

## Systems

# IBM System/360 and System/370 Bibliography

This bibliography identifies and describes all technical publications and related materials needed by those who plan, program, install, and operate the IBM System/360 (Model 25 and above) and the System/370.

Titles, order numbers, current status, Technical Newsletter numbers, an abstract of each item, and graphic library charts are included.

This bibliography is updated regularly to include new publications, revised publications, and abstracts pertaining to this system library.

System/360 Model 20 publications and abstracts are provided in a separate bibliography, order number GA26-3568.

# IBM

Twentieth Edition (August 1972)

This is a major revision of, and supersedes, GA22-6822-18 and all associated SRL Newsletters. The abstract section has been completely updated. The publications selector charts (Library charts) have been updated, renamed, and moved to the back.

Requests for copies of IBM publications should be made to your IBM representative or to the IBM branch office serving your locality.

A form for readers' comments is provided at the back of this publication. If the form has been removed, comments may be addressed to IBM Corporation, Dept. 77A, 1133 Westchester Avenue, White Plains, N.Y., 10604. Comments and suggestions become the property of IBM.

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## Part 1. Subject Code Listings

### TABLE OF SUBJECT CODE DEFINITIONS

00	General System Information (System Summaries, Bibliographies, Configurators)
01	Machine System (CPU, Storage, Channels, Console)
02	Card Readers and/or Punches, Control Units
03	Printers, Control Units
04	OCR, MCR (Optical and Magnetic Character Readers), Control Units
05	Magnetic Tape Units, Control Units
06	Display Equipment
07	DASD (Direct Access Storage Devices), Control Units
08	Other I/O Devices, Control Units
09	Teleprocessing Equipment
10	Auxiliary Equipment (devices normally off-line)
13	Special Features Information
14	Custom Features and Supporting Programs
15	Physical Planning Information
20	Programming Systems – General Information
21	Assembler
22	APL
23	BASIC
24	COBOL
25	FORTRAN
26	ALGOL
28	RPG
29	PL/I
30	Access Methods, Data Management, I/O Control Programs
31	Support Programs (e.g., Link Edit, Loader)
32	Utilities
33	Sort/Merge
34	System Planning, Generation, Installation, System Management Facility (includes Storage or Performance Estimates, Release Guides)
35	Simulation or Emulation (catalogued by host system)
36	Control Program (e.g., Supervisor, Monitor, JCL, Job Management, IPL, Data Areas, Checkpoint/Restart)
37	RAS (Reliability, Availability, Serviceability): testing, service aids, problem determination
38	Remote Job Entry (RJE, CRJE, RAX, CRBE)
39	Time Sharing, Interactive Facilities (e.g., OS with TSO)
40	System Operation
60	Industries – General Information (Industry Bibliographies, etc.)
—	Airlines (see Transportation)
62	Business and Management Services
—	Communications: see Public Utilities (e.g., telephone, communication control) or Media (e.g., text processing)
63	Distribution (e.g., apparel, food, agribusiness)
64	Education
65	Engineering (see also 82 and 83 Cross-Industry)
66	Exploratory
67	Finance
69	Government, Federal
70	Government, State and Local
71	Insurance
72	Manufacturing
—	Mathematics (see 82 Cross-Industry)
73	Media
74	Medical
75	Process (e.g., forest products, petroleum, plastics, textiles)
76	Public Utilities (Utilities and Communications)
—	Securities (see Finance)
78	Transportation
79	Cross-Industry (see also 80-83 for selections)
80	Cross-Industry – Information Management
81	Cross-Industry – Management, Planning, Project Control
82	Cross-Industry – Mathematics and Science
83	Cross-Industry – Simulation
85	Data Processing – Introductory Manuals and Texts
87	Education – Course Catalogs
89	Installation Forms and Supplies
95	EWS (Early Warning System)
97	PTF (Program Temporary Fix) Listings
99	Program Listings

## Preface

For each major IBM data processing system, publications useful in planning, programming, installing and operating that system are assembled in a *system library*.

### **Subject Identification and Filing**

Where a file number (e.g., S360-33) appears on a publication, it identifies the system library in the prefix (S360) and the subject classification in the suffix (33, i.e., sort/merge).

#### **Prefix of File Number**

Publications associated with two system libraries have both in the prefix. Publications applying to more than two libraries have component type if one or two components, GENL if involving no one or two specific components, or TP in the case of generalized teleprocessing.

#### **Subject Code**

The suffix of the file number identifies the subject classification or *code*, such as 22 for APL or 15 for physical planning manuals and templates. The subject code indicates the filing sequence for machine publications, or within operating system, in those libraries organized by file number.

The subject code is also used alone (i.e., independently of the file number prefix) for the identifying and grouping of associated publications. The complete list of subject codes and their definitions is given in a table at the beginning of Part 1 of this bibliography.

### **Organization of Bibliography**

The system bibliography has four parts. Part 1 lists publications by subject. It is organized as shown in the table of contents -- with the publications under most headings being listed, in groups, by subject code.

Part 2 contains abstracts describing each item listed in Part 1.

Part 3 consists of a second listing, in order-number sequence, of all items listed by subject sequence in Part 1.

Part 4 consists of a series of graphic library charts that help to show the associations among publications.

#### **Part 1**

In Part 1, the subject code listing, only one subject code is assigned to a publication; however, a publication is listed under more than one heading if, for example, it applies to more than one programming system.

Items under the same subject code heading are listed in one of several proper sequences, as necessary. Basic sequences include: numeric by machine type for machine publications; alphabetic by program

name for program publications; or alphabetic by title for installation forms and supplies.

In Part 1, the basic eight-position order number of each publication is given. Where it is necessary to distinguish between publications that support different releases of a programming system, order-number suffixes (which identify specific editions of that publication), or the order numbers of supplements to that publication, are also given.

#### **Part 2**

Before ordering copies of publications, check the abstract, in Part 2, to be sure that your installation will require the information. Abstracts are listed in order-number sequence.

#### **Part 3**

Part 3, the list of current editions by order number, shows all recent supplements (Technical Newsletters) as well as all current editions. This part of the bibliography enables you to easily locate and verify the currency of any publication listed, through its edition suffix and any TNLs issued since the latest edition. (For more information on the Technical Newsletter (TNL), see "Updating," below.)

Some publications may exist in several current editions; all are listed, because an early current edition, regularly updated, is exactly the same as the latest current edition.

#### **Part 4**

The library charts in Part 4 provide a graphic aid for quickly finding publications related to specific configurations and programming systems. As a consolidated method of showing various associations among publications or different paths for different requirements, they reduce the time required to chart or check out an appropriate individual library.

### **Order Number**

The publication order number has eight positions, plus one or two positions for the edition suffix. The order number identifies various facts about a publication -- including those described below.

#### **Identification of Availability**

The first character of the order number is the use key, which governs the availability of the document. Use key G means that the item is available to users, through their IBM representative, without charge for relevant items in quantities that meet their normal requirements. Use key S means that the item is for sale through IBM branch offices. Use key L means that the item is available only to licensees for the IBM Program Product or other licensed program.

### Identification of Logic Manuals

Publications that explain program logic normally have a "Y" as the second character of the order number: e.g., SY28-1234-5. (They also include "PLM," "System Manual," "Logic," or similar wording in the title.) Such manuals are intended for use by persons involved in program maintenance or alteration of the program design; they are not required for normal use of operation of the program described.

### Bill of Forms

An order number in the form of GBOF-1234 is a **Bill Of Forms** -- a single order number for a package of several separately-order-numbered documents.

### Identification of Microfiche

An alphabetic character in the third position of an order number identifies a document on microfiche: e.g., S2C0-0301 or LYB0-5432-1. The only exception is a bill of forms, in which the third character is also alphabetic (not zero).

### Identification of Back-Release Support

A "T" or "Q" in the second position is a temporary order number for a publication that supports a re-release or version of a programming system that is prior to the latest release. E.g., GT00-0012-1 or ST28-1234-4.

### Extra Symbols (Flags)

A double asterisk preceding the order number indicates a change in the associated title or order number (such as a new edition) or an additional item.

When more than one edition of a publication is current, the order number suffix is followed by a number sign (#).

A single asterisk following the order number indicates that the item is for IBM World Trade use only.

A plus sign following the order number indicates that the item is for U.S.A. use only.

In a the abstract section (Part 2), \*N identifies a new abstract and \*M identifies a modified abstract.

## Updating

To keep publications current, changes and additions are distributed in the form of Technical Newsletters (TNLs). When the changed pages released in a TNL are inserted in the manual to which it applies, the base publication is brought up to date. The next reprint of the base publication incorporates the TNLs, and is assigned the next higher suffix number, but need not be ordered as it is the same.

### TNL Masthead

The masthead of the TNL cover page includes the order number of the base publication to which the TNL applies. Also, all previously issued TNLs are listed in the masthead so that you may verify receipt of all changes. (Each TNL is separately orderable.)

### Bibliography Revision Schedule

Between revisions, TNLs are issued to update the bibliography. Each TNL will include pages to be added or replaced wherever necessary to reflect the addition, change, or deletion of publications. At regular intervals, the bibliography will be revised to incorporate and merge all new information with that in the previous bibliography edition.

## References

Specialized bibliographies and other supplemental items are listed in Part 1 under appropriate subject codes. Check the following items, and the abstracts that describe them:

*Bibliography Supplement -- Teleprocessing and Data Collection* (GA24-3089), subject code 00.

*Bibliography of Data Processing Techniques* (GF20-8173), subject code 00.

Bibliographies of application publications that pertain to specific industries (*Medical, Media, Finance, State and Local Government, Insurance* and others), subject code 60.

*IBM Marketing Publications KWIC Index* (G320-1621), subject code 85.

*IBM Data Processing Glossary* (GC20-1699), subject code 85.

ORDER  
NUMBER TITLE

MACHINES (00-15)

00 General System Information

GA24-3089 TELE-PROCESSING AND DATA COLLECTION BIBLIOGRAPHY  
GF20-8172 BIBLIOGRAPHY OF DATA PROCESSING TECHNIQUES  
GA22-6810 IBM SYSTEM/360 SYSTEM SUMMARY  
GA22-7001 IBM SYSTEM/370 SYSTEM SUMMARY  
GA24-3511 IBM SYSTEM/360 MODEL 25 CONFIGURATOR  
GA24-3232 IBM SYSTEM/360 MODEL 30 CONFIGURATOR  
GA22-6813 IBM - SYSTEM/360 MODEL 40 CONFIGURATOR  
GA22-6874 IBM SYSTEM/360 MODEL 44 CONFIGURATOR  
GA22-6814 IBM SYSTEM/360 MODEL 50 CONFIGURATOR  
GA22-6887 SYSTEM/360 MODEL 65 CONFIGURATOR  
GA27-2713 IBM SYSTEM/360 MODEL 67 CONFIGURATOR  
GA22-6888 IBM SYSTEM/360 MODEL 75 CONFIGURATOR  
GA22-6920 IBM SYSTEM/360 MODEL 85 CONFIGURATOR  
GA33-3006 IBM SYSTEM/360 MODEL 135 CONFIGURATOR - SYSTEMS LIBRARY  
PUBLICATION  
GA22-6957 IBM SYSTEM/370 MODEL 155 CONFIGURATOR  
GA22-6956 IBM SYSTEM/370 MODEL 165 CONFIGURATOR  
GA22-6944 SYSTEM/360 MODEL 195 CONFIGURATOR  
GA22-6872 IBM 1827 DATA CONTROL UNIT - CONFIGURATOR  
GA22-6823 SYSTEM/360 INPUT/OUTPUT CONFIGURATOR  
GA22-7002 SYSTEM/370 INPUT/OUTPUT CONFIGURATION

01 Machine System

GA22-6821 IBM SYSTEM/360 PRINCIPLES OF OPERATION  
SYSTEMS REFERENCE LIBRARY  
GA22-7000 IBM SYSTEM/370 PRINCIPLES OF OPERATION  
SR20-1078 SYSTEM/360 - 370 OPERATOR'S REFERENCE GUIDE  
GX20-1703 IBM SYSTEM/360 REFERENCE DATA CARD  
GX20-1707 DEBUGGING AID  
DIRECT EVALUATION OF FLOATING POINT NUMBERS IN HEXADECIMAL  
GX20-1850 SYSTEM/370 REFERENCE SUMMARY  
GA24-3572 IBM SYSTEM/360 MODEL 22 FUNCTIONAL CHARACTERISTICS  
SYSTEMS MANUAL  
GA24-3570 IBM SYSTEM/360 MODEL 22 OPERATOR'S GUIDE  
GA24-3579 IBM SYSTEM/360 MODEL 22 CHANNEL CHARACTERISTICS AND  
FUNCTIONAL EVALUATION - SYSTEMS LIBRARY MANUAL  
GA24-3510 IBM SYSTEM/360 MODEL 25 FUNCTIONAL CHARACTERISTICS  
GA24-3538 IBM SYSTEM/360 MODEL 25 CHANNEL CHARACTERISTICS AND  
FUNCTIONAL EVALUATION  
GA24-3523 IBM SYSTEM/360 MODEL 25 OPERATING PROCEDURES  
GA24-3231 IBM SYSTEM/360 MODEL 30 FUNCTIONAL CHARACTERISTICS  
GA24-3411 IBM SYSTEM/360 MODEL 30 CHANNEL CHARACTERISTICS AND  
FUNCTIONAL EVALUATION  
GA24-3373 IBM SYSTEM/360 MODEL 30 OPERATING GUIDE  
GA22-6881 IBM SYSTEM/360 MODEL 40 FUNCTIONAL CHARACTERISTICS  
\*\*GA22-6911 IBM SYSTEM/360 MODEL 40 OPERATING PROCEDURES  
GA22-6875 IBM SYSTEM/360 MODEL 44 FUNCTIONAL CHARACTERISTICS  
GA22-6910 IBM SYSTEM/360 MODEL 44 OPERATING PROCEDURES  
GA22-6898 IBM SYSTEM/360 MODEL 50 FUNCTIONAL CHARACTERISTICS  
GA22-6908 IBM SYSTEM/360 MODEL 50 OPERATING PROCEDURES  
GA22-6884 IBM SYSTEM/360 MODEL 65 FUNCTIONAL CHARACTERISTICS  
GA27-2728 IBM SYSTEM/360 MODEL 65 OPERATING PROCEDURES  
GA27-2719 IBM SYSTEM/360 MODEL 67 FUNCTIONAL CHARACTERISTICS  
GA22-6889 IBM SYSTEM/360 MODEL 75 FUNCTIONAL CHARACTERISTICS  
GA22-6909 IBM SYSTEM/360 MODEL 75 OPERATING PROCEDURES  
GA22-6916 IBM SYSTEM/360 MODEL 85 FUNCTIONAL CHARACTERISTICS  
GA22-6927 IBM SYSTEM/360 MODEL 85 OPERATING PROCEDURES  
GA22-6907 IBM SYSTEM/360 MODEL 91 FUNCTIONAL CHARACTERISTICS  
GA22-6943 IBM SYSTEM/360 MODEL 195 FUNCTIONAL CHARACTERISTICS  
GA22-6954 IBM SYSTEM/360 MODEL 195 OPERATING PROCEDURES  
GA33-3005 IBM SYSTEM/370 MODEL 135 FUNCTIONAL CHARACTERISTICS  
GC38-0005 IBM SYSTEM/370 MODEL 135 OPERATING PROCEDURES - SYSTEM  
LIBRARY MANUAL  
GA33-3010 IBM SYSTEM/370 MODEL 135 CHANNEL CHARACTERISTICS  
SYSTEM LIBRARY MANUAL  
GC20-1738 A GUIDE TO THE SYSTEM/370 MODEL 135  
GC38-0015 OPERATOR'S LIBRARY: IBM SYSTEM/370 MODEL 145 OPERATING  
PROCEDURES  
GA24-3557 IBM SYSTEM/370 MODEL 145 FUNCTIONAL CHARACTERISTICS  
GA24-3573 IBM SYSTEM/370 MODEL 145 CHANNEL CHARACTERISTICS  
GC20-1734 A GUIDE TO THE IBM SYSTEM/370 MODEL 145  
GA22-6942 IBM SYSTEM/370 MODEL 155 FUNCTIONAL CHARACTERISTICS  
GA22-6962 IBM SYSTEM/370 MODEL 155 CHANNEL CHARACTERISTICS  
GA22-6966 IBM SYSTEM/370 MODEL 155 OPERATING PROCEDURES  
GC20-1729 A GUIDE TO THE IBM SYSTEM/370 MODEL 155  
GA22-6935 IBM SYSTEM/370 MODEL 165 FUNCTIONAL CHARACTERISTICS  
GA22-6969 IBM SYSTEM/370 MODEL 165 OPERATING PROCEDURES  
SYSTEM LIBRARY MANUAL  
GC20-1730 A GUIDE TO THE IBM SYSTEM/370 MODEL 165  
GX22-6984 IBM SYSTEM/370 MODEL 165 OPERATORS REFERENCE CARD  
GA22-6877 IBM SYSTEM/360 COMPONENT DESCRIPTIONS AND OPERATING  
PROCEDURES IBM 1052 PRINTER-KEYBOARD MODEL 7 WITH  
IBM 2150 CONSOLE  
GA24-3552 IBM 3210 CONSOLE PRINTER-KEYBOARDS  
GA24-3550 IBM 3215 CONSOLE PRINTER-KEYBOARD COMPONENT DESCRIPTION  
GX26-1587 IBM REFERENCE CARD, DECIMAL/HEXADECIMAL INTEGER  
CONVERSION CHART  
GX26-1588 IBM REFERENCE CARD, DECIMAL/HEXADECIMAL FRACTION  
CONVERSION CHART

02 Card Readers and/or Punches, Control Units

GA21-9025 IBM 1442-N1 AND N2 COMPONENT DESCRIPTION AND OPERATING  
PROCEDURES  
GA21-9026 IBM 2501 MODELS B1 AND B2 COMPONENT DESCRIPTION AND  
OPERATING PROCEDURES  
GA21-9027 IBM 2520-B1, B2, AND B3, COMPONENT DESCRIPTION AND OPERATING  
PROCEDURES  
GA21-9033 IBM SYSTEM/360 COMPONENT DESCRIPTION AND OPERATING  
PROCEDURES IBM 2540 CARD READ PUNCH  
GA21-9144 IBM 2596 CARD READ PUNCH PROGRAMMER'S REFERENCE MANUAL  
AND OPERATOR'S GUIDE - SYSTEMS REFERENCE LIBRARY

ORDER NUMBER	TITLE
GA21-9124	3505 CARD READER 3525 CARD PUNCH SYSTEMS REFERENCE LIBRARY MANUAL
<b>03 Printers, Control Units</b>	
GA24-3073	IBM 1403 PRINTER COMPONENT DESCRIPTION SYSTEMS REFERENCE LIBRARY MANUAL
GA24-1446	IBM 1404 PRINTER
GA24-3120	IBM 1443 PRINTER MODELS 1 TO 4 AND N1
GA24-3543	IBM 1445 PRINTER MODELS 1 AND N1 COMPONENT DESCRIPTION IBM 3211 PRINTER 3216 INTERCHANGEABLE TRAIN CARTRIDGE AND 3811 PRINTER CONTROL UNIT COMPONENT DESCRIPTION AND OPERATOR'S GUIDE
GA24-3488	FORM DESIGN REFERENCE GUIDE FOR PRINTERS
<b>04 OCR AND MCR, Control Units</b>	
GA24-1499	IBM 1219 READER SORTER IBM 1419 MAGNETIC CHARACTER READER
GA19-0084	IBM 1219 READER SORTER, MODEL 32 IBM 1419 MAGNETIC CHARACTER READER, MODEL 32 SYSTEMS REFERENCE LIBRARY MANUAL
GA21-9031	IBM SYSTEM/360 COMPONENT DESCRIPTION AND OPERATING PROCEDURES: 1231-N1
GA24-3542	IBM 1255 MAGNETIC CHARACTER READER MODELS 1, 2, AND 3 COMPONENT DESCRIPTION
GA24-3500	IBM 1259 MAGNETIC CHARACTER READER COMPONENT DESCRIPTION
GA19-0036	PAPER AND PRINT QUALITY REQUIREMENTS FOR IBM 1270 AND 1275 OPTICAL READER SORTERS
GA19-0034	IBM 1275 OPTICAL READER SORTER FOR SYSTEM/360 AND SYSTEM/370
GA24-3256	IBM 1285 OPTICAL READER COMPONENT DESCRIPTION AND OPERATING PROCEDURES
GA21-9064	IBM SYSTEM/360 COMPONENT DESCRIPTION AND OPERATING PROCEDURES IBM 1287 OPTICAL READER
GA21-9139	GENERAL INFORMATION MANUAL IBM 1287 MODEL V
GX20-1741	IBM 1287 OPTICAL READER DOCUMENT TRACING GUIDE
GX20-1759	IBM 1287 OPTICAL READER DESIGN FORMATS
GA21-9081	IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 1288 OPTICAL PAGE READER MODEL 1
GX21-9186	IBM 1288 DOCUMENT GAUGE FOR MACHINE SETUP
GA24-1421	IBM 1412 MAGNETIC CHARACTER READER MODEL 1
GA24-1452	PRINT QUALITY CONSIDERATIONS IBM 1418 AND IBM 1428
GA24-1473	IBM 1418 OPTICAL CHARACTER READER
GA19-0023	IBM 1428 ALPHANERIC OPTICAL READER IBM 1419 MODEL 32 ATTACHED TO IBM SYSTEM/360 MODEL 25, 30, 40, 50, AND 65 SYSTEMS REFERENCE LIBRARY MANUAL
GA21-9027	IBM 2520-B1, B2, AND B3, COMPONENT DESCRIPTION AND OPERATING PROCEDURES
GC20-1751	IBM 3801 OPTICAL MARK READER SYSTEMS DESIGN GUIDE
<b>05 Magnetic Tape Units, Control Units</b>	
GA22-6866	IBM SYSTEM/360 COMPONENT DESCRIPTION 2400 SERIES MAGNETIC TAPE UNITS 2803/2804 TAPE CONTROLS AND 2816 SWITCHING UNIT, MODEL 1
GX22-6837	2401 - 2404 AND 2415 MAGNETIC TAPE UNITS
GX35-5001	IBM SYSTEM/360/370 REFERENCE DATA 2401-2404, 2415, 2420, AND 3420 MAGNETIC TAPE UNITS
GA32-0006	TAPE SPECIFICATIONS FOR IBM ONE-HALF INCH TAPE DRIVES AT: 556 AND 800 BPI AND 3200 FCI
GA32-0007	COMPONENT DESCRIPTION IBM 2420 MODEL 5 MAGNETIC TAPE UNIT
GA27-2726	IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2495 TAPE CARTRIDGE READER
GA32-0015	IBM 3410/3411 MAGNETIC TAPE SUBSYSTEM COMPONENT SUMMARY MANUAL
GA32-0020	3803/3420 MAGNETIC TAPE SUBSYSTEMS
GA22-6828	IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 7340 MODEL 3 HYPERTAPE DRIVE
<b>06 Display Equipment</b>	
GA27-2701	IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2250 DISPLAY UNIT MODEL 1
GA27-2702	IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2250 DISPLAY UNIT MODEL 2 IBM 2840 DISPLAY CONTROL MODEL 1
GA27-2721	IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2250 DISPLAY UNIT MODEL 3 IBM 2840 DISPLAY CONTROL MODEL 2
GC20-1688	IBM 2260 DISPLAY STATION OPERATOR MANUAL
GA27-2700	IBM SYSTEM/360 COMPONENT DESCRIPTION: IBM 2260 DISPLAY STATION IBM 2840 DISPLAY CONTROL
GA27-2731	IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2265 DISPLAY STATION IBM 2845 DISPLAY CONTROL
GA27-2730	COMPONENT DESCRIPTION IBM 2285 DISPLAY COPIER
GA27-2739	AN INTRODUCTION TO THE IBM 3270 INFORMATION DISPLAY SYSTEM
GA27-2742	OPERATOR'S GUIDE FOR IBM 3270 INFORMATION DISPLAY SYSTEM
GA27-2749	IBM 3270 INFORMATION DISPLAY SYSTEM COMPONENT DESCRIPTION SYSTEM LIBRARY MANUAL
**GA27-2750	IBM 3270 PROBLEM DETERMINATION GUIDE - SYSTEM LIBRARY MANUAL
<b>07 DASD, CONTROL UNITS</b>	
GA26-3633	DATA CELL HANDLING GUIDE
GA26-5756	IBM DISK PACK AND CARTRIDGE HANDLING PROCEDURES
GA22-6895	IBM SYSTEM/360 COMPONENT DESCRIPTIONS - 2820 STORAGE CONTROL AND 2301 DRUM STORAGE
GX20-1710	IBM 2314 DIRECT ACCESS STORAGE FACILITY CAPACITY AND TRANSMISSION TIME REFERENCE CARD
GX20-1717	IBM 2301 DRUM STORAGE
GX20-1705	IBM 2311 DISK CELL DRIVE REFERENCE CARD
GA26-3599	IBM SYSTEM/360 COMPONENT DESCRIPTIONS - 2314 DIRECT ACCESS STORAGE FACILITY AND 2844 AUXILIARY STORAGE CONTROL
GX20-1710	IBM 2314 DIRECT ACCESS STORAGE FACILITY CAPACITY AND TRANSMISSION TIME REFERENCE CARD

ORDER NUMBER	TITLE
GA26-1686	IBM 2319 DISK STORAGE - A-SERIES, COMPONENT DESCRIPTION
GX28-1744	IBM 2321 DATA CELL DRIVE
GA26-1589	COMPONENT SUMMARY-2835 STORAGE CONTROL 2385 FIXED HEAD STORAGE
GA26-5988	IBM SYSTEM/360 COMPONENT DESCRIPTIONS--2841 AND ASSOCIATED DASD 2311 DISK STORAGE DRIVE MODEL 1, 2321 DATA CELL DRIVE, 2383 DRUM STORAGE
GA26-1592	REFERENCE MANUAL FOR IBM 2820 STORAGE CONTROL AND IBM 3330 DISK STORAGE - SYSTEMS REFERENCE LIBRARY
<u>08 Other I/O Devices, Control Units</u>	
GA22-6868	IBM SYSTEM/360 - COMPONENT DESCRIPTION, IBM 1827 DATA CONTROL UNIT
GA24-3388	IBM 2671 PAPER TAPE READER, IBM 2822 PAPER TAPE READER CONTROL - COMPONENT DESCRIPTION
GA24-3312	IBM 2821 CONTROL UNIT
GA33-4588	IBM SYSTEM/360 COMPONENT DESCRIPTIONS - 2826 PAPER TAPE CONTROL UNIT 1817 PAPER TAPE READER 1818 PAPER TAPE PUNCH
GA36-0882	IBM 4481 FILM READER/RECORDER
GA36-0883	4481 FILM READER/RECORDER PROGRAMMER'S GUIDE
<u>09 Teleprocessing Equipment</u>	
GA22-6864	IBM 2781 DATA ADAPTER UNIT COMPONENT DESCRIPTION
GA22-6846	IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2782 TRANSMISSION CONTROL
GA27-2783	IBM 2783 TRANSMISSION CONTROL COMPONENT DESCRIPTION
GA27-2784	IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2711 LINE ADAPTER UNIT
GA24-3426	IBM 2712 REMOTE MULTIPLEXOR
GA27-3829	2721 PORTABLE AUDIO TERMINAL
GA27-3839	IBM 2721 PORTABLE AUDIO TERMINAL OPERATOR'S HANDBOOK
GA27-3811	IBM 2760 OPTICAL IMAGE UNIT COMPONENT DESCRIPTION
GA27-3848	IBM 3678 BROKERAGE COMMUNICATION SYSTEM SYSTEM CONCEPTS AND CONFIGURATOR
GA27-3858	IBM 3678 BROKERAGE COMMUNICATION SYSTEM COMPONENT DESCRIPTION MANUAL
GA27-3851	INTRODUCTION TO THE 3785 COMMUNICATIONS CONTROLLER
*GC38-3884	IBM 3785 COMMUNICATIONS CONTROLLER PRINCIPLES OF OPERATION - SYSTEM LIBRARY MANUAL
GA27-3843	IBM 3735 PROGRAMMABLE BUFFERED TERMINAL CONCEPT AND APPLICATION
GA27-3863	COMPONENT INFORMATION FOR THE IBM 3788 DATA COMMUNICATION TERMINAL
GA19-8818	IBM 3944 DIAL TERMINAL SYSTEMS REFERENCE LIBRARY MANUAL
GA27-2712	COMPONENT DESCRIPTION: IBM 7778 AUDIO RESPONSE UNIT MODEL 3 MODEL 1, 2, AND 3
GA27-2718	IBM 7772 AUDIO RESPONSE UNIT VOCABULARY
GA27-2711	IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 7772 AUDIO RESPONSE UNIT
<u>10 Auxiliary Equipment</u>	
GA22-6951	IBM 58 MAGNETIC DATA INSCRIBER OPERATOR'S GUIDE
GA27-2725	IBM 58 MAGNETIC DATA INSCRIBER COMPONENT DESCRIPTION
<u>11 Special Features</u>	
GA22-6892	IBM SYSTEM/360 SPECIAL FEATURE CHANNEL-TO-CHANNEL ADAPTER
GA22-6983	SYSTEM/378 SPECIAL FEATURE: CHANNEL-TO-CHANNEL ADAPTER SYSTEM LIBRARY MANUAL
GA24-3512	IBM SYSTEM/360 MODEL 25 1481/1468 AND 1448 COMPATIBILITY FEATURES
GA24-3524	IBM SYSTEM/360 MODEL 25 MODEL 28 MODE FEATURE
GA24-3526	IBM SYSTEM/360 MODEL 25 INTEGRATED COMMUNICATIONS ATTACHMENT FEATURE
GA19-8819	IBM SYSTEM/360 MODEL 38 1481/1448/1468 COMPATIBILITY FEATURE INVERTED PRINT EDIT AND STERLING SUB-FEATURES SYSTEMS REFERENCE LIBRARY MANUAL
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GA24-3365	IBM SYSTEM/360 MODEL 38 1628 COMPATIBILITY FEATURE
GC28-1658	IBM SYSTEM/360 MODEL 38 1481 COMPATIBILITY MODE OPERATOR'S MANUAL
GX28-1758	IBM SYSTEM/360 MODEL 38 1481/1448/1468 COMPATIBILITY FEATURE REFERENCE CARD
GA22-6988	DATA ACQUISITION SPECIAL FEATURES FOR THE IBM SYSTEM/360 MODEL 44
GA27-2717	IBM SYSTEM/360 SPECIAL FEATURE DESCRIPTION 7874 COMPATIBILITY FEATURE FOR SYSTEM/360 MODELS 58 AND 65
GA27-2716	IBM SYSTEM/360 SPECIAL FEATURE DESCRIPTION 7888 COMPATIBILITY FEATURE FOR SYSTEM/360 MODEL 65
GA27-2715	IBM SYSTEM/360 SPECIAL FEATURE DESCRIPTION 789/7848/7844/7898/7894/7894 II COMPATIBILITY FEATURE FOR SYSTEM/360 MODELS 65 AND 67
GA27-2733	IBM SYSTEM/360 SPECIAL FEATURE DESCRIPTION 789/7898/7894/7894 II COMPATIBILITY FEATURE FOR IBM SYSTEM/360 MODEL 85
GA33-3007	IBM SYSTEM/370 MODEL 135 - TERMINAL ADAPTER TYPE I MODEL II, FOR INTEGRATED COMMUNICATIONS ADAPTER: SPECIAL FEATURE DESCRIPTION MANUAL
GA33-3888	IBM SYSTEM/370 MODEL 135 - TERMINAL ADAPTER TYPE III, FOR INTEGRATED COMMUNICATIONS ADAPTER: SPECIAL FEATURE DESCRIPTION MANUAL
GA33-3889	IBM SYSTEM/370 MODEL 135 SYNCHRONOUS DATA ADAPTER TYPE II, (FOR ICA): SPECIAL FEATURE DESCRIPTION SYSTEM LIBRARY MANUAL
GA22-6955	IBM SYSTEM/378 SPECIAL FEATURE DESCRIPTION: 789/7898/7894/7894 II COMPATIBILITY FEATURE FOR IBM SYSTEM/378 MODEL 165
GA22-6958	IBM SYSTEM/378 SPECIAL FEATURE DESCRIPTION: 7878/7874 COMPATIBILITY FEATURE FOR IBM SYSTEM/378 MODEL 165
GA22-6963	IBM SYSTEM/378 SPECIAL FEATURE DESCRIPTION 7888 COMPATIBILITY FEATURE FOR IBM SYSTEM/378 MODEL 165
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GA24-3881	MARK READ STATION (SLANTED MARK) FOR IBM 1418 AND IBM 1428

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GA24-3564	IBM SYSTEM/360 MODEL 30 STORAGE EXPANSION FEATURE MANUAL: RPQ'S EA3807, EA1527; OR RPQ'S Y91283 AND Y91325 (WORLD TRADE)
GL22-6902	IBM SYSTEM/360 MODEL 40 SUM OF PRODUCTS INSTRUCTION - RPQ W12561 SPECIAL SYSTEMS FEATURE
GL22-6903	IBM SYSTEM/360 MODEL 40, HALFWORD TRANSLATE INSTRUCTION - RPQ W13462 SPECIAL SYSTEMS FEATURE
GL22-6904	IBM SYSTEM/360 MODEL 40, TABLE ADDRESS CHAINING - RPQ W13518 SPECIAL SYSTEMS FEATURE
GA21-9070	IBM 1050 SPECIAL FEATURES DESCRIPTION, IBM ASCII DATA COMMUNICATION SYSTEM WITH RPQ FEATURES P18589, 82027, 842028, AND 842029
GA27-3040	CUSTOM UNIT DESCRIPTION - 1970-1 REMOTE AUDIO RESPONSE UNIT
GA26-3699	IBM 1971-1980 CUSTOM TERMINAL FUNCTIONAL CHARACTERISTICS, OPERATING PROCEDURES, AND PHYSICAL PLANNING
GA24-3590	IBM 1972 MODEL 3 PRODUCTION TERMINAL 1972 MODEL 4 INSTRUCTION CONSOLE OPERATOR'S GUIDE
GA26-5714	IBM 2314/2844 MULTIPLEX STORAGE CONTROL FEATURE - AIRLINES BUFFER
GL21-9071	IBM 2501 CARD READER, MODELS A AND B RPQ FEATURES
GC50-0001	IBM 2701 DATA ADAPTER UNIT AND ASCII AUTODIN ADAPTER (RPQ P16124): PRINCIPLES OF OPERATION
GC26-3767	IBM 2740/2968 AUDIO-VISUAL CONTROL USER'S GUIDE RPQ NUMBER P30209
GL27-3022	CUSTOM SYSTEM DESCRIPTION: IBM 2740-1/2950-2 BATCH BUFFER TERMINAL SYSTEMS REFERENCE LIBRARY MANUAL
SY26-3766	IBM 2740/2968 AUDIO-VISUAL CONTROL PROGRAM LOGIC MANUAL RPQ NUMBER P30209
GL27-3009	2905 REMOTE MULTIPLEXER COMPONENT DESCRIPTION
GA27-2737	IBM 2909-3 ASYNCHRONOUS DATA CHANNEL RPQ P13299 CUSTOM FEATURE DESCRIPTION
GL22-6871	IBM SYSTEM/360 2911 MANUAL SWITCHING UNIT MODELS 1, 2, and 5 AND 2989 REMOTE SWITCHING CONSOLE SPECIAL SYSTEMS FEATURE
GL22-6937	IBM SYSTEM/360 CUSTOM FEATURE DESCRIPTION 2914 SWITCHING UNIT MODEL 1 - RPQ 880882
GL24-3597	IBM 2922 PROGRAMMABLE TERMINAL (RPQ 810563, 810564 AND 810565) COMPONENT DESCRIPTION AND OPERATING PROCEDURES AND 810565) COMPONENT DESCRIPTION AND OPERATING PROCEDURES
GL24-3591	IBM 2927 TAPE-TO-PRINTER UNIT RPQ 812390 & 812391 COMPONENT DESCRIPTION
GL22-6890	SPECIAL SYSTEMS FEATURE BULLETIN, IBM 2930 MODEL 001, TAPE INTERSYSTEM CONNECTING UNIT - RPQ M22146
GL22-6901	IBM 2937 MODELS 1, 2, AND 3, MULTIPLIER-SUMMATION PROCESSOR, SPECIAL SYSTEM FEATURE, RPQ 880626
GA24-3519	IBM SYSTEM/360 CUSTOM EQUIPMENT DESCRIPTION: 2938 ARRAY PROCESSOR (MODEL 1, RPQ W24563; MODEL 2, RPQ 815188) SYSTEMS REFERENCE LIBRARY MANUAL
GL24-3570	IBM 2946 TERMINAL CONTROL SUBSYSTEM COMPONENT DESCRIPTION AND OPERATING GUIDE
GC88-6796	IBM 2947-4 CHECK COLLECTION CONTROLLER (RPQ #888264) SEQUENTIAL ACCESS METHOD (CSAM) MAIN MODULE-DOS MICROFICHE LISTING
GC88-6797	IBM 2947-4 CHECK COLLECTION CONTROLLER (RPQ #888264) SEQUENTIAL ACCESS METHOD (CSAM) ERR MODULE-DOS MICROFICHE LISTING - PROGRAM NUMBER 5799-WAF
GC28-6687	USER'S GUIDE FOR THE IBM 2947-4 CHECK COLLECTION CONTROLLER SEQUENTIAL ACCESS METHOD PROGRAM SUPPORTING RPQ 888264 PROGRAM NUMBERS 5799-WAF, 5799-WAG
GL22-6979	IBM 2947 MODEL 4 CHECK COLLECTION CONTROLLER (RPQ 888264) FUNCTIONAL CHARACTERISTICS - REFERENCE MANUAL
GC88-6798	IBM 2947-4 CHECK COLLECTION CONTROLLER (RPQ #888264) SEQUENTIAL ACCESS METHOD (CSAM) MAIN MODULE-OS MICROFICHE LISTING - PROGRAM NUMBER 5799-WAG
GC88-6799	IBM 2947-4 CHECK COLLECTION CONTROLLER (RPQ #888264) SEQUENTIAL ACCESS METHOD (CSAM) ERR MODULE-OS MICROFICHE LISTING - PROGRAM NUMBER 5799-WAG
GY28-6688	INTERNAL LOGIC MANUAL FOR THE IBM 2947-4 CHECK COLLECTION CONTROLLER SEQUENTIAL ACCESS METHOD - PROGRAM SUPPORT RPQ 888264 - PROGRAM NUMBERS 5799-WAF 5799-WAG
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GA26-1599	IBM 2730 MODEL 1 TRANSACTION VALIDATION TERMINAL, IBM 2968 MODEL 9 AND MODEL 12 RECEIVER-TERMINAL CONTROL UNIT
GA26-1593	IBM 2968 MODEL 11 AUDIO/VISUAL CONTROL: COMPONENT DESCRIPTION AND OPERATING PROCEDURES RPQ P30209
GL22-6940	IBM 2969 PROGRAMMABLE TERMINAL INTERCHANGE MODEL 1--RPQ888117
GC28-6709	IBM 2969 PROGRAMMABLE TERMINAL INTERCHANGE MODEL 1 CONTROL PROGRAM OPERATOR'S GUIDE SUPPORTING RPQ 888117
GC28-6711	IBM 2969 PROGRAMMABLE TERMINAL INTERCHANGE MODEL 1 CONTROL PROGRAM USER'S GUIDE SUPPORTING RPQ 888117
SY28-6746	IBM 2969 PROGRAMMABLE TERMINAL INTERCHANGE MODEL 1 CONTROL PROGRAM DESIGN SPECIFICATIONS SUPPORTING RPQ 888117
GL19-0003	CUSTOM SYSTEM DESCRIPTION: IBM 2970 MODEL 8 BANK TERMINAL, RPQ 858230
GA26-5993	IBM SYSTEM/360 CUSTOM FEATURE, 2972 LINE CONTROL UNIT, MODEL 1
GA26-1583	IBM SYSTEM/360 CUSTOM FEATURE DESCRIPTION - 2973 MODEL 2 FILE SWITCH RPQ P13209
GA27-2740	IBM 7412 MODEL 1 CONSOLE, CUSTOM SYSTEMS RPQ AA2846, CUSTOM FEATURE DESCRIPTION
GL22-6960	IBM RESERVATION SYSTEM CUSTOM FEATURE DESCRIPTION

#### 15 Physical Planning

GC22-6820	IBM SYSTEM/360 INSTALLATION MANUAL - PHYSICAL PLANNING
GC19-0001	IBM SYSTEM/360 INSTALLATION MANUAL - PHYSICAL PLANNING IBM WORLD TRADE 50-HERTZ REQUIREMENTS
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GX22-6905	PHYSICAL PLANNING TEMPLATE SYSTEM/360 MODEL 67
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GX22-6924	PHYSICAL PLANNING TEMPLATE SYSTEM/360 MODEL 65 MULTISYSTEM
GX22-6925	IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 AND SYSTEM/370 FIELD ENGINEERING FURNITURE AND TEST EQUIPMENT SYSTEM/360 SYSTEM/370 TEST EQUIPMENT ANALYZER FURNITURE BASIC STORAGE MODULE DATA ADAPTER UNIT
GX22-6981	IBM PHYSICAL PLANNING TEMPLATE SYSTEM/360 MODEL 195
GC19-0004	IBM SYSTEM/370 WORLD TRADE INSTALLATION MANUAL--PHYSICAL PLANNING - SYSTEMS REFERENCE LIBRARY
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GX22-6985	IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 AND SYSTEM/370 CHANNELS: 2860, 2870, AND 2880
GX22-7005	IBM PHYSICAL PLANNING TEMPLATE SYSTEM/370 MODEL 145
GX22-7006	IBM PHYSICAL PLANNING TEMPLATE SYSTEM/370 MODEL 155
GX22-7007	IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/370 MODEL 165
GX22-7008	IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/370 MODEL 135
GL22-6928	IBM AIRLINES RESERVATION SYSTEM, REMOTE EQUIPMENT INSTALLATION MANUAL - PHYSICAL PLANNING
GA24-3561	IBM 1925 MODEL 18 INTERFACE SWITCH UNIT RPQ 811301 INSTALLATION MANUAL--PHYSICAL PLANNING
GA27-3041	IBM 1970 MODEL 1 REMOTE AUDIO RESPONSE UNIT INSTALLATION MANUAL - PHYSICAL PLANNING
**GA24-3566	IBM 1972 MODEL 3 PRODUCTION TERMINAL IBM 1972 MODEL 4 INSTRUCTION CONSOLE INSTALLATION MANUAL PHYSICAL PLANNING COMPONENT DESCRIPTION
GC22-6939	IBM SYSTEM/360 SPECIAL FEATURE: 2680 CRT PRINTER INSTALLATION MANUAL PHYSICAL PLANNING
GA26-1600	2730 MODEL 1, 2968 MODEL 9, AND 2968 MODEL 12: INSTALLATION MANUAL - PHYSICAL PLANNING
GL27-3025	IBM 2700-1/2950-2 BATCH BUFFER TERMINAL INSTALLATION MANUAL - PHYSICAL PLANNING
GL27-3010	IBM SYSTEM/360 CUSTOM SYSTEMS UNIT 2905 REMOTE MULTIPLEXER, 2906 TRANSMISSION CONTROL, INSTALLATION MANUAL - PHYSICAL PLANNING
GA27-2727	IBM SYSTEM/360 CUSTOM SYSTEMS UNIT 2909 MODEL 3 - ASYNCHRONOUS DATA CHANNEL RPQ F13299 RPQ 882045 INSTALLATION BULLETIN-PHYSICAL PLANNING
GC22-6922	IBM 2911 MODELS 1, 2, AND 5 AND IBM 2989 MODEL 8, INSTALLATION MANUAL - PHYSICAL PLANNING
GA24-3562	IBM 2911 MODEL 14 INTERFACE SWITCH UNIT RPQ 811503 INSTALLATION MANUAL--PHYSICAL PLANNING
GL22-6936	IBM 2914 SWITCHING UNIT MODEL 1, RPQ 880882, CUSTOM FEATURE: INSTALLATION MANUAL - PHYSICAL PLANNING
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GL22-6945	IBM 2969 PROGRAMMABLE TERMINAL INTERCHANGE MODEL 1, RPQ 888117 - INSTALLATION MANUAL - PHYSICAL PLANNING
GA27-2729	IBM SYSTEM/360 CUSTOM SYSTEMS UNIT 2972 MODEL 7 SCIENTIFIC INTERFACE CONTROL UNIT RPQ E46181 INSTALLATION BULLETIN - PHYSICAL PLANNING
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**PROGRAMMING - GENERAL (20-40)**

**20 Programming Systems - General Information**

GC20-1619 CATALOG OF PROGRAMS FOR IBM SYSTEM/360 MODELS 25 AND ABOVE

**23 BASIC**

GC20-6837 BASIC LANGUAGE REFERENCE MANUAL

**24 COBOL**

GC20-6395 IBM SYSTEM/360 COBOL DIFFERENCES USA STANDARD COBOL CONVERSION

GC20-6559 IBM SYSTEM/360 CONVERSION AIDS: COBOL LANGUAGE CONVERSION PROGRAM FOR THE IBM 1401, PROGRAM NUMBER 1401-CB-701

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GC28-6560	IBM SYSTEM/360 TRANSITION AIDS: FORTRAN II LANGUAGE CONVERSION PROGRAM (1401-FO-702) FOR THE IBM 1401
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GC26-3564	IBM SYSTEM/360 CONVERSION AIDS: THE 1401/1440/1460 TAPE OVERLAP EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 30, PROGRAM NUMBER 360C-EU-097
GY27-7126	IBM SYSTEM/360 MODEL 30 1620 EMULATOR PROGRAM PROGRAM LOGIC MANUAL PROGRAM NUMBER 360C-EU-731
GC28-6561	IBM SYSTEM/360 CONVERSION AIDS: THE 1401/1460 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 40, PROGRAM NUMBER 360C-EU-074 SYSTEMS REFERENCE LIBRARY
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GY27-7103	IBM SYSTEM/360 CONVERSION AIDS: THE 1401/1460 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 40 PROGRAM LOGIC MANUAL
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GY27-7117	IBM SYSTEM/360 CONVERSION AIDS: THE 7070/7074 SIMULATOR FOR IBM SYSTEM/360, PROGRAM NUMBER 360C-SI-753 PROGRAM LOGIC MANUAL
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21 ASSEMBLER

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24 COBOL

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GN28-0264	X	X	X	X	X	
GN28-0426	X	X	X			
GC28-6380-3	X	X	X	X	X	COBOL (F) Programmer's Guide
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GY28-6393		X	X	X	X	
GY28-6398		X	X	X	X	
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25 FORTRAN

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GN27-1316	X	X	X	X	X	FORTRAN IV Subroutines for Data Transmission between S/360 and a 1130 System
GN30-2534	X	X	X			
GC28-6819-0	X	X	X	X		Language Handbook for Conversion from 7090/7094 FORTRAN IV
GC28-6818-0	X	X	X	X		FORTRAN IV Library-Mathematical and Service Subprograms
GN28-0589	X	X	X	X		
GC33-2002-1	X	X	X	X	X	Conversion Aids: FORTRAN IV to PL/I
GN33-7002	X	X	X	X	X	Language Conversion Program for OS
GN33-7004	X	X	X	X	X	
GN33-7007	X	X	X	X	X	
GY27-7152-2	X	X	X	X		Graphic Subroutine Package for FORTRAN IV, COBOL and PL/I PLM
GN27-1334	X					
GY27-7161-0	X	X	X	X		S/360 and 1130 Disk Monitor System Data Transmission for FORTRAN PLM
GY27-7194	X	X	X	X		
GY28-6601-2	X	X	X	X	X	FORTRAN IV (E) Compiler PLM
GY28-6383	X	X	X	X	X	
GY28-6819	X	X	X	X	X	
GY28-6827	X	X	X	X	X	
GY28-6828	X	X	X	X	X	
GY33-7000-0	X	X	X	X	X	FORTRAN IV to PL/I Language Conversion for OS PLM
GN33-7008	X	X	X	X		
GY28-6638-1	X	X	X	X	X	FORTRAN IV (G) Compiler PLM
GY28-6826	X	X	X	X	X	
GY28-6829	X	X	X	X	X	
GY28-6847	X	X	X	X	X	
GY28-6642-4	X	X	X	X	X	FORTRAN IV (H) Compiler PLM
GN28-0594	X	X	X	X	X	
GY28-6831-2	X	X				FORTRAN IV Syntax Checker PLM
GT68-6831-0			X	X		

26 ALGOL

GC33-2001-1	X	X	X	X		Conversion aids - ALGOL TO PL/I Language
GN33-7001	X	X	X	X		Conversion Program for OS
GN33-7003	X	X	X	X		
GC28-6615-3	X		X	X		ALGOL Language
GT00-0013-0		X	X	X		

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GC33-4000-3	X					ALGOL Programmer's Guide
GT00-0037-0			X	X	X	
GN33-8091			X	X		
GY33-8000-0	X	X	X	X		ALGOL (F) Compiler PLM
GN33-8129	X					
GY33-8001			X	X	X	
GY33-8003			X	X	X	
GY33-7006-0	X	X	X	X	X	ALGOL to PL/I Language Conversion for OS PLM
 <u>28 RPG</u>						
GC24-3337-5	X	X	X	X	X	Report Program Generator Program
GY26-3704-0	X	X	X	X	X	RPG - PLM
GY21-0006	X	X	X	X	X	
GY21-0011	X	X	X	X	X	
 <u>29 PL/I</u>						
GC28-6590-2	X	X	X	X	X	PL/I Subroutine Library Computational Subroutines
GC28-6594-8	X					PL/I (F) Programmer's Guide
GT00-0068		X	X	X		
GN33-6020		X	X			
GT28-6594-6					X	
GN33-6016					X	
GC28-8201-3	X	X	X	X	X	PL/I (F) Language Reference Manual
GN33-6019	X	X	X	X	X	
GN33-6021	X	X	X	X		
GY28-6800-5	X	X	X	X	X	PL/I (F) Compiler PLM
GY28-6801-5	X	X	X	X	X	PL/I Subroutine Library PLM
GN33-6017	X	X	X	X	X	
GY33-6018	X	X	X	X		
GY33-8009-0	X	X	X	X	X	PL/I Syntax Checker PLM
GN33-8109	X	X				
 <u>30 ACCESS METHODS, DATA MANAGEMENT, I/O CONTROL PROGRAMS</u>						
GY28-6617-6	X					Basic Direct Access Methods PLM
GT00-0054-0		X				
GT68-6617-4				X	X	
GN26-8007				X		
GY28-6606-3	X					Catalog Mgmt PLM
GT00-0049-0		X	X	X	X	
GN26-8006		X	X	X		
GY35-0002		X				
GY35-0007					X	
GC26-3794-0	X					OS Data Management Macro Instructions
GC26-3746-1		X				Data Management Services
GT00-0002-0		X	X			
GN26-0624		X				
GN26-0631		X				
GC28-6550-10	X					Data Management for System Programmers
GY28-6607-8		X				Direct Access Device Space Mgmt PLM
GT00-0050-0		X				
GT68-6607-6				X	X	
GN26-8012				X		
GC27-6950-0	X	X	X	X	X	Planning for Display Operator Consoles
GN27-1336	X	X	X	X	X	
GC27-6933-3	X	X	X	X	X	User's Guide for Job Control from the IBM 2250 Display Unit
GN27-1371	X					
GC27-6938-1	X	X	X	X	X	S/360 & 1130 Disk Monitor System: User's Guide
GN27-1315	X	X	X	X	X	for Job Control from a 2250 Display Unit attached
GN27-1330	X	X	X	X	X	to an 1130 System with a fixed number of Tasks MFT
GN27-1370	X					
GY27-7113-6	X					Graphic Access Method PLM

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GT00-0040-0			X	X	X	
GY27-7110-1	X	X	X	X	X	Graphics Problem Oriented Routines PLM
GC27-6909-5	X	X	X	X	X	Graphic Programming Services for 2250 Display Unit
GN27-1328	X	X	X	X	X	
GN27-1366	X					
GC27-6912-8	X					Graphic Programming Services for 2260 Display
GT00-0004-0		X	X	X	X	Station (Local Attachment)
GC27-6927-0	X	X	X	X	X	Graphic Programming Services for 2280 & 2282 File Units
GC27-6932-3	X	X	X	X	X	Graphic Subroutine Package for FORTRAN IV, COBOL and PL/I
GN27-1313	X	X	X	X	X	
GN27-1331	X					
GY28-6618-5	X					Indexed Sequential Access Methods PLM
GT00-0055-0		X				
GT68-6618-3				X	X	
GN26-8001				X	X	
GY28-6616-9	X					Input/Output Suprv. PLM
GT00-0053-0		X				
GT68-6616-7				X	X	
GN26-8013				X		
GY28-6609-6	X					S/360 Input/Output Support Open/Close/EOV PLM
GT00-0051-0		X	X			
GN26-8015		X				
GT68-6609-4					X	
GY28-6604-5	X					Sequential Access Method PLM
GT00-0048-0		X				
GT68-6604-3				X	X	
GN26-8009				X		
GC28-6680-4	X					Tape Labels
GT00-0019-0			X	X		
GN26-0625			X			
GT28-6680-2					X	
GN30-2551	X	X				
GC30-2004-5	X	X	X			BTAM
GN30-2551	X	X	X			
GN30-2563	X	X			X	
GN30-2568	X	X				
GY30-2001-5	X					BTAM PLM
GN30-2569	X					
GN30-2570	X					
GN30-2571	X					
GT00-0069-0	X	X	X	X	X	
GY30-2552	X	X	X			
GY30-2564	X	X				
GC30-2005-3	X	X				QTAM Message Control Program
GT30-2005-2		X	X	X		
GN30-2526		X	X	X		
GN30-2556		X	X	X		
GC30-2003-4	X	X	X	X		QTAM Message Processing Programs
GT30-2003-3		X	X	X		
GN30-2532		X	X	X		
GY30-2002-2	X	X	X	X	X	QTAM PLM
GY30-2527	X	X	X	X	X	
GC30-2022-0	X	X	X			TCAM Concepts & Facilities
GN30-2561	X					
GC30-2020-0		X	X	X		Planning for TCAM
GC30-2024-2	X	X				TCAM Programmer's Guide and Reference Manual
GT00-0070-0		X				
GC30-2024-0			X			
GN30-2558			X			
GC30-2028-0	X	X	X			Planning for TCAM with the 3705 Communications Controller
GY30-2029-2	X					TCAM PLM
GT00-0065-0		X	X			
GN30-2566		X				
GT60-2029-0				X		
GY30-2027-0	X	X	X			TCAM Serviceability Aids PLM
GC30-2025-0	X					TCAM User's Guide
GC30-2026-0	X	X	X			OS Conversion Guide from QTAM or BTAM to TCAM
GN30-2562	X	X	X			
GC26-5929-6	X	X	X	X		1130 Subroutine Library
GC21-5004-2	X					IBM 1285, 1287, and 1288 Optical Readers

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GT00-0001-1			X	X	X	Data Management Macros & Services
GN21-5124			X	X	X	
GN21-5154			X			
GY21-0013-1	X					1285, 1287, 1288 Optical Readers PLM
GT00-0039-0			X	X	X	
GN21-5123			X	X	X	
GN21-5136			X	X		
GN21-5155			X			
GC21-5006-1	X	X	X	X	X	IBM 1419/1275 Data Management Macro Instructions and Services
GN21-5125	X	X	X	X	X	
GN21-5127	X	X	X	X	X	
GN21-5134	X	X	X	X	X	
GN21-5137	X	X	X	X		
GN26-0636	X					
GY21-0012-0	X	X	X	X	X	1419 Magnetic Character Reader &
GN21-5128	X	X	X	X	X	1275 Optical Reader/Sorter Device Dependent
GN21-5135	X	X	X			BSAM PLM
GN21-5156	X	X				

31 SUPPORT PROGRAMS

GC27-6918-3	X	X	X	X		Maintenance Program
GC28-6429-0	X	X	X	X		Linkage Editor (E)- IRM
GC28-6538-9	X					Linkage Editor and Loader
GT00-0007-0			X	X	X	
GN28-0272			X	X	X	
GN28-0423			X	X		
GN28-0435			X			
GN28-0474					X	
GX20-1739-3					X	Linkage Editor and Loader Reference Summary
GY27-7155-2	X	X	X	X	X	Machine Check Handler for S/360 Model 65 PLM
GN27-1333	X	X	X	X	X	
GN27-1343	X	X	X			
GN27-1369	X					
GY27-7184-1	X	X	X			Machine Check Handler for S/360 Model 85 PLM
GN27-1368	X					
GT67-7184-0					X	
GN27-1332					X	
GY27-7198-1	X					Machine Check Handler for S/370 Model 155, 165 PLM
GT00-0042-0		X	X			
GY27-7237-1	X					OS Machine Check Handler for S/370
GT00-0045-0		X				Models 135 and 145
GY28-6610-2	X	X	X	X		Linkage Editor (E) PLM
GY28-2301	X	X	X	X		
GY28-2356	X	X	X	X		
GY28-6400	X	X	X	X		
GY28-6667-2	X					Linkage Editor (F) PLM
GT00-0060-0		X	X			
GN28-0434		X				
GT68-6667-0					X	
GY28-2357					X	
GY28-6401					X	
GY28-6404					X	
GY28-6714-1	X	X	X			Loader PLM
GN28-0475	X					
GT68-6714-0					X	
GY28-2401					X	
GY28-6405					X	
GY28-7106-0	X	X	X	X		Update Analysis Program PLM

32 UTILITIES

GC28-6586-13	X					Utilities
GN35-0004	X					
GT00-0012-0			X	X		
GN35-0001			X			
GN35-0003			X			
GT68-6586-11					X	
GY28-6614-8	X					Utilities PLM

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GT00-0052-0			X	X		
GY35-0001			X			
GT68-6614-6					X	
GY35-0006					X	

33 SORT/MERGE

GC28-6543-7	X					Sort/Merge
GT00-0008-0			X	X		
GN33-8096			X			
GT28-6543-5					X	
GN33-8054					X	
GN33-8070					X	
GC28-6662-1	X	X	X	X	X	Sort/Merge Timing Estimates
GY28-6597-4	X					Sort/Merge PLM
GT00-0047-0		X	X	X	X	

34 SYSTEM PLANNING, GENERATION, INSTALLATION, SMF

GY33-8030			X	X	X	
GC27-6939-10	X					MFT Guide
GT00-0005-0			X			
GQ27-6939-8				X		
GC28-6551-14	X	X				Storage Estimates
GN28-2533	X					
GT00-0010-0			X			
GN28-2495			X			
GN28-2499			X			
GN28-2517	X					
GQ28-6551-12				X		
GN28-2455				X		
GT28-6551-11					X	
GN28-2438					X	
GC28-6554-11	X					System Generation
GN26-0637	X					
GT00-0011-0			X	X		
GN26-0627			X			
GN26-0629			X	X		
GN26-0634			X			
GN26-0635			X			
GT28-6554-9					X	
GN26-0613					X	
GN26-0628					X	
GN28-2439					X	
GC28-6712-5						Systems Management Facilities
GT00-0024-0			X			
GN35-0002			X			
GC28-6716-0	X	X	X	X	X	Feature Guide
GC28-6720-4	X					MVT Guide
GT00-0026-0			X			
GQ28-6720-2				X		
GN28-2460			X			
GC28-6730-4	X					Release 21.6 Guide
GT00-0071-0		X				
GT00-0072-0		X				
GN28-2530		X				
GN28-2532		X				
GT00-0027-0			X			Release 20.1 Guide
GN28-2496			X			
GN28-2498			X			
GN28-2514			X			
GN28-2516			X			
GT28-6730-0				X		Release 20 Guide
GN28-2465				X		
GC28-6733-1					X	Release 19 Guide
GN28-2432					X	
GN28-2434					X	
GN28-2453					X	
GN28-2466					X	
GN28-2449	X	X	X	X	X	

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<b>36 CONTROL PROGRAM</b>						
GC27-6942-2	X	X	X	X		Intro to Main Storage Hierarchy Support for 2361 Models 1 & 2
GC28-6632-5					X	Job Control Language Charts
GN28-2382					X	
GN28-2399					X	
GN28-2418					X	
GC28-6628-8						System Control Blocks
GT00-0014-0		X				
GQ28-6628-6				X		
GN28-2464				X		
GT28-6628-5					X	
GC28-6646-6	X					Supervisor Services and Macro Instructions
GT00-0016-0		X				
GQ28-6646-4				X		
GN27-1350				X		
GT28-6646-3					X	
GC28-6647-5			X	X		Supervisor & Data Mgmt Macro Instructions
GN26-0622			X			
GN26-0630			X			
GT28-6647-4					X	
GC28-6670-5		X				Programmer's Guide to Debugging
GN28-2520	X					
GT00-0018-0			X	X		
GN28-2457			X			
GN28-2472			X			
GT28-6670-3					X	
GC28-6703-2		X				Job Control Language User's Guide
GQ28-6703-1				X		
GT28-6703-0					X	
GC28-6704-2	X					Job Control Language Reference
GT00-0022-0		X				
GT28-6704-0				X	X	
GC28-6708-4	X					Advanced Checkpoint/Restart
GT00-0023-0		X	X	X	X	
GN26-0620		X	X	X		
GN26-0623		X				
GT00-0009-0		X				System Programmer's Guide
GN28-2494		X				
GT28-6550-8				X	X	
GN28-2437				X	X	
GN28-2452				X		
GN28-2456		X				
GN28-2451				X		
GY27-7128-7	X					Job Management with MFT, PLM
GT00-0041-0		X	X			
GN28-2468		X				
GY27-7159-1	X	X	X	X		Graphic Job Processor Support PLM
GY27-7166-0	X	X	X	X		S/360 & 1130 Disk Monitor System Job Processing from a remote
GY27-7192	X	X	X	X		1130/2250 Subsystem PLM
GY27-7236-1	X					MFT Supervisor PLM
GT00-0044-0		X	X			
GN27-1349		X				
GN27-1364		X				
GY28-6605-4					X	Introduction to Control PLM
GN28-2422					X	
GY28-2392					X	
GY28-6612-4		X	X	X		PCP Supervisor PLM
GN27-1337		X	X	X		
GY27-7188		X	X	X		
GY27-7189		X	X	X		
GY28-6613-5					X	PCP Job Management PLM
GY28-6659-6	X					MVT Supervisor PLM
GT00-0057-0		X	X			
GN27-1354		X				
GN27-1363		X				
GY28-6660-9	X					MVT Job Management PLM
GT00-0058-0		X				
GQ68-6660-6				X		
GY28-6661-5	X					Initial Prog Loader & Nucleus Initialization Program PLM
GT00-0059-0		X	X			
GN27-1344		X				
GN27-1353		X				
GT68-6661-3					X	

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GX28-6783-0	X					Job Control Language Syntax Ref Summary

37 RAS

GC27-6970	X					OS Problem Determination Aids & Msgr & Codes for GPS & GSP
GC28-6648-1		X	X	X		TESTSTRAN
GC28-6650-6	X					On-line Test Executive Program
GT00-0017-0		X				
GQ28-6650-4			X			
GT28-6650-3					X	
GC28-6719-2	X					Service Aids
GT00-0025-0		X	X			
GN28-2478		X				
GT28-6719-0					X	
GC28-6747-2	X					Reliability Data Extractor (RDE) Guide
GT00-0029-0		X				
GX28-6749-3	X					Service Aids - Reference Card
GT00-0038-0		X				
GY28-6611-0		X	X	X		TESTSTRAN PLM
GN26-8018		X	X	X		
GY28-2371		X	X	X		
GC26-3796-0	X					TESTSTRAN System Information
GY28-6651-5	X					Online Test Executive Program PLM
GT00-0056-0		X				
GQ28-6651-3				X		
GT68-6651-2					X	
GY28-6721-0	X					Service Aids

38 REMOTE JOB ENTRY

GC30-2006-5	X	X				Remote Job Entry
GN28-0602	X					
GT00-0032-0			X	X	X	
GN30-2543			X	X		
GN30-2547			X	X		
GN30-2555			X			
GC30-2010-0			X	X	X	Planning for Conversational RJE
GN30-2529			X	X	X	
GN30-2531			X	X	X	
GN30-2536			X	X	X	
GC30-2012-1	X					Conversational RJE Concepts & Facilities
GT00-0033-0		X	X	X		
GC30-2014-1	X					Conversational RJE Terminal User's Guide
GT00-0034-0		X	X	X		
GN30-2549		X	X			
GC30-2016-1	X					Conversational RJE System Programmer's Guide
GT00-0035-0		X	X	X		
GN30-2548		X	X			
GY30-2005-4	X	X	X	X	X	RJE PLM
GY30-2542	X	X	X			
GY30-2557	X					
GY30-2011-1	X					Conversational RJE PLM
GT00-0062-0		X	X	X		
GY30-2550		X	X			
GY30-2553		X	X			

39 TIME SHARING

GC28-6698-4	X	X				TSO Guide
GN28-2519	X					
GT00-0021-0			X			
GN28-2497			X			
GN28-2502			X			
GT28-6698-2			X			
GX28-6781-0	X					TSO Command Language Ref Summary
GY28-6745-0	X	X				TSO Catalog Management PLM

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GN28-2481		X	X			
GC28-6732-2	X	X				TSO Command Language Reference
GN28-2521	X					
GT00-0028-0			X			
GN28-2480			X			
GN28-2503			X			
GY28-6771-0		X	X			TSO Command Processor PLM, Vol 1
GN28-2489		X	X			
GY28-6772-0		X	X			TSO Command Processor PLM, Vol 2
GN28-2490		X	X			
GN28-2513		X				
GY28-6773-1		X				TSO Command Processor PLM, Vol 3
GT00-0063-0			X			
GN28-2485			X			
GY28-2485			X			
GY28-6774-0		X	X			TSO Command Processor PLM, Vol 4
GN28-2491		X	X			
GY28-6775-0		X	X			TSO Command Processor PLM, Vol 5
GN28-2486		X	X			
GN28-2511		X				
GY28-6776-0		X	X			TSO Command Processor PLM, Vol 6
GN28-2492		X	X			
GY28-6777-0		X	X			TSO Command Processor PLM, Vol 7
GN28-2488		X	X			
GY27-7199-2	X	X				TSO Control Program PLM
GN27-1277	X					
GT00-0043-0			X			
GC28-6264-2	X					TSO Guide to Writing a Terminal Monitor
GT00-0073-0	X					
GN28-2523		X				
GT00-0031-0			X			
GN28-2484			X			
GY28-6770-2	X	X				TSO Terminal Monitor Program and Service Routines PLM
GT00-0074-0		X				
GN28-2524		X				
GT00-0061-0		X				
GC28-6762-0		X	X			TSO Terminals
GN28-2487		X	X			
GC28-6763-1		X				TSO Terminal User's Guide
GN28-2522		X				
GT00-0030-0			X			
GN28-2483			X			

40 SYSTEM OPERATION

GC27-6949-1		X				Operator's Guide for Display Consoles
GT00-0063-0			X	X	X	
GN27-1356			X	X		
GN27-1362			X	X		
GC28-6691-3		X				
GT00-0020-0			X	X		
GN28-2463			X			
GN28-2473			X			
GN28-2500			X			
GT28-6691-1					X	
GN28-2433					X	
GN28-2444					X	
GC28-6692-1		X	X	X	X	Operator's Procedures
GN28-2474		X	X			
GN28-2508		X				
GC28-6631-12		X				Messages and Codes
GT00-0015-0			X			
GN28-2501			X			
GQ28-6631-10				X		
GN28-2461			X			
GT28-6631-9					X	
GN28-2429					X	
GN28-2440					X	

**OS-RELEASE INDEPENDENT PUBLICATIONS (20-40)**

**ASP (Attached Support Processor System)**

GH20-0322 IBM SYSTEM/360 AND SYSTEM/370 ATTACHED SUPPORT PROCESSOR SYSTEM (ASP) VERSION 2, APPLICATION PROGRAMMER'S MANUAL PROGRAM NUMBER 360A-CX-15X  
GH20-0321 IBM SYSTEM/360 AND SYSTEM/370 ATTACHED SUPPORT PROCESSOR SYSTEM (ASP) VERSION 2 CONSOLE OPERATOR'S MANUAL PROGRAM NUMBER 360A-CX-15X  
GH20-0323 IBM SYSTEM/360 AND SYSTEM/370 ATTACHED SUPPORT PROCESSOR SYSTEM (ASP) VERSION 2, SYSTEM PROGRAMMER'S MANUAL PROGRAM NUMBER 360A-CX-15X  
\*\*GH20-1173 IBM SYSTEM/360 AND SYSTEM/370 ASP VERSION F 3 ASYMMETRIC MULTIPROCESSING SYSTEM GENERAL INFORMATION MANUAL APPLICATION - PROGRAM NUMBER 360A-CX-15X  
GX20-1027 SYSTEM/360/370 ASP REFERENCE CARD, PROGRAM NUMBER 360A-CX-15X  
GYB0-0508 IBM SYSTEM/360 ATTACHED SUPPORT PROCESSOR SYSTEM (ASP) VERSION 2 MICROPICHE, PROGRAM NUMBER 360A-CX-15X  
GY20-0305 IBM SYSTEM/360 AND SYSTEM/370 ATTACHED SUPPORT PROCESSOR SYSTEM (ASP) VERSION 2 SYSTEM MANUAL PROGRAM NUMBER 360A-CX-15X  
GI60-0305 SYSTEM/360 ATTACHED SUPPORT PROCESSOR SYSTEM (ASP) VERSION 2 SYSTEM MANUAL PROGRAM NUMBER 360A-CX-15X

**CALL-OS**

**20 General Information**

GH20-0673 CALL/360-OS SYSTEM DESCRIPTION MANUAL, PROGRAM NUMBER 360A-CX-42X

**23 BASIC**

GH20-0699 CALL/360-OS BASIC LANGUAGE REFERENCE MANUAL (PROGRAM NUMBER 360A-CX-42X)  
GX20-1811 CALL/360-OS BASIC REFERENCE CARD PROGRAM NUMBER 360A-CX-42X  
GYB0-0540 CALL/360-OS (VERSION 1) BASIC ASSEMBLY LISTINGS PROGRAM NUMBER 360A-CX-42X (PE#030025)  
GY20-0530 CALL/360 - OS BASIC SYSTEM MANUAL PROGRAM NUMBER 360A-CX-42X

**25 FORTRAN**

GH20-0710 CALL 360/-OS FORTRAN LANGUAGE REFERENCE MANUAL PROGRAM NUMBER 360A-CX-42X  
GX20-1812 CALL/360-OS FORTRAN REFERENCE CARD PROGRAM NUMBER 360A-CX-42X  
GYB0-0541 CALL/360-OS (VERSION 1) FORTRAN ASSEMBLY LISTINGS PROGRAM NUMBER 360A-CX-42X (PE#030025)  
\*\*GY20-0531 CALL/360-OS FORTRAN SYSTEM MANUAL PROGRAM NUMBER 360A-CX-42X

**29 PL/I**

GH20-0700 CALL/360-OS PL/I LANGUAGE REFERENCE MANUAL  
GX20-1810 CALL/360-OS PL/I REFERENCE CARD PROGRAM NUMBER 360A-CX-42X  
GYB0-0542 CALL/360-OS (VERSION 1) PL/I ASSEMBLY LISTINGS PROGRAM NUMBER 360A-CX-42X (PE#030025)  
GY20-0567 CALL/360-OS PL/I SYSTEMS MANUAL VOLUME I  
GY20-0568 CALL/360-OS PL/I SYSTEM MANUAL VOLUME II  
GY20-0569 CALL/360-OS PL/I SYSTEM MANUAL VOLUME III PROGRAM NUMBER 360A-CX-42X  
GY20-0570 CALL/360 OS PL/I SYSTEM MANUAL VOLUME 4

**32 Utilities**

GYB0-0538 CALL-OS VERSION 2 EXECUTIVE & UTILITY LISTINGS PROGRAM NUMBER 360A-CX-42X  
\*\*GY20-0529 CALL/360-OS EXECUTIVE AND UTILITIES SYSTEM MANUAL PROGRAM NUMBER 360A-CX-42X

**34 System Planning, Generation, Installation, SMF**

GH20-0786 CALL/360-OS EXECUTIVE AND UTILITIES PROGRAM DESCRIPTION MANUAL (PROGRAM NUMBER 360A-CX-42X)

**40 System Operation**

GH20-0787 CALL/360-OS TERMINAL OPERATIONS MANUAL PROGRAM NUMBER 360A-CX-42X  
GH20-0788 CALL/360-OS OPERATOR'S MANUAL PROGRAM NUMBER 360A-CX-42X  
GX20-1830 CALL-OS TERMINAL COMMAND LANGUAGE - REFERENCE CARD PROGRAM NUMBER 360A-CX-42X

**REAL TIME MONITOR**

**36 Control Program**

GH20-0824 INTRODUCTION TO THE REAL-TIME MONITOR  
GH20-0876 THE REAL-TIME MONITOR (RTM) PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 360A-SV-001

ORDER NUMBER	TITLE
GH20-0877	The REAL-TIME MONITOR (RTM), PROGRAM NUMBER 360A-SV-001 OPERATIONS AND PROGRAMMER'S GUIDE
GY20-0599	THE REAL-TIME MONITOR (RTM) SYSTEM MANUAL, PROGRAM NUMBER 360A-SV-001

OTHER

20 General Information

GX29-6731	OPERATING SYSTEM SUMMARY CHART
S229-3169	SYSTEM/360 OPERATING SYSTEM - HANDBOOK

25 FORTRAN

GC20-6596	IBM SYSTEM/360 FORTRAN IV LIBRARY SUBPROGRAMS SYSTEMS REFERENCE LIBRARY MANUAL, PROGRAM NUMBERS 360F-LM-619, 360N-LM-480
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29 PL/I

GX33-6000	IBM SYSTEM/360 OPERATING SYSTEM PL/1 (P) REFERENCE CARD: KEYWORDS
-----------	--

30 Access Methods, Data Management, I/O Control Programs

GC27-6975	IBM 2260 BTAM AND 2260 GAM TO IBM 3270 BTAM CONVERSION GUIDE - PROGRAM NUMBERS 360S-CQ-513, 360N-CQ-469
GC30-2009	IBM SYSTEM/360 OPERATING SYSTEM BASIC TELECOMMUNICATIONS ACCESS METHOD PLANNING FOR USE OF THE IBM 2741 UNDER BTAM PROGRAM NUMBER 360S-CQ-513
GC30-1004	IBM SYSTEM/360 OPERATING SYSTEM IBM SYSTEM/360 DISK OPERATING SYSTEM BASIC TELECOMMUNICATIONS ACCESS METHOD PLANNING FOR IBM 2790 DATA COMMUNICATION SYSTEM SUPPORT
GC30-1005	IBM SYSTEM/360 OPERATING SYSTEM AND DISK OPERATING SYSTEM: PLANNING FOR IMPROVED BTAM SUPPORT OF REMOTE BSC STATIONS PROGRAM NUMBER 360S-CQ-513
GC21-5008	IBM SYSTEM/360 OPERATING SYSTEM PLANNING FOR THE IBM 3211 PRINTER DATA MANAGEMENT MACRO INSTRUCTIONS AND SERVICES
GC21-5027	IBM SYSTEM/360 OPERATING SYSTEM: PLANNING FOR THE IBM 3505 CARD READER AND 3525 CARD PUNCH
**GC30-3000	IBM 3705 COMMUNICATIONS CONTROLLER NETWORK PROGRAM GENERATION AND UTILITIES GUIDE AND REFERENCE MANUAL

35 Simulation or Emulation

GC26-3777	EMULATING DOS ON IBM SYSTEM/370 UNDER OS SYSTEM REFERENCE LIBRARY MANUAL - PROGRAM NUMBER 360C-EU-738
GY26-3741	IBM SYSTEM/360 OPERATING SYSTEM DOS EMULATOR PROGRAM ON IBM SYSTEM/360 MODELS 135, 145, AND 155
**GC30-3002	IBM SYSTEM LOGIC MANUAL - PROGRAM NUMBER 360C-EU-738 IBM 3705 COMMUNICATIONS CONTROLLER EMULATION GENERATION AND UTILITIES GUIDE REFERENCE MANUAL - PROGRAM NUMBERS 360H-TX-035, 360H-TX-036
GC27-6951	EMULATING THE IBM 7094 ON IBM MODELS 85 AND 165 USING OS/360
GC27-6948	EMULATING THE IBM 7074 ON THE IBM SYSTEM/370 MODEL 165 USING OS/360
GY27-7228	PROGRAM TO EMULATE THE IBM 7074 ON THE IBM SYSTEM/370 MODEL 165 USING OS/360 - PROGRAM NUMBER 360C-EU-739
GY27-7238	MODEL 165 USING OS/360 - PROGRAM NUMBER 360C-EU-739 IBM 7074 OPERATING SYSTEM EMULATOR ON SYSTEM/370 MODEL 155 LOGIC MANUAL - PROGRAM NUMBER 360C-EU-741
GC27-6952	EMULATING THE IBM 7080 ON THE IBM SYSTEM/370 MODEL 165 USING OS/360 - PROGRAM NUMBER 360C-EU-737
GY27-7229	PROGRAM TO EMULATE THE IBM 7080 ON THE IBM SYSTEM/370 MODEL 165 USING OS/360 - PROGRAM NUMBER 360C-EU-737
GY27-7187	EMULATOR PROGRAM TO EMULATE THE 7094 ON MODELS 65 AND 165 USING OS/360 - PROGRAM NUMBERS 360C-EU-734, 360C-EU-740

36 Control Program

3C27-6935	IBM SYSTEM/360 OPERATING SYSTEM PLANNING FOR ROLLOUT/ROLLIN
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38 Remote Job Entry

GC30-2015	IBM SYSTEM/360 OPERATING SYSTEM REMOTE JOB ENTRY - PLANNING FOR IBM 2770 RJE SUPPORT
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DOS (DISK OPERATING SYSTEM)-RELEASE 26 AND GENERAL(20-40)

20 General Information

GC24-5063	DISK OPERATING SYSTEM/360 MASTER INDEX SYSTEMS REFERENCE LIBRARY MANUAL
GC24-5030	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS CONCEPTS AND FACILITIES

21 Assembler

GC24-3414	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEM ASSEMBLER LANGUAGE
GY26-3642	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS ASSEMBLER (D) PROGRAM NUMBER 360M/N-AS-465
GY26-3716	IBM SYSTEM/360 DISK OPERATING SYSTEM ASSEMBLER (F) PROGRAM NUMBER 360N-AS-466

ORDER NUMBER	TITLE
<u>24 COBOL</u>	
GC24-3433	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS COBOL LANGUAGE SPECIFICATIONS COBOL DOS PROGRAM NUMBER 360N-CB-452 COBOL TOS PROGRAM NUMBER 360M-CB-402
GC24-5025	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS COBOL PROGRAMMER'S GUIDE PROGRAM NUMBERS 360N-CB-452 360M-CB-402
GC24-5039	IBM SYSTEM/360 DISK OPERATING SYSTEM COBOL DASD MACROS PROGRAM NUMBER 360N-CB-468
GC28-6394	IBM SYSTEM/360 DISK OPERATING SYSTEM - USA STANDARD COBOL
GC28-6398	IBM SYSTEM/360 DISK OPERATING SYSTEM: USA STANDARD COBOL PROGRAMMER'S GUIDE PROGRAM NUMBER 360N-CB-482
GC28-6400	IBM SYSTEM/360 CONVERSION AIDS: COBOL-TO-USA STANDARD COBOL LANGUAGE CONVERSION PROGRAM PROGRAM NUMBERS 360N-CV-489, 360C-CV-713
GC28-6403	IBM SYSTEM/360 DISK OPERATING SYSTEM: AMERICAN NATIONAL STANDARD SUBSET COBOL PROGRAM NUMBER 5736-CB1
GY24-5025	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS COBOL D 360M-CB-402 VERSION 2 360N-CB-452 VERSION 2
GY28-6392	IBM SYSTEM/360 DISK OPERATING SYSTEM USA STANDARD COBOL - PROGRAM LOGIC MANUAL PROGRAM NUMBER 360N-CB-482
GY28-6397	IBM SYSTEM/360 CONVERSION AIDS: COBOL TO USA STANDARD COBOL LANGUAGE CONVERSION PROGRAM - PROGRAM LOGIC MANUAL PROGRAM NUMBERS 360N-CV-489, 360C-CV-713
<u>25 FORTRAN</u>	
GC24-5038	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS BASIC FORTRAN IV PROGRAMMERS GUIDE PROGRAM NUMBERS 360N-FO-451 AND 360M-FO-409
GC28-6397	IBM SYSTEM/360 DISK OPERATING SYSTEM FORTRAN IV PROGRAMMER'S GUIDE PROGRAM NUMBERS 360N-FO-479 360N-LM-480
GC28-6515	IBM SYSTEM/360 FORTRAN IV LANGUAGE SYSTEMS REFERENCE LIBRARY MANUAL, PROGRAM NUMBER 360N-LM-480
GC28-6596	IBM SYSTEM/360 FORTRAN IV LIBRARY SUBPROGRAMS SYSTEMS REFERENCE LIBRARY MANUAL, PROGRAM NUMBERS 360P-LM-619, 360N-LM-480
GC28-6629	IBM SYSTEM/360 BASIC FORTRAN IV LANGUAGE
GC28-6818	IBM SYSTEM/360 FORTRAN IV LIBRARY: MATHEMATICAL AND SERVICE SUBPROGRAMS - SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBER 360S-LM-501
GC28-6819	IBM SYSTEM/360 FORTRAN IV LANGUAGE HANDBOOK FOR CONVERSION FROM IBM 7090/7094 FORTRAN IV PROGRAM NUMBER 7090-PR-130
GY24-5032	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS FORTRAN IV PROGRAM NUMBER 360M-FO-409 PROGRAM NUMBER 360N-FO-451
GY28-6394	IBM SYSTEM/360 DISK OPERATING SYSTEM FORTRAN IV PROGRAM LOGIC MANUAL PROGRAM NUMBER 360N-FO-479
<u>28 RPG</u>	
SC21-5005	IBM DOS RPG II LANGUAGE - SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBER 5736-RG1
GC21-5021	IBM DOS RPG II GENERAL INFORMATION MANUAL PROGRAM NUMBER 5736-RG1
SC21-5033	IBM SYSTEM/360 DISK OPERATING SYSTEM RPG TO RPG II CONVERSION REFERENCE MANUAL
GC26-3570	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS REPORT PROGRAM GENERATOR SPECIFICATIONS
GY26-3701	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEM REPORT PROGRAM GENERATOR PROGRAM NUMBERS 360N-RG-460 (DISK) 360N-RG-400 (TAPE)
<u>29 PL/I</u>	
GC24-9005	DOS AND TOS PL/I (D) COMPILER PROGRAMMER'S GUIDE PL/I - PROGRAMMER'S GUIDE
GC28-0202	TWL TO IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS PL/I SUBSET REFERENCE MANUAL
GK28-1749	IBM SYSTEM/360 DOS/TOS REFERENCE CARD PL/I
GY33-9010	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS, PL/I SUBSET LANGUAGE, PROGRAM LOGIC MANUAL, VOLUME 1 OF 3 PROGRAM NUMBERS: 360N-PL-464 (DOS) 360M-PL-410 (TOS)
GY33-9011	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS, PL/I SUBSET LANGUAGE, VOLUME 2 OF 3 PROGRAM NUMBERS: 360N-PL-464 (DOS) 360M-PL-410 (TOS) PROGRAM LOGIC MANUAL
GY33-9012	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS, PL/I SUBSET LANGUAGE, VOLUME 3 OF 3 PROGRAM LOGIC MANUAL PROGRAM NUMBERS: 360N-PL-464 (DOS) 360M-PL-410 (TOS)
GY33-9013	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS PL/I SUBSET LIBRARY ROUTINES - PROGRAM LOGIC MANUAL PROGRAM NUMBERS 360N-PL-464 (DOS), 360M-PL-410 (TOS)
<u>30 Access Methods, Data Management, I/O Control Programs</u>	
GC21-5034	IBM SYSTEM/360 DISK OPERATING SYSTEM: PLANNING FOR THE IBM 3505 CARD READER AND THE IBM 3525 CARD PUNCH
GC21-5047	IBM 2596 CARD READ PUNCH DOS PROGRAM PLANNING GUIDE
GC21-5063	DOS PROGRAMMING SUPPORT FOR IBM 2596 CARD READ PUNCH
GC24-3427	IBM SYSTEM/360 DISK OPERATING SYSTEM DATA MANAGEMENT CONCEPTS SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBER 360N-CL-453
GC24-5037	IBM SYSTEM/360 DISK OPERATING SYSTEM SUPERVISOR AND INPUT/OUTPUT MACROS SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBER 360N-CL-453
GC24-5070	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT, BASIC OPERATING SYSTEM, TAPE OPERATING SYSTEM, DISK OPERATING SYSTEM, TAPE LABELS SYSTEMS REFERENCE LIBRARY MANUAL

ORDER NUMBER	TITLE
GC24-5072	IBM SYSTEM/360 DISK OPERATING SYSTEM, DASD LABELS
GC27-6975	IBM 2260 BTAM AND 2260 GAM TO IBM 3270 BTAM CONVERSION GUIDE - PROGRAM NUMBERS 360S-CQ-513, 360N-CQ-469
GC27-6977	DOS PROGRAMMING SUPPLEMENT FOR THE 3270 INFORMATION DISPLAY SYSTEM - MANUAL
GC30-1004	IBM SYSTEM/360 OPERATING SYSTEM IBM SYSTEM/360 DISK OPERATING SYSTEM BASIC TELECOMMUNICATIONS ACCESS METHOD
GC30-1005	IBM SYSTEM/360 OPERATING SYSTEM AND DISK OPERATING SYSTEM: PLANNING FOR IMPROVED BTAM SUPPORT OF REMOTE BSC STATIONS PROGRAM NUMBER 360S-CQ-513
**GC30-3000	IBM 3705 COMMUNICATIONS CONTROLLER NETWORK PROGRAM GENERATION AND UTILITIES GUIDE AND REFERENCE MANUAL
GC30-5001	IBM SYSTEM/360 DISK OPERATING SYSTEM BASIC TELECOMMUNICATIONS ACCESS METHOD PROGRAM NUMBER 360N-CQ-469
GC30-5003	IBM SYSTEM/360 DISK OPERATING SYSTEM QTAM MESSAGE PROCESSING SERVICES - SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBER 360N-CQ-470
GC30-5004	IBM SYSTEM/360 DISK OPERATING SYSTEM QTAM MESSAGE CONTROL PROGRAM NUMBER 360N-CQ-470
GC33-5004	SYSTEM/360 DOS PLANNING GUIDE FOR PROGRAMMING THE 3330 DIRECT ACCESS STORAGE FACILITY
GY24-5020	IBM SYSTEM/360 DISK OPERATING SYSTEM, LOGICAL IOCS, VOLUME 1: INTRODUCTION PROGRAM LOGIC MANUAL, PROGRAM NUMBERS CPMOD 360N-CL-453, DAMOD 360N-IO-454, DIMOD 360N-CL-453, DTPCN 360N-CL-453, ISMOD 360N-IO-457, NRMOD 360N-IO-477, NMOD 360N-IO-456, ORMOD 360N-IO-478, PRMOD 360N-CL-453, PTMOD 360N-IO-458, SDMOD 360N-IO-455
GY24-5087	IBM SYSTEM/360 DISK OPERATING SYSTEM LOGICAL IOCS VOLUME 2: UNIT RECORD, MAGNETIC TAPE AND DEVICE INDEPENDENT FILES PROGRAM LOGIC MANUAL
GY24-5088	IBM SYSTEM/360 DISK OPERATING SYSTEM, LOGICAL IOCS VOLUME 3: SEQUENTIAL AND DIRECT ACCESS DASD FILES, (PROGRAM NUMBERS: SDMOD 360N-IO-455 DAMOD 360N-IO-454) PROGRAM LOGIC MANUAL
GY24-5089	DOS LIOCS VOLUME 4: ISFMS - PROGRAM NUMBER 360N-IO-457
GY30-5001	IBM SYSTEM/360 DISK OPERATING SYSTEM BASIC TELECOMMUNICATIONS ACCESS METHOD PROGRAM LOGIC MANUAL PROGRAM NUMBER 360N-CQ-469
GY30-5002	IBM SYSTEM/360 DISK OPERATING SYSTEM QUEUED TELECOMMUNICATIONS ACCESS METHOD PROGRAM LOGIC MANUAL PROGRAM NUMBER 360N-CQ-470

### 31 Support Programs

GY24-5079	IBM SYSTEM/360 DISK OPERATING SYSTEM LIBRARIAN MAINTENANCE AND SERVICE PROGRAMS PROGRAM NUMBER 360N-CL-453
GY24-5080	IBM SYSTEM/360 DISK OPERATING SYSTEM LINKAGE EDITOR PROGRAM PROGRAM NUMBER 360N-CL-453

### 32 Utilities

GC24-3465	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS UTILITY PROGRAMS SPECIFICATIONS PROGRAM NUMBERS 360N-UT-461, 462, 463
GC24-5042	DOS AND TOS UTILITY MACROS - SYSTEMS REFERENCE LIBRARY MANUAL - PROGRAM NUMBERS 360N-UT-411 AND 360N-UT-471
GC27-6924	IBM SYSTEM/360 DISK OPERATING SYSTEM VOCABULARY FILE UTILITY PROGRAM FOR THE IBM 7772 AUDIO RESPONSE UNIT PROGRAM NUMBER 360N-UT-472
GY24-5023	IBM SYSTEM/360 DISK OPERATING SYSTEM UTILITIES PROGRAM NUMBERS 360N-UT-461 360N-UT-462 360N-UT-463
GY24-5045	DOS AND TOS UTILITIES MACROS - PROGRAM LOGIC MANUAL PROGRAM NUMBERS 360N-UT-411, 360N-UT-471

### 33 Sort/Merge

GC24-3438	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS TAPE SORT/MERGE PROGRAM PROGRAM NUMBERS 360N-SM-400 360N-SM-400
GC24-3439	IBM 1401/1460 TIMING PROGRAM FOR IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS TAPE/SORT MERGE PROGRAM PROGRAM NUMBER 1401-LM-010 (2401-2404) PROGRAM NUMBER 1401-LM-012 (2415)
GC24-3444	IBM SYSTEM/360 DISK OPERATING SYSTEM DISK SORT/MERGE PROGRAM PROGRAM NUMBER 360N-SM-450
GC24-3445	IBM 1401/1460 TIMING PROGRAM FOR IBM SYSTEM/360 DISK OPERATING SYSTEM SORT/MERGE PROGRAM PROGRAM NUMBER 1401-LM-011
GC28-6676	IBM SYSTEM/360 DISK OPERATING SYSTEM TAPE AND DISK SORT/MERGE PROGRAM PROGRAM NUMBER 360N-SM-483
GC28-6679	IBM SYSTEM/360 DISK OPERATING SYSTEM TAPE AND DISK SORT/MERGE TIMING ESTIMATES PROGRAM NUMBER 360N-SM-483
GY24-5021	IBM SYSTEM/360 DISK OPERATING SYSTEM SORT/MERGE PROGRAM NUMBER 360N-SM-450
GY28-6645	IBM SYSTEM/360 DISK OPERATING SYSTEM TAPE AND DISK SORT/MERGE PROGRAM LOGIC MANUAL PROGRAM NUMBER 360N-SM-483

### 34 System Planning, Generation, Installation, SMP

GC24-5033	IBM SYSTEM/360 DISK OPERATING SYSTEM: SYSTEM GENERATION AND MAINTENANCE
GC24-5002	IBM SYSTEM/360 DOS TO OS MANAGEMENT PLANNING GUIDE
GC24-6000	IBM SYSTEM/360 DOS-TO-OS IMPLEMENTATION GUIDE SYSTEM REFERENCE LIBRARY MANUAL

### 35 Simulation or Emulation

GC27-6940	SYSTEM/360 DISK OPERATING SYSTEM 1401/1440/1460 EMULATOR PROGRAMS COMPATIBILITY SUPPORT 30/40 PROGRAM NUMBERS 360N-EU-484 AND 360N-EU-485
**GC30-3002	IBM 3705 COMMUNICATIONS CONTROLLER EMULATION GENERATION AND UTILITIES GUIDE REFERENCE MANUAL - PROGRAM NUMBERS 360N-TX-035, 360N-TX-036

ORDER NUMBER	TITLE
GC33-2004	EMULATING THE IBM 1401, 1440 AND 1460 ON THE IBM SYSTEM/370 MODELS 145 AND 155 USING DISK OPERATING SYSTEM/360
GC33-2005	EMULATING THE IBM 1410 AND 7010 ON THE IBM SYSTEM/370 MODELS 145 AND 155 USING DOS/360
GY27-7164	IBM SYSTEM/360 DISK OPERATING SYSTEM 1401/1440/1460 EMULATOR PROGRAM COMPATIBILITY SUPPORT/30 PROGRAM NUMBER 360N-EU-484
GY27-7165	IBM SYSTEM/360 DISK OPERATING SYSTEM 1401/1440/1460 EMULATOR PROGRAM COMPATIBILITY SUPPORT/40 PROGRAM NUMBER 360N-EU-485
GY33-7008	PROGRAM TO EMULATE THE 1401, 1440, AND 1460 ON THE SYSTEM/370 MODELS 145 AND 155 USING DISK OPERATING SYSTEM/360 - PROGRAM NUMBER 360N-EU-490
GY33-7009	PROGRAM LOGIC MANUAL PROGRAM TO EMULATE THE 1410 AND 7010 ON THE SYSTEM/370 MODELS 145 AND 155 USING DOS/360 PROGRAM NUMBER 360N-EU-490 PROGRAM LOGIC MANUAL

36 Control Program

GC20-1605	SYSTEM/360 DISK OPERATING SYSTEM USER'S GUIDE: CONTROL STATEMENT TECHNIQUES
GC24-5036	IBM SYSTEM/360 DISK OPERATING SYSTEM: SYSTEM CONTROL AND SYSTEM SERVICE PROGRAMS PROGRAM NUMBERS BEGINNING WITH 360N-
GC24-5073	DISK OPERATING SYSTEM SYSTEM PROGRAMMER'S GUIDE
GX20-1771	IBM SYSTEM/360 REFERENCE DATA DOS JOB CONTROL LANGUAGE OPERATOR COMMUNICATION REFERENCE CARD
GY24-5017	IBM SYSTEM/360 DISK OPERATING SYSTEM INTRODUCTION TO DOS LOGIC - PROGRAM NUMBER 360N-CL-453
GY24-5086	IBM SYSTEM/360 DISK OPERATING SYSTEM IPL AND JOB CONTROL PROGRAMS PROGRAM NUMBER 360N-CL-453
GY24-5151	IBM SYSTEM/360 DISK OPERATING SYSTEM SUPERVISOR AND PHYSICAL TRANSIENTS - PROGRAM LOGIC MANUAL PROGRAM NUMBER 360N-CL-453
GY24-5152	IBM SYSTEM/360 DISK OPERATING SYSTEM LOGICAL TRANSIENT PROGRAMS
GY24-5153	IBM SYSTEM/360 DISK OPERATING SYSTEM SYSTEM SERVICE PROGRAMS

37 RAS

GC24-5062	IBM SYSTEM/360 DISK OPERATING SYSTEM AUTOTEST SPECIFICATIONS
GC24-5066	IBM SYSTEM/360, DISK AND TAPE OPERATING SYSTEM, ON-LINE TEST EXECUTIVE PROGRAM, SPECIFICATIONS AND OPERATING GUIDE, PROGRAM NUMBER FOR DOS 360N-DN-481 TOS 360N-DN-418
GC24-5086	DOS OLTEP PROGRAM - SYSTEM REFERENCE LIBRARY MANUAL PROGRAM NUMBER 360N-DN-481
GY24-5027	IBM SYSTEM/360 DISK OPERATING SYSTEM AUTOTEST PROGRAM NUMBER 360N-PT-459
GY24-5056	IBM SYSTEM/360 TAPE OPERATING SYSTEM ON-LINE TEST EXECUTIVE PROGRAM - PROGRAM NUMBER 360N-DN-418
GY24-5154	IBM SYSTEM/360 DISK OPERATING SYSTEM ON-LINE TEST EXECUTIVE PROGRAM - PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360N-DN-481

40 System Operation

GC24-5022	IBM SYSTEM/360 DISK OPERATING SYSTEM OPERATING GUIDE PROGRAM NUMBER 360N-CL-453
GC24-5074	SYSTEM/360 DISK OPERATING SYSTEM MESSAGES SYSTEMS REFERENCE LIBRARY MANUAL SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBER 360N-CL-453

DOS FOR SYSTEM/370 - RELEASE 27 (20-40)

SUBJECT CODE	ORDER NO.	TITLE
<u>20 GENERAL INFORMATION</u>		
	GC33-5007-0	DOS Version 4
	GYC7-1700	DOS 370 Microfiche Master Index
<u>24 COBOL</u>		
	GYC7-1920-0	ANS COBOL
	GYC7-1919-0	COBOL D DOS 370
	GYC7-1921-0	COBOL LCP DOS 370
<u>25 FORTRAN</u>		
	GYC7-1922-0	FORTRAN F DOS 370
	GYC7-1923-0	FORTRAN Library Sub Program DOS 370
<u>21 ASSEMBLER</u>		
	GYC7-1900-0	DOS 370 Assembler (D)
	GYC7-1918-0	Assembler F - DOS 370
<u>29 PL/I</u>		
	GC24-9005-0	DOS and TOS PL/I (D) Compiler Programmer's Guide
	GN33-9129	
	GN33-9130	PL/I
	GYC7-1924-0	

ORDER NUMBER	TITLE
<b>30 ACCESS METHODS, DATA MANAGEMENT, I/O CONTROL PROGRAMS</b>	
GY33-8543-0	DOS Version 4 LIOCS Volume 1 PLM
GY33-8544-0	DOS Version 4 LIOCS Volume 2 PLM
GY33-8545-0	DOS Version 4 LIOCS Volume 3 PLM
GY33-8546-0	DOS Version 4 LIOCS Volume 4 PLM
GC27-6978-0	S/370 DOS Version 4 Telecommunications Access Methods
GY27-7245-0	S/370 DOS Version 4 Basic Telecommunications Access Methods PLM
GYC7-1914-0	Compiler I/O Modules DOS 370
GYC7-1902-0	Direct Access Methods DOS 370
GYC7-1905-0	ISFMS - IOCS DOS 370
GYC7-1904-0	Magnetic Tape - IOCS DOS 370
GYC7-1915-0	Magnetic Character Reader - IOCS DOS 370
GYC7-1916-0	Optical Character Reader - IOCS DOS 370
GYC7-1906-0	Paper Tape - IOCS DOS 370
GYC7-1903-0	Sequential Disk - IOCS DOS 370
GYC7-1901-0	System Control/Basic - IOCS DOS 370
GYC7-1909-0	BTAM DOS 370
GYC7-1910-0	QTAM DOS 370
GYC7-1911-0	3735 Terminal Support DOS 370
<b>31 SUPPORT PROGRAMS</b>	
GY33-8538-0	DOS Version 4 Linkage Editor PLM
<b>32 UTILITIES</b>	
GY33-8547-0	DOS Version 4 System Utilities PLM
GYC7-1907-0	System Utilities DOS 370
GYC7-1927-0	Utilities Group 1 DOS 370
GYC7-1928-0	Utilities Group 2 DOS 370
<b>33 SORT/MERGE</b>	
GYC7-1925-0	Disk Sort/Merge DOS 370
GYC7-1926-0	Modular Sort/Merge DOS 370
<b>34 SYSTEM PLANNING, GENERATION, INSTALLATION, SMP.</b>	
GC33-5008-0	DOS Version 4 System Generation
<b>35 SIMULATION OR EMULATION</b>	
GC33-2004-2	1401/1440/1460 DOS Emulator on Models 135/145/155 Reference Manual
GY33-7008-0 GN33-7002	1401/1440/1460 DOS Emulator on Models 135/145/155 PLM
GC33-2005-2	1410/7010 DOS Emulator on Models 145/155 Reference Manual
GY33-7009-0 GN33-7023	1410/7010 DOS Emulator on Models 145/155 PLM
GYC7-1913-0	S/370 Emulator DOS 370
<b>36 CONTROL PROGRAM</b>	
GY33-8533-0	Introduction to DOS Version 4 Logic PLM
GY33-8542-0	DOS Version 4 IPL and JOB Control - PLM
GY33-8539-0	DOS Version 4 Librarian Maintenance and Service Programs PLM
GY33-8532-0	DOS Version 4 Logical Transients PLM
GY33-8534-0	DOS Version 4 Supervisor and Related Transients PLM
GY33-8537-0	DOS Version 4 System Service Programs PLM
<b>37 RAS</b>	
GY24-5154-3	DOS OLTEP Logic
GYC7-1908-0	EREP DOS 370
GYC7-1912-0	OLTEP DOS 370
<b>40 SYSTEM OPERATION</b>	
GC33-5009-0	DOS Version 4 Messages
<b>TSS (TIME SHARING SYSTEM) (20-40)</b>	
<b>20 General Information</b>	
GC28-2003	IBM SYSTEM/360 TIME SHARING SYSTEM CONCEPTS AND FACILITIES
GC28-2023	IBM SYSTEM/360 TIME SHARING SYSTEM MASTER INDEX
GC28-2043	IBM SYSTEM/360 TIME-SHARING SYSTEM ADDENDUM
	PROGRAM NUMBER 360S-CI-555
GC28-2048	IBM SYSTEM/360 TIME SHARING SYSTEM INTRODUCING TSS/360
	A PRIMER FOR FORTRAN USERS
	PROGRAM NUMBER 360S-CI-555
<b>21 Assembler</b>	
GC28-2000	IBM SYSTEM/360 TIME-SHARING SYSTEM ASSEMBLER LANGUAGE
GC28-2032	IBM SYSTEM/360 TIME-SHARING SYSTEM ASSEMBLER PROGRAMMER'S GUIDE
GY28-2021	IBM SYSTEM/360 TIME-SHARING SYSTEM ASSEMBLER PROGRAM LOGIC MANUAL
<b>25 FORTRAN</b>	
GC28-2007	IBM SYSTEM/360 TIME-SHARING SYSTEM FORTRAN IV SYSTEMS REFERENCE LIBRARY
GC28-2025	IBM SYSTEM/360 TIME-SHARING SYSTEM FORTRAN PROGRAMMER'S GUIDE
GC28-2026	IBM SYSTEM/360 TIME SHARING SYSTEM FORTRAN IV LIBRARY SUBPROGRAMS
GY28-2019	IBM SYSTEM/360 TIME SHARING SYSTEM: FORTRAN IV COMPILER PROGRAM LOGIC MANUAL
GY28-2020	IBM SYSTEM/360 TIME SHARING SYSTEM FORTRAN IV LIBRARY SUBPROGRAMS PROGRAM LOGIC MANUAL
	PROGRAM NUMBER 360G-CI-627

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<u>29 PL/I</u>	
GC28-2045	IBM SYSTEM/360 TIME-SHARING SYSTEM PL/I REFERENCE MANUAL PROGRAM NUMBERS 360G-CL-625 360G-CL-626
GC28-2046	IBM SYSTEM/360 TIME-SHARING SYSTEM PL/I LIBRARY COMPUTATIONAL SUBROUTINES
GC28-2049	IBM SYSTEM/360 TIME SHARING SYSTEM PL/I PROGRAMMER'S GUIDE
GY28-2051	IBM SYSTEM/360 TIME SHARING SYSTEM PL/I COMPILER PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627
GY28-2052	IBM SYSTEM/360 TIME SHARING SYSTEM PL/I LIBRARY COMPUTATIONAL SUBROUTINES PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627
<u>30 Access Methods, Data Management, I/O Control Programs</u>	
GC28-2056	IBM SYSTEM/360 TIME SHARING SYSTEM DATA MANAGEMENT FACILITIES
GY28-2016	IBM SYSTEM/360 TIME SHARING SYSTEM ACCESS METHODS PROGRAM NUMBER 360G-CL-627 PROGRAM LOGIC MANUAL
<u>31 Support Programs</u>	
GC28-2004	IBM SYSTEM/360 TIME-SHARING SYSTEM ASSEMBLER USER MACRO INSTRUCTIONS - SYSTEMS REFERENCE LIBRARY
GC28-2005	IBM SYSTEM/360 TIME-SHARING SYSTEM LINKAGE EDITOR SYSTEMS REFERENCE LIBRARY
GY28-2010	IBM SYSTEM/360 TIME SHARING SYSTEM: SYSTEM SERVICE MANUAL PROGRAM LOGIC MANUAL
GY28-2030	IBM SYSTEM/360 TIME-SHARING SYSTEM LINKAGE EDITOR PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627
<u>32 Utilities</u>	
GC28-2038	IBM SYSTEM/360 TIME-SHARING SYSTEM INDEPENDENT UTILITIES
GY28-2039	IBM SYSTEM/360 TIME-SHARING SYSTEM INDEPENDENT UTILITIES PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627
<u>34 System Planning, Generation, Installation, SMF</u>	
GC28-2010	IBM SYSTEM/360 TIME-SHARING SYSTEM SYSTEM GENERATION AND MAINTENANCE
GC28-2034	IBM SYSTEMS/360 TIME SHARING SYSTEM MULTITERMINAL TASK PROGRAMMING AND OPERATION PROGRAM NUMBER 360S-CI-555
GY28-2015	IBM SYSTEM/360 TIME SHARING SYSTEM: SYSTEM GENERATION AND MAINTENANCE PROGRAM LOGIC MANUAL PROGRAM NUMBER 360-CL-627
<u>36 Control Program</u>	
GC28-2001	IBM SYSTEM/360 TIME-SHARING SYSTEM COMMAND SYSTEM USER'S GUIDE
GC28-2008	IBM SYSTEM/360 TIME SHARING SYSTEM SYSTEM PROGRAMMER'S GUIDE SYSTEMS REFERENCE LIBRARY
GC28-2024	IBM SYSTEM/360 TIME-SHARING SYSTEM MANAGER'S AND ADMINISTRATOR'S GUIDE
GX28-6401	TSS/360 QUICK GUIDE FOR SYSTEMS PROGRAMERS PROGRAM NUMBER 360G-CL-627 REFERENCE CARD
GY28-2009	IBM SYSTEM/360 TIME SHARING SYSTEM SYSTEM LOGIC SUMMARY PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360G-CL-627
GY28-2011	IBM SYSTEM/360 TIME SHARING SYSTEM SYSTEM CONTROL BLOCKS PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360G-CL-627
GY28-2012	IBM SYSTEM/360 TIME SHARING SYSTEM: RESIDENT SUPERVISOR PROGRAM LOGIC MANUAL
**GY28-2013	TIME SHARING SYSTEM/360 COMMAND LANGUAGE PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360G-CL-627
GY28-2014	IBM SYSTEM/360 TIME-SHARING SYSTEM PROGRAM CONTROL SYSTEM PROGRAM LOGIC MANUAL
GY28-2031	IBM SYSTEM/360 TIME SHARING SYSTEM: DYNAMIC LOADER PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627
GY28-2041	IBM SYSTEM/360 TIME SHARING SYSTEM TASK MONITOR PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360G-CL-627
GY28-2047	IBM SYSTEM/360 TIME SHARING SYSTEM OPERATOR TASK AND BULK I/O - PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627
<u>37 RAS</u>	
GC28-2006	IBM SYSTEM/360 TIME-SHARING SYSTEM TIME SHARING SUPPORT SYSTEM
GC28-2020	IBM SYSTEM/360 TIME SHARING SYSTEM TEST AND MAINTENANCE USER'S GUIDE - PROGRAM NUMBER 360G-CL-627
GY28-2022	IBM SYSTEM/360 TIME SHARING SYSTEM TIME SHARING SUPPORT SYSTEM - PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627
GY28-2042	IBM SYSTEM/360 TIME SHARING SYSTEM: ON-LINE TEST CONTROL SYSTEM PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627
<u>38 Remote Job Entry</u>	
GC28-2044	IBM SYSTEM/360 TIME-SHARING SYSTEM PLANNING FOR REMOTE JOB ENTRY
GC28-2057	IBM SYSTEM/360 TIME SHARING SYSTEM REMOTE JOB ENTRY

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<u>40 System Operation</u>	
GC28-2017	IBM SYSTEM/360 TIME-SHARING SYSTEM TERMINAL USER'S GUIDE
GC28-2033	IBM SYSTEM/360 TIME-SHARING SYSTEM OPERATOR'S GUIDE
GC28-2037	IBM SYSTEM/360 TIME SHARING SYSTEM SYSTEM MESSAGE
GX28-6400	TSS/360 QUICK GUIDE FOR USERS PROGRAM NUMBER 360G-CL-627
<u>44PS (MODEL 44 PROGRAMMING SYSTEM) (20-40)</u>	
<u>20 General Information</u>	
GC28-6810	IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEMS CONCEPTS AND FACILITIES - SYSTEMS REFERENCE MANUAL
<u>21 Assembler</u>	
GC28-6811	IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM ASSEMBLER LANGUAGE, PROGRAM NUMBER 360F-AS-616
GY28-6811	IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM ASSEMBLER PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360F-AS-616
<u>25 FORTRAN</u>	
GC28-6515	IBM SYSTEM/360 FORTRAN IV LANGUAGE SYSTEMS REFERENCE LIBRARY MANUAL, PROGRAM NUMBER 360N-LM-480
GC28-6596	IBM SYSTEM/360 FORTRAN IV LIBRARY SUBPROGRAMS SYSTEMS REFERENCE LIBRARY MANUAL, PROGRAM NUMBERS 360F-LM-619, 360N-LM-480
GC28-6813	IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM GUIDE TO SYSTEM USE FOR FORTRAN PROGRAMMERS
GC28-6819	IBM SYSTEM/360 FORTRAN IV LANGUAGE HANDBOOK FOR CONVERSION FROM IBM 7090/7094 FORTRAN IV PROGRAM NUMBER 7090-PR-130
GY28-6815	IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM FORTRAN IV COMPILER PROGRAM NUMBER 360F-FO-618 PROGRAM LOGIC MANUAL - COMPILER PROGRAM NUMBER 360F-FO-618
<u>31 Support Programs</u>	
GY28-6813	IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM LINKAGE EDITOR PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360F-ED-615
<u>32 Utilities</u>	
GY28-6814	IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM UTILITIES AND STAND ALONE PROGRAMS PROGRAM LOGIC MANUAL - PROGRAM NUMBERS 360F-UT-606 360F-UT-607 360F-UT-608 360F-UT-609 360F-UT-610 360F-UT-611 360F-UT-612 360F-UT-617 360F-UT-620
<u>36 Control Program</u>	
GC28-6812	IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM GUIDE TO SYSTEM USE
GC28-6814	IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM SYSTEMS PROGRAMMER'S GUIDE
GY28-6812	IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM SUPERVISOR AND JOB CONTROL PROGRAM LOGIC MANUAL PROGRAM NUMBERS 360F-IO-613 360F-CL-614
<u>37 BAS</u>	
GX28-6812	SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM - FORMATS FOR MACHINE-CHECK INTERRUPTION DIAGNOSTICS
<u>40 System Operation</u>	
GC28-6815	SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM OPERATOR'S GUIDE
<u>TOS (TAPE OPERATING SYSTEM) (20-40)</u>	
<u>20 General Information</u>	
GC24-5064	IBM SYSTEM/360 TAPE OPERATING SYSTEM, PROGRAMMING INDEX
GC24-5030	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS CONCEPTS AND FACILITIES
<u>21 Assembler</u>	
GC24-3414	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEM ASSEMBLER LANGUAGE
GY26-3642	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS ASSEMBLER (D) PROGRAM NUMBER 360M/N-AS-465
<u>24 COBOL</u>	
GC24-3433	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS COBOL LANGUAGE SPECIFICATIONS COBOL DOS PROGRAM NUMBER 360N-CB-452 COBOL TOS PROGRAM NUMBER 360M-CB-402
GC24-5025	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS COBOL PROGRAMMER'S GUIDE PROGRAM NUMBERS 360N-CB-452 360M-CB-402
GY24-5025	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS COBOL D 360M-CB-402 VERSION 2 360N-CB-452 VERSION 2

ORDER NUMBER	TITLE
<b>25 FORTRAN</b>	
GC24-5038	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS BASIC FORTRAN IV PROGRAMMERS GUIDE PROGRAM NUMBERS 360N-FO-451 AND 360M-FO-409
GC28-6629	IBM SYSTEM/360 BASIC FORTRAN IV LANGUAGE
GY24-5032	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS FORTRAN IV PROGRAM NUMBER 360M-FO-409 PROGRAM NUMBER 360N-FO-451
<b>28 RPG</b>	
GC26-3570	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS REPORT PROGRAM GENERATOR SPECIFICATIONS
GY26-3701	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEM REPORT PROGRAM GENERATOR PROGRAM NUMBERS 360N-RG-460 (DISK) 360M-RG-408 (TAPE)
<b>29 PL/I</b>	
GC24-9005	DOS AND TOS PL/I (D) COMPILER PROGRAMMER'S GUIDE PL/I - PROGRAMMER'S GUIDE
GC28-8202	TNL TO IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS PL/I SUBSET REFERENCE MANUAL
GX20-1749	IBM SYSTEM/360 DOS/TOS REFERENCE CARD PL/I
GY33-9010	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS, PL/I SUBSET LANGUAGE, PROGRAM LOGIC MANUAL, VOLUME 1 OF 3 PROGRAM NUMBERS: 360N-PL-464 (DOS) 360M-PL-410 (TOS)
GY33-9011	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS, PL/I SUBSET LANGUAGE, VOLUME 2 OF 3 PROGRAM NUMBERS: 360N-PL-464 (DOS) 360M-PL-410 (TOS) PROGRAM LOGIC MANUAL
GY33-9012	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS, PL/I SUBSET LANGUAGE, VOLUME 3 OF 3 PROGRAM LOGIC MANUAL PROGRAM NUMBERS: 360N-PL-464 (DOS) 360M-PL-410 (TOS)
GY33-9013	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS PL/I SUBSET LIBRARY ROUTINES - PROGRAM LOGIC MANUAL PROGRAM NUMBERS 360N-PL-464 (DOS), 360M-PL-410 (TOS)
<b>30 Access Methods, Data Management, I/O Control Programs</b>	
GC24-3430	IBM SYSTEM/360, TAPE OPERATING SYSTEM, DATA MANAGEMENT CONCEPTS
GC24-5035	IBM SYSTEM/360, TAPE OPERATING SYSTEM, SUPERVISOR AND INPUT/OUTPUT MACROS
GC24-5070	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT, BASIC OPERATING SYSTEM, TAPE OPERATING SYSTEM, DISK OPERATING SYSTEM, TAPE LABELS SYSTEMS REFERENCE LIBRARY MANUAL
GY24-5010	IBM SYSTEM/360, TAPE OPERATING SYSTEM, LOGICAL IOCS, PROGRAM NUMBER 360M-IO-404, VERSION 2.1
<b>32 Utilities</b>	
GC24-3465	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS UTILITY PROGRAMS SPECIFICATIONS PROGRAM NUMBERS 360N-UT-461, 462, 463
GC24-5042	DOS AND TOS UTILITY MACROS - SYSTEMS REFERENCE LIBRARY MANUAL - PROGRAM NUMBERS 360N-UT-411 AND 360N-UT-471
GY24-5019	IBM SYSTEM/360 TAPE OPERATING SYSTEM UTILITY PROGRAMS PROGRAM NUMBER 360M-UT-403
GY24-5045	DOS AND TOS UTILITIES MACROS - PROGRAM LOGIC MANUAL PROGRAM NUMBERS 360M-UT-411, 360N-UT-471
<b>33 Sort/Merge</b>	
GC24-3438	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS TAPE SORT/MERGE PROGRAM PROGRAM NUMBERS 360M-SM-400 360N-SM-400
GC24-3439	IBM 1401/1460 TIMING PROGRAM FOR IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS TAPE/SORT MERGE PROGRAM PROGRAM NUMBER 1401-LM-010 (2401-2404) PROGRAM NUMBER 1401-LM-012 (2415)
GY24-5016	IBM SYSTEM/360 BASIC OPERATING SYSTEM SORT/MERGE (16K TAPE) PROGRAM NUMBER 360B-SM-400
<b>34 System Planning, Generation, Installation, SMF</b>	
GC24-5015	IBM SYSTEM/360 TAPE OPERATING SYSTEM, SYSTEM GENERATION AND MAINTENANCE
GC24-5020	IBM SYSTEM/360, TAPE OPERATING SYSTEM, PERFORMANCE ESTIMATES
<b>36 Control Program</b>	
GC24-5034	IBM SYSTEM/360 TAPE OPERATING SYSTEM, SYSTEM CONTROL AND SYSTEM SERVICE PROGRAMS
GY24-5022	IBM SYSTEM/360, TAPE OPERATING SYSTEM, SYSTEM CONTROL, PROGRAM NUMBER 360M-CL-405, VERSION 2
<b>37 RAS</b>	
GC24-3441	IBM SYSTEM/360 TAPE OPERATING SYSTEM AUTOTEST SPECIFICATIONS PROGRAM NUMBER 360M-PT-407
GC24-5066	IBM SYSTEM/360, DISK AND TAPE OPERATING SYSTEM, ON-LINE TEST EXECUTIVE PROGRAM, SPECIFICATIONS AND OPERATING GUIDE, PROGRAM NUMBER FOR DOS 360N-DN-401 TOS 360M-DN-410
GY24-5026	IBM SYSTEM/360 TAPE OPERATING SYSTEM AUTOTEST PROGRAM NUMBER 360M-PT-407
GY24-5056	IBM SYSTEM/360 TAPE OPERATING SYSTEM ON-LINE TEST EXECUTIVE PROGRAM - PROGRAM NUMBER 360M-DN-410

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<u>40 System Operation</u>	
GC24-5021	IBM SYSTEM/360, TAPE OPERATING SYSTEM, OPERATING GUIDE
<u>BOS (BASIC OPERATING SYSTEM) (20-40)</u>	
<u>20 General Information</u>	
GC24-5041	IBM SYSTEM/360 BASIC OPERATING SYSTEM, MASTER INDEX
<u>21 Assembler</u>	
GC24-3361	IBM SYSTEM/360 BASIC OPERATING SYSTEM ASSEMBLER WITH INPUT/OUTPUT MACROS SPECIFICATIONS PROGRAM NUMBER 360B-AS-309
GC24-3364	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC OPERATING SYSTEM MACRO DEFINITION LANGUAGE
GY24-5000	IBM SYSTEM/360 BASIC OPERATING SYSTEM DISK ASSEMBLER PROGRAM NUMBER 360B-AS-309
<u>28 RPG</u>	
GC24-3387	IBM SYSTEM/360 BASIC OPERATING SYSTEM REPORT PROGRAM GENERATOR SPECIFICATIONS PROGRAM NUMBER 360B-RG-307
GY24-5005	IBM SYSTEM/360 BASIC OPERATING SYSTEM REPORT PROGRAM GENERATOR (8K DISK) PROGRAM NUMBER 360B-RG-307
<u>30 Access Methods, Data Management, I/O Control Programs</u>	
GC24-5070	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT, BASIC OPERATING SYSTEM, TAPE OPERATING SYSTEM, DISK OPERATING SYSTEM, TAPE LABELS SYSTEMS REFERENCE LIBRARY MANUAL
GY24-5003	IBM SYSTEM/360 BASIC OPERATING SYSTEM LOGICAL IOCS PROGRAM NUMBER 360B-IO-303 (SECTIONS 1 AND 2) PROGRAM NUMBER 360B-IO-304 (SECTION 3) PROGRAM NUMBER 360B-IO-305 (SECTION 4)
<u>32 Utilities</u>	
GC24-3409	IBM SYSTEM/360 BASIC OPERATING SYSTEM UTILITY PROGRAMS SPECIFICATIONS PROGRAM NUMBERS 360B-UT-300, 360B-UT-301
<u>33 Sort/Merge</u>	
GC24-3321	IBM SYSTEM/360 BASIC OPERATING SYSTEM SORT/MERGE PROGRAM SPECIFICATIONS PROGRAM NUMBER 360B-SH-308
GC24-3377	IBM 1401/1440 TIMING PROGRAM FOR IBM BASIC OPERATING SYSTEM/360 SORT/MERGE PROGRAM PROGRAM 1401-LH-079
GY24-5001	IBM BASIC OPERATING SYSTEM/360 (8K DISK) SORT/MERGE PROGRAM NUMBER 360B-SH-308
<u>36 Control Program</u>	
GC24-3372	IBM SYSTEM/360 BASIC OPERATING SYSTEM PROGRAMMER'S GUIDE
GC26-3627	IBM SYSTEM/360 BASIC OPERATING SYSTEM 1070 PROCESS COMMUNICATION SUPERVISOR OPERATING GUIDE PROGRAM NUMBER 360B-SV-032
GY24-5002	IBM BASIC OPERATING SYSTEM/360 SYSTEM CONTROL (8K DISK) PROGRAM NUMBER 360B-CL-302 PROGRAM LOGIC MANUAL
<u>37 RAS</u>	
GC24-3378	IBM SYSTEM/360 BASIC OPERATING SYSTEM SPECIFICATIONS AUTOTEST (8K DISK) PROGRAM NUMBER 360B-PT-306
<u>38 Remote Job Entry</u>	
GY30-2006	IBM SYSTEM/360 BASIC OPERATING SYSTEM, BASIC PROGRAMMING SUPPORT REMOTE JOB ENTRY WORK STATION PROGRAM PROGRAM NUMBERS 360B-CQ-311-(BOS), 360P-CQ-218-(BPS) PROGRAM LOGIC MANUAL
<u>40 System Operation</u>	
GC24-3450	IBM SYSTEM/360 BASIC OPERATING SYSTEM OPERATING GUIDE SYSTEMS REFERENCE LIBRARY
GC24-5024	IBM SYSTEM/360 BASIC OPERATING SYSTEM OPERATOR MESSAGES SYSTEMS REFERENCE LIBRARY
<u>BPS (BASIC PROGRAMMING SUPPORT) (20-40)</u>	
<u>20 General Information</u>	
GC24-5067	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT MASTER INDEX
<u>21 Assembler</u>	
GC24-3355	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT ASSEMBLER WITH INPUT/OUTPUT MACROS (TAPE) SPECIFICATIONS SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBER 360P-AS-021
GC24-3364	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC OPERATING SYSTEM MACRO DEFINITION LANGUAGE
GC28-6503	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT (CARD) BASIC ASSEMBLER AND BASIC UTILITY PROGRAMS SPECIFICATIONS AND OPERATING PROCEDURES - SYSTEMS REFERENCE LIBRARY PROGRAM NUMBERS: 360P-AS-021, 360P-UT-017, 360P-UT-018, 360P-UT-019, 360P-UT-020

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GY24-5012	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT TAPE ASSEMBLER PROGRAM NUMBER 360P-AS-091
**GY24-5014	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC ASSEMBLER, PROGRAM LOGIC MANUAL PROGRAM NUMBER 360P-AS-021
<u>25 FORTRAN</u>	
GC21-5000	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT FORTRAN IV (CARD) PROGRAMMER'S GUIDE PROGRAM NUMBER 360P-FO-205
GC21-9040	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SPECIFICATIONS FORTRAN IV (16K CARD)
GC20-6583	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT FORTRAN IV (TAPE) PROGRAMMER'S GUIDE PROGRAM NUMBER 360P-FO-031
GC20-6629	IBM SYSTEM/360 BASIC FORTRAN IV LANGUAGE
GY21-0001	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT FORTRAN IV (16K CARD) PROGRAM LOGIC MANUAL PROGRAM NUMBER 360P-FO-205
<u>28 RPG</u>	
GC24-3374	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SPECIFICATIONS REPORT PROGRAM GENERATOR (CARD)
GC24-3418	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT REPORT PROGRAM GENERATOR (TAPE) SPECIFICATIONS PROGRAM NUMBER 360P-RG-201
GC24-3464	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT REPORT PROGRAM GENERATOR (CARD) OPERATING GUIDE SYSTEMS REFERENCE LIBRARY
GY24-5037	IBM SYSTEM/360, BASIC PROGRAMMING SUPPORT, REPORT PROGRAM GENERATOR FOR PUNCHED CARD EQUIPMENT PROGRAM NUMBER 360P-RG-200
<u>30 Access Methods, Data Management, I/O Control Programs</u>	
GC24-3400	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT INPUT/OUTPUT 1231 SPECIFICATIONS AND OPERATING GUIDE PROGRAM NUMBER: 360P-IO-060
GC24-3398	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT INPUT/OUTPUT 1412/1419 SPECIFICATIONS AND OPERATING GUIDE PROGRAM NUMBER 360P-IO-058
GC24-3437	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT INPUT/OUTPUT 1418/1428 SPECIFICATIONS AND OPERATING GUIDE PROGRAM NUMBER 360P-IO-059
GC24-5070	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT, BASIC OPERATING SYSTEM, TAPE OPERATING SYSTEM, DISK OPERATING SYSTEM, TAPE LABELS SYSTEMS REFERENCE LIBRARY MANUAL
GY24-5007	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT PAPER DOCUMENT PROGRAM NUMBERS 360P-IO-059, 360P-IO-058
<u>32 Utilities</u>	
GC21-5001	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT DISTRIBUTION PROGRAM SPECIFICATIONS AND OPERATING GUIDE PROGRAM NUMBER 360P-UT-208
GC24-3363	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT DASD UTILITY PROGRAMS SPECIFICATIONS
GC24-3392	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT DASD UTILITY PROGRAMS OPERATING GUIDE
GC24-3396	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT UNIVERSAL CHARACTER SET UTILITY PROGRAM OPERATING GUIDE PROGRAM NUMBER 360P-UT-048
GC24-5026	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT CARD AND TAPE UTILITY PROGRAMS SPECIFICATIONS
GC24-5027	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT CARD AND TAPE UTILITY PROGRAMS OPERATING GUIDE
GC24-5069	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT MODULAR FILE MAINTENANCE PROGRAM SPECIFICATIONS AND OPERATING GUIDE PROGRAM NUMBER 360P-UT-219
GX20-1709	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT - BASIC UTILITIES REFERENCE CARD PROGRAM NUMBERS 360P-UT-017, 360P-UT-018, 360P-UT-019, 360P-UT-020
GY21-0004	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT DISTRIBUTION PROGRAM, PROGRAM NUMBER 360P-UT-208
GY24-5013	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT UNIVERSAL CHARACTER SET UTILITY PROGRAM PROGRAM NUMBER 360P-UT-048
GY24-5015	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC UTILITIES PROGRAM LOGIC MANUAL
GY24-5096	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT MODULAR FILE MAINTENANCE PROGRAM - PROGRAM NUMBER 360P-UT-219
<u>33 Sort/Merge</u>	
GC24-3320	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SORT/MERGE PROGRAMS SPECIFICATIONS PROGRAMS: 1 - CHANNEL - 360P-SH-043 2 - CHANNEL - 360P-SH-044
GC24-3345	IBM 1401/1460 TIMING PROGRAMS FOR IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SORT/MERGE PROGRAMS (8K TAPE) PROGRAM 1401-LM-078, VERSION 2 (2401-2404) PROGRAM 1401-LM-080, VERSION 1 (2415)
GC24-3413	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SORT/MERGE PROGRAMS OPERATING GUIDE PROGRAMS: 1 - CHANNEL - 360P-SH-043 2 - CHANNEL - 360P-SH-044
<u>34 System Planning, Generation, Installation, SMP</u>	
GC24-5061	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC TAPE SYSTEM SYSTEM GENERATION AND MAINTENANCE PROGRAM NUMBER 360P-AS-091

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<b>36 Control Program</b>	
GC24-3354	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC TAPE SYSTEM PROGRAMMER'S GUIDE PROGRAM NUMBER 360P-AS-091
GY24-5010	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC TAPE SYSTEM SYSTEM CONTROL AND IOCS PROGRAM NUMBER 360P-AS-091
<b>37 RAS</b>	
GC24-3343	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT AUTOTEST SPECIFICATIONS (8K TAPE) PROGRAM NUMBER 360P-PT-045
GC24-3417	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT AUTOTEST OPERATING GUIDE PROGRAM NUMBER 360P-PT-045
<b>38 Remote Job Entry</b>	
GY30-2006	IBM SYSTEM/360 BASIC OPERATING SYSTEM, BASIC PROGRAMMING SUPPORT REMOTE JOB ENTRY WORK STATION PROGRAM PROGRAM NUMBERS 360B-CQ-311-(BOS), 360P-CQ-218-(BPS) PROGRAM LOGIC MANUAL
<b>40 System Operation</b>	
GC24-3391	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC TAPE SYSTEM OPERATING GUIDE PROGRAM NUMBER 360P-AS-091 RPG PROGRAM NUMBER 360P-RG-201
<b>PROGRAM PRODUCTS AND OTHER LICENSED PROGRAMS (20-40)</b>	
<b>21 Assembler</b>	
GB21-0334	DOS TO OS ASSEMBLER LANGUAGE MACRO CONVERSION FIELD DEVELOPED PROGRAM AVAILABILITY NOTICE PROGRAM NUMBER 5798-AFL
SB21-0335	DOS TO OS ASSEMBLER LANGUAGE MACRO CONVERSION FIELD DEVELOPED PROGRAM PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-AFL
LB21-0336	DOS TO OS ASSEMBLER LANGUAGE MACRO CONVERSION - FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER 5798-AFL
LCB6-3772	IBM SYSTEM/360 OS ASSEMBLER H - PROGRAM NUMBER 5734-AS1
GC26-3735	IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H DESIGN OBJECTIVES SHEET, PROGRAM NUMBER 5734-AS1
GC26-3743	IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H SPECIFICATION SHEET, PROGRAM NUMBER 5734-AS1
GC26-3758	IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER (H) PROGRAM PRODUCT GENERAL INFORMATION PROGRAM NUMBER 5734-AS1
SC26-3759	IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H PROGRAMMER'S GUIDE PROGRAM NUMBER 5734-AS1
SC26-3760	IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H SYSTEM INFORMATION (PROGRAM NUMBER 5734-AS1)
SC26-3770	IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H MESSAGES PROGRAM NUMBER 5734-AS1
GC26-3771	IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H LANGUAGE SPECIFICATIONS PROGRAM NUMBER 5734-AS1
LY26-3760	IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5734-AS1
<b>22 APL</b>	
GH20-0683	APL/360 USER'S MANUAL PROGRAM NUMBERS 5734-XM1 AND 5736-XM1
SH20-0684	APL/360 OS OPERATIONS AND INSTALLATION MANUAL PROGRAM NUMBER 5734-XM1
GH20-0689	APL/360 PRIMER - PROGRAM NUMBERS 5734-XM1 AND 5736-XM1
LYB0-0470	APL/360-OS ASSEMBLER LISTINGS PROGRAM NUMBER 5734-XM1, FEATURE CODE 8301
GH20-0683	APL/360 USER'S MANUAL PROGRAM NUMBERS 5734-XM1 AND 5736-XM1
SH20-0685	APL/360 OPERATIONS MANUAL PROGRAM NUMBER 5736-XM1
SH20-0686	APL/360-DOS SYSTEM GENERATION MANUAL PROGRAM NUMBER 5736-XM1
GH20-0689	APL/360 PRIMER - PROGRAM NUMBERS 5734-XM1 AND 5736-XM1
LYB0-0471	APL/360-DOS ASSEMBLER LISTINGS PROGRAM NUMBER 5736-XM1
GH20-0850	APL/360 - OS (5734-XM6) AND APL/360 - DOS (5736-XM6)
SH20-0890	APL/360 - OS OPERATIONS AND INSTALLATION MANUAL, PROGRAM NUMBER 5734-XM6
GH20-0906	APL/360-OS (5734-XM6), APL/360-DOS (5736-XM6), USER'S MANUAL
GH20-4047	APL/360-OS PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-XM6
LYB0-0625	APL/360-OS ASSEMBLY LISTINGS, PROGRAM NUMBER 5734-XM6, FEATURE CODE 8092, FE SERVICE NUMBER 200156
LY20-0678	APL/360-OS AND APL/360-DOS SYSTEM MANUAL FEATURE NUMBERS 8091, 8034 PROGRAM NUMBERS 5734-XM6, 5736-XM6
GH20-0850	APL/360 - OS (5734-XM6) AND APL/360 - DOS (5736-XM6)
GH20-0906	APL/360-OS (5734-XM6), APL/360-DOS (5736-XM6), USER'S MANUAL
SH20-0938	APL/360 - DOS OPERATIONS AND INSTALLATION MANUAL, PROGRAM NUMBER 5736-XM6
GH20-4046	APL/360-DOS PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-XM6
LYB0-0626	APL/360 - DOS ASSEMBLY LISTINGS, PROGRAM NUMBER 5736-XM6, FEATURE CODE 8065, FE SERVICE NUMBER 200157

ORDER NUMBER	TITLE
LY20-0678	APL/360-OS AND APL/360-DOS SYSTEM MANUAL FEATURE NUMBERS 8091, 8034 PROGRAM NUMBERS 5734-XM6, 5736-XM6
<b>24 COBOL</b>	
GB21-0387	HONEYWELL 200 SERIES COBOL TO IBM ANS COBOL CONVERSION AIDS FDP AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AGC
GB21-0490	UNIVAC 9300 COBOL TO IBM ANS COBOL CONVERSION AID FDP AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AHP
GC28-6401	IBM SYSTEM/360 DISK OPERATING SYSTEM AMERICAN NATIONAL STANDARD SUBSET COBOL COMPILER AND LIBRARY - PROGRAM NUMBER 5736-CB1
GC28-6402	IBM SYSTEM/360 DISK OPERATING SYSTEM: AMERICAN NATIONAL STANDARD SUBSET COBOL COMPILER GENERAL INFORMATION
GC28-6406	IBM SYSTEM/360 OPERATING SYSTEM FULL AMERICAN NATIONAL STANDARD (ANS) COBOL COMPILER VERSION 3 DESIGN OBJECTIVES SHEET, PROGRAM NUMBER 5734-CB1
GC28-6407	IBM SYSTEM/360 OPERATING SYSTEM AMERICAN NATIONAL STANDARD FULL COBOL COMPILER AND LIBRARY VERSION 3 GENERAL INFORMATION PROGRAM NUMBER 5734-CB1
**GC28-6408	OS FULL AMERICAN NATIONAL STANDARD COBOL COMPILER VERSION 4 PROGRAM PRODUCT DESIGN OBJECTIVES - PROGRAM NUMBER 5734-CB2
GC28-6420	IBM SYSTEM/360 DISK OPERATING SYSTEM AMERICAN NATIONAL STANDARD FULL COBOL COMPILER VERSION 3 PROGRAM NUMBER 5736-CB2
GC28-6421	IBM SYSTEM/360 DISK OPERATING SYSTEM AMERICAN NATIONAL STANDARD FULL COBOL COMPILER VERSION 3 AND ASSOCIATED COBOL OBJECT-TIME SUBROUTINE LIBRARY GENERAL INFORMATION
GC28-6428	IBM SYSTEM/360 DISK OPERATING SYSTEM AMERICAN NATIONAL STANDARD FULL COBOL OBJECT-TIME SUBROUTINE LIBRARY - PROGRAM NUMBER 5736-LM2
**GC28-6431	OS FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY, VERSION 4, PLANNING GUIDE - PROGRAM PRODUCT 5734-CB2
SC28-6432	IBM SYSTEM/360 OPERATING SYSTEM FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY, VERSION 3, INSTALLATION REFERENCE MANUAL, PROGRAM NUMBER 5734-CB1
GC28-6436	IBM SYSTEM/360 OS FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY, VERSION 3, PROGRAM PRODUCT SPECIFICATIONS (PPS) - PROGRAM NUMBER 5734-CB1
SC28-6437	IBM SYSTEM/360 OPERATING SYSTEM FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY, VERSION 3, PROGRAMMER'S GUIDE - PROGRAM NUMBER 5734-CB1
SC28-6438	IBM SYSTEM/360 DISK OPERATING SYSTEM SUBSET AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY INSTALLATION REFERENCE MATERIAL - PROGRAM NUMBER 5736-CB1
SC28-6439	IBM SYSTEM/360 DISK OPERATING SYSTEM SUBSET AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY PROGRAMMER'S GUIDE - PROGRAM NUMBER 5736-CB1
SC28-6440	IBM SYSTEM/360 OPERATING SYSTEM FULL AMERICAN NATIONAL STANDARD COBOL, VERSION 3, MESSAGES PROGRAM NUMBER 5734-CB1
SC28-6441	IBM SYSTEM/360 DISK OPERATING SYSTEM: FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY, VERSION 3 SYSTEM REFERENCE LIBRARY PROGRAMMER'S GUIDE PROGRAM NUMBERS 5736-CB2, 5736-LM2
SC28-6442	IBM SYSTEM/360 DISK OPERATING SYSTEM: FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY, VERSION 3 SYSTEM REFERENCE LIBRARY INSTALLATION REFERENCE MATERIAL PROGRAM NUMBERS 5736-CB2, 5736-LM2
GC28-6443	IBM SYSTEM/360 DISK OPERATING SYSTEM FULL AMERICAN NATIONAL STANDARD COBOL COMPILER VERSION 3 SYSTEM REFERENCE LIBRARY PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-CB2
GC28-6444	IBM SYSTEM/360 DISK OPERATING SYSTEM: FULL AMERICAN NATIONAL STANDARD COBOL OBJECT TIME SUBROUTINE LIBRARY PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-LM2
SC28-6445	IBM SYSTEM/360 DISK OPERATING SYSTEM: FULL AMERICAN NATIONAL STANDARD COBOL VERSION 3 MESSAGES - SYSTEM REFERENCE LIBRARY MANUAL - PROGRAM NUMBERS 5736-CB2, 5736-LM2
SC28-6446	IBM SYSTEM/360 DISK OPERATING SYSTEM SUBSET AMERICAN NATIONAL STANDARD COBOL MESSAGES - PROGRAM NUMBER 5736-CB1
GC28-6450	IBM SYSTEM/360 DISK OPERATING SYSTEM SUBSET AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY (PROGRAM PRODUCT SPECIFICATIONS) PROGRAM NUMBER 5736-CB1
GC28-6461	IBM DISK OPERATING SYSTEM SUBSET AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY PROGRAM PRODUCT DESIGN OBJECTIVE - PROGRAM NUMBER 5736-CB1
**GC28-6463	IBM OS COBOL INTERACTIVE DEBUG PROGRAM PRODUCT DESIGN OBJECTIVE - PROGRAM NUMBER 5734-CB4
GH20-0920	CONTROL PROGRAM-67 ONLINE COBOL SYMBOLIC DEBUG PROGRAM NUMBER 5799-AAE - APPLICATION DESCRIPTION MANUAL
SH20-0921	CONTROL PROGRAM - 67 ONLINE COBOL SYMBOLIC DEBUG USER'S GUIDE - PROGRAM NUMBER 5799-AAE
SH20-0922	CONTROL PROGRAM - 67 ONLINE COBOL SYMBOLIC DEBUG INSTALLATION MANUAL, PROGRAM NUMBER 5799-AAE
SH20-0923	CONTROL PROGRAM - 67 ONLINE COBOL SYMBOLIC DEBUG OPERATING SYSTEM/360 IN A VIRTUAL MACHINE, PROGRAM NUMBER 5799-AAE
GH20-4101	ONLINE COBOL SYMBOLIC DEBUG FOR IBM CP-67 SYSTEMS (RPQ) PROGRAM NUMBER 5799-AAE - REFERENCE PRPQ AA0476 PROGRAM PRODUCT SPECIFICATION SHEET
LY20-0635	CONTROL PROGRAM-67 ONLINE COBOL SYMBOLIC DEBUG SYSTEM MANUAL PROGRAM NUMBER 5799-AAE, FEATURE NUMBER 8006
LYC7-5023	SYSTEM/360 OPERATING SYSTEM AMERICAN NATIONAL STANDARD (ANS) COBOL VERSION 3 LISTINGS - PROGRAM NUMBER 5734-CB1
LYC7-5030	SYSTEM/360 DISK OPERATING SYSTEM ANS COBOL COMPILER VERSION 3 PROGRAM LISTING MICROFICHE PROGRAM NUMBER 5736-CB2
LYC7-5031	SYSTEM/360 DISK OPERATING SYSTEM ANS COBOL LIBRARY VERSION 3 PROGRAM PRODUCT LISTING MICROFICHE PROGRAM NUMBER 5736-LM2
LYC7-5038	SYSTEM/360 OPERATING SYSTEM FULL ANS COBOL COMPILER VERSION 3 LISTINGS - PROGRAM NUMBER 5734-CB1

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LYC7-5041	SYSTEM/360 DISK OPERATING SYSTEM SUBSET AND COBOL COMPILER AND LIBRARY - MICROFICHE - PROGRAM PRODUCT 5736-CB1
LY28-6407	IBM SYSTEM/360 OPERATING SYSTEM FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY, VERSION 3 PROGRAM LOGIC MANUAL, PROGRAM NUMBER 5734-CB1
LY28-6412	IBM SYSTEM/360 DISK OPERATING SYSTEM FULL AMERICAN NATIONAL STANDARD COBOL COMPILER, VERSION 3, PROGRAM LOGIC MANUAL PROGRAM NUMBER 5736-CB2
LY28-6413	IBM SYSTEM/360 DISK OPERATING SYSTEM FULL AMERICAN NATIONAL STANDARD COBOL SUBROUTINE LIBRARY, VERSION 3 PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5736-LM2
LY28-6414	IBM SYSTEM/360 DISK OPERATING SYSTEM SUBSET AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5736-CB1
<b>25 FORTRAN</b>	
GH20-0896	FORTRAN CONVERSION AID PROGRAM, GENERAL INFORMATION MANUAL PROGRAM NUMBER 5799-AAJ, REFERENCE NUMBER FA1287
SH20-0897	FORTRAN CONVERSION AID PROGRAM, PROGRAM DESCRIPTION AND OPERATIONS MANUAL, PROGRAM NUMBER 5799-AAJ, REFERENCE NUMBER FA1287
LY20-0600	FORTRAN CONVERSION AID PROGRAM (SYSTEM MANUAL, PROGRAM NUMBER 5799-AAJ, FEATURE CODE 8001, REFERENCE NUMBER FA1287
SC28-6868	IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H EXTENDED PLUS COMPILER & LIBRARY USER SUPPLEMENT - PROGRAM NUMBER 5799-AAW
LY28-6415	IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H EXTENDED PLUS) COMPILER AND LIBRARY PROGRAM LOGIC SUPPLEMENT (PROGRAMMING REQUEST FOR PRICE QUOTATION) PROGRAM NUMBER 5799-AAW
GC28-6832	IBM SYSTEM/360 OPERATING SYSTEM CODE AND GO FORTRAN PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-FO1
GC28-6844	IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY MOD 1 DESIGN OBJECTIVES - PROGRAM NUMBER 5734-LM1
GC28-6846	IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY MOD 1 DESIGN OBJECTIVES - PROGRAM NUMBER 5734-FO3
GC28-6847	IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY (MOD II) PROGRAM NUMBER 5734-LM3
GC28-6848	IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H EXTENDED) COMPILER AND FORTRAN IV LIBRARY (MOD II) GENERAL INFORMATION PROGRAM NUMBERS 5734-FO3, 5734-LM3
SC28-6851	IBM SYSTEM/360 DISK OPERATING SYSTEM - FORTRAN IV LIBRARY ASCII SUPPORT: PROGRAMMER'S GUIDE SUPPLEMENT PROGRAM NUMBER 5736-LM1
SC28-6852	IBM SYSTEM/360 OPERATING SYSTEM: FORTRAN IV (H EXTENDED) COMPILER, PROGRAMMER'S GUIDE - PROGRAM NUMBER 5734-FO3 5734-LM3
**SC28-6853	IBM SYSTEM/360 OPERATING SYSTEM CODE AND GO FORTRAN IV (GI) PROGRAMMER'S GUIDE, PROGRAM NUMBERS 5734-FO1, 5734-FO2, 5734-LM1
GC28-6854	IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (GI) PROCESSOR PROGRAM PRODUCT SPECIFICATIONS, PROGRAM NUMBER 5734-FO2
SC28-6858	IBM SYSTEM/360 FORTRAN IV LIBRARY (MODEL 1) INSTALLATION REFERENCE MATERIAL, PROGRAM NUMBER 5734-LM1
SC28-6859	IBM SYSTEM/360 OPERATING SYSTEM CODE AND GO FORTRAN PROCESSOR INSTALLATION REFERENCE MATERIAL PROGRAM NUMBER 5734-FO1
SC28-6861	IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H EXTENDED) COMPILER AND LIBRARY (MOD II) IBM MODULE II INSTALLATION REFERENCE MATERIAL - PROGRAM NUMBERS 5734-FO3, 5734-LM3
GC28-6862	IBM SYSTEM/360 OPERATING SYSTEM: FORTRAN IV (H EXTENDED) COMPILER PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-FO3
GC28-6863	IBM SYSTEM/360: FORTRAN IV LIBRARY (MODEL II) PROGRAM PRODUCT SPECIFICATIONS, PROGRAM NUMBER 5734-LM3
SC28-6864	IBM SYSTEM/360 OS: FORTRAN IV MATH AND SVC SUBPROGRAM SUPPLEMENT FOR MODE I and MODEL II LIBRARIES PROGRAM NUMBERS 5734-LM1, 5734-LM3
GC28-6865	IBM SYSTEM/360 OS: FORTRAN IV (H EXTENDED) COMPILER AND LIBRARY (MODEL II), MESSAGES - SYSTEM REFERENCE LIBRARY MANUAL, PROGRAM NUMBERS 5734-FO3, 5734-LM3
GC28-6872	SYSTEM/360 DISK OPERATING SYSTEM FORTRAN IV LIBRARY, OPTION 1 - PROGRAM PRODUCT DESIGN OBJECTIVE PROGRAM NUMBER 5746-LM3
**GC28-6882	DISK OPERATING SYSTEM FORTRAN IV LIBRARY OPTION 1 - PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5746-LM3
**SC28-6883	DOS FORTRAN IV LIBRARY OPTION/PROGRAMMER'S GUIDE SUPPLEMENT - PROGRAM PRODUCT 5746-LM3
GC28-8193	IBM SYSTEM/360 DISK OPERATING SYSTEM FORTRAN IV LIBRARY ASCII SUPPORT PROGRAM NUMBER 5736-LM1
GC28-8194	IBM SYSTEM/360 DISK OPERATING SYSTEM FORTRAN IV LIBRARY ASCII SUPPORT PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-LM1
LYC7-5012	SYSTEM/360 DISK OPERATING SYSTEM FORTRAN F LIBRARY PROGRAM PRODUCT LISTING MICROFICHE ASC II - PROGRAM NUMBER 5736-LM1
LYC7-5019	SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H EXTENDED) SOURCE LISTINGS - PROGRAM NUMBER 5734-FO3
LYC7-5020	SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY (MOD II) LISTINGS - PROGRAM NUMBER 5734-LM3
LYC7-5021	SYSTEM/360 OPERATING SYSTEM FORTRAN IV (G1) COMPILER PROGRAM PRODUCT LISTING MICROFICHE PROGRAM NUMBER 5734-FO2
LYC7-5022	SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY (MOD I) PROGRAM PRODUCT MICROFICHE - PROGRAM NUMBER 5734-LM1
LYC7-5036	SYSTEM/360 OPERATING SYSTEM FORTRAN IV CODE AND GO PROGRAM NUMBER 5734-FO1
LYC7-5042	SYSTEM/360 OPERATING SYSTEM FORTRAN H EXTENDED PLUS MICROFICHE - PROGRAM NUMBER 5799-AAW
**LYC7-5044	DOS FORTRAN IV LIBRARY OPTION I - MICROFICHE - PROGRAM NUMBER 5746-LM3
LY28-6408	IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY (MODEL I) PROGRAM LOGIC MANUAL, PROGRAM NUMBER 5734-LM1
LY28-6409	IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY MOD II PROGRAM LOGIC MANUAL, PROGRAM NUMBER 5734-LM3

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LY28-6846	IBM SYSTEM/360 OPERATING SYSTEM CODE AND GO FORTRAN PROCESSOR PROGRAM LOGIC MANUAL PROGRAM NUMBER 5734-F01
LY28-6856	IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (GI) COMPILER PLM PROGRAM NUMBER 5734-FO2
<b>28 RPG</b>	
GC21-5028	IBM DISK OPERATING SYSTEM RPG II PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-RG1
GC21-5052	IBM DISK OPERATING SYSTEM RPG II AUTO REPORT FEATURE GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5736-RG1
SC21-5056	IBM DOS RPG II AUTO REPORT FEATURE - REFERENCE MANUAL PROGRAM NUMBER 5736-RG1
LYB1-0450	DISK OPERATING SYSTEM/360 RPG II PROGRAM LISTING PROGRAM NUMBER 5736-RG1
LYC7-1317	IBM DISK OPERATING SYSTEM REPORT PROGRAM GENERATOR II AUTO REPORT FEATURE - PROGRAM LISTINGS - PROGRAM NUMBER 5736-RG1
**LY21-0014	IBM DOS RPG II LANGUAGE PROGRAM LOGIC MANUAL PROGRAM NUMBER 5736-RG1
<b>29 PL/I</b>	
GC33-0001	OS PL/I OPTIMIZING COMPILER: GENERAL INFORMATION MANUAL PROGRAM NUMBER 5734-PL1
GC33-0003	OS PL/I CHECKOUT COMPILER: GENERAL INFORMATION PROGRAM NUMBERS 5734-PL2, 5734-LM4
GC33-0004	DOS PL/I OPTIMIZING COMPILER: GENERAL INFORMATION MANUAL PROGRAM NUMBER 5736-PL1
SC33-0005	DOS PL/I OPTIMIZING COMPILER: LANGUAGE REFERENCE MANUAL PROGRAM NUMBER 5736-PL1
SC33-0006	OS PL/I OPTIMIZING COMPILER - PROGRAMMER'S GUIDE PROGRAM NUMBERS 5734-PL1, 5734-LM4, 5734-LM5
SC33-0007	SYSTEM/360 OPERATING SYSTEM PL/I CHECKOUT COMPILER PROGRAMMER'S GUIDE - PROGRAM NUMBERS 5734-PL2, 5734-LM5
SC33-0008	DISK OPERATING SYSTEM PL/I OPTIMIZING COMPILER: PROGRAMMER'S GUIDE - PROGRAM NUMBER 5736-PL1
SC33-0009	OS PL/I OPTIMIZING AND CHECKOUT COMPILER LANGUAGE REFERENCE MANUAL PROGRAM NUMBERS 5734-PL1, 5734-PL2, 5734-PL3
GC33-0010	IBM SYSTEM/360 DISK OPERATING SYSTEM DESIGN OBJECTIVES PL/I OPTIMIZING COMPILER - PROGRAM NUMBER 5736-PL1
GC33-0013	IBM SYSTEM/360 OPERATING SYSTEM PL/I OPTIMIZING COMPILER DESIGN OBJECTIVES - PROGRAM NUMBER 5734-PL1
GC33-0016	DOS PL/I OPTIMIZING COMPILER PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-PL1
GC33-0017	DOS PL/I RESIDENT LIBRARY PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-LM4
GC33-0018	DOS PL/I TRANSIENT LIBRARY PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-LM5
**SC33-0019	DISK OPERATING SYSTEM/360 PL/I OPTIMIZING COMPILER: EXECUTION LOGIC PROGRAM NUMBERS 5736-PL1, 5736-LM4, 5736-LM5
SC33-0020	DOS PL/I OPTIMIZING COMPILER: SYSTEM INFORMATION MANUAL PROGRAM NUMBERS 5736-PL1, 5736-LM4, AND 5736-LM5
SC33-0021	SYSTEM/360 DISK OPERATING SYSTEM PL/I OPTIMIZING COMPILER: MESSAGES MANUAL PROGRAM NUMBERS 5736-LM5, 5736-PL1
GC33-0022	SYSTEM/360 OS PL/I OPTIMIZING COMPILER PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-PL1
GC33-0023	OS PL/I RESIDENT LIBRARY - PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-LM4
GC33-0024	OS PL/I TRANSIENT LIBRARY - PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-LM5
SC33-0025	SYSTEM/360 OPERATING SYSTEM PL/I OPTIMIZING COMPILER: EXECUTION LOGIC MANUAL - PROGRAM NUMBER 5734-PL1
SC33-0026	SYSTEM/360 OPERATING SYSTEM PL/I OPTIMIZING COMPILER: SYSTEM INFORMATION - PROGRAM NUMBERS 5734-PL1, 5734-LM4, 5734-LM5
SC33-0027	OPERATING SYSTEM PL/I OPTIMIZING COMPILER: MESSAGES SYSTEM REFERENCE LIBRARY MANUAL PROGRAM NUMBERS 5734-PL1, 5734-LM5
GC33-0030	OS PL/I CHECKOUT COMPILER - PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-PL2
SC33-0031	SYSTEM/360 OPERATING SYSTEM PL/I OPTIMIZING COMPILER SYSTEM INFORMATION SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBERS 5734-PL2, 5734-LM5
SC33-0032	SYSTEM/360 OPERATING SYSTEM PL/I CHECKOUT COMPILER EXECUTION LOGIC MANUAL - PROGRAM NUMBERS 5734-PL2 5734-LM5
SC33-0034	SYSTEM/360 OPERATING SYSTEM PL/I CHECKOUT COMPILER: MESSAGES MANUAL - PROGRAM NUMBERS 5734-PL2, 5734-LM5
SX33-6001	DISK OPERATING SYSTEM/360 REFERENCE CARD PL/I OPTIMIZING COMPILER KEYWORDS
SX33-6002	OS PL/I OPTIMIZING AND CHECKOUT COMPILERS: KEYWORDS, TERMINAL COMMANDS, AND COMPILER OPTIONS REFERENCE CARD - PROGRAM NUMBERS 5734-PL1, PL2, PL3
LYC7-2500	SYSTEM/360 OPERATING SYSTEM PL/I CHECKOUT COMPILER PROGRAM LISTING - PROGRAM NUMBER 5734-PL2
LYC7-2501	DISK OPERATING SYSTEM/360 PL/I RESIDENT LIBRARY - ASSEMBLY LISTING MICROFICHE PROGRAM NUMBER 5736-LM4
LYC7-2502	DISK OPERATING SYSTEM/360 PL/I TRANSIENT LIBRARY ASSEMBLY LISTING MICROFICHE - PROGRAM NUMBER 5736-LM5
LYC7-2503	DISK OPERATING SYSTEM/360 PL/I OPTIMIZING COMPILER ASSEMBLY LISTING MICROFICHE - PROGRAM NUMBER 5736-PL1
LYC7-2504	SYSTEM/360 OPERATING SYSTEM PL/I RESIDENT LIBRARY MICROFICHE - PROGRAM NUMBER 5734-LM4
LYC7-2505	SYSTEM/360 OPERATING SYSTEM TRANSIENT LIBRARY - MICROFICHE PROGRAM NUMBER 5734-LM5
LYC7-2506	SYSTEM/360 OPERATING SYSTEM PL/I OPTIMIZING COMPILER MICROFICHE LISTINGS - PROGRAM NUMBER 5734-PL1
LY33-6007	OS PL/I OPTIMIZING COMPILER: PROGRAM LOGIC MANUAL PROGRAM NUMBER 5734-PL1
LY33-6008	SYSTEM/360 OPERATING SYSTEM PL/I RESIDENT LIBRARY: PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5734-LM4
LY33-6009	OS PL/I TRANSIENT LIBRARY: PROGRAM LOGIC MANUAL PROGRAM NUMBER 5734-LM5

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LY33-6010	DOS PL/I OPTIMIZING COMPILER: PROGRAM LOGIC MANUAL PROGRAM NUMBER 5736-PL1
LY33-6011	DOS PL/I RESIDENT LIBRARY: PROGRAM LOGIC MANUAL PROGRAM NUMBER 5736-LM4
LY33-6012	DOS PL/I TRANSIENT LIBRARY - PROGRAM LOGIC MANUAL PROGRAM NUMBER 5736-LM5
LY33-6013	OS PL/I CHECKOUT COMPILER PROGRAM LOGIC MANUAL PROGRAM NUMBER 5734-PL2
LY33-6014	SYSTEM/360 OPERATING SYSTEM PL/I CHECKOUT COMPILER PROGRAM LOGIC, VOLUME 2 OF 2 - PROGRAM NUMBER 5734-PL2

30 Access Methods, Data Management, I/O Control Programs

GB21-0061	MINIMUM TELEPROCESSING COMMUNICATIONS SYSTEM AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AAY
SB21-0062	MINIMUM TELEPROCESSING COMMUNICATIONS SYSTEM MANUAL PROGRAM NUMBER 5798-AAY
LB21-0063	MINIMUM TELEPROCESSING COMMUNICATIONS SYSTEM MANUAL, PROGRAM NUMBER 5798-AAY
GB21-0238	FIELD DEVELOPED PROGRAM - SYSTEMS GUIDE DOS 2311-2314/19 DASD DEVICE INDEPENDENCE ROUTINES AVAILABILITY NOTICE - PROGRAM NUMBER 5798-ADT
SB21-0239	DOS 2311-2314/19 DASD DEVICE INDEPENDENCE ROUTINES PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-ADT
LB21-0240	DOS 2311-2314/19 DASD DEVICE INDEPENDENCE ROUTINES SYSTEMS GUIDE - PROGRAM NUMBER 5798-ADT
GB21-0411	GRAPHPAK - INTERACTIVE GRAPHICS PACKAGE FOR APL/360 FIELD DEVELOPED PROGRAMS-AVAILABILITY NOTICE PROGRAM NUMBER 5798-AGK
SB21-0412	GRAPHPAK - INTERACTIVE GRAPHICS PACKAGE FOR APL/360 FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-AGK
LB21-0413	GRAPHPAK - INTERACTIVE GRAPHICS PACKAGE FOR APL/360 FIELD DEVELOPED PROGRAM-SYSTEMS GUIDE PROGRAM NUMBER 5798-AGK
**GB21-0620	3270 FORHAT MACRO FOR OUTPUT DATA STREAMS FDP - AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AKL
**SB21-0621	3270 FORHAT MACRO FOR OUTPUT DATA STREAMS FDP - PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AKL
**LB21-0622	3270 FORHAT MACRO FOR OUTPUT DATA STREAMS FDP - SYSTEMS GUIDE - PROGRAM NUMBER 5798-AKL
**GB21-0686	DOS 2311/14/19 - 3330 DASD DEVICE INDEPENDENCE ROUTINES AVAILABILITY NOTICE - FDP NUMBER 5798-ALK
**SB21-0687	DOS 2311/14/19-3330 DASD DEVICE INDEPENDENCE ROUTINES PROGRAM DESCRIPTION/OPERATIONS MANUAL - FDP NUMBER 5798-ALK
**LB21-0688	DOS 2311/14/19-3330 DASD DEVICE INDEPENDENCE ROUTINES SYSTEMS GUIDE - FDP NUMBER 5798-ALK
**SC27-6955	VIDEO/370 USERS GUIDE - PROGRAM PRODUCTS 5734-RC5, 5736-RC3
GC27-6966	IBM OPERATING SYSTEM VIDEO/370 PROGRAM PRODUCT DESIGN OBJECTIVES PROGRAM NUMBER 5734-RC5
SC28-6689	USER'S GUIDE FOR THE IBM 2947 MODEL 4 CHECK COLLECTION CONTROLLER ASSEMBLY FACILITIES, PROGRAMMING - PRPQ P88003 PROGRAM NUMBER 5799-AAH
GH20-0723	DATA/360-DOS APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-XS2
SH20-0727	DATA/360-DOS CONSOLE OPERATOR'S GUIDE PRELIMINARY VERSION PROGRAM NUMBER 5736-XS2
SH20-0729	DATA/360-DOS TERMINAL OPERATOR'S GUIDE PRELIMINARY VERSION (PROGRAM NO. 5736-XS2)
GH20-0838	INTRODUCTION TO DATA/360 - DOS PROGRAM NUMBER 5736-XS2
SH20-0879	DATA/360 - DOS CONSOLE OPERATOR'S GUIDE PROGRAM NUMBER 5736-XS2
SH20-0885	DATA/360 - DOS TERMINAL OPERATOR'S GUIDE PROGRAM NUMBER 5736-XS2
GH20-4039	DIRECT ACCESS TERMINAL APPLICATION (DATA/360-DOS) PROGRAM NUMBER 5736-XS2
LY20-0493	DATA/360 DOS PRELIMINARY VERSION PROGRAM NUMBER 5736-XS2 FEATURE CODE 8018
LY20-0601	DATA/360 - DOS SYSTEM MANUAL PROGRAM NUMBER 5736-XS2, FEATURE CODE 8018
GH20-0853	DATA/360-OS - PROGRAM NUMBER 5734-XS3
SH20-0925	DATA/360-OS TERMINAL OPERATOR'S GUIDE, PROGRAM NUMBER 5734-XS3
SH20-0926	DATA/360-OS CONSOLE OPERATOR'S GUIDE, PROGRAM NUMBER 5734-XS3
GH20-4105	DIRECT ACCESS TERMINAL APPLICATION (DATA/360-OS) PROGRAM NUMBER 5734-XS3
LY20-0638	DATA/360-OS SYSTEM MANUAL PROGRAM NUMBER 5734-XS3, FEATURE CODE 8087
GH20-1037	DATA/360 DOS II APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER - 5736-XS5
GH20-4195	DIRECT ACCESS TERMINAL APPLICATION (DATA/360 DOS-11) DESIGN OBJECTIVES - PROGRAM NUMBER 5736-XS5
GH20-1036	DATA/360 OS II APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5734-XS8
GH20-4196	DIRECT ACCESS TERMINAL APPLICATION (DATA/360 OS-11) DESIGN OBJECTIVES - PROGRAM NUMBER 5734-XS8
GH20-0771	SYSTEM/360 DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-XX4
SH20-0829	SYSTEM/360 DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR 5736-XX4 PROGRAM DESCRIPTION MANUAL
SH20-0830	SYSTEM/360 DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR 5736-XX4 OPERATIONS MANUAL
GH20-4028	DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR PROGRAM NUMBER 5736-XX4
GH20-4217	CICS FEATURE FOR DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR FEATURES - DESIGN OBJECTIVES SHEET FEATURE NUMBERS 6024-6029
LY20-0566	IBM SYSTEM/360 DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 5736-XX4
GH20-1031	IBM OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD (OS FASTER MT) GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5734-G21
SH20-1146	IBM OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL MULTITHREAD (OS FASTER MT) OPERATIONS GUIDE - PROGRAM NUMBER 5734-G21

ORDER NUMBER	TITLE
SH20-1147	IBM OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL MULTITHREAD (OS FASTER MT) PROGRAM NUMBER 5734-G21
GH20-4149	THE OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL-MULTITHREAD (OS FASTER MT) PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-G21
LY20-0787	IBM OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL MULTITHREAD (OS FASTER MT) - LOGIC MANUAL - PROGRAM NUMBER 5734-G21 - FEATURE CODE 8059
GH20-0810	IBM SYSTEM/360 FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - LOW CORE (FASTER LC) APPLICATION DESCRIPTION - PROGRAM NUMBER 5736-G22
SH20-0863	IBM SYSTEM/360 FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL-LOW CORE (FASTER LC) 5736-G22 PROGRAM DESCRIPTION MANUAL
SH20-0864	SYSTEM/360 FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL-LOW CORE (FASTER LC) 5736-G22 OPERATIONS MANUAL
GH20-4032	FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - LOW CORE (FASTER LC) SPECIFICATIONS - PROGRAM NUMBER 5736-G22
LY20-0595	IBM SYSTEM/360 FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL-LOW CORE (FASTER LC) 5736-G22 SYSTEM MANUAL
GH20-0903	IBM DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD (DOS FASTER MT) APPLICATION DESCRIPTION, PROGRAM NUMBER 5736-G24
SH20-1051	IBM DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD (DOS FASTER MT) PROGRAM DESCRIPTION PROGRAM NUMBER 5736-G24
SH20-1052	IBM DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD (DOS FASTER MT) OPERATIONS MANUAL - PROGRAM NUMBER 5736-G24
GH20-4130	THE DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD (DOS FASTER MT) PROGRAM NUMBER 5736-G24
GH20-4203	THE DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL MULTITHREAD (DOS FASTER MT) DESIGN OBJECTIVES - PROGRAM NUMBER 5736-G24
LY20-0716	IBM DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD (DOS FASTER MT) - SYSTEM MANUAL - PROGRAM NUMBER 5736-G24
GH20-0539	GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (GATD) APPLICATION DESCRIPTION MANUAL (5734-XX2)
**GH20-0670	GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (GATD) PROGRAM DESCRIPTION MANUAL - PROGRAM NUMBER 5734-XX2
SH20-0679	GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (GATD) OPERATIONS MANUAL - PROGRAM NUMBER 5734-XX2
SH20-0680	GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (GATD) TERMINAL OPERATIONS MANUAL
GH20-4076	SYSTEM/360 GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (OS) PROGRAM PRODUCT FUNCTIONAL DESCRIPTION SHEET PROGRAM PRODUCT 5734-XX2
LY20-0455	GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (GATD) SYSTEM MANUAL - VOLUME I PROGRAM NUMBER 5734-XX2 FEATURE CODE 8101
GH20-0765	INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360 (SYSTEM DESCRIPTION) APPLICATION DESCRIPTION MANUAL (VERSION 2) PROGRAM NUMBER 5734-XX6
GH20-4067	INFORMATION MANAGEMENT SYSTEM/360 (IMS/360) VERSION 2 DESIGN OBJECTIVES - PROGRAM NUMBER 5734-XX6

### 32 Utilities

SC21-5013	IBM SYSTEM/360 DISK OPERATING SYSTEM IBM 1288 BASIC UNFORMATTED READ SYSTEM: A DATA CAPTURE UTILITY PROGRAM PROGRAM NUMBER 5736-UT1
SC21-5014	IBM SYSTEM/360 OPERATING SYSTEM IBM 1288 BASIC UNFORMATTED READ SYSTEM: A DATA CAPTURE UTILITY PROGRAM PROGRAM NUMBER 5736-UT3
GC21-5019	IBM SYSTEM/360 DOS 1288 BASIC UNFORMATTED READ SYSTEM A DATA CAPTURE UTILITY PROGRAM PROGRAM NUMBER 5736-UT1
GC21-5020	IBM SYSTEM/360 OPERATING SYSTEM IBM 1288 BASIC UNFORMATTED READ SYSTEM PROGRAM NUMBER 5734-UT3
GC28-6758	IBM SYSTEM/360 OPERATING SYSTEM DATA SET UTILITIES SUPPORT FOR ASCII - PROGRAM NUMBER 5734-UT2
GC28-6759	IBM PROGRAM PRODUCT SPECIFICATIONS, IBM SYSTEM/360 OPERATING SYSTEM: DATA SET UTILITIES SUPPORT FOR ASCII PROGRAM PRODUCT NUMBER 5734-UT2
SC28-6760	IBM SYSTEM/360 OPERATING SYSTEM: DATA SET UTILITIES SUPPORT FOR ASCII - USER'S GUIDE, PROGRAM PRODUCT 5734-UT2
GC33-5000	IBM SYSTEM/360 DISK OPERATING SYSTEM ASCII MAGNETIC TAPE UTILITIES PROGRAM NUMBER 5736-UT2
SC33-5001	IBM SYSTEM/360 DOS ASCII MAGNETIC TAPE UTILITIES PROGRAM GUIDE - PROGRAM NUMBER 5736-UT2
GC33-5002	SYSTEM/360 DOS ASCII MAGNETIC TAPE UTILITIES PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-UT2
LYC7-1700	DOS/360 ASCII MAGNETIC TAPE UTILITIES PROGRAM LISTINGS PROGRAM NUMBER 5736-UT2
LYC7-2301	SYSTEM/360 OPERATING SYSTEM ASCII UTILITIES ASSEMBLY LISTING MICROPICHE - PROGRAM PRODUCT - PROGRAM NUMBER 5734-UT2
LY21-0021	IBM SYSTEM/360 IBM 1288 BASIC UNFORMATTED READ SYSTEM PROGRAM LOGIC MANUAL PROGRAM NUMBER 5736-UT1
LY21-0022	IBM SYSTEM/360 OPERATING SYSTEM IBM 1288 BASIC UNFORMATTED READ SYSTEM PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5734-UT3
LY28-6761	IBM SYSTEM/360 OPERATING SYSTEM: DATA SET UTILITIES SUPPORT FOR ASCII - LOGIC MANUAL, PROGRAM PRODUCT 5734-UT2
LY33-8540	IBM SYSTEM/360 DISK OPERATING SYSTEM ASCII MAGNETIC TAPE UTILITIES PROGRAM LOGIC MANUAL PROGRAM NUMBER 5736-UT2

ORDER NUMBER	TITLE
<b>33 Sort/Merge</b>	
GB21-0034	DISK OPERATING SYSTEM SORT EXIT ROUTINES FOR CS/30/40 FILES
SB21-0035	FIELD DEVELOPED PROGRAM - FLYER - PROGRAM NUMBER 5798-AAM
LB21-0036	DISK OPERATING SYSTEM SORT EXIT ROUTINES FOR CONTROL SYSTEM (CS)/30/40 FILES - FIELD DEVELOPED PROGRAM DESCRIPTION OPERATIONS MANUAL - PROGRAM NUMBER 5798-AAM
LCB8-6757	DISK OPERATING SYSTEM SORT EXIT ROUTINES FOR CS/30/40 FILES SYSTEMS GUIDE - PROGRAM NUMBER 5798-AAM
SC28-6695	SYSTEM/360 DISK OPERATING SYSTEM SORT/MERGE PROGRAM NUMBER 5736-SM1
GC28-6753	IBM SYSTEM/360 DISK OPERATING SYSTEM: TAPE AND DISK SORT/MERGE PROGRAM, SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBER 5736-SM1
SC28-6755	IBM SYSTEM/360 DISK OPERATING SYSTEM: TAPE AND DISK SORT/MERGE PROGRAM, PROGRAM NUMBER 5736-SM1
SC33-4004	IBM SYSTEM/360 DISK OPERATING SYSTEM: TAPE AND DISK SORT/MERGE PROGRAM, PROGRAM NUMBER 5736-SM1
GC33-4006	IBM SYSTEM/360 DISK OPERATING SYSTEM: TAPE AND DISK SORT/MERGE PROGRAM, PROGRAM NUMBER 5736-SM1
SC33-4007	IBM SYSTEM/360 DISK OPERATING SYSTEM: TAPE AND DISK SORT/MERGE PROGRAM, PROGRAM NUMBER 5736-SM1
GC33-4008	IBM SYSTEM/360 DISK OPERATING SYSTEM: TAPE AND DISK SORT/MERGE PROGRAM, SYSTEM INFORMATION - PROGRAM NUMBER 5736-SM1
GC33-4017	IBM SYSTEM/360 OPERATING SYSTEM - SORT/MERGE SYSTEM INFORMATION - PROGRAM NUMBER 5734-SM1
**SC33-4018	SYSTEM GENERATION/INSTALLATION STORAGE REQUIREMENTS MESSAGES
GC33-4020	IBM SYSTEM/360 OPERATING SYSTEM, SORT/MERGE PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-SM1
GC33-4022	IBM SYSTEM/360 OPERATING SYSTEM, SORT/MERGE PROGRAMMER'S GUIDE - PROGRAM NUMBER 5734-SM1
**SC33-4023	IBM SYSTEM/360 OPERATING SYSTEM SORT/MERGE TIMING ESTIMATES, PROGRAM NUMBER 5734-SM1
LY28-6696	IBM SYSTEM/360 DOS SORT MERGE DESIGN OBJECTIVES PROGRAM NUMBER 5734-SM1
LY33-0027	DOS SORT/MERGE PROGRAMMER'S GUIDE - PROGRAM NUMBER 5743-SM1
**LY33-0039	IBM SYSTEM/360 DISK OPERATING SYSTEM SORT/MERGE GENERAL INFORMATION, PROGRAM NUMBER 5743-SM1
	SYSTEM/360 OPERATING SYSTEM SORT/MERGE GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5734-SM1
	DOS SORT/MERGE INSTALLATION REFERENCE MANUAL PROGRAM NUMBER 5743-SM1
	PROGRAM LISTINGS DOS SORT/MERGE PROGRAM PRODUCT - 5743-SM1
	IBM SYSTEM/360 DISK OPERATING SYSTEM: TAPE AND DISK SORT/MERGE PROGRAM - PROGRAM NUMBER 5736-SM1 (PROGRAM NUMBER 5736-SM1)
	IBM SYSTEM/360 OPERATING SYSTEM, SORT/MERGE, PROGRAM LOGIC MANUAL - PROGRAM NO. 5734-SM1
	DOS SORT/MERGE PROGRAM LOGIC MANUAL PROGRAM NUMBER 5743-SM1
<b>34 System Planning, Generation, Installation, SMF</b>	
GB21-0046	SYSTEM MANAGEMENT FACILITY SELECTABLE ANALYZER AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AAR
SB21-0047	OPERATING SYSTEM/360 SYSTEM MANAGEMENT FACILITY SELECTABLE ANALYZER - PROGRAM DESCRIPTION/OPERATION MANUAL PROGRAM NUMBER 5798-AAR
LB21-0048	SYSTEM MANAGEMENT FACILITY ELECTABLE ANALYZER SYSTEMS GUIDE PROGRAM NUMBER 5798-AAR
**GB21-9986	SMF SELECTABLE ANALYZER AND ACCOUNTING FOR DP OPERATIONS
<b>35 Simulation or Emulation</b>	
**GA24-3594	RCA 301 EMULATOR ON SYSTEM/370 USING DOS -- PLANNING GUIDE
**GA24-3595	HONEYWELL SERIES 200 EMULATOR ON SYSTEM/370 USING DOS (PRPQ) - PLANNING GUIDE, PROGRAM NUMBER 5799-ADT
GH20-1152	RCA 301 EMULATOR ON SYSTEM/370 USING DOS (PRPQ) - TRANSITION GUIDE - PROG. NO. 5799-ADR
GH20-1153	HONEYWELL SERIES 200 EMULATOR ON SYSTEM/370 USING DOS (PRPQ) - TRANSITION GUIDE - PROG. NO. 5799-ADT
<b>36 Control Program</b>	
GB21-0067	USER ROLLIN/ROLLOUT AVAILABILITY NOTICE PROGRAM NUMBER 5798-ABA
SB21-0068	DISK OPERATING SYSTEM DYNAMIC ROLLOUT/ROLLIN FIELD DEVELOPED PROGRAM DESCRIPTION OPERATIONS MANUAL PROGRAM NUMBER 5798-ABA
LB21-0069	DISK OPERATING SYSTEM DYNAMIC ROLLOUT/ROLLIN PROGRAM NUMBER 5798-ABA - FIELD DEVELOPED PROGRAM SYSTEMS GUIDE
**GB21-0574	OS/360/370 JOB CONTROL LANGUAGE DEVICE DEPENDENT PARAMETER CONVERSION AND REPLACEMENT (DDPREP) AVAILABILITY NOTICE FDP NUMBER 5798-AJU
**SB21-0575	OS/360/370 JOB CONTROL LANGUAGE DEVICE DEPENDENT PARAMETER CONVERSION AND REPLACEMENT (DDPREP) PROGRAM DESCRIPTION/OPERATIONS MANUAL - FDP NUMBER 5798-AJU
**LB21-0576	OS/360/370 JOB CONTROL LANGUAGE DEVICE DEPENDENT PARAMETER CONVERSION AND REPLACEMENT (DDPREP) - SYSTEMS GUIDE - FDP NUMBER 5798-AJU
<b>38 Remote Job Entry</b>	
GH20-0832	SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM WITH DISK OPERATING SYSTEM (RAX-DOS) PROGRAM NUMBER 5799-AAA
SH20-0837	SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM WITH DISK OPERATING SYSTEM (RAX-DOS) PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5799-AAA
SH20-0843	SYSTEM/360 REMOTE ACCESS COMPUTING WITH DISK OPERATING SYSTEM (RAX-DOS) OPERATIONS MANUAL PROGRAM NUMBER 5799-AAA
GH20-4026	SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM WITH DISK OS (RAX-DOS) PROGRAM NUMBER 5799-AAA SPECIFICATION SHEET

ORDER NUMBER	TITLE
<b>39 Time Sharing</b>	
**SC33-0029	SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION PL/I OPTIMIZING COMPILER - SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBERS 5734-PL1, 5734-LM4, 5734-LM5
GH20-4305	CPS UNDER TSO - V DESIGN OBJECTIVES SHEET PROGRAM NUMBER 5799-ADY
**G320-1408	S/360 - S/370 MCGILL UNIVERSITY SYSTEM FOR INTERACTIVE COMPUTING - PROGRAM NUMBER 5796-IUP

**40 System Operation**

GB21-0553	OPERATOR TRAINING - DOS CONSOLE SIMULATION DRILLS: BASIC TRAINING COURSE A3609 (PROG. NO. 5798-AJN), CUSTOMER PROBLEM DETERMINATION COURSE A3611 (PROG. NO. 5798-AJN), AND MULTIPROGRAMMING COURSE A3612 (PROG. NO. 5798-AJP) FIELD DEVELOPED PROGRAMS-AVAILABILITY NOTICE
SB21-0554	DOS BASIC OPERATOR TRAINING - PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AJM
LB21-0555	DOS BASIC OPERATOR TRAINING - SYSTEMS GUIDE FIELD DEVELOPED PROGRAM - PROGRAM NUMBER 5798-AJM
GB21-0553	OPERATOR TRAINING - DOS CONSOLE SIMULATION DRILLS: BASIC TRAINING COURSE A3609 (PROG. NO. 5798-AJN), CUSTOMER PROBLEM DETERMINATION COURSE A3611 (PROG. NO. 5798-AJN), AND MULTIPROGRAMMING COURSE A3612 (PROG. NO. 5798-AJP) FIELD DEVELOPED PROGRAMS-AVAILABILITY NOTICE
SB21-0557	DOS CUSTOMER PROBLEM DETERMINATION OPERATOR TRAINING PROGRAM DESCRIPTION/OPERATIONS MANUAL - FIELD DEVELOPED PROGRAM - PROGRAM NUMBER 5798-AJM
LB21-0558	DOS CUSTOMER PROBLEM DETERMINATION OPERATOR TRAINING FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER 5798-AJM
GB21-0553	OPERATOR TRAINING - DOS CONSOLE SIMULATION DRILLS: BASIC TRAINING COURSE A3609 (PROG. NO. 5798-AJN), CUSTOMER PROBLEM DETERMINATION COURSE A3611 (PROG. NO. 5798-AJN), AND MULTIPROGRAMMING COURSE A3612 (PROG. NO. 5798-AJP) FIELD DEVELOPED PROGRAMS-AVAILABILITY NOTICE
SB21-0560	DOS MULTIPROGRAMMING OPERATOR TRAINING - FIELD DEVELOPED PROGRAM - PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-AJP
LB21-0561	DOS MULTIPROGRAMMING OPERATOR TRAINING - SYSTEMS GUIDE FIELD DEVELOPED PROGRAM - PROGRAM NUMBER 5798-AJP

**ITF (INTERACTIVE TERMINAL FACILITY) PROGRAM PRODUCT(20-83)**

**20 General Information**

LY20-6040	INTERACTIVE TERMINAL FACILITY PROGRAM LOGIC - PROGRAM NUMBERS 5734-RC1, RC3; 5736-RC1, RC2
**LT60-6040	IBM SYSTEM/360 OS/DOS ITF PROGRAM LOGIC MANUAL PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2

**23 BASIC (see also 29 for PL/I and BASIC or 39 for TSO-ITF-PL/I and BASIC)**

SC28-6035	IBM SYSTEM/360 OS/DOS ITF: BASIC TERMINAL USER'S GUIDE PROGRAM NUMBERS 5736-RC2, 5734-RC3
SC28-6040	IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) INTERACTIVE TERMINAL FACILITY: BASIC TERMINAL USER'S GUIDE PROGRAM NUMBER 5734-RC4
SX28-6014	IBM SYSTEM/360 OPERATING SYSTEM IBM SYSTEM/360 DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY: BASIC REFERENCE CARD PROGRAM NUMBERS 5734-RC3, 5736-RC2
ST00-6014	IBM SYSTEM/360 OPERATING SYSTEM IBM SYSTEM/360 DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY BASIC REFERENCE CARD, PROGRAM NUMBERS 5736-RC2, 5734-RC3
LYC7-5015	DOS ITF RELEASE II - BASIC ASSEMBLY LISTINGS - MICROFICHE
LYC7-5018	SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - BASIC MODULES - MICROFICHE LISTINGS - PROGRAM NUMBER 5734-RC3
LYC7-5034	SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION INTERACTIVE TERMINAL FACILITY (BASIC ONLY) PROGRAM PRODUCT LISTING MICROFICHE - PROGRAM NUMBER 5734-RC4
LY20-6036	IBM SYSTEM/360 OS/DOS ITF PROGRAM LOGIC LANGUAGE COMPONENT: BASIC ROUTINES PROGRAM NUMBERS 5736-RC2, 5734-RC3

**29 PL/I**

GC28-6020	IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - PL/I AND BASIC PROGRAM NUMBERS 5734-RC1, 5734-RC3 - DESIGN OBJECTIVES
GC28-6021	IBM SYSTEM/360 DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY PL/I AND BASIC (PROGRAM PRODUCT DESIGN OBJECTIVES) PROGRAM NUMBERS 5736-RC1, 5736-RC2
GC28-6025	IBM SYSTEM/360 OPERATING SYSTEM IBM SYSTEM/360 DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY: PL/I GENERAL INFORMATION PROGRAM NUMBERS 5736-RC1, 5734-RC1
GT28-6025	IBM SYSTEM/360 OPERATING SYSTEM, DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY: PLI AND BASIC GENERAL INFORMATION - PROGRAM NUMBERS 5736-RC1, 5736-RC2 5736-RC1, 2
GC28-6029	IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY: PL/I (5734-RC1) AND BASIC (5734-RC3) SPECIFICATION SHEET
GC28-6030	IBM SYSTEM/360 DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY: PL/I AND BASIC PROGRAM NUMBERS: 5736-RC1 5736-RC2
GT28-6030	IBM SYSTEM/360 DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY: PL/I AND BASIC - PROGRAM NUMBERS 5736-RC1 5736-RC2
SC28-6033	IBM SYSTEM/360 OS/DOS ITF: PL/I INTRODUCTION PROGRAM NUMBERS 5734-RC1, 5736-RC1

ORDER NUMBER	TITLE
ST28-6833	IBM SYSTEM/360 OS/DOS ITP: PL/I INTRODUCTION PROGRAM NUMBERS 5734-RC1, 5736-RC1
SC28-6834	IBM SYSTEM/360 OS/DOS ITP: PL/I TERMINAL USER'S GUIDE PROGRAM NUMBERS 5734-RC1, 5736-RC1
SC28-6838	IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) INTERACTIVE TERMINAL FACILITY: PL/I INTRODUCTION PROGRAM NUMBER 5734-RC2
SC28-6839	IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) INTERACTIVE TERMINAL FACILITY: PL/I TERMINAL USER'S GUIDE PROGRAM NUMBER 5734-RC2
SX28-6813	IBM SYSTEM/360 OS/DOS ITP: PLI REFERENCE CARD PROGRAM NUMBERS 5734-RC1, 5736-RC1
ST88-6813	IBM SYSTEM/360 OS/DOS ITP: PL/I REFERENCE CARD PROGRAM NUMBERS 5734-RC1, 5736-RC1
LYC7-5013	DOS ITP RELEASE II - PL/I ASSEMBLY LISTINGS - MICROFICHE
LYC7-5016	IBM SYSTEM OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - MICROFICHE LISTINGS PROGRAM NUMBER 5734-RC1
LYC7-5033	SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION INTERACTIVE TERMINAL FACILITY (PL/I ONLY) PROGRAM PRODUCT LISTING MICROFICHE PROGRAM NUMBER 5734-RC2
LY28-6835	IBM SYSTEM/360 OS/DOS ITP PL/I PROGRAM LOGIC LANGUAGE COMPONENT: PL/I ROUTINES PROGRAM NUMBERS 5734-RC1, 5736-RC1
<u>34 System Planning, Generation, Installation, SMP</u>	
SC28-6836	IBM SYSTEM/360 OS/DOS ITP INSTALLATION REFERENCE MATERIAL PROGRAM NUMBERS 5734-RC1, 3; 5736-RC1, 2
ST28-6836	IBM SYSTEM/360 OS/DOS ITP INSTALLATION REFERENCE MATERIAL PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2
SC28-6841	IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) INTERACTIVE TERMINAL FACILITY INSTALLATION REFERENCE MANUAL PROGRAM NUMBERS 5734-RC2, 5734-RC4
<u>35 Control Program</u>	
LYC7-5003	IBM OPERATING SYSTEM 360 DOS ITP PROGRAM NUMBERS 5736-RC1 5737-RC1
LYC7-5005	IBM OPERATING SYSTEM 360 DOS ITP PROGRAM NUMBERS 5736-RC1 5737-RC1
LYC7-5006	IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3
LYC7-5007	IBM OPERATING SYSTEM/360 ITP MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3
LYC7-5008	IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3
LYC7-5009	IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3
LYC7-5010	IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3
LYC7-5011	IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3
LYC7-5014	DOS ITP RELEASE II - SHARED ASSEMBLY LISTINGS - MICROFICHE
LYC7-5017	OPERATING SYSTEM/360 INTERACTIVE TERMINAL FACILITY RELEASE 2 SHARED MODULES, MICROFICHE LISTINGS, PROGRAMS 5734-RC1, RC3
LY28-6832	IBM SYSTEM/360 OS/DOS ITP PROGRAM LOGIC INTRODUCTION AND METHOD OF OPERATION PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2
LT68-6832	IBM SYSTEM/360 OS/DOS ITP PROGRAM LOGIC MANUAL INTRODUCTION AND METHOD OF OPERATION PROGRAM NUMBERS 5734-RC1, RC3; 5736-RC1, RC2 (PREVIOUS RELEASE)
LY28-6833	IBM SYSTEM/360 OS/DOS ITP PROGRAM LOGIC INITIALIZATION SYSTEM CONTROL, AND SYSTEM SUPPORT PROGRAM LOGIC MANUAL - PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2
**LT68-6833	IBM SYSTEM/360 OS/DOS ITP PROGRAM LOGIC MANUAL INITIALIZATION SYSTEM CONTROL AND SYSTEM SUPPORT PROGRAM LOGIC MANUAL - PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2
LY28-6834	IBM SYSTEM/360 OS/DOS ITP PROGRAM LOGIC LANGUAGE COMPONENT CONTROLLER PROGRAM LOGIC MANUAL PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2
LT68-6834	IBM SYSTEM/360 OS/DOS ITP PROGRAM LOGIC LANGUAGE COMPONENT CONTROLLER PROGRAM LOGIC MANUAL PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2
LY28-6837	IBM SYSTEM/360 OS/DOS ITP PROGRAM LOGIC LANGUAGE COMPONENT: COMMON ROUTINES AND REFERENCE DATA PROGRAM NUMBERS 5734-RC1, RC3, 5736-RC1, RC2
<u>39 Time Sharing</u>	
GC28-6831	IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) INTERACTIVE TERMINAL FACILITY: PL/I AND BASIC PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBERS 5734-RC2, 5734-RC4
LYC7-5035	SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION INTERACTIVE TERMINAL FACILITY (SHARED) PROGRAM PRODUCT LISTING MICROFICHE PROGRAM NUMBERS 5734-RC2, 5734-RC4
LY28-6842	IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) INTERACTIVE TERMINAL FACILITY PROGRAM LOGIC INITIALIZATION, SYSTEM CONTROL, AND SYSTEM SUPPORT PROGRAM NUMBERS 5734-RC2, 5734-RC4
LY28-6845	IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) INTERACTIVE TERMINAL FACILITY PROGRAM LOGIC INDEX PROGRAM NUMBERS 5734-RC2, 5734-RC4

ORDER NUMBER	TITLE
<b>82 Cross-Industry - Mathematics and Science</b>	
**GH20-1175	BUSINESS ANALYSIS/BASIC FOR SYSTEM/3 BASIC AND SYSTEM/360 AND SYSTEM/370 INTERACTIVE TERMINAL FACILITY GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5703-XM3, 5734-XMB
**GH20-4223	BUSINESS ANALYSIS/BASIC FOR SYSTEM/3 MODEL6 AND ITF (OS,DOS,TSO), DESIGN OBJECTIVES - PROGRAM PRODUCTS 5703-XM3, 5734-XMB
SH20-1157	MATH/BASIC PROGRAM PRODUCT FOR ITF - OPERATOR'S GUIDE PROGRAM NUMBER 5734-XM8
SH20-1150	MATH/BASIC FOR SYSTEM/3 MODEL 6 AND INTERACTIVE TERMINAL FACILITY (ITF) - PROGRAM PRODUCT REFERENCE MANUAL PROGRAM NUMBERS 5703-XM2 (S/3 MODEL 6) 5734-XM8 (ITF-OS, DOS AND TSO)
**LY20-0804	MATH/BASIC FOR SYSTEM 3 MODEL 6 AND ITF LOGIC MANUAL (FEATURE NO. 8017 AND 8153) - PROGRAM PRODUCTS 5703-XM2, 5734-XM3
<b>TSO (TIME SHARING OPTION)-PROGRAM PRODUCT PUBLICATIONS(20-40)</b>	
NOTE: See ITF heading, above, for TSO-ITF Non-Program product TSO publications are listed under subject code 39 in OS (OPERATING SYSTEM)-Release Dependent Publications.	
<b>21 Assembler</b>	
GC26-3734	IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION: TSO ASSEMBLER PROMPTER DESIGN OBJECTIVES, PROGRAM 5734-CP2
SC26-3740	OS TSO ASSEMBLER PROMPTER USER'S GUIDE, PROG. NO. 5734-CP2
GC26-3782	IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION ASSEMBLER PROMPTER PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-CP2
LYC7-5037	SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION ASSEMBLER PROMPTER PROGRAM PRODUCT MICROPICHE LISTING PROGRAM NUMBER 5734-CP2
LY26-3737	IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION ASSEMBLER PROMPTER PROGRAM LOGIC MANUAL PROGRAM NUMBER 5734-CP2
<b>24 COBOL</b>	
GB21-0283	TSO ON-LINE COBOL SYMBOLIC DEBUG - AVAILABILITY NOTICE PROGRAM NUMBER 5798-AEZ
SB21-0294	TSO ON-LINE COBOL SYMBOLIC DEBUG PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-AEZ
LB21-0285	TSO ON-LINE COBOL SYMBOLIC DEBUG - SYSTEMS GUIDE PROGRAM NUMBER 5798-AEZ
GB21-9985	TIME SHARING OPTION ON-LINE COBOL SYMBOLIC DEBUG REQUESTS REFERENCE CARD
SC28-6433	IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION COBOL PROMPTER TERMINAL USER'S GUIDE AND REFERENCE INFORMATION PROGRAM NUMBER 5734-CP1
SC28-6434	IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) COBOL PROMPTER INSTALLATION REFERENCE MATERIAL PROGRAM NUMBER 5734-CP1
GC28-6435	IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) COBOL PROMPTER PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-CP1
**GC28-6454	IBM OS COBOL INTERACTIVE DEBUG AND (TSO) COBOL PROMPTER GENERAL INFORMATION MANUAL - PROGRAM PRODUCTS 5734-CB4, 5734-CP1
LYC7-5039	SYSTEM/360 OPERATING SYSTEM FULL COBOL COMPILER VERSION 3/TIME SHARING OPTION COBOL PROMPTER PROGRAM NUMBER 5734-CP3
LYC7-5040	IBM SYSTEM/360 OPERATING SYSTEM - TIME SHARING OPTION COBOL PROMPTER - PROGRAM NUMBERS 5734-CP1, 5734-CB3
LY28-6406	SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION COBOL PROMPTER PROGRAM LOGIC MANUAL, PROGRAM NUMBER 5734-CP1
<b>25 FORTRAN</b>	
GC28-6824	IBM SYSTEM/360 OPERATING SYSTEM FORTRAN PROGRAM PRODUCTS FOR OS AND OS WITH TSO GENERAL INFORMATION PROGRAM NUMBERS: 5734-FO1, 5734-FO2, 5734-CP3, 5734-LM1
SC28-6842	IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) CODE AND GO FORTRAN PROCESSOR-TERMINAL USER'S GUIDE PROGRAM NUMBERS 5734-FO1, 5734-LM1
SC28-6855	IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) TERMINAL USER'S SUPPLEMENT FOR FORTRAN IV (G1) PROCESSOR AND TSO FORTRAN - PROGRAM PRODUCT MANUAL PROGRAM NUMBERS 5734-FO2, 5734-CP3, 5734-LM1
SC28-6856	IBM SYSTEM/360 OS FORTRAN IV (G1) PROCESSOR AND TSO FORTRAN PROMPTER INSTALLATION REFERENCE MATERIAL PROGRAM LOGIC MANUAL, PROGRAM NUMBER 5734-FO2
GC28-6857	IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION FORTRAN PROMPTER - PROGRAM PRODUCT SPECIFICATION
**GC28-6881	FORTRAN INTERACTIVE DEBUG FOR OS (TSO) - PROGRAM PRODUCT DESIGN OBJECTIVE - PROGRAM NUMBER 5734-FO5
LYC7-5032	SYSTEM/360 TIME SHARING OPTION FORTRAN PROMPTER VERSION 7 PROGRAM NUMBER 5734-CP3
LY28-6410	IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION FORTRAN PROMPTER - PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5734-CP3
<b>29 PL/1</b>	
SC33-0029	SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION PL/1 OPTIMIZING COMPILER - SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBERS 5734-PL/1, 5734-LM4, 5734-LM5
SC33-0033	SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION: PL/1 CHECKOUT COMPILER MANUAL PROGRAM NUMBERS 5734-PL2, 5734-LM5
<b>32 Utilities</b>	
SC28-6765	IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) DATA UTILITIES: COPY, FORMAT, LIST, MERGE USER'S GUIDE AND REFERENCE MATERIAL - PROGRAM NUMBER 5734-UT1
SC28-6767	IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) DATA UTILITIES: COPY, FORMAT, LIST, MERGE SYSTEM INFORMATION PROGRAM PRODUCT - PROGRAM NUMBER 5734-UT1
GC28-6768	IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION DATA UTILITIES: COPY, FORMAT, LIST, MERGE - PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-UT1
LYC7-2300	IBM SYSTEM 360 OPERATING SYSTEM: TSO DATA UTILITIES: COPY, FORMAT, LIST, MERGE (LISTING) PROGRAM NUMBER 5734-UT1
LY28-6766	IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION DATA UTILITIES: COPY, FORMAT, LIST, MERGE PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5734-UT1

ORDER NUMBER	TITLE
<b>APPLICATION PROGRAM PRODUCTS AND OTHER LICENSED APPLICATION PROGRAMS (60-83)</b>	
<b>60 Industries - General Information</b>	
GC20-1740	BIBLIOGRAPHY OF APPLICATION PUBLICATIONS - STATE AND LOCAL GOVERNMENT INDUSTRY
GC20-1747	BIBLIOGRAPHY OF APPLICATION PUBLICATIONS EDUCATION INDUSTRY
GH20-0507	BIBLIOGRAPHY OF APPLICATION PUBLICATION FINANCE INDUSTRIES
GH20-0522	BIBLIOGRAPHY OF APPLICATION PUBLICATIONS - DISTRIBUTION INDUSTRIES
GH20-0530	BIBLIOGRAPHY OF APPLICATION PUBLICATIONS, PUBLIC UTILITY INDUSTRIES
GH20-0531	BIBLIOGRAPHY OF APPLICATION PUBLICATIONS - MEDIA INDUSTRIES
GH20-0536	BIBLIOGRAPHY OF APPLICATION PUBLICATIONS INSURANCE INDUSTRY
GH20-0970	BIBLIOGRAPHY OF APPLICATION PUBLICATIONS MEDICAL INDUSTRIES

**63 Distribution**

GH20-0764	SYSTEM/360 AGRIBUSINESS MANAGEMENT INFORMATION SYSTEM APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-D51
SH20-0684	APL/360 OS OPERATIONS AND INSTALLATION MANUAL PROGRAM NUMBER 5734-XM1
**SH20-0846	SYSTEM/360 AGRIBUSINESS MANAGEMENT INFORMATION SYSTEM PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-D51
**SH20-0847	SYSTEM/360 AGRIBUSINESS MANAGEMENT INFORMATION SYSTEM OPERATIONS MANUAL PROGRAM NUMBER 5736-D51
GH20-4027	AGRIBUSINESS MANAGEMENT INFORMATION SYSTEM (AMIS) SPECIFICATIONS SHEET PROGRAM NUMBER: 5736-D51
LYB0-0470	APL/360-OS ASSEMBLER LISTINGS PROGRAM NUMBER 5734-XM1, FEATURE CODE 8301
LY20-0579	SYSTEM/360 AGRIBUSINESS MANAGEMENT INFORMATION SYSTEM SYSTEM MANUAL FEATURE CODE 8812 PROGRAM NUMBER 5736-D51
GH20-0721	SYSTEM/360 CONSUMER GOODS SYSTEM (COGS) ALLOCATION (DOS) (OS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS (DOS) 5736-D31, (OS) 5734-D32
SH20-0820	CONSUMER GOODS SYSTEM (COGS) ALLOCATION (DOS) (OS) OPERATIONS MANUAL, PROGRAM NUMBERS DOS-5736-D31, OS-5734-D32
SH20-0821	CONSUMER GOODS SYSTEM (COGS) ALLOCATION (DOS) (OS) PROGRAM DESCRIPTION, PROGRAM NUMBERS DOS 5736-D31, OS 5734-D32
GH20-4022	CONSUMER GOODS SYSTEMS (COGS) - ALLOCATION PROGRAM NUMBER 5736-D31
GH20-4049	SYSTEM/360 CONSUMER GOODS SYSTEM (COGS) ALLOCATION (OS) PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-D32
LY20-0622	CONSUMER GOODS SYSTEM (COGS) ALLOCATION (OS) SYSTEM MANUAL PROGRAM NUMBER 5734-D32
GH20-0722	SYSTEM/360 CONSUMER GOODS SYSTEM (COGS) FORECASTING (DOS) (OS) - APPLICATION DESCRIPTION MANUAL - PROGRAM NUMBER DOS 5736-D32, OS 5734-D33
SH20-0803	CONSUMER GOODS SYSTEM (COGS) FORECASTING (DOS) (OS) OPERATIONS MANUAL, PROGRAM NUMBERS DOS 5736-D32, OS 5734-D33
SH20-0804	SYSTEM/360 CONSUMER GOODS SYSTEM (COGS) FORECASTING PROGRAM DESCRIPTION MANUAL (PROGRAM NUMBER 5736-D32)
GH20-4023	THE CONSUMER GOODS SYSTEMS (COGS) - FORECASTING PROGRAM NUMBER 5736-D32
GH20-4048	SYSTEM/360 CONSUMER GOODS SYSTEM (COGS) FORECASTING (OS) PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-D33
LY20-0621	CONSUMER GOODS SYSTEM (COGS), FORECASTING (OS), SYSTEM MANUAL, PROGRAM NUMBER 5734-D33
GH20-0935	IBM FASHION REPORTER, APPLICATION DESCRIPTION MANUAL, PROGRAM PRODUCT - PROGRAM NUMBER 5736-D11 DISTRIBUTION RETAIL 5736-D11
SH20-1053	IBM FASHION REPORTER, PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 5736-D11
SH20-1054	IBM FASHION REPORTER, OPERATIONS MANUAL PROGRAM NUMBER 5736-D11
GH20-4142	FASHION REPORTER PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-D11
LY20-0717	IBM FASHION REPORTER PROGRAM PRODUCT SYSTEM MANUAL PROGRAM NUMBER 5736-D11
GH20-0604	SYSTEM/360 ORDER ALLOCATION SYSTEM APPLICATION DESCRIPTION MANUAL - 5736-D41
SH20-0726	SYSTEM/360 ORDER ALLOCATION SYSTEM PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-D41
**SH20-0728	ORDER ALLOCATION SYSTEM OPERATIONS MANUAL PROGRAM NUMBER 5736-D41
LY20-0496	SYSTEM/360 ORDER ALLOCATION SYSTEM SYSTEM MANUAL PROGRAM NUMBER 5736-D41

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GH20-0987	COURSEWRITER III, VERSION 3 APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS 5734-E13, 5736-E11
SH20-1009	COURSEWRITER III, VERSION 3 AUTHOR'S GUIDE - OPERATING SYSTEM AND DISK OPERATING SYSTEM PROGRAM NUMBERS 5734-E13, 5736-E11
SH20-1010	COURSEWRITER III, VERSION 3 STUDENT/MONITOR USER'S GUIDE OPERATING SYSTEM AND DISK OPERATING SYSTEM PROGRAM NUMBERS 5734-E13, 5736-E11
SH20-1011	COURSEWRITER III, VERSION 3 SUPERVISOR'S GUIDE OPERATING SYSTEM AND DISK OPERATING SYSTEM PROGRAM NUMBERS 5734-E13, 5736-E11
SH20-1012	COURSEWRITER III, VERSION 3 OPERATOR'S GUIDE DISK OPERATING SYSTEM - PROGRAM NUMBERS 5736-E11
GH20-4128	COURSEWRITER III/DOS VERSION 3 - SPECIFICATION SHEET PROGRAM NUMBER 5736-E11
**GX20-1832	COURSEWRITER III VERSION 3 MONITOR REFERENCE CARD PROGRAM NUMBERS 5736-E11 (DOS) 5734-E13 (OS)
GX20-1833	COURSEWRITER III VERSION 3 AUTHOR'S REFERENCE CARD PROGRAM NUMBERS 5736-E11 (DOS) 5734-E13 (OS)
GX20-1834	COURSEWRITER III, VERSION 3 STUDENT REFERENCE CARD OPERATING HINTS - PROGRAM NUMBER 5736-E11 (DOS) 5734-E13 (OS)
GX20-1835	COURSEWRITER III, VER (SION) 3 SUPERVISOR'S REFERENCE CARD PROGRAM NUMBERS 5736-E11 (DOS) 5734-E13 (OS)

ORDER NUMBER	TITLE
LYB0-0720	COURSEWRITER III, DOS VERSION 3 LISTINGS - MICROFICHE PROGRAM NUMBER 5736-E11
LYB0-0721	COURSEWRITER III; DOS VERSION 3 FLOWCHARTS MICROFICHE - PROGRAM NUMBER 5736-E11
LY20-0679	COURSEWRITER III, VERSION 3 DISK OPERATING SYSTEM SYSTEM PROGRAMMER'S GUIDE - PROGRAM NUMBER 5736-E11
GH20-0735	COURSEWRITER III FOR SYSTEM/360 (OS AND DOS) VERSION 2 APPLICATION DESCRIPTION MANUAL (5734-E12)
SH20-0744	COURSEWRITER III FOR SYSTEM/360 (OS) VERSION 2 OPERATOR'S GUIDE PROGRAM NUMBER 5734-E12
GH20-4003	COURSEWRITER III (OS) VERSION 2 PROGRAM NUMBER 5734-E12
LY20-0495	COURSEWRITER III FOR SYSTEM/360 (OS) VERSION 2 PROGRAMMER'S GUIDE PROGRAM NUMBER 5734-E12 FEATURE CODE 8000
LY20-0691	COURSEWRITER III/OS VERSION 3 SYSTEM PROGRAMMERS GUIDE PROGRAM NUMBER 5734-E12
GH20-0987	COURSEWRITER III, VERSION 3 APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS 5734-E13, 5736-E11
SH20-1009	COURSEWRITER III, VERSION 3 AUTHOR'S GUIDE - OPERATING SYSTEM AND DISK OPERATING SYSTEM PROGRAM NUMBERS 5734-E13, 5736-E11
SH20-1010	COURSEWRITER III, VERSION 3 STUDENT/MONITOR USER'S GUIDE OPERATING SYSTEM AND DISK OPERATING SYSTEM PROGRAM NUMBERS 5734-E13, 5736-E11
SH20-1011	COURSEWRITER III, VERSION 3 SUPERVISOR'S GUIDE OPERATING SYSTEM AND DISK OPERATING SYSTEM PROGRAM NUMBERS 5734-E13, 5736-E11
SH20-1022	COURSEWRITER III/OS VERSION 3 - OPERATOR'S GUIDE PROGRAM NUMBER 5734-E13
GH20-4301	COURSEWRITER III/OS VERSION 3 - SPECIFICATION SHEET PROGRAM NUMBER 5734-E13
**GX20-1832	COURSEWRITER III VERSION 3 MONITOR REFERENCE CARD PROGRAM NUMBERS 5736-E11 (DOS) 5734-E13 (OS)
GX20-1833	COURSEWRITER III VERSION 3 AUTHOR'S REFERENCE CARD PROGRAM NUMBERS 5736-E11 (DOS) 5734-E13 (OS)
GX20-1834	COURSEWRITER III, VERSION 3 STUDENT REFERENCE CARD OPERATING HINTS - PROGRAM NUMBER 5736-E11 (DOS) 5734-E13 (OS)
GX20-1835	COURSEWRITER III, VERSION 3 SUPERVISOR'S REFERENCE CARD PROGRAM NUMBERS 5736-E11 (DOS) 5734-E13 (OS)
LYB0-0784	COURSEWRITER III, VERSION 3 OS FLOWCHARTS - MICROFICHE PROGRAM NUMBER 5734-E13
LYB0-0785	COURSEWRITER III, VERSION 3 OS LISTINGS - MICROFICHE PROGRAM NUMBER 5734-E13
GH20-1129	EPIC SOCRATES STUDENT SCHEDULING SYSTEM FOR EDUCATIONAL INSTITUTIONS - PROGRAM PRODUCT GENERAL INFORMATION PROGRAM NUMBER 5735-E91
GH20-4208	EPIC: SOCRATES STUDENT SCHEDULING SYSTEM DESIGN OBJECTIVES PROGRAM NUMBER 5735-E91
GH20-4207	EPIC: PAST TEST SCORING SYSTEM DESIGN OBJECTIVES PROGRAM NUMBER 5735-E92
GH20-4210	EPIC: BUDGET/FINANCE DESIGN OBJECTIVES PROGRAM NUMBER 5735-E93
GH20-4209	EPIC: STUDENT RECORDS DESIGN OBJECTIVES PROGRAM NUMBER 5735-E94
GH20-1170	INTERACTIVE TRAINING SYSTEM - GENERAL INFORMATION MANUAL PROGRAM NUMBER 5734-XXC
GH20-4222	INTERACTIVE TRAINING SYSTEM COURSE STRUCTURING FEATURE SPECIFICATION SHEET - PROGRAM NUMBER 5734-XXC
<b>65 Engineering (see also 82 and 83 Cross-Industry)</b>	
GH20-0983	ELECTRONIC CIRCUIT ANALYSIS PROGRAM II (ECAP II) FOR SYSTEM/360 AND 1130 COMPUTING SYSTEM APPLICATION DESCRIPTION MANUAL
SH20-1015	ELECTRONIC CIRCUIT ANALYSIS PROGRAM II (ECAP II) FOR THE IBM OPERATING SYSTEM AND 1130 COMPUTING SYSTEM PROGRAM DESCRIPTION MANUAL - PROGRAM NUMBERS 5734-EE1, 5711-EE1
SH20-1025	ELECTRONIC CIRCUIT ANALYSIS PROGRAM II (ECAP II) FOR THE IBM OPERATING SYSTEM - OPERATIONS MANUAL PROGRAM NUMBER 5734-EE1
GH20-4137	ELECTRONIC CIRCUIT ANALYSIS PROGRAM II (ECAP-II) FOR THE OPERATING SYSTEM AND 1130 SYSTEM - SPECIFICATIONS SHEET PROGRAM NUMBERS 5734-EE1 AND 5711-EE1
LY20-0692	ELECTRONIC CIRCUIT ANALYSIS PROGRAM II (ECAP II) FOR THE IBM OPERATING SYSTEM AND 1130 COMPUTING SYSTEM - SYSTEM MANUAL FEATURE NUMBER 8095 - PROGRAM NUMBERS 5734-EE1, 5711-EE1
SH20-0612	RIGID FRAME SELECTION PROGRAM (RFSP) OPERATIONS MANUAL PROGRAM NUMBER 1130-EC-09X 5734-EC1 5736-EC1
SH20-0613	RIGID FRAME SELECTION PROGRAM RFSP PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-EC1 5736-EC1
GH20-4082	RIGID FRAME SELECTION PROGRAM - FUNCTIONAL DESCRIPTION SHEET PROGRAM NUMBER 5734-EC1
LY20-0473	RIGID FRAME SELECTION PROGRAM (RFSP) VOLUME 3 - COMPILATION LISTINGS SYSTEM MANUAL PROGRAM NUMBER 5734-EC1 FEATURE CODE 8501
SH20-0612	RIGID FRAME SELECTION PROGRAM (RFSP) OPERATIONS MANUAL PROGRAM NUMBER 1130-EC-09X 5734-EC1 5736-EC1
SH20-0613	RIGID FRAME SELECTION PROGRAM RFSP PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-EC1 5736-EC1
GH20-4083	RIGID FRAME SELECTION PROGRAM - FUNCTIONAL DESCRIPTION SHEET (RFSP DOS) - PROGRAM NUMBER 5736-EC1
LY20-0474	RIGID FRAME SELECTION PROGRAM (RFSP) VOLUME 4 - COMPILATION LISTINGS SYSTEM MANUAL PROGRAM NUMBER 5736-EC1 FEATURE CODE 8501
<b>67 Finance</b>	
GH20-0775	SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM APPLICATION DESCRIPTION MANUAL, PROGRAM NUMBER 5736-F32
SH20-0893	SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM OPERATIONS MANUAL, PROGRAM NUMBER 5736-F32
SH20-0894	SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM TERMINAL OPERATOR'S MANUAL PROGRAM NUMBER 5736-F32

ORDER NUMBER	TITLE
SH20-0895	SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM
GH20-4044	PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 5736-F32
LY20-0628	SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM (ACIP)
GH20-0789	PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-F32
SH20-0997	SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM
SH20-0998	SYSTEM MANUAL - PROGRAM NUMBER 5736-F32 FEATURE NUMBER 8033
SH20-0999	BROKERAGE ACCOUNTING SYSTEM ELEMENTS (BASE) VERSION 2
GH20-4121	APPLICATION DESCRIPTION - PROGRAM NUMBER 5736-F31
LY20-0694	BROKERAGE ACCOUNTING SYSTEM ELEMENTS (BASE) VERSION 2
**GH20-1008	PROGRAM DESCRIPTION MANUAL VOLUME 1: NARRATIVE
GH20-4179	PROGRAM NUMBER 5736-F31
GH20-0763	BROKERAGE ACCOUNTING SYSTEM ELEMENTS (BASE) VERSION 2
SH20-0870	PROGRAM NUMBER 5736-F31, FEATURE 8005
SH20-0871	CHECK PROCESSING CONTROL SYSTEM (CPCS)
SH20-0872	GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5734-F11
GH20-4036	CHECK PROCESSING CONTROL SYSTEM (CPCS)
LY20-0606	PROGRAM PRODUCT DESIGN OBJECTIVES, PROGRAM NUMBER 5734-F11
LY20-0607	FINANCIAL TERMINAL SYSTEM APPLICATION DESCRIPTION PTS/360
SH20-1154	PROGRAM NUMBER 5736-F12
**SH20-1155	SYSTEM/360 FINANCIAL TERMINAL SYSTEM, PROGRAM NUMBER 5736-F12
GH20-4304	SYSTEM/360 FINANCIAL TERMINAL SYSTEM, OPERATIONS MANUAL,
LY20-0793	PROGRAM NUMBER 5736-F12
**SH20-1159	SYSTEM/360 FINANCIAL TERMINAL SYSTEM, PROGRAMMER'S MANUAL,
GB21-0010	PROGRAM NUMBER 5736-F12
GB21-0011	FINANCIAL TERMINAL SYSTEM (PTS)
LB21-0012	SYSTEM/360 FINANCIAL TERMINAL SYSTEM
**GH20-1039	SYSTEM MANUAL, VOLUME I: FLOWCHART NARRATIVES
GH20-4108	PROGRAM NUMBER 5736-F12, FEATURE CODE 8026
GH20-1038	SYSTEM/360 FINANCIAL TERMINAL SYSTEM
	SYSTEM MANUAL VOLUME II: FLOWCHARTS
	PROGRAM NUMBER 5736-F12 FEATURE CODE 8026
	MARKETABLE SECURITIES INVENTORY SYSTEM, PROGRAMMING RPQ
	MB4259, PROGRAM REFERENCE MANUAL - PROG. NO. 5799-ABY
	MARKETABLE SECURITIES INVENTORY SYSTEM PROGRAMMING
	RPQ MB4259 - PROGRAM NUMBER 5799-ABY
	OPERATIONS GUIDE
	OPERATIONS GUIDE
	MARKETABLE SECURITIES INVENTORY SYSTEM PROGRAMMING RPQ
	MB4259 - SPECIFICATION SHEET - PROGRAM NUMBER 5799-ABY
	MARKETABLE SECURITIES INVENTORY SYSTEM - LOGIC MANUAL
	PROGRAM NUMBER 5799-ABY
	REGISTERED REPRESENTATIVE SYSTEM PROGRAMMING OVERVIEW
	PROGRAM NUMBER 5734-F34
	2770/1255 REMOTE MICR ENTRY SYSTEM (UNDER DOS BTAM) - FDP
	AVAILABILITY NOTICE - PROG. NO. 5798-AAD
	2770/1255 REMOTE MICR ENTRY SYSTEM
	PROGRAM DESCRIPTION/OPERATION MANUAL
	PROGRAM NUMBER 5798-AAD
	2770/1255 REMOTE MICR ENTRY SYSTEM - SYSTEMS GUIDE
	PROGRAM NUMBER 5798-AAD
	SECURITIES ORDER MATCHING GENERAL INFORMATION MANUAL
	PROGRAM NUMBER 5734-F32
	IBH SECURITIES ORDER MATCHING - PROGRAM NUMBER 5734-F32
	DESIGN OBJECTIVES
	TELECOMMUNICATIONS CONTROL SYSTEM (TCS)
	GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5734-F31

70 Government, State and Local

GH20-0888	BASIC COURTS SYSTEM (BCS) APPLICATION DESCRIPTION MANUAL,
SH20-0963	PROGRAM NUMBER 5736-G26
SH20-0964	BASIC COURTS SYSTEM - PROGRAM PRODUCT DESCRIPTION MANUAL
GH20-4118	PROGRAM PRODUCT 5736-G26
LY20-0656	BASIC COURTS SYSTEM PROGRAM PRODUCT OPERATIONS MANUAL
GH20-1002	PROGRAM NUMBER 5736-G26
SH20-1150	IBM BASIC COURTS SYSTEM SPECIFICATIONS SHEETS
SH20-1151	PROGRAM NUMBER 5736-G26
GH20-4148	IBM SYSTEM/360 BASIC COURTS SYSTEM, SYSTEM MANUAL
LY20-0792	PROGRAM NUMBER 5736-G26
GH20-0629	BUDGET ACCOUNTING INFORMATION SYSTEM (BACIS) FOR PUBLIC
SH20-0695	INSTITUTIONS - GENERAL INFORMATION MANUAL
SH20-0696	PROGRAM NUMBER 5736-G25
GH20-4085	BUDGET ACCOUNTING INFORMATION SYSTEM (BACIS)
LYB0-0480	PROGRAM PRODUCT - OPERATOR'S GUIDE - PROGRAM NUMBER 5736-G25
LY20-0479	BUDGET ACCOUNTING INFORMATION SYSTEM (BACIS) FOR PUBLIC
G520-2255	INSTITUTIONS; PROGRAM PRODUCT REFERENCE MANUAL
	PROGRAM NUMBER 5736-G25
	BASIC (BUDGET ACCOUNTING INFORMATION SYSTEM) FOR PUBLIC
	INSTITUTIONS - PROGRAM PRODUCT SPECIFICATIONS
	PROGRAM NUMBER 5736-G25
	BUDGET ACCOUNTING INFORMATION SYSTEM (BACIS) FOR PUBLIC
	INSTITUTIONS - LICENSED PROGRAM PRODUCT MANUAL
	PROGRAM NUMBER 5736-G25
	LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM
	(LEMRAS): APPLICATION DESCRIPTION MANUAL
	PROGRAM NUMBER 5736-G21
	LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM (LEMRAS)
	PROGRAM DESCRIPTION MANUAL
	PROGRAM NUMBER 5736-G21
	LAW ENFORCEMENT RESOURCE ALLOCATION SYSTEM (LEMRAS)
	OPERATIONS MANUAL (5736-G21)
	LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM
	(LEMRAS) FUNCTIONAL DESCRIPTION - PROGRAM PRODUCT 5736-G21
	LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM (LEMRAS)
	VOLUME 2 LISTINGS - MICROFICHE
	SYSTEM MANUAL PROGRAM NUMBER 5736-G21, FEATURE CODE 8401
	LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM (LEMRAS)
	SYSTEM MANUAL VOLUME I
	(PROGRAM NUMBER 5736-G21 FEATURE CODE 8400)
	LEMRAS - LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM
	MORE EFFICIENT POLICING WITH THE SAME POLICE FORCE

ORDER NUMBER	TITLE
<b>71 Insurance</b>	
NOTE: The ALIS publications listed below apply to Version 2. For publications applying to both Version 1 (360-A-IL-09X) and Version 2 (5736-N11) of ALIS, see "71" Insurance in TYPE II Programs.	
LY20-0415	ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2 POLICY EXHIBIT UPDATE PROGRAM SYSTEM MANUAL PROGRAM NUMBER 5736-N11
LY20-0416	ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2 VALUATION UPDATE PROGRAM SYSTEM MANUAL PROGRAM NUMBER 5736-N11
LY20-0417	ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2 POLICY MASTER RECORD FILE INVENTORY PROGRAM SYSTEM MANUAL (PROGRAM NUMBER: 5736-N11) (FEATURE CODE: 8811)
LY20-0418	ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2 FINANCIAL VALUE PROGRAM SYSTEM MANUAL (PROGRAM NUMBER: 5736-N11) (FEATURE CODE 8812)
LY20-0419	ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2 VALUATION SUMMARY PROGRAM SYSTEM MANUAL (PROGRAM NUMBER 5736-N11) (FEATURE CODE 8813)
LY20-0420	ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2 POLICY EXHIBIT BALANCE PROGRAM SYSTEM MANUAL PROGRAM NUMBER 5736-N11
LY20-0421	ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2 POLICY EXHIBIT AND VALUATION INCLUDE (R) AND CALL (S) ROUTINES SYSTEM MANUAL PROGRAM NUMBER 5736-N11
**G320-1409	CONSOLIDATED FUNCTIONS EQUITY PRODUCTS (CFEP) VARIABLE ANNUITIES, MUTUAL FUNDS - DATAMANN INC., ANNOUNCEMENT NOTICE INSTALLED USER - PROGRAM NUMBER 5796-AAP
GH20-0883	CONSOLIDATED FUNCTIONS ORDINARY II (CFO II) SYSTEM, APPLICATION DESCRIPTION, PROGRAM NUMBER 5736-N13
SH20-0936	CONSOLIDATED FUNCTIONS ORDINARY II (CFO II) SYSTEM PROGRAM DESCRIPTION MANUAL - VOLUME III - MISCELLANEOUS PROGRAM DATA - PROGRAM NUMBER 5736-N13
SH20-0937	CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII) MISCELLANEOUS PROGRAM DATA, PROGRAM DESCRIPTION MANUAL VOLUME III - PROGRAM NUMBER 5736-N13
SH20-1016	CONSOLIDATED FUNCTIONS ORDINARY II SYSTEM (CFOII) OPERATIONS MANUAL - PROGRAM NUMBER 5736-N13
SH20-1017	CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII) UTILITY PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-N13
SH20-1024	CONSOLIDATED FUNCTIONS ORDINARY II (CFO II) PROGRAM DESCRIPTION MANUAL - VOLUME I PROCESSING DESCRIPTION - PROGRAM NUMBER 5736-N13
GH20-4127	CONSOLIDATED FUNCTIONS ORDINARY II - CFO-II SPECIFICATIONS SHEETS - PROGRAM NUMBER 5736-N13
LY20-0681	CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII) SYSTEM MANUAL - VOLUME I - PROGRAM NUMBER 5736-N13
LY20-0682	CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII), SYSTEM MANUAL - VOLUME II - PROGRAM NUMBER 5736-N13
LY20-0683	CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII), SYSTEM MANUAL - VOLUME III - PROGRAM NUMBER 5736-N13
LY20-0684	CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII), SYSTEM MANUAL - VOLUME IV - PROGRAM NUMBER 5736-N13
LY20-0685	CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII), SYSTEM MANUAL - VOLUME V - PROGRAM NUMBER 5736-N13
LY20-0686	CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII), SYSTEM MANUAL - VOLUME VI - PROGRAM NUMBER 5736-N13
LY20-0687	CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII), SYSTEM MANUAL - VOLUME VII - PROGRAM NUMBER 5736-N13
**GH20-0813	CFO AUTOCODER TO ASSEMBLER LANGUAGE INSTRUCTION SET TRANSLATOR (CATALIST) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-XX2
SH20-0814	CFO AUTOCODER TO ASSEMBLER LANGUAGE INSTRUCTION SET TRANSLATOR (CATALIST) PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER 5736-XX2
GH20-4015	CFO AUTOCODER TO ASSEMBLER LANGUAGE INSTRUCTION SET TRANSLATOR (CATALIST) PROGRAM NUMBER 5736-XX2
GH20-0499	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) AUTOMOBILE PREMIUM PROCESSING PROGRAM DESCRIPTION AND SYSTEM MANUAL PROGRAM NUMBERS: 360A-IP-11X, 5736-N21
GH20-0283	PROPERTY AND LIABILITY INFORMATION SYSTEMS (PALIS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS 360A-IP-10X, -11X, -13X, AND 5736-N21, -22
GH20-0501	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) PROGRAM DESCRIPTION MANUAL PROGRAM NUMBERS 360A-IP-10X, 360A-IP-11X, 360A-IP-13X, 5736-N21
LY20-0461	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) HOMEOWNERS PREMIUM PROCESSING PROGRAM DESCRIPTION AND SYSTEM MANUAL
LY20-0462	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) HOMEOWNERS CLAIMS PROCESSING PROGRAM DESCRIPTION AND SYSTEM MANUAL PROGRAM NUMBER 5736-N21 FEATURE CODE 8002
LY20-0609	PROJECT MANAGEMENT SYSTEM IV (PMS IV) PROGRAM NUMBER 5734-XP4, FEATURE NUMBER 8074
LY20-0610	COST PROCESSOR SYSTEM MANUAL PROJECT MANAGEMENT SYSTEM IV (PMS IV) PROGRAM NUMBER 5734-XP4 - FEATURE NUMBER 8071
LY20-0611	NETWORK PROCESSOR SYSTEM MANUAL PROJECT MANAGEMENT SYSTEM IV (PMSIV) RESOURCE ALLOCATION PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 5734-XP4, FEATURE CODE 8077
LY20-0612	PROJECT MANAGEMENT SYSTEM IV (PMS IV) PROGRAM NUMBER 5734-XP4 - FEATURE NUMBER 8068
LY20-0613	REPORT PROCESSOR SYSTEM MANUAL PROJECT MANAGEMENT SYSTEM IV (PMSIV) COST PROCESSOR FLOWCHART MANUAL PROGRAM NUMBER 5734-XP4, FEATURE CODE 8075
LY20-0614	PROJECT MANAGEMENT SYSTEM IV (PMSIV) NETWORK PROCESSOR FLOWCHART MANUAL PROGRAM NUMBER 5734-XP4, FEATURE CODE 8072
LY20-0615	PROJECT MANAGEMENT SYSTEM IV (PMSIV) RESOURCE ALLOCATION PROCESSOR FLOWCHART MANUAL PROGRAM NUMBER 5734-XP4, FEATURE CODE 8078

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LY20-0616	PROJECT MANAGEMENT SYSTEM IV (PMSIV) REPORT PROCESSOR FLOWCHART MANUAL PROGRAM NUMBER 5734-XP4, FEATURE CODE 8069
LYB0-0617	PROJECT MANAGEMENT SYSTEM IV (PMS IV) COST PROCESSOR ASSEMBLY LISTINGS PROGRAM NUMBER 5734-XP4, FEATURE CODE 8076
LYB0-0618	PROJECT MANAGEMENT SYSTEM IV (PMS IV) NETWORK PROCESSOR ASSEMBLY LISTINGS PROGRAM NUMBER 5734-XP4, FEATURE CODE 7406
LYB0-0619	PROJECT MANAGEMENT SYSTEM IV (PMS IV) RESOURCE ALLOCATION PROCESSOR ASSEMBLY LISTINGS PROGRAM NUMBER 5734-XP4, FEATURE CODE 8079
LYB0-0620	PROJECT MANAGEMENT SYSTEM IV (PMS IV) REPORT PROCESSOR ASSEMBLY LISTINGS PROGRAM NUMBER 5734-XP4, FEATURE CODE 8070
GH20-0283	PROPERTY AND LIABILITY INFORMATION SYSTEMS (PALIS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS 360A-IP-10X, -11X, -13X, AND 5736-N21, -22
GH20-4031	PALIS ADDITIONAL FILE FACILITY (2314) PROGRAM NUMBER 5736-N22
GH20-4199	PALIS ADDITIONAL FILE FACILITY - PROGRAM NUMBER 5736-N22
LY20-0587	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) ADDITIONAL FILE FACILITY (2314) SYSTEMS REFERENCE MANUAL PROGRAM NUMBER 5736-N22, FEATURE CODE 8007
GH20-1148	PROPERTY AND LIABILITY INFORMATION SYSTEM ENHANCEMENTS PLANNING MANUAL - PROGRAM NUMBERS 5736-N24 AND 5736-N25
GH20-4197	PALIS AUTOMOBILE ENHANCEMENTS - DESIGN OBJECTIVES SHEET PROGRAM NUMBER 5736-N24
GH20-4302	PALIS AUTOMOBILE ENHANCEMENT - SPECIFICATION SHEET PROGRAM NUMBER 5736-N24
LY20-0788	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) AUTOMOBILE ENHANCEMENTS - PROGRAM NUMBER 5736-N24 SYSTEM REFERENCE MANUAL
GH20-4307	PALIS HOMEOWNERS ENHANCEMENTS - PROGRAM NUMBER 5736-N25
LY20-0800	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) HOME OWNERS ENHANCEMENTS - SYSTEM REFERENCE MANUAL FEATURE NUMBER 8105 - PROGRAM NUMBER 5736-N25

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GB21-0432	ANALYTICAL PROCESSING TECHNIQUE (APT) UNDER CP-67/CMS FIELD DEVELOPED PROGRAM - AVAILABILITY NOTICE PROGRAM NUMBER 5798-AGD
SB21-0433	APT UNDER CP/CMS - PROGRAM NUMBER 5798-AGD
LB21-0434	APT UNDER CP/CMS - PROGRAM NUMBER 5798-AGD
GH20-4135	FIELD DEVELOPED PROGRAM-SYSTEMS GUIDE 3330/2305 APT SUPPORT PROGRAMMING RPO #B5773 PROGRAM NUMBER 5799-ACZ (PRPO SPECIFICATIONS)
GH20-0627	SYSTEM/360 CAPACITY PLANNING - INFINITE LOADING SYSTEM/360 CAPACITY PLANNING - FINITE LOADING APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS: 5736-M11 5736-M12
SH20-0795	SYSTEM/360 CAPACITY PLANNING OPERATIONS MANUAL PROGRAM PRODUCT 5736-M11, PROGRAM PRODUCT 5736-M12
SH20-0796	SYSTEM/360 CAPACITY PLANNING - INFINITE LOADING SYSTEM/360 CAPACITY PLANNING - FINITE LOADING PROGRAM DESCRIPTION MANUAL PROGRAM NUMBERS 5736-M11, 5736-M12
**SH20-0978	OS CAPACITY PLANNING - INFINITE LOADING, OS CAPACITY PLANNING - FINITE LOADING, OPERATIONS MANUAL PROGRAM NUMBERS 5734-M53 AND 5734-M54
GH20-4014	SYSTEM/360 CAPACITY PLANNING - INFINITE LOADING PROGRAM NUMBER 5736-M11
GH20-4111	OS CAPACITY PLANNING - INFINITE LOADING PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-M53
GH20-4112	OS CAPACITY PLANNING - FINITE LOADING PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-M54
LY20-0535	SYSTEM/360 CAPACITY PLANNING - INFINITE LOADING SYSTEM MANUAL PROGRAM NUMBER 5736-M11 FEATURE CODE 8021
LY20-0536	SYSTEM/360 CAPACITY PLANNING-FINITE LOADING SYSTEM MANUAL PROGRAM NUMBER 5736-M12 FEATURE CODE 8022
GH20-0752	OS/360 INVENTORY CONTROL APPLICATION DESCRIPTION MANUAL (5734-M52)
SH20-0778	OS/360 INVENTORY CONTROL OPERATIONS MANUAL PROGRAM NUMBER 5734-M52
SH20-0776	OS/360 INVENTORY CONTROL PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-M52
GH20-4008	OS/360 INVENTORY CONTROL PROGRAM NUMBER 5734-M52 SPECIFICATION SHEETS
LY20-0528	OS/360 INVENTORY CONTROL SYSTEM MANUAL PROGRAM NUMBER 5736-M52 FEATURE CODE 8011
GB21-0157	PRODUCT AND INVENTORY COSTING WITH TRENDS FOR USER REPORTING AND EVALUATION (PICTURE) - DOS - FDP AVAILABILITY NOTICE, PROG. NO. 5798-ACL
SB21-0158	PRODUCT AND INVENTORY COSTING WITH TRENDS FOR USER REPORTING AND EVALUATION - PROGRAM NUMBER 5798-ACL PROGRAM DESCRIPTION/OPERATIONS MANUAL
LB21-0159	PRODUCT AND INVENTORY COSTING WITH TRENDS FOR USER REPORTING AND EVALUATION - SYSTEMS GUIDE - PROGRAM NUMBER 5798-ACL
SH20-1067	SYSTEM/360 OPERATING SYSTEM REQUIREMENTS PLANNING EXTENSIONS (PROGRAMMING RPO EA6264) - PROGRAM DESCRIPTION AND OPERATIONS MANUAL - PROGRAM NUMBER 5799-AAV
GH20-4133	OS REQUIREMENTS PLANNING EXTENSIONS - SPECIFICATIONS PROGRAMMING RPO EA6264 - PROGRAM NUMBER 5799-AAV
GH20-0751	OS/360 REQUIREMENTS PLANNING - APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5734-M51
**SH20-0777	OS/360 REQUIREMENTS PLANNING PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-M51
SH20-0782	OS/360 REQUIREMENTS PLANNING PROGRAM PRODUCT 5734-M51 OPERATING MANUAL
GH20-4005	OS/360 REQUIREMENTS PLANNING PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-M51
GH20-4110	OS/360 REQUIREMENTS PLANNING SPECIAL FEATURE #6015 PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-M51
LY20-0543	OS/360 REQUIREMENTS PLANNING SYSTEM MANUAL PROGRAM NUMBER 5734-M51
SH20-0790	SYSTEM/360 REQUIREMENTS PLANNING INTERFACE 5736-M13 PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-M13

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SH20-0791	SYSTEM/360 REQUIREMENTS PLANNING INTERFACE (5736-M13) OPERATIONS MANUAL
GH20-4012	SYSTEM/360 REQUIREMENTS PLANNING INTERFACE PROGRAM NUMBER 5736-M13
LY20-0537	SYSTEM/360 REQUIREMENTS PLANNING INTERFACE SYSTEM MANUAL PROGRAM NUMBER 5736-M13
GH20-0753	SYSTEM/360 SHOP FLOOR CONTROL APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-M31
GH20-0754	SYSTEM/360 SHOP FLOOR CONTROL DATA BASE MANUAL PROGRAM NUMBER 5736-M31
SH20-0827	SYSTEM/360 SHOP FLOOR CONTROL 5736-M31 OPERATOR'S MANUAL
SH20-0828	SHOP FLOOR CONTROL, PROGRAM NUMBERS 5736-M31 (DOS), 5734-M31 (OS) - PROGRAM DESCRIPTION MANUAL
GH20-4024	SHOP FLOOR CONTROL - PROGRAM NUMBER 5736-M31
LY20-0565	SYSTEM/360 SHOP FLOOR CONTROL 5736-M31 SYSTEM MANUAL
SH20-0828	SHOP FLOOR CONTROL, PROGRAM NUMBERS 5736-M31 (DOS), 5734-M31 (OS) - PROGRAM DESCRIPTION MANUAL
SH20-0986	OS SHOP FLOOR CONTROL OPERATIONS MANUAL PROGRAM NUMBER 5734-M31
GH20-4113	OS SHOP FLOOR CONTROL PROGRAM NUMBER 5734-M31 PROGRAM PRODUCT SPECIFICATION SHEET
LY20-0565	SYSTEM/360 SHOP FLOOR CONTROL 5736-M31 SYSTEM MANUAL
<b>73 Media</b>	
SH20-1089	AN APL TEXT EDITOR AND COMPOSER PROGRAM DESCRIPTION/ OPERATIONS MANUAL - PROGRAM NUMBER 5796-PAC
LY20-0743	AN APL (OS OR DOS) TEXT EDITOR AND COMPOSER: SYSTEM GUIDE PROG. NO. 5796-PAC, FEATURE NO. 8009
GB21-0229	SHAS PENDING INSURANCE CLAIMS ACCOUNTING PROGRAMS (DOS) FDP AVAILABILITY NOTICE, PROG. NO. 5798-ADN
SB21-0230	SHAS PENDING INSURANCE CLAIMS - PROGRAM NUMBER 5798-ADN PROGRAM DESCRIPTION/OPERATIONS MANUAL
LB21-0231	SHAS PENDING INSURANCE CLAIMS - PROGRAM NUMBERS 5798-ADN FIELD DEVELOPED PROGRAM - SYSTEMS GUIDE
SH20-0833	SYSTEM/360 TEXT PROCESSOR - PAGINATION/360 PROGRAM DESCRIPTION VOLUME 1 PROGRAM NUMBER 5736-K12
SH20-0834	SYSTEM/360 TELE PROCESSOR - PAGINATION/360 PROGRAM DESCRIPTION VOLUME 2 - PROGRAM NUMBER 5736-K12
SH20-0835	SYSTEM/360 TELEPROCESSOR - PAGINATION/360 PROCESS DESCRIPTION VOLUME 3 PROGRAM NUMBER 5736-K12
SH20-0836	SYSTEM/360 TELEPROCESSOR - PAGINATION/360 OPERATIONS MANUAL PROGRAM NUMBER 5736-K12
GH20-4037	SYSTEM/360 TEXT PROCESSOR PAGINATION/360 PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-K12
LY20-0623	SYSTEM/360 TEXT PROCESSOR PAGINATION/360, SYSTEM MANUAL, VOLUME I - FLOWCHART NARRATIVES - PROGRAM NUMBER 5736-K12, FEATURE CODE 8010
LY20-0624	SYSTEM/360 TEXT PROCESSOR PAGINATION/360, SYSTEM MANUAL, VOLUME II - FLOWCHARTS - PROGRAM NUMBER 5736-K12, FEATURE CODE 8011
SH20-0711	SYSTEM/360 TEXT PROCESSOR - EDIT/360 OPERATIONS MANUAL PROGRAM NUMBER 5736-K11
SH20-0712	SYSTEM/360 TEXT PROCESSOR - EDIT/360 PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-K11
LY20-0489	SYSTEM/360 TEXT PROCESSOR -- EDIT/360 (DOS) SYSTEM MANUAL VOLUME I - FLOWCHART NARRATIVES PROGRAM NUMBER 5736-K11
LY20-0490	SYSTEM/360 TEXT PROCESSOR -- EDIT/360 (DOS) SYSTEM MANUAL VOLUME II - FLOWCHARTS PROGRAM NUMBER 5736-K11
<b>74 Medical (see Medical Industry Bibliography, Order Number GH20-0970)</b>	
GH20-0772	CLINICAL LABORATORY MANAGEMENT SYSTEM (CLMS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5718-H12
SH20-0823	IBM CLINICAL LABORATORY MANAGEMENT SYSTEM (CLMS) 5718-H12 PROGRAM DESCRIPTION MANUAL
SH20-0831	CLINICAL LABORATORY MANAGEMENT SYSTEM (CLMS) 5718-H12 OPERATIONS MANUAL
GH20-4025	CLINICAL LABORATORY MANAGEMENT SYSTEM (CLMS) PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5718-H12
LY20-0649	IBM CLINICAL LABORATORY MANAGEMENT SYSTEM - SYSTEM MANUAL PROGRAM PRODUCT 5718-H12
LY20-0670	CLINICAL LABORATORY MANAGEMENT SYSTEM (CLMS) MPX FEATURE CONVERSION FEATURE - PROGRAM PRODUCT 5718-H12, FEATURE CODE 8007
SH20-0805	MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) PROGRAM 5736-H11 OPERATIONS MANUAL
GH20-0806	MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) VERSION 2 APPLICATION DESCRIPTION MANUAL, PROGRAM NUMBER 5736-H11
SH20-0807	MEDICAL INFORMATION SYSTEM PROGRAM (MISP) 5736-H11 SYSTEM- PROGRAM PRODUCT INSTALLATION MANUAL
**SH20-0808	MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) 5736-H11 PROGRAM DESCRIPTION MANUAL
**SH20-0809	MEDICAL INFORMATION SYSTEM PROGRAM (MISP) 5736-H11 PROGRAMMER'S MANUAL
SH20-0815	MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) VERSION TWO - APPLICATION FILE DESCRIPTION MANUAL PROGRAM NUMBER 5736-H11
GH20-4019	MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) VERSION 2 SPECIFICATIONS SHEET - PROGRAM NUMBER 5736-H11
LY20-0561	MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) VERSION 2 SYSTEM MANUAL - PROGRAM PRODUCT 5736-H11 FEATURE CODE 8500
GH20-4001	SHAS COMPATIBLE TELEPROCESSING SPECIFICATION SHEET PROGRAM NUMBER 5736-H13
LY20-0400	SHAS COMPATIBLE TELEPROCESSING SUPPORT FOR 2700, 2740, AND 1050 TERMINALS SYSTEM REFERENCE MANUAL PROGRAM PRODUCT 5736-H13, FEATURE CODE 8000
GH20-0709	SHARED LABORATORY INFORMATION SYSTEM (SLIS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-H12
SH20-0769	SHARED LABORATORY INFORMATION SYSTEM (SLIS) LABORATORY MANUAL PROGRAM NUMBER 5736-H12

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SH20-0780	SHARED LABORATORY INFORMATION SYSTEM (SLIS) 5736-H12 PROGRAM DESCRIPTION MANUAL
SH20-0781	SHARED LABORATORY INFORMATION SYSTEM (SLIS) (5736-H12) OPERATIONS MANUAL
GH20-4021	SHARED LABORATORY INFORMATION SYSTEM (SLIS) PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-H12
GX20-1807	SHARED LABORATORY INFORMATION SYSTEM CLM CODING SHEET PROGRAM NUMBER 5736-H12
GK20-1808	SHARED LABORATORY INFORMATION SYSTEM CLM CODING SHEET PROGRAM NUMBER 5736-H12
GX20-1809	SHARED LABORATORY INFORMATION SYSTEM CLM CODING SHEET PROGRAM NUMBER 5736-H12
LY20-0655	SHARED LABORATORY INFORMATION SYSTEM (SLIS) SYSTEM MANUAL PROGRAM PRODUCT 5736-H12
<u>76 Public Utilities</u>	
GH20-0532	SYSTEM/360 POWER SYSTEM PLANNING (PCP) FOR THE ELECTRIC UTILITY INDUSTRY PROGRAM NUMBER 5736-U12
SH20-0676	SYSTEM/360 POWER SYSTEM PLANNING FOR THE ELECTRIC UTILITY INDUSTRY (OS) (5736-U12), OPERATIONS MANUAL
SH20-0675	SYSTEM/360 POWER SYSTEM PLANNING FOR THE ELECTRIC UTILITY INDUSTRY (OS) (5736-U12)
GH20-4017	POWER SYSTEM PLANNING PROGRAM SPECIFICATIONS SHEETS PROGRAM NUMBER 5736-U12
GH20-4144	SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC UTILITY INDUSTRY SHORT CIRCUIT RO FEATURE SPECIFICATIONS PROGRAM NUMBER 5736-U12
LY20-0546	SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC UTILITY INDUSTRY POWER FLOW SYSTEM MANUAL - VOLUME III PROGRAM NUMBER 5736-U12 FEATURE CODE 8172
LY20-0553	SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR ELECTRIC UTILITY INDUSTRY - SHORT CIRCUIT SYSTEM MANUAL PROGRAM NUMBER 5736-U12
LY20-0554	SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC UTILITY INDUSTRY TRANSIENT STABILITY SYSTEM MANUAL - VOLUME IV PROGRAM NUMBER 5736-U12 FEATURE CODE 8173
LY20-0555	SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC UTILITY INDUSTRY ENGINEERING DATA MANAGEMENT SERVICES SYSTEM MANUAL - VOLUME I PROGRAM NUMBER 5736-U12 FEATURE CODE 8174
LY20-0693	SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC UTILITY INDUSTRY, POWER FLOW OUTPUT AND CAPACITY FEATURE SYSTEM MANUAL, VOLUME V - PROGRAM NUMBER (5736-U12)
LY20-0726	SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC UTILITY INDUSTRY SHORT CIRCUIT R0 FEATURE - SYSTEM MANUAL VOLUME VI, FEATURE 8103 - PROGRAM NUMBER 5736-U12
GB21-0043	PUBLIC UTILITY FINANCIAL PLANNING SYSTEM AVAILABILITY NOTICE PROGRAM NUMBER 5798-AAQ
SB21-0044	PUBLIC UTILITY FINANCIAL PLANNING SYSTEM - FIELD DEVELOPED PROGRAM - PROGRAM DESCRIPTION OPERATIONS MANUAL PROGRAM NUMBER 5798-AAQ
LB21-0045	PUBLIC UTILITY FINANCIAL PLANNING SYSTEM GUIDE PROGRAM NUMBER 5798-AAQ
<u>78 Transportation</u>	
GH20-0873	FARE QUOTE/TICKETING APPLICATION DESCRIPTION MANUAL
SH20-0979	FARE QUOTE/ISSUE TICKET USER'S GUIDE PROGRAM NUMBER 5736-T11
SH20-0981	FARE QUOTE/TICKETING SYSTEM IMPLEMENTATION GUIDE, PROGRAM NUMBER 5736-T11
GH20-4123	FARE QUOTE/TICKETING SPECIFICATION SHEET PROGRAM NUMBER 5736-T11
SH20-1081	FARE QUOTE/TICKETING STUDENT STUDY GUIDE PROGRAM NUMBER 5736-T11
LY20-0663	FARE QUOTE/TICKETING FUNCTIONAL SPECIFICATION PROGRAM NUMBER 5736-T11
LY20-0664	FARE QUOTE/ISSUE TICKET PROGRAM AND PACKAGE SPECIFICATIONS PROGRAM NUMBER 5736-T11
LY20-0666	FARE QUOTE/TICKETING DATA/MACRO SPECIFICATION PROGRAM NUMBER 5736-T11
GH20-1134	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) GENERAL INFORMATION MANUAL - PROGRAM NUMBERS 5795-AAA (OS MESSAGE SWITCHING) 5795-AAB (OS EQUIPMENT CONTROL) 5795-AAC (DOS MESSAGE SWITCHING) 5795-AAD (DOS EQUIPMENT CONTROL)
**GH20-1135	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) OPERATIONS MANUAL - PROGRAM NUMBER 5795-AAA (OS MESSAGE SWITCHING)
SH20-1136	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST), SYSTEM PROGRAMMER'S - REFERENCE MANUAL PROGRAM NUMBER 5795-AAA (OS MESSAGE SWITCHING)
**GH20-1137	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) - TERMINAL OPERATOR'S MANUAL - PROGRAM NUMBERS 5795-AAA (OS MESSAGE SWITCHING) 5795-AAC (DOS MESSAGE SWITCHING)
LH20-1138	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) - PROGRAM LOGIC MANUAL - PROGRAM NUMBERS 5795-AAA (OS MESSAGE SWITCHING) 5795-AAC (DOS MESSAGE SWITCHING)
GH20-1139	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) - FILE DESCRIPTION MANUAL - PROGRAM NUMBERS 5795-AAA (OS MESSAGE SWITCHING) 5795-AAC (DOS MESSAGE SWITCHING)
**SH20-1166	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) SYSTEM PROGRAMMER'S REFERENCE MANUAL - PROGRAM PRODUCT 5795-AAC (DOS MESSAGE SWITCHING)
**SH20-1167	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) OPERATIONS MANUAL - PROGRAM PRODUCT 5795-AAC (DOS MESSAGE SWITCHING)
**LH20-1168	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) PROGRAM LOGIC MANUAL - PROGRAM PRODUCT 5797-AAC (DOS MESSAGE SWITCHING)
**SH20-1169	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) FILE DESCRIPTION MANUAL - PROGRAM PRODUCT 5795-AAC (DOS MESSAGE SWITCHING)
**SH20-1094	FLIGHT DATA DISPLAY SYSTEM INSTALLATION GUIDE PROGRAM NUMBER 5796-PAE
**SH20-1095	FLIGHT DATA DISPLAY SYSTEM OPERATORS MANUAL PROGRAM NUMBER 5796-PAE

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**SH20-1096	FLIGHT DATA DISPLAY SYSTEM USERS GUIDE PROGRAM NUMBER 5796-PAE
**LY20-0749	FLIGHT DATA DISPLAY SYSTEM FUNCTION SPECIFICATIONS
**LY20-0750	FLIGHT DATA DISPLAY SYSTEM PACKAGE/PROGRAM SPECIFICATIONS IUP PROGRAM NO. 5796-PAE
**LY20-0751	FLIGHT DATA DISPLAY SYSTEM DATA/MACRO/FILE SPECIFICATIONS IUP PROGRAM NO. 5796-PAE
G320-1518	FLIGHT DATA DISPLAY SYSTEM IUP ANNOUNCEMENT NOTICE PROGRAM NUMBER 5796-PAE
G320-1519	FLIGHT DATA DISPLAY SYSTEM, GENERAL INFORMATION MANUAL PROGRAM NUMBER 5796-PAE
GB21-0313	OS ROTABLE CONTROL PROGRAM - FIELD DEVELOPED PROGRAM AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AFA
SB21-0314	OS ROTABLE CONTROL PROGRAM - FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AFA
LB21-0315	OS ROTABLE CONTROL PROGRAM - FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER 5798-AFA
GB21-0316	DOS ROTABLE CONTROL PROGRAM - FOR AVAILABILITY NOTICE - PROG. NO. 5798-AFC PROGRAM NUMBER 5798-AFC
SB21-0317	IBM DISK OPERATING SYSTEM/360 ROTABLE CONTROL PROGRAM FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-AFC
LB21-0318	IBM DISK OPERATING SYSTEM/360 ROTABLE CONTROL PROGRAM FIELD DEVELOPED PROGRAM SYSTEMS GUIDE PROGRAM NUMBER 5798-AFC
SH20-0980	TARIFF MAINTENANCE USER'S GUIDE, PROGRAM NUMBER 5736-T11
SH20-0982	TARIFF MAINTENANCE OPERATOR'S GUIDE, PROGRAM NUMBER 5736-T11
LY20-0665	TARIFF MAINTENANCE PROGRAM AND PACKAGE SPECIFICATIONS PROGRAM NUMBER 5736-T11
GH20-0730	TARIFF PUBLISHING SYSTEM (BOUND TARRIFPS) TRAFFIC PROFILE ANALYSIS SYSTEM (POINT-TO-POINT TARIFF ITEM SELECTION) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS 5736-T21, 5736-T22
SH20-0792	TARIFF PUBLISHING SYSTEM (BOUND TARIFFS) FORMAT AND STANDARD CODES MANUAL PROGRAM NUMBER 5736-T21
SH20-0798	TARIFF PUBLISHING SYSTEM (BOUND TARIFFS) DATA PREPARATION MANUAL 5736-T21
SH20-0812	TARIFF PUBLISHING SYSTEM (BOUND TARIFFS) PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER 5736-T21
GH20-4016	TARIFF PUBLISHING SYSTEM (BOUND TARIFFS) PROGRAM NUMBER 5736-T21
LY20-0559	TARIFF PUBLISHING SYSTEM (BOUND TARIFFS) SYSTEM MANUAL PROGRAM NUMBER 5736-T21, FEATURE CODE 8003
GH20-0730	TARIFF PUBLISHING SYSTEM (BOUND TARRIFPS) TRAFFIC PROFILE ANALYSIS SYSTEM (POINT-TO-POINT TARIFF ITEM SELECTION) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS 5736-T21, 5736-T22
SH20-0811	TRAFFIC PROFILE ANALYSIS SYSTEM 5736-T22, PROGRAM DESCRIPTION AND OPERATION MANUAL
GH20-4020	TRAFFIC PROFILE ANALYSIS SYSTEM (POINT-TO-POINT TARIFF ITEM SELECTION) PROGRAM NUMBER 5736-T22
LY20-0560	TRAFFIC PROFILE ANALYSIS SYSTEM SYSTEM MANUAL PROGRAM NUMBER 5736-T22
GH19-2000	IBM VEHICLE SCHEDULING PROGRAM--EXTENDED GENERAL INFORMATION MANUAL PROGRAM NUMBERS 5734-XM5 (OS), 5736-XM3 (DOS)
SH19-2608	IBM VEHICLE SCHEDULING PROGRAM - EXTENDED (DOS) OPERATIONS MANUAL, PROGRAM NUMBER 5736-XM3
SH19-2304	IBM VEHICLE SCHEDULING PROGRAM--EXTENDED (OS AND DOS) PROGRAM DESCRIPTION MANUAL PROGRAM NUMBERS 5734-XM5 (OS), 5736-XM3 (DOS)
GH19-2903	IBM VEHICLE SCHEDULING PROGRAM - EXTENDED (DOS) SPECIFICATIONS - PROGRAM NUMBER 5736-XM3
GH20-4042	IBM VEHICLE SCHEDULING PROGRAM - EXTENDED (DOS) PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-XM3
LY19-2001	IBM VEHICLE SCHEDULING PROGRAM -- EXTENDED (OS AND DOS) PROGRAM LOGIC MANUAL, VOLUME I, NARRATIVE PROGRAM NUMBERS 5734-XM5 (OS), 5736-XM3 (DOS)
LY19-2006	IBM VEHICLE SCHEDULING PROGRAM -- EXTENDED (OS AND DOS) PROGRAM LOGIC MANUAL, VOLUME II, FLOWCHARTS PROGRAM NUMBERS 5734-XM5 (OS), 5736-XM3 (DOS)
LYA9-2008	IBM VEHICLE SCHEDULING PROGRAM -- EXTENDED (DOS) PROGRAM LOGIC MANUAL, VOLUME III PROGRAM LISTINGS - MICROFICHE PROGRAM NUMBER 5734-XM5
GH19-2000	IBM VEHICLE SCHEDULING PROGRAM--EXTENDED GENERAL INFORMATION MANUAL PROGRAM NUMBERS 5734-XM5 (OS), 5736-XM3 (DOS)
**SH19-2607	IBM VEHICLE SCHEDULING PROGRAM - EXTENDED (OS) OPERATIONS MANUAL, PROGRAM NUMBER 5734-XM5
SH19-2304	IBM VEHICLE SCHEDULING PROGRAM--EXTENDED (OS AND DOS) PROGRAM DESCRIPTION MANUAL PROGRAM NUMBERS 5734-XM5 (OS), 5736-XM3 (DOS)
GH20-4041	IBM VEHICLE SCHEDULEING PROGRAM - EXTENDED (OS) PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-XM5
LY19-2001	IBM VEHICLE SCHEDULING PROGRAM -- EXTENDED (OS AND DOS) PROGRAM LOGIC MANUAL, VOLUME I, NARRATIVE PROGRAM NUMBERS 5734-XM5 (OS), 5736-XM3 (DOS)
LY19-2006	IBM VEHICLE SCHEDULING PROGRAM -- EXTENDED (OS AND DOS) PROGRAM LOGIC MANUAL, VOLUME II, FLOWCHARTS PROGRAM NUMBERS 5734-XM5 (OS), 5736-XM3 (DOS)
LYA9-2007	IBM VEHICLE SCHEDULING PROGRAM--EXTENDED (OS) PROGRAM LOGIC MANUAL, VOLUME III PROGRAM LISTINGS - MICROFICHE, PROGRAM NUMBER 5734-XM5
GB21-0019	VEHICLE MAINTENANCE AND COST ANALYSIS FIELD DEVELOPED PROGRAM AVAILABILITY NOTICE PROGRAM NUMBER 5798-AAG
SB21-0020	VEHICLE MAINTENANCE AND COST ANALYSIS FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-AAG
LB21-0021	VEHICLE MAINTENANCE AND COST ANALYSIS FIELD DEVELOPED PROGRAM SYSTEMS GUIDE, PROGRAM NUMBER 5798-AAG
GB21-9981	VEHICLE MAINTENANCE AND COST ANALYSIS SYSTEM - MARKETING GUIDE - PROGRAM NUMBER 5798-AAG
GB21-0001	GENERALIZED VEHICLE SCHEDULING PROGRAM (VSP) NETWORK FOR LOS ANGELES; FIELD DEVELOPED PROGRAM AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AAA

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SB21-0002	GENERALIZED VEHICLE SCHEDULING PROGRAM NETWORK FOR LOS ANGELES FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AAA
LB21-0003	VEHICLE SCHEDULING PROGRAM GENERALIZED VSP NETWORK FOR LOS ANGELES, CALIFORNIA: FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER 5798-AAA
<b>79 Cross-Industry (see also 80-83 for selections)</b>	
GB21-0450	DOS TIME ACCOUNTING AND BILLING - FIELD DEVELOPED PROGRAMS-AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AHB
SB21-0451	DOS TIME ACCOUNTING AND BILLING - FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AHB
LB21-0452	DOS TIME ACCOUNTING AND BILLING - FIELD DEVELOPED PROGRAM-SYSTEMS GUIDE - PROGRAM NUMBER 5798-AHB
GB21-0136	DATA CLASSIFICATION SYSTEM FOR THE SYSTEM/360 AVAILABILITY NOTICE - PROGRAM NUMBER 5798-ACC
SB21-0137	DATA CLASSIFICATION SYSTEM FOR THE SYSTEM/360 PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-ACC
LB21-0138	DATA CLASSIFICATION SYSTEM FOR THE SYSTEM/360 SYSTEMS GUIDE - PROGRAM NUMBER 5798-ACC
LY19-1004	SYSTEM/360 AND SYSTEM/370 DECISION TABLE TRANSLATOR (DECTAT) FOR COBOL AND PL/I, SYSTEM MANUAL PROGRAM NUMBER 5734-XR2
GH20-0746	SYSTEM/360 DOS LEARN ADMINISTRATIVE TERMINAL SYSTEM APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-XX3
SH20-0767	IBM SYSTEM/360 DOS LEARN ADMINISTRATIVE TERMINAL SYSTEM PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-XX3
SH20-0768	IBM SYSTEM/360 LEARN ATS WORKBOOK PROGRAM NUMBERS 5734-XX8, 5736-XX3
GH20-4006	SYSTEMS/360 LEARN DOS ADMINISTRATIVE TERMINAL SYSTEM PROGRAM NUMBER 5736-XX3
LY20-0510	IBM SYSTEM/360 DOS LEARN ADMINISTRATIVE TERMINAL SYSTEM SYSTEM MANUAL PROGRAM NUMBER 5736-XX3 FEATURE CODE 8054
GH20-0745	SYSTEM/360 OS LEARN ADMINISTRATIVE TERMINAL SYSTEM APPLICATION DESCRIPTION MANUAL (PROGRAM NO. 5734-XX8)
SH20-0766	IBM SYSTEM/360 OS LEARN ADMINISTRATIVE TERMINAL SYSTEM PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-XX8
SH20-0768	IBM SYSTEM/360 LEARN ATS WORKBOOK PROGRAM NUMBERS 5734-XX8, 5736-XX3
GH20-4007	SYSTEM/360 LEARN OS ADMINISTRATIVE TERMINAL SYSTEM PROGRAM NUMBER 5734-XX8
LY20-0509	IBM SYSTEM/360 OS LEARN ADMINISTRATIVE TERMINAL SYSTEM SYSTEM MANUAL PROGRAM NUMBER 5734-XX8 FEATURE CODE 8053
**GB21-0541	LEASE VS. PURCHASE ANALYSIS OF CAPITAL EXPENDITURES FDP AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AJK
**SB21-0542	LEASE VS. PURCHASE ANALYSIS OF CAPITAL EXPENDITURES PROGRAM DESCRIPTION/OPERATIONS MANUAL - FDP NUMBER 5798-AJK
**LB21-0543	LEASE VS. PURCHASE ANALYSIS OF CAPITAL EXPENDITURES SYSTEMS GUIDE - FDP NUMBER 5798-AJK
GH20-1027	STAT/BASIC FOR SYSTEM/3 AND ITP - GENERAL INFORMATION MANUAL PROGRAM NUMBERS 5703-XA1, 5734-XA3
SH20-1069	STAT/BASIC FOR SYSTEM/3 AND INTERACTIVE TERMINAL FACILITY PROGRAM REFERENCE - PROGRAM NUMBERS 5703-XA1, 5734-XA3
SH20-1070	STAT/BASIC FOR INTERACTIVE TERMINAL FACILITY OPERATIONS GUID PROGRAM NUMBER 5734-XA3
**GH20-4139	STAT/BASIC FOR ITP - SPECIFICATION SHEET PROGRAM 5734-XA3
LY20-0728	STAT/BASIC FOR INTERACTIVE TERMINAL FACILITY LOGIC MANUAL FEATURE NUMBER 8100 - PROGRAM NUMBER 5734-XA3
<b>80 Cross-Industry - Information Management</b>	
GB21-0322	DOS APPLICATION DOCUMENTATION PROGRAM - FIELD DEVELOPED PROGRAM AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AFF
SB21-0323	DOS APPLICATION DOCUMENTATION PROGRAM - FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS - PROGRAM NUMBER 5798-AFF
LB21-0324	DOS APPLICATION DOCUMENTATION PROGRAM - FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER 5798-AFF
GH20-0961	BILL PROCESSOR SYSTEMS - IMS/360 BRIDGE, APPLICATION DESCRIPTION MANUAL, PROGRAM NUMBER 5734-XX9
SH20-1075	BILL PROCESSOR SYSTEMS - IMS/360 BRIDGE PROGRAM DESCRIPTION MANUAL - PROGRAM NUMBER 5734-XX9
SH20-1076	BILL PROCESSOR SYSTEMS - IMS/360 BRIDGE, OPERATIONS MANUAL - PROGRAM NUMBER 5734-XX9
GH20-4141	BILL PROCESSOR SYSTEMS - IMS/360 BRIDGE PROGRAM NUMBER 5734-XX9
LY20-0733	BILL PROCESSOR SYSTEMS - IMS/360 BRIDGE, SYSTEM MANUAL PROGRAM NUMBER 5734-XX9
GH20-0521	SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-CX1
SH20-0625	SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) OPERATIONS MANUAL (5736-CX1)
SH20-0622	SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) PROGRAM DESCRIPTION MANUAL VOLUME I: SYSTEM OVERVIEW AND CONTROL (5736-CX1)
SH20-0623	SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) AND SYSTEM/360 GENERALIZED INFORMATION SYSTEM PROGRAM DESCRIPTION MANUAL VOLUME II: DATA DESCRIPTION LANGUAGE (5736-CX1)
SH20-0736	SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) SYSTEM/360 GENERALIZED INFORMATION SYSTEM PROGRAM DESCRIPTION MANUAL VOLUME III: PROCEDURAL LANGUAGE PROGRAM NUMBER 5736-CX1
**LY20-0422	SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) SYSTEM MANUAL VOLUME 1 PROGRAM NUMBER 5736-CX1 FEATURE CODE 8001
LY20-0423	SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) SYSTEM/360 GENERALIZED INFORMATION SYSTEM SYSTEM MANUAL VOLUME II PROGRAM NUMBER 5736-CX1 FEATURE CODE 8003
LY20-0424	SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) SYSTEM/360 GENERALIZED INFORMATION SYSTEM SYSTEM MANUAL VOLUME III PROGRAM NUMBER 5736-CX1

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GH20-0574	SYSTEM/360 GENERALIZED INFORMATION SYSTEM APPLICATION DESCRIPTION MANUAL (5736-CX1)
SH20-0632	SYSTEM/360 GENERALIZED INFORMATION SYSTEM OPERATIONS MANUAL (5736-CX1)
SH20-0630	SYSTEM/360 GENERALIZED INFORMATION SYSTEM PROGRAM DESCRIPTION MANUAL VOLUME 1: SYSTEM OVERVIEW AND CONTROL (5736-CX1)
LY20-0425	SYSTEM/360 GENERALIZED INFORMATION SYSTEM SYSTEM MANUAL VOLUME 1 PROGRAM NUMBER 5736-CX1 FEATURE CODE 8802
GH20-0892	IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) APPLICATION DESCRIPTION MANUAL, PROGRAM NUMBER 5734-XX2
SH20-1030	IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) PROGRAM DESCRIPTION MANUAL, VOLUME 1: SYSTEM OVERVIEW AND CONTROL - PROGRAM PRODUCT MANUAL PROGRAM NUMBER 5734-XX1
SH20-1040	GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) VOLUME 2: DATA DESCRIPTION LANGUAGE - PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-XX1
SH20-1033	GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) VOLUME 3, PROCEDURAL LANGUAGE - PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-XX1
SH20-1032	IBM GENERALIZED INFORMATION SYSTEM, VERSION 2 (GIS/2) OPERATIONS MANUAL - PROGRAM NUMBER 5734-XX1
SH20-1177	PLANNING GUIDE FOR THE PL/I QUERY SUPPORT FEATURE OF GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) PROGRAM NUMBER 5734-XX1
GH20-4124	GENERALIZED INFORMATION SYSTEM, VERSION 2 (GIS/2) SPECIFICATIONS SHEET PROGRAM NUMBER 5734-XX1
GH20-4170	GENERALIZED INFORMATION SYSTEM, VERSION 2 (GIS/2) DESIGN OBJECTIVES - PROGRAM NUMBER 5734-XX1
LY20-0696	GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL VOLUME 1 - PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8115
LY20-0697	GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL VOLUME 2 - PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8116
LY20-0698	GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL VOLUME 3 - PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8117
LY20-0699	IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE ARITHMETIC STATEMENT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8125
LY20-0700	IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE TELEPROCESSING SUPPORT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8123
LY20-0701	IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE CONTROL STATEMENT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8124
LY20-0702	IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE PROCESSING STATEMENT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8126
LY20-0703	IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE FORMAL REPORT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8119
LY20-0704	IBM GENERALIZED INFORMATION SYSTEM VOLUME 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE HIERARCHIC FILE SUPPORT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8120
LY20-0705	IBM GENERALIZED INFORMATION SYSTEM VOLUME 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE FILE UPDATE AND CREATE FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8118
LY20-0706	IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE UTILITY FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8121
LY20-0707	IBM GENERALIZED INFORMATION SYSTEM VOLUME 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE EDIT AND ENCODE FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8122
LY20-0708	IBM GENERALIZED INFORMATION SYSTEM VOLUME 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE FILE MODIFY FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8127
LY20-0809	GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE PL/I QUERY SUPPORT FEATURE PROGRAM NUMBER 5734-XX1
GH20-0524	INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360 (SYSTEM DESCRIPTION) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-CX3
SH20-0635	INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360: OPERATIONS MANUAL, VOLUME I - SYSTEMS OPERATION PROGRAM NUMBER 5736-CX3
SH20-0636	INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360 OPERATIONS MANUAL VOLUME II - MACHINE OPERATIONS PROGRAM NUMBER 5736-CX3
SH20-0634	INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360 PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-CX3
**LY20-0431	INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360 SYSTEM MANUAL VOLUME I - PROGRAM LOGIC PROGRAM NUMBER 5736-CX3 FEATURE CODE 8001
LY20-0432	INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360 SYSTEM MANUAL VOLUME II - FLOWCHARTS PROGRAM NUMBER 5736-CX3 FEATURE CODE 8802
**LY20-0433	INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360: SYSTEM MANUAL, VOLUME III - ASSEMBLY LISTINGS MICROFICHE PROGRAM NUMBER 5736-CX3, FEATURE CODE 8003
GH20-0765	INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360 (SYSTEM DESCRIPTION) APPLICATION DESCRIPTION MANUAL (VERSION 2) PROGRAM NUMBER 5734-XX6
SH20-0910	INFORMATION MANAGEMENT SYSTEM/360, VERSION 2 SYSTEM/APPLICATION DESIGN GUIDE PROGRAM NUMBER 5734-XX6
SH20-0911	INFORMATION MANAGEMENT SYSTEM/360, VERSION 2 SYSTEM PROGRAMMING REFERENCE MANUAL PROGRAM NUMBER 5734-XX6
SH20-0912	INFORMATION MANAGEMENT SYSTEM/360, VERSION 2 APPLICATION PROGRAMMING REFERENCE MANUAL PROGRAM NUMBER 5734-XX6
SH20-0913	INFORMATION MANAGEMENT SYSTEM/360, VERSION 2, OPERATOR'S REFERENCE MANUAL PROGRAM NUMBER 5734-XX6
SH20-0914	INFORMATION MANAGEMENT SYSTEM/360, VERSION 2, MESSAGES AND CODES REFERENCE MANUAL, PROGRAM NUMBER 5734-XX6
SH20-0915	INFORMATION MANAGEMENT SYSTEM/360 VERSION 2 PROGRAM NUMBER 5734-XX6

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SH20-1007	INFORMATION MANAGEMENT SYSTEM/360 VERSION 2 MASTER INDEX PROGRAM NUMBER 5734-XX6
GH20-1074	INTERACTIVE QUERY FACILITY (IQF) FOR IMS/360 VERSION 2 PROGRAM NUMBER 5734-XX6 - GENERAL INFORMATION MANUAL
GH20-4067	INFORMATION MANAGEMENT SYSTEM/360 (IMS/360) VERSION 2 DESIGN OBJECTIVES - PROGRAM NUMBER 5734-XX6
GH20-4106	INFORMATION MANAGEMENT SYSTEM/360 (IMS/360) VERSION 2 PROGRAM NUMBER 5734-XX6
GH20-4191	INFORMATION MANAGEMENT SYSTEM/360 (IMS/360) VERSION 2 DATA COMMUNICATION FEATURE ENHANCEMENT PROGRAM NUMBER 5734-XX6
LY20-0629	INFORMATION MANAGEMENT SYSTEM/360, VERSION 2 PROGRAM NUMBER 5734-XX6
LY20-0630	SYSTEM MANUAL - LOGIC VOLUME I, FEATURE CODE 8080 INFORMATION MANAGEMENT SYSTEM/360, VERSION 2, VOLUME 2, SYSTEM MANUAL (FLOWCHARTS), MICROFICHE
LYB0-0631	PROGRAM NUMBER 5734-XX6, FEATURE CODE 8081 INFORMATION MANAGEMENT SYSTEM/360 VERSION 2, VOLUME 3, DATA BASE LISTINGS, MICROFICHE
LYB0-0632	PROGRAM NUMBER 5734-XX6, FEATURE CODE 8082 INFORMATION MANAGEMENT SYSTEM/360, VERSION 2, VOLUME 4, DATA COMMUNICATION LISTINGS, MICROFICHE
GH20-1074	PROGRAM NUMBER 5734-XX6, FEATURE CODE 8083 INTERACTIVE QUERY FACILITY (IQF) FOR IMS/360 VERSION 2 PROGRAM NUMBER 5734-XX6 - GENERAL INFORMATION MANUAL
GH20-4183	CASH AND CREDIT ACCOUNT MAINTENANCE PROGRAM PRODUCT DESIGN OBJECTIVES
GB21-0028	PROGRAM REPORT INVENTORY SYSTEM - FIELD DEVELOPED PROGRAM AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AAK
SB21-0029	PROGRAM REPORT INVENTORY SYSTEM PROGRAM DESCRIPTION OPERATIONS MANUAL PROGRAM NUMBER 5798-AAK
LB21-0030	PROGRAM REPORT INVENTORY SYSTEM - SYSTEM GUIDE PROGRAM NUMBER 5798-AAK

B1 Cross-Industry - Management, Planning, Project Control

GH20-0318	CUSTOMER INFORMATION CONTROL SYSTEM DOS-ENTRY (CICS/DOSE), PROGRAM NUMBER 5736-XX6, DOS-STANDARD (CICS/DOSS), PROGRAM NUMBER 5736-XX7, OS-STANDARD (CICS/OS), PROGRAM NUMBER 5736-U11, APPLICATION DESCRIPTION
SH20-0606	CUSTOMER INFORMATION CONTROL SYSTEM, OS-STANDARD (CICS/OS), (5736-U11) OPERATION MANUAL
SH20-0605	CUSTOMER INFORMATION CONTROL SYSTEM, OS-STANDARD (CICS/OS) (5736-U11), PROGRAM DESCRIPTION
GH20-1028	CUSTOMER INFORMATION CONTROL SYSTEM (CICS) DOS-ENTRY (CICS/DOSE) DOS-STANDARD (CICS/DOSS) OS-STANDARD V2 (CICS/OS) GENERAL INFORMATION MANUAL PROGRAM NUMBERS 5734-XX7, 5736-XX6, 5736-XX7
GH20-4043	CUSTOMER INFORMATION CONTROL SYSTEM OS - STANDARD (CICS/OS) AND LANGUAGE AND TERMINAL FEATURE (L/T) (FEATURE 6004, 6005, 6006) - DESIGN OBJECTIVES PROGRAM NUMBER 5736-U11
LY20-0369	CUSTOMER INFORMATION CONTROL SYSTEM OS-STANDARD (CICS/OS), (5736-U11), SYSTEM MANUAL, FEATURE CODE 8005
LY20-0604	CUSTOMER INFORMATION CONTROL SYSTEM, OS-STANDARD (CICS/OS) (5736-U11), LANGUAGE AND TERMINAL (L/T) FEATURE SYSTEM MANUAL, FEATURE CODE 8060
GH20-0318	CUSTOMER INFORMATION CONTROL SYSTEM DOS-ENTRY (CICS/DOSE), PROGRAM NUMBER 5736-XX6, DOS-STANDARD (CICS/DOSS), PROGRAM NUMBER 5736-XX7, OS-STANDARD (CICS/OS), PROGRAM NUMBER 5736-U11, APPLICATION DESCRIPTION
GH20-1028	CUSTOMER INFORMATION CONTROL SYSTEM (CICS) DOS-ENTRY (CICS/DOSE) DOS-STANDARD (CICS/DOSS) OS-STANDARD V2 (CICS/OS) GENERAL INFORMATION MANUAL PROGRAM NUMBERS 5734-XX7, 5736-XX6, 5736-XX7
SH20-1034	CUSTOMER INFORMATION CONTROL SYSTEM (CICS) OPERATIONS GUIDE - PROGRAM NUMBERS DOS-ENTRY 5736-XX6 DOS-STANDARD 5736-XX7
SH20-1043	CUSTOMER INFORMATION CONTROL SYSTEM (CICS) SYSTEM PROGRAMMER'S REFERENCE MANUAL PROGRAM NUMBERS DOS-ENTRY 5736-XX6, DOS-STANDARD 5736-XX7, OS-STANDARD 5734-XX7
SH20-1044	CUSTOMER INFORMATION CONTROL SYSTEM (CICS) TERMINAL OPERATOR'S GUIDE - PROGRAM NUMBERS DOS-ENTRY 5736-XX6, DOS-STANDARD 5736-XX7, OS-STANDARD 5734-XX7
SH20-1047	CUSTOMER INFORMATION CONTROL SYSTEM DOS - ENTRY (CIS DOS - STANDARD (CICS/DOSS) OS - STANDARD VERSION 2 (CICS/OS) APPLICATION PROGRAMMER'S REFERENCE MANUAL PROGRAM NUMBERS 5736-XX6, 5736-XX7, 5734-XX7
GH20-4131	CUSTOMER INFORMATION CONTROL SYSTEM/DOS ENTRY SPECIFICATION SHEETS - PROGRAM NUMBER 5736-XX6
LYB0-0724	CUSTOMER INFORMATION CONTROL SYSTEM/DISK OPERATING SYSTEM ENTRY (CICS-DOS E) LISTING; PROGRAM NUMBER 5736-XX6
LY20-0712	CUSTOMER INFORMATION CONTROL SYSTEM FEATURE NUMBER 8030 (DOS-ENTRY) LOGIC MANUAL - PROGRAM NUMBER 5736-XX6
GH20-0318	CUSTOMER INFORMATION CONTROL SYSTEM DOS-ENTRY (CICS/DOSE), PROGRAM NUMBER 5736-XX6, DOS-STANDARD (CICS/DOSS), PROGRAM NUMBER 5736-XX7, OS-STANDARD (CICS/OS), PROGRAM NUMBER 5736-U11, APPLICATION DESCRIPTION
GH20-1028	CUSTOMER INFORMATION CONTROL SYSTEM (CICS) DOS-ENTRY (CICS/DOSE) DOS-STANDARD (CICS/DOSS) OS-STANDARD V2 (CICS/OS) GENERAL INFORMATION MANUAL PROGRAM NUMBERS 5734-XX7, 5736-XX6, 5736-XX7
SH20-1034	CUSTOMER INFORMATION CONTROL SYSTEM (CICS) OPERATIONS GUIDE - PROGRAM NUMBERS DOS-ENTRY 5736-XX6 DOS-STANDARD 5736-XX7
SH20-1043	CUSTOMER INFORMATION CONTROL SYSTEM (CICS) SYSTEM PROGRAMMER'S REFERENCE MANUAL PROGRAM NUMBERS DOS-ENTRY 5736-XX6, DOS-STANDARD 5736-XX7, OS-STANDARD 5734-XX7
SH20-1044	CUSTOMER INFORMATION CONTROL SYSTEM (CICS) TERMINAL OPERATOR'S GUIDE - PROGRAM NUMBERS DOS-ENTRY 5736-XX6, DOS-STANDARD 5736-XX7, OS-STANDARD 5734-XX7
SH20-1047	CUSTOMER INFORMATION CONTROL SYSTEM DOS - ENTRY (CIS DOS - STANDARD (CICS/DOSS) OS - STANDARD VERSION 2 (CICS/OS) APPLICATION PROGRAMMER'S REFERENCE MANUAL PROGRAM NUMBERS 5736-XX6, 5736-XX7, 5734-XX7

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GH20-4134	CUSTOMER INFORMATION CONTROL SYSTEM/DOS-STANDARD (CICS/DOS-STANDARD) - PROGRAM NUMBER 5736-XX7
LYB0-0735	CUSTOMER INFORMATION CONTROL SYSTEM/DISK OPERATING SYSTEM STANDARD (CICS/DOSS) LISTINGS - PROGRAM NUMBER 5736-XX7
LY20-0713	CUSTOMER INFORMATION CONTROL SYSTEM (CICS) LOGIC MANUAL PROGRAM NUMBER 5736-XX7 (DOS-STANDARD) FEATURE NUMBER 8031
SH20-1043	CUSTOMER INFORMATION CONTROL SYSTEM (CICS) SYSTEM PROGRAMMER'S REFERENCE MANUAL PROGRAM NUMBERS DOS-ENTRY 5736-XX6, DOS-STANDARD 5736-XX7, OS-STANDARD 5734-XX7
SH20-1044	CUSTOMER INFORMATION CONTROL SYSTEM (CICS) TERMINAL OPERATOR'S GUIDE - PROGRAM NUMBERS DOS-ENTRY 5736-XX6, DOS-STANDARD 5736-XX7, OS-STANDARD 5734-XX7
SH20-1047	CUSTOMER INFORMATION CONTROL SYSTEM DOS - ENTRY (CIS) DOS - STANDARD (CICS/DOSS) OS - STANDARD VERSION 2 (CICS/OS) APPLICATION PROGRAMMER'S REFERENCE MANUAL PROGRAM NUMBERS 5736-XX6, 5736-XX7, 5734-XX7
SH20-1048	CUSTOMER INFORMATION CONTROL SYSTEM (CICS) OPERATING SYSTEM STANDARD VERSION 2 OPERATIONS GUIDE PROGRAM NUMBER 5734-XX7
GH20-4140	CUSTOMER INFORMATION CONTROL SYSTEM/OS STANDARD V2 (CICS/OS-STANDARD V2) PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-XX7
LY20-0714	CUSTOMER INFORMATION CONTROL SYSTEM (CICS) OPERATING SYSTEM STANDARD VERSION 2 - FEATURE NUMBER 8142 - LOGIC MANUAL PROGRAM NUMBER 5734-XX7
LYB0-0781	CUSTOMER INFORMATION CONTROL SYSTEM/OPERATING SYSTEM STANDARD (CICS/OS-STANDARD) VERSION 2 PROGRAM LISTINGS MICROPICHE - PROGRAM NUMBER 5734-XX7
GB21-0505	CUSTOMER INFORMATION FILE USING DOS/CICS FDP - AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AHX
SB21-0506	CUSTOMER INFORMATION FILE USING DOS/CICS FDP - PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-AHX
LB21-0507	CUSTOMER INFORMATION FILE USING DOS/CICS FDP - SYSTEMS GUIDE - PROGRAM NUMBER 5798-AHX
GH20-0841	DISPLAY MANAGEMENT SYSTEM APPLICATION DESCRIPTION PROGRAM NUMBER 5734-XX1
SH20-0909	DISPLAY MANAGEMENT SYSTEM PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-XX1
SH20-0919	DISPLAY MANAGEMENT SYSTEM OPERATOR'S MANUAL PROGRAM NUMBER 5734-XX1
GH20-4103	DISPLAY MANAGEMENT SYSTEMS (DMS) - PROGRAM NUMBER 5734-XX1
LY20-0634	DISPLAY MANAGEMENT SYSTEM, SYSTEM MANUAL PROGRAM NUMBER 5734-XX1, FEATURE CODE 8005
GB21-0393	IBGS - INTERACTIVE BUSINESS GAME SIMULATION - A GENERAL BUSINESS SIMULATION FOR APL/360 - PROGRAM NUMBER 5798-AGM FIELD DEVELOPED PROGRAM-AVAILABILITY NOTICE
SB21-0394	IBGS - INTERACTIVE BUSINESS GAME SIMULATION - A GENERAL BUSINESS SIMULATION FOR APL/360 - FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AGM
**LB21-0395	IBGS - INTERACTIVE BUSINESS GAME SIMULATION - A GENERAL BUSINESS SIMULATION FOR APL/360 - FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER 5798-AGM
GH20-0852	INTRODUCTION TO MINIPERT PROGRAM NUMBER 5734-XP3
**SH20-0995	MINIPERT PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER 5734-XP3
GH20-4122	MINIPERT - PROGRAM NUMBER 5734-XP3
LY20-0674	MINIPERT SYSTEM MANUAL, FEATURE NUMBER 8006 PROGRAM NUMBER 5734-XP3
LY20-0457	PROJECT MANAGEMENT SYSTEM/360 VERSION 3 NETWORK PROCESSOR SYSTEM MANUAL, PROGRAM NUMBER: 5734-XP1 FEATURE CODE: 8101
LY20-0459	PROJECT MANAGEMENT SYSTEM/360: VERSION 3, COST PROCESSOR - SYSTEM MANUAL PROGRAM NUMBER 5734-XP1 FEATURE CODE 8102
**LY20-0467	PROJECT MANAGEMENT SYSTEM/360 VERSION 3: REPORT PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 5734-XP1 FEATURE CODE 8101
LYB0-0454	PROJECT MANAGEMENT SYSTEM/360: VERSION 3, LISTINGS - SYSTEM MANUAL MICROPICHE PROGRAM NUMBER 5734-XP1 FEATURE CODE 8301
GH20-0855	INTRODUCTION TO PROJECT MANAGEMENT SYSTEM IV (PMSIV), PROGRAM PRODUCT MANUAL - PROGRAM NUMBER 5734-XP4
SH20-0898	PMS IV, COST PROCESSOR, PROGRAM DESCRIPTION AND OPERATIONS PROGRAM PRODUCT MANUAL - PROGRAM NUMBER 5734-XP4
SH20-0899	PMS IV, NETWORK PROCESSOR, PROGRAM DESCRIPTION AND OPERATIONS MANUAL, PROGRAM NUMBER 5734-XP4
SH20-0900	PROJECT MANAGEMENT SYSTEM IV (PMSIV) RESOURCE ALLOCATION PROCESSOR, PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5734-XP4
SH20-0901	PROJECT MANAGEMENT SYSTEM IV (PMS IV) REPORT PROCESSOR PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5734-XP4
GH20-4104	PROJECT MANAGEMENT SYSTEM IV, PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-XP4
**GH20-1035	PLANNING SYSTEM GENERATOR II (PSGII) GENERAL INFORMATION MANUAL PROGRAM NUMBER 5734-XT1
SH20-1041	PLANNING SYSTEMS GENERATOR II (PSG II) OPERATIONS MANUAL - PROGRAM NUMBER 5734-XT1
SH20-1042	PLANNING SYSTEMS GENERATOR II (PSG II) PROGRAM REFERENCE MANUAL - PROGRAM NUMBER 5734-XT1
GH20-4136	PROGRAM SYSTEMS GENERATOR II (PSG II) - SPECIFICATION SHEET PROGRAM NUMBER 5734-XT1
LY20-0710	PLANNING SYSTEMS GENERATOR II (PSG II) LOGIC MANUAL PROGRAM NUMBER 5734-XT1 FEATURE NUMBER 8114
**SH20-1164	PLANNING SYSTEMS GENERATOR II (PSG II) DOS OPERATOR'S GUIDE PROGRAM PRODUCT 5736-XT1
**SH20-1174	PLANNING SYSTEMS GENERATOR II (PSG II) DOS - PROGRAM REFERENCE MANUAL - PROGRAM PRODUCT 5736-XT1
GH20-4309	PSG -11 DOS SPECIFICATIONS - PROGRAM PRODUCT 5736-XT1
LY20-0808	PLANNING SYSTEMS GENERATOR II (PSG II) DOS LOGIC MANUAL PROGRAM NUMBER 5736-XT1
SH20-1092	APL/PDTS PROGRAMMING DEVELOPMENT TRACKING SYSTEM - PDTS IUP - PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5796-PAD
LY20-0746	APL/PDTS PROGRAMMING DEVELOPMENT TRACKING SYSTEM - PDTS IUP - SYSTEMS GUIDE - PROGRAM NUMBER 5796-PAD
G320-1517	APL/PDTS (PROGRAMMING DEVELOPMENT TRACKING SYSTEM) PROGRAM NUMBER 5796-PAD

ORDER NUMBER	TITLE
GH20-0690	PROJECT MANAGEMENT SYSTEM/360 VERSION 3 APPLICATION DESCRIPTION MANUAL - PROGRAM NUMBER 5734-XP1
SH20-0677	PROJECT MANAGEMENT SYSTEM/360 VERSION 3 PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER 5734-XP1
GH20-4004	PROJECT MANAGEMENT SYSTEM/360 VERSION 3 PROGRAM NUMBER 5734-XP1
GH20-4081	PROJECT MANAGEMENT SYSTEM/360 VERSION 3 FUNCTIONAL DESCRIPTION SHEET - PROGRAM NUMBER 5734-XP1
LY20-0460	PROJECT MANAGEMENT SYSTEM/360 VERSION 3 FLOWCHART SYSTEM MANUAL PROGRAM NUMBER: 5734-XP1 FEATURE CODE: 8105
LY20-0456	PROJECT MANAGEMENT SYSTEM/360: VERSION 3, RESOURCE ALLOCATION PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 5734-XP1 FEATURE CODE 8104
GH20-0855	INTRODUCTION TO PROJECT MANAGEMENT SYSTEM IV (PMSIV), PROGRAM PRODUCT MANUAL - PROGRAM NUMBER 5734-XP4
SH20-0898	PMS IV, COST PROCESSOR, PROGRAM DESCRIPTION AND OPERATIONS PROGRAM PRODUCT MANUAL - PROGRAM NUMBER 5734-XP4
SH20-0899	PMS IV, NETWORK PROCESSOR, PROGRAM DESCRIPTION AND OPERATIONS MANUAL, PROGRAM NUMBER 5734-XP4
SH20-0900	PROJECT MANAGEMENT SYSTEM IV (PMSIV) RESOURCE ALLOCATION PROCESSOR, PROGRAM DESCRIPTION/ OPERATIONS MANUAL - PROGRAM NUMBER 5734-XP4
SH20-0901	PROJECT MANAGEMENT SYSTEM IV (PMS IV) REPORT PROCESSOR PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5734-XP4
GH20-4104	PROJECT MANAGEMENT SYSTEM IV, PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-XP4
LYB0-0617	PROJECT MANAGEMENT SYSTEM IV (PMS IV) COST PROCESSOR ASSEMBLY LISTINGS PROGRAM NUMBER 5734-XP4, FEATURE CODE 8076
LYB0-0618	PROJECT MANAGEMENT SYSTEM IV (PMS IV) NETWORK PROCESSOR ASSEMBLY LISTINGS PROGRAM NUMBER 5734-XP4, FEATURE CODE 7406
LYB0-0619	PROJECT MANAGEMENT SYSTEM IV (PMS IV) RESOURCE ALLOCATION PROCESSOR ASSEMBLY LISTINGS PROGRAM NUMBER 5734-XP4, FEATURE CODE 8079
LYB0-0620	PROJECT MANAGEMENT SYSTEM IV (PMS IV) REPORT PROCESSOR ASSEMBLY LISTINGS PROGRAM NUMBER 5734-XP4, FEATURE CODE 8070
LY20-0609	PROJECT MANAGEMENT SYSTEM IV (PMS IV) PROGRAM NUMBER 5734-XP4, FEATURE NUMBER 8074 COST PROCESSOR SYSTEM MANUAL
LY20-0610	PROJECT MANAGEMENT SYSTEM IV (PMS IV) PROGRAM NUMBER 5734-XP4 - FEATURE NUMBER 8071 NETWORK PROCESSOR SYSTEM MANUAL
LY20-0611	PROJECT MANAGEMENT SYSTEM IV (PMSIV) RESOURCE ALLOCATION PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 5734-XP4, FEATURE CODE 8077
LY20-0612	PROJECT MANAGEMENT SYSTEM IV (PMS IV) PROGRAM NUMBER 5734-XP4 - FEATURE NUMBER 8068 REPORT PROCESSOR SYSTEM MANUAL
LY20-0613	PROJECT MANAGEMENT SYSTEM IV (PMSIV) COST PROCESSOR FLOWCHART MANUAL PROGRAM NUMBER 5734-XP4, FEATURE CODE 8075
LY20-0614	PROJECT MANAGEMENT SYSTEM IV (PMSIV) NETWORK PROCESSOR FLOWCHART MANUAL PROGRAM NUMBER 5734-XP4, FEATURE CODE 8072
LY20-0615	PROJECT MANAGEMENT SYSTEM IV (PMS IV) RESOURCE ALLOCATION PROCESSOR FLOWCHART MANUAL PROGRAM NUMBER 5734-XP4, FEATURE CODE 8078
LY20-0616	PROJECT MANAGEMENT SYSTEM IV (PMSIV) REPORT PROCESSOR FLOWCHART MANUAL PROGRAM NUMBER 5734-XP4, FEATURE CODE 8069
GH19-0014	IBM SYSTEM/360 RESOURCE ALLOCATION (REAL/360) FOR PROJECT CONTROL SYSTEM/360 APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-XP2
SH19-0026	IBM SYSTEM/360 RESOURCE ALLOCATION (REAL/360) FOR PROJECT CONTROL SYSTEM/360 PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER: 5736-XP2
GH20-4030	IBM SYSTEM/360 RESOURCE ALLOCATION FOR PROJECT CONTROL SYSTEM/360 PROGRAM NUMBER: 5736-XP2 PROGRAM PRODUCT SPECIFICATIONS
LY19-0007	IBM SYSTEM/360 RESOURCE ALLOCATION (REAL/360) FOR PROJECT CONTROL SYSTEM/360 LISTINGS MANUAL (PROGRAM NO. 5736-XP2, FEATURE CODE 8017)
**SH12-5407	IBM SYSTEM/360 AND SYSTEM/370, STORAGE AND INFORMATION RETRIEVAL SYSTEM (STAIRS), PROGRAM PRODUCT REFERENCE MANUAL - PROGRAM NUMBER 5734-XR3
**SH12-5509	IBM SYSTEM/360 AND SYSTEM/370, STORAGE AND INFORMATION RETRIEVAL SYSTEM (STAIRS), OPERATION GUIDE PROGRAM PRODUCT 5734-XR3
**GH20-4312	STORAGE AND INFORMATION RETRIEVAL SYSTEM SPECIFICATION SHEET (STAIRS) - PROGRAM NUMBER 5734-XR3
**LY12-5008	IBM SYSTEM/360 AND SYSTEM/370, STORAGE AND INFORMATION RETRIEVAL SYSTEM (STAIRS), PROGRAM LOGIC MANUAL VOL. I NARRATIVES - PROGRAM PRODUCT 5734-XR3
<b>82 Cross-Industry - Mathematics and Science</b>	
**GH20-0558	SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS 5736-P71, 5736-P72
SH20-0619	SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE: PROGRAM PROGRAM DESCRIPTION MANUAL PROGRAM NUMBERS 5736-P71 AND 5736-P72
SH20-0620	SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE - PS: OPERATIONS MANUAL - PROGRAM NUMBER 5736-P71
GH20-4079	SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE - PS (M44) PROGRAM PRODUCT FUNCTIONAL DESCRIPTION SHEET PROGRAM NUMBER 5736-P71
LY20-0407	SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE - PS SYSTEM MANUAL PROGRAM NUMBER 5736-P71 FEATURE CODE 8101
**GH20-0558	SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS 5736-P71, 5736-P72
SH20-0619	SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE: PROGRAM PROGRAM DESCRIPTION MANUAL PROGRAM NUMBERS 5736-P71 AND 5736-P72

ORDER NUMBER	TITLE
**GH20-0621	SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE - OS: OPERATIONS MANUAL - PROGRAM NUMBER 5736-P72
GH20-4080	SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE - OS PROGRAM PRODUCT SPECIFICATION SHEET - PROGRAM NUMBER 5736-P72
LY20-0406	SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE - OS SYSTEM MANUAL
GH20-1128	PROGRAM NUMBER 5736-P71 - FEATURE CODE 8101 MATH/BASIC FOR SYSTEM/3 AND INTERACTIVE TERMINAL FACILITY (ITF) GENERAL INFORMATION MANUAL - PROGRAM NUMBERS 5703-XM2, 5734-XM8
GH20-4308	MATH/BASIC FOR SYSTEM/3 AND ITF (OS, DOS AND TSO) SPECIFICATIONS - PROGRAM PRODUCT 5703-XM2, 5734-XM8
GH20-0849	INTRODUCTION TO MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) - PROGRAM PRODUCT MANUAL - PROGRAM NUMBER 5734-XM4
SH20-0908	MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) MIXED INTEGER PROGRAMMING (MIP) PROGRAM DESCRIPTION MANUAL
SH20-0924	MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX), OPERATIONS MANUAL - PROGRAM NUMBER 5734-XM4
SH20-0932	MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) CONTROL LANGUAGE USER'S MANUAL, PROGRAM NUMBER 5734-XM4
SH20-0959	MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) MESSAGE MANUAL, PROGRAM NUMBER 5734-XM4
SH20-0960	MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) READ COMMUNICATIONS FORMAT (READCOM) PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 5734-XM4
SH20-0968	MPSX LINEAR AND SEPARABLE PROGRAMMING, PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 5734-XM4
GH20-4102	MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) SPECIFICATION SHEET - PROGRAM NUMBER 5734-XM4
GH20-4221	GENERALIZED UPPER BOUNDING (GUB) FEATURE OF MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX), PPDO PROGRAM PRODUCT 5734-XM4 FEATURE 6059, 6060, 6061
LYB0-0643	MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) MICROFICHE ASSEMBLY LISTINGS - PROGRAM NUMBER 5734-XM4 FE SERVICE NUMBER 200080
LYB0-0644	MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX), MIXED INTEGER PROGRAMMING (MIP), PROGRAM NUMBER 5734-XM4, ASSEMBLY LISTING MICROFICHE
LY20-0640	MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) MIXED INTEGER PROGRAMMING (MIP) - SYSTEM MANUAL PROGRAM NUMBER 5734-XM4, FEATURE NUMBER 8056
LY20-0641	MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX), MIXED INTEGER PROGRAMMING (MIP) FLOWCHART MANUAL, PROGRAM NUMBER 5734-XM4, FEATURE CODE 8057
LY20-0642	MATHEMATICAL PROGRAM SYSTEM EXTENDED (MPSX) FLOWCHART MANUAL PROGRAM NUMBER 5734-XM4, FEATURE CODE 8055
LY20-0646	MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) SYSTEM MANUAL, PROGRAM NUMBER 5734-XM4, FEATURE CODE 8056
GH19-5012	MATRIX GENERATOR AND REPORT WRITER (MGRW) GENERAL INFORMATION MANUAL - PROGRAM PRODUCT 5734-XMC
GH19-5042	MATRIX GENERATOR AND REPORT WRITER (MGRW) PRINTER PROGRAM PRODUCT 5734-XMC
GH20-4220	IBM SYSTEM/360 AND SYSTEM/370 MATRIX GENERATOR AND REPORT WRITER (MGRW), PPDO PROGRAM PRODUCT 5734-XMC
GH20-0854	PROCEDURE LIBRARY-MATHEMATICS (PL-MATH) GENERAL INFORMATION MANUAL, PROGRAM NUMBER 5734-XM3
SH20-0905	PROCEDURE LIBRARY - MATHEMATICS (PL-MATH) PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 5734-XM3
**SH20-0908	PROCEDURE LIBRARY - MATHEMATICS (PL-MATH) OPERATIONS MANUAL, PROGRAM NUMBER 5734-XM3
GH20-4109	PROCEDURE LIBRARY-MATHEMATICS (PL-MATH) PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-XM3
LY20-0671	PROCEDURE LIBRARY - MATHEMATICS (PL-MATH) SYSTEM MANUAL PROGRAM NUMBER 5734-XM3 FEATURE NUMBER 8051
GH12-5103	IBM SYSTEM/360 AND SYSTEM/370, IBM 1130 AND 1800 SUBROUTINE LIBRARY-MATHEMATICS (SL-MATH) GENERAL INFORMATION MANUAL
GH20-4146	IBM SYSTEM/360 AND SYSTEM/370 SUBROUTINE LIBRARY MATHEMATICS (SL-MATH) SPECIFICATIONS - PROGRAM NUMBER 5736-XM7
LYA2-5203	IBM SYSTEM/360 AND SYSTEM/370 SUBROUTINE LIBRARY MATHEMATICS - MICROFICHE LISTING - PROGRAM NUMBER 5736-XM7

**83 Cross-Industry - Simulation**

GH20-0874	COMPUTER SYSTEM SIMULATOR II (CSS II) GENERAL INFORMATION MANUAL, PROGRAM NUMBER 5734-XS5
SH20-0875	COMPUTER SYSTEM SIMULATOR II (CSS II) PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER 5734-XS5,
GH20-4034	COMPUTER SYSTEM SIMULATOR II (CSS II) SPECIFICATIONS SHEET PROGRAM NUMBER 5734-XS5
GH20-4108	COMPUTER SYSTEM SIMULATOR II (CSS II) PROGRAM PRODUCT SPECIFICATIONS, PROGRAM NUMBER 5734-XS5
LY20-0661	COMPUTER SYSTEM SIMULATOR II (CSS II), SYSTEM MANUAL PROGRAM NUMBER 5734-XS5, FEATURE CODE 8035
GH19-7000	CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) AND GRAPHIC FEATURE (CSMP III GRAPHIC FEATURE) GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5734-XS9
**SH19-7001	CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) PROGRAM REFERENCE MANUAL - PROGRAM NUMBER 5734-XS9
SH19-7002	CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) OPERATIONS GUIDE - PROGRAM NUMBER 5734-XS9
SH19-7003	CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) GRAPHIC FEATURE - PROGRAM REFERENCE MANUAL - PROGRAM NUMBER 5734-XS9
SH19-7004	CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) GRAPHIC FEATURE OPERATIONS GUIDE - PROGRAM NUMBER 5734-XS9
GH19-7010	GRAPHIC FEATURE FOR THE CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) - PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-XS9
GH20-4303	CONTINUOUS SYSTEM MODELING PROGRAM (CSMP III) SPECIFICATION SHEET - PROGRAM NUMBER 5734-XS9
LY19-7000	CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) LOGIC MANUAL - PROGRAM NUMBER 5734-XS9, FEATURE NUMBER 8143
LY19-7001	CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) GRAPHIC FEATURE LOGIC MANUAL - PROGRAM NUMBER 5734-XS9 FEATURE NUMBER 8144
**GH20-0691	GENERAL PURPOSE SIMULATION SYSTEM/360 VERSION 2 APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5734-XS1
SH20-0692	GENERAL PURPOSE SIMULATION SYSTEM/360 OS VERSION 2 OPERATOR'S MANUAL - PROGRAM NUMBER 5734-XS1

ORDER NUMBER	TITLE
SH20-0693	GENERAL PURPOSE SIMULATION SYSTEM/360 OS VERSION 2 INTRODUCTORY USER'S MANUAL PROGRAM NUMBER 5734-XS1
SH20-0694	GENERAL PURPOSE SIMULATION SYSTEM/360 OS AND DOS VERSION 2 USER'S MANUAL PROGRAM NUMBERS 5734-XS1 AND 5736-XS1
GH20-4077	GENERAL PURPOSE SIMULATION SYSTEM/360 OS VERSION 2 PROGRAM PRODUCT FUNCTIONAL DESCRIPTION SHEET PROGRAM PRODUCT 5734-XS1
LY20-0475	GENERAL PURPOSE SIMULATION SYSTEM/360 OS: VERSION 2 - SYSTEM MANUAL PROGRAM NUMBER 5734-XS1 FEATURE CODE 8151
**GH20-0691	GENERAL PURPOSE SIMULATION SYSTEM/360 VERSION 2 APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5734-XS1
SH20-0693	GENERAL PURPOSE SIMULATION SYSTEM/360 OS VERSION 2 INTRODUCTORY USER'S MANUAL PROGRAM NUMBER 5734-XS1
SH20-0694	GENERAL PURPOSE SIMULATION SYSTEM/360 OS AND DOS VERSION 2 USER'S MANUAL PROGRAM NUMBERS 5734-XS1 AND 5736-XS1
SH20-0698	GENERAL PURPOSE SIMULATION SYSTEM/360 DOS VERSION 2 OPERATION MANUAL - PROGRAM NUMBER 5736-XS1
GH20-4078	GENERAL PURPOSE SIMULATION SYSTEM/360 DOS VERSION 2 PROGRAM PRODUCT FUNCTIONAL DESCRIPTION SHEET PROGRAM PRODUCT 5734-XS1
LY20-0483	GENERAL PURPOSE SIMULATION SYSTEM/360 DOS VERSION 2 SYSTEM MANUAL PROGRAM NUMBER 5736-XS1 FEATURE CODE 8101
GH20-0825	GENERAL PURPOSE SIMULATION SYSTEM V (OS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5734-XS2
SH20-0851	GENERAL PURPOSE SIMULATION SYSTEM V USER'S MANUAL, PROGRAM NUMBER 5734-XS2
SH20-0866	GENERAL PURPOSE SIMULATION SYSTEM V, INTRODUCTORY USER'S MANUAL, PROGRAM NUMBERS 5734-XS2 AND 5736-XS3
SH20-0867	GENERAL PURPOSE SIMULATING SYSTEM V-OS (GPSS V-OS) OPERATIONS MANUAL PROGRAM NUMBER 5734-XS2
GH20-4035	GENERAL PURPOSE SIMULATION SYSTEM V-OS (GPSS V-OS) PROGRAM NUMBER 5734-XS2
GX20-1828	GENERAL PURPOSE SIMULATION SYSTEM V, (GPSS V), BLOCK STATEMENT FORMATS SYSTEM OPTIONS - PROGRAM NUMBERS 5734-XS2 5736-XS3
GX20-1829	GENERAL PURPOSE SIMULATION SYSTEM V REFERENCE CARD PROGRAM NUMBERS 5734-SX2 (OS) 5736-SX3 (DOS)
LY20-0596	GENERAL PURPOSE SIMULATION SYSTEM V-OS (GPSS V-OS) SYSTEM MANUAL, PROGRAM NUMBER 5734-XS2 FEATURE CODE 8101
GH20-0826	GENERAL PURPOSE SIMULATION SYSTEM V (DOS) APPLICATION DESCRIPTION MANUAL, PROGRAM NUMBER 5736-XS3
SH20-0851	GENERAL PURPOSE SIMULATION SYSTEM V USER'S MANUAL, PROGRAM NUMBER 5734-XS2
SH20-0866	GENERAL PURPOSE SIMULATION SYSTEM V, INTRODUCTORY USER'S MANUAL, PROGRAM NUMBERS 5734-XS2 AND 5736-XS3
SH20-0868	GENERAL PURPOSE SIMULATION SYSTEM V - DOS (GPSS V - DOS) OPERATIONS MANUAL, PROGRAM NUMBER 5736-XS3
GH20-4040	GENERAL PURPOSE SIMULATION SYSTEM V-DOS (GPSS V-DOS) PROGRAM NUMBER 5736-XS3
GX20-1828	GENERAL PURPOSE SIMULATION SYSTEM V, (GPSS V), BLOCK STATEMENT FORMATS SYSTEM OPTIONS - PROGRAM NUMBERS 5734-XS2 5736-XS3
GX20-1829	GENERAL PURPOSE SIMULATION SYSTEM V REFERENCE CARD PROGRAM NUMBERS 5734-SX2 (OS) 5736-SX3 (DOS)
LY20-0602	GENERAL PURPOSE SIMULATION SYSTEM V - DOS SYSTEM MANUAL, PROGRAM NUMBER 5736-XS3 FEATURE CODE 8101

**TYPE II PROGRAMS (20-83)**

NOTE: The following TYPE II Program Publications are available under SLSS by order number subscription only.

**24 COBOL**

GH20-0217 SYSTEM/360 COBOL EDIT ON THE 1401 PROGRAM REFERENCE MANUAL (1401-SE-13X)

**25 FORTRAN**

GH20-0492 SYSTEM/360 DECISION LOGIC TRANSLATOR  
APPLICATION DESCRIPTION  
PROGRAM NUMBER 360A-CX-32X

GH20-0572 SYSTEM/360 DECISION LOGIC TRANSLATOR (360A-CX-32X) PROGRAM  
DESCRIPTION MANUAL

GH20-0573 SYSTEM/360 DECISION LOGIC TRANSLATOR (360A-CX-32X)  
OPERATIONS MANUAL

GY20-0263 SYSTEM/360 DECISION LOGIC TRANSLATOR SYSTEM MANUAL  
PROGRAM NUMBER 360A-CX-32X

**30 Access Methods, Data Management, I/O CONTROL PROGRAMS**

GH20-0319 SYSTEM/360 DATA CONVERSION AND LABEL PROCESSING SUBROUTINES,  
VERSION 2 PROGRAM REFERENCE MANUAL (360A-SE-23X)

\*\*GH20-1171 SYSTEM/370 DISTRIBUTED SYSTEM PROGRAM (S/370 DSP) GENERAL  
INFORMATION MANUAL - APPLICATION PROGRAM NUMBER 360A-TX-032

GH20-0535 PLAN GRAPHICS SUPPORT FOR THE IBM 2250  
APPLICATION DESCRIPTION MANUAL  
PROGRAM NUMBER 360A-CX-26X

GH20-0614 PLAN GRAPHICS SUPPORT FOR THE IBM 2250 ON SYSTEM/360 (OS)  
OR IBM 1130 PROGRAM DESCRIPTION MANUAL PROGRAM NUMBERS  
360A-CX-34X AND 1130-CX-33X

GH20-0615 PLAN GRAPHICS SUPPORT FOR THE IBM 2250 ON SYSTEM/360 (OS)  
OPERATIONS MANUAL PROGRAM NUMBER 360A-CX-34X

GY20-0394 PLAN GRAPHICS SUPPORT FOR THE IBM 2250 ON SYSTEM/360 (OS)  
SYSTEM MANUAL  
PROGRAM NUMBER 360A-CX-34X

GH20-0241 SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR DOS/360  
APPLICATION DESCRIPTION

GH20-0347 SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR DOS/360  
OPERATOR'S MANUAL (360A-SE-32X)

GH20-0346 SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR DOS/360  
USER'S MANUAL (360A-SE-32X)

ORDER NUMBER	TITLE
GY20-0096	SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR DOS/360 SYSTEM MANUAL PROGRAM NUMBER 360A-SE-32X
GH20-0242	SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR OS/360 APPLICATION DESCRIPTION PROGRAM NUMBER 360A-SE-33X
GH20-0349	SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR OS/360 USER'S MANUAL (360A-SE-33X)
GH20-0350	SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR OS/360 OPERATOR'S MANUAL (360A-SE-33X)
GY20-0097	SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR OS/360 SYSTEM MANUAL PROGRAM NUMBER 360A-SE-33X

### 31 Support Programs

GH20-0490	PROBLEM LANGUAGE ANALYZER (PLAN) APPLICATION DESCRIPTION PROGRAM NUMBERS 1130-CX-25X 360A-CX-26X 360A-CX-27X
GH20-0594	PROBLEM LANGUAGE ANALYZER (PLAN) - PROGRAM NUMBERS 1130-CX-25X, 360A-CX-26X, 360A-CX-27X PROGRAM REFERENCE MANUAL
GH20-0597	SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (DOS) (360A-CX-26X) OPERATIONS MANUAL
GH20-0626	PROBLEM LANGUAGE ANALYZER (PLAN) USERS' INTRODUCTION PROGRAM NUMBERS 1130-CX-25X, 360A-CX-26X AND 360A-CX-27X
GY20-0345	SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (DOS/OS) VOLUME I - FLOWCHART NARRATIVES SYSTEM MANUAL PROGRAM NUMBERS 360A-CX-26X, 360A-CX-27X
GY20-0346	SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (DOS/OS) VOLUME II - FLOWCHARTS SYSTEM MANUAL PROGRAM NUMBERS 360A-CX-26X, 360A-CX-27X
GY20-0350	SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (DOS) VOLUME III - ASSEMBLY LISTINGS SYSTEM MANUAL PROGRAM NUMBER 360A-CX-26X
GH20-0490	PROBLEM LANGUAGE ANALYZER (PLAN) APPLICATION DESCRIPTION PROGRAM NUMBERS 1130-CX-25X 360A-CX-26X 360A-CX-27X
GH20-0594	PROBLEM LANGUAGE ANALYZER (PLAN) - PROGRAM NUMBERS 1130-CX-25X, 360A-CX-26X, 360A-CX-27X PROGRAM REFERENCE MANUAL
GH20-0596	SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (OS) OPERATIONS MANUAL - PROGRAM NUMBER 360A-CX-27X
GH20-0626	PROBLEM LANGUAGE ANALYZER (PLAN) USERS' INTRODUCTION PROGRAM NUMBERS 1130-CX-25X, 360A-CX-26X AND 360A-CX-27X
GH20-1066	PROBLEM LANGUAGE ANALYZER (PLAN) PROGRAM REFERENCE MANUAL PROGRAM NUMBERS 1130-CX-25X, 360A-CX-27X
GY20-0345	SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (DOS/OS) VOLUME I - FLOWCHART NARRATIVES SYSTEM MANUAL PROGRAM NUMBERS 360A-CX-26X, 360A-CX-27X
GY20-0346	SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (DOS/OS) VOLUME II - FLOWCHARTS SYSTEM MANUAL PROGRAM NUMBERS 360A-CX-26X, 360A-CX-27X
GY20-0351	SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (OS) VOLUME IV - ASSEMBLY LISTINGS SYSTEM MANUAL PROGRAM NUMBER 360A-CX-27X

### 32 Utilities

GH20-0194	SYSTEM/360 DATA CONVERSION UTILITIES - APPLICATION DESCRIPTION PROGRAM NUMBERS, 360A-SE-15X, 360A-SE-20X, 360A-SE-26X
GH20-0232	SYSTEM/360 DATA CONVERSION UTILITY I PROGRAMMER'S MANUAL (360A-SE-15X)
GH20-0233	SYSTEM/360 DATA CONVERSION UTILITY I OPERATOR'S MANUAL (360A-SE-15X)
GH20-0194	SYSTEM/360 DATA CONVERSION UTILITIES - APPLICATION DESCRIPTION PROGRAM NUMBERS, 360A-SE-15X, 360A-SE-20X, 360A-SE-26X
GH20-0314	SYSTEM/360 DATA CONVERSION UTILITY II, VERSION 3 (DIRECT ACCESS INDEXED SEQUENTIAL) - OPERATOR'S MANUAL (360A-SE-20X)
GY20-0067	SYSTEM/360 DATA CONVERSION UTILITIES II, VERSION 2 (SEQUENTIAL, DIRECT ACCESS) SYSTEM MANUAL PROGRAM NUMBER 360A-SE-20X
GH20-0194	SYSTEM/360 DATA CONVERSION UTILITIES - APPLICATION DESCRIPTION PROGRAM NUMBERS, 360A-SE-15X, 360A-SE-20X, 360A-SE-26X
GH20-0285	SYSTEM/360 DATA CONVERSION UTILITY III, VERSION 2 PROGRAMMER'S MANUAL (360A-SE-26X)
GH20-0286	SYSTEM/360 DATA CONVERSION UTILITY III, VERSION 2 OPERATOR'S MANUAL PROGRAM NUMBER 360A-SE-26X
GY20-0042	SYSTEM/360 DATA CONVERSION UTILITY III, VERSION 2 - SYSTEM MANUAL PROGRAM NUMBER 360A-SE-26X

### 36 Control Program

GH20-0967	SYSTEM DESCRIPTION MANUAL FOR OS/MVT WITH RESOURCE SECURITY - PROGRAM NUMBER 360A-SV-007
GH20-1021	OS/MVT WITH RESOURCE SECURITY INSTALLATION AND SYSTEM PROGRAMMERS GUIDE - PROGRAM NUMBER 360A-SV-007
GH20-1057	OS/MVT WITH RESOURCE SECURITY, SECURITY OFFICER'S GUIDE PROGRAM NUMBER 360A-SV-007
GH20-1058	RESOURCE SECURITY (FOR OS/MVT)-GENERAL INFORMATION AND PLANNING MANUAL, PROG. NO. 360A-SV-007
GY20-0738	OS/MVT WITH RESOURCE SECURITY - LOGIC MANUAL PROGRAM NUMBER 360A-SV-007 TYPE 1 EXTENSION

### 38 Remote Job Entry

GH20-0545	SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM (RAX) (360A-CX-17X) VERSION 4 APPLICATION DESCRIPTION
GH20-0355	SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM (RAX) (360A-CX-17X) VERSION 3 OPERATIONS MANUAL
GH20-0354	SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM (RAX) (360A-CX-17X) VERSION 4 PROGRAM DESCRIPTION MANUAL
GY20-0101	SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM (RAX) VERSION 3 SYSTEM MANUAL PROGRAM NUMBER 360A-CX-17X

ORDER NUMBER	TITLE
<u>60 Industries - General Information</u>	
GC20-1740	BIBLIOGRAPHY OF APPLICATION PUBLICATIONS - STATE AND LOCAL GOVERNMENT INDUSTRY
GC20-1747	BIBLIOGRAPHY OF APPLICATION PUBLICATIONS EDUCATION INDUSTRY
GH20-0507	BIBLIOGRAPHY OF APPLICATION PUBLICATIONS FINANCE INDUSTRIES
GH20-0522	BIBLIOGRAPHY OF APPLICATION PUBLICATIONS - DISTRIBUTION INDUSTRIES
GH20-0530	BIBLIOGRAPHY OF APPLICATION PUBLICATIONS, PUBLIC UTILITY INDUSTRIES
GH20-0531	BIBLIOGRAPHY OF APPLICATION PUBLICATIONS - MEDIA INDUSTRIES
GH20-0536	BIBLIOGRAPHY OF APPLICATION PUBLICATIONS INSURANCE INDUSTRY
GH20-0970	BIBLIOGRAPHY OF APPLICATION PUBLICATIONS MEDICAL INDUSTRIES
<u>63 Distribution</u>	
GE20-0306	1287 INPUT CONVERSION PROGRAM, APPLICATION DESCRIPTION PROGRAM NUMBER 360A-DR-07X
GH20-0527	SYSTEM/360 1287 INPUT CONVERSION PROGRAM (360A-DR-07X) PROGRAM DESCRIPTION MANUAL
GH20-0528	SYSTEM/360 1287 INPUT CONVERSION PROGRAM (360A-DR-07X) OPERATIONS MANUAL
GY20-0209	SYSTEM/360 1287 INPUT CONVERSION PROGRAM SYSTEM MANUAL PROGRAM NUMBER 360A-DR-07X
GE20-0188	RETAIL IMPACT (INVENTORY MANAGEMENT PROGRAM AND CONTROL TECHNIQUES) - APPLICATION DESCRIPTION PROGRAM NUMBERS: 360A-DR-04X, 360A-DR-05X, 360A-DR-08X, 360A-DR-09X
GH20-0481	RETAIL IMPACT FASHION SYSTEM UNDER OPERATING SYSTEM/360 (360A-DR-04X) - OPERATIONS MANUAL
GH20-0480	IBM RETAIL IMPACT FASHION SYSTEM UNDER OPERATING SYSTEM/360 (360A-DR-04X) - PROGRAM DESCRIPTION MANUAL
GE20-0188	RETAIL IMPACT (INVENTORY MANAGEMENT PROGRAM AND CONTROL TECHNIQUES) - APPLICATION DESCRIPTION PROGRAM NUMBERS: 360A-DR-04X, 360A-DR-05X, 360A-DR-08X, 360A-DR-09X
GH20-0591	SYSTEM/360 RETAIL IMPACT STAPLE SYSTEM (OS) PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 360A-DR-05X
GH20-0593	SYSTEM/360 RETAIL IMPACT STAPLE SYSTEM (OS) OPERATIONS MANUAL - PROGRAM NUMBER 360A-DR-09X
GE20-0188	RETAIL IMPACT (INVENTORY MANAGEMENT PROGRAM AND CONTROL TECHNIQUES) - APPLICATION DESCRIPTION PROGRAM NUMBERS: 360A-DR-04X, 360A-DR-05X, 360A-DR-08X, 360A-DR-09X
GH20-0541	RETAIL IMPACT FASHION SYSTEM UNDER DISK OPERATING SYSTEM/360 (360A-DR-08X), OPERATIONS MANUAL
GH20-0540	RETAIL IMPACT FASHION SYSTEM UNDER DISK OPERATING SYSTEM/360 (360A-DR-08X) PROGRAM DESCRIPTION MANUAL
GE20-0188	RETAIL IMPACT (INVENTORY MANAGEMENT PROGRAM AND CONTROL TECHNIQUES) - APPLICATION DESCRIPTION PROGRAM NUMBERS: 360A-DR-04X, 360A-DR-05X, 360A-DR-08X, 360A-DR-09X
GH20-0592	SYSTEM/360 RETAIL IMPACT STAPLE SYSTEM (DOS) OPERATIONS MANUAL - PROGRAM NUMBER 360A-DR-09X
GH20-0599	SYSTEM/360 RETAIL IMPACT STAPLE SYSTEM (DOS) PROGRAM DESCRIPTION MANUAL - PROGRAM NUMBER 360A-DR-09X
GH20-0173	SYSTEM/360 WHOLESALE IMPACT PROGRAM LIBRARY (360A-DW-05X) - APPLICATION DESCRIPTION
GH20-0256	SYSTEM/360 WHOLESALE IMPACT PROGRAM LIBRARY (360A-DW-05X) - OPERATOR'S MANUAL
GH20-0255	SYSTEM/360 WHOLESALE IMPACT PROGRAM LIBRARY (360A-DW-05X) - USER'S MANUAL
GY20-0230	SYSTEM/360 WHOLESALE IMPACT PROGRAM LIBRARY SYSTEM MANUAL PROGRAM NUMBERS 360A-DW-05X, 360V-DW-06X
<u>64 Education</u>	
GH20-0587	COURSEWRITER III FOR SYSTEM/360 VERSION 2 APPLICATION DESCRIPTION PROGRAM NUMBER 360A-UX-01X
GH20-0609	COURSEWRITER III FOR SYSTEM/360 (360A-UX-01X) VERSION 2 AUTHOR'S GUIDE
GH20-0610	COURSEWRITER III FOR SYSTEM/360 (360A-UX-01X) VERSION 2 SUPERVISOR'S GUIDE
GH20-0608	COURSEWRITER III FOR SYSTEM/360 (360A-UX-01X) STUDENT/MONITOR USER'S GUIDE VERSION 2
GH20-0720	COURSEWRITER III FOR SYSTEM/360 VERSION 2 OPERATOR'S GUIDE PROGRAM NUMBER 360A-UX-01X
GX20-1780	COURSEWRITER III SYSTEM STUDENT/MONITOR REFERENCE CARD PROGRAM NUMBERS 5734-E12 360A-UX-01X
GX20-1781	IBM AUTHOR'S COURSEWRITER III REFERENCE CARD PROGRAM NUMBERS 360A-UX-01X, 5734-E12
GX20-1782	IBM SUPERVISOR'S COURSEWRITER III REFERENCE CARD PROGRAM NUMBERS 5734-E12, 360A-UX-01X
GY20-0372	COURSEWRITER III FOR SYSTEM/360 VERSION 2 SYSTEM PROGRAMMER'S GUIDE PROGRAM NUMBER 360A-UX-01X
GH20-0202	STUDENT SCHEDULING SYSTEM/360 APPLICATION DESCRIPTION PROGRAM NUMBERS 360A-US-06X, 360A-US-07X
GY20-0213	STUDENT SCHEDULING SYSTEM/360 THE SCHEDULER PROGRAM PROGRAM NUMBER 360A-US-07X
GH20-0239	STUDENT SCHEDULING SYSTEM/360 THE SCHEDULER PROGRAM (360A-US-07X) USER'S MANUAL
GH20-0202	STUDENT SCHEDULING SYSTEM/360 APPLICATION DESCRIPTION PROGRAM NUMBERS 360A-US-06X, 360A-US-07X
GH20-0220	STUDENT SCHEDULING SYSTEM/360 THE TALLY AND CONFLICT MATRIX PROGRAMS (360A-US-06X) USER'S MANUAL
<u>65 Engineering (see also 82 and 83 Cross-Industry)</u>	
GH20-0617	MECHANISM DESIGN SYSTEM-KINEMATICS PROGRAM DESCRIPTION MANUAL PROGRAM NOS. 1130-EM-03X, 360A-EM-04X AND 360A-EM-05X
GH20-0618	MECHANISM DESIGN SYSTEM-KINEMATICS OPERATIONS MANUAL PROGRAM NOS. 1130-EM-03X, 360A-EM-04X AND 360A-EM-05X

ORDER NUMBER	TITLE
GH20-0489	PROGRAM FOR OPTICAL SYSTEM DESIGN/II (POSD/II) APPLICATION DESCRIPTION PROGRAM NUMBER 1130-EO-14X
GH20-0577	PROGRAM FOR OPTICAL SYSTEM DESIGN/II (POSD/II) (1130-EO-14X, 360A-EO-15X, 360A-EO-16X) PROGRAM DESCRIPTION MANUAL
GH20-0578	PROGRAM FOR OPTICAL SYSTEM DESIGN/II (POSD/II) (1130-EO-14X, 360A-EO-15X, 360A-EO-16X) OPERATIONS MANUAL
GY20-0364	SYSTEM/360 PROGRAM FOR OPTICAL SYSTEM DESIGN/II (POSD/II) (OS) SYSTEM MANUAL-ASSEMBLY LISTINGS PROGRAM NUMBER 360A-EO-15X
GY20-0365	SYSTEM/360 PROGRAM FOR OPTICAL SYSTEM DESIGN/II (POSD/II) (DOS) SYSTEM MANUAL-ASSEMBLY LISTINGS PROGRAM NUMBER 360A-EO-16X

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GE20-0246	SYSTEM/360 DEMAND DEPOSIT ACCOUNTING APPLICATION DESCRIPTION PROGRAM NUMBER 360A-FB-15X
GH20-0262	SYSTEM/360 DEMAND DEPOSIT ACCOUNTING (360A-FB-15X) - --OPERATOR'S MANUAL
GH20-0263	SYSTEM/360 DEMAND DEPOSIT ACCOUNTING (360A-FB-15X) PROGRAMMER'S MANUAL - PROGRAM NUMBER 360A-FB-15X
GH20-0149	SYSTEM/360 ONLINE TELLER PROGRAM WITH BACKGROUND PROCESSING CAPABILITY (360A-FB-16X) APPLICATION DESCRIPTION
GH20-0325	SYSTEM/360 ONLINE TELLER PROGRAM WITH BACKGROUND PROCESSING CAPABILITY (PROGRAM NUMBER 360A-FB-16X) OPERATOR'S MANUAL
GH20-0305	SYSTEM/360 ON LINE TELLER PROGRAM WITH BACKGROUND PROCESSING CAPABILITY (PROGRAM NUMBER 360A-FB-16X) PROGRAMMER'S MANUAL
GY20-0071	SYSTEM/360 ONLINE TELLER PROGRAM WITH BACKGROUND PROCESSING CAPABILITY SYSTEM'S MANUAL, PROGRAM NUMBER 360A-FB-16X
GE20-0228	OPTIMUM BOND BIDDING - USER'S MANUAL PROGRAM NUMBER 360A-FI-06X

#### 71 Insurance

NOTE: The ALIS publications listed below apply to both Version 1 (360A-IL-09X) and Version 2 (5736-N11).  
See "71 INSURANCE" in "Application Program Products and Other Licensed Application Programs" for manuals applying Version II alone.

GH20-0126	ADVANCED LIFE INFORMATION SYSTEM (DOS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-N11
GH20-0483	ADVANCED LIFE INFORMATION SYSTEM (DOS) POLICY MASTER RECORD CODE BOOK PROGRAM NUMBER 5736-N11
GH20-0517	ADVANCED LIFE INFORMATION SYSTEM (DOS) OPERATIONS MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0518	ADVANCED LIFE INFORMATION SYSTEM (DOS) PROGRAM DESCRIPTION MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0519	ADVANCED LIFE INFORMATION SYSTEM (DOS) UTILITY PROGRAM DESCRIPTION MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0588	ADVANCED LIFE INFORMATION SYSTEM (DOS) HOME OFFICE INQUIRY PROGRAM OPERATION MANUAL PROGRAM NUMBER 5736-N11
GH20-0645	ADVANCED LIFE INFORMATION SYSTEM (DOS) BATCH EDIT, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0646	ADVANCED LIFE INFORMATION SYSTEM (DOS) ALIS -- INPUT EDIT, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0647	ADVANCED LIFE INFORMATION SYSTEM (DOS) FREQUENTLY USED RECORD FORMATS, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0648	ADVANCED LIFE INFORMATION SYSTEM (DOS) MISCELLANEOUS VOLUME, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0649	ADVANCED LIFE INFORMATION SYSTEM (DOS) FILE MAINTENANCE RUN EXECUTIVE, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0650	ADVANCED LIFE INFORMATION SYSTEM (DOS) DATA CELL REORGANIZATION PROGRAM, POLICY MASTER RECORD MERGE PROGRAM, DATA CELL RECONSTRUCTION PROGRAM, AND DATA CELL RESTORE PROGRAM, SYSTEMS MANUAL PROGRAM NUMBERS 360A-IL-09X AND 5736-N11
GH20-0651	ADVANCED LIFE INFORMATION SYSTEM (DOS) ALIS -- FILE MAINTENANCE INCLUDE (R) ROUTINES (NARRATIVES), SYSTEM MANUAL - PROGRAM NUMBERS 360A-IL-09X AND 5736-N11
GH20-0652	ADVANCED LIFE INFORMATION SYSTEM (DOS) FILE MAINTENANCE INCLUDE (R) ROUTINES (FLOWCHARTS), SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0653	ADVANCED LIFE INFORMATION SYSTEM (DOS) FILE MAINTENANCE CALL (S) ROUTINES (NARRATIVES), SYSTEM MANUAL PROGRAM NUMBERS 360A-IL-09X, 5736-N11
GH20-0654	ADVANCED LIFE INFORMATION SYSTEM (DOS) FILE MAINTENANCE CALL ROUTINES (S) (FLOWCHARTS), SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0655	ADVANCED LIFE INFORMATION SYSTEM (DOS) FILE MAINTENANCE ISSUES, ADDITIONS, COMPLEX CHANGES, AND TERMINATIONS TRANSACTIONS, SYSTEM MANUAL PROGRAM NUMBERS 360A-IL-09X AND 5736-N11
GH20-0656	ADVANCED LIFE INFORMATION SYSTEM (DOS) FILE MAINTENANCE SIMPLE CHANGES TRANSACTIONS, SYSTEM MANUAL PROGRAM NUMBERS 5736-N11 AND 360A-IL-09X
GH20-0657	ADVANCED LIFE INFORMATION SYSTEM (DOS) FILE MAINTENANCE 36XX FINANCIAL TRANSACTIONS - PAYMENTS, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0658	ADVANCED LIFE INFORMATION SYSTEM (DOS) FILE MAINTENANCE FINANCIAL TRANSACTIONS ACCOUNTING ENTRIES, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0659	ADVANCED LIFE INFORMATION SYSTEM (DOS) FILE MAINTENANCE STATUS TRANSACTIONS - PROCESS AND QUOTE TERMINATIONS, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)

ORDER NUMBER	TITLE
GH20-0660	ADVANCED LIFE INFORMATION SYSTEM (DOS) FILE MAINTENANCE STATUS TRANSACTIONS - PROCESS AND QUOTE MISCELLANEOUS, LOAN VALUES, AND PARTICIPATION VALUES, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0661	ADVANCED LIFE INFORMATION SYSTEM (DOS) FILE MAINTENANCE BILLING TRANSACTIONS SYSTEM MANUAL (PROGRAM NUMBER: VERSION 1-360A-IL-09X VERSION 2 - 5736-N11)
GH20-0662	ADVANCED LIFE INFORMATION SYSTEM (DOS) FILE MAINTENANCE PREMIUM DUE, OVERDUE, AND ANNIVERSARY PROCESSING TRANSACTIONS, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0663	ADVANCED LIFE INFORMATION SYSTEM (DOS) FILE MAINTENANCE RATE FILE EXTRACT AND ANNIVERSARY EXTRACT UPDATE TRANSACTIONS, SYSTEM MANUAL PROGRAM NUMBERS 360A-IL-09X AND 5736-N11
GH20-0664	ADVANCED LIFE INFORMATION SYSTEM (DOS) FILE MAINTENANCE CONTRACTUAL CHANGES AND NOTIFICATIONS, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0665	ADVANCED LIFE INFORMATION SYSTEM (DOS) OUTPUT ANALYSIS, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0666	ADVANCED LIFE INFORMATION SYSTEM (DOS) TRANSACTION REGISTER, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0667	ADVANCED LIFE INFORMATION SYSTEM STATUS PRINT, SYSTEM MANUAL (PROGRAM NUMBER: VERSION 1-360A-IL-09X VERSION 2 - 5736-N11)
GH20-0668	ADVANCED LIFE INFORMATION SYSTEM (DOS) POLICY ACCOUNTING JOURNAL, SYSTEM MANUAL PROGRAM NUMBERS 360A-IL-09X AND 5736-N11
GH20-0669	ADVANCED LIFE INFORMATION SYSTEM (DOS) ACCOUNTING CONTROL, SYSTEM MANUAL PROGRAM NUMBERS 360A-IL-09X AND 5736-N11
GH20-0670	ADVANCED LIFE INFORMATION SYSTEM (DOS) ERROR REGISTER, SYSTEM MANUAL PROGRAM NUMBERS 360A-IL-09X AND 5736-N11
GH20-0671	ADVANCED LIFE INFORMATION SYSTEM (DOS) RATE FILE, SYSTEM MANUAL PROGRAM NUMBERS 360A-IL-09X AND 5736-N11
GH20-0672	ADVANCED LIFE INFORMATION SYSTEM (DOS) HOME OFFICE INQUIRY PROGRAM SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0283	PROPERTY AND LIABILITY INFORMATION SYSTEMS (PALIS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS 360A-IP-10X, -11X, -13X, AND 5736-N21, -22
GH20-0501	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) PROGRAM DESCRIPTION MANUAL PROGRAM NUMBERS 360A-IP-10X, 360A-IP-11X, 360A-IP-13X, 5736-N21
GH20-0498	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) BASIC PROGRAM (360A-IP-10X) OPERATIONS MANUAL
GH20-0497	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) BASIC PROGRAM (360A-IP-10X) PROGRAM DESCRIPTION AND SYSTEM MANUAL
GH20-0283	PROPERTY AND LIABILITY INFORMATION SYSTEMS (PALIS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS 360A-IP-10X, -11X, -13X, AND 5736-N21, -22
GH20-0501	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) PROGRAM DESCRIPTION MANUAL PROGRAM NUMBERS 360A-IP-10X, 360A-IP-11X, 360A-IP-13X, 5736-N21
GH20-0499	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) AUTOMOBILE PREMIUM PROCESSING PROGRAM DESCRIPTION AND SYSTEM MANUAL PROGRAM NUMBERS: 360A-IP-11X, 5736-N21
GH20-0500	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) AUTOMOBILE CLAIMS PROCESSING (360A-IP-11X) PROGRAM DESCRIPTION AND SYSTEM MANUAL
GH20-0283	PROPERTY AND LIABILITY INFORMATION SYSTEMS (PALIS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS 360A-IP-10X, -11X, -13X, AND 5736-N21, -22
GH20-0501	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) PROGRAM DESCRIPTION MANUAL PROGRAM NUMBERS 360A-IP-10X, 360A-IP-11X, 360A-IP-13X, 5736-N21
GH20-0503	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) OTHER LINES PREMIUM PROCESSING (360A-IP-13X) PROGRAM DESCRIPTION AND SYSTEM PROCESSING
GH20-0504	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) OTHER LINES CLAIMS PROCESSING (360A-IP-13X) PROGRAM DESCRIPTION AND SYSTEM MANUAL

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GH20-0462	S/360 AUTOSPOT (360A-CN-09X) AND AD-APT/AUTOSPOT (360A-CN-09X) NUMERICAL CONTROL PROCESSOR VERSION 2 APPLICATION DESCRIPTION
GH20-0373	S/360 AUTOSPOT (360A-CN-08X) AND AD-APT/AUTOSPOT (360A-CN-09X) NUMERICAL CONTROL PROCESSORS-VERSION 2 PART PROGRAMMING MANUAL
GH20-0374	S/360 AUTOSPOT (360A-CN-08X) AND AD-APT/AUTOSPOT (360A-CN-09X) NUMERICAL CONTROL PROCESSORS-VERSION 2 OPERATOR'S MANUAL
GY20-0119	AUTOSPOT S/360 SYSTEMS MANUAL PROGRAM NUMBER 360A-CN-08X
GH20-0463	SYSTEM/360 AD-APT/AUTOSPOT NUMERICAL CONTROL PROCESSOR (360A-CN-09X) APPLICATION DESCRIPTION
GH20-0374	S/360 AUTOSPOT (360A-CN-08X) AND AD-APT/AUTOSPOT (360A-CN-09X) NUMERICAL CONTROL PROCESSORS-VERSION 2 OPERATOR'S MANUAL
GH20-0375	SYSTEM/360 AD-APT/AUTOSPOT NUMERICAL CONTROL PROCESSOR (360A-CN-09X) VERSION 2 PART PROGRAMMING MANUAL

ORDER NUMBER	TITLE
GY20-0118	AD-APT S/360 SYSTEMS MANUAL PROGRAM NUMBER 360A-CN-09X
GH20-0181	SYSTEM/360 APT NUMERICAL CONTROL PROCESSOR VERSIONS 3 AND 4 (360-CN-10X) APPLICATION DESCRIPTION
GH20-0331	SYSTEM/360 APT NUMERICAL CONTROL PROCESSOR (360A-CN-10X) VERSION 4 OPERATIONS MANUAL
GH20-0309	SYSTEM/360 APT NUMERICAL CONTROL PROCESSOR VERSION 4 PART PROGRAMMING MANUAL PROGRAM NUMBER 360A-CN-10X
GY20-0227	SYSTEM/360 APT NUMERICAL CONTROL PROCESSOR VERSION 3 SYSTEM MANUAL - FLOWCHARTS PROGRAM NUMBER 360A-CN-10X
GY20-0080	APT S/360 SYSTEMS MANUAL, PROGRAM NUMBER 360A-CN-10X
GY20-0357	SYSTEM/360 APT NUMERICAL CONTROL PROCESSOR VERSION 4 ASSEMBLY LISTINGS: SYSTEM MANUAL PROGRAM NUMBER 360A-CN-10X
GH20-0523	SYSTEM/360 AD-APT/AUTOSPOT (OS) NUMERICAL CONTROL PROCESSOR APPLICATION DESCRIPTION PROGRAM NUMBER 360A-CN-12X
GH20-0557	SYSTEM/360 AD-APT/AUTOSPOT (OS) NUMERICAL CONTROL PROCESSOR (360A-CN-12X) OPERATIONS MANUAL
GH20-0549	SYSTEM/360 AD-APT/AUTOSPOT (OS) NUMERICAL CONTROL PROCESSOR (360A-CN-12X) PART PROGRAMMING MANUAL
GYB0-0348	SYSTEM/360 AD-APT/AUTOSPOT (OS) NUMERICAL CONTROL PROCESSOR: LISTINGS APPLICATION - PROGRAM NUMBER 360A-CN-12X
GY20-0267	SYSTEM/360 AD-APT/AUTOSPOT (OS) NUMERICAL CONTROL PROCESSOR (360A-CN-12X) SYSTEM MANUAL
GH20-0197	S/360 BILL OF MATERIAL PROCESSOR (360A-ME-06X) APPLICATION DESCRIPTION
GH20-0254	S/360 BILL OF MATERIAL PROCESSOR (360A-ME-06X) VERSION 2 OPERATOR'S MANUAL
GH20-0246	S/360 BILL OF MATERIAL PROCESSOR (360-ME-06X) VERSION 2 PROGRAMMER'S MANUAL
GY20-0099	SYSTEM/360 BILL OF MATERIAL PROCESSOR VERSION 2 SYSTEM MANUAL PROGRAM NUMBER 360A-ME-06X
GH20-0471	SYSTEM/360 INVENTORY CONTROL APPLICATION DESCRIPTION
GH20-0555	SYSTEM/360 INVENTORY CONTROL (360A-MF-04X) PROGRAM DESCRIPTION MANUAL
GH20-0556	SYSTEM/360 INVENTORY CONTROL (360A-MF-04X) OPERATIONS MANUAL
GY20-0256	SYSTEM/360 INVENTORY CONTROL SYSTEM MANUAL PROGRAM NUMBER 360A-MF-04X
GH20-0329	SYSTEM/360 PRODUCT STRUCTURE RETRIEVAL PROGRAM APPLICATION DESCRIPTION PROGRAM NUMBERS 360A-ME-07X
GH20-0369	SYSTEM/360 PRODUCT STRUCTURE RETRIEVAL PROGRAM (360A-ME-07X) PROGRAMMER'S MANUAL
GH20-0370	SYSTEM/360 PRODUCT STRUCTURE RETRIEVAL PROGRAM (360A-ME-07X) OPERATOR'S MANUAL
GY20-0112	IBM SYSTEM/360 PRODUCT STRUCTURE RETRIEVAL SYSTEMS MANUAL PROGRAM NUMBER 360A-ME-07X
GH20-0487	SYSTEM/360 REQUIREMENTS PLANNING APPLICATION DESCRIPTION PROGRAM NUMBER 360A-MF-05X
GH20-0583	SYSTEM/360 REQUIREMENTS PLANNING (360A-MF-05X) OPERATIONS MANUAL
GH20-0584	SYSTEM/360 REQUIREMENTS PLANNING (360A-MF-05X) PROGRAM DESCRIPTION MANUAL
GY20-0317	SYSTEM/360 REQUIREMENTS PLANNING SYSTEM MANUAL PROGRAM NUMBER 360A-MF-05X

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GE20-0324	SYSTEM/360 TEXT PROCESSOR -- EDIT/360, APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-K11
GE20-0257	SYSTEM/360 TEXT PROCESSOR - HYPHENATION/360 APPLICATION DESCRIPTION, PROGRAM NUMBER 360A-DP-07X
GH20-0525	SYSTEM/360 TEXT PROCESSOR - HYPHENATION/360 (360A-DP-07X), PROGRAM DESCRIPTION MANUAL
GH20-0526	SYSTEM/360 TEXT PROCESSOR - HYPHENATION/360 (360A-DP-07X), OPERATIONS MANUAL
GY20-0208	SYSTEM/360 TEXT PROCESSOR - HYPHENATION/360 SYSTEM MANUAL PROGRAM NUMBER 360A-DP-07X
GE20-0256	SYSTEM/360 TEXT PROCESSOR -- COMPOSITION/360, APPLICATION DESCRIPTION PROGRAM NUMBER 360A-DP-08X
GH20-0579	SYSTEM/360 TEXT PROCESSOR - COMPOSITION/360 (360A-DP-08X), OPERATIONS MANUAL
GH20-0585	SYSTEM/360 TEXT PROCESSOR - COMPOSITION/360 (360A-DP-08X), PROGRAM DESCRIPTION MANUAL
GY20-0318	SYSTEM/360 TEXT PROCESSOR - COMPOSITION/360 VOLUME I - FLOWCHART NARRATIVES SYSTEM MANUAL PROGRAM NUMBER 360A-DP-08X
GY20-0319	SYSTEM/360 TEXT PROCESSOR -- COMPOSITION/360 VOLUME II -- FLOWCHARTS SYSTEM MANUAL PROGRAM NUMBER 360A-DP-08X

### 74 Medical (see Medical Industry Bibliography.)

GH20-0576	1130 PROJECT CONTROL SYSTEM VERSION 2 (1130-CP-05X) APPLICATION DESCRIPTION MANUAL
GH20-0697	MEDICAL INFORMATION SYSTEM PROGRAMS (MISP) PROGRAMMER'S MANUAL - PROGRAM NUMBER 360A-UH-08L
GY20-0153	MEDICAL INFORMATION SYSTEM PROGRAMS (MISP) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 360A-UH-08L
GY20-0157	MEDICAL INFORMATION SYSTEM PROGRAMS (MISP) OPERATIONS MANUAL PROGRAM NUMBER 360A-UH-08L
GY20-0154	MEDICAL INFORMATION SYSTEM PROGRAMS (MISP) PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 360A-UH-08L
GH20-0302	SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS) APPLICATION PROGRAM MANUAL - PROGRAM NUMBER 360A-UH-11X
GH20-0533	SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS) (360A-UH-11X) PROGRAM DESCRIPTION MANUAL
GH20-0534	SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS) (360A-UH-11X) APPLICATION PROGRAM MANUAL
GH20-0550	SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS) (360A-UH-11X) TELEPROCESSING OPERATIONS MANUAL
GY20-0251	SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS) TELEPROCESSING SYSTEM MANUAL PROGRAM NUMBER 360A-UH-11X

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GY20-0215	SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS) SYSTEM MANUAL PROGRAM NUMBER 360A-UH-11X
<u>76 Public Utilities</u>	
GH20-0165	COMMUNICATION CONTROL APPLICATION PROGRAM (360A-SC-01X) APPLICATION DESCRIPTION
GH20-0244	COMMUNICATIONS CONTROL APPLICATION PROGRAM (360A-SC-01X) PROGRAMMER'S MANUAL
GH20-0245	COMMUNICATIONS CONTROL APPLICATION PROGRAM (360A-SC-01X)
GH20-0844	MANAGEMENT INFORMATION SYSTEM FOR PUBLIC UTILITIES WITH THE IBM SYSTEM/370
GB20-0022	PUBLIC UTILITY CUSTOMER ACCOUNTING WITH THE IBM SYSTEM/360 ONLINE COMMUNICATION SYSTEM
<u>78 Transportation</u>	
GH20-0464	IBM SYSTEM/360 VEHICLE SCHEDULING PROGRAM (360A-ST-06X) APPLICATION DESCRIPTION
GH20-0506	SYSTEM/360 VEHICLE SCHEDULING PROGRAM (360A-ST-06X) PROGRAM DESCRIPTION AND OPERATIONS MANUAL
GYB0-0492	SYSTEM/360 VEHICLE SCHEDULING PROGRAM (360A-ST-06X) LISTINGS - SYSTEM MANUAL
GY20-0168	SYSTEM/360 VEHICLE SCHEDULING PROGRAM SCHEDULING PRODUCTION AND DISTANCE LISTING SYSTEM MANUAL PROGRAM NUMBER 360A-ST-06X
<u>79 Cross-Industry (see also 81-83 for selections)</u>	
GH20-0510	SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM DOS (ATS/DOS) (360A-CX-18X) APPLICATION DESCRIPTION
GH20-0508	SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM DOS (ATS/DOS) (360A-CX-18X) PROGRAM DESCRIPTION MANUAL
GH20-0509	SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM DOS (ATS/DOS) (360A-CX-18X) TERMINAL OPERATOR'S MANUAL
GH20-0511	SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM DOS (ATS/DOS) (360A-CX-18X) COMPUTER CENTER OPERATOR'S MANUAL
GY20-0174	SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM DOS (ATS/DOS) SYSTEM MANUAL PROGRAM NUMBER 360A-CX-18X
G320-0956	ATS/360 TERMINAL OPERATOR'S QUICK REFERENCE GUIDE PROGRAM NUMBERS 360A-CX-18X, 360A-CX-19X
G320-0958	ATS/360 - DOS COMPUTER OPERATOR'S QUICK REFERENCE GUIDE PROGRAM NUMBER 360A-CX-18X
GH20-0297	SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM-OS (ATS/OS) (360A-CX-19X) APPLICATION DESCRIPTION MANUAL
GH20-0589	SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM-OS (ATS/OS) (360A-CX-19X) TERMINAL OPERATIONS MANUAL
GH20-0590	SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM - OS (ATS/OS) PROGRAM NUMBER 360A-CX-19X
GH20-0582	SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM-OS (ATS/OS) (360A-CX-19X) PROGRAM DESCRIPTION MANUAL
G320-1002	ATS/360 - OS COMPUTER OPERATOR'S QUICK REFERENCE GUIDE PROGRAM NUMBER 360A-CX-19X
GH20-0352	1400 AUTOCODER TO COBOL CONVERSION AID PROGRAM - APPLICATION DESCRIPTION (360A-SE-19X)
GY20-0105	1400 AUTOCODER TO COBOL CONVERSION AID PROGRAM PROGRAMMER'S MANUAL PROGRAM NUMBER 360A-SE-19X
GY20-0106	1400 AUTOCODER TO COBOL CONVERSION AID PROGRAM OPERATOR'S MANUAL PROGRAM NUMBER 360A-SE-19X
GY20-0124	1400 AUTOCODER TO COBOL CONVERSION AID PROGRAM SYSTEM MANUAL PROGRAM NUMBER 360A-SE-19X
GH20-0315	IBM SYSTEM/360 DOCUMENT PROCESSING SYSTEM (360A-CX-12X) APPLICATION DESCRIPTION
GH20-0477	IBM SYSTEM/360 DOCUMENT PROCESSING SYSTEM (360A-CX-12X) PROGRAM DESCRIPTION AND OPERATIONS MANUAL
GY20-0143	IBM SYSTEM/360 DOCUMENT PROCESSING SYSTEM SYSTEM MANUAL PROGRAM NUMBER 360A-CX-12X
GH20-0199	FLOWCHART - APPLICATION DESCRIPTION PROGRAM NUMBERS 360A-SE-22X
GH20-0294	SYSTEM/360 FLOWCHART OPERATOR'S MANUAL PROGRAM NUMBER 360A-SE-22X
GY20-0062	SYSTEM/360 FLOWCHART SYSTEM MANUAL PROGRAM NUMBER 360A-SE-22X
GH20-0293	SYSTEM/360 FLOWCHART USER'S MANUAL (360A-SE-22X)
<u>81 Cross-Industry - Management, Planning, Project Control</u>	
GH20-0222	SYSTEM/360 PROJECT CONTROL SYSTEM (360A-CP-06X) VERSION 2 APPLICATION DESCRIPTION
GH20-0376	PROJECT CONTROL SYSTEM/360 (360A-CP-06X) VERSION 2 PROGRAM DESCRIPTION AND OPERATIONS MANUAL
GYB0-0304	PROJECT CONTROL SYSTEM/360 VERSION 2 MICROFICHE-LISTINGS PROGRAM NUMBER: 360A-CP-06X
GY20-0126	PROJECT CONTROL SYSTEM/360 VERSION 2 SYSTEM MANUAL PROGRAM NUMBER 360A-CP-06X
GH20-0210	PROJECT MANAGEMENT SYSTEM (360A-CP-04X) VERSION 2 FOR IBM SYSTEM/360 - APPLICATION DESCRIPTION
GH20-0344	PROJECT MANAGEMENT SYSTEM/360 (360A-CP-04X) VERSION 2 PROGRAM DESCRIPTION AND OPERATIONS MANUAL
GY20-0083	PROJECT MANAGEMENT SYSTEM/360 VERSION 2 NETWORK PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 360A-CP-04X
GY20-0084	PROJECT MANAGEMENT SYSTEM/360 VERSION 2 COST PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 360A-CP-04X
GY20-0085	PROJECT MANAGEMENT SYSTEM VERSION 2, REPORT PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 360A-CP-04X
GY20-0204	PROJECT MANAGEMENT SYSTEM/360 FLOWCHART SYSTEM MANUAL PROGRAM NUMBER 360A-CP-04X

ORDER NUMBER	TITLE
<b>82 Cross-Industry - Mathematics and Science</b>	
GE20-0350	A PREFACE TO LINEAR PROGRAMMING AND ITS APPLICATIONS
GH20-0513	LINEAR PROGRAMMING SYSTEM/360 (LPS/360) (360A-CO-18X) APPLICATION DESCRIPTION
GH20-0607	LINEAR PROGRAMMING SYSTEM/360 (LPS/360) (360A-CO-18X) PROGRAM DESCRIPTION MANUAL
GH20-0611	LINEAR PROGRAMMING SYSTEM/360 (LPS/360) (360A-CO-18X) OPERATIONS MANUAL
GYB0-0414	LINEAR PROGRAMMING SYSTEM/360 (LPS/360) COMPILATION/ASSEMBLY LISTINGS MANUAL MICROFICHE - PROGRAM NUMBER 360A-CO-18X
GY20-0405	LINEAR PROGRAMMING SYSTEM/360 (LPS/360) SYSTEM MANUAL PROGRAM NUMBER 360A-CO-18X
GH20-0496	MARVEL/360 (360A-CO-15X) PRIMER
GH20-0505	MARVEL/360 (360A-CO-15X) PROGRAM DESCRIPTION MANUAL
GH20-0512	MARVEL/360 (360A-CO-15X) OPERATIONS MANUAL
GY20-0205	MARVEL/360 SYSTEM MANUAL PROGRAM NUMBER 360A-CO-15X
GH20-0136	MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X) APPLICATION DESCRIPTION
GH20-0290	MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X) VERSION 2 CONTROL LANGUAGE USER'S MANUAL
GH20-0372	MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X) VERSION 2 READ COMMUNICATIONS FORMAT (READCOMM) PROGRAM REFERENCE MANUAL
GH20-0476	MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X) LINEAR AND SEPARABLE PROGRAMMING - USER'S MANUAL
GH20-0602	MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X) OPERATIONS MANUAL
GH20-0603	MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X) MESSAGE MANUAL
GY20-0065	MATHEMATICAL PROGRAMMING SYSTEM/360 VERSION 2 SYSTEM MANUAL PROGRAM NUMBER 360A-CO-14X
GY20-0353	MATHEMATICAL PROGRAMMING SYSTEM/360 VERSION 2 FLOWCHART SYSTEM MANUAL PROGRAM NUMBER 360A-CO-14X
GH20-0136	MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X) APPLICATION DESCRIPTION
GH20-0560	MATHEMATICAL PROGRAMMING SYSTEM/360 REPORT GENERATOR (MPSRG) (360A-CO-20X) PROGRAM DESCRIPTION MANUAL
GH20-0561	MATHEMATICAL PROGRAMMING SYSTEM/360 REPORT GENERATOR (MPSRG) (360A-CO-20X) OPERATIONS MANUAL
GY20-0294	MATHEMATICAL PROGRAMMING SYSTEM/360 REPORT GENERATOR (MPSRG) SYSTEM MANUAL PROGRAM NUMBER 360A-CO-20X
GH20-0479	SYSTEM/360 MATRIX LANGUAGE (MATLAN) (360A-CM-05X) APPLICATION DESCRIPTION
GH20-0559	SYSTEM/360 MATRIX LANGUAGE (MATLAN) (360A-CM-05X) OPERATIONS MANUAL
GH20-0564	SYSTEM/360 MATRIX LANGUAGE (MATLAN) (360A-CM-05X) PROGRAM DESCRIPTION MANUAL
GYB0-0347	SYSTEM/360 MATRIX LANGUAGE (MATLAN) LISTINGS, PROGRAM NUMBER 360A-CM-05X
GY20-0261	SYSTEM/360 MATRIX LANGUAGE (MATLAN) SYSTEM MANUAL PROGRAM NUMBER 360A-CM-05X
GH20-0166	SYSTEM/360 SCIENTIFIC SUBROUTINE PACKAGE (360A-CM-03X) VERSION III APPLICATION DESCRIPTION
GH20-0205	SYSTEM/360 SCIENTIFIC SUBROUTINE PACKAGE (360A-CM-03X) VERSION III PROGRAMMER'S MANUAL
GY20-0092	SYSTEM/360 SCIENTIFIC SUBROUTINE PACKAGE VERSION 3 SYSTEM MANUAL PROGRAM NUMBER 360A-CM-038
GH20-0544	SYSTEM/360 SCIENTIFIC SUBROUTINE PACKAGE (PL/I) (360A-CM-07X) APPLICATION DESCRIPTION MANUAL
GH20-0586	SYSTEM/360 SCIENTIFIC SUBROUTINE PACKAGE (PL/I) (360A-CM-07X) PROGRAM DESCRIPTION AND OPERATIONS MANUAL

**83 Cross-Industry - Simulation**

GH20-0240	SYSTEM/360 CONTINUOUS SYSTEM MODELING PROGRAM (360A-CX-16X) APPLICATION DESCRIPTION
GH20-0367	SYSTEM/360 CONTINUOUS SYSTEM MODELING PROGRAM (360A-CX-16X) USER'S MANUAL
GH20-0368	SYSTEM/360 CONTINUOUS SYSTEM MODELING PROGRAM (360A-CX-16X) OPERATIONS MANUAL
GY20-0111	SYSTEM/360 CONTINUOUS SYSTEM MODELING PROGRAM SYSTEM MANUAL PROGRAM NUMBER 360A-CX-16X
GH20-0186	GENERAL PURPOSE SIMULATION SYSTEM/360 - APPLICATION DESCRIPTION PROGRAM NUMBERS 360A-CS-17X, 360A-CS-19X
GH20-0304	GENERAL PURPOSE SIMULATION SYSTEM/360 INTRODUCTORY USER'S MANUAL
GH20-0311	GENERAL PURPOSE SIMULATION (360A-CS-17X) SYSTEM/360-OS - OPERATOR'S MANUAL
GH20-0326	GENERAL PURPOSE SIMULATION SYSTEM/360 USER'S MANUAL
GH20-0327	GENERAL PURPOSE SIMULATION SYSTEM/360, DISK OPERATING SYSTEM (360A-CS-19X) OPERATOR'S MANUAL
GY20-0075	GENERAL PURPOSE SIMULATION SYSTEM/360 SYSTEM MANUAL PROGRAM NUMBERS 360A-CS-17X, 360A-CS-19X

**TYPE III PROGRAMS (20-40)**

NOTE: Publications on TYPE III Programs are available under SLSS by order number subscription only.

**31 Support Programs**

GH20-0757	CONVERSATIONAL PROGRAMMING SYSTEM (CPS) SYSTEM PROGRAMMER'S GUIDE
GH20-0758	CONVERSATIONAL PROGRAMMING SYSTEM (CPS) TERMINAL USER'S MANUAL - PROGRAM NUMBER 360D-03.4-016
GH20-0759	CONVERSATIONAL PROGRAMMING SYSTEM (CPS) INSTALLATION AND ADMINISTRATION MANUAL
GH20-1163	(CPS) CONVERSATIONAL PROGRAMMING SYSTEM BASIC TERMINAL USER'S MANUAL - PROGRAM NUMBER 360D-03.4-016
GYB0-0517	CONVERSATIONAL PROGRAMMING SYSTEM (CPS) VERSION 5 LISTINGS PROGRAM NUMBER 360D-03.4.016
GY20-0504	IBM SYSTEM/360 CONVERSATIONAL PROGRAMMING SYSTEM (CPS): PROGRAM LOGIC MANUAL PROGRAM NUMBER 360D-03.4.016

ORDER NUMBER	TITLE
GH20-0719	360 DOS POWER II APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 360D-05.2.006
GH20-0737	IBM SYSTEM/360 DOS POWER II PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER 360D-05.2.006
GH20-0743	IBM SYSTEM/360 DOS POWER II REMOTE JOB ENTRY PROGRAM APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 360D-05.2.006
GX20-1817	SYSTEM/360 POWER II REFERENCE CARD
GYB0-0507	IBM SYSTEM/360 DOS POWER II: LISTINGS - MICROFICHE PROGRAM NUMBER 360D-05.2.006
GY20-0575	IBM SYSTEM/360 DOS POWER II, SYSTEM MANUAL PROGRAM NUMBER 360D-05.2.006
<u>32 Utilities</u>	
GYB0-0515	2495 UTILITY FOR OS/360 - LISTINGS PROGRAM NUMBER 360D-00.0.020
<u>35 Simulation or Emulation</u>	
GYB0-0598	COMPATIBILITY OPERATING SYSTEM FOR EMULATION OF IBM 1410/7010 DATA PROCESSING SYSTEMS OPERATING ON IBM SYSTEM/360 MODEL 50 (COS/50) (360D-11.1.025) LISTINGS
GY20-0597	COMPATIBILITY OPERATING SYSTEM FOR EMULATION OF IBM 1410/7010 DATA PROCESSING SYSTEMS OPERATING ON IBM SYSTEM/360 MODEL 50 (COS/50) (360D-11.1.025) PROGRAM LOGIC MANUAL
<u>36 Control Program</u>	
GH20-0802	CONTROL PROGRAM-67 / CAMBRIDGE MONITOR SYSTEM (CP-67/CMS) SYSTEM DESCRIPTION MANUAL - PROGRAM NUMBER 360D-05.2.005
GH20-0856	CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM (CP-67/CMS) VERSION 3 OPERATOR'S GUIDE
GH20-0857	CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM (CP-67/CMS) VERSION 3 INSTALLATION GUIDE
GH20-0858	CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM (CP-67/CMS) HARDWARE MAINTAINABILITY GUIDE PROGRAM NUMBER 360D-05.2.005
GH20-0859	CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM (CP-67/CMS) VERSION 3 USER'S GUIDE
GH20-0860	CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM (CP-67/CMS) VERSION 3 CMS SCRIPT USER'S MANUAL
GH20-1029	CONTROL PROGRAM-67/CAMBRIDGE MONITOR SYSTEM (CP-67/CMS) VERSION 3 - PROGRAM MANUAL - PROGRAM NUMBER 360D-05.2.005
GYB0-0592	CP-67 VERSION 3 LISTINGS PROGRAM NUMBER 360D-05.2.005
GYB0-0593	CP-67 VERSION 3 LISTINGS PROGRAM NUMBER 360D-05.2.005
GYB0-0789	CONTROL PROGRAM-67/CAMBRIDGE MONITOR SYSTEM (CP-67/CMS) VERSION 3.1 (COMPONENT RELEASE 1) 3420 MAGNETIC TAPE UNITS AND DUAL DENSITY SUPPORT - LISTINGS (MICROFICHE) PROGRAM NUMBER 360D-05.2.005
GY20-0590	CP-67 VERSION 3 PROGRAM LOGIC MANUAL PROGRAM NUMBER 360D-05.2.005
GY20-0591	CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM (CP-67/CMS) - PROGRAM NUMBER 360D-05.2.005 PROGRAM LOGIC MANUAL
G320-1973	CP-67/CMS OPERATOR'S REFERENCE GUIDE PROGRAM NUMBER 360D-05.2.005
<u>38 Remote Job Entry</u>	
GYB0-0516	CONVERSATIONAL REMOTE BATCH ENTRY (CRBE) VERSION 2: MOD 8 LISTINGS PROGRAM NUMBER 360D-05.1.016
GH20-0761	DISK OPERATING SYSTEM/360 POWER II REMOTE JOB ENTRY PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER 360D-05.2.006
GYB0-0527	SYSTEM/360 DOS POWER II, VERSION 2, WITH REMOTE JOB ENTRY (RJE) - LISTINGS PROGRAM NUMBER 360D-05.2.006
**GY20-0576	IBM SYSTEM/360 DOS POWER II, REMOTE JOB ENTRY, SYSTEM MANUAL PROGRAM NUMBER 360D-05.2.006
<u>OTHER SUPPLEMENTARY INFORMATION (85-99)</u>	
<u>85 Data Processing-Introductory Manuals and Texts.</u>	
**GC20-1667	INTRODUCTION TO IBM SYSTEM/360 ARCHITECTURE
SC20-1646	A PROGRAMMER'S INTRODUCTION TO IBM SYSTEM/360 ASSEMBLER LANGUAGE
GC20-1706	COURSEWRITER III
GC20-1744	COURSEWRITER III, VERSION 3 STUDENT TEXT PROGRAM NUMBERS 5734-E13, 5736-E11
GC20-1684	AN INTRODUCTION TO IBM DATA PROCESSING SYSTEMS
GC20-1699	A DATA PROCESSING GLOSSARY
GF20-6088	PLANNING FOR AN IBM DATA PROCESSING SYSTEM
GC20-1649	INTRODUCTION TO IBM SYSTEM/360 DIRECT ACCESS STORAGE DEVICES AND ORGANIZATION METHODS
GC20-8152	FLOWCHARTING TECHNIQUES
GC20-8078	FORM AND CARD DESIGN
SC20-1637	A GUIDE TO PL/I FOR FORTRAN USERS
G320-1621	IBM MARKETING PUBLICATIONS KWIC INDEX
GC20-1618	NUMBER SYSTEMS
GC20-8011	RANDOM NUMBER GENERATION AND TESTING
SC20-8092	SYSTEM/360 DOS OPERATION TRAINING MANUAL COURSE CODE A3650
SC20-6908	A PL/I PRIMER
SC20-1637	A GUIDE TO PL/I FOR FORTRAN USERS
SC20-1651	A GUIDE TO PL/I FOR COMMERCIAL PROGRAMMERS COURSE CODE B3668
SC20-1689	AN INTRODUCTION TO THE COMPILE-TIME FACILITIES OF PL/I
GE20-0312	PREFACE TO PL/I PROGRAMMING IN SCIENTIFIC COMPUTING

ORDER NUMBER	TITLE
<b>87 Education - Course Catalogs</b>	
G520-2327	IBM EDUCATION - A COURSE OF ACTION SYSTEMS SCIENCE EDUCATION
G520-2329	OS COURSE SELECTION GUIDE EDUCATION MARKETING
G520-2330	DOS/TOS COURSE SELECTION GUIDE EDUCATION MARKETING
G520-2336	INDUSTRY APPLICATIONS COURSE SELECTION GUIDE EDUCATION MARKETING
**G520-2467	IBM EDUCATION - A COURSE OF ACTION-DP EDUCATION FOR MANAGERS - COURSE SELECTION GUIDE
<b>89 Installation Forms and Supplies</b>	
GX28-6509	IBM SYSTEM/360 ASSEMBLER CODING FORM
GX28-6506	IBM SYSTEM/360 BASIC ASSEMBLER SHORT CODING FORM PROGRAM NUMBER 360P-AS-021
GX28-6507	IBM SYSTEM/360 BASIC ASSEMBLER LONG CODING FORM
GX24-5046	IBM SYSTEM/360 ASSEMBLER CODING FORM, BPS/BOS/TOS/DOS DTFSR ENTRIES, CARD READ-PUNCH PROGRAM NUMBERS 360B-AS-309, 360M-AS-465, 360N-465, 360N-AS-466, 360P-AS-021, 360P-AS-091
GX24-5047	IBM SYSTEM/360 ASSEMBLER CODING FORM, BPS/BOS/TOS/DOS DTFSR ENTRIES, PRINTER AND PRINTER-KEYBOARD
GX24-5048	IBM SYSTEM/360 ASSEMBLER CODING FORM, BOS/DOS DTFSR ENTRIES, DISK PROGRAM NUMBERS 360N-AS-465, 360N-AS-466, 360B-AS-309
GX24-5055	IBM SYSTEM/360 ASSEMBLER CODING FORM, TOS/DOS MTMOD,CDMOD, AND PRMOD ENTRIES PROGRAM NUMBERS 360M-AS-465, 360N-AS-465, 360N-AS-466
GX28-1464	COBOL CODING FORM
GX24-3477	IBM 1400 COMPATIBILITY INITIALIZATION DECK SYSTEM/360 MODEL 30 CODING SHEETS 1 AND 2
GX28-8020	FLOWCHARTING TEMPLATE
GX28-7327	FORTRAN CODING FORM
GX28-1761	MATHEMATICAL PROGRAMMING INPUT FORM SYSTEM/360 - 1130
GX28-1702	PROPORTIONAL RECORD LAYOUT FORM
GX28-1711	IBM SYSTEM/360 RECORD LAYOUT WORKSHEET
GX21-9093	RPG CALCULATION SPECIFICATIONS SHEET
GX21-9092	RPG CONTROL CARD AND FILE DESCRIPTION SPECIFICATION SHEET
GX21-9129	RPG DEBUGGING TEMPLATE
GX21-9091	RPG EXTENSIONS AND LINE COUNTER SPECIFICATIONS SHEET
GX21-9090	RPG OUTPUT SPECIFICATIONS SHEET
GX24-3541	MULTIPLEXER CHANNEL WORKSHEET - SYSTEM/360 MODEL 25 CONFIGURATION A AND B
GX24-3407	IBM SYSTEM/360 MODEL 30 MULTIPLEXER CHANNEL WORKSHEET
GX24-3376	IBM SYSTEM/360 MODEL 30 IBM 1052 KEY-TABS
GX24-3448	IBM 1445 PRINTER SPACING CHART
GX27-2950	2250 DISPLAY LAYOUT SHEET
GX28-1751	IBM 2260 DISPLAY FORMAT
GX24-3406	IBM SYSTEM/360 MODEL 30 IBM 2702 WORKSHEET
GX27-2901	IMAGE PLANNING CHART - 2760 OPTICAL IMAGE UNIT, REGISTRATION PUNCHING ACME
GX27-2902	IMAGE PLANNING CHART - 2760 OPTICAL IMAGE UNIT REGISTRATION PUNCHING OXBERRY

**95 EWS (Early Warning System)**

NOTE: Ews, published weekly on microfiche, contains information useful in program maintenance and diagnosis. Automatic updating is available through SLSS.

S2C0-0051	MICROFICHE - EARLY WARNING 2025 AND LARGER FILE CARD
S2C0-0101	MICROFICHE - EARLY WARNING OPERATING SYSTEM OS FILE CARD
S2C0-0201	MICROFICHE - EARLY WARNING PROGRAMMING SYSTEM OTHER THAN OS FILE
**S2C0-0301	MICROFICHE - EARLY WARNING PRODUCTS CSP-SCP FILE

**97 PTF (Program Temporary Fix Listings)**

NOTE: PTF Listings are available under SLSS. To order, specify the bill-of-forms number corresponding to the program of interest.

**LBOF-2063	82 SORTER OPERATION - PI - COURSE CODE A0082
SBOF-6100	PTF PROGRAM NUMBER 360S-AL-531
SBOF-6103	PTF PROGRAM NUMBER 360S-AS-037
SBOF-6106	PTF PROGRAM NUMBER 360S-CB-524
SBOF-6109	PTF PROGRAM NUMBER 360S-CB-545
SBOF-6110	PTF PROGRAM NUMBER 360S-CI-505
SBOF-6113	PTF PROGRAM NUMBER 360S-CI-535
SBOF-6116	PTF PROGRAM NUMBER 360S-CI-555
SBOF-6119	PTF PROGRAM NUMBER 360S-CO-503
SBOF-6122	PTF PROGRAM NUMBER 360S-CQ-513
SBOF-6125	PTF PROGRAM NUMBER 360S-CQ-519
SBOF-6128	PTF PROGRAM NUMBER 360S-CQ-548
SBOF-6131	PTF PROGRAM NUMBER 360S-DM-508
SBOF-6137	PTF PROGRAM NUMBER 360S-DN-527
SBOF-6140	PTF PROGRAM NUMBER 360S-DN-533
SBOF-6143	PTF PROGRAM NUMBER 360S-DN-539
SBOF-6146	PTF PROGRAM NUMBER 360S-DN-554
SBOF-6149	PTF PROGRAM NUMBER 360S-ED-521
SBOF-6152	PTF PROGRAM NUMBER 360S-FO-500
SBOF-6155	PTF PROGRAM NUMBER 360S-FO-520
SBOF-6158	PTF PROGRAM NUMBER 360S-FO-520
SBOF-6161	PTF PROGRAM NUMBER 360S-IO-523
SBOF-6164	PTF PROGRAM NUMBER 360S-IO-526
SBOF-6167	PTF PROGRAM NUMBER 360S-LD-547
SBOF-6170	PTF PROGRAM NUMBER 360S-LM-501
SBOF-6173	PTF PROGRAM NUMBER 360S-LM-512
SBOF-6176	PTF PROGRAM NUMBER 360S-LM-525
SBOF-6179	PTF PROGRAM NUMBER 360S-LM-532
SBOF-6182	PTF PROGRAM NUMBER 360S-LM-537
SBOF-6185	PTF PROGRAM NUMBER 360S-LM-542
SBOF-6188	PTF PROGRAM NUMBER 360S-LM-546
SBOF-6192	PTF PROGRAM NUMBER 360S-NL-511
SBOF-6195	PTF PROGRAM NUMBER 360S-PL-552
SBOF-6198	PTF PROGRAM NUMBER 360S-PT-516
SBOF-6201	PTF PROGRAM NUMBER 360S-RC-536
SBOF-6204	PTF PROGRAM NUMBER 360S-RC-541

ORDER NUMBER	TITLE
SBOF-6207	PTF PROGRAM NUMBER 360S-RC-543
SBOF-6210	PTF PROGRAM NUMBER 360S-RC-551
SBOF-6213	PTF PROGRAM NUMBER 360S-RG-038
SBOF-6216	PTF PROGRAM NUMBER 360S-SM-023
SBOF-6219	PTF PROGRAM NUMBER 360S-UT-526
SBOF-6222	PTF MODULE GENERATION - OS
SBOF-6225	PTF SERVICE AIDS OS
SBOF-6230	PTF PROGRAM NUMBER 360N-AS-465
SBOF-6232	PTF PROGRAM NUMBER 360N-AS-466
SBOF-6234	PTF PROGRAM NUMBER 360N-CB-452
SBOF-6236	PTF PROGRAM NUMBER 360N-CB-468
SBOF-6238	PTF PROGRAM NUMBER 360N-CB-482
SBOF-6240	PTF PROGRAM NUMBER 360N-CL-453
SBOF-6242	PTF PROGRAM NUMBER 360N-CQ-469
SBOF-6244	PTF PROGRAM NUMBER 360N-CQ-470
SBOF-6248	PTF PROGRAM NUMBER 360N-DN-481
SBOF-6250	PTF PROGRAM NUMBER 360N-EU-484
SBOF-6252	PTF PROGRAM NUMBER 360N-EU-485
SBOF-6254	PTF PROGRAM NUMBER 360N-FO-451
SBOF-6256	PTF PROGRAM NUMBER 360N-FO-479
SBOF-6258	PTF PROGRAM NUMBER 360N-IO-454
SBOF-6260	PTF PROGRAM NUMBER 360N-IO-455
SBOF-6262	PTF PROGRAM NUMBER 360N-IO-456
SBOF-6264	PTF PROGRAM NUMBER 360N-IO-457
SBOF-6266	PTF PROGRAM NUMBER 360N-IO-458
SBOF-6268	PTF PROGRAM NUMBER 360N-IO-476
SBOF-6270	PTF PROGRAM NUMBER 360N-IO-477
SBOF-6272	PTF PROGRAM NUMBER 360N-IO-478
SBOF-6274	PTF PROGRAM NUMBER 360N-PL-464
SBOF-6276	PTF PROGRAM NUMBER 360N-PT-459
SBOF-6278	PTF PROGRAM NUMBER 360N-RG-460
SBOF-6280	PTF PROGRAM NUMBER 360N-SM-480
SBOF-6282	PTF PROGRAM NUMBER 360N-SM-450
SBOF-6284	PTF PROGRAM NUMBER 360N-SM-483
SBOF-6286	PTF PROGRAM NUMBER 360N-SV-473
SBOF-6288	PTF PROGRAM NUMBER 360N-SV-474
SBOF-6290	PTF PROGRAM NUMBER 360N-SV-475
SBOF-6292	PTF PROGRAM NUMBER 360N-SV-486
SBOF-6294	PTF PROGRAM NUMBER 360N-SV-487
SBOF-6296	PTF PROGRAM NUMBER 360N-SV-488
SBOF-6298	PTF PROGRAM NUMBER 360N-UT-461
SBOF-6300	PTF PROGRAM NUMBER 360N-UT-462
SBOF-6302	PTF PROGRAM NUMBER 360N-UT-463
SBOF-6304	PTF PROGRAM NUMBER 360N-UT-471
SBOF-6306	PTF PROGRAM NUMBER 360N-UT-472
SBOF-6308	PTF SERVICE AIDS DOS

99 Program Listings

NOTE: The following program listings are available for TYPE 1 Programs. Automatic updating, if required, is available through SLSS.

**GJD1-0015	3830 4-CHANNEL SWITCH SUPPORT (CALTRAP) ICR - PROGRAM NUMBER 360-OS-587
GJD1-1010	SYSTEM/360 OS PRIMARY CONTROL PROGRAMS MICROFICHE LISTING - PROGRAM NUMBER 360S-CI-566
GJD1-1011	OPERATING SYSTEM/360 TIME SHARING OPTION PROGRAM LISTING (TSO) PROGRAM NUMBER 360S-CI-555
GJD1-1012	SYSTEM/360 OS MVT
GJD1-1013	SYSTEM/360 OS DATA MANAGEMENT MICROFICHE LISTINGS - PROGRAM NUMBER 360S-DN-508
GJD1-1014	SYSTEM/360 OS BASIC DIRECT ACCESS METHOD MICROFICHE LISTING - PROGRAM NUMBER 360S-DN-509
GJD1-1015	SYSTEM/360 OS REMOTE JOB ENTRY MICROFICHE LISTING - PROGRAM NUMBER 360S-RC-536
GJD1-1016	SYSTEM/360 OS BTAM MICROFICHE LISTINGS - PROGRAM NUMBER 360S-CQ-513
GJD1-1017	SYSTEM/360 OS OTAM MICROFICHE LISTING - PROGRAM NUMBER 360S-CQ-519
GJD1-1018	SYSTEM/360 OS OLTEP MICROFICHE LISTINGS - PROGRAM NUMBER 360S-DN-533
GJD1-1019	OPERATING SYSTEM/360 CONVERSATIONAL REMOTE JOB ENTRY MICROFICHE LISTINGS - PROGRAM NUMBER 360S-RC-551
GJD1-1020	PROGRAM LISTING
GJD1-1021	SYSTEM/360 OS ISAM MICROFICHE LISTINGS - PROGRAM NUMBER #()S-IO-526
GJD1-1022	SYSTEM/360 OS UTILITIES MICROFICHE LISTINGS - PROGRAM NUMBER 360S-UT-506
GJD1-1023	OPERATING SYSTEM/360 INDEPENDENT UTILITIES MICROFICHE LISTINGS - PROGRAM NUMBER 360S-UT-507
GJD1-1024	OPERATING SYSTEM/360 TELEPROCESSING COMMUNICATIONS ACCESS METHOD (TCAM) PROGRAM LISTING - PROGRAM NUMBER 360S-CQ-548
GJD1-1025	SYSTEM/360 OS ALGOL COMPILER-F MICROFICHE LISTING - PROGRAM NUMBER 360S-AL-531
GJD1-1026	SYSTEM/360 OS ALGOL LIBRARY MICROFICHE LISTING - PROGRAM NUMBER 360S-LN-532
GJD1-1030	MICROFICHE - SOURCE LISTING
GJD1-1035	SYSTEM/360-OS ASSEMBLER E 360S-AS-036
GJD1-1040	MICROFICHE - SOURCE LISTING
GJD1-1042	SYSTEM/360 OS ASSEMBLER F 360S-AS-037
GJD1-1044	SYSTEM/360 OS COBOL COMPILER-E MICROFICHE LISTING - PROGRAM NUMBER 360S-CO-503
GJD1-1043	SYSTEM/360 OS ANS COBOL MICROFICHE LISTING - PROGRAM NUMBER 360S-CB-545
GJD1-1044	SYSTEM/360 OS ANS COBOL LIBRARY MICROFICHE LISTING - PROGRAM NUMBER 360S-LN-546
GJD1-1045	SYSTEM/360 OS COBOL F LIBRARY MICROFICHE LISTING - PROGRAM NUMBER 360S-LN-525
GJD1-1048	SYSTEM/360 OS COBOL COMPILER-F MICROFICHE LISTINGS - PROGRAM NUMBER 360S-CB-524
GJD1-1048	SYSTEM/360 OS COBOL LIBRARY MICROFICHE LISTING - PROGRAM NUMBER 360S-LN-504
GJD1-1050	MICROFICHE - SOURCE LISTING
GJD1-1052	SYSTEM/360-OS FORTRAN E IV 360S-FO-092
GJD1-1054	SYSTEM/360 OS FORTRAN G IV MICROFICHE LISTING - PROGRAM NUMBER 360S-FO-520
GJD1-1055	OPERATING SYSTEM/360 FORTRAN SYNTAX CHECKER MICROFICHE LISTINGS - PROGRAM NUMBER 360S-FO-550
GJD1-1055	SYSTEM/360 OS FORTRAN H IV MICROFICHE LISTINGS - PROGRAM NUMBER 360S-FO-500

ORDER NUMBER	TITLE
GJD1-1058	SYSTEM/360 OS FORTRAN LIBRARY IV
	MICROFICHE LISTINGS - PROGRAM NUMBER 360S-LM-501
GJD1-1060	SYSTEM/360 OS PL/1 COMPILER F
	MICROFICHE LISTINGS - PROGRAM NUMBER 360S-NL-511
GJD1-1062	SYSTEM/360 OS SERVICE AIDS
	MICROFICHE LISTINGS - PROGRAM NUMBER 360S-DN-554
GJD1-1065	OPERATING SYSTEM/360 PL/I SYNTAX CHECKER
	MICROFICHE LISTINGS - PROGRAM NUMBER 360S-PL-552
GJD1-1068	SYSTEM/360 OS PL/1 LIBRARY F
	MICROFICHE LISTINGS - PROGRAM NUMBER 360S-LM-512
GJD1-1070	MICROFICHE - SOURCE LISTING
	SYSTEM/360-OS LINKAGE EDITOR F 360S-ED-510
GJD1-1072	SYSTEM/360 OS LINKAGE EDITOR LOADER
	MICROFICHE LISTINGS - PROGRAM NUMBER 360S-LD-547
GJD1-1075	SYSTEM/360 OS LINKAGE EDITOR F
	MICROFICHE LISTINGS - PROGRAM NUMBER 360S-ED-521
GJD1-1076	SYSTEM/360 OS SER0, SER1
	MICROFICHE LISTINGS - PROGRAM NUMBER 360S-DN-527
GJD1-1077	SYSTEM/360 OS RECOVERY MANAGEMENT
	MICROFICHE LISTINGS - PROGRAM NUMBER 360S-DN-539
GJD1-1080	SYSTEM/360 OS SORT MERGE
	MICROFICHE LISTINGS - PROGRAM NUMBER 360S-SM-023
GJD1-1085	SYSTEM/360 OS TESTRAM
	MICROFICHE LISTINGS - PROGRAM NUMBER 360S-PT-516
GJD1-1090	SYSTEM/360 OS GRAPHIC PROGRAMMING SERVICES
	MICROFICHE LISTINGS - PROGRAM NUMBER 360S-IO-523
GJD1-1091	SYSTEM/360 OS GRAPHIC SUB-ROUTINE PROGRAM
	MICROFICHE LISTINGS - PROGRAM NUMBER 360S-LM-537
GJD1-1092	SYSTEM/360 OS SATELLITE GRAPHIC JOB PROCESS
	MICROFICHE LISTING - PROGRAM NUMBER 360S-RC-543
GJD1-1093	SYSTEM/360 OS GRAPHIC JOB PROCESS
	MICROFICHE LISTING - PROGRAM NUMBER 360S-RC-541
GJD1-1094	MICROFICHE - SOURCE LISTING
	SYSTEM/360-OS 1130/360 DATA TRANSMISSION 360S-LM-542
GJD1-1095	SYSTEM/360 OS REPORT PROGRAM GENERATOR
	PROGRAM NUMBER 360S-RG-038
GJD1-1096	MICROFICHE FOR OPERATING SYSTEM RELEASE 20.7 PROGRAMS:
	360S-CI-505 360S-CI-535 360S-CI-555 360S-CQ-548
	360S-DH-509 360S-DH-509 360S-DH-527 360S-DN-533
	360S-DH-554 360S-ED-521 360S-IO-526 360S-LD-547
	460S-LM-512 360S-NL-511 360S-UT-506 360S-UT-507
GJD1-1097	SYSTEM/360 OPERATING SYSTEM RELEASE SUPPORT DOCUMENTATION
	(MICROFICHE)
GJD1-1098	SYSTEM/360 OPERATING SYSTEM RELEASE SUPPORT DOCUMENTATION
	(MICROFICHE)
GJD1-1100	MICROFICHE - SOURCE LISTING
	ATTACHED SUPPORT PROCESSOR (ASP) PROGRAM NUMBER 360A-CX-15X
GJD1-1310	MICROFICHE - SOURCE LISTING
	SYSTEM/360 SIMULATOR 1410/7010 360C-SI-754
GJD1-1370	MICROFICHE - SOURCE LISTING
	SYSTEM/360 SIMULATOR 7070/7074 360C-SI-753
GJD1-1380	MICROFICHE - SOURCE LISTING
	SYSTEM/360 SIMULATOR 7080 360C-SI-551
GJD1-1390	MICROFICHE - SOURCE LISTING
	SYSTEM/360 SIMULATOR 7090/7094 360C-SI-750
GJD1-1400	MICROFICHE - SOURCE LISTING
	SYSTEM/360 EMULATOR (MODEL 40) 1401/1410 360C-EU-074
GJD1-1410	MICROFICHE - SOURCE LISTING
	SYSTEM/360 EMULATOR (MODEL 40) 360C-EU-728
GJD1-1420	IBM 7094 EMULATOR FOR THE SYSTEM/360 MODEL 85 UNDER OS/360
	MICROFICHE LISTINGS - PROGRAM NUMBER 360C-EU-734
GJD1-1480	IBM OPERATING SYSTEM/360 DOS EMULATOR PROGRAM FOR
	SYSTEM/370 MODELS 145 AND 155 - PROGRAM NUMBER 360C-EU-738
GJD1-1500	MICROFICHE - SOURCE LISTING
	SYSTEM/360 EMULATOR (MODEL 50) 1410/7010 360C-EU-726
GJD1-1510	MICROFICHE - SOURCE LISTING
	SYSTEM/360 EMULATOR (MODELS 50 AND 65) 7070/7074 360C-EU-725
GJD1-1600	MICROFICHE - SOURCE LISTING
	SYSTEM/360 EMULATOR (MODEL 65) 7040/7044 360C-EU-733
GJD1-1620	MICROFICHE - SOURCE LISTING
	SYSTEM/360 EMULATOR (MODEL 65) 7080 360C-EU-727
GJD1-1630	MICROFICHE - SOURCE LISTING
	SYSTEM/360 EMULATOR (MODEL 65) 7090/7094 360C-EU-729
GJD1-1640	OPERATING SYSTEM 370/165 OS-7094 INTEGRATED EMULATOR
	MICROFICHE LISTINGS - PROGRAM NUMBER 360C-EU-740
GJD1-1641	SYSTEM/360 OPERATING SYSTEM EMULATOR FOR 7074
	ON 370/165 UNDER OPERATING SYSTEM
	PROGRAM LISTING MICROFICHE - PROGRAM NUMBER 360C-EU-739
GJD1-1642	7080 EMULATOR FOR SYSTEM/370 MODEL 165 UNDER OPERATING
	SYSTEM/360 - MICROFICHE LISTING - PROGRAM NUMBER 360C-EU-737
GJD1-1643	EMULATOR FOR 7074 ON S/370 MODEL 155 UNDER OS MICROFICHE -
	PROGRAM NUMBER 360C-EU-741
GJD1-1700	MICROFICHE - SOURCE LISTING
	SYSTEM/360 MODEL 44 BASIC PROGRAMMING SUPPORT (BPS)
	360F-UT-601
GJD1-1720	MICROFICHE - SOURCE LISTING
	SYSTEM/360 MODEL 44 BASIC PROGRAMMING SUPPORT 360F-IO-613
GJD1-1740	MICROFICHE - SOURCE LISTING
	SYSTEM/360 MODEL 44 1620 SIMULATOR FOR 1620 360C-SI-755
GJD1-2000	MICROFICHE - SOURCE LISTING
	SYSTEM/360 BASIC PROGRAMMING SUPPORT (BPS)
	PROGRAM NUMBERS BEGINNING WITH 360P
GJD1-2010	MICROFICHE - SOURCE LISTING
	SYSTEM/360-BOS BASIC OPERATING SYSTEM (COMPLETE)
GJD1-2012	MICROFICHE - SOURCE LISTING
	SYSTEM/360 BOS MACRO LISTINGS, PROGRAM NUMBERS 360B-CL-302,
	360B-IO-303, 360B-IO-304, 360B-IO-305
	360B-SU-023
GJD1-2020	MICROFICHE - SOURCE LISTING
	SYSTEM/360-TOS CONTROL PROGRAM (COMPLETE)
GJD1-2032	SYSTEM/360 DISK OPERATING SYSTEM
	MACROS - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-CL-453
GJD1-2035	SYSTEM/360 DISK OPERATING SYSTEM
	SORT/MERGE - TAPE
	MICROFICHE LISTINGS - PROGRAM NUMBER 360N-SM-400
GJD1-2036	SYSTEM/360 DISK OPERATING SYSTEM
	SORT/MERGE - DISK
	MICROFICHE LISTINGS - PROGRAM NUMBER 360N-SM-450
GJD1-2037	SYSTEM/360 DISK OPERATING SYSTEM
	BASIC FORTRAN IV
	MICROFICHE LISTING - PROGRAM NUMBER 360N-PO-451
GJD1-2038	SYSTEM/360 DISK OPERATING SYSTEM
	COBOL - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-CB-452

ORDER NUMBER	TITLE
GJD1-2039	SYSTEM/360 DISK OPERATING SYSTEM SYSTEM CONTROL/IOCS MICROFICHE LISTINGS - PROGRAM NUMBER 360N-CL-453
GJD1-2040	SYSTEM/360 DISK OPERATING SYSTEM ISFMS - MICROFICHE LISTING - PROGRAM NUMBERS 360N-IO-457, 360N-IO-477, 360N-IO-478
GJD1-2042	MICROFICHE - SOURCE LISTING SYSTEM/360-DOS AUTOTEST 360N-PT-459
GJD1-2043	SYSTEM/360 DISK OPERATING SYSTEM RPG/DISK - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-RG-460
GJD1-2044	SYSTEM/360 DISK OPERATING SYSTEM UTILITY GROUP 1 - MICROFICHE LISTING - PROGRAM 360N-UT-461
GJD1-2045	SYSTEM/360 DISK OPERATING SYSTEM UTILITY GROUP 2 MICROFICHE LISTINGS - PROGRAM NUMBER 360N-UT-462
GJD1-2046	SYSTEM/360 DISK OPERATING SYSTEM UTILITY GROUP 3 MICROFICHE LISTINGS - PROGRAM NUMBER 360N-UT-463
GJD1-2047	SYSTEM/360 DISK OPERATING SYSTEM PL/I - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-PL-464
GJD1-2048	SYSTEM/360 DISK OPERATING SYSTEM ASSEMBLER - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-AS-465
GJD1-2049	SYSTEM/360 DISK OPERATING SYSTEM ASSEMBLER F - MICROFICHE LISTINGS - PROGRAM 360N-AS-466
GJD1-2050	SYSTEM/360 DISK OPERATING SYSTEM BTAM - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-CQ-479
GJD1-2052	SYSTEM/360 DISK OPERATING SYSTEM QTAM - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-CQ-470
GJD1-2053	SYSTEM/360 DISK OPERATING SYSTEM MPS UTILITY MACROS MICROFICHE LISTINGS - PROGRAM NUMBER 360N-UT-471
GJD1-2054	S/360 DISK OPERATING SYSTEM VOCABULARY FILE UTILITY PROGRAM - MICROFICHE LISTINGS PROGRAM NUMBER 360N-UT-472
GJD1-2055	SYSTEM/360 DISK OPERATING SYSTEM COMPILER I/O MODULES MICROFICHE LISTINGS - PROGRAM NUMBER 360N-IO-476
GJD1-2056	SYSTEM/360 DISK OPERATING SYSTEM FORTRAN IV MICROFICHE LISTING - PROGRAMS 360N-PO-479, LM-480
GJD1-2057	SYSTEM/360 DISK OPERATING SYSTEM RELEASE 26 OLTEP PROGRAM NUMBER 360N-DN-481
GJD1-2058	SYSTEM/360 DISK OPERATING SYSTEM SORT/MERGE DISK/TAPE MICROFICHE LISTINGS - PROGRAM NUMBER 360N-SM-483
GJD1-2059	SYSTEM/360 DISK OPERATING SYSTEM - MICROFICHE LISTINGS - CE SERVICEABILITY PROGRAM OLTEP - PROGRAM NUMBER 360N-DN-481
GJD1-2060	SYSTEM/360 DISK OPERATING SYSTEM ANS COBOL - MICROFICHE LISTING - PROGRAM NUMBER 360N-CB-482
GJD1-2063	DISK OPERATING SYSTEM MODEL 155 EMULATOR MICROFICHE LISTINGS - PROGRAM NUMBER 360N-EU-490
GJD1-2100	EMULATOR FOR 1401/1440/1460 ON THE SYSTEM/370 MODEL 155 UNDER OS, MICROFICHE LISTING - PROGRAM NUMBER 360C-EU-735
GJD1-2150	EMULATOR FOR THE IBM 1401/1440/1460 ON THE SYSTEM/370 MODEL 155 UNDER OS PROGRAM NUMBER 360C-EU-735 MICROFICHE LISTINGS
GJD1-2300	MICROFICHE - SOURCE LISTING SYSTEM/360 EMULATOR (MODEL 30) 1401/1460 360C-EU-097
GJD1-3070	MICROFICHE - SOURCE LISTING IBM 1800 MPX MULTIPROGRAMMING EXECUTIVE SYSTEM 1800-OS-010 REFERENCE CARD
GJD1-4610	MICROFICHE - SOURCE LISTING SYSTEM/360 FORTRAN IV TO PL/I LANGUAGE CONVERSION PROGRAM 360C-CV-710
GJD1-4620	MICROFICHE - SOURCE LISTING SYSTEM/360 COBOL TO PL/I LANGUAGE CONVERSION PROGRAM 360C-CV-712
GJD1-9000	MICROFICHE - SOURCE LISTING SYSTEM/360 USA STANDARD COBOL LANGUAGE CONVERSION PROGRAM 360C-CV-713
GJD1-9030	MICROFICHE - SOURCE LISTING SYSTEM/360-TSS (CONTROLLED RELEASE I) 360G-CL-627

SECTION 2:  
ENTRIES ADDED TO THIS BIBLIOGRAPHY ARE IDENTIFIED BY A 'N' INDICATOR  
TO THE RIGHT OF THE ORDER NUMBER.

GA19-0004

IBM 1219 READER SORTER, MODEL 32  
IBM 1419 MAGNETIC CHARACTER READER, MODEL 32  
SYSTEMS REFERENCE LIBRARY MANUAL  
This publication contains detailed information about the keys, lights, switches, mechanical features, and special features of the IBM 1219 Reader Sorter, Model 32 and the IBM 1419 Magnetic Character Reader, Model 32.  
On-line and off-line data-flow and operating theory are fully discussed, with step-by-step procedures for each reader operation. Programming notes and error-correction routines are also covered in detail. It should be noted that, in the areas of on-line operation, error-recovery, and programming notes, this manual refers to the 1401 attachment only.  
For additional information, readers are referred to the following publications: IBM 1401/1460 MISCELLANEOUS Input/Output Instructions, (GA24-3068) and IBM #31( Magnetic Character Reader with IBM 1410 System, (GA22-0536. For information concerning the attachment of the IBM 1219/1419, Model 32 to the IBM System/360, Models 30 or 40, readers are referred to IBM 1419, MODEL 32 ATTACHED to IBM System/360 Model 30 or 40, (GA19-0023)

GA19-0010

IBM 3944 DIAL TERMINAL  
SYSTEMS REFERENCE LIBRARY MANUAL  
The IBM 3944 Dial Terminal is designed to be used as an input device to Audio Response Units through a telephone network.  
The 7772 Audio Response Unit is an input/output unit of the IBM System/360 Models 30, 40, 50, 65, and 75, interfacing the computer and a telephone network. The Audio Response Unit provides, under program control, composed messages of spoken words in response to digital inquiries or input messages. Except for the use of digital language from the calling to the called line, communication between remote inquiry terminals and the Audio Response Unit is conducted in the same manner as an ordinary telephone call.

GA19-0019

IBM SYSTEM/360 MODEL 30 1401/1440/1460 COMPATIBILITY FEATURE  
INVERTED PRINT EDIT AND STERLING SUB-FEATURES  
SYSTEMS REFERENCE LIBRARY MANUAL  
This publication is a supplement to the source manual entitled IBM SYSTEM/360 MODEL 30, 1401/1440/1460 compatibility feature, (GA24-3255), and should be read in conjunction with it. The information contained herein is intended primarily for users in World Trade sterling countries.  
This publication is limited to a description of (1) the use of the Comma and Decimal Point Inversion Sub-Feature; and (2) how sterling-currency applications can be processed with the Sterling-Currency Sub-Feature without conversion of existing 1400-series programs.  
The reader is also referred to the IBM SYSTEM/360 MODEL 30, functional characteristics, (GA24-3231) for a description of the capabilities, functions, and operational characteristics of the System/360 Model 30; and to REFERENCE MANUAL, IBM 1401 DATA PROCESSING SYSTEM STERLING CURRENCY FEATURES, Form UK3-1401-0.  
The IBM System/360 Bibliography, (GA22-6822), lists the associated reference publications.

GA19-0023

IBM 1419 MODEL 32 ATTACHED TO IBM SYSTEM/360  
MODEL 25, 30, 40, 50, AND 65  
SYSTEMS REFERENCE LIBRARY MANUAL  
This publication is a supplement to IBM 1219 Reader Sorter, Model 32--IBM 1419 Magnetic Character Reader, Model 32, Form A19-0004 and should be read in conjunction with it.  
This publication is limited to certain additions to A19-0004. Additional operating information relating to Power On-Power Off, Channel Line Termination and Sort Mode Selection is provided.

GA19-0034

IBM 1275 OPTICAL READER SORTER FOR SYSTEM/360 AND  
SYSTEM/370  
This publication describes the functional characteristics of the IBM 1275 Optical Reader Sorter and contains recommended programming techniques and complete operating instructions. The manual is intended primarily for systems analysts, programmers, and operators who are working in an OCR environment.  
The 1275 Optical Reader Sorter reads either of two common types of optical character recognition (OCR) printing and sorts interlaced paper documents. Models 1 and 3 operate off-line; Models 2 and 4 can operate either on-line with an IBM System/360 Model 25, 30, 40, or 50, or with an IBM System/370 Model 135, 145, 155, or 165, or off-line.  
For understanding the on-line operation of the 1275, the reader should be familiar with the Systems Reference Library, IBM System/360 Principles of Operation (GA22-6821).

GA19-0036

PAPER AND PRINT QUALITY REQUIREMENTS FOR IBM 1270 AND 1275  
OPTICAL READER SORTERS  
This publication describes the quality of paper and print required for documents that are to be read by the IBM 1270 and 1275 Optical Reader Sorters. The manual is intended for those responsible for providing the documents and for those who plan and maintain the optical character recognition system.  
The following topics are dealt with:  
1. The mechanical and optical characteristics desired of the paper.  
2. The sizes and conditions of documents.  
3. The quality of the printing, and the printing devices that can be used to obtain this quality.  
4. The procedures for manual, as well as machine, handling of the documents.  
For information on the 1270 and 1275 Optical Reader Sorters, refer to Systems Reference Library (SRL) IBM SYSTEM/360 COMPONENT DESCRIPTION - IBM 1270 OPTICAL READER SORTER, Order No. GA19-0035 and IBM SYSTEM/360 COMPONENT DESCRIPTION - IBM 1275 OPTICAL READER SORTER, Order No. GA19-0035 and IBM SYSTEM/360 COMPONENT DESCRIPTION - IBM 1275 OPTICAL READER SORTER, Order No. GA19-0034. For information on the design of documents, refer to SRL FORM-DESIGN CONSIDERATIONS - SYSTEM PRINTERS, Order No. GA24-3488. For information on the IBM printing devices dealt with in the manual, refer to SRL IBM 1403 PRINTER COMPONENT DESCRIPTION, order No. GA24-3073 and to the booklet IBM TYPING INSTRUCTIONS FOR OPTICAL CHARACTER RECOGNITION.

GA21-9025

IBM 1442-N1 AND N2 COMPONENT DESCRIPTION AND OPERATING  
PROCEDURES  
This publication describes the operating principles, machine features, and operating procedures of the IBM 1442-N1 Card Read-Punch and the IBM 1442-N2 Card Punch. Also, it discusses in general the operation of these devices with IBM System/360.

GA21-9026

IBM 2501 MODELS B1 AND B2 COMPONENT DESCRIPTION AND  
OPERATING PROCEDURES  
This publication describes the operation of the IBM 2501 Card Reader Models B1 and B2 with IBM System/360 Models 30 and higher. Operating principles, system communication, and operating procedures are presented.  
This manual assumes that the reader is familiar with the operation of the IBM System/360, as described in the SRL publication, IBM SYSTEM/360 PRINCIPLES OF OPERATION, Order Number GA22-6821.

GA21-9027

IBM 2520-B1, B2, AND B3, COMPONENT DESCRIPTION AND OPERATING  
PROCEDURES  
This publication describes the IBM 2520 Card Read Punch Model B1 and the IBM 2520 Card Punch Models B2 and B3 with IBM System/360 Models 30 and above. Included are discussions of machine features and operating principles and procedures.  
For information about attaching the 2520 to System/360 channels, see the publication IBM SYSTEM/360 CHANNEL characteristics and functional evaluation, (GA24-3411).

GA21-9031

IBM SYSTEM/360 COMPONENT DESCRIPTION AND OPERATING  
PROCEDURES: 1231-N1  
This publication is a reference manual for the IBM 1231 Optical Mark Page Reader, which serves as an input device (reading handwritten marks from sheets of paper) for IBM System/360 Models 25, 30, 40, and 50. The manual provides reference information about the 1231-N1, explaining 1231-N1 operation and its interaction with the system to which it is attached.  
The principle audience for this publication will be IBM System/360 programmers, system analysts, supervisors, and operators. Others who will use the manual are forms designers, forms manufacturers, and input document printers.  
Programmers, system analysts, and supervisors using this manual will need to be familiar with the system to which the 1231-N1 is attached.

GA21-9033

IBM SYSTEM/360 COMPONENT DESCRIPTION AND OPERATING  
PROCEDURES: IBM 2540 CARD READ PUNCH  
This publication explains the operating principles, procedures, and controls of the IBM 2540 Card Read Punch. Special features for the 2540 are also discussed.  
Refer to the IBM 2821 Control Unit SRL (GA24-3312), for information concerning the commands, status and sense indicators, and other programming considerations that affect the 2540. For similar information about an IBM 2540 attached to an IBM System/360 through the integrated 2540 attachment feature, refer to IBM SYSTEM/360 MODEL 25 functional characteristics, (GA24-3510).

SECTION 2:  
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TO THE RIGHT OF THE ORDER NUMBER.

- GA21-9064  
IBM SYSTEM/360 COMPONENT DESCRIPTION AND OPERATING PROCEDURES IBM 1287 OPTICAL READER  
 This publication describes the IBM 1287 Optical Reader and its features, operating principles and procedures, and operations with IBM System/360. The manual also contains detailed specifications for input documents and tapes, and for input data quality.
- GA21-9070  
IBM 1050 SPECIAL FEATURES DESCRIPTION, IBM ASCII DATA COMMUNICATION SYSTEM WITH REQ FEATURES F105029, 82027, 842028, AND 842029  
 This publication serves as a reference manual for the IBM 1050 ASCII Data Communication System, which provides the IBM System/360 Data Processing System with remote input and output capabilities using the American Standard Code for Information Interchange.  
 Detailed information about the IBM System/360 and the appropriate transmission control unit will be found in their respective SRL publications. Site preparation information in the publication, IBM 1050 DATA COMMUNICATION System Installation Manual, Physical Planning (GA24-3922) applies for this System.
- GA21-9081  
IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 1288 OPTICAL PAGE READER MODEL 1  
 This publication is a reference manual for the IBM 1288 Optical Page Reader, which serves as an input device for the IBM System/360 Models 25, 30, 40, and 50. This manual, which is organized by function, discusses:  
 Interconnection between the 1288 and the processing unit.  
 Characters read by the 1288 and their data codes. Data transfer between the 1288 and the system.  
 Programming information about 1288 control, status signals, and sense indications.  
 Optical Mark data recording and reading.  
 Operator controls for the 1288.  
 Operating procedures for the 1288 that are not application dependent.  
 Input document design and printing.  
 Special features for the 1288.  
 Input data printing.  
 The principle audience for this publication will be IBM System/360 programmers, system analysts, supervisors, and operators. Others who will use the manual are forms designers, forms manufacturers, and input document printers.  
 Programmers, systems analysts, and supervisors using this manual will need to be familiar with the system to which the 1288 is attached.
- GA21-9124  
3505 CARD READER 3525 CARD PUNCH SYSTEMS REFERENCE LIBRARY MANUAL  
 No abstract available.
- GA21-9139  
GENERAL INFORMATION MANUAL IBM 1287 MODEL V  
 This manual contains introductory information about the 1287 Optical Reader Model 5 for programmers, system analysts, supervisors, and machine operators. To fully understand the content of this manual, readers should be familiar with other 1287 models. References to the 1287 SRL GA21-9064 are made throughout the manual where basic 1287 operations information is necessary to understand Model 5 functions.
- GA21-9144  
IBM 2596 CARD READ PUNCH PROGRAMMER'S REFERENCE MANUAL AND OPERATOR'S GUIDE - SYSTEMS REFERENCE LIBRARY  
 This manual describes the IBM 2596 Card Read Punch. The manual is intended for IBM System/360 or IBM System/370 systems analysts, programmers experienced in assembler language, and operators.  
 This manual describes the following:  
 o General hardware characteristics of the 2596.  
 o Commands, status bytes, sense bytes and timing considerations.  
 o Keys, lights, and operating procedures.
- GA22-6810  
IBM SYSTEM/360 SYSTEM SUMMARY  
 This publication provides basic information about the IBM System/360, with the objective of helping readers to achieve a general understanding of this new data processing system and the interrelationships of its models and parts. Broad system concepts, basic and optional features, and specific input/output devices are briefly discussed.  
 It is assumed that the reader has a basic knowledge of data processing systems as in INTRODUCTION TO IBM DATA Processing Systems, Order Number GC20-1684.
- GA22-6813  
IBM - SYSTEM/360 MODEL 40 CONFIGURATOR  
 Sheet shows all possible units that can be configured on the System/360 Model 40.
- GA22-6814  
IBM SYSTEM/360 MODEL 50 CONFIGURATOR  
 Sheet shows all possible units can be configured on the System/360 Model 50.
- GA22-6821  
IBM SYSTEM/360 PRINCIPLES OF OPERATION SYSTEMS REFERENCE LIBRARY  
 This publication is the machine reference manual for the IBM System/360. It provides a direct, comprehensive description of the system structure; of the arithmetic, logical, branching, status switching, and input/output operations; and of the interruption system.  
 The reader is assumed to have a basic knowledge of data processing systems and to have read the IBM SYSTEM/360 System Summary, (GA22-6810) which describes the System, briefly and discusses the input/output devices available.
- GA22-6823  
SYSTEM/360 INPUT/OUTPUT CONFIGURATOR  
 This configurator deals with the input/output equipment attachable to IBM System/360 Models 25-91.  
 The presentation is arranged in two ways: by type of equipment (such as "direct access", "display", and "printers") and by machine number (such as 1052, 1403, and 7770). For each item of equipment, information is given concerning the way in which the item attaches to the system and the number of items that can be attached.
- GA22-6828  
IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 7340 MODEL 3 HYPERTAPE DRIVE  
 This publication describes the functions, operations, controls, and timings of the IBM 7340 Hypertape Drive Model 3, including the dynamics of 7340 reading and writing and details on the tape, tape cartridge, and optional automatic cartridge loader. In addition, all necessary details on the functions and operations of the IBM 2802 Hypertape Control are presented.  
 This manual provides information for customer systems personnel and is designed as a reference and guide in the training of operators, systems engineers, programmers, managers, and others who need a good general idea of how Hypertape operates within the System/360. It is an I/O adjunct to IBM System/360 Principles of Operation, (GA22-6821).
- GA22-6846  
IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2702 TRANSMISSION CONTROL  
 Information concerning the operation of an IBM 2702 in a System/360 based Teleprocessing operation is provided in this publication. It contains the following information:  
 A generalized description and advantages of the 2702 within a System/360-Teleprocessing activity  
 A functional description of the various sections and features of the 2702  
 Operational functions of the 2702  
 IBM 2702 commands--both channel based and terminal control based  
 Individual sections on 2702 Terminal Controls  
 Terminal Controls  
 IBM Terminal Control Type I  
 IBM Terminal Control Type II  
 World Trade Telegraph Terminal Control  
 IBM Telegraph Terminal Control Type I  
 IBM Telegraph Terminal Control Type II  
 Related literature is referenced by form number and briefly described in the IBM SYSTEM/360 BIBLIOGRAPHY, Form GA22-6822.
- GA22-6864  
IBM 2701 DATA ADAPTER UNIT COMPONENT DESCRIPTION  
 The IBM 2701 Data Adapter Unit Component Description is a reference manual describing the functions of the IBM 2701. The IBM 2701 permits an IBM System/360 or System/370 to communicate with a variety of remote terminals, devices, and stations.  
 This publication is designed to help the 2701 user, operator, and programmer to achieve efficient use of the 2701. Detailed descriptions are presented for:  
 o The 2701 in the IBM System/360 and System/370 environment  
 o Characteristics of the 2701 (including features)  
 o Terminal adapter types: IBM Start/Stop Terminal

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- Adapters, Telegraph Terminal Adapters, Parallel Data Adapter, Synchronous Transmit Receive (STR) Adapter, and Binary Synchronous Communications (BSC) Adapter
- o Programming considerations for the 2701
  - o Line control sequences to and from the 2701 and attached terminals
  - o Ending status and sense bit descriptions
- The reader should have a knowledge of teleprocessing and be familiar with the principles of operation for the IBM System/360 or System/370. For detailed information about Binary Synchronous Communication, refer to General Information - Binary Synchronous Communications (GA27-3004). For detailed information about a specific terminal, refer to the appropriate publication for that terminal.
- GA22-6884  
IBM SYSTEM/360 MODEL 65 FUNCTIONAL CHARACTERISTICS  
This manual presents the organization, characteristics, functions and features unique to the IBM System/360 Model 65. Major areas described are system structure, generalized information flow, standard and optional features, instruction timings, and the system control panel. Descriptions of specific input/output devices used with the IBM System/360 Model 65 appear in separate publications. Configurations for the IBM 2065 Processing Unit and I/O devices are available. It is assumed that the reader has a knowledge of the System/360 as defined in the IBM SYSTEM/360 PRINCIPLES OF OPERATION, (GA22-6821) and the IBM System/360 System Summary, Order Number GA22-6810.
- GA22-6866  
IBM SYSTEM/360 COMPONENT DESCRIPTION 2400 SERIES MAGNETIC TAPE UNITS 2003/2004 TAPE CONTROLS AND 2016 SWITCHING UNIT, MODEL 1  
This manual contains a comprehensive presentation of the characteristics, functions, and features of the IBM 2400 Series Magnetic Tape Units, 2003/2004 Tape Controls, and a general description of the IBM 2016 Model 1 Switching Unit. The 2400 series consists of the 2401, 2402, and 2420 Magnetic Tape Units, and 2403, 2404, and 2415 Magnetic Tape Units and Controls. In most instances, operational descriptions are limited to the channel and command level. Operating functions and procedures common and fundamental to all I/O operations are described in IBM SYSTEM/360 PRINCIPLES OF OPERATION, Order Number GA22-6821. Subjects covered include magnetic tape unit principles; keys and lights; tape load, unload, and cleaning procedures; status and sense information; magnetic tape handling; tape block and reel organization; and error recovery procedures.
- GA22-6887  
SYSTEM/360 MODEL 65 CONFIGURATOR  
Sheet shows all units that can be configured on the System/360 Model 65.
- GA22-6888  
IBM SYSTEM/360 MODEL 75 CONFIGURATOR  
Sheet shows all possible units that can be configured on the System/360 Model 75.
- GA22-6889  
IBM SYSTEM/360 MODEL 75 FUNCTIONAL CHARACTERISTICS  
This manual presents the organization, characteristics, functions and features unique to the IBM System/360 Model 75. Major areas described are: system structure, generalized information flow, standard and optional features, instruction timings, and the system control panel. Descriptions of specific input/output devices used with the IBM System/360 Model 75 appear in separate publications. This manual assumes that the reader has a knowledge of System/360 as defined in the IBM SYSTEM/360 PRINCIPLES OF OPERATION, (GA22-6821) and the IBM System/360 System Summary, Order Number GA22-6810.
- GA22-6868  
IBM SYSTEM/360 - COMPONENT DESCRIPTION, IBM 1827 DATA CONTROL UNIT  
This publication contains the functional characteristics and operating information for the IBM 1827 Data Control Unit. Operations with the IBM System/360 Models 30, 40, 44, and 50 are described. The following IBM 1800 Data Acquisition and Control System Process I/O features are described; Digital Input, Digital Output, Analog Output, Analog Input, and Comparator.
- GA22-6872  
IBM 1827 DATA CONTROL UNIT - CONFIGURATOR  
Chart lists all possible units that can be configured onto the 1827.
- GA22-6874  
IBM SYSTEM/360 MODEL 44 CONFIGURATOR  
A schematic drawing shows the complete Model 44 Processor with all standard and optional features. Input/output devices are shown on form GA22-6823, and Data Communications Devices on form GA22-6824.
- GA22-6875  
IBM SYSTEM/360 MODEL 44 FUNCTIONAL CHARACTERISTICS  
This manual describes the system structure, features, instruction timings and formulas, channels, device addressing, and operator controls unique to System/360 Model 44. It is assumed the reader has a knowledge of the System/360 as defined in the IBM SYSTEM/360 PRINCIPLES OF OPERATION, (GA22-6821) and the IBM System/360 System Summary, Order Number GA22-6810.
- GA22-6877  
IBM SYSTEM/360 COMPONENT DESCRIPTIONS AND OPERATING PROCEDURES IBM 1052 PRINTER-KEYBOARD MODEL 7 WITH IBM 2150 CONSOLE  
This publication describes the functional and operational characteristics of the IBM 1052 Printer-Keyboard Model 7 with the IBM 2150 CONSOLE.
- GA22-6881  
IBM SYSTEM/360 MODEL 40 FUNCTIONAL CHARACTERISTICS  
This manual presents the organization, characteristics, functions and features unique to the IBM System/360 MODEL 40. Major areas described are system structure, generalized information flow, standard and optional features, system control panel, instruction timings, and channel characteristics and functional evaluation. It is assumed that the reader has a knowledge of the System/360 as defined in the IBM SYSTEM/360 PRINCIPLES OF OPERATION, (GA22-6821) and the IBM System Summary, Order Number GA22-6810.
- GA22-6892  
IBM SYSTEM/360 SPECIAL FEATURE CHANNEL-TO-CHANNEL ADAPTER  
This manual describes the functions and operating characteristics of the channel-to-channel adapter in either multiple-processor or single-processor systems. IBM System/360 input/output operations that are exclusive of device considerations are described in detail in the IBM SYSTEM/360 PRINCIPLES OF OPERATION, Form A22-6821.
- GA22-6895  
IBM SYSTEM/360 COMPONENT DESCRIPTIONS - 2820 STORAGE CONTROL AND 2301 DRUM STORAGE  
This publication contains reference information for the operation and programming of the IBM 2820 Storage Control and IBM 2301 Drum Storage. It also contains a brief description of the special features that are available for use with the devices.
- GA22-6898  
IBM SYSTEM/360 MODEL 50 FUNCTIONAL CHARACTERISTICS  
This manual presents the organization, characteristics, functions and features unique to the IBM System/360 Model 50. Major areas described are system structure, generalized information flow, standard and optional features, system control panel, instruction timings, channel characteristics, concurrent input/output capabilities, selector channel loading, multiplexer channel loading, and channel interference with the CPU. It is assumed that the reader has a knowledge of the System/360 as defined in the IBM SYSTEM/360 PRINCIPLES OF OPERATION, Form A22-6821 and the IBM SYSTEM SUMMARY, Form A22-6810.
- GA22-6900  
DATA ACQUISITION SPECIAL FEATURES FOR THE IBM SYSTEM/360 MODEL 44  
This publication provides information about the operation, control, and interface of three special features:  
Direct Work  
Direct Data Channel  
Priority Interrupt  
These features are particularly suitable for high-speed data acquisition and relatively complex control applications in the scientific fields.

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- GA22-6907  
**IBM SYSTEM/360 MODEL 91 FUNCTIONAL CHARACTERISTICS**  
This publication describes the organization and the functional characteristics of the IBM System/360 Model 91, an information-processing system designed for ultrahigh-speed, large-scale scientific and business applications. The system components are described, and a detailed consideration is given to the functions of processor storage, the central processing unit, the input/output channels, and the operator-control and operator-intervention portions of the system control panel. In addition certain coding and timing considerations are discussed. The reader is assumed to have a knowledge of information-processing systems and to have read the IBM System/360 Principles of Operation, (GA22-6821).
- GA22-6908  
**IBM SYSTEM/360 MODEL 50 OPERATING PROCEDURES**  
This manual describes operator procedures for an IBM 2050 Processing Unit, operating with or without an associated IBM 1052 Printer-Keyboard. The manual describes machine functions, machine procedures, program-oriented procedures, and operator-intervention procedures. An appendix of reference material and an index are also included. The reader should also refer to the following SRL publications:  
IBM System/360 Principles of Operation, (GA22-6821)  
IBM SYSTEM/360 MODEL 50 FUNCTIONAL CHARACTERISTICS, Order Number GA22-6898  
IBM SYSTEM/360 TAPE OPERATING SYSTEM OPERATING GUIDE, Order Number GC24-5021  
IBM SYSTEM/360 DISK OPERATING SYSTEM OPERATING GUIDE, Order Number GC24-5022  
IBM SYSTEM/360 OPERATING SYSTEM OPERATOR'S GUIDE, Order Number GC28-6540  
(Of the three operating system publications listed above, at least the one applicable to the system in use should be read by the operator.)
- GA22-6909  
**IBM SYSTEM/360 MODEL 75 OPERATING PROCEDURES**  
This manual describes operator procedures for an IBM 2075 Processing Unit, operating with or without an associated IBM 1052 Printer-Keyboard. The manual describes system control panel machine functions, machine procedures, program-oriented procedures, and operator-intervention procedures. An appendix of reference material and an index are included. The reader is assumed to have a knowledge of the following SRL publications:  
IBM System/360 Principles of Operation, (GA22-6821) (sections on "System Structure" and "System Control Panel")  
IBM SYSTEM/360 MODEL 75 FUNCTIONAL CHARACTERISTICS, Order Number (GA22-6889)  
IBM SYSTEM/360 TAPE OPERATING SYSTEM OPERATING GUIDE, Order Number GC24-5021  
IBM SYSTEM/360 DISK OPERATING SYSTEM OPERATING GUIDE, Order Number GC24-5022  
IBM SYSTEM/360 OPERATING SYSTEM OPERATOR'S GUIDE, Order Number GC28-6540
- GA22-6910  
**IBM SYSTEM/360 MODEL 44 OPERATING PROCEDURES**  
This manual describes operator procedures for an IBM 2044 Processing Unit, operating with its associated Control Printer-Keyboard. The manual has sections devoted to system control panel machine functions, machine procedures, program-oriented procedures, operator-intervention procedures, and command examples, plus an appendix of reference material, and a complete index. The reader should also refer to the following SRL publications:  
IBM System/360 Principles of Operation, (GA22-6821) (sections on System Structure and System Control Panel)  
IBM System/360 Model 44 functional characteristics, Order Number GA22-6875.  
IBM System/360 Model 44 PROGRAMMING SYSTEM, GUIDE TO System use, Order Number GC20-6812  
IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM OPERATOR'S Guide, Order Number GC28-6815
- GA22-6911  
**IBM SYSTEM/360 MODEL 40 OPERATING PROCEDURES**  
This manual describes operator procedures for an IBM 2040 Processing Unit, operating with or without an associated IBM 1052 Printer-Keyboard. The manual describes the system control panel, system procedures, program-oriented procedures, operator-intervention procedures, and IPL procedures. An appendix of reference material and an index are also included. This manual is intended for the Model 40 system operator. The reader is assumed to have a knowledge of information-processing systems and to have read the
- Operator's Guide for the operating system in use at this installation.
- GA22-6916  
**IBM SYSTEM/360 MODEL 85 FUNCTIONAL CHARACTERISTICS**  
This publication describes the organization and the functional characteristics of the IBM System/360 Model 85, an information-processing system designed for very high-speed, large-scale scientific and business applications. The system components are described, and a detailed consideration is given to the functions of processor storage, the central processing unit, the input/output channels, and the operator-control and operator-intervention portions of the system control panel. In addition, certain coding and timing considerations are described.
- GA22-6920  
**IBM SYSTEM/360 MODEL 85 CONFIGURATOR**  
Sheet shows all units that can be configured on the System/360 Model 85.
- GA22-6927  
**IBM SYSTEM/360 MODEL 85 OPERATING PROCEDURES**  
This manual describes operator procedures for an IBM 2085 Processing Unit, operating with or without an associated IBM Operator Console Feature. The manual describes machine functions, machine procedures, program-oriented procedures, and operator intervention procedures. In addition, appendices of reference material and an index are included. The reader is assumed to have a knowledge of the following SRL publications:  
IBM System/360 Principles of Operation, (GA22-6821).  
IBM SYSTEM/360 MODEL 85 FUNCTIONAL CHARACTERISTICS, Order Number GA22-6916  
IBM SYSTEM/360 OPERATING SYSTEM OPERATOR'S GUIDE, Order Number GC28-6540  
For information pertaining to the operation of units attachable to the System/360 Model 85, refer to the appropriate SRL publication. SRL publications that pertain to IBM System/360 and attachable units are abstracted and referenced by Order Number in IBM System/360 Bibliography, GA22-6822.
- GA22-6935  
**IBM SYSTEM/370 MODEL 165 FUNCTIONAL CHARACTERISTICS**  
This publication describes the organization and the functional characteristics of the IBM System/370 Model 165, an information-processing system designed for very high-speed, large-scale scientific and business applications. The system components are described, and a detailed consideration is given to the functions of processor storage, the central processing unit, the input/output channels, and the operator-control and operator-intervention portions of the system control panel. In addition, certain coding and timing considerations are described. The reader is assumed to have a knowledge of information-processing systems and to have an understanding of the System/360, as that system is described in the IBM SYSTEM/360 PRINCIPLES OF OPERATION, Order No. GA22-6821. The IBM SYSTEM/370 PRINCIPLES OF OPERATION, GA22-7000, should be used in conjunction with the IBM SYSTEM/360 PRINCIPLES OF OPERATION.
- GA22-6942  
**IBM SYSTEM/370 MODEL 155 FUNCTIONAL CHARACTERISTICS**  
This publication describes the organization, functional characteristics, and features of the IBM System/370 Model 155. System components are described, and consideration is given to the central processing unit, main storage, input/output channels, and the operator control and operator intervention portions of the system control panel. Instruction timing information is also given. This publication is intended for users and potential users of the Model 155. The reader is assumed to have a background knowledge of data processing systems.
- GA22-6943  
**IBM SYSTEM/360 MODEL 195 FUNCTIONAL CHARACTERISTICS**  
This publication describes the organization and functional characteristics of the IBM System/360 Model 195, an information-processing system designed for ultrahigh-speed, large-scale scientific applications. System components are described, and detailed consideration is given to the functions of processor storage, central processing unit, input/output channels, and operator-control and operator-intervention portions of the system control panel. Coding and timing considerations are discussed. The reader is assumed to have a knowledge of information-processing systems and to have read the IBM System/360 Principles of Operation, Order Number GA22-6821.
- \*N

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- GA22-6944  
SYSTEM/360 MODEL 195 CONFIGURATOR  
Sheet shows all units that can be configured on the System/360, Model 195.
- GA22-6951  
IBM 50 MAGNETIC DATA INSCRIBER OPERATOR'S GUIDE  
This manual for the IBM 50 Magnetic Data Inscrubber (MDI) has been prepared to satisfy the requirements of the operator. It contains descriptions, in text and illustrations, of all the possible operations. Included are a general description of the machine and its capabilities, procedures for readying the machine, and detailed descriptions of operations, recovery procedures, specific applications, special features, and available accessories.
- GA22-6954  
IBM SYSTEM/360 MODEL 195 OPERATING PROCEDURES  
This manual describes operator procedures for an IBM System/360 Model 195, operating with or without an associated IBM 1052 Printer-Keyboards. This manual describes the system control panel, system procedures, program-oriented procedures, operator-intervention procedures, and IPL procedures. An appendix of reference material and an index are also included. This manual is intended for the Model 195 system operator.  
The reader is assumed to have a knowledge of information-processing systems and to have read the IBM SYSTEM/360 OPERATING SYSTEM, OPERATOR'S GUIDE, Order No. GC28-6540.
- GA22-6955  
IBM SYSTEM/370 SPECIAL FEATURE DESCRIPTION: 709/7090/7094/7094 II COMPATIBILITY FEATURE FOR IBM SYSTEM/370 MODEL 165  
This publication contains information about the IBM 7094 compatibility feature (#7119), which adds interpretive facilities to System/370 Model 165 for use by the IBM 7094 emulator program. The combination of the feature and the program (referred to as the 7094 emulator) allows execution on IBM System/370 Model 165 of programs written for the IBM 709, 7090, 7094, and 7094 II Data Processing Systems.
- GA22-6956  
IBM SYSTEM/370 MODEL 165 CONFIGURATOR  
Diagram of 3165 Processing Unit and attachable channels (no I/O units) showing capacities and all standard and special features.
- GA22-6957  
IBM SYSTEM/370 MODEL 155 CONFIGURATOR  
This sheet shows standard and optional features, main storage sizes by model, channel and sub-channel availability by model, and adapters required for console I/O units on the System/370 Model 155.
- GA22-6958  
IBM SYSTEM/370 SPECIAL FEATURE DESCRIPTION: 7070/7074 COMPATIBILITY FEATURE FOR IBM SYSTEM/370 MODEL 165  
This publication contains information about the IBM 7070/7074 compatibility feature, which adds interpretive facilities to System/370 Model 165 for use by the IBM 7074 emulator program. The combination of the feature and the program (referred to as the 7074 emulator) allows execution on IBM System/370 Model 165 of programs written for the IBM 7070 and 7074 Data Processing Systems.
- GA22-6962  
IBM SYSTEM/370 MODEL 155 CHANNEL CHARACTERISTICS  
This publication describes methods used to calculate System/370 Model 155 data handling capabilities that are dependent upon I/O-channel configurations and operations. Considerations of methods are also presented for priority attachment of I/O devices for maximum throughput.  
Information related to specific I/O devices is contained in separate Systems Reference Library publications. These publications are listed by order number and briefly described in IBM System/360 Bibliography, GA22-6822.  
This manual is intended for users at the system programmer level; it assumes a thorough background in I/O programming techniques.
- GA22-6963  
IBM SYSTEM/370 SPECIAL FEATURE DESCRIPTION 7080 COMPATIBILITY FEATURE FOR IBM SYSTEM/370 MODEL 165  
This publication contains information about the IBM 7080 compatibility feature, which adds interpretive facilities to System/370 Model 165 for use by the IBM 7080 emulator program. The combination of the feature and the program (referred to as the 7080 emulator) allows execution on IBM
- System/370 Model 165 of programs written for the IBM 7080 Data Processing System.
- GA22-6966  
IBM SYSTEM/370 MODEL 155 OPERATING PROCEDURES  
This manual describes operator procedures for an IBM System/370 Model 155. Machine coverage includes console indicators, switches, and keys; printer-keyboard; and operating procedures. The manual is intended for the Model 155 system operator. The reader is assumed to have a knowledge of information-processing systems and to have read the IBM SYSTEM/360 OPERATING SYSTEM: OPERATOR'S PROCEDURES, GC28-6692.
- GA22-6969  
IBM SYSTEM/370 MODEL 165 OPERATING PROCEDURES  
SYSTEM LIBRARY MANUAL  
This manual describes the manual operator procedures for an IBM System/370 Model 165. This material provides a guide to performing the procedures which cover the bulk of the operator's job in operating the Model 165. This publication is written for the working operator who has already received training in general computer operation. This book is prepared specifically for the Model 165 system operator; other models have their own manuals. Covering the overall daily manual operation, this information includes System Procedures, Operator Intervention Procedures, How the System Works (control panels), and supplementary appendixes useful for operating this model. The reader is assumed to have read the IBM SYSTEM/360 OPERATING SYSTEM: OPERATOR'S PROCEDURES, GC28-6692.
- GA22-6983  
SYSTEM/370 SPECIAL FEATURE: CHANNEL-TO-CHANNEL ADAPTER  
SYSTEM LIBRARY MANUAL  
This publication provides a functional description of the SYSTEM/370 Channel-to-Channel Adapter. The System/370 and System/360 channel-to-channel adapters are alike in function and similar in operation. This manual describes all the functions of the System/360 adapter as provided in IBM System/360 Special Feature Channel-to-Channel Adapter, plus unique System/370 extensions. Reference information is included which pertains to the adapter's use, operation, and commands, and status data required for the assembly language programming.  
The reader should possess a basic knowledge of data processing systems and, specifically, the IBM System/370. Such information can be found, for example, in the Introduction to IBM Data Processing Systems, GC28-1684, and in the IBM System/370 System Summary, GA22-7001.  
This manual is directed to the user who needs a description of the adapter's function and operation, as well as to the systems programmer, systems engineer, or maintenance personnel who need reference information in the writing and maintenance of assembly language programs for the channel-to-channel adapter.
- GA22-7000  
IBM SYSTEM/370 PRINCIPLES OF OPERATION  
The IBM System/370 is a data processing system that is based on the IBM System/360 but that extends the capabilities of that system. This manual describes extensions to the functional design of the System/360 that are incorporated in models of the System/370.  
The reader is assumed to have an understanding of the System/360, as described in the IBM SYSTEM/360 PRINCIPLES OF OPERATION, GA22-6821. The SYSTEM/370 PRINCIPLES OF OPERATION should be used in conjunction with the SYSTEM/360 PRINCIPLES OF OPERATION.  
For information about the characteristics, functions, and features of a specific System/370 model, use the functional characteristics manual for that model.
- GA22-7001  
IBM SYSTEM/370 SYSTEM SUMMARY  
This publication is intended to provide basic information about IBM System/370, the data processing system based on IBM System/360 but extending beyond the capabilities of that system. The objective of this publication is to help readers achieve a general understanding of this data processing system and of the interrelationships of its components. Briefly discussed are the system concepts, features, individual models, programming systems, and attachable input/output devices of System/370.  
A basic knowledge of data processing systems, such as that given in the INTRODUCTION TO IBM DATA PROCESSING SYSTEMS, GC28-1684, is assumed.  
More detailed information about System/370 is available in IBM System/370 PRINCIPLES OF OPERATION, GA22-7000, and the associated publication, IBM SYSTEM/360 PRINCIPLES OF OPERATION, GA22-6821. For more information about any individual System/370 model, see the functional characteristics manual for the model.

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- GA22-7882  
SYSTEM/370 INPUT/OUTPUT CONFIGURATION  
This document highlights all of the Input/Output devices that can be configured on the System/370.  
Document Format  
Document Corner Cuts  
Document Feeding  
This publication is for those familiar with programming and operating the IBM 1418 and 1428, as described in these System Reference Library publications:  
PROGRAMMING FOR THE IBM 1418 AND IBM 1428  
Optical Readers, Order Number GC24-1491  
IBM 1418 OPTICAL CHARACTER READER AND IBM 1428 Alphameric Optical Reader, Order Number GA24-1473
- GA24-1421  
IBM 1412 MAGNETIC CHARACTER READER MODEL I  
This reference publication contains detailed information about the keys, lights, switches, mechanical features, and special features of the IBM 1412 Magnetic Character Reader. On-line and off-line data-flow and operating theory are fully discussed with step-by-step procedures for each reader operation. Programming notes and error-correction routines are also covered in detail.
- GA24-1446  
IBM 1404 PRINTER  
The IBM 1404 Printer, an output unit for the IBM 1401 Data Processing System and the IBM System/360, Models 30, 40, and 50, is capable of printing either cut-card forms or continuous forms. This reference publication presents the functional and operational characteristics of the 1404, including the settings of the feed mechanism and the print unit. It also describes the read-compare special feature. Information on timing and on certain normal operating procedures is presented.
- GA24-1452  
PRINT QUALITY CONSIDERATIONS IBM 1418 AND IBM 1428  
This publication contains a detailed description of the print quality requirements of printing to be read by the IBM 1418 Optical Character Reader and the IBM 1428 Alphameric Optical Reader, and to be used as input to an IBM 1401 Data Processing System, IBM 1460 Data Processing System, and IBM System/360, Model 30. The use of print-quality measuring devices is fully explained with examples of the range of acceptable printing produced by the IBM 407 Accounting Machine, IBM 1403 Printer, IBM SELECTRIC Typewriter and IBM Electric Typewriter.
- GA24-1473  
IBM 1418 OPTICAL CHARACTER READER  
IBM 1428 ALPHAMERIC OPTICAL READER  
This publication describes the operation of the IBM 1418 Optical Character Reader and the IBM 1428 Alphameric Optical Reader used as input devices to an IBM data processing system.  
Included are a description of character and mark-reading capabilities, off-line sorting, document-design requirements, and examples of the range of acceptable print quality of the documents to be scanned by both machines. The use of the IBM 1418/1428 Document Design and PDS Timing Chart and the formulas for calculating document output and maximum character reading per document are also fully discussed as an aid in optimizing the design of documents to be read by both machines.
- GA24-1499  
IBM 1219 READER SORTER IBM 1419 MAGNETIC CHARACTER READER  
This publication describes the operating characteristics, controls, indicators, and features of the IBM 1219 Reader Sorter and the IBM 1419 Magnetic Character Reader. Operating theory and procedures are given for off-line operation of both machines and on-line operation of the IBM 1419 within the 1400 series and System/360.  
Document handling and data flow are discussed fully, and step-by-step procedures and practical examples are given for each machine. Programming notes and error recovery procedures are also given.
- GA24-3073  
IBM 1403 PRINTER COMPONENT DESCRIPTION  
SYSTEMS REFERENCE LIBRARY MANUAL  
This reference publication for system planners, programmers, and operators describes the functions and operations of the IBM 1403 Printer. Special features available are described; timing information is presented; and print-quality requirements are set forth. The reader should be familiar, within his field of responsibility, with the system to which this printer is attached. For system and programming information, refer to publications listed in the bibliography for the system.
- GA24-3081  
MARK READ STATION (SLANTED MARK) FOR IBM 1418 AND IBM 1428  
This publication describes the Mark Read Station (Slanted Mark) special feature. This feature is available for the IBM 1418 Optical Character Reader, and for the IBM 1428 Alphameric Optical Reader. A description of these functional specifications is included:  
Document Specifications  
Mark Reading
- GA24-3089  
TELE-PROCESSING AND DATA COLLECTION BIBLIOGRAPHY  
This bibliography lists the available reference literature for installing, programming, and operating IBM Tele-processing and data collection equipment, used independently or with several data processing systems. For publications on data communications equipment and programs associated with a single data processing system, see the bibliography for that system.  
Part 1 lists publications by major subjects. This sequence (subject code) may be used in building a library.  
Part 2 is a cross-index of Tele-processing or data collection equipment with associated data processing system.  
Part 3 contains the abstract of each Tele-processing or data collection publication in form-numbered sequence. Copies of most form-numbered publications may be ordered through the local IBM Sales Representative.
- GA24-3120  
IBM 1443 PRINTER MODELS 1 TO 4 AND N1  
IBM 1445 PRINTER MODELS 1 AND N1 COMPONENT DESCRIPTION  
This reference publication describes the operation of the IBM 1443 and 1445 Printers with the IBM 1240, 1401, 1440, 1450, 1460, 1800, and the IBM System/360 Data Processing System Models 25 through 85.  
The manual discusses timing information for the printer and the tapecontrolled carriage, as well as their functional and operating characteristics. The speed of the printer using the various character sets is described. Also, included is command, status, and sense information for these printers used with the IBM System/360 Data Processing System.
- GA24-3231  
IBM SYSTEM/360 MODEL 30 FUNCTIONAL CHARACTERISTICS  
This reference publication describes the relationship of the IBM System/360 Model 30 to the entire System/360. The system's capabilities, features, I/O channels, and operations are also discussed.
- GA24-3232  
IBM SYSTEM/360 MODEL 30 CONFIGURATOR  
Chart listing all units that can be configured on the System/360 Model 30.
- GA24-3255  
IBM SYSTEM/360 MODEL 30 1401/1440/1460 COMPATIBILITY FEATURE  
This publication describes the 1401/1440/1460 Basic Compatibility feature and associated subfeatures for the System/360 Model 30. These special features enable a rapid and simplified transfer from 1401-, 1440-, or 1460-oriented applications to the IBM System/360 Model 30.
- GA24-3256  
IBM 1285 OPTICAL READER COMPONENT DESCRIPTION AND OPERATING PROCEDURES  
This publication describes the IBM 1285 Optical Reader. The major topics include operating principles, controls and operating procedures, programming for the IBM System/360, and input tape and printing specifications.
- GA24-3312  
IBM 2821 CONTROL UNIT  
This reference publication presents a description of input/output operations controlled through the IBM 2821 Control Unit. The IBM 2540 Card Read-Punch and the IBM 1403 and 1404 Printers controlled by the IBM 2821 Control Unit are briefly described.  
Commands, status, and sense information pertaining to the attached input/output is presented. Programming timing considerations for control unit, card reader, card punch, and printers are also presented.
- GA24-3342  
BATCH NUMBERING FEATURE FOR IBM 1241 AND 1419 MAGNETIC INK CHARACTER RECOGNITION READERS  
This publication describes the functions and features of the Batch Numbering special feature when used with the IBM 1241 Magnetic Ink Character Recognition Reader and the IBM 1419 Magnetic Character Reader.

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The operation of the keys, lights, and switches, as well as the programming information needed to operate the feature, is covered in detail.

GA24-3365

IBM SYSTEM/360 MODEL 30 1620 COMPATIBILITY FEATURE  
This publication describes the IBM 1620 Compatibility Feature for the IBM System/360 Model 30. This special feature provides a means of rapid and simplified transfer of 1620-oriented applications to the IBM System/360 Model 30.

GA24-3373

IBM SYSTEM/360 MODEL 30 OPERATING GUIDE  
This reference publication describes operator procedures for the IBM 2030 Processing Unit and the IBM 1052 Printer Keyboard (attached to the IBM System/360 Model 30).

GA24-3388

IBM 2671 PAPER TAPE READER.  
IBM 2822 PAPER TAPE READER CONTROL - COMPONENT DESCRIPTION  
This publication gives sufficient information to understand the IBM 2671 Paper Tape Reader and IBM 2822 Paper Tape Reader Control and the associated special features. The main purpose of the publication, however, is to assist programmers and operators to operate the machine when it is used as an I/O unit to the IBM System/360 Model 25, 30, 40, 44, 50, or 67, or to System/370. The relevance of the controls and indicators for such a configuration are given, together with points of specific interest to the following:

- o Programmers: Operational characteristics, including stop conditions, addressing, recovery procedures, and System/360 commands.
- o Operators: Tape loading, unloading, rewinding, and repair procedures.
- o System Analysts: Tape specifications.

The sections for programmers presuppose a knowledge of System/360 and System/370 operation and of paper tape readers, but no such knowledge is required in understanding the sections for operators.

ASSOCIATED PUBLICATIONS

Physical Characteristics of the 2671 Paper Tape Reader and 2822 Paper Tape Reader Control and of System/360 operation are given in the following publications:

1. IBM SYSTEM/360 INSTALLATION MANUAL - PHYSICAL PLANNING, Order No. GC22-6820.
2. IBM SYSTEM/360 INSTALLATION MANUAL - PHYSICAL PLANNING, IBM WORLD TRADE 50-HERTZ REQUIREMENTS, Order No. GC19-0001.

GA24-3411

IBM SYSTEM/360 MODEL 30 CHANNEL CHARACTERISTICS AND FUNCTIONAL EVALUATION

This reference publication describes methods used to calculate System/360 Model 30 data handling capabilities that are dependent upon I/O-channel configurations and operations. Also presented are considerations of methods for:

1. Priority attachment of I/O units for maximum through
2. Addressing I/O units,
3. Calculating buffer transfer times,
4. Calculating interference (with the processing unit) caused by channel operations.

Calculations for a System/360 Model 30 with a 1.5 microsecond RW (Read/Write) cycle and with a 2-microsecond RW cycle are discussed separately.

The user of this publication should be thoroughly familiar with I/O programming considerations as described in the IBM System/360 PRINCIPLES OF OPERATION, GA22-6821. Information related to specific I/O devices is contained in separate Systems Reference Library publications.

GA24-3426

IBM 2712 REMOTE MULTIPLEXOR

This reference publication describes the IBM 2712 Remote Multiplexor and its operation. The 2712 is used with IBM 1050, 1060, 2740, and 2741 terminals (134.49 baud) and with telegraph terminals (74.2 baud) connected to IBM System/360 through the IBM 2702 and 2703 Transmission Control Units. Communication facilities that can be used with the 2712 are specified.

GA24-3488

FORM DESIGN REFERENCE GUIDE FOR PRINTERS

This publication contains information to be considered by personnel designing, ordering, or using forms for the IBM 1132, 1403, 1404, 1443, 2203, 2213, 3210, 3211, 3215, 5203, 5213 printers.

Companion publications useful in designing forms are:  
OCR Input Preparation Guide, Order No. GC20-1686  
Print Chart (Six Lines per Inch), GX20-1816  
Print Chart (Eight Lines per Inch), GX20-1818

GA24-3500

IBM 1259 MAGNETIC CHARACTER READER COMPONENT DESCRIPTION  
This reference publication contains information about all the features and functions of the IBM 1259 Magnetic Character Reader. On-line and off-line data flow and operating theory are discussed, with detailed programming information and operating instructions for each reader function.

GA24-3509

IBM 2944 DATACHANNEL REPEATER INSTALLATION MANUAL-PHYSICAL PLANNING

This publication provides physical planning information for the IBM 2944 Data Channel Repeater Model 1 (master) and Model 2 (remote) when used with the IBM System/360. Included are physical specifications and cable, electrical and environmental requirements.

GA24-3510

IBM SYSTEM/360 MODEL 25 FUNCTIONAL CHARACTERISTICS

This reference publication augments the IBM SYSTEM/360 PRINCIPLES OF OPERATION, GA22-6821. It describes the relationship of the Model 25 to other System/360 models: system capabilities, system control panel, input/output channels and integrated I/O attachments, operations, instruction timings, and system features.

The reader should have a knowledge of the System/360 as defined in the IBM SYSTEM/360 PRINCIPLES OF OPERATION.

GA24-3511

IBM SYSTEM/360 MODEL 25 CONFIGURATOR

Chart listing all possible units that can be configured on System/360 Model 25.

GA24-3512

IBM SYSTEM/360 MODEL 25 1401/1460 AND 1440 COMPATIBILITY FEATURES

This publication describes the 1401/1460 and 1440 Compatibility features for the IBM System/360 Model 25. These special features enable a rapid and simplified transfer from 1401-, 1460-, or 1440-oriented applications to the IBM System/360 Model 25.

Refer to the IBM SYSTEM/360 MODEL 25 FUNCTIONAL Characteristics, (GA24-3510), for a description of the capabilities, functions and operational characteristics of the System/360 Model 25.

GA24-3516

IBM 2938 ARRAY PROCESSOR MODEL 1 RPQ W24563, MODEL 2 RPQ 815188 INSTALLATION MANUAL - PHYSICAL PLANNING

This publication contains physical planning information for installing the IBM 2938 Array Processor Models 1 and 2 (RPQ). Included are dimensions, weights, electrical requirements, and environmental specifications. A cable diagram and a cable requirements chart are provided.

GA24-3519

IBM SYSTEM/360 CUSTOM EQUIPMENT DESCRIPTION: 2938 ARRAY PROCESSOR (MODEL 1, RPQ W24563; MODEL 2, RPQ 815188) SYSTEMS REFERENCE LIBRARY MANUAL

The IBM 2938 Array Processor is an auxiliary computing unit for System/360 Models 44, 65, 67-1, 75 and 85. It performs high-speed processing of arrays of data using short-precision floating-point arithmetic. This publication describes the principles of operation and functional characteristics of the Array Processor.

A prerequisite for studying this bulletin is a basic knowledge of the IBM System/360 as contained in the IBM SYSTEM/360 PRINCIPLES OF OPERATION, GA22-6821.

GA24-3523

IBM SYSTEM/360 MODEL 25 OPERATING PROCEDURES

This publication contains procedures and reference information for personnel operating the IBM System/360 Model 25. Included are the IBM 2025 Processing Unit and the following I/O devices that can be connected to the system via integrated attachment features:

- IBM 1052 Printer-Keyboard Model 7
- IBM 2540 Card Read Punch
- IBM 2311 Disk Storage Drive Model 1
- IBM 1403 Printer Models 2, 7 and N1

Procedures are given for system power on and power off, system initialization, store/display, single-instruction processing, I/O device readying, and printer-keyboard alter/display. Indicators, lights, keys, switches, and controls for the 2025 Processing Unit and the listed I/O devices are described. Operator diagnostic flowcharts, I/O setup procedures appear in the appendix.

For additional information on specific units and special features, refer to appropriate publications listed in IBM SYSTEM/360 BIBLIOGRAPHY GA22-6822.

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GA24-3524

IBM SYSTEM/360 MODEL 25 MODEL 20 MODE FEATURE

This reference publication describes the characteristics, implementation, and operating considerations for the IBM System/360 Model 25. Included in this document are descriptions of the functional operation, operator functions, and restart procedures for the applicable I/O devices.

The reader should have a basic knowledge of the IBM System/360 Model 25 operation and the operation of the I/O devices described.

Information in the following IBM publications is essential for a complete understanding of the material in this manual:

IBM System/360 Model 20 Functional Characteristics, GA26-5847

IBM System/360 Model 25 Functional Characteristics, GA24-3510

Form Design Reference Guide for Printers, GA24-3488, is referenced from this publication for detailed forms requirements information.

General information about related System/360-370 operation can be found in System/360 Principles of Operation GA22-6821, System/370 Principles of Operation, GA22-7000, and System/360 and System/370 I/O Interface Channel to Control Unit Original Equipment Manufacturers Information, GA22-6974.

GA24-3545

IBM 2956-5 MULTI-POCKET READER SORTER INSTALLATION MANUAL PHYSICAL PLANNING

This publication provides physical planning information for the IBM 2956-5 Multi-Pocket Reader Sorter when used with the IBM System/360 Models 30, 40, and 50. Included are physical specifications and cable, electrical, and environmental requirements.

GA24-3526

IBM SYSTEM/360 MODEL 25 INTEGRATED COMMUNICATIONS ATTACHMENT FEATURE

This reference publication describes the operation of the Integrated Communications Attachment feature for the IBM System/360 Model 25. Included is a general description of the feature and its common controls. Also included are the communications facilities that can be used with the Integrated Communications Attachment (ICA) and the remote terminals and processors that may be serviced by the ICA. Configuration limitations, overrun considerations, and effects on multiplexer channel data rates are also presented.

GA24-3547

IBM SYSTEM/360 MODEL 25, HIGH-SPEED CHANNEL-3414 ATTACHMENT FEATURE RPQ E69109

This publication describes the operation of the 2314 attachment feature used with the IBM System/360 Model 25. Programming and operating information is provided in the form of instruction timing, error indications, and CPU indicators as applicable to high-speed channel operation.

GA24-3538

IBM SYSTEM/360 MODEL 25 CHANNEL CHARACTERISTICS AND FUNCTIONAL EVALUATION

This reference publication describes methods used to calculate IBM System/360 Model 25 data-handling capabilities that are dependent upon I/O-channel configurations and operations. Also presented are considerations of methods for:

1. Priority attachment of I/O units for maximum throughput.
2. Addressing I/O units.
3. Calculating buffer transfer times.
4. Calculating interference (with the processing unit) caused by channel operations.

Calculations for an IBM System/360 Model 25 with a selector interface and with a multiplexer interface are discussed.

GA24-3550

IBM 3215 CONSOLE PRINTER-KEYBOARD COMPONENT DESCRIPTION

This reference publication describes the functions and operation of the IBM 3215 Console Printer-Keyboard. This information is intended for those planning for and operating an IBM System/370 Models 135, 145, and 155. Presented are the printing method, control keys and lights, functional timing, forms controls and specifications, and make-ready procedures.

For system operation (including programming and operating procedures), refer to the IBM System/360 and System/370 Bibliography (GA22-6822), for the Functional Characteristics and Operating Procedures manuals for the particular system and model.

GA24-3542

IBM 1255 MAGNETIC CHARACTER READER MODELS 1, 2, AND 3 COMPONENT DESCRIPTION

This publication contains information describing the purpose, function, and operation of the reader/sorter for bank management, IBM sales representatives, systems engineers, and customer engineers. For machine operators it contains operating, recovery, and jam removal procedures.

GA24-3551

IBM 2956-5 MULTI-POCKET MCR READER SORTER CUSTOM UNIT DESCRIPTION: RPQ W19976

This publication provides an introduction to the 2956-5 Multi-Pocket Reader Sorter. General information on operating controls and procedures is presented only in the areas that are different from the IBM 1419 Magnetic Character Reader. Command-byte structure and sense indications are provided for programmer use. For additional information, refer to the IBM 1219 READER SORTER, IBM 1419 MAGNETIC CHARACTER READER, GA24-1499.

GA24-3543

IBM 3211 PRINTER 3216 INTERCHANGEABLE TRAIN CARTRIDGE AND 3811 PRINTER CONTROL UNIT COMPONENT DESCRIPTION AND OPERATOR'S GUIDE

This manual provides reference information and operating procedures for the IBM 3211 Printer, 3216 Interchangeable Train Cartridge and 3811 Printer Control Unit.

The 3211 Printer, 3216 Interchangeable Train Cartridge and 3811 Printer Control Unit comprise a high-speed printer subsystem for attachment to System/360 and System/370 Data Processing Systems via the System/360 Standard I/O Interface. This reference publication is intended for:

- o System planners who require information about features, character sets, subsystem performance, forms and ribbons.
- o System programmers who use printer commands, status and sense information and error-recovery procedures.
- o Operators who perform basic set up, operating and error-recovery procedures.

A basic knowledge of System/360 is assumed. The manual is organized into three parts:

- o Subsystem components describes the subsystem features, available character sets and performance characteristics.
- o Programming information describes valid subsystem commands and available status and sense bytes, and provides buffer loading and suggested error-recovery procedures.
- o Operating information describes the subsystem keys, indicators and controls and provides procedures for initial set up, running, and error-recovery.

Appendixes contain reference information, such as EBCDIC chart, for all users.

GA24-3552

IBM 3210 CONSOLE PRINTER-KEYBOARDS

This publication describes the physical and functional characteristics of the IBM 3210 Console Printer-Keyboards. The purpose of each of the control keys and indicator lights supplementing the keyboard is included.

For additional information on forms specifications, refer to FORM-DESIGN CONSIDERATIONS--SYSTEM PRINTERS, GA24-3488.

For additional information on 3210 operating procedures, refer to IBM SYSTEM/370 MODEL 145 OPERATING PROCEDURES, GA24-3554.

GA24-3557

IBM SYSTEM/370 MODEL 145 FUNCTIONAL CHARACTERISTICS

This publication describes the relationship of the Model 145 to other System/370 models and to System/360. Included is information concerning the system features and capabilities, console file, input/output channels, integrated file adapter, OS/DOS compatibility, IBM 1401, 1440, 1460, 1470, and 7010 emulation features, console printer-keyboard, additional instructions, and instruction timings.

The following IBM manuals offer information to assist the reader:

- SYSTEM/370 MODEL 145 OPERATING PROCEDURES, GA24-3554.
- SYSTEM/370 PRINCIPLES OF OPERATION, GA22-7000.
- SYSTEM/370 SYSTEM SUMMARY, GA22-7001.
- SYSTEM/370 INPUT/OUTPUT CONFIGURATOR, GA22-7002.
- SYSTEM/360/370 BIBLIOGRAPHY, GA22-6822.
- SYSTEM/360 PRINCIPLES OF OPERATION, GA22-6821.
- SYSTEM/360 COMPONENT DESCRIPTIONS,
- IBM 2314 DIRECT ACCESS STORAGE FACILITY AND
- IBM 2844 AUXILIARY STORAGE CONTROL, GA26-3599.
- SYSTEM/360 I/O INTERFACE - CHANNEL TO CONTROL UNIT ORIGINAL EQUIPMENT MANUFACTURERS' INFORMATION, GA22-6843.
- SYSTEM/360 DIRECT CONTROL AND EXTERNAL INTERRUPT

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FEATURE, ORIGINAL EQUIPMENT MANUFACTURERS' INFORMATION, GA22-6845.

SYSTEM/360 OS PROGRAM PLANNING GUIDE FOR THE DOS EMULATOR ON THE SYSTEM/370, GC24-5076.

3210 CONSOLE PRINTER-KEYBOARD MODEL 2 COMPONENT DESCRIPTION, GA24-3552.

3215 CONSOLE PRINTER-KEYBOARD MODEL 1 COMPONENT DESCRIPTION, GA24-3550.

FORMS DESIGN CONSIDERATIONS--SYSTEM PRINTERS, GA24-3488.

timings, and 1052 Printer-Keyboard characteristics.

The reader can find a more detailed description of System/360 operations in IBM System/360 Principles of Operation (GA24-6822). The interrelationships of the models and units available with System/360 are broadly described in IBM/360 System Summary (GA24-6810). Other related literature is listed by order reference number and briefly described in IBM System/360 Bibliography (GA22-6822). Information on channel load limits for IBM System/360 Model 22 is given in IBM System/360 Model 22 Channel Characteristics and Functional Evaluation (GA24-3579).

GA24-3561

IBM 1925 MODEL 18 INTERFACE SWITCH UNIT RPO 811301 INSTALLATION MANUAL--PHYSICAL PLANNING

This publication provides physical planning information for the IBM 1925 Model 18 Interface Switch Unit used with the IBM System/360 and the IBM System/370. Included are physical specifications and cable, electrical, and environmental requirements.

For a list of related publications and abstracts, see the IBM SYSTEM/360 AND SYSTEM/370 BIBLIOGRAPHY, GA22-6822.

GA24-3573

IBM SYSTEM/370 MODEL 145 CHANNEL CHARACTERISTICS

This publication describes methods used to calculate System/370 Model 145 data-handling capabilities that are dependent upon I/O-channel configurations and operations. Considerations of methods are also presented for priority attachment of I/O devices for maximum throughput.

Information related to specific I/O devices is in separate Systems Reference Library publications. These publications are listed by order number and briefly described in IBM SYSTEM/360 AND SYSTEM/370 BIBLIOGRAPHY (GA22-6822).

This manual is intended for users at the system programmer level; it assumes a thorough background in I/O programming techniques.

GA24-3562

IBM 2911 MODEL 14 INTERFACE SWITCH UNIT RPO 811503 INSTALLATION MANUAL--PHYSICAL PLANNING

This publication provides physical planning information for the IBM 2911 Model 14 Interface Switch Unit used with the IBM System/360 and the IBM System/370. Included are physical specifications and cable, electrical, and environmental requirements.

For a list of related publications and abstracts, see the IBM SYSTEM/360 AND SYSTEM/370 BIBLIOGRAPHY, GA22-6822.

GA24-3574

IBM SYSTEM/360 MODEL 22 OPERATOR'S GUIDE

This manual contains reference material and operating procedures required to operate the IBM System/360 Model 22 Processing Unit and the Integrated 1052 Printer-Keyboard.

The intended audience is an operator who is assumed to have a basic knowledge of System/360.

The first section describes lights, switches, and keys on the console in detail. The second section contains the general operating procedures needed by the operator to run the system. Thirdly, a section is provided for normal printer-keyboard operation.

Order numbers for manuals containing operating procedures for individual input/output devices can be found in the IBM System/360 Bibliography, GA22-6822.

GA24-3564

IBM SYSTEM/360 MODEL 30 STORAGE EXPANSION FEATURE MANUAL: RPO'S EA3807, EA1527, OR RPO'S Y91203 AND Y91325 (WORLD TRADE)

This reference publication contains information for the system analyst, system programmer, and system operator about the Storage Expansion feature for the IBM System/360 Model 30. The Storage Expansion feature increases the Model 30 program storage size from 64K bytes (65,536 bytes) to 96K bytes (98,304 bytes). Contents of this publication include:

Description of the Storage Expansion feature, its prerequisites, and limitations of other features  
Description of the changes the feature makes to the Model 30 in the areas of:

- Instruction timing
- Local storage
- Multiplexer channel UCW's
- Channel characteristics
- Console panel and operations

This manual is used as a supplement to the following System/360 publications:

IBM System/360 Model 30 functional characteristics (GA24-3231)  
IBM SYSTEM/360 MODEL 30 OPERATING GUIDE (GA24-3373)

GA24-3579

IBM SYSTEM/360 MODEL 22 CHANNEL CHARACTERISTICS AND FUNCTIONAL EVALUATION - SYSTEMS LIBRARY MANUAL

This reference publication describes methods used to calculate System/360 Model 22 data-handling capabilities that are dependent upon I/O channel configurations and operations. Consideration of methods are also presented for:

- o Priority I/O-unit attachment for maximum throughput
- o Addressing I/O devices
- o Calculating buffer transfer times
- o Calculating interference (with the processing unit) caused by channel operations.

This publication is intended for use by persons calculating the channel loads for a Model 22. The user should have an understanding of mathematics and be thoroughly familiar with I/O programming considerations as described in IBM System/360 Principles of Operation (GA22-6821). Information related to specific I/O devices is contained in separate publications listed in IBM System/360 and System/370 Bibliography (GA22-6822).

When performing loading calculations related to the multiplexed channel operating in multiplex mode, the Multiplexer Channel Worksheet is used. If the IBM 2702 Communications Control is involved, the 2702 Worksheet is used. Reproducible copies of these worksheets are located in an appendix to this publication.

GA24-3566

IBM 1972 MODEL 3 PRODUCTION TERMINAL  
IBM 1972 MODEL 4 INSTRUCTION CONSOLE INSTALLATION MANUAL  
PHYSICAL PLANNING COMPONENT DESCRIPTION

This manual contains physical planning information and component descriptions for the IBM 1972 Model 3 Production Terminal and the IBM 1972 Model 4 Instruction Console. The specific topics covered include:

- o Power Requirements
- o Environmental Considerations
- o Interface Considerations
- o Floor Area and Loading Considerations
- o Servicing and Access Requirements
- o Safety Considerations
- o Transportation Requirements
- o Physical Characteristics

The manual is intended to assist users in their work station production planning and in preparation of installation areas prior to delivery of the units.

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GA24-3590

IBM 1972 MODEL 3 PRODUCTION TERMINAL 1972 MODEL 4 INSTRUCTION CONSOLE OPERATOR'S GUIDE

This manual contains information for operating the IBM 1972 Model 3 Production Terminal and the IBM 1972 Model 4 Instruction Console. The specific operating information includes:

- o Functional description of operating controls
- o Information on preparing, programming, punching, and splicing perforated tapes
- o Instructions for loading perforated tape in production terminal and for operating the production terminal.

This information is presented to aid the user in the operation of the production terminal and the instruction console and in the preparation of perforated tapes for use on the production terminal.

GA24-3572

IBM SYSTEM/360 MODEL 22 FUNCTIONAL CHARACTERISTICS SYSTEMS MANUAL

This reference publication is intended for use by systems analysts or personnel involved in planning system configurations. The publication presents an introduction to some of the important IBM System/360 concepts and terminology as they are related to the Model 22. The concepts include program status words, supervisor program, and interrupts related to input/output operations. It also includes information on input/output channels, unit addressing, unit priorities on the channels, instruction

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GA24-3594

**RCA 301 EMULATOR ON SYSTEM/370 USING DOS -- PLANNING GUIDE**

This publication describes the RCA 301 Emulator, an integrated emulator program, for the IBM System/370 Model 135 or 145. Also provided are introductory and planning information for management and planning personnel.

The emulator is a problem program that operates in either a batched-job foreground or the background partition under control of the IBM Disk Operating System. The emulator uses the System/370 standard instruction set, the RCA 301 Compatibility feature, and the data management facilities of the Disk Operating System to emulate the RCA 301 processor unit, input/output, and console operations. Publications useful as reference material are:

IBM System/360 Principles of Operations,  
 Order Number GA22-6821

This publication describes the RCA 301 Emulator, an integrated emulator program, for the IBM System/370 Model 135 or 145. Also provided are introductory and planning information for management and planning personnel.

The emulator is a problem program that operates in either a batched-job foreground or the background partition under control of the IBM Disk Operating System. The emulator uses the System/370 standard instruction set, the RCA 301 Compatibility feature, and the data management facilities of the Disk Operating System to emulate the RCA 301 processor unit, input/output, and console operations. Publications useful as reference material are:

IBM System/360 Principles of Operations,  
 Order Number GA22-6821

IBM System/370 Principles of Operation, GA22-7000  
 For information about the Disk Operating System refer to:  
 System/360 and System/370 Bibliography, GA22-6822.

GA24-3595 see page 228

GA26-1582

**IBM 2973 MODEL 2 FILE SWITCH INSTALLATION MANUAL - PHYSICAL PLANNING RPQ F13209**

This publication provides physical planning information for the IBM 2973 Model 2 File Switch when used with IBM System/360. Included are physical specifications and cable, electrical, and environmental requirements.

The following publications provide additional information for System/360 physical planning.

IBM SYSTEM/360 INSTALLATION MANUAL - PHYSICAL PLANNING,  
 Order Number GC22-6820

IBM SYSTEM/360 INSTALLATION MANUAL WORLD TRADE 50  
 Cycle - Physical Planning Requirements, Order Number  
 GC19-0001.

GA26-1583

**IBM SYSTEM/360 CUSTOM FEATURE DESCRIPTION - 2973 MODEL 2 FILE SWITCH RPQ F13209**

This publication contains reference information for the operation and programming of storage devices that attach to the IBM 2973 Model 2 File Switch. In addition, it contains a list of prerequisite RPQ's and special features necessary for the attachment of a 2973 Model 2 to a System/360.

The following System Reference Library publications provide detailed System/360 programming information applicable to the 2973 Model 2 operations:

IBM System/360 Principles of Operation, (GA22-6821)

IBM SYSTEM/360 COMPONENT DESCRIPTIONS - DASD FOR 2841, Order Number GA26-5988

IBM SYSTEM/360 MODEL 25 FUNCTIONAL CHARACTERISTICS,  
 Order Number GA24-3510

GA26-1589

**COMPONENT SUMMARY-2835 STORAGE CONTROL 2305 FIXED HEAD STORAGE**

This publication contains basic information about the IBM 2835 Storage Control, Models 1 and 2, and the IBM 2305 Fixed Head Storage, Models 1 and 2.

The 2835 is designed for attachment to IBM System/360's and System/370's that include either the IBM 2880 Block Multiplexer Channel or channels with equivalent characteristics.

This publication outlines the major functions of the facility and provides a general description of standard functions, such as multiple requesting, rotational position sensing, and alternate track sparing. The two-channel switch, a special feature, is also described.

It is assumed that the reader of this publication has a general understanding of direct access storage concepts and is familiar with the central processing unit and channel program control operations as described in IBM SYSTEM/360 PRINCIPLES OF OPERATION, Order No. GA22-6821, or IBM SYSTEM/370 PRINCIPLES OF OPERATION, order No. GA22-7000.

GA26-1592

**REFERENCE MANUAL FOR IBM 2820 STORAGE CONTROL AND IBM 3330 DISK STORAGE - SYSTEMS REFERENCE LIBRARY**

For experienced programmers, this manual provides readily accessible reference material related to channel command words, sense bytes, track format, track capacities, and

error recovery. Less experienced programmers will find sufficient information to create channel programs to best utilize the standard and special features of the 3830/3330 facility. A complete description of the switches and indicators, and procedures for loading and unloading disk packs is provided for systems installation operators.

Programmers should be familiar with the information contained in IBM System/360 Principles of Operation, Order No. GA22-6821, and IBM System/370 Principles of Operation, Order No. GA22-7000. Operators should be familiar with the material presented in the system summary for the parent system. Order numbers for system summary and other related publications can be found in IBM System/360 and System/370 Bibliography, Order No. GA22-6822.

GA26-1593

**IBM 2968 MODEL 11 AUDIO/VISUAL CONTROL: COMPONENT DESCRIPTION AND OPERATING PROCEDURES RPQ F30209**

This manual explains the characteristics, functions, features, physical planning, and operating procedures for the IBM 2968 Model 11 Audio/Visual Control. The manual also describes the various types of equipment and configurations for an audio/visual presentation, the preparation of the slides for the projector, the preparation of audio tape for the tape recorder, and guidelines for selecting a viewing screen for the projector.

A basic knowledge of the IBM 2740 Communications Terminal is assumed.

GA26-1599

**IBM 2730 MODEL 1 TRANSACTION VALIDATION TERMINAL, IBM 2968 MODEL 9 AND MODEL 12 RECEIVER-TERMINAL CONTROL UNIT**

The IBM 2730 Model 1 Transaction Validation Terminal, IBM 2968 Model 9 and IBM 2968 Model 12 Receiver-Terminal Control Unit are part of an on-line credit authorization system. This manual describes the function of these devices in the system configuration, and provides typical operating procedures for the 2730 Model 1 and its acoustic coupler. The Appendix contains specifications for magnetic stripe credit cards.

A basic knowledge of data processing, including teleprocessing, is required to understand the material presented in this manual.

GA26-1600

**2730 MODEL 1, 2968 MODEL 9, AND 2968 MODEL 12: INSTALLATION MANUAL - PHYSICAL PLANNING**

No abstract available.

GA26-1606

**IBM 2319 DISK STORAGE - A-SERIES. COMPONENT DESCRIPTION**

This manual contains basic information about the IBM 2319 Disk Storage Models A1 and A2. Model A1 is designed for attachment to IBM System/370 via the Integrated File Adapter (IFA) feature.

The IBM 2319 Models B1 and B2 are described in the publication IBM SYSTEM/360 COMPONENT DESCRIPTIONS--2314 DIRECT ACCESS STORAGE FACILITY AND 2844 AUXILIARY STORAGE CONTROL, Order No. GA26-3599, with which the reader should be familiar.

GA26-3599

**IBM SYSTEM/360 COMPONENT DESCRIPTIONS - 2314 DIRECT ACCESS STORAGE FACILITY AND 2844 AUXILIARY STORAGE CONTROL**

This publication describes the IBM 2314 Direct Access Storage Facility and the IBM 2844 Auxiliary Storage Control, and presents functional and operating characteristics for these devices. Capacities, timing considerations, commands, operating procedures, and sense and status information are described. The user of this publication should be thoroughly familiar with the I/O programming considerations described in IBM System/360 Principles of Operation, Order Number GA22-6821.

GA26-3633

**DATA CELL HANDLING GUIDE**

This manual provides suggested operating and handling procedures for the IBM 3021 Data Cell used with the IBM 2321 Data Cell Drive.

GA26-3699

**IBM 1971-1980 CUSTOM TERMINAL FUNCTIONAL CHARACTERISTICS, OPERATING PROCEDURES, AND PHYSICAL PLANNING**

This manual describes the operations, controls, and special features of the IBM 1971 Buffered Terminal Control (Models 30 and 35) and the IBM 1980 Buffered Terminal (Models 9 and 12). The communications facilities that can be used with this Tele-processing terminal are described. Appendixes, containing the physical planning specifications, RPQ numbers, a glossary of terms, and general typewriter maintenance, are provided.

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- GA26-5714  
IBM 2314/2844 MULTIPLEX STORAGE CONTROL FEATURE - AIRLINES BUFFER  
This publication describes the IBM 2314/2844 Multiplex Storage Control Feature (RFQ number S50001). This feature allows the 2314/2844 to operate in its basic mode or in multiplex mode. This publication describes all of the commands and operations that can be performed in multiplex mode. For a description of 2314/2844 basic mode operations, refer to the Systems Reference Library publication IBM SYSTEM/360 COMPONENT DESCRIPTIONS -- 2314 DIRECT ACCESS Storage Facility and 2844 Auxiliary Storage Control (Order Number GA26-3599).
- GA26-5756  
IBM DISK PACK AND CARTRIDGE HANDLING PROCEDURES  
This manual is a guide for handling IBM Disk Packs and Cartridges. The information contained in this manual applies to IBM 1316 and 2316 Disk Packs and 2315 Disk Cartridges.
- GA26-5988  
IBM SYSTEM/360 COMPONENT DESCRIPTIONS--2841 AND ASSOCIATED DASD  
2311 DISK STORAGE DRIVE MODEL 1, 2321 DATA CELL DRIVE, 2302 DRUM STORAGE  
This publication contains reference information for the operation and programming of storage devices which attach to the IBM 2841 Storage Control. These storage devices include the IBM 2311 Disk Storage Drive, Model 1; the IBM 2302 Disk Storage, Models 3 and 4; and IBM 2321 Data Cell Drive; and the IBM 2303 Drum Storage.
- GA26-5993  
IBM SYSTEM/360 CUSTOM FEATURE, 2972 LINE CONTROL UNIT, MODEL 1  
This publication presents a description of the operation of the IBM 2972 Line Control Unit, Model 1. A sample configuration and a description of operation sequence are included.
- GA27-2700  
IBM SYSTEM/360 COMPONENT DESCRIPTION:  
IBM 2260 DISPLAY STATION  
IBM 2848 DISPLAY CONTROL  
This manual describes the functional and operating characteristics of the IBM 2260 Display Station and the IBM 2848 Display Control Unit.  
The reader needs a general understanding of computers and their applications; however, knowledge of teleprocessing principles and programs is required by those who install communications terminals.
- GA27-2701  
IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2250 DISPLAY UNIT MODEL 1  
This publication contains detailed information on programming, operation, and special features of the IBM 2250 Display Unit Model 1. The material is presented with the assumption that the reader has read the IBM SYSTEM/360 Principles of Operation Manual, Order Number GA22-6821.
- GA27-2702  
IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2250 DISPLAY UNIT MODEL 2 IBM 2840 DISPLAY CONTROL MODEL 1  
This document presents detailed information about IBM 2250 Display Unit Model 2/IBM 2840 Display Control Model 1 programming, operation, and special features. The material is presented with the assumption that the reader has read the IBM System/360 Principles of Operation Manual, Order Number GA22-6821.
- GA27-2703  
IBM 2703 TRANSMISSION CONTROL COMPONENT DESCRIPTION  
This publication provides a detailed description of the capabilities, features, and communication facilities required for the IBM 2703 Transmission Control Unit. The capabilities of the unit are grouped by: start-stop capabilities; and binary-synchronous capabilities. All items of a general nature are discussed in the section, "Detailed Description of Operations".  
The operator's controls and a detailed description of the communication facilities to which the 2703 can be attached are contained in the Appendix.
- GA27-2704  
IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2711 LINE ADAPTER UNIT  
This manual describes the operation of the IBM 2711 Line Adapter Unit. Included is a general description of the 2711, the line adapters that can be contained in a 2711,
- the communication facilities that can be used with the 2711, and the operator tests that can be performed to isolate equipment malfunctions.
- GA27-2710  
IBM 7772 AUDIO RESPONSE UNIT VOCABULARY  
This publication contains a complete listing of the 7772 vocabulary.
- GA27-2711  
IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 7772 AUDIO RESPONSE UNIT  
This manual describes the functional and operational characteristics of the IBM 7772 Audio Response Unit. Topics include vocabulary selection, system attachment considerations, communications requirements, and programming considerations.
- GA27-2712  
COMPONENT DESCRIPTION: IBM 7770 AUDIO RESPONSE UNIT MODEL 3  
MODEL 1, 2, AND 3  
This publication describes the functional and operational characteristics of the IBM 7770 Audio Response Unit (Models 3). Topics discussed include vocabulary selection, communications requirements, system attachment considerations, and programming considerations.
- GA27-2713  
IBM SYSTEM/360 MODEL 67 CONFIGURATOR  
This publication presents a graphic representation of IBM System/360 MODELS 67-1 AND 67-2. Attachment capabilities and standard and special feature capabilities are noted. The material in this publication is presented with the assumption that the reader has knowledge of System/360 and of the Model 67, as defined in the IBM System/360 Model 67 functional characteristics, (GA27-2719), the IBM System/360 Principles of Operation, (GA22-6821), and the IBM System/360 System Summary, (GA22-6810).
- GA27-2715  
IBM SYSTEM/360 SPECIAL FEATURE DESCRIPTION  
709/7040/7044/7090/7094/7094 II COMPATIBILITY FEATURE FOR  
SYSTEM/360 MODELS 65 AND 67  
This publication contains information about the IBM 7090 Compatibility Feature (#7119). The Compatibility Feature adds interpretive facilities to IBM System/360 Models 65 and 67 for use by the IBM 7090 Emulator Program. The combination of the feature and the program, referred to as the 7090 Emulator, allows execution on IBM System/360 Models 65 and 67 of programs written for the IBM 709, 7040, 7044, 7090, 7094, and 7094II.
- GA27-2716  
IBM SYSTEM/360 SPECIAL FEATURE DESCRIPTION 7080  
COMPATIBILITY FEATURE FOR SYSTEM/360 MODEL 65  
This publication presents a detailed description of the IBM 7080 Compatibility Feature #7118. The Compatibility Feature adds interpretive facilities to System/360 for use by the IBM 7080 Emulator Program, Program No. 360C-EU-727. This combination of feature and program, referred to as the IBM 7080 Emulator, permits an IBM System/360 Model 65 to execute programs written for an IBM 7080 Data Processing System.
- GA27-2717  
IBM SYSTEM/360 SPECIAL FEATURE DESCRIPTION 7074  
COMPATIBILITY FEATURE FOR SYSTEM/360 MODELS 50 AND 65  
This publication contains information about the IBM 7070/7074 Compatibility Feature. The Compatibility Feature adds interpretive facilities to System/360 Model 50 or 65 for use by the IBM 7074 emulator program. The combination of the feature and the program, referred to as the 7074 Emulator, allows execution on IBM System/360 Models 50 and 65 of programs written for the IBM 7070 and 7074.
- GA27-2719  
IBM SYSTEM/360 MODEL 67 FUNCTIONAL CHARACTERISTICS  
This publication contains detailed information on the organization, characteristics, features, and functions unique to the IBM System/360 Model 67 Time Sharing System. Major areas described include time-sharing philosophy, system structure, new units, generalized information flow, standard and special features, instruction timings, and the system control panel.  
Descriptions of specific input/output devices used with the Model 67 appear in separate publications. See the IBM System/360 Bibliography, (GA22-6822) for a listing and a brief description of these publications.  
The material in this publication is presented with the assumption that the reader has knowledge of System/360 as defined in the IBM System/360 Principles of Operation,

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GA22-6821 and the IBM System/360 System Summary GA22-6810.  
A22-6810.

GA27-2721

IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2250 DISPLAY UNIT MODEL 3 IBM 2840 DISPLAY CONTROL MODEL 2  
This document presents detailed information about IBM 2250 Display Unit Model 3/IBM 2840 Display Control Model 2 programming, operation, and special features. The material is presented with the assumption that the reader has read the IBM System/360 Principles of Operation Manual, Order Number GA22-6821.

GA27-2724

IBM SYSTEM/360 CUSTOM SYSTEMS UNIT 2916 LONG LINE ADAPTER, MODELS 3 AND 4 INSTALLATION BULLETIN - PHYSICAL PLANNING  
This bulletin contains all the necessary physical planning data required for the installation of the unit described. If the unit is to be installed in conjunction with a computer system, the specifications of the most critical unit must be met. The data follows the same format and utilizes the same standardized symbols as used in the IBM System/360 Installation Manual - Physical Planning, Order Number GC22-6820.

GA27-2725

IBM 50 MAGNETIC DATA INSCRIBER COMPONENT DESCRIPTION  
This manual describes the functional and operating characteristics of the IBM 50 Magnetic Data Inscriber. The IBM 50 Magnetic Data Inscriber is a key-operated device that records data on cartridge-contained magnetic tape. Each IBM 50 generated tape can be used as a data storage medium or as a vehicle for entering data into an IBM System/360, via the IBM 2495 Tape Cartridge Reader. In addition to its data recording capability, the IBM 50 can also be used to verify data stored on tapes generated on the same or other IBM 50's.

GA27-2726

IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2495 TAPE CARTRIDGE READER  
This manual describes the functional and operating characteristics of the IBM 2495 Tape Cartridge Reader (TCR). The IBM 2495 TCR is used to transfer data stored on cartridge-contained 16mm magnetic tape to an IBM System/360. The TCR accepts cartridge tapes containing data generated on either the IBM 50 Magnetic Data Inscriber or the IBM Magnetic ape Selectric Typewriter System.

GA27-2727

IBM SYSTEM/360 CUSTOM SYSTEMS UNIT 2909 MODEL 3 - ASYNCHRONOUS DATA CHANNEL RPO F13299 RPO 882045 INSTALLATION BULLETIN-PHYSICAL PLANNING  
This bulletin contains all the necessary physical planning data required for the installation of the unit described. If the unit is to be installed in conjunction with a computer system, the specifications of the most critical unit must be met. This bulletin utilizes the same format and standardized symbols contained in the IBM SYSTEM/360 Installation Manual - Physical Planning, Order Number GC22-6820.

GA27-2728

IBM SYSTEM/360 MODEL 65 OPERATING PROCEDURES  
This manual describes operator procedures for an IBM 2065 Processing Unit, operating with or without an associated IBM 1052 Printer-Keybaord. Also described are system control panel machine functions, machine procedures, program-oriented procedures, and operator-intervention procedures. An appendix of reference material and an index are included.  
The reader is assumed to have a knowledge of the following SRL publications:  
IBM System/360 Principles of Operation (GA22-6821). (sections on "System Structure" and "System Control Panel")  
IBM SYSTEM/360 MODEL 65 FUNCTIONAL CHARACTERISTICS, Order Number GA22-6884.  
IBM SYSTEM/360 TAPE OPERATING SYSTEM OPERATING GUIDE, Order Number GC24-5021  
IBM SYSTEM/360 DISK OPERATING SYSTEM OPERATING GUIDE, Order Number GC24-5022  
IBM SYSTEM/360 OPERATING SYSTEM OPERATOR'S GUIDE, Order Number GC28-6540  
For information pertaining to the operation of I/O units that are attachable to the System/ 360 Model 65 refer to the appropriate SRL publication.

GA27-2729

IBM SYSTEM/360 CUSTOM SYSTEMS UNIT 2972 MODEL 7 SCIENTIFIC INTERFACE CONTROL UNIT RPO E46181 INSTALLATION BULLETIN - PHYSICAL PLANNING  
This bulletin contains all the necessary physical planning

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data required for the installation of the unit described. If the unit is to be installed in conjunction with a computer system, the specifications of the most critical unit must be met. This bulletin utilizes the same format and standardized symbols contained in the IBM SYSTEM/360 Installation Manual - Physical Planning, Order Number GC22-6820.

GA27-2730

COMPONENT DESCRIPTION IBM 2285 DISPLAY COPIER  
This publication presents a functional description of, and operator procedures for, the IBM 2285 Display Copier. Each 2285 attaches directly to an IBM 2250 Display Unit Model 1, 3, or 4 that is equipped with an attachment feature. The 2285 provides an 8-1/2-by-11-inch paper copy output of the associated 2250 display upon initiation by the 2250 operator. The 2285 obtains analog signals and power from the 2250 to which it is attached and requires no programming. The following publications may be of interest to the reader:  
IBM SYSTEM/360 COMPONENT DESCRIPTION: IBM 2250 DISPLAY Unit Model 1, Order Number GA27-2701  
IBM SYSTEM/360 COMPONENT DESCRIPTION: IBM 2250 DISPLAY UNIT MODEL 3, IBM 2840 DISPLAY CONTROL MODEL 2, Order Number GA27-2721  
IBM 1130 SYSTEM COMPONENT DESCRIPTION: IBM 2250 DISPLAY Unit Model 4, Order Number GA27-2723.

GA27-2731

IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2285 DISPLAY STATION IBM 2845 DISPLAY CONTROL  
This manual describes the functional and operating characteristics of the IBM 2285 Display Station and the IBM 2845 Display Control. The two units combine to form a display system that provides visual access to data stored in an IBM System/360.

GA27-2733

IBM SYSTEM/360 SPECIAL FEATURE DESCRIPTION 709/7090/7094/7094 II COMPATIBILITY FEATURE FOR IBM SYSTEM/360 MODEL 85  
This publication contains information about the IBM 7094 Compatibility Feature (#7119). The Compatibility Feature adds interpretive facilities to IBM System/360 Model 85 for use by the IBM 7094 Emulator Program. The combination of the feature and the program, referred to as the 7094 Emulator, allows execution (on IBM System/360 Model 85) of programs written for the IBM 709, 7090, 7094, and 7094II.

GA27-2737

IBM 2909-3 ASYNCHRONOUS DATA CHANNEL RPO F13299 CUSTOM FEATURE DESCRIPTION  
This manual describes the functional and operational characteristics of the 2909-3 Asynchronous Data Channel. Main Topics described include: instruction and command execution, programming operation, and subchannel attachment. This publication is a reference manual for the programmer or systems engineer. Knowledge of IBM System/360 operations, particularly storage addressing, data formats, and machine instruction formats as explained in IBM SYSTEM/360 PRINCIPLES OF OPERATION SRL, Form GA22-6821, is a prerequisite to using this publication. Also needed are experience with programming concepts and techniques or completion of basic courses of instruction in these areas.

GA27-2739

AN INTRODUCTION TO THE IBM 3270 INFORMATION DISPLAY SYSTEM  
No abstract available.

GA27-2740

IBM 7412 MODEL 1 CONSOLE, CUSTOM SYSTEMS RPO AA2846, CUSTOM FEATURE DESCRIPTION  
This reference manual describes the functional characteristics and features of the IBM 7412-1 Console with the IBM 3215-1 Console Printer-Keybaord. This publication is intended for System Analysts, Programmers, and operators. Assumed is a background knowledge of the IBM System/360 and System/370, and of the I/O Interface.

GA27-2741

INSTALLATION BULLETIN PHYSICAL PLANNING FOR IBM 7412 CONSOLE MODEL 1 CUSTOM SYSTEMS RPO AA2846  
This publication provides physical planning information for the IBM 7412-1 Console with the IBM 3215-1 Console Keyboard. Included are physical specifications and cable, electrical, and environmental requirements.

GA27-2742

OPERATOR'S GUIDE FOR IBM 3270 INFORMATION DISPLAY SYSTEM  
Operator controls, indicators, and keys for all 3270 display station models are discussed in detail, along with typical

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- operating and error recovery procedures. The manual's organization and layout are intended to aid the reader learning to operate the display station, and also to improve the retrievability of information for an operator, using the guide as a reference source. Readers of this manual need no previous knowledge of computers, display stations, or data processing.
- GA27-2749  
IBM 3270 INFORMATION DISPLAY SYSTEM COMPONENT DESCRIPTION SYSTEM LIBRARY MANUAL  
This publication is a reference source for systems analysts and programmers of the IBM 3270 Information Display System. It presents detailed programming, operation and special feature information. The material is presented with the assumption that the reader has read the IBM System/360 Principles of Operation Manual, Form GA22-6821. A variety of configurations permit local or remote attachment to Systems/3, 360, and 370 computer systems. Control units, display stations, and printers form a complex that provide operator input to as well displayed and printed output from computer-stored data.
- GA27-2750 \*N  
IBM 3270 PROBLEM DETERMINATION GUIDE - SYSTEM LIBRARY MANUAL  
This manual is to be used by operators and supervisors to determine the nature of a problem on the IBM 3270 system.
- GA27-3011  
IBM 2760 OPTICAL IMAGE UNIT COMPONENT DESCRIPTION  
This Component Description Manual describes the principles of operation of the IBM 2760 Optical Image Unit when attached to an IBM 2740 Communications Terminal, Model 1. Line-control signals, message formats, special features, communication facilities, and data sets that can be used with this Tele-processing terminal are also discussed. A major section concerning the preparation of artwork and the photographic procedures involved in creating a filmstrip for use in this unit will be found toward the end of the manual.
- GA27-3029  
2721 PORTABLE AUDIO TERMINAL  
This manual is designed to acquaint the reader with the basic concepts and use of the IBM 2721 Portable Audio Terminal. The publication should be used as a general guideline for useful application of the terminal. Functional and operational characteristics are discussed in detail, and no previous reading is required for an understanding of how the terminal operates as a remote input/output device. The operation of the 2721 terminal in a systems environment depends largely on how the user's program is written; therefore, the operating procedures outlined in this manual are of a general nature. The ultimate operation of the terminal depends upon the programmer's ingenuity and the applications involved.
- GA27-3039  
IBM 2721 PORTABLE AUDIO TERMINAL OPERATOR'S HANDBOOK  
This manual provides instructions for installing and operating the IBM 2721 Portable Audio Terminal. A section on problem determination is provided to assist the operator in deciding if the terminal requires maintenance.  
For more detailed information on the functions and operation of the terminal, refer to the Systems Reference Library Manual, Component Description: IBM 2721 Portable Audio Terminal, GA27-3029.
- GA27-3040  
CUSTOM UNIT DESCRIPTION - 1970-1 REMOTE AUDIO RESPONSE UNIT  
This manual gives basic information necessary for understanding the operating principles of the 1970-1. It includes a description of the functional units, vocabulary, communication requirements, terminals, data sets, operating principles, security, line requirements, applications, programming considerations, physical characteristics, and special alphanumeric capabilities.  
The chapter "Programming Considerations" describes only general programming practices. For additional information on programming this unit with the IBM 2701 IPCA feature or Cyclic Checking feature, contact your IBM regional products marketing representative.  
It is written for the systems engineer, systems analysis specialist, or the IBM System/360 programmer who is interested in the functional and operational characteristics of remote audio response units.  
The reader should be familiar with teleprocessing principles and IBM System/360 programming.
- GA27-3041  
IBM 1970 MODEL 1 REMOTE AUDIO RESPONSE UNIT INSTALLATION MANUAL - PHYSICAL PLANNING  
This manual furnishes specific details of the physical characteristics of the IBM 1970 Model 1 Remote Audio Response Unit. Included are dimensions, weights, service clearances, heat output, air flow, and electrical and environmental requirements. Also included is ordering information for the basic machine and available features. Planning assistance is also available from IBM sales and installation planning representatives.
- GA27-3043  
IBM 3735 PROGRAMMABLE BUFFERED TERMINAL CONCEPT AND APPLICATION  
The purpose of this manual is two-fold: first, it introduces the IBM 3735 Programmable Buffered Terminal; and, second it provides planning information for those who may be involved in installing a 3735. Because of this dual purpose, not all sections of the manual may be of interest to each reader. Those interested in an overview and in the highlights of the 3735 will find the Introduction of most value; those who need more detailed information on the terminal's operation and functional capabilities will find the sections on Operating Characteristics and Implementation Considerations of most interest; systems and application programmers will find information on Programming Considerations for the 3735 in Appendix B. Generally, the prerequisites for this manual are an understanding of the concept and application of the IBM System/360 and the IBM System/370 in a teleprocessing environment. The section on Programming Considerations requires more extensive knowledge of the applicable operating system (OS or DOS).  
Although not intended as a terminal operator's guide or as a programmer's guide, the manual presents general information concerning these subjects.
- GA27-3048  
IBM 3670 BROKERAGE COMMUNICATION SYSTEM SYSTEM CONCEPTS AND CONFIGURATOR  
This manual presents the concepts of the IBM 3670 Brokerage Communication System for two types of users. For management and supervisory personnel, it provides an overview of the hardware that includes the purpose, design highlights, and varied applications of the system. For support personnel interested in more detail, it offers a description of individual components, program support, system organization, and data protection.  
It also provides the systems planner with technical information to aid in configuring a system best suited to his needs. Included are a block diagram and a listing of the units, features, and connections that can make up a system.  
Users of this manual should be familiar with the contents of IBM System/360, Introduction to Teleprocessing, GC30-2007, and IBM Teleprocessing System Summary, GA24-3090.
- GA27-3049  
IBM 3670 BROKERAGE COMMUNICATION SYSTEM INSTALLATION MANUAL--PHYSICAL PLANNING  
This manual is to be used as a guide by installation planners preparing to install the IBM 3670 Brokerage Communication System. It provides technical information, recommendations, and suggestions to be used in installation planning, but no attempt has been made to give step-by-step instructions for preparing the site to receive the 3670 system.  
Dimensions, weights, service clearances, physical information for each unit, and environmental and electrical requirements are covered in this manual. Information is also given on cabling, electrical outlets, communication facilities, air conditioning and humidity controls, and environmental safety. The customer's responsibility for planning the installation and preparing the site is discussed.  
Planners should be familiar with the 3670, communications networks, and common-carrier services. They should also be familiar with System Library publication, IBM 3670 Brokerage Communication System, System Concepts and Configurator, GA27-3048.
- GA27-3050  
IBM 3670 BROKERAGE COMMUNICATION SYSTEM COMPONENT DESCRIPTION MANUAL  
The IBM 3670 Brokerage Communication System is a subsystem designed to communicate with a TCAM supported IBM System/360 or IBM System/370. The 3670 consists of a shared terminal control unit and a number of independent applications-oriented input/output devices. The components of the 3670 are:  
IBM 3671 Shared Terminal Control Unit  
IBM 3672 Executive Console  
IBM 3673 Data Display  
IBM 3674 Printer-KeyBoard

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- This manual serves as a reference for the components of the 3670 subsystem. It describes standard and special features, functions, and operating characteristics of the control unit and of each of the attached devices. A separate chapter is devoted to describing each of the four components. This publication is written for the user who is interested in the details of machine function and design. It is intended for the customer systems analyst, the customer systems programmer, the IBM Data Processing systems engineer, the IBM Field Engineering customer engineer for machine maintenance, and the IBM Field Engineering program systems representative. It is not intended to give complete information for system implementation. Users of this manual should be familiar with the contents of IBM 3670 Brokerage Communication System, Concepts and Configurator, GA27-3048. This prerequisite manual offers an introduction to the concepts of the 3670 and also gives configurator information.
- GA27-3051  
**INTRODUCTION TO THE 3705 COMMUNICATIONS CONTROLLER**  
The IBM 3705 Communications Controller is a compatible transmission control unit designed to assume many teleprocessing control functions formerly assigned to a teleprocessing access method. The 3705 is controlled by a program resident in the controller. This publication contains introductory information on the hardware components of the controller and on the programs provided to support it. Any user or potential user of a 3705, including management, programmers, operators, and maintenance personnel, should be familiar with the contents of this manual. The only prerequisite for this manual is an understanding of basic teleprocessing operations.
- GA27-3063  
**COMPONENT INFORMATION FOR THE IBM 3780 DATA COMMUNICATION TERMINAL**  
This manual introduces the IBM 3780 Communication Terminal, designed to transmit and receive data accurately, quickly, and economically in a teleprocessing environment. The terminal's applications, capabilities, and design highlights are discussed, as well as use of the binary synchronous communication, a description of the associated data-link control characters, code structures, and timeouts. The manual also discusses communication facilities, IBM modems, and special features available for this teleprocessing terminal. In-depth information for those who implement customer applications is also included. Readers concerned with the 3780's capabilities and design highlights will find the Introduction, Card Reader, and Printer sections useful, while those needing more detailed information on the terminal's operation and its binary synchronous method of communication should read the Operating Characteristics and Programming Considerations sections. Prerequisites for this manual include an understanding of the IBM System/360 and the IBM System/370 in a teleprocessing environment, together with knowledge of the binary synchronous method of data-link control as outlined in the IBM Systems Reference Library publication, General Information--Binary Synchronous Communications, GA27-3004.
- GA32-0006  
**TAPE SPECIFICATIONS FOR IBM ONE-HALF INCH TAPE DRIVES AT: 556 AND 800 BPI AND 3200 FCI**  
This manual provides the specifications and requirements for magnetic tape to be used on IBM Tape Drives. The specifications are presented in two parts: General information and Tape Properties Essential for IBM Tape Drive Use. The latter section covers minimum properties required for tape use on all IBM Tape Drives.
- GA32-0007  
**COMPONENT DESCRIPTION IBM 2420 MODEL 5 MAGNETIC TAPE UNIT**  
This bulletin describes the characteristics, functions, and features of the IBM 2420 Model 5 Magnetic Tape Unit.
- GA32-0015  
**IBM 3410/3411 MAGNETIC TAPE SUBSYSTEM COMPONENT SUMMARY MANUAL**  
This manual will give potential customers a general introduction to the 3410/3411 Magnetic Tape Subsystem. The manual describes the IBM 3410 Models 1, 2, and 3 Magnetic Tape Units and the IBM 3411 Magnetic Tape Unit and Control.
- GA32-0020  
**3803/3420 MAGNETIC TAPE SUBSYSTEMS**  
This manual describes the IBM 3803 Model 1 Tape Control and the IBM 3420 Models 3, 5, and 7 Magnetic Tape Units. The 3803 Model 1 tape control provides communication between the tape units and the system input/output interface. The 3420 Models 3, 5, and 7 tape units read and write one-half inch magnetic tape at 75, 125, and 200 inches per second respectively. All three basic tape units read and write nine-track, 1,600 bytes per inch (bpi), phase-encoded format. Nine-track, 800 bpi NRZI recording mode is available as a feature on all models. Seven-track, 556/800 bpi NRZI recording mode is an optional feature on all models. A reader should be familiar with IBM SYSTEM/360 I/O INTERFACE, CHANNEL TO CONTROL UNIT, ORIGINAL EQUIPMENT MANUFACTURERS' INFORMATION, Form GA22-6843, and IBM SYSTEM/360 PRINCIPLES OF OPERATION, Form GA22-6821 (sections on input/output operations). System/370 users should also refer to IBM SYSTEM/370 PRINCIPLES OF OPERATION, Form GA22-7000.
- GA33-3005 \*N  
**IBM SYSTEM/370 MODEL 135 FUNCTIONAL CHARACTERISTICS**  
This publication describes the capabilities, features, input/output channels, integrated adapters, and operations of the IBM System/370 Model 135. The information includes the relationship of System/370 Model 135 to the IBM System/360. The publication is intended for users and potential users (such as systems analysts and programmers) of the System/370 Model 135. The reader is assumed to have a working knowledge of IBM System/360 Principles of Operation (GA22-6821), IBM System/370 Principles of Operation (GA22-7000), and IBM System/370 System Summary (GA22-7001).
- GA33-3006  
**IBM SYSTEM/360 MODEL 135 CONFIGURATOR - SYSTEMS LIBRARY PUBLICATION**  
This is a single-sheet, foldout publication that summarizes the Model 135 features and their prerequisites and limitations. Control storage requirements for different feature combinations are listed. The reverse side of the sheet is devoted to the subfeatures that are required in the integrated communications adapter (ICA) for use with start/stop, display, and binary synchronous type remote terminals.
- GA33-3007 see page 228
- GA33-3008  
**IBM SYSTEM/370 MODEL 135 - TERMINAL ADAPTER TYPE III, FOR INTEGRATED COMMUNICATIONS ADAPTER: SPECIAL FEATURE DESCRIPTION MANUAL**  
This manual provides information for writing channel programs for the Terminal Adapter Type III subfeature in the integrated communications adapter (ICA) base feature of the IBM System/370 Model 135. The manual is intended for applications programmers who use assembler language and who are familiar with input/output programming as described in IBM System/360 Principles of Operation (GA22-6821) and IBM System/370 Principles of Operation (GA22-7000). The Terminal Adapter Type III subfeature allows the Model 135 to communicate with remotely sited IBM 2260 or 2265 Display Stations, via IBM 2848 or 2845 Display Controls, respectively. The first section of the manual outlines the relationship of the ICA to the CPU main storage and to the external communication link. Subsequent sections give details of transmission codes, methods of error detection, special characters, commands, status and sense information, and communication procedures.
- GA33-3009  
**IBM SYSTEM/370 MODEL 135 SYNCHRONOUS DATA ADAPTER TYPE II, (FOR ICA): SPECIAL FEATURE DESCRIPTION SYSTEM LIBRARY MANUAL**  
This manual provides reference information for programmers writing channel programs for the Synchronous Data Adapter Type II subfeature in the Integrated Communication Adapter (ICA) feature of the IBM System/370 Model 135. The Synchronous Data Adapter Type II subfeature allows the Model 135 to communicate with other processing systems and terminals that operate under binary synchronous communications procedures. The manual is intended for applications programmers who use assembler language and who are familiar with input/output programming as described in IBM System/360 Principles of Operation (GA22-6821) and IBM System/370 Principles of Operation (GA22-7000). The reader should also be familiar with the basic principles of binary synchronous communications, such as is given in General Information - Binary Synchronous Communications (GA27-3004). The first section of the manual outlines the relationship of the ICA to the CPU main storage and to the external communication link; the second section summarizes

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- the principles of binary synchronous communications. Subsequent sections give details of the transmission codes used in the Synchronous Data Adapter Type II, the error detection methods used, control characters, commands, status and sense information, and operations of the adapter.
- GA33-3010  
IBM SYSTEM/370 MODEL 135 CHANNEL CHARACTERISTICS SYSTEM LIBRARY MANUAL  
This manual provides information needed for checking that a proposed configuration of I/O devices on the channels of IBM System/370 will work satisfactorily. The book is intended for use in systems assurance work at the planning stage. Procedures with examples are given for testing the effects of imposing heavy loads on the Model 135 channels. The effects covered are: data overrun, loss of device performance, channel interference with the CPU, program overrun, and excessive channel utilization. Additional but related topics covered in the book are: (1) priority sequence of devices on the byte-multiplexer channel (with examples that include the 1419 Magnetic Character Reader with expanded capability); (2) the effects of clock-multiplexing on channel busy time and percentage channel utilization; and (3) channel programming conventions, upon which the validity of test procedures in the book is based. Prerequisite Publications The reader must be familiar with System/370 input/output operations as presented in:  
IBM System/360 Principles of Operation GA22-6821  
IBM System/370 Principles of Operation GA22-7000  
IBM System/370 Model 135 Functional Characteristics GA33-3005  
IBM System/360 and System/370 Interface Channel Unit Original Equipment Manufacturers Information GA22-6974.  
For testing data overrun on the byte-multiplexer channel, the following special worksheet is required: IBM System/370 Model 135 Byte-Multiplexer Channel: Load Sun Worksheet GX33-6004.
- GA33-4500  
IBM SYSTEM/360 COMPONENT DESCRIPTIONS - 2826 PAPER TAPE CONTROL UNIT 1017 PAPER TAPE READER 1018 PAPER TAPE PUNCH  
This publication describes the above named paper tape input/output components for the reading and punching of paper or Mylar\* tape. Attachment is to the multiplexer channel of the IBM System/360 Models 25, 30, 40, and 50. The channel commands necessary to control the operation of the above units, and the status and sense bytes provided by the control unit, are fully described. Controls, tape specifications, tape-splicing procedures, tape-loading procedures, and special features are also described.
- GA36-0002  
IBM 4481 FILM READER/RECORDER  
This publication provides basic information about the IBM 4481 Film Reader/Recorder, with the objective of helping reader to achieve a general understanding of the machine's operation, its interface with the IBM System/360 through the IBM 1027 Data Control Unit, and its functional characteristics. Programming considerations, timing information, operator controls, and installation planning are discussed in detail.
- GA36-0003  
4481 FILM READER/RECORDER PROGRAMMER'S GUIDE  
This publication provides information that will enable the user to write programs for the IBM 4481 Film Reader/Recorder. Programming considerations are discussed prior to acquainting the user with the software support designed for his use. The user-oriented support programs comprise a set of macro-instructions which control data flow between the System/360 Central Processing Unit and the Film Reader/Recorder, and a selection of FORTRAN callable subroutines and image handling programs which perform transmission of data to and from the Film Reader/Recorder.
- LB0F-2063 \*N  
82 SORTER OPERATION - PI - COURSE CODE A0002  
This Bill of Forms number permits ordering student materials under one form number. One each of the following forms are included: tu SR29-0133 SR29-0136 SR29-0137
- SB0F-6100  
PTF PROGRAM NUMBER 360S-AL-531  
PTF listings for program number listed in title above.
- SB0F-6103  
PTF PROGRAM NUMBER 360S-AS-037  
PTF listings for program number listed in title above.
- SB0F-6106  
PTF PROGRAM NUMBER 360S-CB-524  
PTF listings for program number listed in title above.
- SB0F-6109  
PTF PROGRAM NUMBER 360S-CB-545  
PTF listings for program number listed in title above.
- SB0F-6110  
PTF PROGRAM NUMBER 360S-CI-505  
PTF listings for program number listed in title above.
- SB0F-6113  
PTF PROGRAM NUMBER 360S-CI-535  
PTF listings for program number listed in title above.
- SB0F-6116  
PTF PROGRAM NUMBER 360S-CI-555  
PTF listings for program number listed in title above.
- SB0F-6119  
PTF PROGRAM NUMBER 360S-CO-503  
PTF listings for program number listed in title above.
- SB0F-6122  
PTF PROGRAM NUMBER 360S-CO-513  
PTF listings for program number listed in title above.
- SB0F-6125  
PTF PROGRAM NUMBER 360S-CO-519  
PTF listings for program number listed in title above.
- SB0F-6128  
PTF PROGRAM NUMBER 360S-CO-548  
PTF listings for program number listed in title above.
- SB0F-6131  
PTF PROGRAM NUMBER 360S-DN-508  
PTF listings for program number listed in title above.
- SB0F-6137  
PTF PROGRAM NUMBER 360S-DN-527  
PTF listings for program number listed in title above.
- SB0F-6140  
PTF PROGRAM NUMBER 360S-DN-533  
PTF listings for program number listed in title above.
- SB0F-6143  
PTF PROGRAM NUMBER 360S-DN-539  
PTF listings for program number listed in title above.
- SB0F-6146  
PTF PROGRAM NUMBER 360S-DN-554  
PTF listings for program number listed in title above.
- SB0F-6149  
PTF PROGRAM NUMBER 360S-ED-521  
PTF listings for program number listed in title above.
- SB0F-6152  
PTF PROGRAM NUMBER 360S-FO-500  
PTF listings for program number listed in title above.
- SB0F-6155  
PTF PROGRAM NUMBER 360S-FO-520  
PTF listings for program number listed in title above.
- SB0F-6158  
PTF PROGRAM NUMBER 360S-FO-550  
PTF listings for program number listed in title above.
- SB0F-6161  
PTF PROGRAM NUMBER 360S-IO-523  
PTF listings for program number listed in title above.

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SBOF-6164 PTF PROGRAM NUMBER 360S-IO-526 PTF listings for program number listed in title above.	SBOF-6225 PTF SERVICE AIDS OS PTF listings of Operating System Service Aids.
SBOF-6167 PTF PROGRAM NUMBER 360S-LD-547 PTF listings for program number listed in title above.	SBOF-6230 PTF PROGRAM NUMBER 360N-AS-465 PTF listings for program number listed in title above.
SBOF-6170 PTF PROGRAM NUMBER 360S-LM-501 PTF listings for program number listed in title above.	SBOF-6232 PTF PROGRAM NUMBER 360N-AS-466 PTF listings for program number listed in title above.
SBOF-6173 PTF PROGRAM NUMBER 360S-LM-512 PTF listings for program number listed in title above.	SBOF-6234 PTF PROGRAM NUMBER 360N-CB-452 PTF listings for program number listed in title above.
SBOF-6176 PTF PROGRAM NUMBER 360S-LM-525 PTF listings for program number listed in title above.	SBOF-6236 PTF PROGRAM NUMBER 360N-CB-468 PTF listings for program number listed in title above.
SBOF-6179 PTF PROGRAM NUMBER 360S-LM-532 PTF listings for program number listed in title above.	SBOF-6238 PTF PROGRAM NUMBER 360N-CB-482 PTF listings for program number listed in title above.
SBOF-6182 PTF PROGRAM NUMBER 360S-LM-537 PTF listings for program number listed in title above.	SBOF-6240 PTF PROGRAM NUMBER 360N-CL-453 PTF listings for program number listed in title above.
SBOF-6185 PTF PROGRAM NUMBER 360S-LM-542 PTF listings for program number listed in title above.	SBOF-6242 PTF PROGRAM NUMBER 360N-CQ-469 PTF listings for program number listed in title above.
SBOF-6188 PTF PROGRAM NUMBER 360S-LM-546 PTF listings for program number listed in title above.	SBOF-6244 PTF PROGRAM NUMBER 360N-CQ-470 PTF listings for program number listed in title above.
SBOF-6192 PTF PROGRAM NUMBER 360S-NL-511 PTF listings for program number listed in title above.	SBOF-6248 PTF PROGRAM NUMBER 360N-DN-481 PTF listings for program number listed in title above.
SBOF-6195 PTF PROGRAM NUMBER 360S-PL-552 PTF listings for program number listed in title above.	SBOF-6250 PTF PROGRAM NUMBER 360N-EU-484 PTF listings for program number listed in title above.
SBOF-6198 PTF PROGRAM NUMBER 360S-PT-516 PTF listings for program number listed in title above.	SBOF-6252 PTF PROGRAM NUMBER 360N-EU-485 PTF listings for program number listed in title above.
SBOF-6201 PTF PROGRAM NUMBER 360S-RC-536 PTF listings for program number listed in title above.	SBOF-6254 PTF PROGRAM NUMBER 360N-FO-451 PTF listings for program number listed in title above.
SBOF-6204 PTF PROGRAM NUMBER 360S-RC-541 PTF listings for program number listed in title above.	SBOF-6256 PTF PROGRAM NUMBER 360N-FO-479 PTF listings for program number listed in title above.
SBOF-6207 PTF PROGRAM NUMBER 360S-RC-543 PTF listings for program number listed in title above.	SBOF-6258 PTF PROGRAM NUMBER 360N-IO-454 PTF listings for program number listed in title above.
SBOF-6210 PTF PROGRAM NUMBER 360S-RC-551 PTF listings for program number listed in title above.	SBOF-6260 PTF PROGRAM NUMBER 360N-IO-455 PTF listings for program number listed in title above.
SBOF-6213 PTF PROGRAM NUMBER 360S-RG-038 PTF listings for program number listed in title above.	SBOF-6262 PTF PROGRAM NUMBER 360N-IO-456 PTF listings for program number listed in title above.
SBOF-6216 PTF PROGRAM NUMBER 360S-SM-023 PTF listings for program number listed in title above.	SBOF-6264 PTF PROGRAM NUMBER 360N-IO-457 PTF listings for program number listed in title above.
SBOF-6219 PTF PROGRAM NUMBER 360S-UT-506 PTF listings for program number listed in title above.	SBOF-6266 PTF PROGRAM NUMBER 360N-IO-458 PTF listings for program number listed in title above.
SBOF-6222 PTF MODULE GENERATION - OS PTF listings for Operating System Module Generation.	SBOF-6268 PTF PROGRAM NUMBER 360N-IO-476 PTF listings for program number listed in title above.

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- SBOF-6270  
PTF PROGRAM NUMBER 360N-IO-477  
PTF listings for program number listed in title above.
- SBOF-6272  
PTF PROGRAM NUMBER 360N-IO-478  
PTF listings for program number listed in title above.
- SBOF-6274  
PTF PROGRAM NUMBER 360N-PL-464  
PTF listings for program number listed in title above.
- SBOF-6276  
PTF PROGRAM NUMBER 360N-PT-459  
PTF listings for program number listed in title above.
- SBOF-6278  
PTF PROGRAM NUMBER 360N-RG-460  
PTF listings for program number listed in title above.
- SBOF-6280  
PTF PROGRAM NUMBER 360N-SM-400  
PTF listings for program number listed in title above.
- SBOF-6282  
PTF PROGRAM NUMBER 360N-SM-450  
PTF listings for program number listed in title above.
- SBOF-6284  
PTF PROGRAM NUMBER 360N-SM-483  
PTF listings for program number listed in title above.
- SBOF-6286  
PTF PROGRAM NUMBER 360N-SV-473  
PTF listings for program number listed in title above.
- SBOF-6288  
PTF PROGRAM NUMBER 360N-SV-474  
PTF listings for program number listed in title above.
- SBOF-6290  
PTF PROGRAM NUMBER 360N-SV-475  
PTF listings for program number listed in title above.
- SBOF-6292  
PTF PROGRAM NUMBER 360N-SV-486  
PTF listings for program number listed in title above.
- SBOF-6294  
PTF PROGRAM NUMBER 360N-SV-487  
PTF listings for program number listed in title above.
- SBOF-6296  
PTF PROGRAM NUMBER 360N-SV-488  
PTF listings for program number listed in title above.
- SBOF-6298  
PTF PROGRAM NUMBER 360N-UT-461  
PTF listings for program number listed in title above.
- SBOF-6300  
PTF PROGRAM NUMBER 360N-UT-462  
PTF listings for program number listed in title above.
- SBOF-6302  
PTF PROGRAM NUMBER 360N-UT-463  
PTF listings for program number listed in title above.
- SBOF-6304  
PTF PROGRAM NUMBER 360N-UT-471  
PTF listings for program number listed in title above.
- SBOF-6306  
PTF PROGRAM NUMBER 360N-UT-472  
PTF listings for program number listed in title above.
- SBOF-6308  
PTF SERVICE AIDS DOS  
PTF listings of Disk Operating System Service Aids.
- GB21-0001  
GENERALIZED VEHICLE SCHEDULING PROGRAM (VSP) NETWORK  
FOR LOS ANGELES; FIELD DEVELOPED PROGRAM  
AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AAA  
Provides the Los Angeles based distributor a new method of  
implementing the IBM Vehicle Scheduling Program (360A-ST-  
06X). The network and its associated program eliminate the  
need for each distributor to develop his own VSP maps.
- SB21-0002  
GENERALIZED VEHICLE SCHEDULING PROGRAM  
NETWORK FOR LOS ANGELES FIELD DEVELOPED PROGRAM  
DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AAA  
Describes the capabilities of the system and the programs.  
Discussion of design assumptions and potential modification  
areas are included. Record and file layouts are described  
and primary processing procedures specified. This manual is  
both a system description and an installation and operations  
reference document.  
Provides the Los Angeles based distributor a new method  
of implementing the IBM Vehicle Scheduling Program (360A-ST-  
06X). The network and its associated program eliminate the  
need for each distributor to develop his own VSP maps.
- LB21-0003  
VEHICLE SCHEDULING PROGRAM  
GENERALIZED VSP NETWORK FOR LOS ANGELES, CALIFORNIA:  
FIELD DEVELOPED PROGRAM SYSTEMS GUIDE -  
PROGRAM NUMBER 5798-AAA  
The Generalized VSP Network for Los Angeles provides a means  
for creating a routing network within the Los Angeles basin  
(all of Los Angeles and Orange Counties located south of the  
Santa Susanna and San Gabriel mountain ranges). This manual  
provides program flowcharts, program listings, and operating  
instructions for the Map Selection, Link Verification, and  
Zone Selection Programs. These programs are used to develop  
a network unique to a given distributor. Licensed Program  
Product material.  
Provides the Los Angeles based distributor a new method  
of implementing the IBM Vehicle Scheduling Program (360A-ST-  
06X). The network and its associated program eliminate the  
need for each distributor to develop his own VSP maps.
- GB21-0010  
2770/1255 REMOTE MICR ENTRY SYSTEM (UNDER DOS BTAM) - FDP  
AVAILABILITY NOTICE - PROG. NO. 5798-AAD  
This program provides ability to transmit, capture on disk,  
balance, and settle batches of MICR encoded bank documents.  
Operating under DOS BTAM, it accumulates totals by  
application or type of entry for each bank.
- SB21-0011  
2770/1255 REMOTE MICR ENTRY SYSTEM  
PROGRAM DESCRIPTION/OPERATION MANUAL  
PROGRAM NUMBER 5798-AAD  
This manual describes the capabilities of the system and the  
programs. Discussion of design assumptions and potential  
modification areas are included. Record and file layouts  
are described, and primary processing procedures specified.  
This manual is both a system description and an installation  
and operations reference document.  
This program provides ability to transmit, capture on  
disk, balance, and settle batches of MICR encoded bank  
documents. Operating under DOS BTAM, it accumulates totals  
by application or type of entry for each bank.
- LB21-0012  
2770/1255 REMOTE MICR ENTRY SYSTEM - SYSTEMS GUIDE  
PROGRAM NUMBER 5798-AAD  
This "User's Manual" is for the Systems Analyst, Programmer  
and Operator during the Systems Test and Daily Operations of  
the programs. It also contains programmer notes to assist  
in making minor alterations.  
This program provides ability to transmit, capture on  
disk, balance, and settle batches of MICR encoded bank  
documents. Operating under DOS BTAM, it accumulates totals  
by application or type of entry for each bank.
- GB21-0019  
VEHICLE MAINTENANCE AND COST ANALYSIS  
FIELD DEVELOPED PROGRAM AVAILABILITY NOTICE  
PROGRAM NUMBER 5798-AAG  
This manual provides programs which assist in controlling  
maintenance cost of equipment. This is accomplished by  
processing vehicle information in a manner that facilitates  
the measurement and evaluation of equipment performance.
- SB21-0020  
VEHICLE MAINTENANCE AND COST ANALYSIS  
FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL  
PROGRAM NUMBER 5798-AAG  
This manual describes the capabilities of the system and the

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- programs. Discussion of design assumptions and potential modification areas are included. Record and file layouts are described and primary processing procedures are specified. This manual is both a system description and an installation and operations reference document.
- Provides programs which assist in controlling the maintenance cost of equipment. This is accomplished by processing vehicle information in a manner that facilitates the measurement and evaluation of equipment performance.
- LB21-0021  
VEHICLE MAINTENANCE AND COST ANALYSIS  
FIELD DEVELOPED PROGRAM SYSTEMS GUIDE,  
PROGRAM NUMBER 5798-AGG  
This "User's Manual" is for the Systems Analyst, Programmer and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.
- The manual provides programs which assist in controlling the maintenance cost of equipment. This is accomplished by processing vehicle information in a manner that facilitates the measurement and evaluation of equipment performance.
- GB21-0028  
PROGRAM REPORT INVENTORY SYSTEM - FIELD DEVELOPED PROGRAM  
AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AAK  
As data processing systems become more advanced, user demands for greater productive output are increasing. Data processing departments are vitally concerned with more difficult questions concerning efficient operations, scheduling, and programming.
- These answers can be supplied through the Program/Report Inventory System. This set of six ANS COBOL programs provides management documentation for the analysis of vital program and report information.
- SB21-0029  
PROGRAM REPORT INVENTORY SYSTEM  
PROGRAM DESCRIPTION OPERATIONS MANUAL  
PROGRAM NUMBER 5798-AAK  
This manual describes the capabilities of the system and the programs. Discussion of design assumptions and potential modification areas are included. Record and file layouts are described, and primary processing procedures are specified. This manual is both a system description and an installation and operations reference document.
- As data processing systems become more advanced, user demands for greater productive output are increasing. Data processing departments are vitally concerned with more difficult questions concerning efficient operations, scheduling, and programming.
- These answers can be supplied through the Program/Report Inventory System. This set of six ANS COBOL programs provides management documentation for the analysis of vital program and report information.
- LB21-0030  
PROGRAM REPORT INVENTORY SYSTEM - SYSTEM GUIDE  
PROGRAM NUMBER 5798-AAK  
This User's Manual is for the System Analyst, Programmer, and Operator during the Systems Test and Daily Operations of the program. It also contains programmer notes to assist in making minor alterations.
- As data processing systems become more advanced, user demands for greater productive output are increasing. Data processing departments are vitally concerned with more difficult questions concerning efficient operations, scheduling, and programming.
- These answers can be supplied through the Program/Report Inventory System. This set of six ANS COBOL programs provides management documentation for the analysis of vital program and report information.
- GB21-0034  
DISK OPERATING SYSTEM SORT EXIT ROUTINES FOR CS/30/40 FILES  
FIELD DEVELOPED PROGRAM - FLYER - PROGRAM NUMBER 5798-AAM  
This program provides routines which allow users of CS/30 or CS/40 to take advantage of the high-speed DOS/360 Tape and Disk Sort program for sorting emulated 1311 disk files. Independent input and output routines are provided which allow the DOS/360 Sort (360N-SM-0483) or the Program Product (5736-SM1) to read and write disk files in emulator format. Improvements in sorting times over Sort 5 or Sort 6 running under CS/30 will be as great as 70 percent.
- SB21-0035  
DISK OPERATING SYSTEM SORT EXIT ROUTINES FOR CONTROL SYSTEM  
(CS/30/40 FILES) - FIELD DEVELOPED PROGRAM DESCRIPTION  
OPERATIONS MANUAL - PROGRAM NUMBER 5798-AAM  
This manual describes the capabilities of the system and the programs. Discussion of design assumptions and potential modification areas are included. Record and file layouts are described, and primary processing procedures are
- specified. This manual is both a system description and an installation and operations reference document.
- This program provides routines which allow users of CS/30 or CS/40 to take advantage of the high-speed DOS/360 Tape and Disk Sort program for sorting emulated 1311 disk files. Independent input and output routines are provided which allow the DOS/360 Sort (360N-SM-0483) or the Program Product (5736-SM1) to read and write disk files in emulator format. Improvements in sorting times over Sort 5 or Sort 6 running under CS/30 will be as great as 70 percent.
- LB21-0036  
DISK OPERATING SYSTEM SORT EXIT ROUTINES FOR  
CS/30/40 FILES SYSTEMS GUIDE - PROGRAM NUMBER 5798-AAM  
This "User's Manual" is for the Systems Analyst, Programmer, and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.
- This program provides routines which allow users of CS/30 or CS/40 to take advantage of the high-speed DOS/360 Tape and Disk Sort program for sorting emulated 1311 disk files. Independent input and output routines are provided which allow the DOS/360 Sort (360N-SM-0483) or the Program Product (5736-SM1) to read and write disk files in emulator format. Improvements in sorting times over Sort 5 or Sort 6 running under CS/30 will be as great as 70 percent.
- GB21-0043  
PUBLIC UTILITY FINANCIAL PLANNING SYSTEM AVAILABILITY NOTICE  
PROGRAM NUMBER 5798-AAQ  
This Public Utility Financial Planning System, for the System/360 Model 25 and above, provides a tool to assist the corporate planning function of electric, gas, and combination utilities.
- Rather than attempt to forecast the future based on statistical analysis of past data, this system projects data into the future based on management estimates of future performance. The user provides current financial and operating data, as well as planning assumptions about future values of the data items. Based on this information, the system produces projected financial statements for a five-year planning period. These documents would be used by corporate planners to evaluate the given plan.
- SB21-0044  
PUBLIC UTILITY FINANCIAL PLANNING SYSTEM - FIELD DEVELOPED  
PROGRAM - PROGRAM DESCRIPTION OPERATIONS MANUAL  
PROGRAM NUMBER 5798-AAQ  
This manual describes the capabilities of the system and the programs. Discussion of design assumptions and potential modification areas are included. Record and file layouts are described, and primary processing procedures are specified. This manual is both a system description and an installation and operations reference document.
- The Public Utility Financial Planning System, for the System/360 Model 25 and above, provides a tool to assist the corporate planning function of electric, gas, and combination utilities.
- Rather than attempt to forecast the future based on statistical analysis of past data, this system projects data into the future based on management estimates of future performance. The user provides current financial and operating data, as well as planning assumptions about future values of the data items. Based on this information, the system produces projected financial statements for a five-year planning period. These documents would be used by corporate planners to evaluate the given plan.
- LB21-0045  
PUBLIC UTILITY FINANCIAL PLANNING SYSTEM GUIDE  
PROGRAM NUMBER 5798-AAQ  
This "User's Manual" is for the Systems Analyst, Programmer, and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.
- The Public Utility Financial Planning System, for the System/360 Model 25 and above, provides a tool to assist the corporate planning function of electric, gas, and combination utilities.
- Rather than attempt to forecast the future based on statistical analysis of past data, this system projects data into the future based on management estimates of future performance. The user provides current financial and operating data, as well as planning assumptions about future values of the data items. Based on this information, the system produces projected financial statements for a five-year planning period. These documents would be used by corporate planners to evaluate the given plan.
- GB21-0046  
SYSTEM MANAGEMENT FACILITY SELECTABLE ANALYZER  
AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AAR  
This is a program using as input the data created by the SMF option of OS/MFT and MVT. Based on control card

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specification, the program main procedure will call in report overlay procedures.  
The report procedures include analysis and display of information relating to CPU and I/O utilization, multiprogramming activity, program use profile, job and task initiation and completion, and distribution of cost.

SB21-0047

OPERATING SYSTEM/360 SYSTEM MANAGEMENT FACILITY SELECTABLE ANALYZER - PROGRAM DESCRIPTION/OPERATION MANUAL  
PROGRAM NUMBER 5798-AAR

This manual describes the capabilities of the system and the programs. Discussion of design assumptions and potential modification areas are included. Record and file layouts are described, and primary processing procedures specified. This manual is both a system description and an installation and operations reference document.

This is a program using as input the data created by the SMP option of OS/MFT and MVT. Based on control card specification, the program main procedure will call in report overlay procedures. The report procedures include analysis and display of information relating to CPU and I/O utilization, multiprogramming activity, program use distribution of cost.

LB21-0048

SYSTEM MANAGEMENT FACILITY ELECTABLE ANALYZER SYSTEMS GUIDE  
PROGRAM NUMBER 5798-AAR

This "User's Manual" is for the Systems Analyst, Programmer and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.

This is a program using as input the data created by the SMP option of OS/MFT and MVT. Based on control card specification, the program main procedure will call in report overlay procedures. The report procedures include analysis and display of information relating to CPU and I/O utilization, multiprogramming activity, program use profile, job and task initiation and completion, and distribution of cost.

GB21-0061

MINIMUM TELEPROCESSING COMMUNICATIONS SYSTEM  
AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AAI

Now, a Minimum Teleprocessing Communication System is available to the DOS user who would like to install a first terminal system. It is a generalized, single-thread, transaction oriented system that can be quickly installed and requires no specialized training in teleprocessing concepts, BASIC or Assembler Language to implement the system. It utilizes design concepts of the more sophisticated data base/data communication systems where possible. It complements and provides a logical growth path to systems such as IBM Customer Information Control System (CICS).

SB21-0062

MINIMUM TELEPROCESSING COMMUNICATIONS SYSTEM MANUAL  
PROGRAM NUMBER 5798-AAI

This manual describes the capabilities of the system and the programs. Discussion of the design assumptions and potential modification areas is included. Record and file layouts are described, and primary processing procedures are specified. This manual is both a system description and an installation and operations reference document.

Now, a Minimum Teleprocessing Communication System is available to the DOS user who would like to install a first terminal system. It is a generalized, single-thread, transaction oriented system that can be quickly installed, and requires no specialized training in teleprocessing concepts, BASIC, or Assembler Language to implement the system. It utilizes design concepts of the more sophisticated data base/data communication systems where possible. It complements and provides a logical growth path to systems such as IBM Customer Information Control System (CICS).

LB21-0063

MINIMUM TELEPROCESSING COMMUNICATIONS SYSTEM  
MANUAL, PROGRAM NUMBER 5798-AAI  
FIELD DEVELOPED PROGRAM - SYSTEMS GUIDE

This "User's Manual" is for the Systems Analyst, Programmer, and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.

Now, a Minimum Teleprocessing Communication System is available to the DOS user who would like to install a first terminal system. It is a generalized, single-thread, transaction oriented system that can be quickly installed and requires no specialized training in teleprocessing concepts, BASIC, or Assembler Language to implement the system. It utilizes design concepts of the more sophisticated data base/data communication systems where

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possible. It complements and provides a logical growth path to systems such as IBM Customer Information Control System (CICS).

GB21-0067

USER ROLLIN/ROLLOUT AVAILABILITY NOTICE  
PROGRAM NUMBER 5798-ABA

User Rollout/Rollin permits the user to maintain a small partition (2K) and expand this partition to the necessary size when a request is made by seizing extra memory from the other two possible partitions. The programs being processed in the other partitions are temporarily stored on disk files until the seized area has completed the assigned task, then processing resumes as if no seizure had taken place.

SB21-0068

DISK OPERATING SYSTEM DYNAMIC ROLLOUT/ROLLIN FIELD  
DEVELOPED PROGRAM DESCRIPTION OPERATIONS MANUAL  
PROGRAM NUMBER 5798-ABA

This manual describes the capabilities of the system and the programs. Discussion of design assumptions and potential modification areas are included. Record and file layouts are described, and primary processing procedures are specified. This manual is both a system description and an installation and operations reference document.

User Rollout/Rollin permits the user to maintain a small partition (2K) and expand this partition to the necessary size when a request is made by seizing extra memory from the other two possible partitions. The programs being processed in the other partitions are temporarily stored on disk files until the seized area has completed the assigned task, then processing resumes as if no seizure had taken place.

LB21-0069

DISK OPERATING SYSTEM DYNAMIC ROLLOUT/ROLLIN  
PROGRAM NUMBER 5798-ABA - FIELD DEVELOPED PROGRAM  
SYSTEMS GUIDE

This User's Manual is for the System Analyst, Programmer, and Operator during the Systems Test and Daily Operations of the program. It also contains programmer notes to assist in making minor alterations.

User Rollout/Rollin permits the user to maintain a small partition (2K) and expand this partition to the necessary size when a request is made by seizing extra memory from the other two possible partitions. The programs being processed in the other partitions are temporarily stored on disk files until the seized area has completed the assigned task, then processing resumes as if no seizure had taken place.

GB21-0136

DATA CLASSIFICATION SYSTEM FOR THE SYSTEM/360  
AVAILABILITY NOTICE - PROGRAM NUMBER 5798-ACC

The "Data Classification System" is a program designed to run under OS or DOS to transform a user data base into meaningful statistical information. It is designed for the nonmathematician/nonstatistician.

SB21-0137

DATA CLASSIFICATION SYSTEM FOR THE SYSTEM/360  
PROGRAM DESCRIPTION/OPERATIONS MANUAL  
PROGRAM NUMBER 5798-ACC

This manual describes the capabilities of the system and the programs. Discussion of design assumptions and potential modification areas are included. Record and file layouts are described, and primary processing procedures specified. This manual is both a system description and an installation and operations reference document.

The "Data Classification System" is a program designed to run under OS or DOS to transform a user data base into meaningful statistical information. It is designed for the nonmathematician/nonstatistician.

LB21-0138

DATA CLASSIFICATION SYSTEM FOR THE SYSTEM/360  
SYSTEMS GUIDE - PROGRAM NUMBER 5798-ACC

This "User's Manual" is for the Systems Analyst, Programmer, and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.

The "Data Classification System" is a program designed to run under OS or DOS to transform a user data base into meaningful statistical information. It is designed for the nonmathematician/nonstatistician.

GB21-0157

PRODUCT AND INVENTORY COSTING WITH TRENDS FOR USER REPORTING  
AND EVALUATION (PICTURE) - DOS - FDP AVAILABILITY NOTICE,  
PROG. NO. 5798-ACL

These application programs perform the standard accounting functions of product and inventory costing, manufacturing engineering product cost estimating and inventory valuation trend reporting.

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- SB21-0158  
PRODUCT AND INVENTORY COSTING WITH TRENDS FOR USER REPORTING AND EVALUATION - PROGRAM NUMBER 5798-ACL  
PROGRAM DESCRIPTION/OPERATIONS MANUAL  
This manual describes the capabilities of the system and the programs. Discussion of design assumptions and potential modification areas are included. Record and file layouts are described, and primary processing procedures specified. This manual is both a system description and an installation and operations reference document.  
These application programs perform the standard accounting functions of product and inventory costing, manufacturing engineering product cost estimating and inventory valuation trend reporting.
- SB21-0284  
TSO ON-LINE COBOL SYMBOLIC DEBUG  
PROGRAM DESCRIPTION/OPERATIONS MANUAL  
PROGRAM NUMBER 5798-AEZ  
This manual describes the capabilities of the system and the programs. Discussion of design assumptions and potential modification areas are included. Record and file layouts are described, and primary processing procedures specified. This manual is both a system description and an installation and operations reference document.  
This program provides the TSO user with an interactive facility for symbolic debugging during execution of his COBOL program.
- LB21-0159  
PRODUCT AND INVENTORY COSTING WITH TRENDS FOR USER REPORTING AND EVALUATION - SYSTEMS GUIDE - PROGRAM NUMBER 5798-ACL  
This "User's Manual" is for the Systems Analyst, Programmer and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.  
These application programs perform the standard accounting functions of product and inventory costing, manufacturing engineering product cost estimating and inventory valuation trend reporting.
- LB21-0285  
TSO ON-LINE COBOL SYMBOLIC DEBUG - SYSTEMS GUIDE  
PROGRAM NUMBER 5798-AEZ  
This "User's Manual" is for the Systems Analyst, Programmer and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.  
This program provides the TSO user with an interactive facility for symbolic debugging during execution of his COBOL program.
- GB21-0229  
SHAS PENDING INSURANCE CLAIMS ACCOUNTING PROGRAMS (DOS) FPE AVAILABILITY NOTICE, PROG. NO. 5798-ADN  
Provides the SHAS user with the capabilities of creating and maintaining a file of all claims forwarded to Medicare under the Medicare and part "A" programs.
- GB21-0313  
OS ROTABLE CONTROL PROGRAM - FIELD DEVELOPED PROGRAM AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AFA  
The IBM OS Rotable Control Program provides airline management with a comprehensive rotatable control system aimed at optimizing the very significant Rotable Spare Investment, while insuring sustained aircraft availability and airworthiness.  
Employing the Chained File Management System of the System/360 Requirements Planning Program Product, the rotatable control system is modular in design with an integrated data base framework. Thus, it can function independently or as part of an expanded Maintenance and Engineering system. In this manner, both immediate and long term benefits accrue to the airlines.
- SB21-0230  
SHAS PENDING INSURANCE CLAIMS - PROGRAM NUMBER 5798-ADN  
PROGRAM DESCRIPTION/OPERATIONS MANUAL  
This manual describes the capabilities of the system and the programs. Discussion of design assumptions and potential modification areas are included. Record and file layouts are described, and primary processing procedures specified. This manual is both a system description and an installation and operations reference document. Manual number GB21-0229 contains additional information.
- SB21-0314  
OS ROTABLE CONTROL PROGRAM - FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AFA  
The availability notice is a marketing oriented document that describes the purpose and capabilities of the program, advantages of design, and problems solved by the program referenced in the title.
- LB21-0231  
SHAS PENDING INSURANCE CLAIMS - PROGRAM NUMBERS 5798-ADM  
FIELD DEVELOPED PROGRAM - SYSTEMS GUIDE  
This "User's Manual" is for the Systems Analyst, Programmer and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations. Manual number GB21-0229 contains additional information.
- LB21-0315  
OS ROTABLE CONTROL PROGRAM - FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER 5798-AFA  
This "User's Manual" is for the Systems Analyst, Programmer and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.
- GB21-0238  
DOS 2311-2314/19 DASD DEVICE INDEPENDENCE ROUTINES AVAILABILITY NOTICE - PROGRAM NUMBER 5798-ADT  
This system allows the user to run programs compiled for specific DASD devices on a different DASD device without program recompilation.
- GB21-0316  
DOS TOTAL CONTROL PROGRAM - FOR AVAILABILITY NOTICE - PROG. NO. 5798-AFC  
PROGRAM NUMBER 5798-AFC  
The DOS Rotable Control Program provides airline management with a comprehensive rotatable control system aimed at optimizing the very significant Rotable Spare Investment, while insuring sustained aircraft availability and airworthiness.  
Employing the System/360 Data Base Organization and Maintenance Processor (DBOMP) program product, the system is modular in design with an integrated data base framework. Thus, it can function independently or as part of an expanded Maintenance and Engineering system. In this manner, both immediate and long term benefits accrue to the airlines.
- SB21-0239  
DOS 2311-2314/19 DASD DEVICE INDEPENDENCE ROUTINES  
PROGRAM DESCRIPTION/OPERATIONS MANUAL  
PROGRAM NUMBER 5798-ADT  
This manual describes the capabilities of the system and the programs. Discussion of design assumptions and potential modification areas are included. Record and file layouts are described, and primary processing procedures specified. This manual is both a system description and an installation and operations reference document.  
This system allows the user to run programs compiled for specific DASD devices on a different DASD device without program recompilation.
- SB21-0317  
IBM DISK OPERATING SYSTEM/360 ROTABLE CONTROL PROGRAM  
FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL  
PROGRAM NUMBER 5798-AFC  
This manual describes the capabilities of the system and the programs. Discussion of design assumptions and potential modification areas are included. Record and file layouts are described, and primary processing procedures specified. This manual is both a system description and an installation and operations reference document.
- LB21-0240  
DOS 2311-2314/19 DASD DEVICE INDEPENDENCE ROUTINES SYSTEMS GUIDE - PROGRAM NUMBER 5798-ADT  
This "User's Manual" is for the Systems Analyst, Programmer and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.  
This system allows the user to run programs compiled for specific DASD devices on a different DASD device without program recompilation.
- LB21-0318  
IBM DISK OPERATING SYSTEM/360 ROTABLE CONTROL PROGRAM  
FIELD DEVELOPED PROGRAM SYSTEMS GUIDE  
PROGRAM NUMBER 5798-AFC  
This "User's Manual" is for the Systems Analyst, Programmer and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.
- GB21-0283  
TSO ON-LINE COBOL SYMBOLIC DEBUG - AVAILABILITY NOTICE  
PROGRAM NUMBER 5798-AEZ  
This program provides the TSO user with an interactive facility for symbolic debugging during execution of his COBOL program.

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- GB21-0322  
DOS APPLICATION DOCUMENTATION PROGRAM - FIELD DEVELOPED PROGRAM AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AFF  
Management must be in a position to assess current systems and the impact of proposed systems modifications. All too often, however, analysis of systems documentation (even when current and complete) is time-consuming and tedious.  
The DOS Application Documentation Program helps data processing management to create and maintain a centralized documentation base. This documentation data base provides information about systems components and how they are related. Reporting programs allow the user to retrieve information rapidly and useful formats. File Maintenance routines are also provided to update the documentation base.  
With the aid of the DOS Application Documentation Program, reports may be generated showing every file used by each program and every program that uses a particular file.  
The DOS Application Documentation Program uses the System/360 Bill of Material Processor Program as a file organization technique.
- modification areas are included. Record and file layouts are described, and primary processing procedures specified. This manual is both a system description and an installation and operations reference document.
- LB21-0395  
IBGS - INTERACTIVE BUSINESS GAME SIMULATION - A GENERAL BUSINESS SIMULATION FOR APL/360 - FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER 5798-AGH  
This "User's Manual" is for the Systems Analyst, Programmer and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.
- GB21-0411  
GRAPHPAK - INTERACTIVE GRAPHICS PACKAGE FOR APL/360 FIELD DEVELOPED PROGRAMS-AVAILABILITY NOTICE PROGRAM NUMBER 5798-AGK  
The availability notice is a marketing oriented document that describes the purpose and capabilities of the program, advantages of design, and problems solved by the program referenced in the title.
- SB21-0323  
DOS APPLICATION DOCUMENTATION PROGRAM - FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS - PROGRAM NUMBER 5798-AFF  
This manual describes the capabilities of the system and the programs. Discussion of design assumptions and potential modification areas are included. Record and file layouts are described, and primary processing procedures specified. This manual is both a system description and an installation and operations reference document.
- SB21-0412  
GRAPHPAK - INTERACTIVE GRAPHICS PACKAGE FOR APL/360 FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-AGK  
This manual describes the capabilities of the system and the programs. Discussion of design assumptions and potential modification areas are included. Record and file layouts are described, and primary processing procedures specified. This manual is both a system description and an installation and operations reference document.
- LB21-0324  
DOS APPLICATION DOCUMENTATION PROGRAM - FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER 5798-AFF  
This "User's Manual" is for the Systems Analyst, Programmer and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.
- LB21-0413  
GRAPHPAK - INTERACTIVE GRAPHICS PACKAGE FOR APL/360 FIELD DEVELOPED PROGRAM-SYSTEMS GUIDE PROGRAM NUMBER 5798-AGK  
This "User's Manual" is for the Systems Analyst, Programmer and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.
- GB21-0334  
DOS TO OS ASSEMBLER LANGUAGE MACRO CONVERSION FIELD DEVELOPED PROGRAM AVAILABILITY NOTICE PROGRAM NUMBER 5798-AFL  
The availability notice is a marketing oriented document that describes the purpose and capabilities of the program, advantages of design, and problems solved by the program referenced in the title.
- GB21-0432  
ANALYTICAL PROCESSING TECHNIQUE (APT) UNDER CP-67/CMS FIELD DEVELOPED PROGRAM - AVAILABILITY NOTICE PROGRAM NUMBER 5798-AGD  
The availability notice is a marketing oriented document that describes the purpose and capabilities of the program, advantages of design, and problems solved by the program referenced in the title.
- SB21-0335  
DOS TO OS ASSEMBLER LANGUAGE MACRO CONVERSION FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-AFL  
This 12 page document describes the capabilities of the FDP and the programs of DOS to OS Assembler Language Macro Conversion. Written in OS Assembler Language (360-AS-037), this system converts DOS Macros to their OS equivalent.  
This Program Description/Operations Manual provides
- SB21-0433  
APT UNDER CP/CMS - PROGRAM NUMBER 5798-AGD  
This manual describes the capabilities of the system and the programs. Discussion of design assumptions and potential modification areas are included. Record and file layouts are described, and primary processing procedures specified. This manual is both a system description and an installation and operations reference document.
- LB21-0336  
DOS TO OS ASSEMBLER LANGUAGE MACRO CONVERSION - FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER 5798-AFL  
This "User's Manual" is for the Systems Analyst, Programmer and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.
- LB21-0434  
APT UNDER CP/CMS - PROGRAM NUMBER 5798-AGD FIELD DEVELOPED PROGRAM-SYSTEMS GUIDE  
This "User's Manual" is for the Systems Analyst, Programmer and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.
- GB21-0387  
HONEYWELL 200 SERIES COBOL TO IBM AS COBOL CONVERSION AIDS FDP AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AGC  
The availability notice is a marketing oriented document that describes the purpose and capabilities of the program, advantages of design, and problems solved by the program referenced in the title.
- GB21-0450  
DOS TIME ACCOUNTING AND BILLING - FIELD DEVELOPED PROGRAMS-AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AHH  
The availability notice is a marketing oriented document that describes the purpose and capabilities of the program, advantages of design, and problems solved by the program referenced in the title.
- GB21-0393  
IBGS - INTERACTIVE BUSINESS GAME SIMULATION - A GENERAL BUSINESS SIMULATION FOR APL/360 - PROGRAM NUMBER 5798-AGH FIELD DEVELOPED PROGRAM-AVAILABILITY NOTICE  
The availability notice is a marketing oriented document that describes the purpose and capabilities of the program, advantages of design, and problems solved by the program referenced in the title.
- SB21-0451  
DOS TIME ACCOUNTING AND BILLING - FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AHH  
This manual describes the capabilities of the system and the programs. Discussion of design assumptions and potential modification areas are included. Record and file layouts are described, and primary processing procedures specified. This manual is both a system description and an installation and operations reference document.
- SB21-0394  
IBGS - INTERACTIVE BUSINESS GAME SIMULATION - A GENERAL BUSINESS SIMULATION FOR APL/360 - FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AGH  
This manual describes the capabilities of the system and the programs. Discussion of design assumptions and potential

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- LB21-0452  
DOS TIME ACCOUNTING AND BILLING - FIELD DEVELOPED  
PROGRAM-SYSTEMS GUIDE - PROGRAM NUMBER 5798-AHP  
This "User's Manual" is for the Systems Analyst, Programmer and Operator during the Systems Test and Daily Operations of the programs. It also contains programmer notes to assist in making minor alterations.
- GB21-0490  
UNIVAC 9300 COBOL TO IBM ANS COBOL CONVERSION AID  
FDP AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AHP  
The availability notice is a marketing oriented document that describes the purpose and capabilities of the program, advantages of design, and problems solved by the program referenced in the title.
- GB21-0505  
CUSTOMER INFORMATION FILE USING DOS/CICS  
FDP - AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AHX  
This six page document describes the purpose and highlights of the Customer Information File Using DOS/CICS for the System/360, 370. Written in Assembler Language Code, this program is a multi-purpose file that combines all customer descriptive data into a centralized pool of information. Access can be from on-line terminals via name or account number or from various accounting application programs. This system is designed primarily for banks but can be modified for other institutions.  
This Availability Notice contains complete ordering instructions for the Field Developed Program and all its related documentation, for management and data processing personnel who are prospective users of the program and others who require information concerning it.
- SB21-0506  
CUSTOMER INFORMATION FILE USING DOS/CICS  
FDP - PROGRAM DESCRIPTION/OPERATIONS MANUAL  
PROGRAM NUMBER 5798-AHX  
This 174 page document describes the capabilities of the FDP and the programs of the Customer Information File using DOS/CICS system. Written in Assembler Language Code for the System/360, 370, this program is a multi-purpose file that combines all customer descriptive data into a centralized pool of information. Access can be from on-line terminals via name or account number or from various accounting application programs. This system is designed primarily for banks but can be modified for other institutions.  
This Program Description/Operations Manual provides the user with sufficient information to understand, install and successfully use the program.
- LB21-0507  
CUSTOMER INFORMATION FILE USING DOS/CICS  
FDP - SYSTEMS GUIDE - PROGRAM NUMBER 5798-AHY  
This 260 page document describes the steps necessary to modify the Customer Information File Using DOS/CICS FDP written in Assembler Language Code for the System/360, 370. This program is a multi-purpose file that combines all customer descriptive data into a centralized pool of information. Access can be from on-line terminals via name or account number or from various accounting application programs. This system is designed primarily for banks but can be modified for other institutions.  
This systems guide provides the Systems Analyst with the necessary information on the design, logic and coding of the system to enable him to make modifications, diagnose program errors and perform program maintenance.
- GB21-0541 \*N  
LEASE VS. PURCHASE ANALYSIS OF CAPITAL EXPENDITURES  
AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AJK  
This four page document describes the purpose and highlights of the Lease vs. Purchase Analysis of Capital Expenditures program for the System/360. Written in FORTRAN IV, this program simulates different approaches to capital acquisition by applying a variety of depreciation methods, tax credits, financing, lease prices, etc.  
This Availability Notice contains complete ordering instructions for the Field Developed Program and all its related documentation, for management and data processing personnel who are prospective users of the program and others who require information concerning it.
- SB21-0542 see page 228
- LB21-0543 \*N  
LEASE VS. PURCHASE ANALYSIS OF CAPITAL EXPENDITURES  
SYSTEMS GUIDE - FDP NUMBER 5798-AJK  
This 36 page document describes the steps necessary to modify the lease vs. Purchase Analysis of Capital Expenditures FDP written in FORTRAN IV for the System/360. This program is designed to simulate different approaches to capital acquisition by applying a variety of depreciation methods, tax credits, financing, lease prices, etc.  
This systems guide provides the Systems Analyst with the
- necessary information on the design, logic and coding of the system to enable him to make modifications, diagnose program errors and perform program maintenance.
- GB21-0553  
OPERATOR TRAINING - DOS CONSOLE SIMULATION DRILLS: BASIC  
TRAINING COURSE A3609 (PROG. NO. 5798-AJM), CUSTOMER PROBLEM  
DETERMINATION COURSE A3611 (PROG. NO. 5798-AJN),  
AND MULTIPROGRAMMING COURSE A3612 (PROG. NO. 5798-AJP)  
FIELD DEVELOPED PROGRAMS-AVAILABILITY NOTICE  
The availability notice is a marketing oriented document that describes the purpose and capabilities of the program, advantages of design, and problems solved by the program referenced in the title.
- SB21-0554  
DOS BASIC OPERATOR TRAINING - PROGRAM  
DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AJM  
This 28 page document describes the capabilities of the FDP and the programs of the DOS Basic Operator Training system. Written in the Coursewriter III language, this Console Simulation Drill provides the student with simulated hands-on experience but controls the student activity, thus protecting vital system and user files.  
This Program Description/Operations Manual provides the user with sufficient information to understand, install and successfully use the program.
- LB21-0555  
DOS BASIC OPERATOR TRAINING - SYSTEMS GUIDE  
FIELD DEVELOPED PROGRAM - PROGRAM NUMBER 5798-AJM  
This 50 page document describes the steps necessary to modify the DOS Basic Operator Training FDP written in the Coursewriter III Language. This Console Simulation Drill provides the student with simulated hands-on experience but controls the student activity, thus protecting vital system and user files.  
This systems guide provides the Systems Analyst with the necessary information on the design, logic and coding of the system to enable him to make modifications, diagnose program errors and perform program maintenance.
- SB21-0557  
DOS CUSTOMER PROBLEM DETERMINATION OPERATOR TRAINING  
PROGRAM DESCRIPTION/OPERATIONS MANUAL - FIELD DEVELOPED  
PROGRAM - PROGRAM NUMBER 5798-AJN  
This 28 page document describes the capabilities of the FDP and the programs of the DOS Customer Problem Determination Operator Training system. Written in the Coursewriter III Language, this Console Simulation Drill provides the student with simulated hands-on experience but controls the student activity, thus protecting vital system and user files.  
This Program Description/Operations Manual provides the user with sufficient information to understand, install and successfully use the program.
- LB21-0558  
DOS CUSTOMER PROBLEM DETERMINATION OPERATOR TRAINING  
FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER  
5798-AJN  
This 80 page document describes the steps necessary to modify the DOS Customer Problem Determination Operator Training FDP written in the Coursewriter III Language. This Console Simulation Drill provides the student with simulated hands-on experience but controls the student activity, thus protecting vital system and user files.  
This systems guide provides the Systems Analyst with the necessary information on the design, logic and coding of the system to enable him to make modifications, diagnose program errors and perform program maintenance.
- SB21-0560  
DOS MULTIPROGRAMMING OPERATOR TRAINING - FIELD DEVELOPED  
PROGRAM - PROGRAM DESCRIPTION/OPERATIONS MANUAL  
PROGRAM NUMBER 5798-AJP  
This 26 page document describes the capabilities of the FDP and the programs of the DOS Multiprogramming Operator Training system. Written in the Coursewriter III Language, this Console Simulation Drill provides the student with simulated hands-on experience but controls the student activity, thus protecting vital system and user files.  
This Program Description/Operations Manual provides the user with sufficient information to understand, install and successfully use the program.
- LB21-0561  
DOS MULTIPROGRAMMING OPERATOR TRAINING - SYSTEMS GUIDE  
FIELD DEVELOPED PROGRAM - PROGRAM NUMBER 5798-AJP  
This 56 page document describes the steps necessary to modify the DOS Multiprogramming Operator Training FDP written in the Coursewriter III Language. This Console Simulation Drill provides the student with simulated hands-

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on experience but controls the student activity, thus protecting vital system and user files.  
This systems guide provides the Systems Analyst with the necessary information on the design, logic and coding of the system to enable him to make modifications, diagnose program errors and perform program maintenance.

SB21-0574 see page 228

SB21-0575

**OS/360/370 JOB CONTROL LANGUAGE DEVICE DEPENDENT PARAMETER CONVERSION AND REPLACEMENT (DDPREP) PROGRAM DESCRIPTION/OPERATIONS MANUAL - FDP NUMBER 5798-AJU** \*N  
This 44 page document describes the capabilities of the FDP and the programs of the OS/360/370 Job Control Language - Device Dependent Parameter Conversion and Replacement (DDPREP) system. Written in PL/1 for the System 360/370, this system converts production Job Control Language and procedure libraries to accommodate new I/O Device Characteristics and data set locations.

This Program Description/Operations Manual provides the user with sufficient information to understand, install and successfully use the program.

LB21-0576

**OS/360/370 JOB CONTROL LANGUAGE DEVICE DEPENDENT PARAMETER CONVERSION AND REPLACEMENT (DDPREP) - SYSTEMS GUIDE - FDP NUMBER 5798-AJU** \*N

This 32 page document describes the steps necessary to modify the OS/360/370 Job Control Language - Device Dependent Parameter Conversion and Replacement (DDPREP) FDP written in PL/1 for the System 360/370. This program converts production Job Control Language and procedure libraries to accommodate new I/O device characteristics and data set locations.

This systems guide provides the Systems Analyst with the necessary information on the design, logic and coding of the system to enable him to make modifications, diagnose program errors and perform program maintenance.

GB21-0620

**3270 FORMAT MACRO FOR OUTPUT DATA STREAMS FDP - AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AKL** \*N

This four page document describes the purpose and highlights of the 3270 Format Macro for Output Data Streams program for the System/360. This program was written in Assembler Language. Format is an Assembler Macro which when included in an OS or DOS Assembler Program or made available to the assembler through a Macro Library, allows the programmer to create output data streams for the Local or Remote 3270 Display Screen or Printer.

This Availability Notice contains complete ordering instructions for the Field Developed Program and all its related documentation, for management and data processing personnel who are prospective users of the program and others who require information concerning it.

SB21-0621

**3270 FORMAT MACRO FOR OUTPUT DATA STREAMS FDP - PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AKL** \*N

This 62 page document describes the capabilities of the FDP and the programs of the 3270 Format Macro for Output Data Streams system. This program was written in Assembler Language. Format is an Assembler Macro which when included in an OS or DOS Assembler Program or made available to the assembler through a Macro Library, allows the programmer to create output data streams for the Local or Remote 3270 Display Screen or Printer.

This Program Description/Operations Manual provides the user with sufficient information to understand, install and successfully use the program.

LB21-0622

**3270 FORMAT MACRO FOR OUTPUT DATA STREAMS FDP - SYSTEMS GUIDE - PROGRAM NUMBER 5798-AKL** \*N

This ten page document describes the steps necessary to modify the 3270 Format Macro for Output Data Streams FDP written in Assembler Language for the System/360. Format is an Assembler Macro which when included in an OS or DOS Assembler Program or made available to the assembler through a Macro Library, allows the programmer to create output data streams for the Local or Remote 3270 Display Screen or Printer.

This systems guide provides the Systems Analyst with the necessary information on the design, logic and coding of the system to enable him to make modifications, diagnose program errors and perform program maintenance.

GB21-0686

**DOS 2311/14/19 - 3330 DASD DEVICE INDEPENDENCE ROUTINES AVAILABILITY NOTICE - FDP NUMBER 5798-ALK** \*N

This 2 page document describes the purpose and highlights of the DOS 2311/14/19-3330 DASD Device Independence Routines program for the System/360/370 (DOS). Written in Assembler Language, this program provides the DOS user device

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independence between 2311/14/19 and 3330 disk files. These routines dynamically modify (at OPEN time) any program written in any language that uses Index Sequential, Sequential, Direct Access, or PIOCS in a standard manner.

This Availability Notice contains complete ordering instructions for the Field Developed Program and all its related documentation, for management and data processing personnel who are prospective users of the program and others who require information concerning it.

SB21-0687

**DOS 2311/14/19-3330 DASD DEVICE INDEPENDENCE ROUTINES PROGRAM DESCRIPTION/OPERATIONS MANUAL - FDP NUMBER 5798-ALK** \*N  
This 24 page document describes the capabilities of the FDP and the programs of the DOS 2311/14/19-3330 DASD Device Independence Routines system. Written in Assembler Language for the System 360/370 (DOS), this system provides the DOS user device independence between 2311/14/19 and 3330 disk files. These routines dynamically modify (at OPEN time) any program written in any language that uses Index Sequential, Sequential, Direct Access, or PIOCS in a standard manner.

This Program Description/Operations Manual provides the user with sufficient information to understand, install and successfully use the program.

LB21-0688

**DOS 2311/14/19-3330 DASD DEVICE INDEPENDENCE ROUTINES SYSTEMS GUIDE - FDP NUMBER 5798-ALK** \*N

This 98 page document describes the steps necessary to modify the DOS 2311/14/19-3330 DASD Device Independence Routines FDP written in Assembler Language for the System 360/370 (DOS). This program provides the DOS user device independence between 2311/14/19 and 3330 disk files. These routines dynamically modify (at OPEN time) any program written in any language that uses Index Sequential, Sequential, Direct Access, or PIOCS in a standard manner.

This systems guide provides the Systems Analyst with the necessary information on the design, logic and coding of the system to enable him to make modifications, diagnose program errors and perform program maintenance.

GB21-9981

**VEHICLE MAINTENANCE AND COST ANALYSIS SYSTEM - MARKETING GUIDE - PROGRAM NUMBER 5798-AAG**

FDP for vehicle maintenance and cost analysis to assist users in the installation of a maintenance control system without the laborious and time consuming activities inherent in a manual system.

GB21-9985

**TIME SHARING OPTION ON-LINE COBOL SYMBOLIC DEBUG REQUESTS REFERENCE CARD**

No abstract available.

GB21-9986

**SMF SELECTABLE ANALYZER AND ACCOUNTING FOR DF OPERATIONS** \*N

The SMF selectable analyzer correlates data and presents individual reports and information on optimizing operations.

LCB6-3772

**IBM SYSTEM/360 OS ASSEMBLER H - PROGRAM NUMBER 5734-AS1**

The IBM System/360 Operating System Assembler H 5734-AS1 is an assembler language processor that extends the basic assembler language and the macro and conditional-assembly language. It is designed to perform high-speed assemblies on IBM System/360, Models 40 and larger, that have at least 256K bytes of main storage.

LCB8-6757

**SYSTEM/360 DISK OPERATING SYSTEM SORT/MERGE PROGRAM NUMBER 5736-SM1**

Contains Type I OS Program Listings and DOS/OS PTF listing.

GCB8-6796

**IBM 2947-4 CHECK COLLECTION CONTROLLER (RPO #888264) SEQUENTIAL ACCESS METHOD (CSAM) MAIN MODULE-DOS MICROFICHE LISTING**

Assembly Program Listing for the Main Module of Program 5799-WAF. Data Management and I/O Routines for the 2947-4.

GCB8-6797

**IBM 2947-4 CHECK COLLECTION CONTROLLER (RPO #888264) SEQUENTIAL ACCESS METHOD (CSAM) ERR MODULE-DOS MICROFICHE LISTING - PROGRAM NUMBER 5799-WAF**

Assembly Program Listing for the Error Recovery Routine/Procedures Module of Program 5799-WAF.

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- GC88-6798  
IBM 2947-4 CHECK COLLECTION CONTROLLER (RPO #888264)  
SEQUENTIAL ACCESS METHOD (CSAM) MAIN MODULE-OS  
MICROFICHE LISTING - PROGRAM NUMBER 5799-WAG  
Assembly Program Listing for the Main Module of Program 5799-WAG. Data Management and I/O Routines for the 2947-4.
- GC88-6799  
IBM 2947-4 CHECK COLLECTION CONTROLLER (RPO #888264)  
SEQUENTIAL ACCESS METHOD (CSAM) ERR MODULE-OS  
MICROFICHE LISTING - PROGRAM NUMBER 5799-WAG  
Assembly Program Listing for the Error Recovery Routine/Procedures Module of Program 5799-WAG.
- GC19-0001  
IBM SYSTEM/360 INSTALLATION MANUAL - PHYSICAL PLANNING  
IBM WORLD TRADE 50-HERTZ REQUIREMENTS  
This publication is a version of IBM SYSTEM/360 INSTALLATION MANUAL - PHYSICAL PLANNING, Order No. GC22-6820; it is limited to IBM World Trade requirements.  
This manual contains preliminary physical information for installing the IBM System/360.
- GC19-0004  
IBM SYSTEM/370 WORLD TRADE INSTALLATION MANUAL--PHYSICAL PLANNING - SYSTEMS REFERENCE LIBRARY  
This manual contains preliminary physical information for installing the IBM System/370, including floor planning and electrical, environmental, and structural requirements. It describes the physical characteristics of each unit and their effect on installation requirements. This publication is a version of IBM SYSTEM/370 INSTALLATION MANUAL-PHYSICAL PLANNING, GC22-7004; it is limited to IBM World Trade 50-Hertz and certain 60-Hertz requirements.  
This publication is intended for IBM World Trade use by customer and IBM installation planning personnel, as well as architects and electrical and building contractors.
- GC20-1618  
NUMBER SYSTEMS  
This IBM student text on number systems presents a brief review of the principles of positional notation, as applied to the binary and hexadecimal systems of notation. The publication covers the operations of binary and hexadecimal arithmetic, decimal-binary - hexadecimal base conversion, and the principles of base and base-minus-one complementation.
- GC20-1619  
CATALOG OF PROGRAMS FOR IBM SYSTEM/360 MODELS 25 AND ABOVE  
This Catalog contains a complete listing of all programs for the IBM System/360 available from the Program Information Department, 40 Saw Mill River Road, Hawthorne, New York 10532.  
Instructions for ordering programs are contained in the section of the Introduction entitled, "Completion of the IBM Program Order Form".  
See BOM Marketing Activity and Program Information section, Ordering Programs from PID subsection, as updated by BMR DP 203, Z239-4700-0, 4/1/72.
- SC20-1637  
A GUIDE TO PL/I FOR FORTRAN USERS  
This manual is an introductory guide to PL/I written especially for those who have a working knowledge of FORTRAN II or IV. No particular machine implementation of FORTRAN or PL/I has been assumed. Part 1 gives a broad survey of PL/I. A sample program illustrating some of the principle features of the language is explained step by step.  
Part 2 gives sufficient detail for the user to be able to write a straightforward program for himself. It is not a rigorous exposition. Examples have been used to clarify the text. The terminology used is intended to be that which is familiar to a FORTRAN user.  
Part 3 describes concepts not familiar to FORTRAN users, although some of them are familiar to those who know COBOL or ALGOL. Where references to COBOL or ALGOL will help readers who know these languages, the reference is made, but the explanation is also given in full for those who do not.  
This guide does not attempt to cover all the features of the language. Many facilities have not been mentioned at all, and some of the statements and features have not been explained in full detail.
- SC20-1646  
A PROGRAMMER'S INTRODUCTION TO  
IBM SYSTEM/360 ASSEMBLER LANGUAGE  
This student text is an introduction to System/360 Assembler Language coding. It provides many examples of short programs shown in assembled form. Some elementary programming techniques and the specific instructions illustrated in the programs are discussed in simple, relatively nontechnical terms. Much of the text is based on information in IBM SYSTEM/360 PRINCIPLES OF OPERATION (GA22-6821). This includes a brief review of relevant System/360 concepts and descriptions of selected assembler language instructions for arithmetic, logical, and branching operations. Standard (fixed-point), decimal, and floating-point arithmetic are discussed. The book also includes an elementary introduction to assembler language and the assembler program, and chapter on base register addressing and on program linkages and relocation. The coding of many other common programming techniques, such as the use of branches, loops, and counters, is shown. The use of macro instructions is demonstrated, but not covered in detail. Program flowcharting and input/output operations are beyond the scope of the book.  
The publication is a sampler rather than a comprehensive textbook. It is intended for supplementary reading for the student in a regular course of study on System/360 assembler language coding, and for the novice programmer. In general, the reader will find that the program examples are quite simple at the beginning of each chapter, or major subject division, and become progressively more complex. If the going seems difficult, it is suggested that he simply skip to the next subject and come back later.  
The student should have access to two IBM System/360 System Reference Library (SRL) manuals for reference purposes: the PRINCIPLES OF OPERATION and the assembler specification manual for one of the System/360 operating systems. (All publications and their form numbers are listed at the end of the Preface.) He should also be familiar with fundamental concepts of data processing and the basic operating principles of System/360. Two IBM programmed instruction (P.I.) courses, or their equivalent, are prerequisite to a full understanding of this student text: COMPUTING SYSTEM FUNDAMENTALS and INTRODUCTION TO SYSTEM/360. The student who is not enrolled in a comprehensive programming course will find the P.I. book FUNDAMENTALS OF PROGRAMMING a valuable guide to problem analysis and program flowcharting.
- GC20-1649  
INTRODUCTION TO IBM SYSTEM/360 DIRECT ACCESS STORAGE DEVICES AND ORGANIZATION METHODS  
This text discusses the physical characteristics and capacities of the following Direct Access Storage Devices available for System/360 Models 25, 30, 44, 50, 65, 67, 75, and 85:  
2301 Drum Storage  
2302 Disk Storage  
2303 Drum Storage  
2311 Disk Storage Drive  
2314 Direct Access Storage Facility  
2321 Data Cell Drive  
The file organization methods and access methods provided for these devices by the IBM System/360 Operating System, the IBM System/360 Disk Operating System and the IBM System/360 Basic Operating System are also discussed. The uses of direct access storage, basic terminology, and the establishment of controls for a direct access system are other topics addressed by this text. Most of the chapters end with student exercises, answers to which may be found at the end of the manual.  
No attempt at completeness is made. Refer to the publications listed in the Bibliography for additional details.
- GC20-1650  
IBM SYSTEM/360 MODEL 30 1401 COMPATIBILITY MODE OPERATOR'S MANUAL  
This manual has been prepared to aid the 1401 operator in transferring to Compatibility Mode Operation on a System/360 Model 30. Only those procedures that differ from their counterparts on the 1401 are discussed. Detailed run book entries are presented for each functional operator action. Procedures can be incorporated into the installation's 1401 run book(s) to provide a single source of operator reference.
- SC20-1651  
A GUIDE TO PL/I FOR COMMERCIAL PROGRAMMERS  
COURSE CODE P3668  
PL/I is a multipurpose, high-level programming language that enables the programming not only of commercial and scientific applications but also of real-time and systems applications. It also permits a programmer to use the full power of his computer in an efficient manner and to program applications in a relatively machine-independent fashion. This publication presents those features of PL/I that apply to commercial data processing. It does not restrict itself to a particular aspect of commercial data processing but attempts to discuss all features of PL/I that may be used in the full spectrum of commercial applications.

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CONTINUED FROM PRIOR COLUMN

- GC28-1667 **INTRODUCTION TO IBM SYSTEM/360 ARCHITECTURE** \*N  
This text is intended to introduce the student to the characteristics of System/360. It is expected that the student has some knowledge of computing systems.
- GC28-1684 **AN INTRODUCTION TO IBM DATA PROCESSING SYSTEMS**  
This manual presents concepts and principals essential to a basic knowledge of computers. It is designed for use in training programs that serve as prerequisites for a detailed study of an IBM system. Covered in general terms are topics such as Data Representation, Storage Devices, CPW Functions, I/O Devices, Stored Program Principles, Programming Systems, Operating Systems, Conversion, and Procedural Controls. Reference to specific Systems is made to illustrate general principles.
- GC28-1685 **SYSTEM/360 DISK OPERATING SYSTEM USER'S GUIDE: CONTROL STATEMENT TECHNIQUES**  
This publication provides guidance in the use of control statements as related to compilations, linkage editing, utilities, sorts, and user programs. It presents tested examples with supporting explanations as an aid to understanding the input stream requirements for processing in the System/360 Disk Operating System environment. The control statements discussed are Job control statements, linkage editor control statements, and operator command. A list of related publications appears in the Preface.
- GC28-1688 **IBM 2260 DISPLAY STATION OPERATOR MANUAL**  
The IBM 2260 Display Station provides visual access to information stored in an IBM System/360. This manual familiarizes the operator with the function of each key on the keyboard. While the keyboard is similar to the familiar typewriter keyboard, the operator will find that seeing the keyed characters appear instantly on a TV-like screen will feel different from typing on paper. The 2260 enters data into the System/360 through the 2848 Display Control. An IBM 1053 Printer can be attached to the 2848 to provide printed copy of the characters displayed on the screen. The functions described refer to Models 1 and 2 of the 2260 Display Station; Models 1,2,3,21 and 22 of the 2848 Display Control; and Model 4 of the 1053 Printer.
- GC28-1689 **AN INTRODUCTION TO THE COMPILE-TIME FACILITIES OF PL/I**  
No abstract available.
- GC28-1699 **A DATA PROCESSING GLOSSARY**  
This glossary contains over 2,000 definitions of terms in the data processing field. It contains definitions from:  
1. The American National Standard Vocabulary for Information Processing, published by the American National Standards Institute, Inc. (ANSI).  
2. The proposed American National Standard Vocabulary.  
3. The IBM Data Communications Glossary (GC28-1666).  
4. The IBM Glossary of Information Processing.
- GC28-1706 **COURSEWRITER III**  
The intent of this publication is to get a new author working on his material as soon as possible. Course material so prepared may not be the ultimate in Coursewriter III Language usage, but it will be available for student use in the shortest possible time. This student text guides the new author of course materials through the language by a step-by-step presentation. The text is not all-inclusive but contains the basics of the Coursewriter III Language and many examples of operation code and author command use. The author is assumed to be familiar with the use of the IBM terminal he is using. If he is not, COURSEWRITER III FOR SYSTEM/360, Student/Monitor User's Guide (GH28-0608) should be studied before going any further. Once this student text has been read, the author may refer to COURSEWRITER III FOR SYSTEM/360, AUTHOR'S GUIDE (GH28-0609) for greater detail on Operation Codes, Author commands, and other related information. Other IBM publications concerned with Coursewriter III, Version 2, include:  
- IBM Terminal Coursewriter III Reference Card for student and monitor users -- GX28-1780  
- IBM Author's Coursewriter III Reference Card -- GX28-1782
- \*N  
- IBM Supervisor's Coursewriter III Reference Card -- GX28-1782  
Coursewriter III Instruction Sheet -- GX28-1750  
- Coursewriter III for System/360 Application Description -- GH28-0587  
- Coursewriter III for System/360 Supervisor's Guide -- GH28-0610  
- Coursewriter III for System/360 System Programmer's Guide -- GX28-0372
- GC28-1729 **A GUIDE TO THE IBM SYSTEM/370 MODEL 155**  
This guide presents hardware, programming systems, and other pertinent information about the IBM System/370 Model 155 that describes its significant, new, features and advantages. Its contents are intended to acquaint the reader with the Model 155 and to be of benefit in planning for its installation.
- GC28-1730 **A GUIDE TO THE IBM SYSTEM/370 MODEL 165**  
This guide presents hardware, programming systems, and other pertinent information about the IBM System/370 Model 165 that describes its significant new features and advantages. Its contents are intended to acquaint the reader with the Model 165 and to be of benefit in planning for its installation.
- GC28-1734 **A GUIDE TO THE IBM SYSTEM/370 MODEL 145**  
This guide presents hardware, programming systems, and other pertinent information about the IBM System/370 Model 145 that describes its significant new features and advantages. Its contents are intended to acquaint the reader with the Model 145 and to be of benefit in planning for its installation.
- GC28-1738 **A GUIDE TO THE SYSTEM/370 MODEL 135**  
This Guide presents hardware, programming systems and other pertinent information about the IBM System/370 Model 135 that describes its significant features and advantages. The contents are intended to acquaint the reader with the Model 135 and to be of benefit in planning for its installation.
- GC28-1740 **BIBLIOGRAPHY OF APPLICATION PUBLICATIONS - STATE AND LOCAL GOVERNMENT INDUSTRY**  
The purpose of this bibliography and the associated classification system is to list and categorize IBM application publications that are pertinent to the state and local government industry.
- GC28-1744 **COURSEWRITER III, VERSION 3 STUDENT TEXT PROGRAM NUMBERS 5734-E13, 5736-E11**  
The intent of this publication is to get a new author working on his material as soon as possible. Course material so prepared may not be the ultimate in Coursewriter III Version 3 Language usage, but it will be available for student use in the shortest possible time. This student text guides the new author of course materials through the language by a step-by-step presentation. The text is not all-inclusive but contains the basics of the Coursewriter III Version 3 language and many examples of operation code and author command use. The text assumes the reader is using an IBM 1050 or 2740 terminal and is familiar with its use. If he is not using either of these terminals, or is not familiar with terminal operation, Coursewriter III, Version 3 Student/Monitor User's Guide (SH28-1010) should be studied before going any further. The text also assumes the reader is using a terminal that is connected to the computer via a telephone line. For terminals using direct wire connection (Modem), none of the dialing procedure is necessary. If an OEM acoustic coupler is being used instead of the data set, refer to the OEM documentation for operational procedures. Once this student text has been read, the author may refer to Coursewriter III, Version 3 Author's Guide (SH28-1009) for greater detail on operation codes, author commands, and other related information. Other IBM publications concerned with coursewriter III, Version 3 include:  
o Coursewriter III, Version 3 Application Description (GH28-0987)  
o Coursewriter III, Version 3 Supervisor's Guide

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- CONTINUED FROM PRIOR PAGE
- o (SH20-1011)
  - o Coursewriter III, Version 3 System Programmer's Guide (LY20-0691 for OS, or LY20-0679 for DOS)
  - o Coursewriter III, Version 3 Operator's Guide (SH20-1022 for OS, or SH20-1012 for DOS)
  - o Coursewriter III, Version 3 Author Reference Card (GX20-1833)
  - o Coursewriter III, Version 3 Student Reference Card (GX20-1834)
  - o Coursewriter III, Version 3 Monitor Reference Card (GX20-1832)
  - o Coursewriter III, Version 3 Supervisor Reference Card (GX20-1835)
  - o Coursewriter III Instruction Sheet (GX20-1831)
- GC20-1747  
BIBLIOGRAPHY OF APPLICATION PUBLICATIONS EDUCATION INDUSTRY  
The purpose of this bibliography and the associated classification system is to list and categorize IBM application publications that are pertinent to the Education Industry. Section I lists these publications by subject area. Section II contains an abstract of each publication in form number sequence.  
A periodic Bibliography of Application Publications (BAP) newsletter is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I is an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the published bibliography.
- GC20-1751  
IBM 3801 OPTICAL MARK READER SYSTEMS DESIGN GUIDE  
This manual is a guide to the design of a data entry system using OMR. The material includes forms design, operations, and programming techniques. It is intended to be used both as an instruction guide and as a resource during systems installation design.
- GC20-8011  
RANDOM NUMBER GENERATION AND TESTING  
Random sampling, simulation studies, and Monte Carlo methods have been in use for many years. Papers describing various aspects of these topics have appeared in technical journals and textbooks available to a relatively small percentage of computer users. Meanwhile, applications requiring random numbers are becoming more important and more common in business and industry as well as purely scientific areas. Therefore, this manual has been prepared which gives the mathematical development of the power residue method, outlines computer techniques for implementing it and also offers brief comments on other methods. An appendix provides programming illustrations for binary and decimal computers.
- GC20-8078  
FORM AND CARD DESIGN  
This manual is divided in two sections--the first devoted to form design and the second to card design. Its use presupposes a knowledge of IBM data processing equipment. It can be used as a guide for individual study or a text for class study.
- SC20-8092  
SYSTEM/360 DOS OPERATION TRAINING MANUAL  
COURSE CODE A3650  
This reusable text introduces the student to many of the procedures to be followed when operating the IBM System/360 Models 25, 30, and 40 in a Disk Operating System batched-job environment. Because the operator's main tasks are concerned with I/O and the console, this text concentrates on these areas
- GC20-8152  
FLOWCHARTING TECHNIQUES  
Adherence to standard techniques for the preparation of flowcharts of data processing systems and procedures greatly increases the effectiveness of communication between the programmer-analyst and the many groups with whom he deals. The manual describes in detail the preparation of system and program flowcharts. The symbols used are those provided by the IBM Flowcharting Template (GX20-8020). A flowchart worksheet (GX20-8021) is a means of standardizing documentation. It provides space for drawing program flowcharts and contains an area for identification of the job, including application, procedure, date, and pagination.
- GC21-5000  
IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT FORTRAN IV (CARD) PROGRAMMER'S GUIDE PROGRAM NUMBER 360P-FO-205  
This publication provides the information necessary for:
1. Translating Card FORTRAN IV source programs into System/360 coding AND
  2. Executing the resulting System/360 coding.
- Included also are techniques and considerations for improving Card FORTRAN IV programs. These are supplementary to the information provided in the language publication, IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SPECIFICATIONS, FORTRAN IV (16K CARD), Form C21-9040. The user should read that publication before reading this one.
- GC21-5001  
IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT DISTRIBUTION PROGRAM SPECIFICATIONS AND OPERATING GUIDE PROGRAM NUMBER 360P-UT-208  
The distribution program issued for maintenance and distribution of the Disk Operating System. This reference publication contains the specifications and operating guide for the distribution program and describes the functions of the program, program deck, control cards, system and deck preparation, error messages and options, and operating instructions.
- GC21-5004  
IBM OS IBM 1295, 1287 AND 1288 OPTICAL READERS DATA MANAGEMENT MACROS AND SERVICES - SYSTEMS REFERENCE LIBRARY MANUAL  
This publication defines and describes the data management macro instructions and services for the IBM Optical Readers. The macro instructions are used in the IBM System/360 Operating System Assembler language. The macro instruction descriptions and definitions apply to the two main configurations of the operating system: systems that provide multiprogramming with a fixed number of tasks (OS MFT); and systems that provide multiprogramming with a variable number of tasks (OS MVT).
- SC21-5005  
IBM DOS RPG II LANGUAGE - SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBER 5736-RG1  
THIS PUBLICATION IS A PLANNING AID ONLY. It is intended for use prior to the availability of the DOS RPG II Compiler. The publication will be updated to become reference documentation when the RPG II language is available.  
This publication contains the fundamentals of the RPG II language along with the RPG II language specifications for the IBM System/360 Disk Operating System. The DOS RPG II compiler and generated program can be used for System/360 Models 25, 30, 40, 50, 65, and 75.  
Job setup information for compiling and executing an RPG II program is also included in the publication.
- GC21-5006  
IBM SYSTEM/360 OPERATING SYSTEM IBM 1419/1275 DATA MANAGEMENT MACRO INSTRUCTIONS AND SERVICES  
This publication defines and describes the data management macro instructions and services for the IBM 1419. The macro instructions are available in the IBM System/360 Operating System. The macro instruction descriptions and definitions apply to the three main configurations of the operating system: systems with the primary control program (PCP); systems that provide multiprogramming with a fixed number of tasks (MFT or Option 2); and systems that provide multiprogramming with a variable number of tasks (MVT or Option 4).
- GC21-5008  
IBM SYSTEM/360 OPERATING SYSTEM PLANNING FOR THE IBM 3211 PRINTER DATA MANAGEMENT MACRO INSTRUCTIONS AND SERVICES  
This publication is a planning aid only. It is intended for use prior to the availability of the data management macro instructions for the IBM 3211 Printer and shall be replaced by reference documentation when that support becomes available.  
This publication describes macro instructions and services provided under IBM System/360 Operating System for use with the IBM 3211 Printer.
- SC21-5013  
IBM SYSTEM/360 DISK OPERATING SYSTEM IBM 1288 BASIC UNFORMATTED READ SYSTEM: A DATA CAPTURE UTILITY PROGRAM PROGRAM NUMBER 5736-UT1  
This publication is a reference manual designed to assist you in implementing data entry applications using the IBM 1288 Optical Page Reader. The data must be printed or typed in either USASCSOCR Size A or ISOOCR-A size 1 font in the unformatted mode.  
This manual describes the control and functions of 1288 Basic Unformatted Read System, which include:  
- Input and output
- CONTINUED FROM PRIOR COLUMN

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- Error handling routines
  - Job control language
  - The program operates under the IBM System/360 Disk Operating System with either BATCH or Multiple Programming Support (MPS).
- SC21-5014  
IBM SYSTEM/360 OPERATING SYSTEM  
IBM 1288 BASIC UNFORMATTED READ SYSTEM:  
A DATA CAPTURE UTILITY PROGRAM  
PROGRAM NUMBER 5736-UT3  
This publication is a reference manual designed to assist you in implementing data entry applications using the IBM 1288 Optical Page Reader. The data must be printed or typed in either USACSOCR size A or ISO OCR-A size 1 font in the unformatted mode.  
This manual describes the control and functions of the 1288 Basic Unformatted Read System, which include:  
Input and output.  
Error handling routines.  
Job control language.  
The program operates under the IBM System/360 Operating System with primary control program (PCP), multi-programming with a fixed number of tasks (MPT), or multi-programming with a variable number of tasks (MVT) supervisor design.
- GC21-5019  
IBM SYSTEM/360 DOS 1288 BASIC UNFORMATTED READ SYSTEM  
A DATA CAPTURE UTILITY PROGRAM  
PROGRAM NUMBER 5736-UT1  
This Program Product Specifications (PPS) describes the warranted specifications of the subject Program Product.
- GC21-5020  
IBM SYSTEM/360 OPERATING SYSTEM IBM 1288 BASIC UNFORMATTED  
READ SYSTEM PROGRAM NUMBER 5734-UT3  
This Program Product Specifications (PPS) describes the warranted specifications of the subject Program Product.
- GC21-5021  
IBM DOS RPG II GENERAL INFORMATION MANUAL  
PROGRAM NUMBER 5736-RG1  
This publication describes the basic RPG II functions and provides information on performance and compatibility. The DOS RPG II compiler and generated program can be used for System/360 Models 25, 30, 40, 50, 65, and 75.
- GC21-5027  
IBM SYSTEM/360 OPERATING SYSTEM: PLANNING FOR THE IBM 3505  
CARD READER AND 3525 CARD PUNCH  
This publication is a planning aid only. It is intended for use prior to the availability of the data management macro instructions for both the IBM 3505 Card Reader and the IBM 3525 Card Punch, and will be replaced by reference documentation when the support is made available.  
The content of this book describes macro instructions and services that are provided under IBM System/360 Operating System for use with both the 3505 Card Reader and the 3525 Card Punch.
- GC21-5028  
IBM DISK OPERATING SYSTEM RPG II  
PROGRAM PRODUCT SPECIFICATIONS  
PROGRAM NUMBER 5736-RG1  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- SC21-5033  
IBM SYSTEM/360 DISK OPERATING SYSTEM  
RPG TO RPG II CONVERSION REFERENCE MANUAL  
This manual explains the differences between the Disk Operating System RPG and RPG II languages. Differences which are fully diagnosed, partially diagnosed, and not diagnosed are described. A recommended conversion procedure from RPG to RPG II is explained as well as procedures for converting each difference.  
This manual is intended for programmers experienced in using the RPG language who plan to use their RPG programs under the RPG II compiler.
- GC21-5034  
IBM SYSTEM/360 DISK OPERATING SYSTEM: PLANNING FOR THE IBM  
3505 CARD READER AND THE IBM 3525 CARD PUNCH  
This publication is a planning aid only. It is intended for use prior to the availability of the IBM 3505 Card Reader and the IBM 3525 Card Punch. It will be replaced by reference documentation when these devices become available.  
This publication describes the programming support provided under the IBM System/360 Disk Operating System for use with the IBM 3505 Card Reader and the IBM 3525 Card Punch.
- GC21-5047  
IBM 2596 CARD READ PUNCH DOS PROGRAM PLANNING GUIDE  
This publication describes the programming support provided under IBM DOS for the IBM 2596 Card Read Punch attached to IBM System/360 or IBM System/370. It is provided for use by the system programmer as a planning aid only and is intended for use prior to the availability of the IBM 2596 Card Read Punch. Information in this publication includes a discussion of the DOS support of the 2596 under the Logical Input/Output Control System (LIOCS) and the 2596 performance characteristics.  
Before using this publication, the reader should be familiar with the following publications:  
DOS Supervisor and I/O Macros, GC24-5037  
DOS System Control and Service, GC24-5036  
DOS Operating Guide, GC24-5022  
DOS System Generation, GC24-5033
- GC21-5052  
IBM DISK OPERATING SYSTEM RPG II AUTO REPORT FEATURE  
GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5736-RG1  
This manual introduces the function of the DOS RPG II Auto Report Feature for potential customer management, customer analysts, and for IBM personnel involved in marketing this feature.  
Auto Report is a DOS RPG II program product feature. This feature extends the capabilities of the RPG II language and aids the RPG II user by reducing the programming effort required to code and debug his application programs.  
This publication provides general descriptions of the four functions of the Auto Report Feature; discusses the compatibility and performance of Auto Report; and has an example showing an Auto Report job, from the coding needed to produce a report, to the specifications generated by Auto Report for that job, and finally to the report produced as output. Prerequisite publications are:  
o Concepts and Facilities for DOS and TOS (GC24-5030)  
o Introduction to RPG II (GC21-7514)
- SC21-5056  
IBM DOS RPG II AUTO REPORT FEATURE - REFERENCE MANUAL  
PROGRAM NUMBER 5736-RG1  
This manual contains three types of information about the RPG II Auto Report Feature:  
1. Introductory and tutorial information on Auto Report for beginning users.  
2. Reference information on Auto Report specifications for more experienced users.  
3. Information on the internal operation of the Auto Report Feature for personnel with maintenance responsibility (replaces the program logic manual).  
The Auto Report Feature is a program that operates prior to the RPG II compiler and that calls the compiler when it has finished processing. Auto Report generates complete RPG II source specifications for simple reports from simplified RPG II output specifications, standard RPG II specifications, and a special statement that copies previously cataloged specifications from a source library. Auto Report also provides for selection and sorting of input records prior to processing by the RPG II object program.  
Readers of this manual must have some knowledge of RPG II.
- GC21-5063  
DOS PROGRAMMING SUPPORT FOR IBM 2596 CARD READ PUNCH  
This publication is intended for people who implement IBM System/360 DOS configurations. It is intended for use upon availability of the IBM 2596 Card Read Punch. This publication describes the DOS support of the 2596 under the Logical Input/Output Control System (LIOCS) and provides 2596 performance information.  
Before using this publication, you should be familiar with the information in the following publications:  
o DOS Operating Guide, GC24-5022  
o DOS Supervisor and I/O Macros, GC24-5037  
o DOS System Control and Service, GC24-5036  
o DOS System Generation, GC24-5033  
o IBM 2596 Card Read Punch Programmer's Reference Manual and Operator's Guide, GA21-9144
- GC21-7514  
INTRODUCTION TO RPG II  
The purpose of this manual is to teach the RPG II programming language. The manual is written not only for the person who has some previous knowledge of computer programming, but also for the person who knows little or nothing about data processing.  
The first chapter is solely for the beginner. It contains basic information about computers and data processing. The remainder of the book explains the RPG II specifications and the RPG II specifications sheets. Many job-related examples are used to show how the RPG II specifications apply to a real situation. The manual concludes with a sample job, which summarizes the duties of

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- an RPG II programmer.  
After completing this manual, the reader should be able to use the various systems reference manuals to write basic RPG II programs.
- GC21-9040  
**IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SPECIFICATIONS FORTRAN IV (16K CARD)**  
This publication describes and illustrates the use of the Basic Programming Support Card FORTRAN IV language for the IBM System/360. The reader is presumed to have some knowledge of an existing FORTRAN language.  
The Basic Programming Support FORTRAN IV language is a symbolic programming language. It parallels the symbolism and format of mathematical notation. In addition, many programming features and facilities are available for expressing the method of solution of a mathematical problem as a meaningful FORTRAN program.
- GC22-6820  
**IBM SYSTEM/360 INSTALLATION MANUAL - PHYSICAL PLANNING**  
This manual contains preliminary physical information for installing IBM System/360, including floor planning and electrical, environmental, and structural requirements. It discusses the physical characteristics of each unit and their effect on installation requirements. Detailed cable and location charts are included, together with illustrations and dimensions, on all cable connectors used in the system.
- GC22-6922  
**IBM 2911 MODELS 1, 2, AND 5 AND IBM 2989 MODEL 8, INSTALLATION MANUAL - PHYSICAL PLANNING**  
This bulletin contains all physical planning data necessary to install the IBM 2911 Manual Switching Unit, Models 1, 2, and 5 and the IBM 2989 Remote Switching Console, Model 8. If a unit is to be installed in conjunction with a computer system, specifications for the most critical unit must be met.  
Data follows the same format and uses the same standardized symbols as IBM SYSTEM/360 INSTALLATION MANUAL - Physical Planning, Order Number GC22-6820.
- GC22-6939  
**IBM SYSTEM/360 SPECIAL FEATURE: 2600 CRT PRINTER INSTALLATION MANUAL PHYSICAL PLANNING**  
This manual contains physical planning data necessary to install the IBM 2600 CRT Printer. The requirements of the unit are subject to modification by engineering developments. Note that in any multiple-equipment installation, specifications for the most critical unit must be met.  
Data is given in the standardized format and symbology found in IBM SYSTEM/360 INSTALLATION MANUAL - PHYSICAL Planning, Order Number GC22-6820, which is a required
- GC22-7004  
**IBM SYSTEM/370 INSTALLATION MANUAL--PHYSICAL PLANNING SYSTEMS REFERENCE LIBRARY**  
This manual contains preliminary physical information for installing the IBM System/370, including floor planning and electrical, environmental, and structural requirements. It describes the physical characteristics of each machine and their effect on installation requirements.  
This publication is intended for use by customer and IBM installation planning personnel, as well as architects and electrical and building contractors.
- GC24-3320  
**IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SORT/MERGE PROGRAMS SPECIFICATIONS PROGRAMS:**  
1 - CHANNEL - 360P-SM-043  
2 - CHANNEL - 360P-SM-044  
This publication describes the following:  
1. Minimum machine requirements.  
2. Program capabilities.  
3. Required control statements.  
4. User-written routines.
- GC24-3321  
**IBM SYSTEM/360 BASIC OPERATING SYSTEM SORT/MERGE PROGRAM SPECIFICATIONS**  
**PROGRAM NUMBER 360P-SM-300**  
This publication describes the IBM System/360 Basic Operating System, Sort/Merge Program. It contains the following information:  
1. Minimum machine requirements for sorting or merging records with this program.  
2. Program capabilities.  
3. A description of the control statements required to define specific sort or merge operations.  
4. A description of the facilities provided for inserting user-written routines into the program.
- GC24-3337  
**IBM SYSTEM/360 OPERATING SYSTEM REPORT PROGRAM GENERATOR LANGUAGE SPECIFICATION SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBER 360S-RG-030**  
This reference publication contains fundamentals of RPG programming and language specifications for the IBM System/360 Operating System RPG. Also included is the job setup information for executing RPG.
- GC24-3343  
**IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT AUTOTEST SPECIFICATIONS (8K TAPE)**  
**PROGRAM NUMBER 360P-PT-045**  
This reference publication describes in detail the testing services provided by the Basic Programming Support (BPS) Tape Autotest (8K Tape) program and the control cards necessary to use the services. Although one of the 8K TPE BPS programs, Autotest requires at least 16K positions of main storage for execution. The following features are described: Autopatch, display, panel, card list, Autotest Output Tape, the Autotest Card to Tape utility, the Autotest Tape to Printer utility, normal and abnormal dumps, and Disaster Continue. Special Autotest requirements of Job Control are also presented.  
The reader should be familiar with IBM SYSTEM/360 PRINCIPLES OF OPERATION, Form A22-6821 and IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT PROGRAMMER'S GUIDE (8K TAPE), Order Number GC24-3354.
- GC24-3345  
**IBM 1401/1460 TIMING PROGRAMS FOR IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SORT/MERGE PROGRAMS (8K TAPE)**  
**PROGRAM 1401-LM-078, VERSION 2 (2401-2404)**  
**PROGRAM 1401-LM-080, VERSION 1 (2415)**  
This publication contains the specifications and operating procedures for the IBM 1401 and 1460 timing programs used to estimate the amount of time required to sort records with an IBM System/360 Basic Programming Support 1-channel or 2-channel Sort/Merge Program (8K Tape).  
The following information is included in this publication:  
1. Minimum machine requirements for estimating times with these programs.  
2. A description of the user-prepared information cards required to define the proposed sort operation.  
3. The procedure to follow for executing the timing programs.  
The user of this publication should be familiar with IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SORT/MERGE PROGRAMS (8K Tape), Order Number GC24-3320.
- GC24-3354  
**IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC TAPE SYSTEM PROGRAMMER'S GUIDE**  
**PROGRAM NUMBER 360P-AS-091**  
This reference publication describes the Basic Tape System and its use. The reader should have a basic knowledge of System/360. The major topics explained are:  
OPERATION WITH THE CONTROL PROGRAMS: Supervisor interruption handling, operator communication, the Channel Scheduler, and the communication region; Job Control card formats and symbolic I/O assignment; IPL and the Program Loader.  
INPUT/OUTPUT CONTROL SYSTEM (IOCS): Labels, file and record processing.  
BASIC TAPE SYSTEM: Job control with the System Tape, assembly of a Supervisor, Linkage Editor, and System Tape building, maintenance, and service.
- GC24-3355  
**IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT ASSEMBLER WITH INPUT/OUTPUT MACROS (TAPE) SPECIFICATIONS SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBER 360P-AS-021**  
This reference publication describes the basic programming support tape assembler language and the input/output (I/O) macros supplied by IBM for use in programs written in the assembler language. The general features of the assembler language are described first, followed by a description of each of the three types of assembler language statements: machine-instruction, Assembler-instruction, and macro instruction statements. The description of macro instructions consists of a description of each of the IBM-supplied I/O macros.  
The reader should be familiar with the information presented in the publications: IBM SYSTEM/360 PRINCIPLES OF OPERATION, GA22-6821, IBM SYSTEM/360 Basic Programming Support, Programmer's Guide (GC24-3354) and IBM SYSTEM/360 BASIC OPERATING SYSTEM AND IBM SYSTEM/360 Basic Programming Support, Macro Definition Language, Order Number GC24-3364.

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GC24-3361

IBM SYSTEM/360 BASIC OPERATING SYSTEM ASSEMBLER WITH INPUT/OUTPUT MACROS SPECIFICATIONS  
PROGRAM NUMBER 360B-AS-309  
This reference publication describes the assembler language and the input/output (I/O) macros supplied by IBM for use in writing programs for 8K disk-oriented System/360 installations. The general features of the assembler language are described first, followed by a description of each of three types of assembler language statements: machine-instruction, assembler-instruction, and macro instruction statements. The description of the macro instructions consists of a description of each of the IBM-supplied I/O macros.  
The reader should be familiar with the information presented in the publications:  
IBM System/360 Principles of Operation, (GA22-6821);  
IBM SYSTEM/360 BASIC OPERATING SYSTEM, PROGRAMMER'S Guide, Order Number GC24-3372  
IBM SYSTEM/360 BASIC OPERATING SYSTEM AND IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT, MACRO DEFINITION Language, Order Number GC24-3364.

Basic Operating System provides stacked-job processing capability, controls and input/output; and provides for continuous operation of all programs run in its environment.  
This Programmer's Guide includes descriptions of the control programs, service, programs, and system facilities supported by IBM. A comprehensive introduction gives an over-all picture of the entire system. Detailed information is given on these major topics:  
1. Operation with the System Control Programs  
2. Using the System Service Programs  
3. Data Management  
The prerequisite for a thorough understanding of this manual is a basic knowledge of System/360 machine concepts and instructions.

GC24-3363

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT DASD UTILITY PROGRAMS SPECIFICATIONS  
This reference publication describes the IBM System/360 Basic Programming Support Direct Access Storage Device Utility Programs. The programs described are:

PROGRAM NAME	ORDER NUMBER
<b>SINGLE-TRANSFER UTILITY PROGRAMS</b>	
Card to Disk, Version 3	360P-UT-863
Disk to Card, Version 3	360P-UT-864
Disk to Disk, Version 3	360P-UT-867
Disk to Printer, Version 3	360P-UT-873
Disk to Tape, Version 3	360P-UT-865
Tape to Disk, Version 3	360P-UT-866
<b>SPECIAL-PURPOSE UTILITY PROGRAMS</b>	
Alternate Track Assignment (2311) Version 3	360P-UT-898
16K Alternate Track Assignment (2311/2314), Version 1	360P-UT-207
Alternate Track Assignment (2321), Version 1	360P-UT-212
Clear Disk, Version 3	360P-UT-868
Copy Data Cell to Tape, and Restore Tape to Data Cell, Version 1	360P-UT-871
Copy Disk to Card, and Restore Card to Disk, Version 1	360P-UT-862
Copy Disk to Disk, Version 1	360P-UT-872
Copy Disk to Tape, and Restore Tape to Disk, Version 1	360P-UT-861
Initialize Data Cell, Version 1	360P-UT-204
Initialize Disk (2311), Version 4	360P-UT-869
16K Initialize Disk (2311/2314), Version 1	360P-UT-206
Multiple Disk to Printer, Version 2	360P-UT-203

These programs can be received by ordering individually numbered program packages. Each program is shipped as a complete entity, in object form, ready to perform its function. Other BPS Utility Programs have been reissued in the publications: IBM SYSTEM/360 BASIC SPECIFICATIONS, GC24-5826. These publications support only the latest version of the program.  
The reader should be familiar with the information presented in the publication: IBM SYSTEM/360 BASIC Operating System, Programmer's Guide, GC24-3372 and IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT DASD UTILITY PROGRAMS Operation Guide, GC24-3392

GC24-3364

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC OPERATING SYSTEM MACRO DEFINITION LANGUAGE  
This reference publication describes the macro definition language for the IBM System/360 Basic Programming Support and the IBM System/360 Basic Operating System. The language described in this publication can be used to facilitate the writing of an assembler language program.  
The reader should be familiar with the information presented in these publications: IBM SYSTEM/360 PRINCIPLES OF OPERATION, Order No. GA22-6821; IBM SYSTEM/360 BASIC OPERATING SYSTEM, ASSEMBLER WITH INPUT/OUTPUT MACROS, Order No. GC24-3361; and IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT, ASSEMBLER WITH INPUT/OUTPUT MACROS (TAPE), Order No. GC24-3355. For a list of associated System/360 publications, see the IBM SYSTEM/360 BIBLIOGRAPHY, Order No. GA22-6822.

GC24-3372

IBM SYSTEM/360 BASIC OPERATING SYSTEM PROGRAMMER'S GUIDE  
This reference publication describes the IBM System/360 Basic Operating System. The system is a set of control programs and processing programs provided for smaller configurations of the IBM System/360. Utilizing IBM 2311 Disk Storage for on-line program residence, IBM System/360

GC24-3374

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SPECIFICATIONS REPORT PROGRAM GENERATOR (CARD)  
This reference publication contains complete programming specifications for the IBM System/360 Report Program Generator (Card). Included are the basic function of RPG for readers with unit record experience who are not familiar with RPG.

GC24-3377

IBM 1401/1460 TIMING PROGRAM FOR IBM BASIC OPERATING SYSTEM/360 SORT/MERGE PROGRAM PROGRAM 1401-LM-079  
This publication contains the specifications and operating procedures for the IBM 1401 and 1460 timing program used to estimate the amount of time required to sort records with the IBM Basic Operating System/360 8K Disk Sort/Merge program.  
The following information is included in this publication:  
1. Minimum machine requirements for estimating times with this program.  
2. A description of the user-prepared information cards required to define the proposed sort operation.  
3. The procedure to follow for executing the timing program.  
The user of this publication should be familiar with IBM BASIC OPERATING SYSTEM/360 SORT/MERGE PROGRAM (8K DISK), C24-3321.

GC24-3378

IBM SYSTEM/360 BASIC OPERATING SYSTEM SPECIFICATIONS AUTOTEST (8K DISK)  
PROGRAM NUMBER 360B-PT-306  
This reference publication describes in detail the testing services provided by Disk Autotest in the Basic Operating System (8K Disk) and the control cards necessary to use the services. Although Disk Autotest is a BOS (8K Disk) program, it requires a minimum of 16K positions of main storage for execution. The following services are discussed: Autopatch, display, panel, The Autotest Card to Tape (Variable) utility, the normal and abnormal end of job dumps including the symbolic dump, testing immediately following an assembly, and separate assemblies and tests. Special Autotest requirements for Job Control are also presented.  
The reader should be familiar with IBM SYSTEM/360 Principles of Operation, (GA22-6821), IBM Basic Operating System/360 Programmer's Guide (8K Disk), GC24-3372; IBM BASIC OPERATING SYSTEM/360 UTILITY PROGRAMS (8K DISK), GC24-3409, and IBM Basic Operating System/360 Assembler with Input/Output Macros (8K Disk), Order Number GC24-3361.

GC24-3387

IBM SYSTEM/360 BASIC OPERATING SYSTEM REPORT PROGRAM GENERATOR SPECIFICATIONS  
PROGRAM NUMBER 360B-RG-307  
This reference publication contains fundamentals of RPG programming and language specifications for the IBM System/360 Basic Operating System Report Program Generator. For information on the Basic Operating System that is beyond the purpose of this language publication, see IBM SYSTEM/360 Basic Operating System Programmer's Guide, Order Number GC24-3372.

GC24-3391

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC TAPE SYSTEM OPERATING GUIDE PROGRAM NUMBER 360P-AS-021 RPG PROGRAM NUMBER 360P-RG-201  
This reference publication discusses briefly the overall concepts of using the various programs in the Basic Tape System. It describes the function and operation of the Control Programs used in conjunction with the IBM-supplied system tape or user's object program. A section listing messages provided by the programs or routines is included. System/operator communication is discussed, and a section of reference charts for system/360 coding is also included.  
Each individual program section gives the specific operating procedure for that particular program, supplying information such as: description of card decks, and procedures to be followed.

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GC24-3392

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT DASD UTILITY PROGRAMS OPERATING GUIDE

This publication is intended to be used as a guide in operating the following direct access storage device (DASD) utility programs:

PROGRAM NAME	ORDER NUMBER
<b>SINGLE-TRANSFER UTILITY PROGRAMS</b>	
Card to Disk, Version 3	360P-UT-063
Disk to Card, Version 3	360P-UT-064
Disk to Disk, Version 3	360P-UT-067
Disk to Printer, Version 3	360P-UT-073
Disk to Tape, Version 3	360P-UT-065
Tape to Disk, Version 3	360P-UT-066
<b>SPECIAL-PURPOSE UTILITY PROGRAMS</b>	
Alternate Track Assignment (2311), Version 3	360P-UT-098
16K Alternate Track Assignment (2311/2314), Version 1	360P-UT-207
Alternate Track Assignment (2321), Version 1	360P-UT-212
Clear Disk, Version 3	360P-UT-068
Copy Data Cell to Tape, and Restore Tape to Data Cell, Version 1	360P-UT-071
Copy Disk to Card, and Restore Card to Disk, Version 1	360P-UT-062
Copy Disk to Disk, Version 1	360P-UT-072
Copy Disk to Tape, and Restore Tape to Disk, Version 1	360P-UT-061
Initialize Data Cell, Version 1	360P-UT-204
Initialize Disk, Version 4	360P-UT-069
16K Initialize Disk (2311/2314), Version 1	360P-UT-206
Multiple Disk to Printer, Version 2	360P-UT-203

These programs can be received by ordering individually numbered program packages. Each program is shipped as a complete entity, in object form, ready to perform its function. Other BPS utility programs have been reissued in the publication: IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT CARD AND TAPE UTILITY PROGRAMS OPERATING GUIDE, GC24-5027. These publications will support only the latest versions of the programs.

The reader should be familiar with the information presented in the publications: IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT, DASD UTILITY PROGRAMS SPECIFICATIONS, GC24-3363, IBM SYSTEM/360 Basic Operating System Programmer's Guide, (GC24-3372), and IBM System/360 Principles of Operation, (GA22-6821).

GC24-3396

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT UNIVERSAL CHARACTER SET UTILITY PROGRAM OPERATING GUIDE  
PROGRAM NUMBER 360P-UT-048

This reference publication contains the OPERATING GUIDE for the Universal Character Set Utility Program used to load the read/write storage units in the IBM 2821 Control Unit. Included in the manual are a description of the UCS program deck, control cards, system and deck preparation, error waits and options, and operating instructions. An APPENDIX contains related information including standard train/chain arrangements and the Extended Binary Coded Decimal Interchange Code.

The user of this publication should be familiar with IBM 2821 Control Unit, Order Number GA24-3312, and IBM 1403 Printer, Order Number GA24-3073.

GC24-3398

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT INPUT/OUTPUT 1412/1419 SPECIFICATIONS AND OPERATING GUIDE  
PROGRAM NUMBER 360P-IO-058

This reference publication describes programming specifications and operating procedures for the Input/Output control program supplied by IBM for System/360 applications using the IBM 1412 and 1419 Magnetic Character Readers. Detailed information is given on the programming required for all I/O operations on these devices as well as for other services of the control program. Also included are operator instructions and diagnostic messages.

GC24-3400

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT INPUT/OUTPUT 1231 SPECIFICATIONS AND OPERATING GUIDE  
PROGRAM NUMBER: 360P-IO-060

This reference publication contains a description of the Input/Output program for the IBM 1231 Optical Mark Page Reader, and information concerning the instructions required to use the 1231 as an input device to an IBM System/360.

This reference publication also describes operating procedures for the Input/Output 1231 program. This program is used with the IBM 1231 Optical Mark Page Reader attached to an IBM System/360 Model 30, 40, 50, or 65.

The reader should be familiar with the information presented in these publications: IBM SYSTEM/360 PRINCIPLES of Operation (GA22-6821), IBM System/360 Basic PROGRAMMING SUPPORT, BASIC TAPE SYSTEM PROGRAMMER'S GUIDE,

(GC24-3354), and IBM System/360 Basic Operating System Programmer's Guide, (GC24-3372). The publication IBM 1231 NI Optical Mark Page Reader, (GA21-9031), containing information that will be helpful to the 1231 programmer.

GC24-3409

IBM SYSTEM/360 BASIC OPERATING SYSTEM UTILITY PROGRAMS SPECIFICATIONS  
PROGRAM NUMBERS 360B-UT-300, 360B-UT-301

This reference publication describes the IBM System/360 Basic Operating System Utility Programs. The programs described are:

GROUP 1	GROUP 2
Program Number	Program Number
360B-UT-300	360B-UT-301
Card-to-Disk Program	Card-to-Tape Program
Card-to-Printer and/or Punch Program	Disk-to-Tape Program
Disk-to-Card Program	Tape-to-Card Program
Disk-to-Disk Program	Tape-to-Disk Program
Disk-to-Printer Program	Tape-to-Printer Program
Clear Disk Program	Tape-to-Tape Program
VTOC Display Program	Tape Compare Program

These programs are ordered by the above group program numbers and are distributed on the disk pack.

The reader should be familiar with the information presented in the publications IBM SYSTEM/360 BASIC OPERATING System, Programmer's Guide (GC24-3372), IBM System/360 BASIC OPERATING SYSTEM, ASSEMBLER WITH INPUT/OUTPUT MACROS (GC24-3361), IBM System/360 Basic Operating System, Operating Guide, Control Programs and Assembler Order Number GC24-3450.

The reader will find error messages for these utility programs in IBM SYSTEM/360 BASIC OPERATING SYSTEM, OPERATING Guide: Operator Messages (GC24-5024)

GC24-3413

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SORT/MERGE PROGRAMS OPERATING GUIDE PROGRAMS:

- 1 - CHANNEL - 360P-SM-043
- 2 - CHANNEL - 360P-SM-044

This reference publication contains the following information:

1. The minimum machine requirements for sorting or merging records with the Sort/Merge Programs.
2. A description of the program packages.
3. A description of the procedure for modifying the program decks.
4. The instructions for running a Sort/Merge Program.
5. The programmed messages then can occur while the program is being run.

GC24-3414

IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEM ASSEMBLER LANGUAGE

This reference publication contains specifications for the IBM System/360 Disk and Tape Operating Systems Assembler Language (including macro instructions and conditional assembly facilities).

The assembler language is a symbolic programming language used to write programs for the IBM System/360. The language provides a convenient means for representing the machine instructions and related data necessary to program the IBM System/360. The IBM System/360 Disk and Tape Operating Systems Assembler Programs process the language and provide auxiliary functions useful in the preparation and documentation of a program, and include facilities for processing macro instructions.

Part 1 of this publication is an introduction to the assembler language.

Part 2 describes the basic functions of the assembler language.

Part 3 describes the conditional assembly and macro facilities in the assembler language.

GC24-3417

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT AUTOTEST OPERATING GUIDE  
PROGRAM NUMBER 360P-PT-045

This reference publication contains information the operator must know to test an object program using the 8K Tape Autotest Program. Autotest can be executed only on a machine with a minimum of 16K positions of main storage.

The reader should be familiar with the IBM System/360 publications: IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT AUTOTEST SPECIFICATIONS, Order No. GC24-3343; IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC TAPE SYSTEM, Order No. GC24-3391; IBM SYSTEM/360 MODEL 30 OPERATOR'S GUIDE, Order No. GA24-3373.

For a list of other associated System/360 publications, see the IBM SYSTEM/360 BIBLIOGRAPHY, Order No. GA22-6822.

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GC24-3418

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT REPORT PROGRAM GENERATOR (TAPE) SPECIFICATIONS PROGRAM NUMBER 360P-RG-201  
This reference publication contains complete programming specifications for the IBM System/360 Report Program Generator (Tape). Included are the basic functions of RPG for readers with tape experience who are not familiar with RPG. For more detailed information regarding the generation of system tapes and input/output facilities provided, refer to the publication IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT, Basic Tape System Programmer's Guide, Order Number GC24-3354

GC24-3427

IBM SYSTEM/360 DISK OPERATING SYSTEM DATA MANAGEMENT CONCEPTS SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBER 360N-CI-453  
Data management pertains to the organization of data files and the means of accessing data. Data formats, labeling procedures, and access methods are of prime concern. Specific topics in this publication are PIOCS and LIOCS, record formats and record blocking, SAM, DAM, ISFMS, DASD devices, DASD initialization and maintenance, and tape and DASD labels. Appendices include standard volume and file labels, ASCII-EBCDIC correspondence, and a table showing access method nomenclature used by the various languages that DOS supports.

This reference publication is intended for both systems and application programmers who code in assembler language. A prerequisite publication is IBM SYSTEM/360 PRINCIPLES OF OPERATION (GA22-6821). Supplementary information is contained in these publications:  
DOS SUPERVISOR AND I/O MACROS (GC24-5037)  
IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS ASSEMBLER SPECIFICATIONS (GC24-3414)

NOTE: Although titles of some DOS publications have been simplified, the change does not affect the contents of the publications.

For a list of other System/360 and System/370 publications and their abstracts, refer to IBM SYSTEM/360 AND SYSTEM/370 BIBLIOGRAPHY (GA22-6822).

GC24-3430

IBM SYSTEM/360, TAPE OPERATING SYSTEM, DATA MANAGEMENT CONCEPTS  
This reference publication contains a discussion of the data management facilities inherent in the Tape Operating System. It describes the Input/Output Control System (IOCS), the file formats, and the labeling procedures available with the system.

The following publications are recommended as prerequisite readings:  
IBM System/360 Principles of Operation (GA22-6821)  
IBM SYSTEM/360 TAPE OPERATING SYSTEM, SYSTEM CONTROL AND System Service Programs (GC24-5034).

GC24-3433

IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS COBOL LANGUAGE SPECIFICATIONS COBOL DOS PROGRAM NUMBER 360N-CB-452 COBOL TOS PROGRAM NUMBER 360N-CB-402  
This publication provides the programmer with rules for writing programs in COBOL for IBM System/360 Disk and Tape Operating Systems. Users unacquainted with COBOL should read the programmed instruction textbook COBOL PROGRAM Fundamentals, (SR29-0205), with its reference handbook, (SR29-0206).

GC24-3437

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT INPUT/OUTPUT 1418/1428 SPECIFICATIONS AND OPERATING GUIDE PROGRAM NUMBER 360P-IO-059  
This publication describes the input/output 1418/1428 program (I/O 1418/1428 Program) supplied by IBM for System/360 applications using the IBM 1418 or 1428 Optical Character Readers. The I/O 1418/1428 Program provides complete interruption-handling capability, controls all input/output, and controls of document buffer for maximum throughput. This reference publication also describes operating procedures for the Input/Output 1418/1428 program.

GC24-3438

IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS TAPE SORT/MERGE PROGRAM PROGRAM NUMBERS 360N-SM-400 360N-SM-400  
This publication explains the following:  
1. Minimum machine requirements.  
2. Program capabilities.  
3. Required control statements.  
4. User-written routines.

GC24-3439

IBM 1401/1460 TIMING PROGRAM FOR IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS TAPE/SORT MERGE PROGRAM PROGRAM NUMBER 1401-LM-010 (2401-2404) PROGRAM NUMBER 1401-LM-012 (2415)  
This publication contains the specifications and operating procedures for the IBM 1401 and 1460 timing program used to estimate the amount of time required to sort tape records with the IBM SYSTEM/360 Disk Operating System Tape Sort/Merge program or the IBM System/360 Tape Operating System Tape Sort/Merge Program.

The following information is included in this publication:  
1. Minimum machine requirements for estimating times with these programs.  
2. A description of the user-prepared information cards required to define the proposed sort operation.  
3. The procedure to follow for executing the timing program.  
The user of this publication should be familiar with IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS, TAPE SORT/MERGE program specifications, order number (GC24-3438).

GC24-3441

IBM SYSTEM/360 TAPE OPERATING SYSTEM AUTOTEST SPECIFICATIONS PROGRAM NUMBER 360N-PT-407  
This reference publication describes the testing service provided by the IBM System/360 Tape Operating System Autotest program. Programmer-oriented diagnostic messages are included in this publication, as well as formats and examples of control cards for both job control and Autotest.

GC24-3444

IBM SYSTEM/360 DISK OPERATING SYSTEM DISK SORT/MERGE PROGRAM PROGRAM NUMBER 360N-SM-450  
This publication describes the IBM System/360 Disk Operating System Sort/Merge Program and contains the following information:

1. Minimum machine requirements for sorting or merging records with this program.
2. Program capabilities.
3. A description of the control statements required to define specific sort or merge operations.
4. A description of the facilities provided for inserting user-written routines into the program.

GC24-3445

IBM 1401/1460 TIMING PROGRAM FOR IBM SYSTEM/360 DISK OPERATING SYSTEM SORT/MERGE PROGRAM PROGRAM NUMBER 1401-LM-011  
This publication contains the specifications and operating procedures for the IBM 1401 and 1460 timing program used to estimate the amount of time required to sort records with the IBM System/360 Disk Operating System Sort/Merge program.

The following information is included in this publication:  
1. Minimum machine requirements for estimating times with this program.  
2. A description of the user-prepared information cards required to define the proposed sort operation.  
3. The procedure to follow for executing the timing program.  
The user of this publication should be familiar with IBM SYSTEM/360 DISK OPERATING SYSTEM, SORT/MERGE PROGRAM specifications, (GC24-3444).

GC24-3450

IBM SYSTEM/360 BASIC OPERATING SYSTEM OPERATING GUIDE SYSTEMS REFERENCE LIBRARY  
This publication is divided into five sections:  
SECTION 1 presents the operating procedures for the IBM SYSTEM/360 Basic Operating System Control Programs and Assembler.  
SECTION 2 presents the operating procedures for testing an object program using the IBM System/360 BOS Autotest program.

SECTION 3 presents the operating procedures for programs written in the IBM System/360 BOS Report Program Generator (RPG) language.

SECTION 4 presents the operating procedures for using the IBM System/360 BOS Sort/Merge program and a description of the procedure to follow when cataloging the BOS Sort/Merge program and user routines into the disk-resident core-image library.

SECTION 5 presents the operating procedures for both groups of utility programs in the IBM System/360 Basic Operating System.

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GC24-3464

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT REPORT PROGRAM GENERATOR (CARD) OPERATING GUIDE SYSTEMS REFERENCE LIBRARY  
This reference publication describes the operating procedures for the IBM System/360 Basic Programming Support, Report Program Generator (Card). It contains this information:

1. A description of the procedure to follow when using the Card RPG program to produce a variety of business reports.
2. The operating considerations for the Card RPG program.
3. The programmed messages that may be printed or displayed during generation or execution of the object program.

stacked-job processing capability, multiprogramming, and related functions the operator must perform to initiate system operation and communicate with the system. A quick reference listing of all system-to-operator messages is included.

GC24-5022

IBM SYSTEM/360 DISK OPERATING SYSTEM OPERATING GUIDE PROGRAM NUMBER 360N-CL-453  
This reference publication describes the procedures to be followed by system operators when executing jobs using the Disk Operating System. Topics discussed include: system concepts, system operation, problem determination, and communication with the system. A section of general operating techniques is included.

Messages from the system, previously included in the DOS Operating Guide, are now contained in a separate publication, IBM SYSTEM/360 DISK OPERATING SYSTEM OPERATOR COMMUNICATIONS AND MESSAGES, GC24-5074. The communications manual also contains other reference information of interest to the system operator.

For a list of associated publications, refer to the IBM SYSTEM/360 BIBLIOGRAPHY, GA22-6822.

GC24-3465

IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS UTILITY PROGRAMS SPECIFICATIONS PROGRAM NUMBERS 360N-UT-461, 462, 463  
This reference publication describes to programmers the use of the IBM System/360 Disk and Tape Operating Systems Utility Programs. Both file-to-file and special-purpose utilities are included. The programs described are:

360N-UT-461

Assign Alternate-Track-Disk	Disk to Card
Card to Printer and/or Punch	Disk to Disk
Card to Disk	Disk to Printer
Clear Disk	Initialize Disk
Copy-Disk to Disk	VTOC Display
Copy and Restore-Disk to Card	

360N-UT-462

Card to Tape	Tape to Card
Copy and Restore-Disk or Data Cell to Tape	Tape Compare
Data Cell to Tape	Tape to Data Cell
Disk to Tape	Tape to Disk
Initialize Tape	Tape to Printer
	Tape to Tape

360N-UT-463

Assign Alternate Track-Data Cell	
Clear Data Cell	Data Cell to Printer
Data Cell to Data Cell	Disk to Data Cell
Data Cell to Disk	Initialize Data Cell

The reader should be familiar with these SRL publications for the IBM System/360 Disk and Tape Operating Systems: IBM SYSTEM/360 TAPE OPERATING SYSTEM, SYSTEM CONTROL AND SYSTEM SERVICE PROGRAMS, Order No. GC24-5034; IBM SYSTEM/360 DISK OPERATING SYSTEM, SYSTEM CONTROL AND SYSTEM SERVICE PROGRAMS, Order No. GC24-5036. For titles and abstracts of other associated publications, see the IBM SYSTEM/360 and System/370 Bibliography, GA22-6822.

GC24-5015

IBM SYSTEM/360 TAPE OPERATING SYSTEM, SYSTEM GENERATION AND MAINTENANCE

This reference publication contains specifications and operating procedures used to generate an installation tailored Tape Operating System. Supervisor macro instructions are used to describe facilities that are required within the system. This publication also contains sample problems that can be used to test the generated system.

GC24-5020

IBM SYSTEM/360 TAPE OPERATING SYSTEM, PERFORMANCE ESTIMATES

This reference publication contains main storage, external storage, and timing estimates for the Tape Operating System. The storage requirements are not sensitive to system configuration, but the timing estimates are. Therefore, representative system configurations are used to illustrate timing variances.

The timing discussion includes estimates for Job Control, Linkage Editor, Assembler, COBOL, FORTRAN, PL/I, and RPG. Time requirements for processing ATN commands, foreground program initiation, and the task selection mechanism are included. Examples illustrate the use of the timing data to calculate total job time.

GC24-5021

IBM SYSTEM/360 TAPE OPERATING SYSTEM, OPERATING GUIDE

This reference publication describes the operating procedures to be followed when executing jobs in a multiprogramming environment using the Tape Operating System. Topics discussed in this publication include

GC24-5027

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT CARD AND TAPE UTILITY PROGRAMS OPERATING GUIDE

This reference publication contains the guidelines to operate the following card and tape utility programs:  
SINGLE-TRANSFER UTILITY PROGRAMS      SPECIAL-PURPOSE UTILITY PROGRAMS

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Card to Printer and/or Punch 360P-UT-050, Version 3	Initialize Tape 360P-UT-057, Version 3
Card to Tape 360P-UT-051, Version 3	Multiple Utility 360P-UT-055, Version 2
Tape to Card 360P-UT-053, Version 3	Storage Print 360P-UT-056, Version 1
Tape to Printer 360P-UT-052, Version 3	Tape Compare 360P-UT-202, Version 1
Tape to Tape 360P-UT-054, Version 3	

These programs can be received by ordering individually numbered program packages. Each program is shipped as a complete entity, in object form, ready to perform its function.

The reader should be familiar with these IBM System/360 publications: IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT CARD AND TAPE UTILITY PROGRAMS SPECIFICATIONS, Form C24-5026; IBM SYSTEM/360 PRINCIPLES OF OPERATION, Form A22-6821; and other manuals associated with his device configuration.

GC24-5029

IBM SYSTEM/360 OPERATING SYSTEM COBOL (E) PROGRAMMER'S GUIDE  
PROGRAM NUMBER 360S-CO-503

This publication describes how to compile, linkage edit, and execute a COBOL (E) program. The text also describes the output from each of these steps. In addition, it explains options of the compiler and many available features of the operating system.

GC24-5030

IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS  
CONCEPTS AND FACILITIES

This reference publication describes the concepts of Disk and Tape Operating Systems and guides the planner in the use of their various facilities. It describes the components in the Disk and Tape Operating Systems and explains the function of each. The last section of the publication discusses the design, preparation and execution of programs.

For titles and abstracts of associated publications, see the IBM SYSTEM/360 BIBLIOGRAPHY, GA22-6822.

GC24-5033

IBM SYSTEM/360 DISK OPERATING SYSTEM:  
SYSTEM GENERATION AND MAINTENANCE

This reference publication describes the planning and the procedures necessary to generate and to maintain an installation-tailored IBM System/360 Disk Operating System (DOS) that provides support for IBM-supplied DOS programs you desire, as well as for your own programs. The major topics discussed are:

- Planning the installation-tailored DOS supervisor
- Planning the installation-tailored DOS operational pack(s)
- Procedures for generating and for maintaining the DOS system
- Sample problems for testing the IBM-supplied DOS programs

The storage requirements for the supervisor and the operational pack(s) are found in their respective sections of this publication.

Prerequisites for a thorough understanding and for the effective use of this publication are:

IBM SYSTEM/360 DISK OPERATING SYSTEM, CONCEPTS AND FACILITIES, GC24-5030

IBM SYSTEM/360 DISK OPERATING SYSTEM: SYSTEM CONTROL AND SYSTEM SERVICE PROGRAMS, GC24-5036

IBM SYSTEM/360 DISK OPERATING SYSTEM, SUPERVISOR AND INPUT/OUTPUT MACROS, GC24-5037

IBM SYSTEM/360 DISK OPERATING SYSTEM, OPERATING GUIDE, GC24-5022

IBM SYSTEM/360 DISK OPERATING SYSTEM, OPERATOR COMMUNICATIONS AND MESSAGES, GC24-5074

For titles and abstracts of other associated publications, see the IBM SYSTEM/360 BIBLIOGRAPHY, GA22-6822.

GC24-5034

IBM SYSTEM/360 TAPE OPERATING SYSTEM, SYSTEM CONTROL AND  
SYSTEM SERVICE PROGRAMS

This reference publication describes the IBM System/360 Tape Operating System. The system is a set of control programs and processing programs provided for the IBM System/360. Using IBM 2400-series magnetic tape units for on-line program residence, IBM System/360 Tape Operating System provides stacked-job processing capability,

CONTINUED FROM PRIOR COLUMN

multiprogramming capability, controls all input/output, and provides for continuous operation of all programs run in its environment. Detailed information is given in this publication on these major topics.

1. Operation with the System Control Program:
  - a. System Organization
  - b. Supervisor Functions
  - c. Job Control Program
2. Using the System Service Programs:
  - a. Linkage Editor
  - b. Librarian

The prerequisite for a thorough understanding of this publication is a basic knowledge of System/360 machine concepts.

GC24-5035

IBM SYSTEM/360, TAPE OPERATING SYSTEM, SUPERVISOR AND  
INPUT/OUTPUT MACROS

This reference publication contains planning information about the Input/Output Control System macro instructions and the Supervisor macro instructions for use with the IBM System/360 Tape Operating System (TOS).

GC24-5036

IBM SYSTEM/360 DISK OPERATING SYSTEM: SYSTEM CONTROL  
AND SYSTEM SERVICE PROGRAMS

PROGRAM NUMBERS BEGINNING WITH 360N-  
This reference publication describes the IBM System/360 Disk Operating System. The system is a set of control programs and processing programs for IBM System/360. Using IBM 2311 Disk Storage or IBM 2314 Direct Access Storage for on-line program residence, the IBM System/360 Disk Operating System:

- Provides stacked-job programming capability.
- Provides multiprogramming and telecommunications capability.
- Controls all input/output.
- Provides for continuous operation of all programs run in its environment.

Detailed information is given on these major topics:

- System Control Program
  - System Organization
  - Supervisor Functions
  - Job Control Program
- System Service Programs
  - Linkage Editor
  - Librarian
  - Problem Determination

Prerequisite for understanding this publication is a basic knowledge of System/360 machine concepts.

For titles and abstracts of other associated publications, see the IBM SYSTEM/360 BIBLIOGRAPHY, GA22-6822.

GC24-5037

IBM SYSTEM/360 DISK OPERATING SYSTEM  
SUPERVISOR AND INPUT/OUTPUT MACROS  
SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBER 360N-CL-453

This reference publication is for the programmer planning to use the DOS Input/Output Control System macro instructions and supervisor communication macro instructions. These macro instructions can be combined with problem programs to produce generalized or specific file processing programs for a foreground or background environment. The major subjects describe the macro system, label processing, multitasking macros, physical IOCS, supervisor communication macros, and sequential, direct, and indexed sequential access methods. Prerequisite information is contained in the following publications:

IBM SYSTEM/360 DISK OPERATING SYSTEM: SYSTEM PROGRAMMER'S GUIDE, GC24-5073

IBM SYSTEM/360 DISK OPERATING SYSTEM, DASD LABELS, GC24-5072

IBM SYSTEM/360 PRINCIPLES OF OPERATION, GA22-6821

IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS, ASSEMBLER LANGUAGE, GC24-3414

IBM SYSTEM/360 DISK OPERATING SYSTEM, DATA MANAGEMENT CONCEPTS, GC24-3427

For titles and abstracts of other associated publications, see the IBM SYSTEM/360 BIBLIOGRAPHY, GA22-6822.

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- GC24-5038  
IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS BASIC FORTRAN IV PROGRAMMERS GUIDE  
PROGRAM NUMBERS 360N-FO-451 AND 360M-FO-409  
This publication describes the procedures for compiling and executing Fortran IV programs under control of the Disk Operating System or Tape Operating System. Its purpose is to guide the programmer with examples and techniques of the Basic Fortran IV language. It also exposes the user to the components of the control program and facilities of the IBM System/360 Disk and Tape Operating Systems.
- GC24-5039  
IBM SYSTEM/360 DISK OPERATING SYSTEM COBOL DASD MACROS  
PROGRAM NUMBER 360N-CB-468  
This reference publication provides the programmer with rules for using DASD macros to handle input/output operations for direct access or indexed sequential files.
- GC24-5041  
IBM SYSTEM/360 BASIC OPERATING SYSTEM, MASTER INDEX  
This index is a consolidation of the indexes of all programming publications for the IBM Basic Operating System (BOS). Each index entry is accompanied by the abbreviated publication title, the subject code of the publication within the IBM System Reference Library, and the publication form number.
- GC24-5042  
DOS AND TOS UTILITY MACROS - SYSTEMS REFERENCE LIBRARY  
MANUAL - PROGRAM NUMBERS 360M-UT-411 AND 360N-UT-471  
The utility macro instructions are primarily designed to operate within the multiprogramming environment of the Disk or Tape Operating System. Input macro instructions can be combined with output macro instructions, and with processing routines, to generate generalized or specific file processing programs. The resulting utility programs can operate in either a foreground or background partition. This manual is intended for the applications programmer who is concerned with creating utility programs to operate in a DOS or TOS multiprogramming system. The manual describes how to specify each macro instruction and gives examples of various programming applications. The main sections of this book are: general information on generating a utility program, detailed specifications of the macro instructions, and coded examples illustrating the use of these instructions. The reader must be familiar with the information presented in: IBM System/360 Disk and Tape Operating Systems, Assembler Language, GC24-3414, and either TOS System Control and Service Programs, GC24-5034, or DOS System Control and Service, GC24-5036.
- GC24-5061  
IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC TAPE SYSTEM  
SYSTEM GENERATION AND MAINTENANCE  
PROGRAM NUMBER 360P-AS-091  
This reference publication contains specifications and operating procedures for generating and maintaining a system tape for Basic Programming Support.
- GC24-5062  
IBM SYSTEM/360 DISK OPERATING SYSTEM AUTOTEST SPECIFICATIONS  
This reference publication describes the testing services provided by the Disk Operating System Autotest. The following features are described: Autopatch, Test Request Options, normal and abnormal End of Job Dumps, Disaster Continue and the Autotest Card-to-Tape Variable program. Programmer-oriented diagnostic messages are also included. Control card formats and examples are given for Job Control as well as for Autotest. The reader should be familiar with the following related publications:  
IBM SYSTEM/360 PRINCIPLES OF OPERATION, order number GA22-6821;  
IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS ASSEMBLER specifications, order number GC24-3413;  
IBM SYSTEM/360 DISK OPERATING SYSTEM SYSTEM CONTROL and system service programs, order number GC24-5036;  
IBM SYSTEM/360 DISK OPERATING SYSTEM OPERATING guide, order number GC24-5022;  
IBM SYSTEM/360 DISK OPERATING SYSTEM SYSTEM GENERATION and maintenance, order number GC24-5033; and  
IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS UTILITY programs specifications, order number GC24-3465.
- GC24-5063  
DISK OPERATING SYSTEM/360  
MASTER INDEX SYSTEMS REFERENCE LIBRARY MANUAL  
This index is a consolidation of the indexes of programming publications for the IBM Disk Operating System (DOS). Each index entry is accompanied by an abbreviated title of the publication. Appendix A contains a list of the DOS publications used to compile this consolidated index by abbreviated title, complete title, order number, and the subject code of the publication within the IBM System Reference Library. Appendix B contains the publication plan for the Disk Operating System. For titles and abstracts of all IBM System/360 and System/370 publications, see the IBM System/360 and System/370 Bibliography (GA22-6822).
- GC24-5064  
IBM SYSTEM/360 TAPE OPERATING SYSTEM, PROGRAMMING INDEX  
This index is a consolidation of the indexes of all programming publications for the IBM Tape Operating System (TOS). Each index entry is accompanied by the abbreviated publication title, and subject code of the publication within the IBM System Reference Library, and the publication form number. Appendix A contains a list of the TOS publications, by title and form number, used to compile this consolidated index. Appendix B contains the publication plan for the Tape Operating System.
- GC24-5066  
IBM SYSTEM/360, DISK AND TAPE OPERATING SYSTEM, ON-LINE TEST  
EXECUTIVE PROGRAM, SPECIFICATIONS AND OPERATING GUIDE,  
PROGRAM NUMBER FOR DOS 360N-DN-481 TOS 360M-DN-418  
This reference publication describes the On Line Test Executive Program that controls on line testing of I/O units under the Disk and Tape Operating Systems supervisors. It explains the functions of the program and gives procedures for running the test programs. The test programs are not described in this publication. Information about the test programs can be obtained from an IBM Field Engineering representative.
- GC24-5067  
IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT MASTER INDEX  
This index is a consolidation of the indexes of all programming publications for IBM System/360 Basic Programming Support (BPS). Each index entry is accompanied by the abbreviated publication title, the subject code of the publication within the IBM Systems Reference Library, and the publication form number. Appendix A contains a list of the BPS publications, by title and form number, used to compile this consolidated index. Appendix B contains the publication plan for Basic Programming Support.
- GC24-5069  
IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT  
MODULAR FILE MAINTENANCE PROGRAM SPECIFICATIONS AND  
OPERATING GUIDE  
PROGRAM NUMBER 360P-UT-219  
This reference publication describes the specifications and operating procedures for the IBM System/360 Basic Programming Support Modular File Maintenance Program. This program is used to retrieve programs from IBM-supplied distribution tapes. It also builds and maintains a file of one or more modules, primarily source and/or object decks of programs, which may be revised whenever necessary. Programmer-oriented diagnostic messages, as well as formats and examples of control statements for job control and the Modular File Maintenance Program, are included in this publication. An understanding of the IBM System/360 programming concepts is a prerequisite. System/360 programming concepts are discussed in IBM SYSTEM/360 PRINCIPLES OF OPERATION, Order No. GA22-6821. Titles and abstracts of other related publications are listed in the IBM SYSTEM/360 BIBLIOGRAPHY, Order No. GA22-6822. For indexes to other BPS publications refer to the IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT MASTER INDEX, Order No. GC24-5067.
- GC24-5070  
IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT,  
BASIC OPERATING SYSTEM, TAPE OPERATING SYSTEM,  
DISK OPERATING SYSTEM, TAPE LABELS  
SYSTEMS REFERENCE LIBRARY MANUAL  
The types of labels that may be written on magnetic tape by the System/360 are defined and described in this reference manual. The processing performed by the programming systems, and the specifications that the user must supply to the systems, are discussed in two major sections: one section for BPS and BOS processing, and another section for TOS and DOS processing. Each section discusses the processing of standard, user-standard, and nonstandard labels, and unlabeled files. The discussion deals primarily with the functions performed for volume, header, and trailer labels when the user gives specifications directly to IOCS through DTF entries. In addition, a portion of each label processing section deals with the label processing specifications required by components of the system (such as Sort/Merge, Utilities, COBOL, etc.). Illustrations of volume layouts depict the various arrangements of labels and data records that can be handled

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by the four programming systems. Flowcharts show the sequence of events that occur when files with standard, nonstandard, or no labels are opened and closed.

For a thorough understanding of this manual, the reader should have a basic knowledge of the Input/Output Control System (IOCS). The manuals that provide this information for each system are:

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT, ASSEMBLER WITH INPUT/OUTPUT MACROS (TAPE) SPECIFICATIONS, GC24-3355.

IBM SYSTEM/360 BASIC OPERATING SYSTEM, ASSEMBLER WITH INPUT/OUTPUT MACROS SPECIFICATIONS, GC24-3361.

IBM SYSTEM/360 TAPE OPERATING SYSTEM, SUPERVISOR AND INPUT/OUTPUT MACROS, GC24-5035.

IBM SYSTEM/360 DISK OPERATING SYSTEM, SUPERVISOR AND INPUT/OUTPUT MACROS, GC24-5037.

GC24-5072

IBM SYSTEM/360 DISK OPERATING SYSTEM, DASD LABELS

The types of labels that may be written on a Direct Access Storage Device (DASD) by the Disk Operating System are defined and described in this reference manual. The processing performed by the programming system, and the specifications that the user must supply to the system, are discussed in the second major section. This section discusses the processing of standard labels (volume, format-1, format-3) and user-standard labels for input/output sequential files and input/output direct access files. For indexed sequential files, the section discusses standard labels (volume, format-1, format-2) under the load, add, and retrieve functions. The discussion deals primarily with the functions performed for the labels when the user gives specifications directly to IOCS through DTF entries.

In other sections, illustrations of volume layouts depict the various arrangements of labels and data records that can be handled by the Disk Operating System. The DASD labels supported by the programming system are described. Each label is illustrated, and each field of each label is described in detail. Flowcharts show the sequence of events for label processing when sequential, direct access, and indexed sequential files are opened and closed.

For a thorough understanding of this manual, the reader should have a basic knowledge of the Input/Output Control System (IOCS) as described in IBM SYSTEM/360 DISK OPERATING SYSTEM, supervisor and input/output macros, (GC24-5037).

For a list of associated publications, refer to the IBM System/360 bibliography (GA22-6822).

GC24-5073

DISK OPERATING SYSTEM SYSTEM PROGRAMMER'S GUIDE

This reference publication is intended primarily for the system programmer who is involved in making decisions relating to the components of the installation's supervisor, file organization and program design. To form a single publication, this manual brings together and expands upon information from many sources. Major topics discussed are:

1. Supervisor Planning Concepts
2. Data Management
3. Program Design
4. Debugging Aids

For each major section, the Preface lists the most closely related publications. For a complete list of available publications, see the IBM System/360 and System/370 Bibliography (GA22-6822).

GC24-5074

SYSTEM/360 DISK OPERATING SYSTEM MESSAGES  
SYSTEMS REFERENCE LIBRARY MANUAL  
SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBER 360N-CL-453

This reference publication provides quick access information for operators and programmers who encounter DOS messages and use DOS commands and job control language. This publication does not include:

- o Any message issued by IBM Program Products
- o Any language message issued during compilation or assembly
- o RPG messages
- o OLTEP messages
- o System/370 Emulator messages

NOTE: Although titles of some DOS publications have been simplified, the change does not affect the contents of the publication.

For detailed DOS operating information, see the companion publication, DOS OPERATING GUIDE (GC24-5022). For a list of associated publications, refer to the IBM SYSTEM/360 AND SYSTEM/370 BIBLIOGRAPHY (GA22-6822).

GC24-5082

IBM SYSTEM/360 DOS TO OS MANAGEMENT PLANNING GUIDE

This publication presents areas for your consideration during the planning stages for the transition from the IBM System/360 Disk Operating System (DOS) to the IBM System/360 Operating System (OS). It is designed to assist management in preparing a total plan for a DOS-to-OS project.

An overview of a transition project is presented followed by discussions on education, organization, operations, standards, system planning, scheduling, and program and file revision considerations. Two appendices are also included. Appendix A shows a relationship between the transition work flow and OS education. Appendix B is an OS glossary.

This publication emphasizes the considerations for a DOS-to-OS transition project. Because of the differences between data processing installations, the guidelines in this publication will have to be adjusted and tailored to fit the needs of your installation.

GC24-5086

DOS OLTEP  
PROGRAM - SYSTEM REFERENCE LIBRARY MANUAL  
PROGRAM NUMBER 360N-DN-481

This reference publication describes the Disk Operating System (DOS) On-Line Test Executive Program (OLTEP) that controls online testing of I/O units under the DOS supervisor. It explains the functions of the program and gives procedures for running the test programs that are obtained from the IBM Customer Engineer.

For titles and abstracts of associated publications, see the IBM SYSTEM/360 2nd system/370 BIBLIOGRAPHY (GA22-6822).

GC24-6000

IBM SYSTEM/360 DCS-TO-OS IMPLEMENTATION GUIDE  
SYSTEM REFERENCE LIBRARY MANUAL

This publication consists of self-contained chapters, each of which provides information on how to modify the IBM System/360 Disk Operating System (DOS) programs and files to run under the IBM System/360 Operating System. It is designed primarily for programming personnel responsible for making the transition from DOS to OS and applies to DOS Release 23 and OS Release 19.

GC24-9005

DOS AND TOS PL/I (D) COMPILER PROGRAMMER'S GUIDE  
PL/I - PROGRAMMER'S GUIDE

This publication complements the Systems Reference Library publication DOS and TOS PL/I (D) Compiler, Language Reference Manual, Order No. GC28-8202. Its purpose is to aid the programmer and to familiarize him with the techniques of PL/I programming. This publication therefore provides all information that is not part of the PL/I Language Reference Manual but required by the programmer to write programs in the PL/I (D) language and to have them compiled and executed in the DOS/TOS environment.

The main topics covered in this publication are:

- o The DOS/TOS environment
- o PL/I data file organization
- o Storage requirements of PL/I programs and program elements
- o The overlay facility
- o Listings produced for PL/I programs
- o Restrictions to the PL/I (D) language

In some instances, the programmer may desire detailed additional information on topics not directly connected with PL/I. A list of all pertinent Systems Reference Library publications is provided in the Introduction section of this publication.

GC26-3564

IBM SYSTEM/360 CONVERSION AIDS: THE 1401/1440/1460  
TAPE OVERLAP EMULATOR PROGRAM FOR IBM SYSTEM/360  
MODEL 30. PROGRAM NUMBER 360C-EU-097

This publication describes the Tape Overlap Emulator Program and contains instructions on its use. The Tape Overlap Emulator Program is used with the IBM 1401/1440/1460 Compatibility Feature of the System/360 to allow overlap of magnetic tape operations with processing of IBM 1400-series programs.

Emulation is a technique that uses both special machine features and programming to allow programs written for one data processing system be run on another type of system.

GC26-3570

IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS  
REPORT PROGRAM GENERATOR SPECIFICATIONS

This publication contains fundamentals of RPG programming and language specifications for the IBM System/360 Disk and Tape Operating Systems, Report Program Generator. This program can be used for System/360 Models 30, 40, 50, 65 and 75.

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Also included is the job setup information for executing RPG.

GC26-3627

IBM SYSTEM/360 BASIC OPERATING SYSTEM  
1070 PROCESS COMMUNICATION SUPERVISOR OPERATING GUIDE  
PROGRAM NUMBER 360B-SV-032

This publication describes operating procedures for the IBM 1070 Process Communication Supervisor. It describes methods of assembling, loading, and executing the PCS and problem programs. A description of error messages and halts is also included.

GC26-3734

IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION:  
TSO ASSEMBLER PROMPTER DESIGN OBJECTIVES, PROGRAM 5734-CP2  
 This Program Product Design Objectives (PPDO) describes the design objectives and provides the estimated availability date of the subject Program Product.

GC26-3735

IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H  
DESIGN OBJECTIVES SHEET, PROGRAM NUMBER 5734-AS1  
 Assembler H is a high-performance assembler language processor for the IBM System/360 Operating System. This document contains the design objectives for Assembler H support of System/370.

SC26-3740

OS TSO ASSEMBLER PROMPTER USER'S GUIDE, PROG. NO. 5734-CP2  
 The assembler prompter is a program product that makes it easy to call Assembler F from a terminal. The prompter, which is a command processor, operates only under the Time Sharing Option (TSO) of the IBM System/360 Operating System.

This book is for the assembler-language programmer who wants to use TSO to write, assemble, and execute programs from a terminal using the assembler prompter.

Section 1, which supplements the manual IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION TERMINAL USER'S GUIDE (GC28-6763), explains how to use the ASM command by itself to assemble source code and obtain object code for existing source code. It also explains how to use ASM as an operand of the RUN command and of the RUN subcommand of the EDIT command to assemble, load, and execute assembler-language source code.

Section 2, which supplements the book IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION COMMAND LANGUAGE REFERENCE (GC28-6732), describes the format of the ASM command and lists the operands, with a brief description of each, in alphabetic order.

GC26-3743

IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H  
SPECIFICATION SHEET, PROGRAM NUMBER 5734-AS1  
 This Program Product Specifications (PPS) describes the warranted specifications of the subject Program Product.

GC26-3746

OS DATA MANAGEMENT SERVICES GUIDE - SYSTEMS REFERENCE  
LIBRARY - PROGRAM NUMBERS 360S-AS-036,037 360S-DH-508,509  
360S-IO-526  
 Describes the assembler-language, I/O-related macros of OS. Defines and provides how-to information about (fixed, blocked, variable, undefined) record formats, data set organization methods (sequential, indexed-sequential, and direct) and procedures for creating and updating access techniques (BDAM, BISM, BPAH, BSAH, QISAH, QSAH). Contains information on direct-access device characteristics and allocation of space on direct-access devices.

GC26-3756

IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER (F)  
PROGRAMMER'S GUIDE - PROGRAM NUMBER 360S-AS-037  
 This publication complements the IBM System/360 Operating System Assembler Language publications. It provides a guide to program assembling, linkage editing, executing, interpreting listings, assembler programming considerations, diagnostic messages, and object output cards.

Information in this manual on IBM System/360 Model 195 should be used for planning purposes only.

GC26-3758

IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER (H)  
PROGRAM PRODUCT GENERAL INFORMATION  
PROGRAM NUMBER 5734-AS1  
 Assembler H is a new assembler-language processor that extends the basic assembler language and the macro and conditional-assembler language. It is designed to perform high-speed assemblies on IBM System/360 Models 40 and larger that have at least 256K bytes of main storage.

This publication describes the language extensions.

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It also provides information on system requirements and performance estimates. This manual is designed to aid both planning and programming personnel. The reader is assumed to be familiar with the assembler language and with macro and conditional-assembler language processing.

SC26-3759

IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H  
PROGRAMMER'S GUIDE  
PROGRAM NUMBER 5734-AS1  
 This book tells how to use Assembler H. It describes assembler options, cataloged Job Control Language procedures, assembler listing and output, sample programs, and programming techniques and considerations.

Assembler H is an assembler-language processor for the IBM System/360 Operating System. It performs high-speed assemblies on an IBM System/360 Model 40 or higher with at least 256K bytes of main storage.

This book is intended for all Assembler H programmers. It should be used in conjunction with the OPERATING SYSTEM ASSEMBLER LANGUAGE Manual, Order Number GC28-6514; the ASSEMBLER H LANGUAGE SPECIFICATIONS, Order Number GC26-3771; and the ASSEMBLER H MESSAGES, Order Number SC26-3770.

GC26-3767

IBM 2740/2968 AUDIO-VISUAL CONTROL USER'S GUIDE  
RPO NUMBER F30209

This manual tells course authors how to control the audio-visual units with the 2740 remote terminal. It also describes the units and the programming support required to operate them.

SC26-3768

IBM SYSTEM/360 OPERATING SYSTEM  
ASSEMBLER H SYSTEM INFORMATION (PROGRAM NUMBER 5734-AS1)

IBM System/360 Operating System Assembler H System Information Program Number 5734-AS1 was designed to improve many features of Assembler F, and has expanded capabilities as a macro assembler for both system and user defined macro languages.

This publication describes installation considerations and system-generation procedures for Assembler H, and is intended primarily for programmers responsible for installing the assembler.

This manual is divided into three independent chapters:

- o Performance Estimates,
- o Storage Estimates, and
- o System Generation.

SC26-3770

IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H MESSAGES  
PROGRAM NUMBER 5734-AS1

This book describes the assembly error diagnostic messages and the abnormal assembly termination messages issued by Assembler H. Assembler H is an assembler-language processor for the IBM System/360 Operating System. It performs high-speed assemblies on an IBM System/360 Model 40 or higher with at least 256K bytes of main storage.

This book is intended for all Assembler H Programmers. It should be used in conjunction with the OPERATING SYSTEM ASSEMBLER LANGUAGE MANUAL, Order Number GC28-6514; the ASSEMBLER H LANGUAGE SPECIFICATIONS, Order Number GC26-3771; and the ASSEMBLER H PROGRAMMER'S GUIDE, Order Number SC26-3759.

For each error message, this book describes the number and text of the message, the explanation of the error, the assembler's handling of the error, and the programmer's response to correct the error. The introduction to this book describes the format, content, and placement of the error messages.

GC26-3771

IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H  
LANGUAGE SPECIFICATIONS  
PROGRAM NUMBER 5734-AS1

This manual provides language specifications for the IBM System/360 operating System Assembler H. Primarily intended as a reference manual for assembler-language programmers, it is designed to be used in conjunction with IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER LANGUAGE, Order Number GC28-6514.

Sections 2 - 5 of this manual describe assembler language extensions.

Sections 6-10 of this manual describe extensions to the macro language.

GC26-3777

EMULATING DOS ON IBM SYSTEM/370 UNDER OS SYSTEM REFERENCE  
LIBRARY MANUAL - PROGRAM NUMBER 360C-EU-738

The Disk Operating System (DOS) Emulator Program executes under an IBM Operating System (OS) having either an MPT or MVT control program. It enables DOS programs to execute in an OS environment. The DOS Emulator program may be

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- multiprogrammed with other OS jobs, and it can run the multiprogramming options of DOS.
- This publication provides information for programmers and operators to help them code and run DOS jobs with the DOS Emulator program. Introductory material that describes the operations and requirements for the DOS Emulator program is included. Lists of program generated messages and sample job streams are also provided in the reference sections.
- It is assumed that readers of this publication are familiar with OS AND DOS and have a working knowledge of their control programs.
- GC26-3782  
IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION ASSEMBLER PROMPTER PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-CP2  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GC26-3794  
OS DATA MANAGEMENT MACRO INSTRUCTIONS - SYSTEMS REFERENCE LIBRARY - LIBRARY MANUAL - PROGRAM NUMBERS 360S-DM-508, 509 360S-IO-526  
This publication is intended for application programmers who are writing in assembler language; it contains, a brief description of each macro instruction and a description of each operand that can be specified in a macro instruction. Descriptions of the macro instructions for the following data management access methods are contained in this publication.
- o Basic Direct Access Method (BDAM)
  - o Basic Indexed Sequential Access Method (BISAM)
  - o Basic Partitioned Access Method (BPAM)
  - o Basic Sequential Access Method (BSAM)
  - o Queued Indexed Sequential Access Method (QISAM)
  - o Queued Sequential Access Method (QSAM)
- This publication does not contain descriptions of macro instructions for specialized application programs such as teleprocessing, graphics magnetic character readers, optical character reader-sorters optical character readers.
- Before using this publication to code macro instructions you should be familiar with the information contained in the OS Data Management Services Guide.
- GC26-3796  
OS TESTRAN SYSTEM INFORMATION - SYSTEMS REFERENCE LIBRARY PROGRAM NUMBER 360S-PT-516  
This manual describes the procedures for restoring TESTRAN, the TESTRAN macro instruction used to generate TESTRAN into the new operating system, and the storage needed to restore, install, and execute TESTRAN. The manual is for system programmers who generate and maintain the Operating System.
- GC26-5929  
IBM 1130 SUBROUTINE LIBRARY FOR USE WITH THE DISK MONITOR SYSTEM. VERSION 2 MODIFICATION LEVEL 3 PROGRAM NUMBERS 1130-OS-895, 1130-OS-896.  
This publication describes the libraries provided with the following programming systems:
- o 1130 Card/Paper Tape
  - o 1130 Disk Monitor Version 1
  - o 1130 Disk Monitor Version 2
- The programming system libraries consist of input/output, conversion, arithmetic, functional, and utility subroutines. Included in the descriptions are calling sequences for the the subroutines and explanations of the parameters involved.
- The section on conversion subroutines describes the codes used to communicate with the 1130 system I/O devices. An appendix lists these codes and shows their relationship to each other.
- GC26-5999  
IBM SYSTEM/360 RPG TRANSLATOR  
This manual provides programming specifications for the IBM System/360 RPG Translator. It describes the operations necessary for converting a 1400 RPG source program to a System/360 RPG source program.
- The information contained in this publication will enable a 1400 RPG programmer to determine the scope of the Translator program and to formulate preliminary plans for its use.
- This manual lists the machine features required and supported, describes the functional characteristics of the program, and provides a section on data checking and operating characteristics. Restrictions to the program are defined, and suggested solutions are provided. A program example and operating procedures are also included.
- GC27-6908  
IBM SYSTEM/360 CONVERSION AIDS: THE 7074 EMULATOR PROGRAM FOR IBM SYSTEM/360, MODELS 50 AND 65. PROGRAM NUMBER 360C-EU-725 SYSTEMS REFERENCE LIBRARY  
This publication provides information on the IBM 7074 Emulator Program (360C-EU-725), and is directed to the user who is supplementing or replacing his IBM 7070/7074 Data Processing System with an IBM System/360, Model 50 or 65. Emulation is a technique that utilizes both equipment (Compatibility Feature) and programming to execute object programs written for other data processing systems.
- GC27-6909  
IBM SYSTEM/360 OPERATING SYSTEM, GRAPHIC PROGRAMMING SERVICES FOR IBM 2250 DISPLAY UNIT. PROGRAM NUMBER 360S-IO-523  
This publication describes macro instructions and routines provided under the IBM System/360 Operating System for use with the IBM 2250 Display Unit.
- These programming services are designed to facilitate the assembler-language coding of programs for displaying data in alphanumeric or graphic form on the 2250 screen and for controlling man-machine communication using the 2250 . Included are facilities for creating the image-defining orders and data, for controlling input/output functions of the graphic device, and for handling communications from a 2250 operator. Both basic and express attention handling are described.
- Although intended primarily for the programmer coding in System/360 assembler language, portions of this publication are also of interest to installation managers, system engineers, system programmers, and others seeking general information about programming the IBM 2250 Display Unit.
- GC27-6911  
IBM SYSTEM/360 CONVERSION AIDS: THE 7080 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 65. PROGRAM NUMBER 360C-EU-727 SYSTEMS REFERENCE LIBRARY  
Special machine and programming features expand the capabilities of IBM System/360 Model 65 to include an alternate mode of operation: operation as the IBM 7080 Emulator. The Emulator is the effective equivalent of the IBM 7080 Data Processing System, and is capable of executing programs written for the 7080. This publication describes how to prepare and use a suitably configured System/360 for the execution of 7080 programs.
- General information is provided on Emulator characteristics, programming considerations, and operating considerations. Complete instructions for system generation and program use are provided, together with detailed information on error messages and corrective actions.
- GC27-6912  
IBM SYSTEM/360 OPERATING SYSTEM GRAPHIC PROGRAMMING SERVICES FOR IBM 2260 DISPLAY STATION (LOCAL ATTACHMENT) PROGRAM NUMBER 360S-IO-523  
This publication describes programming services for using the IBM 2260 Display Station with the System/360 Operating System. Included are descriptions of macro instructions for input/output control and for Basic and Express Attention Handling, along with some general requirements for using the display station effectively.
- Although intended primarily for the programmer coding in System/360 assembler language, portions of this publication are also of interest to installation managers, system engineers, system programmers, and others seeking general information about programming the IBM 2260 Display Station.
- GC27-6918  
IBM SYSTEM/360 OPERATING SYSTEM: MAINTENANCE PROGRAM: PROGRAM NUMBER 360S-UT-506  
This publication describes the procedure for applying IBM-distributed maintenance material, or user-provided material in a prespecified form, to operating-system libraries. The major portion of this information concerns the Update Analysis Program—a program that determines the applicability of maintenance material for the individual system libraries, and accordingly constructs a job stream that effects the library updating. The information contained in IBM SYSTEM/360 OPERATING SYSTEM: SYSTEM GENERATION, Form GC28-6554, is prerequisite to the use of this publication.
- GC27-6924  
IBM SYSTEM/360 DISK OPERATING SYSTEM VOCABULARY FILE UTILITY PROGRAM FOR THE IBM 7772 AUDIO RESPONSE UNIT PROGRAM NUMBER 360N-UT-472  
This document provides information on the Vocabulary File Utility Program for the IBM 7772 Audio Response Unit, that enables the user to create, organize, and update the file of work representations from which the audible responses of the IBM 7772 Audio Response Unit are formed.

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- GC27-6927  
IBM SYSTEM/360 OPERATING SYSTEM GRAPHIC PROGRAMMING SERVICES FOR IBM 2280 AND 2282 FILM UNITS PROGRAM NUMBER 360S-IO-523  
This publication contains information for writing programs using the IBM 2280 Film Recorder or the IBM 2282 Film Recorder/Scanner.  
For complete coverage of available 2280/82 graphic programming services, this publication must be used with IBM SYSTEM/360 OPERATING SYSTEM; GRAPHIC PROGRAMMING SERVICES FOR IBM 2250 DISPLAY UNIT, order number GC27-6909.  
The information consists primarily of formats and descriptions of macro-instructions that generate orders and data that control the graphic devices. Considerations for user's error handling routines are also included.
- GC27-6929  
IBM SYSTEM/360 CONVERSION AIDS: SAMPLE PROBLEMS FOR IBM SYSTEM/360 EMULATOR PROGRAMS  
PROGRAM NUMBERS: 360C-EU-074 360C-EU-726 360C-EU-729  
360C-EU-097 360C-EU-727 360C-EU-731 360C-EU-725  
360C-EU-728 360C-EU-733  
Sample problems are provided as a part of the distribution material for IBM System/360 Emulator Programs. They are illustrative examples designed to familiarize the user with the techniques required to execute object programs written or other IBM data processing systems under Emulator control. Sample problems are not intended to provide detailed and exhaustive tests or demonstrations of Emulator Programs.  
Included in this publication are sample problems for use with the following Emulators: 1401/1440/1460 Model 30, 1401/1460 Model 40, 1410/7010 Models 40 and 50, 1620 Model 30, 7040/7044 Model 65, 7074 Models 50 and 65, 7080 Model 65, and 709/7090/7094/7094II Model 65.
- GC27-6932  
IBM SYSTEM/360 OPERATING SYSTEM, GRAPHIC SUBROUTINE PACKAGE (GSP) FOR FORTRAN IV, COBOL, AND PL/I, PROGRAM NUMBER 360S-LM-537  
This publication describes how a FORTRAN, COBOL, or PL/I programmer can write graphic programs for use with the IBM 2250 Display Unit in association with the IBM System/360 Operating System. It also describes how the graphic subroutine package may be used in a program written in Assembler Language.  
The graphic subroutine package (GSP) consists of subroutines and functions for displaying characters or graphic forms on the 2250 screen and for controlling communication between the program and the 2250 operator. The subroutines may be called from a program written in the E, G, or H level of FORTRAN IV, in COBOL (F), or in PL/I (F), or from a program written in Assembler Language. They are not an extension of the FORTRAN IV, COBOL, or PL/I languages, but may be used in conjunction with them.
- GC27-6933  
IBM SYSTEM/360 OPERATING SYSTEM USER'S GUIDE FOR JOB CONTROL FROM THE IBM 2250 DISPLAY UNIT, PROGRAM NUMBER 360S-RC-541  
This publication describes how a person at an IBM 2250 Display Unit can define and initiate jobs to be processed by the IBM System/360 Operating System. The publication discusses the job control operations that are available at the display unit and provides supplementary information to assist the user. A sample job control session is explained with text and illustrations.  
The descriptions of the job control operations are written for a person who is not familiar with the IBM System/360 Operating System.
- GC27-6935  
IBM SYSTEM/360 OPERATING SYSTEM PLANNING FOR ROLLOUT/ROLLIN  
This publication describes the features and capabilities provided by the rollout/rollin feature of the IBM System/360 Operating System. Rollout/rollin is used in conjunction with MVT (multiprogramming with a variable number of tasks) as an aid to main storage management.
- GC27-6937  
IBM SYSTEM/360 OPERATING SYSTEM AND 1130 DISK MONITOR SYSTEM, SYSTEM/360 - 1130 DATA TRANSMISSION FOR FORTRAN PROGRAM NUMBERS 360S-LN-542 AND 1130-LN-011  
This publication describes subroutines that enable a FORTRAN IV programmer to transmit data between a program being processed by the IBM System/360 Operating System and a program being processed by the IBM 1130 Disk Monitor System Version 2. It also describes how these subroutines can be used by an Assembler Language programmer.  
The subroutines described in this publication make up what is called the processor-to-processor (PTOP) program. With these subroutines, the FORTRAN programmer can perform telecommunication procedures similar to those available to Assembler Language programmers via the binary synchronous services of the Basic Telecommunications Access Method (in the System/360 Operating System) and the Synchronous Communications Adapter subroutines (in the 1130). The PTOP subroutines are not an extension of the FORTRAN IV Language, but are to be used in conjunction with it.  
It is assumed that the FORTRAN user of this publication is experienced in the FORTRAN IV language of both the IBM System/360 Operating System and the IBM 1130 Disk Monitor System Version 2. It is assumed that the Assembler Language user of this publication is experienced in the Assembler Language of both systems. Detailed knowledge of binary synchronous communications programming is unnecessary.
- GC27-6938  
IBM SYSTEM/360 OPERATING SYSTEM AND 1130 DISK MONITOR SYSTEM USER'S GUIDE FOR JOB CONTROL FROM AN IBM 2250 DISPLAY UNIT ATTACHED TO AN IBM 1130 SYSTEM PROGRAM NUMBERS 360S-RC-543 AND 1130-CQ-012  
This publication describes how a person at an IBM 2250 Display Unit attached to an IBM 1130 Computing System can define and initiate jobs to be processed by the IBM System/360 Operating System. A job defined at the display unit can be processed independently in the System/360 or it can be processed in conjunction with a related program in the 1130. The publication discusses the job control operations available to the 2250 user and provides supplementary information to assist him at the display unit. A complete sample job with text and illustrations is included.  
The information on job control operations is written for a person unfamiliar with the IBM System/360 Operating System, the IBM 1130 Computing System, or the IBM 2250 Display Unit. A series of appendixes provide information of interest to programmers and installation personnel planning for this support.
- GC27-6939  
IBM SYSTEM/360 OPERATING SYSTEM: MFT GUIDE A FIXED NUMBER OF TASKS (MFT) PROGRAM NUMBER 360S-CI-505  
This publication provides information concerning Version II of Multiprogramming With a Fixed Number of Tasks (MFT) for installation personnel who are responsible for selection, evaluation, and implementation of System/360 Operating System configurations. The information is presented in two major categories: CONCEPTS and CONSIDERATIONS. These sections describe, respectively:  
The principles of operation of MFT.  
The influence of these principles on the application and operation of the system.  
The descriptive information is supplemented by examples and illustrations including a sample job scheduling sequence and sample partition configurations for systems with 128K, 256K, and 512K bytes of main storage.
- GC27-6940  
SYSTEM/360 DISK OPERATING SYSTEM 1401/1440/1460 EMULATOR PROGRAMS COMPATIBILITY SUPPORT 30/40 PROGRAM NUMBERS 360N-EU-484 AND 360N-EU-485  
This publication contains information on the Emulation of 1401, 1440, and 1460 object programs under the control of the Disk Operating System. Compatibility Support/30 and Compatibility Support/40 allow emulation of these programs on the IBM System/360 Models 30 and 40, respectively. Compatibility Support/30 comprises the IBM 1401/1440/1460 Emulator Program, Number 360N-EU-484, and applicable Compatibility Features for the Model 30. Compatibility Support/40 comprises the 1401/1440/1460 Emulator Program, Number 360N-EU-485, and the applicable Compatibility Features for the Model 40. In addition, the 1401, 1440, and 1460 object program can be run on the IBM System/360 Model 25 using the 1401/1440/1460 Emulator Program for Compatibility Support/30 in conjunction with applicable Compatibility Features for the Model 25.  
General information concerning machine requirements, program generation, simulation techniques, data format, control cards, and programming considerations is included, as are detailed explanations of Operator Service Functions, operating procedures, console messages, and special instructions added by the Compatibility Features for the Models 30 and 40.  
The 1400 Emulator Program under DOS allows the user to run the 1401/1440/1460 programs, with little or no reprogramming under the Disk Operating System in conjunction with the Compatibility Features. This allows 1400 programs to be run in a stacked job environment, mixed with System/360 jobs.
- GC27-6942  
IBM SYSTEM/360 OPERATING SYSTEM INTRODUCTION TO MAIN STORAGE HIERARCHY SUPPORT FOR IBM 2361 MODELS 1 AND 2  
This publication is an introduction to programming requirements and considerations for the division of main storage into two separately addressable segments called hierarchies.  
IBM 2361 Core Storage is economical bulk storage that can be attached to processor storage units. Main Storage

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Hierarchy Support is programming support for the 2361. This support allows 2361 Core Storage to be selectively addressed, so that storage can be allocated from it for work areas or for loading of modules. Main Storage Hierarchy Support can be used with all configurations of the operating system except MVT with Model 65 multiprocessing.

This publication is for planners who need to decide on the physical configuration of an information processing system and for systems analysts and programmers who want to use the system most efficiently.

GC27-6948 EMULATING THE IBM 7074 ON THE IBM SYSTEM/370 MODEL 165 USING OS/360

This publication contains planning information about the IBM 7074 Emulator Program for the System/370 Model 165. The emulator program runs as a problem program under the MFT or MVT version of the System/360 Operating System. The Model 165 must be equipped with the IBM Compatibility Feature #7117. The emulator program and the compatibility feature enable programs written for the IBM 7074 Data Processing System to be executed on the Model 165.

The information in this publication is for installation personnel responsible for evaluating, selecting, and implementing system configurations.

GC27-6949 IBM SYSTEM/360 OPERATING SYSTEM: OPERATOR'S GUIDE FOR DISPLAY CONSOLES

This publication tells system operators how to use cathode ray tube (CRT) display devices as operator consoles to run MFT or MVT configurations of the IBM System/360 Operating System. The manual describes in detail the operating techniques for the Model 85 Operator Console (Feature 5450), the 2250 Display Unit, and the 2260 Display Station (local attachment). A summary of device characteristics and a glossary are included. The book must be used in conjunction with IBM SYSTEM/360 OPERATING SYSTEM: OPERATOR'S REFERENCE, Form GC28-6691, and IBM SYSTEM/360 OPERATING SYSTEM: OPERATOR'S PROCEDURES, Form GC28-6692.

GC27-6950 IBM SYSTEM/360 OPERATING SYSTEM PLANNING FOR DISPLAY CONSOLES

This publication contains planning information about Device Independent Display Operator Console Support (DIDOCs) for system analysts and other personnel who are concerned with planning, evaluating, and implementing System/360 Operating System configurations. DIDOCs provides uniform operating characteristics for 2250 Display Units, Models 1 and 3, 2260 Display Stations, Model 1 (local attachment), and Model 85 CRT Displays, and will supersede all existing MVT system equipped with Multiple Console Support (MCS).

- The information is presented in two parts:
- 1) A description of DIDOCs, its capabilities, and the environment in which it functions.
  - 2) A discussion of the advantages of using display operator consoles, their effect on system performance, and how they are generated into a system.

There are no prerequisite publications, but the reader is assumed to have an understanding of the system configuration and the requirements for operator consoles at his installation.

GC27-6951 EMULATING THE IBM 7094 ON IBM MODELS 85 AND 165 USING OS/360

This manual describes the IBM 709/7090/7094/7094 II Emulator Program for the IBM System/370 Model 165, and provides information needed to use the program. The emulator program executes object programs for the IBM 709, 7090, 7094, and 7094 II Data Processing Systems, and runs as a problem program under the MFT or MVT configuration of the IBM System/360 Operating System. The System/370 Model 165 must be equipped with the IBM Compatibility Feature #7119. The emulator program uses the compatibility feature to perform the more complex and frequently occurring processes of emulation.

The manual also describes three programs that are distributed with the emulator: the tape preprocessor program, the tape postprocessor program, and the emulator system-output writer. The preprocessor and postprocessor programs are data manipulation programs that change the format of 7094 data. The writer prints 7094 data spooled on the SYSOUT data set.

System planners and programmers should use this manual for planning, generating, using, and modifying the emulator. Programmers responsible for executing 7094 programs should use the manual for instructions on processing 7094 data and executing the emulator. System operators should use the manual for instructions on how to communicate with the emulator program. All messages issued by the emulator and

the data manipulation programs are included in an Appendix. Programmers and planners should be experienced with the IBM 709, 7090, 7094, or 7094 II Data Processing System, and have a working knowledge of either the MFT or MVT configuration of the IBM System/360 Operating System.

GC27-6952 EMULATING THE IBM 7080 ON THE IBM SYSTEM/370 MODEL 165 USING OS/360 - PROGRAM NUMBER 360C-BU-737

This manual describes the IBM 7080 Emulator Program for the IBM System/370 Model 165, and provides information needed to use the program. The emulator program executes object programs for the IBM 7080 Data Processing System, and runs as a problem program under the MFT or MVT configuration of the IBM System/360 Operating System. The System/370 Model 165 must be equipped with the IBM Compatibility Feature #7118. The emulator program uses the compatibility feature to perform the more complex and frequently occurring processes of emulation.

The manual also describes three programs that are distributed with the emulator: the tape preprocessor program, the tape postprocessor program, and the emulator system-output writer. The preprocessor and post processor programs are data manipulation programs that change the format of 7080 data. The writer prints 7080 data spooled on the SYSOUT data set.

System planners and programmers should use this manual for planning, generating, using, and modifying the emulator. Programmers responsible for executing 7080 programs should use the manual for instructions on processing 7080 data and executing the emulator. System operators should use the manual for instructions on how to communicate with the emulator program. All messages issued by the emulator and the data manipulation programs are included in an Appendix. Programmers and planners should be experienced with the IBM 7080 Data Processing System and with the IBM System/360 Operating System, having a working knowledge of either the MFT or the MVT configuration.

SC27-6955 VIDEO/370 USERS GUIDE - PROGRAM PRODUCTS 5734-RC5, 5736-RC3 \*N

This manual provides the information that an operator requires to use VIDEO/370 for data entry and verification at the IBM 3275 Display Station.

VIDEO/370 is an IBM program product that allows data entry from local or remote display stations to provide data for application programs. Formats, commands, and checking features specified by the installation allow dynamic error correction by the operator.

This publication describes the operator's role in the VIDEO/370 system and special VIDEO/370 aspects of the display station; the basic commands are features available to all operators; procedures for data verification; optional VIDEO/370 commands that provide more extensive editing capabilities; error recovery procedures, including explanations of diagnostic messages sent to the operator; and a sample VIDEO/370 data entry session. A glossary defines terms used in the publication as they relate to VIDEO/370.

Prerequisite Publication: Operator's Guide for the IBM 3270 Information Display System, GC27-2739.

GC27-6966 IBM OPERATING SYSTEM VIDEO/370 PROGRAM PRODUCT DESIGN OBJECTIVES PROGRAM NUMBER 5734-RC5

This general overview is intended for system managers and personnel responsible for the selection of data processing systems. It describes VIDEO/370, an IBM program product used for data entry and verification with the IBM 3277 and 3275 display stations.

GC27-6970 IBM SYSTEM/360 OPERATING SYSTEM PROBLEM DETERMINATION AIDS AND MESSAGES AND CODES FOR GPS AND GSP - PROGRAM NUMBERS AND MESSAGES AND CODES FOR GPS AND GSP - PROGRAM NUMBERS 360S-IO-523 AND 360S-LM-537

This manual contains aids for determining and solving problems that involve display programs that use either the Graphic Programming Services (GPS) for the IBM 2250 Display Unit and IBM 2260 Display Station or the Graphic Subroutines Package (GSP) for the IBM 2250 Display Unit. The aids are directed to the display operator, application programmer, system operator, system programmer, and system maintenance personnel.

The manual is divided into an introduction and six sections of problem determination aids:

- o Display Operator aids
- o Application programmer aids
- o Messages
- o Codes
- o Generalized trace facility
- o Problem-related data

The reader should be familiar with information in:

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- IBM System/360 Operating System:  
Graphic Programming Services (GPS) for the IBM  
2250 Display Unit, GC27-6909
- Graphic Programming Services (GPS) for the IBM  
2260 Display Station (Local Attachment), GC27-6912
- Graphic Subroutine Package (GSP) for FORTRAN IV,  
COBOL, and PL/I, GC27-6932.
- GC27-6975  
IBM 2260 BTAM AND 2260 GAM TO IBM 3270 BTAM CONVERSION  
GUIDE - PROGRAM NUMBERS 360S-CQ-513, 360N-CQ-469  
Users of the 2260 or 2265 display stations under DOS or OS  
who are considering the advantages of the 3270 display  
system should review this planning manual to understand what  
is involved in the conversion and what assistance is  
available from IBM. The book will aid installation  
managers, planners, and programmers.  
This book brings together information on differences --  
both programming and hardware -- that are basic to planning  
and carrying out conversion from 2260/2265 display stations  
to 3270 display stations. Dos and OS terminal control  
differences (for Basic Telecommunications Access Method and  
for Graphic Access Method) are summarized. For users who do  
not wish to completely rewrite their 2260 application  
programs, use of the IBM-provided 3270 BTAM data stream  
conversion macro instruction is described. Suggestions are  
given for user-written modifications to the data stream  
which, when used in conjunction with the conversion macro  
instruction, will give additional performance gains.  
The 3270 system is a new family of display devices that  
offer improved response times and faster transactions at  
lower costs. The system is designed for the whole range of  
alphameric display applications, including inquiry  
applications, data-entry and order-entry applications, and  
system console applications.  
Before using this publication the reader must be  
familiar with An Introduction to the IBM 3270 Information  
Display System, GA27-2739, and with the BTAM or GAM  
reference material for his application programs.
- GC27-6977  
DOS PROGRAMMING SUPPLEMENT FOR THE 3270 INFORMATION DISPLAY  
SYSTEM - MANUAL  
This publication contains system generation and storage  
estimate information for teleprocessing applications  
using the 3270 Information Display System and Release 26  
of the Disk Operating System (DOS). The information is in  
the form of supplements for these DOS Release 26  
publications:  
o DOS System Generation, GC24-5033  
o DOS Messages, GC24-5074  
o DOS OLREP, GC24-5086  
This publication also contains a list of other  
publications required to write applications involving the  
3270; the most important of these publications are DOS  
Basic Telecommunications Access Method, GC30-5001-9 and  
IBM 3270 Information Display System Component Description,  
GA27-2749.  
This publication is for system and application  
programmers planning or writing teleprocessing applications  
involving the 3270 and DOS Release 26. The information  
in this publication will be incorporated into other DOS  
publications in releases after Release 26.
- GC27-6978  
DOS VERSION 4 - BASIC TELECOMMUNICATIONS ACCESS METHOD  
MANUAL - PROGRAM NUMBER 370N-CQ-469  
This publication describes the Basic Telecommunications  
Access Method (BTAM) used with the System/370 Disk Operating  
System (DOS) control program. BTAM provides the READ/WRITE  
level macro instructions for the assembler-language  
programmer who is implementing programs for  
telecommunications applications.  
Included are macro instruction formats and descriptions  
and specific information on device-dependent considerations.  
For titles and abstracts of associated publications see  
the IBM System/370 Bibliography, GA22-6822.
- GC28-2000  
IBM SYSTEM/360 TIME-SHARING SYSTEM ASSEMBLER LANGUAGE  
SYSTEMS REFERENCE LIBRARY  
This publication describes the IBM System/360 Time Sharing  
System Assembler Language, a symbolic programming language  
used to write programs for IBM System/360. The language  
provides a convenient means for representing the machine  
instructions and related data necessary to program the IBM  
System/360, especially as related to Time Sharing System/360  
(TSS/360). The TSS/360 Assembler Program processes the  
language and provides auxiliary functions for preparing  
and documenting a program; the Assembler includes facilities  
for processing the assembler macro language.
- GC28-2001  
IBM SYSTEM/360 TIME-SHARING SYSTEM COMMAND SYSTEM USER'S  
GUIDE  
This publication contains information on the Command System  
in Time Sharing System/360. It gives to the user the  
facilities he needs for constructing, executing, and  
debugging his programs; also, he can create, modify, share,  
and copy data sets; he can move them to or from input/output  
devices. The user can modify and add to the IBM-supplied  
command system to meet his specific requirements.
- GC28-2003  
IBM SYSTEM/360 TIME SHARING SYSTEM CONCEPTS AND FACILITIES  
SYSTEMS REFERENCE LIBRARY  
Time Sharing System/360 is a comprehensive programming  
system used in conjunction with IBM System/360 computers  
that have time-sharing features. TSS/360 comprises a  
supervisory program, a group of service programs, and a  
group of user programs. The supervisory program controls  
operation of the system and provides the time-sharing  
environment. The service programs perform task- and data-  
management functions in response to user or system requests.  
The user programs perform language processing, linkage  
editing, and other work defined by the user's program  
programs.  
The primary purpose of TSS/360 is to provide many users  
with simultaneous conversational (on-line) access to a  
computing system that may have a single processor, or  
multiple processors. The combination of machine and program  
features gives each user the impression that he has sole  
possession of the system. He uses the system as if it had  
a directly accessible main-storage addressing space equal  
to the addressing capability of the system, rather than  
its actual main-storage capacity.  
While the system is operating conversationally, for  
many simultaneous users, it can also operate  
nonconversationally, with batch-type processing jobs, in  
the background.
- GC28-2004  
IBM SYSTEM/360 TIME-SHARING SYSTEM ASSEMBLER USER  
MACRO INSTRUCTIONS - SYSTEMS REFERENCE LIBRARY  
IBM System/360 Time Sharing System provides comprehensive  
program and data management services which, together with  
communication, bulk output, and interruption handling  
services, are requested through macro-instructions. These  
macro-instructions are written in the assembler language  
as an aid to programming and processing time-shared tasks.
- GC28-2005  
IBM SYSTEM/360 TIME-SHARING SYSTEM LINKAGE EDITOR  
SYSTEMS REFERENCE LIBRARY  
This publication describes the linkage editor, an optional  
service program available for the IBM System/360 Time  
Sharing System (TSS/360). The linkage editor connects and  
edits program modules that have been assembled or compiled  
separately to produce a single program module that can be  
efficiently loaded by the dynamic loader at execution time.  
Linkage editor facilities are illustrated in conversational  
and nonconversational modes of operation.
- GC28-2006  
IBM SYSTEM/360 TIME-SHARING SYSTEM  
TIME SHARING SUPPORT SYSTEM  
This publication describes the Time Sharing Support System  
and the command language used to operate it. This system  
is used only by system programmers with authority code O  
or P and is not intended to be available to any other Time  
Sharing System/360 users; consequently, this manual contains  
no information required by users other than properly  
authorized system programmers.  
The Time Sharing Support System is an on-line program  
error analysis facility that provides the capability of  
collecting data from the Time Sharing System/360 for  
analysis and of altering the Time Sharing System/360  
storage and machine registers. These functions may be performed  
on command from a terminal or dynamically during TSS/360  
execution; and the programs, tables, and control blocks  
of real, virtual, and secondary storage can be referenced.
- GC28-2007  
IBM SYSTEM/360 TIME-SHARING SYSTEM FORTRAN IV  
SYSTEMS REFERENCE LIBRARY  
This publication describes and illustrates the use of the  
IBM FORTRAN IV language for the IBM System/360 Time Sharing  
System (TSS/360).  
The IBM FORTRAN IV language is a symbolic programming  
language that parallels the symbolism and format of  
mathematical notation. It provides many programming  
features and facilities that can be used to express as a  
meaningful FORTRAN program the method of solution of a  
mathematical problem.

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- GC28-2000  
IBM SYSTEM/360 TIME SHARING SYSTEM SYSTEM PROGRAMMER'S GUIDE SYSTEMS REFERENCE LIBRARY  
IBM System/360 Time Sharing System (TSS/360) makes a distinction between user and system programmers. This publication is specifically intended for persons responsible for maintaining, modifying, or extending the system and discusses:
1. Operating environment
  2. Program structure
  3. Coding practices and conventions
  4. Privileged supervisor call instructions
  5. Serviceability aids
  6. System macro definitions
  7. Changing TSS/360
  8. Privilege Class E
- GC28-2010  
IBM SYSTEM/360 TIME-SHARING SYSTEM SYSTEM GENERATION AND MAINTENANCE  
This publication explains how an installation generates and maintains IBM System/360 Time Sharing System (TSS/360). System generation is the process of specifying and creating an installation adapted TSS/360. An operable time-sharing system is necessary for system generation. Initially, a basic system is provided. System maintenance is the procedure for incorporating changes to TSS/360. This publication presents:
- The construction of the basic TSS/360;
  - The method of specifying, through SYSGEN macro instructions, such installation-dependent information as machine configuration, task-management requirements, and command-language default specifications;
  - The application of this information to create a new TSS/360;
  - The maintenance process for TSS/360;
  - The method of dynamically modifying TSS/360 for the duration of a startup-to-shutdown session.
- GC28-2017  
IBM SYSTEM/360 TIME-SHARING SYSTEM TERMINAL USER'S GUIDE  
This manual gives instructions for operating the IBM 2741 Communications Terminal and the IBM 1050 Data Communications System in the IBM System/360 Time Sharing System.
- GC28-2023  
IBM SYSTEM/360 TIME SHARING SYSTEM MASTER INDEX  
This index has been compiled from the indexes of the existing SRL publications that describe the IBM System/360 Time Sharing System. It is a subject index that refers the reader to the individual publications. Actual page references will be found in the individual indexes.
- GC28-2024  
IBM SYSTEM/360 TIME-SHARING SYSTEM MANAGER'S AND ADMINISTRATOR'S GUIDE  
This manual provides detailed information on the command system as used by system managers and system administrators in Time Sharing System/360. They share an identical set of commands with which they control access to the time sharing system.
- GC28-2025  
IBM SYSTEM/360 TIME-SHARING SYSTEM FORTRAN PROGRAMMER'S GUIDE  
This publication describes how to use the IBM System/360 Time Sharing System (TSS/360) for compiling and executing programs written in the FORTRAN IV language. It also describes how to use the services and features of TSS/360 that, while not directly related to FORTRAN programming, are frequently of use to the FORTRAN programmer.
- GC28-2026  
IBM SYSTEM/360 TIME SHARING SYSTEM FORTRAN IV LIBRARY SUBPROGRAMS  
This publication describes the FORTRAN IV library subprograms provided with IBM System/360 Time Sharing System (TSS/360) and provides the information necessary to use the subprograms in either a FORTRAN IV or an assembler-language program.
- GC28-2028  
IBM SYSTEM/360 TIME SHARING SYSTEM TEST AND MAINTENANCE USER'S GUIDE - PROGRAM NUMBER 360G-CL-627  
This publication describes, for the IBM System/360 Time Sharing System (TSS/360), how to use the On Line Test System (OLTS), and how to retrieve system error recordings using the Error Recording Edit and Print (EREPs7/UHMERP) procedure. Device partitioning and system quiescence are described, and the error recordings interpreted. This publication is meant for use by system monitor and/or maintenance personnel. It may be used to determine the hardware component responsible for failures, and in the testing of the component.
- GC28-2032  
IBM SYSTEM/360 TIME-SHARING SYSTEM ASSEMBLER PROGRAMMER'S GUIDE  
This publication explains the use of Time Sharing System/360 (TSS/360) for assembler language applications programmers. It describes how to assemble, store, and execute programs in TSS/360, as well as how to identify data sets, process them as input/output in problem programs, and manipulate them in various ways (such as erasing, copying, modifying, and cataloging them). Task Management and Data Set Management are described so that the reader may efficiently utilize the time sharing facilities. Both system-supplied and user-defined commands are shown, including the flexibility of the Text Editor, the BUILTIN command, PROCDEF, and the User Profile.
- GC28-2033  
IBM SYSTEM/360 TIME-SHARING SYSTEM OPERATOR'S GUIDE  
This manual provides detailed information on the functions of the system operator for the time sharing, and on the facilities of the common language reserved for the operators. The system operator has a set of commands which he controls and monitors the system configuration and handles system requests.
- GC28-2034  
IBM SYSTEMS/360 TIME SHARING SYSTEM MULTITERMINAL TASK PROGRAMMING AND OPERATION PROGRAM NUMBER 360S-CI-555  
This publication describes how to create a multiterminal (MTT) task, which will run under the IBM System/360 Time Sharing System (TSS/360). It also explains how to write an MTT application program, and how to connect it to a multiterminal task. The publication is meant for use by TSS/360 installations as a reference book for persons responsible for administering and/or writing an MTT application program.
- GC28-2037  
IBM SYSTEM/360 TIME SHARING SYSTEM SYSTEM MESSAGE  
The IBM System/360 Time Sharing System provides for a dialogue between the user and the system. The system participates in this dialogue with a series of messages, which provide the recipient with the information he requires to fulfill his task. These messages may be received at a remote terminal in the conversational mode, in the data set created as part of the output of a nonconversational task, or at the operator's terminal in the machine room. This publication lists and explains all of the messages issued by all IBM-supplied components of the IBM System/360 Time Sharing System. Furthermore, it contains additional information with each message, such as the identification code of the modules issuing and determining the need for the message, the transmittal technique, and where appropriate the format of the associated dump or the completion code.
- GC28-2038  
IBM SYSTEM/360 TIME-SHARING SYSTEM INDEPENDENT UTILITIES  
This publication discusses the uses of the independent utility programs that support IBM System/360 Time Sharing System (TSS/360), their features, functions, capabilities, control statements, and record formats. The TSS/360 independent utility programs are: direct-access storage device initialization (DASDI), direct-access storage device dump/restore (DASDDR), direct-access prints (DADUMP), and core dump.
- GC28-2043  
IBM SYSTEM/360 TIME-SHARING SYSTEM ADDENDUM PROGRAM NUMBER 360S-CI-555  
This addendum presents the specifications for program changes that have been made recently to the IBM System/360 Time Sharing System (TSS/360). This addendum should be regarded as a required supplement to the present TSS/360 publications.
- GC28-2044  
IBM SYSTEM/360 TIME-SHARING SYSTEM PLANNING FOR REMOTE JOB ENTRY  
This is a planning aid to be used prior to the availability of the remote job entry feature of IBM System/360 Time Sharing System. Remote job entry provides all central TSS/360 batch processing facilities to remote locations. The input/output device used at remote stations is an IBM 2780 Data Transmission Terminal, Model 1.

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- GC28-2845  
IBM SYSTEM/360 TIME-SHARING SYSTEM PL/I REFERENCE MANUAL  
PROGRAM NUMBERS 360G-CL-625 360G-CL-626  
 This publication is a companion volume to IBM System/360 Time Sharing System PL/I Programmer's Guide, Order GC28-2849. Together the two books form a guide to the writing and execution of PL/I programs under the control of an IBM System/360 Time Sharing System that includes the PL/I compiler.
- GC28-2846  
IBM SYSTEM/360 TIME-SHARING SYSTEM PL/I LIBRARY  
COMPUTATIONAL SUBROUTINES  
 This publication gives details of the computational subroutines available in the PL/I Library. These subroutines are used by the PL/I compiler in the implementation of PL/I built-in functions and of the operators used in the evaluation of PL/I expressions. Not all PL/I built-in functions and expression operators are supported by the PL/I Library; the compiler generates in-line code for a small number of them. The details provided include summaries of the mathematical methods used, and (where appropriate) figures for range and accuracy.
- GC28-2848  
IBM SYSTEM/360 TIME SHARING SYSTEM INTRODUCING TSS/360  
A PRIMER FOR FORTRAN USERS  
PROGRAM NUMBER 360S-CI-555  
 A subset of Time Sharing System/360 (TSS/360) is presented in this book to allow use of basic system facilities without an extensive knowledge of the command system, by which system functions are invoked. The reader of the book is presumed to have at least a basic knowledge of FORTRAN. In addition, the user profile under which the reader will use TSS/360 should be altered as explained in Appendix B. This can be done by the reader himself, if necessary; preferably, however, it should be done by someone in a supervisory or tutorial relationship to the reader. The altered user profile can be changed again by the reader if he progresses to using the full command system. The full system is explained in other books of the TSS/360 Systems Reference Library. This book contains basic information on the three kinds of terminals that can be used with TSS/360.
- GC28-2849  
IBM SYSTEM/360 TIME SHARING SYSTEM PL/I PROGRAMMER'S GUIDE  
 This publication is a comparison volume to IBM System/360 Time Sharing System PL/I Language Reference Manual, Order No. GC28-2845. Together the two books form a guide to the writing and execution of PL/I programs under the control of an IBM System/360 Time Sharing System that includes a PL/I Compiler. This publication is concerned with the relationship between a PL/I program and the Time Sharing System. It explains how to compile and execute a PL/I program, and introduces the command system, data management, and other essential features of TSS/360.
- GC28-2856  
IBM SYSTEM/360 TIME SHARING SYSTEM  
DATA MANAGEMENT FACILITIES  
 The data management facilities of TSS/360, described in this manual provide the users with standardized methods for handling collections of data, while taking maximum advantage of the Time-Shared environment in which they operate.
- GC28-2857  
IBM SYSTEM/360 TIME SHARING SYSTEM REMOTE JOB ENTRY  
 Remote Job Entry (RJE) allows users at remote locations to submit punched-card input to, and receive printed output from, the central TSS/360 installation. RJE users can enter card decks in the same format as that used at the local, online card reader. Nonconversational SYSIN data sets can be entered for execution, and data-card card decks can be entered and stored as virtual storage data sets. Output can be returned to the originating location or routed to the installation's high-speed printer. SYSOUT data sets are returned to the originating location unless redirected by the system operator. This publication describes RJE concepts, terminology, and procedures. Information required by users at remote locations, including RJE control statements, is presented; also, commands used by the system manager, system administrator, and system operator to control the RJE system are described.
- GC28-6388  
IBM SYSTEM/360 OPERATING SYSTEM COBOL (F) PROGRAMMER'S GUIDE  
PROGRAM NUMBER 360S-CB-524 360S-LM-525  
 This publication describes how to compile, linkage edit, and execute a COBOL (F) Program. The text also describes
- the output from each of these. In addition it explains options of the compiler and many available features of the operating system.
- GC28-6394  
IBM SYSTEM/360 DISK OPERATING SYSTEM - USA STANDARD COBOL  
COBOL (Common Business Oriented Language) is a programming language, similar to English, that is used for commercial data processing. It was developed by the Conference On Data Systems Languages (CODASYL). The U. S. A. standard of the language is USA Standard COBOL, X3.23-1968, as specified by the United States of America Standards Institute (USASI).  
 IBM System/360 Disk Operating System USASI COBOL incorporates the eight processing modules defined in the USA standard. These modules include: Nucleus, Table Handling, Sequential Access, Random Access, Sort, Report Writer, Segmentation, and Library. A significant number of IBM extensions are implemented as well. The IBM implementation of USA Standard COBOL also complies with the first Draft ISO Recommendation on COBOL. This publication gives the programmer the rules for writing programs that are to be compiled by the IBM USASI COBOL compiler under the Disk Operating System. It is meant to be used as a reference manual in the writing of IBM USASI COBOL programs.
- GC28-6395  
IBM SYSTEM/360 COBOL DIFFERENCES USA STANDARD COBOL  
CONVERSION  
 This publication summarizes the differences between the current IBM System/360 COBOL languages -- COBOL D, COBOL E, and COBOL F -- and the IBM COBOL languages conforming to the full USA Standard COBOL -- IBM System/360 Operating System USASI COBOL and IBM System/360 Disk Operating System USASI COBOL. It also summarizes new features offered in the IBM USASI COBOL languages. This Differences Manual is meant to be a supplementary reference manual. Therefore, it is advisable that it be used only in conjunction with the IBM USASI COBOL Language Manuals.
- GC28-6396  
IBM SYSTEM/360 OPERATING SYSTEM USA STANDARD COBOL  
COBOL (Common Business Oriented Language) is a programming language, similar to English, that is used for commercial data processing. It was developed by the Conference on Data Systems Languages (CODASYL). The U. S. A. standard of the language is USA Standard COBOL X3.23-1968, as specified by the United States of America Standards Institute.  
 IBM System/360 Operating System USASI COBOL incorporates the eight processing modules defined in the USA standard. These modules include: Nucleus, Table Handling, Sequential Access, Random Access, Sort, Report Writer, Segmentation, and Library. A significant number of IBM extensions are implemented as well. The IBM implementation of USA Standard COBOL also complies with the first Draft ISO Recommendation on COBOL. This publication gives the programmer the rules for writing programs that are to be compiled by the IBM USASI COBOL compiler under the operating system. It is meant to be used as a reference manual in the writing of IBM USASI COBOL programs.
- GC28-6397  
IBM SYSTEM/360 DISK OPERATING SYSTEM FORTRAN IV  
PROGRAMMER'S GUIDE PROGRAM NUMBERS 360N-FO-479 360N-LM-480  
 This publication describes the procedures for compiling and executing FORTRAN programs under control of the Disk Operating System. Its purpose is to guide the programmer with examples and techniques of the FORTRAN language. It also exposes the user to the components of the control program and facilities of the IBM System/360 Disk Operating System.
- GC28-6398  
IBM SYSTEM/360 DISK OPERATING SYSTEM: USA STANDARD COBOL  
PROGRAMMER'S GUIDE  
PROGRAM NUMBER 360N-CB-482  
 This publication describes how to compile, linkage edit, and execute a USA Standard COBOL program under the control of the IBM System/360 Disk Operating System. The text also describes the output from each of these steps. In addition, it explains features of the compiler and available options of the operating system.
- GC28-6399  
AMERICAN NATIONAL STANDARD COBOL PROGRAMMER'S GUIDE  
 This publication describes how to compile an American National Standard COBOL X3.23-1968 program using Version 2 of the IBM System/360 Operating System Full COBOL compiler. It also discusses how to linkage edit or load

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and execute the program under control of the IBM System/360 Operating System. There is a description of the output of each of these steps, i.e., compile, load, linkage edit, and execute. In addition, there is an explanation of the features of the compiler and available options of the operating system. Note that American National Standard COBOL was formerly known as USA Standard COBOL.

GC28-6400  
IBM SYSTEM/360 CONVERSION AIDS: COBOL-TO-USA STANDARD COBOL LANGUAGE CONVERSION PROGRAM  
PROGRAM NUMBERS 360N-CV-489, 360C-CV-713  
 This publication describes the IBM COBOL Language Conversion Programs (COBOL LCP). The COBOL LCPs translate existing IBM System/360 COBOL input programs into USA Standard COBOL input programs. COBOL D programs are translated into DOS USA Standard COBOL programs; COBOL E and F programs are translated into OS USA Standard COBOL programs. The LCPs are distributed as problem programs which operate under IBM System/360 Disk Operating System and IBM System/360 Operating System.

GC28-6401  
IBM SYSTEM/360 DISK OPERATING SYSTEM  
AMERICAN NATIONAL STANDARD SUBSET COBOL COMPILER AND LIBRARY - PROGRAM NUMBER 5736-CB1  
 This Program Product Design Objectives (PPDO) describes the design objectives and provides the estimated availability date of the subject Program Product.

GC28-6402  
IBM SYSTEM/360 DISK OPERATING SYSTEM:  
AMERICAN NATIONAL STANDARD SUBSET COBOL COMPILER  
GENERAL INFORMATION  
 No abstract available.

GC28-6403  
IBM SYSTEM/360 DISK OPERATING SYSTEM:  
AMERICAN NATIONAL STANDARD SUBSET COBOL  
PROGRAM NUMBER 5736-CB1  
 COBOL (Common Business Oriented Language) is a programming language, similar to English, that is used for commercial data processing. It was developed by the Conference on Data Systems Languages (CODASYL). The U. S. A. standard of the language is American National Standard COBOL, X3.23-1968, (formerly known as USA Standard COBOL), as approved by the American National Standards Institute (ANSI).  
 IBM System/360 Disk Operating System American National Standard Subset COBOL incorporates six processing modules of the full American National Standard. These modules are:

Nucleus	2NUC 1,2
Sequential Access	2SEQ 1,2
Random Access	2RAC 0,2
Table Handling	2TBL 1,3
Library	1LIB 0,2
Segmentation	1SEG 0,2

A significant number of IBM extensions to these modules are implemented as well; these extensions are printed on a shaded background.

This publication gives the programmer the rules for writing programs that are to be compiled by the IBM American National Standard Subset COBOL compiler under the Disk Operating System. It is meant to be used as a reference manual in the writing of IBM American National Standard COBOL programs.

GC28-6406  
IBM SYSTEM/360 OPERATING SYSTEM FULL  
AMERICAN NATIONAL STANDARD (ANSI) COBOL COMPILER  
VERSION 3 DESIGN OBJECTIVES SHEET, PROGRAM NUMBER 5734-CB1  
 This Program Product Design Objectives (PPDO) describes the design objectives and provides the estimated availability date of the subject Program Product.

GC28-6407  
IBM SYSTEM/360 OPERATING SYSTEM AMERICAN NATIONAL STANDARD  
FULL COBOL COMPILER AND LIBRARY VERSION 3  
GENERAL INFORMATION  
PROGRAM NUMBER 5734-CB1  
 This publication gives general information about the IBM System/360 Operating System American National Standard Full COBOL Compiler and Library, Version 3, an implementation compatible with the highest level of American National Standard COBOL. The Version 3 Compiler and Library is a Program Product that operates under control of the IBM System/360 Operating System. Included here are brief descriptions of the compiler's features, as well as information on operating system requirements and machine configuration.  
 This publication is intended as an aid in evaluation and planning; it is not meant for the COBOL programmer. Publications for the COBOL Programmer will be provided

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when the IBM System/360 Operating System American National Standard Full COBOL Compiler and Library, Version 3, becomes available.

GC28-6408 \*N  
OS FULL AMERICAN NATIONAL STANDARD COBOL COMPILER VERSION 4  
PROGRAM PRODUCT DESIGN OBJECTIVES - PROGRAM NUMBER 5734-CB2  
 The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.

GC28-6428  
IBM SYSTEM/360 DISK OPERATING SYSTEM  
AMERICAN NATIONAL STANDARD FULL COBOL COMPILER VERSION 3  
PROGRAM NUMBER 5736-CB2  
 This Program Product Design Objectives (PPDO) describes the design objectives and provides the estimated availability date of the subject Program Product.

GC28-6421  
IBM SYSTEM/360 DISK OPERATING SYSTEM  
AMERICAN NATIONAL STANDARD FULL COBOL COMPILER VERSION 3  
AND ASSOCIATED COBOL OBJECT-TIME SUBROUTINE LIBRARY  
GENERAL INFORMATION  
 This publication gives general information about the IBM System/360 Disk Operating System American National Standard Full COBOL Compiler Version 3, an implementation compatible with the highest level of American National Standard COBOL, and its associated COBOL object-time Subroutine Library. The Version 3 Compiler and the Subroutine Library are Program Products that operate under control of the IBM System/360 Disk Operating System. Included here are brief descriptions of the compiler's features and a description of the Subroutine Library, as well as information on operating system requirements and machine configuration.  
 This publication is intended as an aid in evaluation and planning; it is not meant for the COBOL programmer. Publications for the COBOL programmer will be provided when the IBM System/360 Disk Operating System American National Standard Full COBOL Compiler Version 3 and the Subroutine Library become available.

GC28-6428  
IBM SYSTEM/360 DISK OPERATING SYSTEM  
AMERICAN NATIONAL STANDARD FULL COBOL OBJECT-TIME  
SUBROUTINE LIBRARY - PROGRAM NUMBER 5736-IM2  
 This Program Product Design Objectives (PPDO) describes the design objectives and provides the estimated availability date of the subject Program Product.

GC28-6429  
IBM SYSTEM/360 OPERATING SYSTEM: LINKAGE EDITOR (E)  
INSTALLATION REFERENCE MATERIAL  
PROGRAM NUMBER 360S-ED-510  
 The Linkage Editor (E) is released as an independent component intended for installation under the IBM System/360 Operating System. The minimum engineering change level required for implementation of the component is the same as that required for Release 18 of the Operating System. No functional or performance enhancements over the Release 18 version of the Linkage Editor (E) have been incorporated into this component and none are planned for the future.  
 This publication defines the procedure necessary to install the Linkage Editor (E) in an existing operating system. It is intended for use by system programmers or planners who supervise the generation and maintenance of an installation's operating system. Information on using the Linkage Editor (E) can be found in IBM SYSTEM/360 OPERATING SYSTEM: LINKAGE EDITOR AND LOADER, Form GC28-6538-8. The internal logic of the Linkage Editor (E) is described in IBM SYSTEM/360 OPERATING SYSTEM: LINKAGE EDITOR (E) PROGRAM LOGIC MANUAL, Form GY28-6618.

GC28-6430  
IBM SYSTEM/360 OPERATING SYSTEM: FORTRAN IV (E) COMPILER,  
INSTALLATION REFERENCE MATERIAL  
PROGRAM NUMBER 360S-FC-092  
 The Basic FORTRAN IV (E) compiler is released as an independent component that requires installation under the IBM System/360 Operating System. The minimum engineering change level required for implementation of the component is the same as that required for Release 18 of the operating system. No functional or performance enhancements over the Release 18 version of the Basic FORTRAN IV (E) compiler have been incorporated into this component and none are planned for the future.  
 This publication describes the procedure for installing the Basic FORTRAN IV (E) compiler in an existing operating system. It is intended for use by system programmers or planners who supervise the generation and maintenance of an installation's operating system. Information on using the compiler can be found in IBM SYSTEM/360 OPERATING SYSTEM: BASIC FORTRAN IV (E) PROGRAMMER'S GUIDE, Form

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- GC28-6603. The internal logic of the compiler is described in IBM SYSTEM/360 OPERATING SYSTEM: FORTRAN IV (E) PROGRAM LOGIC MANUAL, Form 6Y28-6601.
- GC28-6431 \*N  
OS FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY, VERSION 4, PLANNING GUIDE - PROGRAM PRODUCT 5734-CB2  
No abstract available.
- SC28-6432  
IBM SYSTEM/360 OPERATING SYSTEM FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY, VERSION 3, INSTALLATION REFERENCE MANUAL, PROGRAM NUMBER 5734-CB1  
No abstract available.
- SC28-6433  
IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION COBOL PROMPTER TERMINAL USER'S GUIDE AND REFERENCE INFORMATION PROGRAM NUMBER 5734-CP1  
This publication describes how to use the COBOL Prompter to invoke the Program Product IBM Full American National Standard COBOL Compiler and Library, Version 3, under Operating System/360 TSO.  
This publication is directed to the COBOL programmer, who is working at a time sharing terminal and is familiar with the Time Sharing Option.  
Section 1 contains procedures for using the prompter and debugging at the terminal as well as a summary of data set naming conventions and sample terminal sessions. Messages to the terminal user are described. This section supplements IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION TERMINAL USER'S GUIDE, Order No. GC28-6763.  
"Section 2: Reference Information" describes the COBOL command that invokes the prompter. This section is designed to be inserted in IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION COMMAND LANGUAGE REFERENCE, Order No. GC28-6732.
- SC28-6434  
IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) COBOL PROMPTER INSTALLATION REFERENCE MATERIAL 5734-CP1  
No abstract available.
- GC28-6435  
IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) COBOL PROMPTER PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-CP1  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GC28-6436  
IBM SYSTEM/360 OS FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY, VERSION 3, PROGRAM PRODUCT SPECIFICATIONS (PPS) - PROGRAM NUMBER 5734-CB1  
This flyer describes 360 ANS COBOL Version 3 specifications for OS.
- SC28-6437  
IBM SYSTEM/360 OPERATING SYSTEM FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY, VERSION 3, PROGRAMMER'S GUIDE - PROGRAM NUMBER 5734-CB1  
This programmer's guide describes the programming and use of ANS COBOL Version 3 under OS/360.
- SC28-6438  
IBM SYSTEM/360 DISK OPERATING SYSTEM SUBSET AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY INSTALLATION REFERENCE MATERIAL - PROGRAM NUMBER 5736-CB1  
This publication contains system related information needed to install the IBM Subset American National Standard COBOL Compiler and Library, a program product that operates under control of the IBM System/360 Disk Operating System.  
This manual consists of two sections. The first section, "Program Product Installation," is directed to the system programmer or planner who is responsible for operating system generation and maintenance. The second section, "Operator Messages," is directed to the console operator. Each section is designed to supplement an existing IBM System/360 Disk Operating System publication.  
"Program Product Installation" describes the system requirements, work file requirements, IOCS module requirements, and storage requirements for the Subset COBOL Compiler and Library. The installation procedure needed to add the compiler and library to an existing operating system is also described. This section supplements DOS System Generation and Maintenance, Order No. GC24-5633.  
"Operator Messages" describes the messages to the console that the operator may be required to answer. This
- section supplements DOS Messages and Communications, Order No. GC24-5674.
- SC28-6439  
IBM SYSTEM/360 DISK OPERATING SYSTEM SUBSET AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY PROGRAMMER'S GUIDE - PROGRAM NUMBER 5736-CB1  
This publication describes how to compile an American National Standard COBOL X3.23-1968 Program using the IBM S/360 Disk Operating System Subset American National Standard COBOL compiler. It also describes how to link edit the resulting object module, and execute the program. Included is a description of the output from each of these three steps: compile, link edit, and execute. In addition, this publication explains features of the compiler and available options of the operating system.
- SC28-6440  
IBM SYSTEM/360 OPERATING SYSTEM FULL AMERICAN NATIONAL STANDARD COBOL, VERSION 3, MESSAGES PROGRAM NUMBER 5734-CB1  
This publication contains messages issued by the Program Product IBM System/360 Operating System: Full American National Standard COBOL Compiler and Library, Version 3. Additional object-time messages are also included. For each message, either a Programmer or an Operator Response suggest appropriate problem determination action. In addition, there is a brief discussion of multiple console support (MCS) considerations.  
Directed at either the COBOL programmer or the operator, this publication presents the messages in alphanumeric order within each of the two main sections, "Compile-Time Messages" and "Object-Time Messages".  
A co-requisite to this publication, for system messages, is IBM SYSTEM/360 OPERATING SYSTEM: MESSAGES AND CODES (GC28-6631).
- SC28-6441  
IBM SYSTEM/360 DISK OPERATING SYSTEM: FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY, VERSION 3 SYSTEM REFERENCE LIBRARY PROGRAMMER'S GUIDE PROGRAM NUMBERS 5736-CB2, 5736-LM2  
No abstract available.
- SC28-6442  
IBM SYSTEM/360 DISK OPERATING SYSTEM: FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY, VERSION 3 SYSTEM REFERENCE LIBRARY INSTALLATION REFERENCE MATERIAL PROGRAM NUMBERS 5736-CB2, 5736-LM2  
No abstract available.
- GC28-6443  
IBM SYSTEM/360 DISK OPERATING SYSTEM FULL AMERICAN NATIONAL STANDARD COBOL COMPILER VERSION 3 SYSTEM REFERENCE LIBRARY PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-CB2  
These program product specifications refer to IBM System/360 Disk Operating System Full American National Standard COBOL Compiler Version 3 (5736-CB2).
- GC28-6444  
IBM SYSTEM/360 DISK OPERATING SYSTEM: FULL AMERICAN NATIONAL STANDARD COBOL OBJECT TIME SUBROUTINE LIBRARY PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-LM2  
Specification sheet for program named in title.
- SC28-6445  
IBM SYSTEM/360 DISK OPERATING SYSTEM: FULL AMERICAN NATIONAL STANDARD COBOL VERSION 3 MESSAGES - SYSTEM REFERENCE LIBRARY MANUAL - PROGRAM NUMBERS 5736-CB2, 5736-LM2  
No abstract available.
- SC28-6446  
IBM SYSTEM/360 DISK OPERATING SYSTEM SUBSET AMERICAN NATIONAL STANDARD COBOL MESSAGES - PROGRAM NUMBER 5736-CB1  
This publication provides the information necessary to interpret and utilize the diagnostic messages issued by the Program Product IBM System/360 Disk Operating System: Subset American National Standard COBOL Compiler and Library.  
The intended audience is the applications programmer debugging a Subset American National Standard COBOL program and the console operator running the program.  
The book is divided into two sections, "Compile-Time Messages" and "Object-Time Messages." The description of each message includes the identifying alphanumeric code, the message test, an explanation of the error condition, the resulting compiler action, and the appropriate response to correct the error.  
The co-requisites to this publication are IBM System/360 Disk Operating System: Subset American National Standard

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- COBOL, Order No. GC28-6403, and IBM System/360 Disk Operating System: Subset American National Standard COBOL Compiler and Library Programmer's Guide, Order No. SC28-6439.
- GC28-6450  
IBM SYSTEM/360 DISK OPERATING SYSTEM SUBSET AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY (PROGRAM PRODUCT SPECIFICATIONS) PROGRAM NUMBER 5736-CB1  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GC28-6454  
IBM OS COBOL INTERACTIVE DEBUG AND (TSO) COBOL PROMPTER GENERAL INFORMATION MANUAL - PROGRAM PRODUCTS 5734-CB4, 5734-CP1 \*N  
This publication is directed to data processing system planners and analysts. It is intended as an aid in evaluation in planning for the use of IBM OS COBOL Interactive Debug and/or the IBM OS (TSO) COBOL Prompter. These two program products operate under the Time Sharing Option (TSO) of the IBM Operating System. Detailed planning information for TSO can be found in the publication IBM System/360 Operating System: Time Sharing Guide, Order No. GC28-6698.  
Both program products are designed for use with the program products IBM OS Full American National Standard COBOL Compiler, Version 4, and the IBM OS Full American National Standard COBOL Object-time Subroutine Library, Version 4. The TSO COBOL Prompter can also be used with the program product IBM OS Full American National Standard COBOL Compiler and Library, Version 3.  
The COBOL Interactive Debug program and the COBOL Prompter can be used under any release of the Operating System that supports TSO.
- GC28-6461  
IBM DISK OPERATING SYSTEM SUBSET AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY PROGRAM PRODUCT DESIGN OBJECTIVE - PROGRAM NUMBER 5736-CB1  
The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GC28-6463  
IBM OS COBOL INTERACTIVE DEBUG PROGRAM PRODUCT DESIGN OBJECTIVE - PROGRAM NUMBER 5734-CB4 \*N  
The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GC28-6503  
IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT (CARD) BASIC ASSEMBLER AND BASIC UTILITY PROGRAMS SPECIFICATIONS AND OPERATING PROCEDURES - SYSTEMS REFERENCE LIBRARY PROGRAM NUMBERS: 360P-AS-021, 360P-UT-017, 360P-UT-018, 360P-UT-019, 360P-UT-020  
This reference publication is arranged in six major sections to describe these programs:
- | NAME                         | PROGRAM NUMBER |
|------------------------------|----------------|
| Basic Assembler              | 360P-AS-021    |
| Absolute Loader              | 360P-UT-017    |
| Input/Output Support Package | 360P-UT-018    |
| Dump Program                 | 360P-UT-019    |
| Relocating Loader            | 360P-UT-020    |
- The first section provides a description of the Basic Assembler language and the Basic Assembler program. Features concerned with the planning and writing of source programs are emphasized. The functions and possible modifications of each of the basic utility programs are described in the next major section. Also included is a discussion of program segment relocation and linkage. The input to and output from the Basic Assembler program and procedures for running assembly jobs are described in the third major section. The operating procedures for the utility programs are presented in the fourth major section. Program waits and operator messages appear in the fifth major section, followed by a sample problem in the last major section.  
The reader should be familiar with the material in the IBM System/360 Principles of Operation (GA22-6821). Some functions described in this manual require the use of an absolute address. Users of these programs can obtain the appropriate absolute address by referring to the writeup, supplied with the Program Material List, entitled "Attachment 1 - Special Information".
- GC28-6514  
IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER LANGUAGE PROGRAM NUMBERS 360S-AS-037, 360S-AS-036  
This publication contains specifications for the IBM System/360 Operating System Assembler Language (levels E and F).
- The assembler language is a symbolic programming language used to write programs for the IBM System/360. The language provides a convenient means for representing the machine instructions and related data necessary to program the IBM System/360. The IBM System/360 Operating System Assembler Program processes the language and provides auxiliary functions useful in the preparation and documentation of a program, and includes facilities for processing the assembler macro language.  
Part I of this publication describes the assembler language.  
Part II of this publication describes an extension of the assembler language -- the macro language -- used to define macro instructions.
- GC28-6515  
IBM SYSTEM/360 FORTRAN IV LANGUAGE SYSTEMS REFERENCE LIBRARY MANUAL, PROGRAM NUMBER 360N-LM-480  
This publication describes and illustrates the use of the Fortran IV language for the IBM System/360 Operating System, the IBM System/360 Disk Operating System.
- GC28-6516  
IBM SYSTEM/360 OPERATING SYSTEM COBOL LANGUAGE PROGRAM NUMBER (COBOL E) 360S-CO-503 (COBOL F) 360S-CF-524  
COBOL (Common Business Oriented Language) is a programming language, similar to English, that is used for commercial data processing. It was developed by the Conference of Data Systems Languages (CODASYL).  
This publication provides the programmer with rules for writing programs that are to be compiled by the COBOL E and COBOL F compilers under System/360 Operating System. Any violation of the rules for System/360 Operating System COBOL as defined in this publication is considered an error. The features implemented by the COBOL F compiler and not by COBOL E, and the IBM extensions to COBOL, are listed in an appendix.
- GC28-6529  
IBM SYSTEM/360 CONVERSION AIDS: THE 1620 SIMULATOR FOR IBM SYSTEM/360, PROGRAM NUMBER 360C-SI-752 SYSTEMS REFERENCE LIBRARY  
This document provides information on the IBM System/360 Simulator for the IBM 1620 Model 1 and Model 2, and is directed to the user who is replacing his IBM 1620 Model 1 or Model 2 Data Processing System with an IBM System/360 Model 30, 40, 50, 65, or 75. Simulation is a technique which uses System/360 instruction sequences to perform the functions of 1620 Model 1 or Model 2 instructions, thus permitting the user to execute object programs written for the 1620 Model 1 or Model 2.
- GC28-6530  
IBM SYSTEM/360 CONVERSION AIDS: THE 7070/7074 SIMULATOR FOR SYSTEM/360 - SYSTEMS REFERENCE LIBRARY PROGRAM NUMBER 360C-SI-753  
This document provides information on the IBM System/360 Simulator for the IBM 7070/7074, and is directed to the user who is replacing his IBM System/360 Model 40, 50, 65, or 75. Simulation is a technique which uses System/360 instruction sequences to perform the functions of 7070/7074 instructions, thus permitting the user to execute object programs written for the 7070/7074.
- GC28-6531  
IBM SYSTEM/360 SIMULATOR FOR THE IBM 7080 PRELIMINARY SPECIFICATIONS MANUAL  
This document provides information on the IBM System/360 Simulator for the IBM 7080, and is directed to the user who is replacing his IBM 7080 Data Processing System with any model IBM System/360 with at least 131,072 bytes of main storage. Simulation is a technique which uses System/360 instruction sequences to perform the functions of 7080 instructions, thus for the 7080.
- GC28-6532  
IBM SYSTEM/360 CONVERSION AIDS: THE 7090/7094 SIMULATOR FOR IBM SYSTEM/360 PROGRAM NUMBER 360C-SI-750 SYSTEMS REFERENCE LIBRARY  
This document provides information on the IBM System/360 Simulator for the IBM 7090/7094/7094I/7094II and is directed to the user who is replacing his IBM 700/7090/7094I/7094II Data Processing System with an IBM System/360 Model 40, 50, 65, or 75. Simulation is a technique which uses System/360 instruction sequences to perform the functions of 7090/7090I/7094I/7094II instructions, thus permitting the user to execute object programs written for the 7090/7090I/7094I/7094II.

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- GC28-6534  
IBM SYSTEM/360 OPERATING SYSTEM INTRODUCTION  
 This publication describes the general organization, function, and application of IBM System/360 Operating System.  
 The operating system is designed to extend the performance and application of Computing System/360 and to assist the manager, programmer, and operator of the system. The operating system consists of a comprehensive set of language translators and service programs operating under the supervisory control and coordination of an integrated set of control routines. It is designed for use with Models 30, 40, 50, 65, and 75 of Computing System/360.
- GC28-6538  
IBM SYSTEM/360 OPERATING SYSTEM LINKAGE EDITOR AND LOADER  
PROGRAM NUMBERS 360S-ED-510, 360S-ED-521, 360S-LD-547  
 The linkage editor and loader of the IBM System/360 Operating System are two programs that prepare the output of the language translators for execution.  
 The linkage editor combines and edits modules to produce a single load module that can be brought into main storage for execution by program fetch. The linkage editor provides several processing facilities that are performed either automatically or in response to control statements prepared by the programmer.  
 The loader combines the basic editing and loading functions of the linkage editor and program fetch in one job step. It is designed for high-performance loading of modules that do not require the special processing facilities of the linkage editor and fetch, such as overlay. The loader does not produce load modules for program libraries.
- GC28-6543  
IBM SYSTEM/360 OPERATING SYSTEM, SORT/MERGE  
PROGRAM NUMBER 360S-SM-023  
 This publication describes the use of the IBM System/360 Operating System Sort/Merge Program. It discusses:  
 Program capabilities.  
 Sorting and merging techniques.  
 Sort/merge program control statements.  
 Intermediate storage requirements.  
 Job control language requirements.  
 Program initiation.  
 Program modification.  
 Efficient program use.  
 Standard operating system collating sequence.  
 Sort/merge program messages.  
 The program has generalized sorting and merging capabilities that can be tailored to the needs of a particular installation and application.
- GC28-6550  
IBM SYSTEM/360 OPERATING SYSTEM DATA MANAGEMENT FOR SYSTEM PROGRAMMERS OPERATING SYSTEM/360 - SYSTEMS REFERENCE LIBRARY  
PROGRAM NUMBER 360S-CI-355  
 This publication describes the internal logic of the TSO Terminal Monitor Program (TMP) and the TSO service routines: STACK; GETLINE; PULLLINE; PUTGET; Command Scan; Parse; Dynamic Allocation Interface Routine (DAIR) and SVC 99; and the Default and Catalog Information routines.  
 The TMP accepts commands from the terminal and gives control to the TSO command processors named by the commands. The TSO service routines perform common functions needed by both the TMP and the command processors.  
 This publication is written for persons who maintain or modify TSO; it is not necessary for persons who use TSO to process programs or who write programs that are processed by TSO.  
 Prerequisite information is contained in:  
 o IBM System/360 Operating System: Time Sharing Option, Guide, GC28-6698  
 The reader should also be familiar with:  
 o IBM System/360 Operating System: Time Sharing Option: TSO Control Program, Program Logic Manual, GX27-7199
- GC28-6551  
IBM SYSTEM/360 OPERATING SYSTEM: STORAGE ESTIMATES  
 This publication is intended for three types of users: system planners, system programmers, and problem programmers. It contains instructions, formulas, and tables that can be used to estimate the main and auxiliary storage requirements for any machine configuration, control program, and control program option of the IBM System/360 Operating System. Main storage requirements are divided into two categories: Fixed main storage contains the resident portions of the control program and the optional services and load modules that can be made resident to improve the performance of the operating system. Dynamic main storage is the area where program processing is done.  
 Each type of user can use this publication differently.  
 - System planners can use this publication to
- plan the storage requirements of a new system: including the effects of options and different machine configurations on the total storage requirement.  
 - System programmers can use this publication to determine the amount of main and auxiliary storage that has to be allocated during system generation and to determine the amount of storage available to the problem programmer.  
 - Problem programmers can use the dynamic storage sections to estimate the requirements of their jobs.  
 Information concerning Model 195 support is for planning purposes only.
- GC28-6554  
OS SYSTEM GENERATION GENERATION - SYSTEMS REFERENCE LIBRARY  
 This publication provides the information needed to generate the Operating System adapted to the machine configuration and data processing requirements of an installation. It contains the information to prepare for a system generation, execute a system generation and test the new system.
- GC28-6559  
IBM SYSTEM/360 CONVERSION AIDS: COBOL LANGUAGE  
CONVERSION PROGRAM FOR THE IBM 1401.  
PROGRAM NUMBER 1401-CB-701  
 This publication contains information about the IBM COBOL Language Conversion Program (COBOL LCP). The COBOL LCP facilitates transition to IBM System/360 by converting current COBOL source programs into source programs for a System/360 COBOL compiler (Design Level E or Design Level F). This publication is intended to assist users of current COBOL in the use of the COBOL Language Conversion Program.
- GC28-6560  
IBM SYSTEM/360 TRANSITION AIDS: FORTRAN II LANGUAGE  
CONVERSION PROGRAM (1401-FO-702) FOR THE IBM 1401  
 This publication contains information about the IBM FORTRAN II Language Conversion Program (FORTRAN LCP). The FORTRAN LCP facilitates transition to IBM System/360 by detecting statements in FORTRAN II source programs that are incompatible with System/360 FORTRAN IV, by converting these statements to the proper System/360 format when possible, and by providing message codes for statements that cannot be converted. This publication is intended to assist users of current FORTRAN in the use of the FORTRAN Language Conversion Program.
- GC28-6561  
IBM SYSTEM/360 CONVERSION AIDS: THE 1401/1460 EMULATOR  
PROGRAM FOR IBM SYSTEM/360 MODEL 40.  
PROGRAM NUMBER 360C-EU-074  
SYSTEMS REFERENCE LIBRARY  
 This publication contains the information required to use the IBM 1401/1460 Emulator for IBM System/360 Model 40. The Emulator comprises the IBM 1401/1460 Emulator Program (360C-EU-074) and IBM 1401/1460 Compatibility Feature #4457. General information concerning machine requirements, data formats, and control cards is included, as are detailed explanations of operating procedures, user modification of the Emulator Program, and special instructions added by the Compatibility Feature.  
 The Emulator allows programs written for IBM 1401/1460 card/tape/disk systems to be executed on System/360 Model 40, with little or no reprogramming. Emulation provides substantial improvement over the speeds possible with simulation.
- GC28-6563  
IBM SYSTEM/360 CONVERSION AIDS: THE 1410/7010  
EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 40.  
PROGRAM NUMBER 360C-EU-728  
 This publication provides information for the user who is planning to supplement or replace his IBM 1410 or 7010 card/tape/disk system with an IBM System/360 Model 40. Emulation is a technique which utilizes both equipment capabilities (Compatibility Feature #4478) and programming (Emulator Program 360C-EU-728) to execute object programs of other data processing systems. The 1410/7010 Emulator allows the user to run 1410/7010 programs on the System/360 Model 40 with little or no reprogramming. This technique provides substantial improvement over the speeds achievable with simulators.  
 Included in this document are the characteristics, functions, requirements, limitations, and operating procedures of the Emulator.  
 This publication includes preliminary planning information concerning support of the IBM 1410/7010-1301 Disk Unit, Models 1 and 2, and the 2302 Disk Unit, Models 1 and 2, on the 2314 Direct Access Storage Facility.

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- GC28-6565  
IBM SYSTEM/360 CONVERSION AIDS: THE 709/7090/7094/7094 II EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 65. PROGRAM NUMBER 360C-EU-729 SYSTEMS REFERENCE LIBRARY  
This publication describes the characteristics and use of the IBM 7090 Emulator Program, a component of the IBM 7090 Emulator. The Emulator consists of this program, and special machine additions and modifications called the IBM 7090 Compatibility Feature (#7119). The combination of program and machine feature enables the user to execute, on his System/360 Model 65, programs written for the IBM 709, 7090, 7094, and 7094 II Data Processing Systems.
- GC28-6568  
IBM SYSTEM/360 CONVERSION AIDS: THE 1410/7010 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 50. PROGRAM NUMBER 360C-EU-726  
This publication provides information for the user who is planning to supplement or replace his IBM 1410 or 7010 card/tape/disk system with an IBM System/360, Model 50. Emulation is a technique that utilizes both machine adaptations and programming to execute object programs written for other data processing systems. The 1410/7010 Emulator (Compatibility Feature #4478 and Emulator Program No. 360C-EU-726) allows the user to run 1410/7010 programs on the System/360, Model 50, with little or no reprogramming. This technique provides substantial improvement over the speeds that can be achieved with simulators.  
Included in this document are the characteristics, functions, requirements, limitations, and operating procedures of the Emulator.  
This publication contains preliminary planning information concerning support of the 1410/7010-1301 Disk Storage Unit, Models 1 and 2, and the 2302 Disk Storage Unit, Models 1 and 2, on the IBM 2314 Direct Access Storage Facility, Model 1.
- GC28-6570  
IBM SYSTEM/360 TRANSITION AIDS COBOL LANGUAGE DIFFERENCES  
This publication summarizes the System/360 and Current Systems specifications for major IBM COBOL language elements requiring evaluation, and possible conversion, during the transition to IBM System/360 COBOL. System/360 COBOL differences from Current Systems COBOL are also summarized. Where pertinent, the distinction is made between Level E and Level F COBOL for System/360.
- GC28-6583  
IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT FORTRAN IV (TAPE) PROGRAMMER'S GUIDE PROGRAM NUMBER 360F-FO-031  
This publication is a guide to the programs comprising the Basic Programming Support Tape FORTRAN IV System. Included are descriptions of:  
Control Statements  
System Operating Considerations  
System Output  
Miscellaneous FORTRAN Programming Considerations  
Considerations for Coding Assembler Language Subprograms  
FORTRAN Library Subprograms  
Initial System Setup  
Sample Program
- GC28-6585  
IBM SYSTEM/360 CONVERSION AIDS: THE 7040/7044 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 65. PROGRAM NUMBER 360C-EU-733.  
This publication describes the characteristics and use of the IBM 7040 Emulator Program, a component of the IBM 7040 Emulator. The Emulator consists of this program, and special machine additions and modifications called the IBM 7040 Compatibility Feature (#7119). The combination of program and machine feature enables the user to execute, on his System/360 Model 65, programs written for the IBM 7040 and 7044 Data Processing Systems.
- GC28-6586  
IBM SYSTEM/360 OPERATING SYSTEM: UTILITIES SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBERS 360S-UT-506, 507, 5734-UT2  
This publication discusses the capabilities of the IBM System/360 Operating System utility programs and the control statements used with each program. These programs are used by programmers responsible for organizing and maintaining operating system data.  
Three types of utility programs are discussed: SYSTEM UTILITIES and DATA SET UTILITIES, which are used directly with the System/360 Operating System; and INDEPENDENT UTILITIES, which operate outside the operating system. System utilities deal with operating system control data. Data set utilities manipulate data sets at the record level and above. Independent utilities initialize, dump,  
and restore direct access volumes.  
Information concerning Model 195 support is for planning purposes only.
- GC28-6590  
IBM SYSTEM/360 OPERATING SYSTEM, PL/I SUBROUTINE LIBRARY, COMPUTATIONAL SUBROUTINES, PROGRAM NUMBER 360S-LM-512  
This publication gives details of the computational subroutines available in the PL/I Library. These subroutines are used by the PL/I (F) compiler in the implementation of PL/I built-in functions and of the operators used in the evaluation of PL/I expressions. Not all PL/I built-in functions and expression operators are supported by the PL/I Library; the compiler generates in-line code for a small number of them. The details provided include timing figures, summaries of the mathematical methods used, and (where appropriate) figures for range and accuracy. This information is intended to be of interest chiefly to those programmers concerned with the performance of computational subprograms.
- GC28-6594  
IBM SYSTEM/360 OPERATING SYSTEM PL/I (F) PROGRAMMER'S GUIDE  
This publication is a companion volume to IBM SYSTEM/360 OPERATING SYSTEM: PL/I (F) LANGUAGE REFERENCE MANUAL, Form GC28-8201. Together, the two books form a guide to the writing and execution of PL/I programs under the control of an IBM System/360 Operating System that includes the PL/I (F) Compiler. The Programmer's Guide is concerned with the relationship between a PL/I program and the operating system. It explains how to compile, link edit, and execute a PL/I program, and introduces job control language, the linkage editor, and other essential features of the operating system.
- GC28-6595  
IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER (E) PROGRAMMER'S GUIDE - PROGRAM NUMBER 360S-AS-036  
This publication is intended for the programmer who is writing programs in the assembler language for processing by the Assembler (E) under IBM System/360 Operating System. It contains information on assembling, linkage editing, and executing programs, program listings, error messages, and certain coding considerations. Previous experience of assembler language programming is a prerequisite for a full understanding of this publication.
- GC28-6596  
IBM SYSTEM/360 FORTRAN IV LIBRARY SUBPROGRAMS SYSTEMS REFERENCE LIBRARY MANUAL, PROGRAM NUMBERS 360F-LM-619, 360N-LM-400  
This publication describes the library subprograms supplied with Basic Fortran IV (E) and Fortran IV (G,H,DOS, and Model 44) and tells how to use the subprograms in either a Fortran or an assembler language program.
- GC28-6603  
IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (E) PROGRAMMER'S GUIDE PROGRAM NUMBER 360S-FO-092  
This publication describes how to compile, link, edit, and execute a Fortran IV (e) program. The text also describes the output of compilation and execution and how to make optimal use of the compiler and a load module.
- GC28-6615  
IBM SYSTEM/360 OPERATING SYSTEM, ALGOL LANGUAGE  
This publication provides the programmer with the information needed to use the IBM System/360 Operating System ALGOL compiler for the solution of scientific and technical problems. ALGOL has been introduced in a number of universities and technical institutes for communication and education purposes. To assist that particular area, the OS/360 ALGOL Compiler is intended to provide a bridge to System/360 for existing ALGOL users. A basic knowledge of the ALGOL language is assumed.
- GC28-6628  
IBM SYSTEM/360 OPERATING SYSTEM: SYSTEM CONTROL BLOCKS SYSTEMS REFERENCE LIBRARY MANUAL, PROGRAM NUMBER 360S-CI-566  
This publication shows the formats of the major control blocks and tables used by more than one component of the System/360 Operating System control program. Descriptions of each field within the control blocks or tables follow each format illustration.  
The system control blocks described in this publication will be changed by IBM from time to time to extend the capabilities of the operating system. Programs should refer to these control blocks only through the system macro instruction facilities provided in the operating system. (For example, a field of the Data Control Block should only be referred to by use of the DCBC macro instruction.) Programs that refer to the control blocks by other means do so at the risk of not executing correctly in the future.

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- GC28-6629  
IBM SYSTEM/360 BASIC FORTRAN IV LANGUAGE  
This publication describes and illustrates the use of the Basic Fortran IV language for the IBM System/360 operating, the IBM System/360 Disk Operating System, the IBM System/360 Tape Operating System, and the IBM System/360 Basic Programming Support Tape System.
- GC28-6631  
IBM SYSTEM/360 OPERATING SYSTEM: MESSAGES AND CODES SYSTEMS REFERENCE LIBRARY  
This publication lists, explains, and suggests appropriate responses to the system completion codes, wait state codes, and messages produced by IBM-supplied components of the IBM System/360 Operating System. The codes and messages are presented in alphanumeric order. Information concerning Model 195 support is for planning purposes only. Information concerning Model 195 support is for planning purposes only.
- GC28-6644  
IBM SYSTEM/360 OPERATING SYSTEM MASTER INDEX  
This publication consolidates the indexes of publications in the IBM Systems Reference Library for the System/360 Operating System. It also provides a reading plan for these publications.  
The master index lists topics alphabetically, and refers to publications where these topics are discussed.
- GC28-6646  
SYSTEM/360 OPERATING SYSTEM SUPERVISOR SERVICES SYSTEMS REFERENCE LIBRARY MANUAL  
The title of this manual was formerly IBM SYSTEM/360 OPERATING SYSTEM SUPERVISOR AND DATA MANAGEMENT SERVICES. The data management section of the book has been made a separate publication, IBM SYSTEM/360 OPERATING SYSTEM DATA MANAGEMENT SERVICES (GC26-3746).  
This manual describes how to use the services of the supervisor. Among the services of the supervisor are program management, task creation and management, main storage management, and checkpoint and restart.  
This book also describes the linkage conventions used by the operating system.  
Intended mainly for the assembler language programmer, this book is a guide to using the macro instructions described in IBM SYSTEM/360 OPERATING SYSTEM SUPERVISOR AND DATA MANAGEMENT MACRO INSTRUCTIONS (GC28-6647). This book does not discuss macro instructions used for graphics, teleprocessing, optical readers, optical reader-sorters, or magnetic character readers. These macro instructions are discussed in separate publications that are listed in the IBM SYSTEM/360 BIBLIOGRAPHY (GA22-6822).  
This book contains information about the time sharing option (TSO), which is not yet available. This information should be used only for planning purposes until the time sharing option becomes available.
- GC28-6647  
IBM SYSTEM/360 OPERATING SYSTEM SUPERVISOR AND DATA MANAGEMENT MACRO INSTRUCTIONS  
This publication shows application programmers how to code the supervisor and data management macro instructions available in the IBM System/360 Operating System assembler language. Included in this publication are descriptions of macro instructions for the three main configurations of the operating system: systems with the primary control program (PCP); systems that provide multiprogramming with a fixed number of tasks (MFT); and systems that provide multiprogramming with a variable number of tasks (MVT). Programmers should have a good understanding of the information contained in IBM SYSTEM/360 OPERATING SYSTEM: SUPERVISOR SERVICES (GC28-6646), and IBM SYSTEM/360 OPERATING SYSTEM: DATA MANAGEMENT SERVICES (GC26-3746) before using this publication.  
Descriptions of macro instructions applying to graphics, teleprocessing, magnetic character readers, optical reader-sorters, or optical readers are included in separate publications. These publications are indexed in IBM SYSTEM/360 BIBLIOGRAPHY (GA22-6822).  
This edition contains information about the time-sharing option (TSO), which is not yet available. The TSO information should be used only for planning purposes until the time-sharing option becomes available.
- GC28-6648  
IBM SYSTEM/360 OPERATING SYSTEM TESTRAN  
TESTRAN is a facility for testing program written in the assembler language for execution under the System/360 Operating System. It is intended for use by the individual programmer in testing his own programs.  
This publication explains how to use TESTRAN for typical testing purposes, how to write essential job control statements, and how to interpret printed test results. It formally describes TESTRAN statements, cataloged
- procedures supplied by IBM, and TESTRAN diagnostic messages.  
The information in this publication applies to systems that include the primary control program (PCP) and to systems that provide multiprogramming with a fixed number of tasks (MFT or Option 2) or multiprogramming with a variable number of tasks (MVT or Option 4).
- GC28-6650  
IBM SYSTEM/360 OPERATING SYSTEM ONLINE TEST EXECUTIVE PROGRAM - PROGRAM NUMBER 360S-DN-533 BACK LEVEL  
No abstract available.
- GC28-6662  
IBM SYSTEM/360 OPERATING SYSTEM, SORT/MERGE TIMING ESTIMATES, PROGRAM NUMBER 360S-SM-023  
This publication contains total execution times of the Operating System Sort/Merge program for over 30,000 sorting applications. These times are for sorting applications executed on the System/360 Models 30, 40, 50, 65, and 75 with various amounts of main storage assigned to the program. Typical input data set sizes and I/O configurations are shown.
- GC28-6670  
IBM SYSTEM/360 OPERATING SYSTEM: PROGRAMMER'S GUIDE TO DEBUGGING  
This publication describes the major debugging facilities provided with the System/360 Operating System for the assembler language programmer:  
Abnormal termination and snapshot dumps.  
Indicative dumps.  
Core image dumps.  
Stand-alone hexadecimal dumps.  
The text explains those aspects of system control pertinent to debugging, tells what information each debugging facility offers, and outlines procedures for invoking and interpreting dumps issued at the three operating system levels: PCP, MFT, and MVT.
- GC28-6676  
IBM SYSTEM/360 DISK OPERATING SYSTEM TAPE AND DISK SORT/MERGE PROGRAM PROGRAM NUMBER 360N-SM-483  
This publication describes how to use the IBM System/360 Disk Operating System Tape and Disk Sort/Merge Program. It contains the following specifications:  
- Minimum machine environment for sorting or merging records with this program.  
- Program capabilities.  
- Control statements required to define a specific sort or merge application.  
- Facilities provided for inserting user routines in the program.  
- Operating Instructions.  
- Conversion aids to help the user of other Sort/Merge programs change to Program Number 360N-SM-483.  
For a list of associated publications and their abstracts, see the IBM SYSTEM/360 BIBLIOGRAPHY, GA22-6822.
- GC28-6679  
IBM SYSTEM/360 DISK OPERATING SYSTEM TAPE AND DISK SORT/MERGE TIMING ESTIMATES PROGRAM NUMBER 360N-SM-483  
This publication is intended for those who require execution times for the DOS Tape and Disk Sort/Merge program. Times are shown for sorting applications executed on the System/360 Models 30, 40, and 50. The assumptions under which these times were calculated are described.
- GC28-6680  
IBM SYSTEM/360 OPERATING SYSTEM: TAPE LABELS  
This publication describes how the IBM System/360 Operating System processes magnetic tape volumes with IBM standard labels, American National Standard Labels, nonstandard labels, or no labels. Included for the guidance of programmers and operations analysts are discussions of:  
o Label formats and contents  
o Tape volume layouts  
o Label processing for input/output, multiple data set, and multiple volume conditions  
o Tape characteristics  
o Nonstandard label processing routines and volume label editor routines  
o Component considerations  
o Using tape volumes created by other systems  
o External labels
- GC28-6687  
USER'S GUIDE FOR THE IBM 2947-4 CHECK COLLECTION CONTROLLER SEQUENTIAL ACCESS METHOD PROGRAM SUPPORTING BQ 088264 PROGRAM NUMBERS 5792-WAF, 5793-WAG  
This publication defines and describes the data management

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macro instructions and services for the IBM 2947 Model 4 Check Collection Controller. The macro instructions are available in the IBM Operating System/360 and Disk Operating System/360.

SC28-6689

USER'S GUIDE FOR THE IBM 2947 MODEL 4 CHECK COLLECTION CONTROLLER ASSEMBLY FACILITIES, PROGRAMMING - RFPQ P88003 PROGRAM NUMBER 5799-AAH  
 The Assembly Facilities for the IBM 2947 Model 4 enable the user to prepare sort-control-word patterns for use in the IBM 2947 Model 4. He may use all the 2947-4 machine functions without having to convert his sort patterns into machine language. The Assembly Facilities generate actual 2947-4 code, in standard assembler format, for OS/360 or DOS/360.

Neither the 2947-4 machine operations nor examples of them will be explained in this publication. Examples of Assembly operations are given, but they are not meant to be an exhaustive list of the uses of all operands.

Effective use of this publication requires a thorough understanding of IBM 2947 Check Collection Controller, Functional Characteristics (GL22-6979).

The data management macro instructions and services for the IBM 2947-4 are called the Check Collection Controller Sequential Access Method (CSAM). The manual related to this area, for OS, is User's Guide for the IBM 2947-4 Check Collection Controller Sequential Access Method Program Supporting RPO 888264 (GC28-6687).

GC28-6691

IBM SYSTEM/360 OPERATING SYSTEM OPERATOR'S REFERENCE  
 This manual tells the computer how to use the IBM System/360 Operating System. It presents general operating procedures for using the various types of operator's console configurations. It describes specific operating techniques for each of the three major system types: systems with the primary control program (PCP); systems that provide multiprogramming with a fixed number of tasks (MPT); and systems that provide multiprogramming with a variable number of tasks (MVT). These operating techniques include:  
 How to start, stop, and restart the operating system.  
 How to control input and output.  
 How to control jobs.  
 How to understand messages.

This book also presents operating techniques that apply to all three major system types, as well as a discussion of the remote job entry (RJE) and conversational remote job entry (CRJE) facility. Many technical terms are defined.

Information concerning Model 195 support is for planning purposes only.

GC28-6692

IBM SYSTEM/360 OPERATING SYSTEM: OPERATOR'S PROCEDURES  
 This book is for the operator of an IBM System/360 Operating System and is to be used with the OPERATOR'S REFERENCE, GC28-6691. This book contains procedures for running the three major system types: Primary Control Program (PCP); Multiprogramming with a Fixed number of tasks (MPT); and multiprogramming with a variable number of tasks (MVT). It also contains operator procedures that apply to all three systems. Operator control panel procedures on tear out sheets are provided for the operator's console.

SC28-6695

IBM SYSTEM/360 DISK OPERATING SYSTEM: TAPE AND DISK SORT/MERGE PROGRAM, SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBER 5736-SM1

This publication describes how to use the IBM System/360 Disk Operating System Tape and Disk Sort/Merge Program. It contains the following specifications:

- Minimum machine environment for sorting or merging records with this program.
- Program capabilities.
- Control Statements required to define a specific sort or merge application.
- Facilities provided for inserting user routines in the program.
- Operating Instructions.

GC28-6698

IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION PLANNING FOR TSO

This publication describes the concepts, features, and capabilities of TSO, a general purpose time-sharing facility for the MVT configuration of the operating system. It is intended for use by the system manager, system analyst, and system programmer to help them design and implement

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a TSO system. The publication describes the functions provided to remote terminal users, the languages available to them, an overview of system implementation, system configuration requirements, and IBM Program Products available for TSO users. Readers interested in this manual should first read IBM SYSTEM/360 OPERATING SYSTEM: CONCEPTS AND FACILITIES, GC28-6535. Readers interested in the implementation of TSO should also read IBM SYSTEM/360 OPERATING SYSTEM: MVT CONTROL PROGRAM LOGIC SUMMARY, GI28-6658.

This publication is intended for planning purposes only. Further information will be published when TSO becomes available.

GC28-6704

IBM SYSTEM/360 OPERATING SYSTEM: JOB CONTROL LANGUAGE REFERENCE

The job control language is used with all System/360 Operating System control programs. Every job submitted for execution by the operating system must include job control language statements. These statements contain information required by the operating system to initiate and control the processing of jobs.

This publication describes the facilities provided with the job control language and contains the information necessary to code job control language statements.

This publication is intended for review and reference by programmers who are familiar with the information contained in IBM SYSTEM/360 OPERATING SYSTEM: JOB CONTROL LANGUAGE, USER'S GUIDE, GC28-6703, or who have experience in using the job control language.

GC28-6708

IBM SYSTEM/360 OPERATING SYSTEM: ADVANCED CHECKPOINT/RESTART PLANNING GUIDE

This publication describes the advanced checkpoint/restart facility, which allows automatic and deferred job restart at the beginning of a step or at a checkpoint within a step. Emphasis is on planning for the use of this facility with the PCP, MPT, and MVT control programs of the IBM System/360 Operating System. (All statements concerning MVT apply also to Model 65 Multiprocessing.)

It is intended for use by programmers and system analysts who are familiar with the information presented in:  
 OS Job Control Language Reference, GC28-6704  
 OS Data Management Service Guide, GC26-3746

GC28-6709

IBM 2969 PROGRAMMABLE TERMINAL INTERCHANGE MODEL 1 CONTROL PROGRAM OPERATOR'S GUIDE SUPPORTING RPO 888117

This manual is comprised of three self-contained parts: ONLINE UTILITIES - Defines the utilities that run under the APTIOS Control Program. These utilities allow the user to perform certain functions necessary for real-time operations. ONLINE TESTS - Defines the test modules that permit the user to check the teleprocessing network, the 2740 Console, and the 2969-1 Central Processing Element. OPERATOR MESSAGES - Explains the messages that may be directed to the operator. These messages include error messages, online test output messages, and online utility output messages.

GC28-6711

IBM 2969 PROGRAMMABLE TERMINAL INTERCHANGE MODEL 1 CONTROL PROGRAM USER'S GUIDE SUPPORTING RPO 888117

This manual is comprised of three self-contained parts: SYSTEM INTERFACE - Defines the relationship that exists between the 2969-1 and the main (host) CPU of the telecommunications system.

SYSTEM GENERATION AND INITIAL LOADING - Provides a step-by-step method for generator a control program from IBM supplied program modules and for initially loading this control program (called APTIOS) into the 2969-1. This part also discusses the use of the system generation macro instructions for modifying system parameters.

OFFLINE UTILITY PROGRAMS - Describes the IBM supplied utility programs that are used in system generation, system maintenance, and library maintenance of APTIOS. These programs run under control of OS/360 rather than APTIOS.

GC28-6712

IBM SYSTEM/360 OPERATING SYSTEM SYSTEM MANAGEMENT FACILITIES REFERENCE MANUAL - PROGRAM NUMBERS 360S-CI-505, 360S-CI-535

This publication provides installation managers, system programmers, and operators with the information required to plan for, install, and use SMP (System Management Facilities). SMP is an optional feature of this IBM System/360 Operating System that can be selected at system generation for the multiprogramming with fixed number of tasks (MFT) or multiprogramming with a variable number of tasks (MVT) option of the operating system. SMP collects system, job-management, and data-management information and links to user-written routines that can monitor the operation of jobs or job steps. This publication introduces

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basic SMF concepts; describes SMF record formats, control program exits, and data management requirements; tells how to plan, write, and test user-written exit routines; tells how to incorporate SMF into the operating system; and describes IPL and data management procedures.

only. Further information will be published when TSO becomes available.

GC28-6716

IBM SYSTEM/360 OPERATING SYSTEMS FEATURE GUIDE  
 This is a guide to optional features of the IBM System/360 Operating System (MVT, MFT and PCP). This publication stresses improving overall system performance; it endeavors to interrelate such factors as operating system programs, application programs, computer equipment, customer operating procedures, customer personnel, and maintenance.

This publication is intended for people who are responsible for improving system performance, such as data processing managers and system programmer/analysts. Knowledge of the IBM SYSTEM/360 OPERATING SYSTEM: INTRODUCTION, GC28-6534, and CONCEPTS AND FACILITIES, GC28-6535, is assumed.

For each optional feature, the reader is given the purpose of the feature, performance criteria, insights on using the feature, direction toward implementing the feature, and specific references to more detailed data in other IBM and, if applicable, non-IBM publications. The information contained in this publication concerning the Model 195 is for planning purposes only.

GC28-6733

IBM SYSTEM/360 OPERATING SYSTEM: RELEASE 19 GUIDE

This publication contains a summary of release 19 of the IBM System/360 Operating System. It describes:

New and changed system features and requirements.

System maintenance activity, including APAR descriptions, a program symptom index, and a list of program temporary fixes (PTFs) corrected.

Modules added, deleted, or modified for release 19.

Ordering and distribution procedures for release 19.

GC28-6747

IBM SYSTEM/360 OPERATING SYSTEM: RELIABILITY DATA EXTRACTOR USER'S GUIDE

This publication describes the Reliability Data Extractor (RDE) facility of the IBM System/360 Operating System. The publication is intended for the users with the RDE facility in their operating system. This publication describes how to use the RDE facility.

GC28-6719

IBM SYSTEM/360 OPERATING SYSTEM: SERVICE AIDS SYSTEMS REFERENCE LIBRARY

This publication describes the major facilities for inspecting, modifying, mapping, dumping and interpreting system libraries and mainstorage areas provided by the System/360 Service Aids to the system programmer and the IBM customer engineer.

Each of the seven Service Aids is described in a separate section of the text. The Service Aids are:

IMAPTFLE--which creates JCL for use in applying PTFs to system libraries

IMAPTFLS--which provides formatted lists of members of a library to which PTFs have been applied; or of all members of a library.

IMASP2AP--which allows the user to inspect and modify data in a load module

IMBMDMAP--which produces formatted maps of load modules previously link edited into a partitioned data set, of link pack or resident reenterable load module areas, and of the nucleus

IMCJOBMP--which provides formatted job queue dumps

IMPPRDMP--which formats and prints the high speed tape output

IMDSADMP--which can dump main storage to tape at high speed, and to either tape or a printer at low speed

GC28-6753

IBM SYSTEM/360 DISK OPERATING SYSTEM: TAPE AND DISK SORT/MERGE PROGRAM, PROGRAM NUMBER 5736-SM1

The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.

SC28-6755

IBM SYSTEM/360 DISK OPERATING SYSTEM: TAPE AND DISK SORT/MERGE PROGRAM, SYSTEM INFORMATION - PROGRAM NUMBER 5736-SM1

This publication contains the Disk Operating System information that relates to the tape and disk sort/merge program product. It describes:

- Storage, hardware, and program installation requirements
- Procedures to be followed for program installation
- Sample problems which provide a minimal test of the 5736-SM1 sort/merge program.
- Messages generated by the 5736-SM1 sort/merge program

GC28-6758

IBM SYSTEM/360 OPERATING SYSTEM DATA SET UTILITIES SUPPORT FOR ASCII - PROGRAM NUMBER 5734-UT2

This Program Product Design Objectives (PPDO) describes the design objectives and provides the estimated availability date of the subject Program Product.

GC28-6720

IBM SYSTEM/360 OPERATING SYSTEM MVT GUIDE

This publication describes the MVT (multiprogramming with a variable number of tasks) configuration of the operating system control program. It contains introductory material for programmers not familiar with MVT, planning information, storage estimates, information on optimizing performance, and a section on options and facilities available with MVT.

GC28-6759

IBM PROGRAM PRODUCT SPECIFICATIONS, IBM SYSTEM/360 OPERATING SYSTEM: DATA SET UTILITIES SUPPORT FOR ASCII PROGRAM PRODUCT NUMBER 5734-UT2

This PPS describes the data set utilities support for the American National Standard Code for Information Interchange (ASCII). This support consists basically of a load module and four utility programs designed to support data sets written in ASCII format.

GC28-6730

IBM SYSTEM/360 OPERATING SYSTEM: RELEASE 20 GUIDE SYSTEMS REFERENCE LIBRARY

This publication contains information about Release 20 of the IBM System/360 Operating System. It describes:

- o New and changed system features and requirements
- o System maintenance activity, including APAR descriptions, a program symptom index, and a list of program temporary fixes (PTFs) corrected.
- o Modules added, deleted, or modified for Release 20
- o Ordering and distribution procedures for Release 20

SC28-6760

IBM SYSTEM/360 OPERATING SYSTEM: DATA SET UTILITIES SUPPORT FOR ASCII - USER'S GUIDE, PROGRAM PRODUCT 5734-UT2

This publication describes the data set utilities that support the American National Standard Code for Information Interchange (ASCII).

It describes:

- The capabilities and limitations of the utility programs when used to process ASCII data sets.
- The control statements needed to process ASCII data sets.
- The possible applications of the utility programs.

GC28-6732

IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION: COMMAND LANGUAGE

This publication describes the TSO command language that a terminal user may use to request the services of TSO.

The "Introduction" describes what the command language is. The section entitled "What You Must Know to Use the Commands" contains general information necessary for the use of every command.

The section entitled "The Commands" contains a description of each command, its operands and its subcommands. Examples are included.

"Command Procedure Statements" describes the statements designed for use in command procedures. The "Glossary" contains definitions of terms contained in the text of the publication.

This publication is intended for planning purposes

GC28-6762

IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION TERMINALS

This publication describes how to use the terminals supported by the Time Sharing Option of the IBM System/360

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- Operating System. It is intended for all TSO terminal users. The operation and characteristics of the following terminals in a TSO environment are discussed:  
IBM 2741 Communication Terminal  
IBM 1052 Printer-Keyboard  
Teletype (Trademark of Teletype Corporation) Model 33  
Teletype (Trademark of Teletype Corporation) Model 35  
Each section is independent and a user need read only the section describing the terminal he is using.  
An appendix describes the LOGON, LOGOFF, PROFILE, and TERMINAL commands which a user issues to control his terminal session.  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION, COMMAND LANGUAGE REFERENCE, GC28-6732, is a corequisite publication.
- GC28-6763  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION TERMINAL USER'S GUIDE  
The Time Sharing Option (TSO) of the IBM System/360 Operating System permits the user to access the facilities of a computer from a terminal. The work is defined to the system through the TSO Command Language. This publication explains to all users of TSO how to use the TSO Command Language to perform the following functions:
- o Start and end a terminal session
  - o Enter and manipulate data
  - o Program at the terminal
  - o Test a program
  - o Write and use command procedures
  - o Control a system with TSO
- After becoming familiar with the information presented in this manual, the reader may use IBM System/360 Operating System: Time Sharing Option, Command Language Reference (GC28-6732) for review and reference.
- GC28-6764  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION GUIDE TO WRITING A TERMINAL MONITOR PROGRAM OR A COMMAND PROCESSOR  
This publication describes features of TSO that can be replaced, modified, or added to by each user of TSO to adapt it to his particular needs. The manual is intended for programmers whose responsibility it is to modify the portions of TSO that communicate directly with the user at the terminal.  
It discusses the Terminal Monitor Program and the Command Processors from the viewpoint of their replaceability, and it describes the programming features provided within TSC for user-written Terminal Monitor Programs, Command Processors, and application programs. These features include:
- o Service Routines
  - o Macro Instructions
  - o SVCs
  - o The Dynamic Allocation Interface Routine (DAIR)
  - o The TEST Command Processor
- SC28-6765  
IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) DATA UTILITIES: COPY, FORMAT, LIST, MERGE USER'S GUIDE AND REFERENCE MATERIAL - PROGRAM NUMBER 5734-UT1  
The TSO Data Utilities: COPY, LIST, FORMAT, MERGE is a program product designed to augment the text and data manipulation capabilities of the TSO Command Language. This publication describes the syntax and use of the TSO Data Utility commands: COPY, FORMAT, LIST, and MERGE. This publication is intended for use by terminal users whose installation includes this TSO program product. This manual has two sections:
- o "How to Use the Commands" describes the operations that can be performed by using the utility commands and subcommands at a terminal.
  - o "Command Descriptions" describes the syntax of the four utility commands: COPY, FORMAT, LIST, and MERGE, and the two subcommands of the EDIT command, FORMAT and MERGE. Examples of each command and subcommand are included.
- Prerequisites and corequisites for this publication are:  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION, COMMAND LANGUAGE REFERENCE (GC28-6732)  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION, TERMINAL USER'S GUIDE (GC28-6763)
- GC28-6767  
IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) DATA UTILITIES: COPY, FORMAT, LIST, MERGE SYSTEM INFORMATION PROGRAM PRODUCT - PROGRAM NUMBER 5734-UT1  
No abstract available.
- GC28-6768  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION DATA UTILITIES: COPY, FORMAT, LIST, MERGE - PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-UT1  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- SC28-6888  
A PL/I PRIMER  
The purpose of this publication is to provide tutorial material not only for the person with some knowledge of computer programming, but also for the novice who knows little or nothing about data processing.
- GC28-6810  
IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEMS CONCEPTS AND FACILITIES - SYSTEMS REFERENCE MANUAL  
This publication describes the facilities provided by the IBM System/360 Model 44 Programming System.  
The Model 44 Programming System consists of a FORTRAN compiler, an assembler, a supervisor, and system support programs. It provides FORTRAN and assembler language processing and program execution in a monitored environment, with automatic job-to-job transition, interruption handling, and input/output supervision. The system has facilities for the creation and maintenance of libraries and the manipulation of their contents. It also provides extensive job control and program segmentation capabilities for flexibility and versatility in the preparation of programs for execution.
- GC28-6811  
IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM ASSEMBLER LANGUAGE, PROGRAM NUMBER 360P-AS-616  
Model 44 Programming System Assembler Language. This assembler language is used to write programs for the Model 44. The IBM System/360 Model 44 Programming System Assembler Program processes the language and provides auxiliary functions useful in the preparation and documentation of a program.
- GC28-6812  
IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM GUIDE TO SYSTEM USE  
This publication contains detailed information for preparing programs to be executed under the IBM System/360 Model 44 Programming System. It discusses and illustrates the system's requirements, its capabilities, and the control statements and supervisor calls that are used with it.
- GC28-6813  
IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM GUIDE TO SYSTEM USE FOR FORTRAN PROGRAMMERS  
This publication describes how to use the Model 44 Programming System to compile and execute programs written in the IBM System/360 FORTRAN IV language. A discussion of program optimization and of the restrictions of the Model 44 FORTRAN IV compiler is also included.  
This publication is directed primarily at programmers who are familiar with the FORTRAN IV language. Previous knowledge of the Model 44 Programming System is not required.
- GC28-6814  
IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM SYSTEMS PROGRAMMER'S GUIDE  
This publication describes how to construct an IBM System/360 Model 44 Programming System and how to modify and extend its capabilities.  
Among the subjects discussed in this publication are:  
How to construct and edit a Model 44 Programming System.  
How to write an accounting routine and incorporate it into the system.  
How to define the input/output configuration at IPL time.  
How to write routines at the Execute Channel Program (EXCP) level of the input/output facilities.  
How to expand the user communication region.  
How to update the module and phase libraries.  
How to print, punch, and update the distributed tape reel.
- GC28-6815  
IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM OPERATOR'S GUIDE  
This publication provides operators with detailed information required for operating the IBM System/360 Model 44 Programming System and the various stand-alone programs associated with it.  
Operating instructions are provided for IPL procedures, general operations, abnormal end procedures, operator-to-system communications, and stand-alone operations.

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- GC28-6816  
IBM SYSTEM/360 CONVERSION AIDS: 1620 SIMULATOR FOR IBM SYSTEM/360 MODEL 44 PROGRAM NUMBER 360C-SI-755  
This reference publication provides information on the 1620 simulator for the IBM System/360 Model 44, and is directed to the user who is replacing his IBM 1620 Model 1 or Model 2 Data Processing System with an IBM System/360 Model 44. This manual describes the installation requirements, and programming and operating considerations for the 1620 simulator.  
Simulation is a technique that uses System/360 instruction sequence to perform the functions of 1620 instructions, thus permitting the user to execute object programs written for the 1620.
- GC28-6817  
IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (G AND H) PROGRAMMER'S GUIDE  
PROGRAM NUMBERS 360S-FO-500 360S-FO-520  
This publication explains how to compile, linkage edit, and execute a program written in IBM System/360 Fortran IV Language.
- GC28-6818  
IBM SYSTEM/360 FORTRAN IV LIBRARY: MATHEMATICAL AND SERVICE SUBPROGRAMS - SYSTEMS REFERENCE LIBRARY MANUAL  
PROGRAM NUMBER 360S-LM-591  
This publication describes the mathematical and service subprograms contained in the library supplied with Basic FORTRAN IV (OS) and FORTRAN IV (OS) compilers. Information on the use of these subprograms in either a FORTRAN or an assembler language program is also included.
- GC28-6819  
IBM SYSTEM/360 FORTRAN IV LANGUAGE HANDBOOK FOR CONVERSION FROM IBM 7090/7094 FORTRAN IV  
PROGRAM NUMBER 7090-PR-130  
This publication describes how a FORTRAN IV program written for execution under the IBM 7090/7094 IBSYS Operating System must be modified to be run under IBM System/360. Differences in both syntax and implementation are discussed. It is assumed that the reader is familiar with the IBM 7090/7094 FORTRAN IV language.
- GC28-6820  
IBM SYSTEM/360 OPERATING SYSTEM  
INTERACTIVE TERMINAL FACILITY - PL/I AND BASIC  
PROGRAM NUMBERS 5734-RC1, 5734-RC3 - DESIGN OBJECTIVES  
This Program Product Design Objectives (PPDO) describes the design objectives and provides the estimated availability date of the subject Program Product.
- GC28-6821  
IBM SYSTEM/360 DISK OPERATING SYSTEM  
INTERACTIVE TERMINAL FACILITY  
PL/I AND BASIC (PROGRAM PRODUCT DESIGN OBJECTIVES)  
PROGRAM NUMBERS 5736-RC1, 5736-RC2  
This Program Product Design Objectives (PPDO) describes the design objectives and provides the estimated availability date of the subject Program Product.
- GC28-6824  
IBM SYSTEM/360 OPERATING SYSTEM FORTRAN PROGRAM PRODUCTS FOR OS AND OS WITH TSO GENERAL INFORMATION  
PROGRAM NUMBERS: 5734-FO1, 5734-FO2, 5734-CP3, 5734-LM1  
This publication describes the FORTRAN program products developed to operate under the Time Sharing Option (TSO) of the IBM System/360 Operating System. Included are discussions of the Code and Go FORTRAN processor, the FORTRAN IV (G1) processor, the TSO FORTRAN Prompter, and the FORTRAN IV Library (Mod 1).  
This publication is intended as an aid to evaluation and planning and is not meant for the terminal user; terminal user publications will be provided when TSO becomes available.
- GC28-6825  
IBM SYSTEM/360 OPERATING SYSTEM  
IBM SYSTEM/360 DISK OPERATING SYSTEM  
INTERACTIVE TERMINAL FACILITY: PL/I GENERAL INFORMATION  
PROGRAM NUMBERS 5736-RC1, 5734-RC1  
This publication gives general information about the external characteristics of the PL/I feature of the Interactive Terminal Facility (ITF), a Program Product that operates under the System/360 Operating System or the System/360 Disk Operating System. The book includes descriptions of terminal commands, PL/I language elements, and machine requirements.  
This publication is intended as an aid to evaluation and planning; it is not meant for the terminal user. Publications will be provided for the terminal user when ITF:PL/I becomes available.
- GC28-6829  
IBM SYSTEM/360 OPERATING SYSTEM  
INTERACTIVE TERMINAL FACILITY: PL/I (5734-RC1) AND BASIC (5734-RC3) SPECIFICATION SHEET  
This Program Product Specifications (PPS) describes the warranted specifications of the subject Program Product.
- GC28-6830  
IBM SYSTEM/360 DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY: PL/I AND BASIC  
PROGRAM NUMBERS: 5736-RC1, 5736-RC2  
This Program Product Specifications (PPS) describes the warranted specifications of the subject Program Product.
- GC28-6831  
IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION)  
INTERACTIVE TERMINAL FACILITY: PL/I AND BASIC  
PROGRAM PRODUCT SPECIFICATIONS  
PROGRAM NUMBERS 5734-RC2, 5734-RC4  
These Program Product Specifications are for System/360 Operating System Time Sharing Option Interactive Terminal Facility: PL/I and BASIC.
- GC28-6832  
IBM SYSTEM/360 OPERATING SYSTEM CODE AND GO FORTRAN  
PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-FO1  
These Program Product Specifications are for IBM System/360 Operating System Code and Go FORTRAN.
- GC28-6833  
IBM SYSTEM/360 OS/DOS ITF: PL/I INTRODUCTION  
PROGRAM NUMBERS 5734-RC1, 5736-RC1  
This publication is an introduction to the IBM System/360 Operating System (OS) and the IBM System/360 Disk Operating System (DOS) Interactive Terminal Facility: PL/I. It is designed to give a novice programmer the tools he needs to write elementary programs in ITF: PL/I and to enable him to understand the more advanced material found in related publications. Because of this limited scope, therefore, this publication does not cover all the capabilities of ITF: PL/I nor does it include all the detailed information on system and terminal operation. These details may be found in the IBM SYSTEM/360 OPERATING SYSTEM AND IBM SYSTEM/360 DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY: PL/I TERMINAL USER'S GUIDE, form SC28-6834.
- GC28-6834  
IBM SYSTEM/360 OS/DOS ITF: PL/I TERMINAL USER'S GUIDE  
PROGRAM NUMBERS 5734-RC1, 5736-RC1  
This publication provides tutorial information and reference material for users of the PL/I language component of the Interactive Terminal Facility (ITF), a Program Product that operates under the System/360 Operating System (OS) or the System/360 Disk Operating System (DOS).  
The book tells how to use ITF and how to write programs in ITF: PL/I; it also includes detailed descriptions of the ITF: PL/I language elements, the ITF system commands, as well as error recognition and correction information. Sample programs and examples of the use of ITF: PL/I appear throughout the text.  
This publication is intended for the ITF: PL/I terminal user. Users with little or no programming experience should be thoroughly familiar with the concepts presented in the publication IBM SYSTEM/360 OS/DOS ITF: PL/I INTRODUCTION, SC28-6833.
- GC28-6835  
IBM SYSTEM/360 OS/DOS ITF: BASIC TERMINAL USER'S GUIDE  
PROGRAM NUMBERS 5736-RC2, 5734-RC3  
This publication provides tutorial information and reference material for users of the BASIC language component of the Interactive Terminal Facility (ITF), a Program Product that operates under the System/360 Operating System (OS) or the System/360 Disk Operating System (DOS).  
The book tells how to use ITF, and how to write programs in BASIC; it also includes detailed descriptions of the BASIC language elements, the ITF system commands, as well as error recognition and correction. Sample programs and examples of the use of ITF: BASIC appear throughout the text.  
This publication is intended for the ITF: BASIC terminal user. No previous knowledge of programming or of the BASIC language is required.
- GC28-6836  
IBM SYSTEM/360 OS/DOS ITF INSTALLATION REFERENCE MATERIAL  
PROGRAM NUMBERS 5734-RC1, 3; 5736-RC1, 2  
This publication describes the information required by the central computing installation to run the Interactive Terminal Facility (ITF). This includes machine requirements, and operator commands.

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ITF runs as a problem program under either the System/360 Operating System (OS) or the System/360 Disk Operating System (DOS). It supports conversational problem solving in the ITF:PL/I and/or ITF:BASIC languages.

GC28-6837

BASIC LANGUAGE REFERENCE MANUAL

This publication contains a complete description of the BASIC programming language as it is defined by IBM.

BASIC is a terminal-oriented language used by both programmers and non-programmers for the solution of problems requiring lengthy or repetitive computations.

The syntax and semantics of BASIC are presented in this publication for readers who are already acquainted with the fundamental techniques and terminology of programming. Topics covered include program structure, data representation, and statement descriptions. Sample BASIC programs and a formalized definition of the language are included in appendixes.

SC28-6838

IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION)  
INTERACTIVE TERMINAL FACILITY: PL/I INTRODUCTION  
PROGRAM NUMBER 5734-RC2  
No abstract available.

SC28-6839

IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION)  
INTERACTIVE TERMINAL FACILITY: PL/I TERMINAL USER'S GUIDE  
PROGRAM NUMBER 5734-RC2  
No abstract available.

SC28-6840

IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION)  
INTERACTIVE TERMINAL FACILITY: BASIC TERMINAL USER'S GUIDE  
PROGRAM NUMBER 5734-RC4

This publication provides tutorial information and reference material for users of the BASIC language component of the Interactive Terminal Facility (ITF), a Program Product that operates under the Time Sharing Option (TSO) of the System/360 Operating System (OS).

The book tells how to use ITF in the TSO environment, and how to write programs in BASIC; it also includes detailed descriptions of the BASIC language elements, a subset of the TSO command language, as well as error recognition and correction. Sample programs and examples of the use of ITF:BASIC appear throughout the text.

This publication is intended for the TSO ITF:BASIC terminal user. No previous knowledge of programming or of the BASIC language is required.

SC28-6841

IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION)  
INTERACTIVE TERMINAL FACILITY INSTALLATION REFERENCE MANUAL  
PROGRAM NUMBERS 5734-RC2, 5734-RC4

This publication describes the information required by the central computing installation to install and run the Interactive Terminal Facility (ITF). This includes installation procedures, storage estimates, ITF control user functions, and terminal messages.

ITF runs as a command processor under the Time Sharing Option (TSO) of System/360 Operating System (OS). It supports conversational problem solving in the ITF:PL/I and/or ITF:BASIC languages.

This publication is intended for the TSO ITF control user who installs TSO ITF, and who adds the ITF terminal users to the TSO system.

SC28-6842

IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION)  
CODE AND GO FORTRAN PROCESSOR-TERMINAL USER'S GUIDE  
PROGRAM NUMBERS 5734-F01, 5734-LM1

This publication provides the information necessary to use the Code and Go FORTRAN processor for foreground programs developed in an IBM System/360 Time Sharing Option (TSO) environment.

Code and Go is a compile-and-go processor that compiles at a fast rate and produces an object program directly in main storage. For the TSO foreground, Code and Go was specifically developed for users who place a premium on quick compilation and execution, and on easy and rapid debugging.

This publication, while primarily directed to engineers, mathematicians, and others who may not be full-time, professional programmers, also provides information for experienced production programmers who will be using Code and Go to write and test components of a large program for later execution in a batch environment. Readers must be familiar with the FORTRAN IV language as described in the publication IBM System/360 and System/370 FORTRAN IV Language, Order No. GC28-6515.

Included are explanations of that portions of that portion of the TSO command language that is directly

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relevant to the needs of the Code and Go foreground user, a sample terminal session, a section on programming considerations, and other reference information. Also provided are a discussion of the FORTRAN syntax checker and its associated messages, and a listing (with explanations) of compiler-related and load module execution diagnostic messages.

GC28-6844

IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY MOD I  
DESIGN OBJECTIVES - PROGRAM NUMBER 5734-LM1  
This Program Product Design Objectives (PPDO) describes the design objectives and provides the estimated availability date of the subject Program Product.

GC28-6846

IBM SYSTEM/360 OPERATING SYSTEM  
FORTRAN IV LIBRARY MOD I  
DESIGN OBJECTIVES - PROGRAM NUMBER 5734-F03  
This Program Product Design Objectives (PPDO) describes the design objectives and provides the estimated availability date of the subject Program Product.

GC28-6847

IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY (MOD II)  
PROGRAM NUMBER 5734-LM3  
This Program Product Design Objectives (PPDO) describes the design objectives and provides the estimated availability date of the subject Program Product.

GC28-6848

IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H EXTENDED)  
COMPILER AND FORTRAN IV LIBRARY (MOD II) GENERAL INFORMATION  
PROGRAM NUMBERS 5734-F03, 5734-LM3

This publication gives general information about the external characteristics of the FORTRAN IV (H Extended) compiler, a program product that operates under the System/360 Operating System. Included here are brief descriptions of the compiler's features, as well as information on operating system requirements and machine configuration. Information is also provided about the FORTRAN IV Library (Mod II), a program product that supports the FORTRAN IV (H Extended) compiler.

This publication is intended as an aid in evaluation and planning; it is not meant for the FORTRAN programmer. Publications for the FORTRAN programmer will be provided when the FORTRAN IV (H Extended) compiler and the Mod II Library become available.

SC28-6851

IBM SYSTEM/360 DISK OPERATING SYSTEM - FORTRAN IV LIBRARY  
ASCII SUPPORT: PROGRAMMER'S GUIDE SUPPLEMENT  
PROGRAM NUMBER 5736-LM1

This publication explains how to install and use the IBM System/360 Disk Operating System FORTRAN IV Library ASCII Support Package. ASCII is an acronym used to refer to the American National Standard Code for Information Exchange, a 7-bit character code. The internal code used by System/360 is based on an 8-bit character. With the DOS FORTRAN IV Library ASCII Support Package, DOS users may process and create magnetic tape data sets recorded in accordance with the ASCII code.

This publication assumes a knowledge of the FORTRAN IV language, and familiarity with how to compile, linkage edit, and execute programs under control of the IBM System/360 Disk Operating System.

SC28-6852

IBM SYSTEM/360 OPERATING SYSTEM: FORTRAN IV (H EXTENDED)  
COMPILER, PROGRAMMER'S GUIDE - PROGRAM NUMBER 5734-F03  
5734-LM3

No abstract available.

SC28-6853

IBM SYSTEM/360 OPERATING SYSTEM CODE AND GO FORTRAN IV (G1)  
PROGRAMMER'S GUIDE, PROGRAM NUMBERS 5734-F01, 5734-F02,  
5734-LM1

This publication is directed to programmers using either the IBM System/360 Code and Go FORTRAN or FORTRAN IV (G1) compiler. It explains how to use the IBM System/360 Operating System to compile, link edit, and execute programs written in the IBM System/360 FORTRAN IV language.

In addition, it contains information on processing efficiency, extended error handling, debugging specifications, and Assembler language subroutine linkage conventions.

This publication is directed primarily to programmers familiar with the FORTRAN IV language. Previous knowledge of the IBM System/360 Operating System is not required.

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- GC28-6854 IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (G1) PROCESSOR PROGRAM PRODUCT SPECIFICATIONS, PROGRAM NUMBER 5734-FO2  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- SC28-6855 IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) TERMINAL USER'S SUPPLEMENT FOR FORTRAN IV (G1) PROCESSOR AND TSO FORTRAN - PROGRAM PRODUCT MANUAL PROGRAM NUMBERS 5734-FO2, 5734-CP2, 5734-LM1  
 No abstract available.
- SC28-6856 IBM SYSTEM/360 OS FORTRAN IV (G1) PROCESSOR AND TSO FORTRAN PROMPTER INSTALLATION REFERENCE MATERIAL PROGRAM LOGIC MANUAL, PROGRAM NUMBER 5734-FO2  
 This publication describes the internal logic of the FORTRAN IV (G1) compiler.  
 The FORTRAN (G1) compiler, an extended version of FORTRAN IV (G), is adapted to a time sharing as well as a batch environment. It is a program product that operates under the IBM System/360 Operating System. It provides the ability to store object programs and to produce source and object listings, storage maps, and object decks. In addition, the FORTRAN IV (G1) compiler produces a terse form of output comprised of error messages and compiler statistics, suitable for terminal display.  
 This program logic manual is intended for use by persons involved in program maintenance. Program logic information is not necessary for the use and operation of the FORTRAN (G1); therefore, distribution of this publication is limited to licensees who have the aforementioned requirement.
- GC28-6857 IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION FORTRAN PROMPTER - PROGRAM PRODUCT SPECIFICATION  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- SC28-6858 IBM SYSTEM/360 FORTRAN IV LIBRARY (MODEL 1) INSTALLATION REFERENCE MATERIAL, PROGRAM NUMBER 5734-LM1  
 This publication describes the information required by the central computing installation to install and run the FORTRAN IV Library (Model 1). The information includes installation procedures, storage estimates, system information, and library-produced messages.  
 The FORTRAN IV Library (Model 1) operates with the FORTRAN E, G, and H compilers, with FORTRAN IV (G1), and with the Code and Go FORTRAN compiler. The library supports features not contained in the base FORTRAN IV library, such as list-directed I/O, improved data conversion, and ASCII support. The library also includes special interfaces for running in the TSO foreground.  
 This publication is intended for Operating System/360 personnel responsible for installing the library, as well as for the system programmer responsible for maintenance of the library within the system.
- SC28-6859 IBM SYSTEM/360 OPERATING SYSTEM CODE AND GO FORTRAN PROCESSOR INSTALLATION REFERENCE MATERIAL PROGRAM NUMBER 5734-FO1  
 This publication describes the information required by the central computing installation to install and run the FORTRAN IV Code and Go compiler. The information includes installation procedures, storage estimates, system information, and messages produced by the compiler.  
 This publication is intended for Operating System/360 personnel responsible for installing the FORTRAN IV Code and Go compiler, as well as for the system programmer responsible for maintaining it within the system.
- SC28-6861 IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H EXTENDED) COMPILER AND LIBRARY (MODEL 1), IBM MODULE II INSTALLATION REFERENCE MATERIAL - PROGRAM NUMBERS 5734-FO3, 5734-LM3  
 No abstract available.
- GC28-6862 IBM SYSTEM/360 OPERATING SYSTEM: FORTRAN IV (H EXTENDED) COMPILER PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-FO3  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GC28-6863 IBM SYSTEM/360: FORTRAN IV LIBRARY (MODEL 1), PROGRAM PRODUCT SPECIFICATIONS, PROGRAM NUMBER 5734-LM3  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- SC28-6864 IBM SYSTEM/360 OS: FORTRAN IV MATH AND SVC SUBPROGRAM SUPPLEMENT FOR MODE I and MODEL II LIBRARIES PROGRAM NUMBERS 5734-LM1, 5734-LM3  
 No abstract available.
- GC28-6865 IBM SYSTEM/360 OS: FORTRAN IV (H EXTENDED) COMPILER AND LIBRARY (MODEL 1), MESSAGES - SYSTEM REFERENCE LIBRARY MANUAL, PROGRAM NUMBERS 5734-FO3, 5734-LM3  
 No abstract available.
- SC28-6868 IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H EXTENDED) PLUS COMPILER & LIBRARY USER SUPPLEMENT - PROGRAM NUMBER 5799-AAW  
 No abstract available.
- GC28-6872 SYSTEM/360 DISK OPERATING SYSTEM FORTRAN IV LIBRARY, OPTION 1 - PROGRAM PRODUCT DESIGN OBJECTIVE PROGRAM NUMBER 5746-LM3  
 The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GC28-6881 FORTRAN INTERACTIVE DEBUG FOR OS (TSO) - PROGRAM PRODUCT DESIGN OBJECTIVE - PROGRAM NUMBER 5734-FO5 \*N  
 The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GC28-6882 DISK OPERATING SYSTEM FORTRAN IV LIBRARY OPTION 1 - PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5746-LM3 \*N  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- SC28-6883 DOS FORTRAN IV LIBRARY OPTION/PROGRAMMERS'S GUIDE SUPPLEMENT - PROGRAM PRODUCT 5746-LM3 \*N  
 This publication is directed to programmers using the FORTRAN IV Library Option 1, a program product used with the Disk Operating System. The Option 1 Library provides DOS users with System/370 input/output device support and ASCII support. (ASCII is an acronym used to refer to the American National Standard Code for Information Interchange.) ASCII support allows users to process and create magnetic tape data sets recorded in ASCII code and to specify larger block sizes for EBCDIC tape data sets.  
 This publication is a supplement to, and should be used in conjunction with, the publication, Disk Operating System: FORTRAN IV Programmer's Guide, Order No. GC28-6397. Programmers are assumed to be familiar with its contents. The supplement contains sections on using and installing the Option 1 library and on running the sample program. For information on how to compile, linkage edit, and execute a DOS FORTRAN IV program, the appropriate sections of the programmer's guide should be consulted.
- GC28-8193 IBM SYSTEM/360 DISK OPERATING SYSTEM FORTRAN IV LIBRARY ASCII SUPPORT PROGRAM NUMBER 5736-LM1  
 This Program Product Design Objectives (PPDO) describes the design objectives and provides the estimated availability date of the subject Program Product.
- GC28-8194 IBM SYSTEM/360 DISK OPERATING SYSTEM FORTRAN IV LIBRARY ASCII SUPPORT PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-LM1  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GC28-8201 IBM SYSTEM/360 OPERATING SYSTEM PL/I (F) LANGUAGE REFERENCE MANUAL  
 This publication consolidates documents outlining the status and use of the independent release of PL/I (F) Version 5. New features are noted, and information is provided on the system generation requirements and techniques. A list of all modules added, deleted or altered for this release is included. System Prose informs the user of the current maintenance status of PL/I (F).  
 IBM provides an operating system that can be used for system generation. The procedures required to initialize the starter system are also described in this publication.

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- GC28-8202  
TNL TO IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS  
PL/I SUBSET REFERENCE MANUAL  
 This publication provides the rules for writing PL/I Subset programs that are to be compiled using the PL/I 0-level compiler under the IBM System/360 Disk and Tape Operating Systems. It is a reference to those features of the PL/I language implemented by the Fourth Version of the D-level compiler.  
 This publication is divided into two parts. Part I contains discussions of the concept of the language. Part II contains detailed rules and syntactic descriptions.  
 For information necessary to compile, link-edit, and execute a program, the reader should be familiar with the publication DOS and TOS PL/I (D) Compiler, Programmer's Guide, Order No. GC24-9005.  
 For a list of further related publications, refer to IBM System/360 Bibliography, Order No. GA22-6822.
- GC30-1004  
IBM SYSTEM/360 OPERATING SYSTEM  
IBM SYSTEM/360 DISK OPERATING SYSTEM  
BASIC TELECOMMUNICATIONS ACCESS METHOD  
PLANNING FOR IBM 2790 DATA COMMUNICATION SYSTEM SUPPORT  
 This publication is a planning aid only. It is intended for use PRIOR to the availability of BTAM support for the IBM 2790 Data Communications System and shall be replaced by reference documentation when that support becomes available. The 2790 system is a two way in-house data communications and production reporting system.  
 Included are descriptions of the 2790 system and of the programming support provided by BTAM for the system.
- GC30-1005  
IBM SYSTEM/360 OPERATING SYSTEM AND DISK OPERATING SYSTEM:  
PLANNING FOR IMPROVED BTAM SUPPORT OF REMOTE BSC STATIONS  
PROGRAM NUMBER 360S-CO-513  
 This publication is a planning guide describing improved versions of BTAM that will be available with the System/360 Operating System and Disk Operating System. These improved versions of BTAM will provide for enhanced reliability and compatibility of operations involving BSC stations.  
 This publication explains the expanded BTAM functions, identifies the changes to remote station equipment and programming needed to permit use of these functions, and provides information needed to effect orderly conversion of an existing BTAM and improved BTAM are covered; for full information, see IBM SYSTEM/360 OPERATING SYSTEM: Basic Telecommunications Access Method, (GC20-2004) or IBM SYSTEM/360 DISK OPERATING SYSTEM: BASIC Telecommunications Access Method, (GC30-5001)
- GC30-2003  
IBM SYSTEMS REFERENCE LIBRARY MANUAL - IBM SYSTEM/360  
OPERATING SYSTEM QUEUED TELECOMMUNICATIONS ACCESS METHOD  
MESSAGE PROCESSING PROGRAM SERVICES  
PROGRAM NUMBER 360S-CO-519  
 This publication provides information on how to use the Queued Telecommunications Access Method (QTAM) within Option 2 (Multiprogramming with a Fixed Number of Tasks) or Option 4 (Multiprogramming with a Variable Number of Tasks) of the System/360 Operating System to support a telecommunications application. Services provided by QTAM in support of a message processing program are described in detail, including the facilities provided to establish the interface to a QTAM message control program.  
 For detailed information on the QTAM facilities provided for the construction of a message control program, refer to the publication, IBM System/360 Operating System: QTAM Message Control Program (GC30-2005).
- GC30-2004  
IBM SYSTEM/360 OPERATING SYSTEM BASIC TELECOMMUNICATIONS  
ACCESS METHOD PROGRAM NUMBER 360S-CO-513  
 This publication describes the Basic Telecommunications Access Method (BTAM) available with the System/360 Operating System. BTAM provides facilities that enable an assembler-language programmer to write a teleprocessing control program that effects communications at the Read/Write level between a System/360 and a variety of computers and terminals connected to the System/360 over common-carrier or private-wire communications networks. BTAM employs both start-stop and binary synchronous (BSC) communications techniques, depending on the type of remote station.  
 Typical BTAM applications include data acquisition, message switching, and inquiry processing.  
 The publication explains some concepts of teleprocessing and BTAM, describes line control and message transmission techniques, and describes each of the BTAM macro instructions and facilities needed to construct a control program. The READ and WRITE macro instructions applicable for each type of remote station and line configuration are given, along with the channel programs generated for each type.  
 Prerequisite to use of this publication is a knowledge of System/360 assembly language and data management facilities.
- GC30-2005  
IBM SYSTEMS REFERENCE LIBRARY  
IBM SYSTEM/360 OPERATING SYSTEM QUEUED TELECOMMUNICATIONS  
ACCESS METHOD MESSAGE CONTROL PROGRAM  
PROGRAM NUMBER 360S-CO-519  
 This publication contains specifications on the use of the Queued Telecommunications Access Method (QTAM) and the IBM System/360 Operating System to support telecommunications applications. Information in this publication will facilitate the construction of a QTAM message control program by the problem programmer. Complete descriptions of QTAM macro instructions are included.  
 For detailed information on the services provided by QTAM to support a message processing program, refer to IBM System/360 Operating System: QTAM Message Processing Program Services, (GC30-2003).
- GC30-2006  
IBM SYSTEM/360 OPERATING SYSTEM REMOTE JOB ENTRY  
PROGRAM NUMBER 360S-RC-536  
 This publication is designed to present the general concepts and facilities of Remote Job Entry (RJE). RJE allows users at remote locations to submit jobs over communications lines to an IBM System/360. It is available to users with either multiprogramming version of the IBM System/360 Operating System: multiprogramming with a variable number of tasks (MVT) or multiprogramming with a fixed number of tasks, version 2 (MFT).  
 Information on the capabilities and uses of RJE, on the operating environments, and on work station states and activities is included for the systems programmer and operator. The Job Entry Control Language is introduced and explained. The Job Entry Definition Statement, work station commands, messages sent to work stations, and central commands are discussed in terms of their functions, and how the user employs them in programs.  
 A discussion of RJE generation includes the necessary macro instructions. Communication Serviceability Facilities, such as error recovery procedures, and system restart procedures, are discussed separately as well as with the work stations.  
 A discussion of programming information for the 2780 Data Transmission Terminal and for the 1130 Computing System is included.
- GC30-2009  
IBM SYSTEM/360 OPERATING SYSTEM BASIC TELECOMMUNICATIONS  
ACCESS METHOD PLANNING FOR USE OF THE IBM 2741 UNDER BTAM  
PROGRAM NUMBER 360S-CO-513  
 This publication is for planning purposes only. It may be used by applications programmers in preparing for support for the IBM 2741 Communications Terminal by the Basic Telecommunications Access Method (BTAM) under the Operating System. The terminal and the control discipline used in terminal-to-computer communication are described, as are the BTAM functions used for the 2741 (with emphasis on Read and Write operations), and how to design a problem program.  
 The information in this publication supplements that in the publication SYSTEM/360 OPERATING SYSTEM, BASIC Telecommunications Access Method, (GC30-2004), with which the reader is expected to be familiar.
- GC30-2012  
IBM SYSTEM/360 CONVERSATIONAL REMOTE JOB ENTRY AND  
FACILITIES - SYSTEMS REFERENCE LIBRARY  
PROGRAM NUMBER 360S-RC-551  
 This publication contains detailed information about Conversational Remote Job Entry (CRJE). It describes the system concepts, facilities and points out the responsibilities of those who are involved in the overall operation of CRJE.  
 An appendix of related publications and a glossary of terminology is included.
- GC30-2014  
IBM SYSTEM/360 OPERATING SYSTEM:  
CONVERSATIONAL REMOTE JOB ENTRY (CRJE) TERMINAL USER'S GUIDE  
SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBER 360S-RC-551  
 The Conversational Remote Job Entry (CRJE) Terminal User's Guide serves primarily as a guide for the inexperienced CRJE user and as a reference for the experienced CRJE user.  
 The Guide describes the functions of CRJE and the terminal commands that enable the user to perform these functions. The commands and subcommands are described in detail, and examples illustrate how they may be used. Terminal messages are documented with explanations and corresponding system and user responses.

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- GC30-2015  
IBM SYSTEM/360 OPERATING SYSTEM REMOTE JOB ENTRY - PLANNING FOR IBM 2770 RJE SUPPORT  
PROGRAM NUMBER 360S-CQ-548  
This publication is a planning aid only. It is intended for use prior to the availability of Remote Job Entry (RJE) support for the IBM 2770 Data Communications System with 2772 Multipurpose Control Unit and will be replaced by reference documentation when that support becomes available. It describes the control unit, the input/output devices supported, and the RJE functions that will be available. Information herein applies only to the 2772 Multipurpose Control Unit of the 2770 System; full information on RJE is contained in the publication IBM SYSTEM/360 OPERATING SYSTEM Remote Job Entry order number GC30-2006.
- GC30-2016  
IBM SYSTEM/360 CONVERSATIONAL REMOTE JOB ENTRY: SYSTEMS PROGRAMMER'S GUIDE  
This publication contains information to aid the system programmer and the operator at the central installation in the installation, operation, and use of Conversational Remote Job Entry (CRJE).  
This publication describes CRJE and the facilities it provides users at remote keyboard terminals attached by communication lines to an IBM System/360 that uses the Operating System to provide multiprogramming with a variable or fixed number of tasks.  
Information about the CRJE task, its operating environment, system generation considerations, and the central operator command facility is included. Central messages are described with explanations and suggested operator responses.  
This publication also includes a discussion of CRJE storage estimates and offers some performance guidelines to aid the system programmer in using his CRJE system.
- GC30-2020  
IBM SYSTEM/360 OPERATING SYSTEM: PLANNING FOR THE TELECOMMUNICATIONS ACCESS METHOD (TCAM)  
Managers, systems analysts, and programmers can use this publication to plan a telecommunications system that will operate under the IBM System/360 Operating System and the Telecommunications Access Method (TCAM), when the program becomes available.  
TCAM is a complete, centralized, real-time telecommunications system driver that controls allocation and use of all resources. TCAM facilities control the transfer, editing, and processing of data from remote terminals. Variety, flexibility, and modularity of facilities permit selection of the necessary support for any telecommunications application.  
This publication is a planning aid only. It is intended for use prior to the availability of TCAM and shall be replaced by reference documentation when the program becomes available.  
Prerequisite to a thorough understanding of this publication is a knowledge of IBM System/360 machine concepts and of the IBM System/360 Operating System. For titles and abstracts of appropriate publications, see IBM System/360 bibliography order number GA22-6822.
- GC30-2022  
IBM SYSTEM/360 OPERATING SYSTEM TELECOMMUNICATIONS ACCESS METHOD CONCEPTS AND FACILITIES.  
PROGRAM NUMBER 360S-CQ-548  
This publication provides a basic introduction to the concepts of (and the facilities provided by) the IBM System/360 Operating System Telecommunications Access Method (TCAM). It also briefly describes the characteristics and operating concepts of a computer-based telecommunications system.  
TCAM is a complete, centralized, real-time telecommunications access method that controls allocation and user of all system resources. TCAM facilities control the transfer, editing, and processing of data from remote stations. Variety, flexibility, and modularity of these TCAM facilities permit selection of the necessary support for any telecommunications application.  
A basic knowledge of System/360 machine concepts and data management techniques is required for understanding this publication.
- GC30-2024  
OS TCAM PROGRAMMER'S GUIDE AND REFERENCE MANUAL  
PROGRAM NUMBER 360S-CQ-548  
This book is a reference manual and coding guide for the programmer who must construct or modify a TCAM Message Control Program (MCP), or who must write a TCAM-compatible application program. It explains how to write a TCAM MCP, how to write a TCAM compatible application program, and how to use a variety of auxiliary service facilities. Also included is information that might be of use in planning and setting up a teleprocessing system incorporating TCAM, and information for designing message-handling facilities for the user who incorporates the IBM System/360 Operating System Time Sharing Option (TSO) into his system. The reader is expected to be familiar with the contents of the publication Concepts and Facilities, Order Number GC30-2022.
- GC30-2025  
OS TELECOMMUNICATIONS USER'S GUIDE  
PROGRAM NUMBER 360S-CQ-548  
The TCAM User's Guide is for systems analysts and programmers who must design, write, and install a TCAM program. It is both a guide for diagnosis and a problem determination handbook. Information provided includes:  
o An overview of TCAM  
o Functional checklists for coding and diagnosing sections of a TCAM program  
o Coding considerations  
o Checklists of possible errors  
o How and when to dump TCAM and its service aids  
o How to read TCAM dumps  
o Relationships between OS and TCAM control blocks  
o A summary of TCAM macros and operands  
o A detailed description of each field in a TCAM formatted dump  
Prerequisites:  
IBM System/360 Operating System Telecommunication Access Method (TCAM) Concepts and Facilities, GC30-2022 OS TCAM Programmer's Guide and Reference Manual, GC30-2024.
- GC30-2026  
IBM SYSTEM/360 OPERATING SYSTEM CONVERSION GUIDE FROM QUEUED TELECOMMUNICATIONS ACCESS METHOD OR BASIC TELECOMMUNICATIONS ACCESS METHOD TO TELECOMMUNICATIONS ACCESS METHOD SYSTEM REFERENCE LIBRARY  
PROGRAM NUMBER 360S-CQ-548  
This publication provides a summary of the information needed to convert a QTAM or BTAM system to TCAM. It briefly describes the similarities and differences between QTAM and TCAM, and between BTAM and TCAM.  
The first section describes QTAM macros, macro operands, service facilities, internals, and their TCAM replacements. A working knowledge of QTAM is required for understanding this part of the publication.  
The second section describes BTAM macros, macro operands, additional facilities, and their TCAM equivalents. Concepts of TCAM as they relate to BTAM are provided as reprogramming aids. A working knowledge of BTAM is required for understanding this part of the publication.  
Both sections are meant to be used in conjunction with the IBM SYSTEM/360 OPERATING SYSTEM TELECOMMUNICATIONS ACCESS METHOD (TCAM) PROGRAMMER'S GUIDE AND REFERENCE MANUAL (GC30-2024).
- GC30-2028  
PLANNING FOR TCAM WITH THE IBM 3705 COMMUNICATIONS CONTROLLER  
PROGRAM NUMBER 360S-CQ-548  
This publication is a planning guide for managers and system programmers who wish to add the IBM 3705 Communications Controller to an existing TCAM system, or to install a TCAM system using the 3705 as a control unit.
- GC30-3000 \*N  
IBM 3705 COMMUNICATIONS CONTROLLER NETWORK PROGRAM GENERATION AND UTILITIES GUIDE AND REFERENCE MANUAL  
Provides the information necessary to (1) define and generate a network control program for the IBM 3705 Communications Controller, (2) load the program into the controller, and (3) dump the contents of controller storage.  
The network control program controls the transmission of data between the central processing unit to which the communications controller is attached, and the remote stations of a teleprocessing network. The program also performs limited message processing, such as inserting date and time information in message blocks.  
This publication is directed to the systems analyst or systems programmer responsible for defining and generating a network control program and loading it into the communications controller. Note: This publication is a preliminary edition, and is to be used for planning purposes only. Any portion of the content is subject to change.  
The publication is organized as follows:  
Chapter 1 - introduces the network control program and summarizes the content of the book.  
Chapter 2 - assists the programmer in defining a network control program.  
Chapter 3 - gives detailed descriptions of the macro instructions with which the programmer defines the network control program.  
Chapter 4 - describes the program generation procedure.  
Chapters 5 and 6 - explain how to use the Loader and Dump utility programs, respectively.  
The appendixes list the teleprocessing devices with which the communications controller can communicate using the network control program, and list the messages produced by the program generation procedure and utility programs.  
Before using this publication the reader should be

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familiar with the contents of Introduction to the IBM 3705 Communications Controller, GA27-3051.

GC30-3002

**IBM 3705 COMMUNICATIONS CONTROLLER EMULATION GENERATION AND UTILITIES GUIDE REFERENCE MANUAL - PROGRAM NUMBERS 360H-TX-035, 360H-TX-036** \*N

The purpose of this publication is to provide the information necessary to generate the IBM 3705 Emulation Program using emulation generation macro instructions. The book is intended for analysts and programmers responsible for generation and maintenance of Emulation Programs and for IBM systems engineers and field engineers.

The Emulation Program allows the 3705 Communications Controller to operate as an IBM 2701, 2702, or 2703 Transmission Control Unit, or any combination of the three. This publication describes the Emulation Program generation procedure, the loader utility, and the Dump utility. Error messages for each program are also provided. The prerequisite publication for this manual is Introduction to the IBM 3705 Communications Controller, GA27-3051.

GC30-3004

**IBM 3705 COMMUNICATIONS CONTROLLER PRINCIPLES OF OPERATION - SYSTEM LIBRARY MANUAL** \*N

This publication is the machine reference manual for the IBM 3705 Communications Controller. It provides a direct, comprehensive description of (1) the controller functional components, (2) the arithmetic, logical, branching, status switching, and input/output operations, and (3) the priority interrupt scheme. It is intended to provide any 3705 user with a knowledge of the controller hardware requirements needed to write or modify a 3705 control program. The reader is assumed to have a basic knowledge of data processing and teleprocessing systems and to have read the Introduction to the IBM 3705 Communications Controller, GA27-3051, which describes the system briefly and describes the features available.

GC30-5001

**IBM SYSTEM/360 DISK OPERATING SYSTEM BASIC TELECOMMUNICATIONS ACCESS METHOD PROGRAM NUMBER 360N-CO-469**

This publication describes the Basic Telecommunications Access Method (BTAM) used with the System/360 Disk Operating System (DOS) control program. BTAM provides READ/WRITE level macro instructions for the assembler-language programmer who is implementing programs for telecommunications applications.

Included are macro instruction formats and descriptions and specific information on device-dependent considerations.

GC30-5003

**IBM SYSTEM/360 DISK OPERATING SYSTEM QTAM MESSAGE PROCESSING SERVICES - SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBER 360N-CO-470**

This publication provides information on use of the Queued Telecommunications Access Method (QTAM) and the System/360 Disk Operating System for a telecommunications application. Services provided by QTAM in support of a message processing program are described in detail, including the facilities provided to establish the interface to a QTAM message control program and to examine and modify the telecommunications system.

The QTAM facilities provided for the construction of a message control program are presented in IBMs publication GC30-5004, System/360 DOS QTAM Message Control Program.

For titles and abstracts of other associated publications, see the IBM System/360 Bibliography (GA22-6822).

GC30-5004

**IBM SYSTEM/360 DISK OPERATING SYSTEM QTAM MESSAGE CONTROL PROGRAM PROGRAM NUMBER 360N-CO-470**

This reference publication contains specifications for the use of the Queued Telecommunications Access Method (QTAM) and of the IBM System/360 Disk Operating System in a telecommunications application. Complete description of QTAM macro instructions are included along with information to aid the program programmer in constructing a QTAM message control program.

For detailed information on the services provided by QTAM to support a message processing program, refer to the publication IBM SYSTEM/360 DISK OPERATING SYSTEM, QTAM MESSAGE PROCESSING PROGRAM SERVICES Form C30-5003.

For titles and abstracts of other associated publications, see IBM SYSTEM/360 BIBLIOGRAPHY (GA22-6822).

GC33-0001

**OS PL/I OPTIMIZING COMPILER: GENERAL INFORMATION MANUAL PROGRAM NUMBER 5734-PL1**

This manual introduces and describes the compiler and the associated resident and transient libraries. The

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information is provided for use as a planning aid only, and is intended to assist both existing and prospective users of PL/I. Topics covered in the manual include:

- o Design philosophy and performance of the compiler
- o Optimization facilities provided
- o Comparison with the PL/I (F) Compiler
- o Machine and system requirements of the compiler
- o Summary of the PL/I language implemented
- o Bibliography of related publications

The reader is assumed to be familiar with PL/I and with the Operating System.

GC33-0003

**OS PL/I CHECKOUT COMPILER: GENERAL INFORMATION PROGRAM NUMBERS 5734-PL2, 5734-LM4**

This manual introduces and describes the compiler and the associated resident and transient libraries. The information is provided for use as a planning aid only, and is intended to assist both existing and prospective users of PL/I. Topics covered in the manual include:

- o Design philosophy and performance of the compiler
- o Compiler options provided
- o Summary of the PL/I language implemented
- o Comparison with the PL/I (F) Compiler
- o Machine and system requirements of the compiler
- o Discussion of the complementary use of the PL/I Checkout and PL/I Optimizing Compilers
- o Bibliography of related publications

The reader is assumed to be familiar with PL/I and with the Operating System.

GC33-0004

**DOS PL/I OPTIMIZING COMPILER: GENERAL INFORMATION MANUAL PROGRAM NUMBER 5736-PL1**

This manual introduces and describes the compiler and the associated resident and transient libraries. The information is provided for use as a planning aid only, and is intended to assist both existing and prospective users of PL/I. Topics covered in the manual include:

- o Design philosophy and performance of the compiler
- o Optimization facilities provided
- o Comparison with the PL/I D Compiler
- o Machine and system requirements of the compiler
- o Summary of the PL/I language implemented
- o Bibliography of related publications

The reader is assumed to be familiar with PL/I and with the Disk Operating System.

SC33-0005

**DOS PL/I OPTIMIZING COMPILER: LANGUAGE REFERENCE MANUAL PROGRAM NUMBER 5736-PL1**

This publication is the primary source of information on the language implemented by the DOS PL/I Optimizing Compiler. It is a reference manual rather than a tutorial text, and the reader is assumed to have some previous knowledge of PL/I.

The manual contains information on how to write a PL/I source program. For information on how to compile, link-edit, and execute the program, reference should be made to DOS PL/I Optimizing Compiler: Programmer's Guide (SC33-0008).

SC33-0006

**OS PL/I OPTIMIZING COMPILER - PROGRAMMER'S GUIDE PROGRAM NUMBERS 5734-PL1, 5734-LM4, 5734-LM5**

This manual is a companion volume to OS PL/I Optimizing and Checkout Compilers: Language Reference Manual (SC33-0009) and OS/360 Time Sharing Option: PL/I Optimizing Compiler (SC33-0029). The three manuals form a guide to the writing and execution of PL/I programs using the optimizing compiler and the associated resident and transient libraries in the batch and time-sharing environments of the IBM Operating System.

The programmer's guide is concerned with the relationship between a PL/I program, the optimizing compiler, and the operating system. It explains how to compile, link-edit, and execute a program in a batch environment, and it introduces job control language, the linkage editor, and the loader, data management, and other operating system features that may be required by a PL/I programmer.

SC33-0007

**SYSTEM/360 OPERATING SYSTEM PL/I CHECKOUT COMPILER PROGRAMMER'S GUIDE - PROGRAM NUMBERS 5734-PL2, 5734-LM5**

This manual is a companion volume to OS PL/I Optimizing and Checkout Compilers: Language Reference Manual, Order No. SC33-0009, and the OS Time Sharing Option: PL/I Checkout Compiler, Order No. SC33-0033. The three manuals form a guide to the writing and execution of PL/I programs using the checkout compiler and the transient library in the batch and time-sharing environments of the IBM Operating System.

The programmer's guide is concerned with the relationship between a PL/I program, the checkout compiler,

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- and the operating system. It explains how to use the checkout compiler to run a PL/I program in a batch environment, and introduces job control language, the linkage editor, the loader, data management, and other operating system features that may be required by a PL/I programmer.
- SC33-0008  
DISK OPERATING SYSTEM PL/I OPTIMIZING COMPILER: PROGRAMMER'S GUIDE - PROGRAM NUMBER 5736-PL1  
This manual is a companion volume to the DOS PL/I Optimizing Compiler: Language Reference Manual (Order Number SC33-0005). The two manuals form a guide to the writing and execution of PL/I programs using the optimizing compiler and the associated resident and transient libraries under the IBM System/360 Disk Operating System.  
The programmer's guide is concerned with the relationships between a PL/I program, the optimizing compiler, and the operating system. It explains how to compile, link-edit, and execute a PL/I program, and it introduces job control language, the linkage editor, data management, and other operating system features that may be required by a PL/I programmer.
- SC33-0009  
OS PL/I OPTIMIZING AND CHECKOUT COMPILER LANGUAGE REFERENCE MANUAL PROGRAM NUMBERS 5734-PL1, 5734-PL2, 5734-PL3  
This publication is the primary source of information on the language implemented by the OS PL/I Optimizing and Checkout Compilers. It is a reference manual rather than a tutorial text, and the reader is assumed to have some previous knowledge of PL/I.  
The manual contains information on how to write a PL/I source program. For information on how to compile, link-edit, and execute the program, reference should be made to the appropriate programmer's guide.
- GC33-0010  
IBM SYSTEM/360 DISK OPERATING SYSTEM DESIGN OBJECTIVES PL/I OPTIMIZING COMPILER - PROGRAM NUMBER 5736-PL1  
The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GC33-0013  
IBM SYSTEM/360 OPERATING SYSTEM PL/I OPTIMIZING COMPILER DESIGN OBJECTIVES - PROGRAM NUMBER 5734-PL1  
This Program Product Design Objectives (PPDO) describes the design objectives and provides the estimated availability date of the subject Program Product.
- GC33-0016  
DOS PL/I OPTIMIZING COMPILER PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-PL1  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GC33-0017  
DOS PL/I RESIDENT LIBRARY PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-LM4  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GC33-0018  
DOS PL/I TRANSIENT LIBRARY PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-LM5  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- SC33-0019  
DISK OPERATING SYSTEM/360 PL/I OPTIMIZING COMPILER: EXECUTION LOGIC PROGRAM NUMBERS 5736-PL1, 5736-LM4, 5736-LM5  
This publication describes the object module produced by the DOS PL/I Optimizing Compiler, and explains how the compiled code uses subroutines from the resident and transient libraries of the optimizing compiler.  
The topics covered include program initialization, storage management, input/output, error handling, and interlanguage communication. The use of storage dumps for debugging is also explained.  
The manual is intended primarily for programmers concerned with maintenance of the compiler and its libraries. It will also be useful for applications programmers who require an understanding of the processes of execution (for example, to link PL/I and Assembler-language routines).
- SC33-0020  
DOS PL/I OPTIMIZING COMPILER: SYSTEM INFORMATION MANUAL PROGRAM NUMBERS 5736-PL1, 5736-LM4, AND 5736-LM5  
This publication is intended primarily for programmers responsible for installing the DOS PL/I optimizing compiler and the associated transient and resident libraries. It is divided into two independent sections which give detailed information on storage estimates, installation, and maintenance procedures.
- SC33-0021  
SYSTEM/360 DISK OPERATING SYSTEM PL/I OPTIMIZING COMPILER: MESSAGES MANUAL PROGRAM NUMBERS 5736-LM5, 5736-PL1  
This publication lists all the messages that may be issued by the DOS PL/I Optimizing Compiler and the associated transient library during processing of a PL/I program. The messages are in two groups:  
o Compile-time messages (generated by the compiler during compilation of a PL/I source program)  
o Execution-time messages (generated by the transient library during execution of the compiled program)  
Where appropriate, explanations of the messages and suggested programmer responses are included.
- GC33-0022  
SYSTEM/360 OS PL/I OPTIMIZING COMPILER PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-PL1  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GC33-0023  
OS PL/I RESIDENT LIBRARY - PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-LM4  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GC33-0024  
OS PL/I TRANSIENT LIBRARY - PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-LM5  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- SC33-0025  
SYSTEM/360 OPERATING SYSTEM PL/I OPTIMIZING COMPILER: EXECUTION LOGIC MANUAL - PROGRAM NUMBER 5734-PL1  
This publication describes the object module produced by the OS PL/I Optimizing Compiler, and explains how the compiled code uses subroutines from the resident and transient libraries of the optimizing compiler.  
The topics covered include program initialization, storage management, input/output, error handling, and interlanguage communication. The use of storage dumps for debugging is also explained.  
The manual is intended primarily for programmers concerned with maintenance of the compiler and its libraries. It will also be useful for applications programmers who require an understanding of the processes of execution (for example, to link PL/I and Assembler-language routines).
- SC33-0026  
SYSTEM/360 OPERATING SYSTEM PL/I OPTIMIZING COMPILER: SYSTEM INFORMATION - PROGRAM NUMBERS 5734-PL1, 5734-LM4, 5734-LM5  
This publication is intended primarily for programmers responsible for installing the OS PL/I optimizing compiler and the associated transient and resident libraries. It is divided into two independent sections which give detailed information on Storage Estimates and Installation Procedures.
- \*N SC33-0027  
OPERATING SYSTEM PL/I OPTIMIZING COMPILER: MESSAGES SYSTEM REFERENCE LIBRARY MANUAL PROGRAM NUMBERS 5734-PL1, 5734-LM5  
This publication lists all the messages that may be issued by the OS PL/I Optimizing Compiler and the associated transient library during processing of a PL/I program. Both the long and short forms of each message are listed where applicable. The messages are in three groups:  
o Compile-time messages (generated by the compiler during compilation of a PL/I source program)  
o Execution-time messages (generated by the transient library during execution of the compiled program)  
o Prompter messages (generated by the compiler when it is used in a time-sharing environment)  
Where appropriate, explanations of the messages and suggested programmer responses are included.

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- SC33-0029 \*N  
SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION  
PL/I OPTIMIZING COMPILER - SYSTEMS REFERENCE LIBRARY MANUAL  
PROGRAM NUMBERS 5734-PL1, 5734-LM4, 5734-LM5  
 This manual is a companion volume to OS PL/I Optimizing and  
 Checkout Compilers: Language Reference Manual (SC33-0009)  
 and OS PL/I Optimizing Compiler: Programmer's Guide (SC33-  
 0006). The three manuals form a guide to the writing and  
 execution of PL/I programs using the optimizing compiler and  
 the associated resident and transient libraries in the batch  
 and time-sharing environments of the operating system. This  
 manual is written in two parts:  
 o User's Guide: An explanation of how to use the  
 compiler in a time-sharing (TSO) environment,  
 and a description of the conversational I/O  
 feature of the compiler.  
 o Command Language: A description of the PL/I  
 command and its operands.  
 The manual is designed so that it can be used independently,  
 or its two parts included in the TSO publications Terminal  
 User's Guide (GC28-6763) and Command Language Reference  
 (GC28-6732), respectively.
- translation, and interpretation (in conjunction with the  
 PL/I Transient Library), and those that can be produced by  
 the PL/I Prompter when invoking the compiler in a TSO  
 environment.  
 As users of the PL/I checkout compiler, readers should  
 have an understanding of the information in the PL/I  
 Optimizing and Checkout Compilers Language Reference Manual  
 (SC33-0009), and the PL/I Checkout Compiler Programmer's  
 Guide, (SC33-0007), and also, for TSO users, the manual TSO:  
 PL/I Checkout Compiler (SC33-0033).
- GC33-2000  
IBM SYSTEM/360 CONVERSION AIDS: ALGOL-TO-PL/I  
LANGUAGE CONVERSION PROGRAM FOR IBM SYSTEM/360  
OPERATING SYSTEM, PROGRAM NUMBER 360C-CV-711  
 This document provides information on the ALGOL-to-PL/I  
 Language Conversion Program for IBM System/360.  
 The System/360 ALGOL-to-PL/I Language Conversion Program  
 (LCP) assists in the transition to PL/I by converting  
 System/360 Operating System ALGOL programs into PL/I  
 programs. The LCP itself is written in System/360 Operating  
 System PL/I language. It is distributed in object module  
 form for inclusion in the user's system library.
- GC33-0030  
OS PL/I CHECKOUT COMPILER - PROGRAM PRODUCT SPECIFICATIONS  
PROGRAM NUMBER 5734-PL2  
 The Program Product Specifications (PPS) describe the  
 warranted specifications of the subject Program Product.
- GC33-2003  
IBM SYSTEM/360 CONVERSION AIDS: THE 1410/7010 SIMULATOR  
FOR IBM SYSTEM/360, PROGRAM NUMBER 360C-SI-754  
SYSTEMS REFERENCE LIBRARY  
 This document provides information on the 1410/7010  
 Simulator for the IBM System/360, and is directed to the  
 user who is replacing his IBM 1410/7010 Data Processing  
 System with an IBM System/360 Model 40, 50, 65, or 75.  
 Simulation is a technique which uses System/360 instruction  
 sequences to perform the functions of 1410/7010  
 instructions, thus permitting the user to execute object  
 programs written for the 1410/7010.
- SC33-0031  
SYSTEM/360 OPERATING SYSTEM PL/I OPTIMIZING COMPILER  
SYSTEM INFORMATION SYSTEMS REFERENCE LIBRARY MANUAL  
PROGRAM NUMBERS 5734-PL2, 5734-LM5  
 This publication is intended primarily for programmers  
 responsible for installing the OS PL/I checkout compiler and  
 the associated transient library. It is divided into two  
 independent sections which give detailed information on  
 Storage Estimates and Installation Procedures.
- GC33-2004  
EMULATING THE IBM 1401, 1440 AND 1460  
ON THE IBM SYSTEM/370 MODELS 145 AND 155  
USING DISK OPERATING SYSTEM/360  
 This publication provides planning information on the IBM  
 1401/1440/1460 Emulator Program for the IBM System/370  
 Models 145 and 155. The Emulator Program is executed as a  
 problem program under control of the IBM System/360 Disk  
 Operating System on either an IBM System/370 Model 145  
 equipped with IBM Compatibility Feature #4457, or an IBM  
 System/370 Model 155 equipped with IBM Compatibility Feature  
 #3950. Using the program and the compatibility feature,  
 the Models 145 and 155 can execute programs written for  
 the IBM 1401, 1440, and 1460 Data Processing Systems.  
 The information in this publication is intended for  
 installation personnel responsible for selecting,  
 evaluating, and implementing IBM System/370 Models 145  
 and 155 configurations.  
 Note: All references in the text of this publication to  
 the Model 155 are equally applicable to the Model 145,  
 except where the two models are specifically differentiated.
- SC33-0032  
SYSTEM/360 OPERATING SYSTEM PL/I CHECKOUT COMPILER  
EXECUTION LOGIC MANUAL - PROGRAM NUMBERS 5734-PL2  
5734-LM5  
 The PL/I Checkout Compiler operates in two distinct stages:  
 translation and interpretation. During translation, the  
 original PL/I source program is converted into an  
 intermediate code. During interpretation, this code is  
 interpreted to achieve the effect of object-time execution.  
 This manual describes those aspects of interpretation  
 which are common to all PL/I programs processed in this way.  
 The topics covered include program initialization;  
 input/output; storage management; error handling;  
 conversational processing; the use of storage dumps for  
 debugging; and interlanguage communication.  
 The manual is intended primarily for programmers  
 responsible for the maintenance of the compiler and its  
 library. It will also be useful for application programmers  
 who require an understanding of the process of execution.
- GC33-2005  
EMULATING THE IBM 1410 AND 7010  
ON THE IBM SYSTEM/370 MODELS 145 AND 155  
USING DOS/360  
 This publication provides planning information for the  
 IBM 1410/7010 Emulator Program for the IBM System/370  
 Models 145 and 155. The emulator program is executed as a  
 problem program under control of the IBM System/360 Disk  
 Operating System on either an IBM System/370 Model 145  
 equipped with IBM Capability Feature #4458, or an IBM  
 System/370 Model 155 equipped with IBM Compatibility  
 Feature #3950. Using the program and the compatibility  
 feature, the Models 145 and 155 can execute programs written  
 for the IBM 1410 and 7010 Data Processing Systems.  
 The information in this publication is intended for  
 installation personnel responsible for selecting,  
 evaluating, and implementing system configuration.  
 Note: All references in the text of this publication to  
 the Model 155 are equally applicable to the Model 145,  
 except where the two models are specifically differentiated.
- SC33-0033  
SYSTEM/360 OPERATING SYSTEM  
TIME SHARING OPTION: PL/I CHECKOUT COMPILER MANUAL  
PROGRAM NUMBERS 5734-PL2, 5734-LM5  
 This manual is a companion volume to OS PL/I Optimizing and  
 Checkout Compilers: Language Reference Manual (SC33-0009)  
 and OS PL/I Checkout Compiler: Programmer's Guide (SC33-  
 0007). The three manuals form a guide to the writing and  
 execution of PL/I programs using the checkout compiler and  
 the associated transient library in the batch and time-  
 sharing environments of the operating system. This manual  
 comprises two parts:  
 o User's Guide: An explanation of how to use  
 the compiler in a time-sharing (TSO)  
 environment, and a description of the  
 conversational I/O and conversational checkout  
 features of the compiler.  
 o Command Language: A description of the PLIC  
 command and its operands and subcommands.  
 The manual is designed so that it can be used independently  
 or its two parts included in the TSO publications Terminal  
 User's Guide (GC28-6763) and Command Language Reference  
 (GC28-6732), respectively.
- GC33-4000  
IBM SYSTEM/360 OPERATING SYSTEM ALGOL PROGRAMMER'S GUIDE  
PROGRAM NUMBERS 360S-AL-531, 360S-LM-532  
 This publication describes how to compile, linkage edit  
 and execute a program written in the System/360 Operating  
 System Algorithmic Language (ALGOL). It includes an  
 introduction to the operating system and a description  
 of the information listings that can be produced, the job  
 control language, and the subroutine library. The intended  
 audience for this publication are Applications Programmers,  
 System Programmers, and IBM System Engineers. The second  
 edition includes new information about the loader and  
 changes to the job control language.
- SC33-0034  
SYSTEM/360 OPERATING SYSTEM PL/I CHECKOUT COMPILER:  
MESSAGES MANUAL - PROGRAM NUMBERS 5734-PL2, 5734-LM5  
 This manual is an essential source of reference for users of  
 the PL/I checkout compiler in either the batch or TSO  
 environment. It describes the components of the messages  
 that can be produced by the compiler when processing a PL/I  
 program. Then it lists each message and provides additional  
 information in many cases.  
 The messages are divided into two groups -- those that  
 can be produced by the compiler during preprocessing,

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- SC33-4004  
IBM SYSTEM/360 OPERATING SYSTEM - SORT/MERGE  
SYSTEM INFORMATION - PROGRAM NUMBER 5734-SM1  
SYSTEM GENERATION/INSTALLATION  
STORAGE REQUIREMENTS  
MESSAGES  
 This publication describes how to generate the sort/merge program 5734-SM1, what its storage requirements are, and the messages issued by it. The system information for the sort/merge program is presented in three self-contained modules: System Generation/Installation, Storage Requirements, and Messages. The reader may also need IBM System/360 Operating System Sort/Merge Programmer's Guide (SC33-4007) and IBM System/360 Operating System: Utilities (GC20-6550) for reference or review.
- GC33-4006  
IBM SYSTEM/360 OPERATING SYSTEM, SORT/MERGE  
PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-SM1  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- SC33-4007  
IBM SYSTEM/360 OPERATING SYSTEM, SORT/MERGE  
PROGRAMMER'S GUIDE - PROGRAM NUMBER 5734-SM1  
 This manual describes how to use the IBM System/360 Operating System Sort/Merge Program (Program Number 5734-SM1). It is intended for programmers who wish to sort (arrange in a given order) or merge records (create one sorted sequence of records from two or more sorted sequences).  
 The major topics covered in this manual are: sort/merge program control statements and job control language (JCL) statements required by the program; linking user exit routines to the sort/merge program; and achieving maximum program efficiency.  
 To use this manual you should already have a basic understanding of the operating system and its job control language. You should have the following manuals available for reference or review:  
 IBM SYSTEM/360 OPERATING SYSTEM:  
 CONCEPTS AND FACILITIES, Order Number GC20-6535  
 JOB CONTROL LANGUAGE USER'S GUIDE,  
 Order Number GC20-6703
- GC33-4008  
IBM SYSTEM/360 OPERATING SYSTEM SORT/MERGE TIMING ESTIMATES,  
PROGRAM NUMBER 5734-SM1  
 This publication contains total execution times of the sort/merge program (5734-SM1) for over 56,000 sorting applications. Times are for sorts executed on the IBM System/360 Models 30, 40, 50, 65, and 75 and on the IBM System/370 Model 155 with various amounts of main storage assigned to the program. Typical input data set sizes, record lengths, and I/O configurations are shown.
- GC33-4014  
IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER (E)  
INSTALLATION GUIDE PROGRAM NUMBER 360S-AS-036  
 This publication contains information needed for incorporating the Assembler (E) contained in the Assembler (E) Independent Component Release Package into the Operating System. It describes the distribution tape and gives detailed instructions for including the component into the system. The publication is intended for system support personnel with a good knowledge of the IBM System/360 Operating System.
- GC33-4015  
IBM SYSTEM/370 MODEL 155 SORT/MERGE TIMING ESTIMATES  
PLANNING GUIDE  
PROGRAM NUMBER 360S-SM-023  
 This publication gives estimated execution times of the sort/merge program (360S-SM-023) on the IBM System/370 Model 155 Central Processing Unit. Times are shown for sorting applications using various main-storage sizes and record lengths. The assumptions made in calculating the timing estimates are described.
- GC33-4017  
IBM SYSTEM/360 DOS SORT MERGE DESIGN OBJECTIVES  
PROGRAM NUMBER 5734-SM1  
 The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- SC33-4018  
DOS SORT/MERGE PROGRAMMER'S GUIDE - PROGRAM NUMBER 5743-SM1  
 This manual enables a programmer to prepare input to perform a sort or merge using program product 5743-XM1, and to link to the program his own assembler-language routines to perform such tasks as summarizing, altering, inserting or deleting records. Specifically, it describes:  
 o Program Organization  
 o Environmental requirements  
 o Label processing  
 o Control statements  
 o Program Modification  
 o Linking to user routines  
 o Efficiency considerations  
 o Storage requirements  
 o Program initiation  
 o Compatibility/conversion aids  
 It also lists messages produced by the program, and describes the appropriate responses.  
 The user should have a good understanding of the Disk Operating System and its job control language.
- GC33-4020  
IBM SYSTEM/360 DISK OPERATING SYSTEM SORT/MERGE  
GENERAL INFORMATION, PROGRAM NUMBER 5743-SM1  
 This publication provides general information about the IBM System/360 Disk Operating System Sort/Merge Program Product. It describes:  
 o Program Organization  
 o Control Statement Formats  
 o User Exit Facilities  
 o Label Handling Requirements  
 o Program Performance Characteristics
- GC33-4022  
SYSTEM/360 OPERATING SYSTEM SORT/MERGE GENERAL INFORMATION  
MANUAL - PROGRAM NUMBER 5734-SM1  
 This publication provides an introduction to the IBM OS Sort/Merge Program Product (Program # 5734-SM1). It is intended as a source of general information for people involved in planning, managing, system support, or programming at an installation.  
 This publication gives a general description of the sort/merge program -- how it is installed, the functions it provides, and the control statements used to request these functions -- as well as its relationship to OS, and the machine environment. This manual also includes compatibility and conversion considerations and timing estimates.
- SC33-4023  
DOS SORT/MERGE INSTALLATION REFERENCE MANUAL  
PROGRAM NUMBER 5743-SM1  
 This manual provides the information necessary to install and test program number 5743-SM1:  
 a) Hardware requirements  
 b) Installation procedures, including a list of the relocatable modules and an explanation of the use of the calling books  
 c) Sample problems: how to use them, and what they do.  
 The user should have a good understanding of the Disk Operating System and of DOS and TOS assembler language.
- GC33-5000  
IBM SYSTEM/360 DISK OPERATING SYSTEM ASCII MAGNETIC TAPE  
UTILITIES  
PROGRAM NUMBER 5736-UT2  
 This Program Product Design Objectives (PPDO) describes the design objectives and provides the estimated availability date of the subject Program Product.
- SC33-5001  
IBM SYSTEM/360 DOS ASCII MAGNETIC TAPE UTILITIES  
PROGRAM GUIDE - PROGRAM NUMBER 5736-UT2  
 These ASCII Magnetic Tape Utility programs provide the DOS user with a set of utility programs for data files coded in ASCII (the American National Standard Code for Information Interchange). The functions provided by these programs include comparing tape files on one or more reels, and file-to-file transfer between magnetic tape, DASD, printer, and card devices. Translation between ASCII and EBCDIC is automatically performed by the system where necessary.  
 This programming guide is intended for use by programming personnel responsible for utility applications. It explains how to prepare the utility modifier and field select statements and the control information necessary to run these utilities. Job control examples, program messages, operator messages, and the ASCII/EBCDIC conversion tables are included. The programs discussed are the card-to-tape, data cull-to-tape, disk-to-tape, tape-to-card, tape-to-data cell, tape-to-disk, tape-to-printer, tape-to-tape, and tape compare utility programs.
- GC33-5002  
SYSTEM/360 DOS ASCII MAGNETIC TAPE UTILITIES PROGRAM  
PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-UT2  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.

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- GC33-5004  
SYSTEM/360 DOS PLANNING GUIDE FOR PROGRAMMING THE 3330 DIRECT ACCESS STORAGE FACILITY  
This publication is a planning guide for programmers, programming managers, and systems analysts who are intending to use an IBM System/370 configuration with the IBM 3330 Direct Access Storage Facility under the Disk Operating System.  
The information in this document is divided into the following three sections:
- o An introduction that explains the functions of the IBM 3330 DASP supported by the Disk Operating System
  - o A section explaining the changes to DOS IOCS to support the 3330 DASP
  - o A section describing the changes required to other programming components
- This publication explains only the changes to current DOS IOCS, which is described in full in IBM System/360 Disk Operating System, Supervisor and Input/Output Macros (GC24-5037).
- GC33-5007  
SYSTEM/370 DISK OPERATING SYSTEM VERSION 4 - MANUAL  
No abstract available.
- GC33-5008  
DOS VERSION 4 SYSTEM GENERATION  
This reference publication describes the planning and the procedures necessary to generate and to maintain an installation-tailored IBM Disk Operating System (DOS) that provides support for IBM-supplied DOS programs you desire, as well as for your own programs. The major topics discussed are:
- o Planning the installation-tailored DOS supervisor
  - o Planning the installation-tailored DOS operational pack(s)
  - o Procedures for generating and for maintaining the DOS system
  - o Sample problems for testing the IBM-supplied DOS programs
- The information in this publication is of particular interest to anyone responsible for the planning and/or implementation of system generation and maintenance for DOS. This includes installation managers, system analysts, programmers, and machine operators.
- GC33-5009  
DOS VERSION 4 MESSAGES - SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBER 360N-CL-453  
This reference publication provides quick access information for operators and programmers who encounter DOS messages and use DOS commands and job control language.  
This publication does not include:
- o Any message issued by IBM Program Products.
  - o Any language message issued during compilation or assembly.
  - o RPG messages.
  - o OLTEP messages.
  - o Emulator messages.
- For detailed DOS operating information, see the companion publication, DOS Operating Guide, GC24-5022. For a list of associated publications, refer to the IBM System/360 and System/370 Bibliography, GA22-6822.
- GC38-0005  
IBM SYSTEM/370 MODEL 135 OPERATING PROCEDURES - SYSTEM LIBRARY MANUAL  
This manual provides operating and reference information for operators of the IBM System/370 Model 135. The reader is assumed to have a working knowledge of Introduction to IBM Data Processing Systems, GC20-1684, and some previous operating experience on either a similar system or related Data Processing Equipment.  
The manual describes how to operate the system hardware: IBM 3135 Processing Unit - The System CPU IBM 3046 Power Unit - The major source of electrical power for the CPU IBM 3210 and 3215 Console Printer-Keyboards Input/output devices that are attached to the CPU-integrated adapters.  
The principal Diagnostic Procedure in the manual requires IBM System/370 Model 135 Diagnostic Report, GX33-6003.
- GC38-0015  
OPERATOR'S LIBRARY: IBM SYSTEM/370 MODEL 145 OPERATING PROCEDURES  
This reference manual provides information necessary to operate the following units of the IBM System/370 Model 145:
- o IBM 3145 Processing Unit
  - o Console Printer-Keyboards:
  - o IBM 3210 Models 1 and 2
  - o IBM 3215
- o Console File  
Not included in this publication is operating information for related software and peripheral devices.  
This manual is intended primarily for System/370 Model 145 operators who have:
1. Basic computer knowledge and experience, or
  2. Operated other related data processing equipment, or
  3. Had previous computer operating experience on a similar system.
- GC50-0001  
IBM 2701 DATA ADAPTER UNIT AND ASCII AUTODIN ADAPTER (RPQ P16124): PRINCIPLES OF OPERATION  
This manual provides information concerning the operation of the IBM 2701 Data Adapter Unit and the ASCII Adapter RPQ P16124. The manual is divided into five sections, a glossary, and six appendices.  
The first section gives a general description of the 2701 and the AUTODIN Adapter, the functional organization of the 2701 and the configuration of the 2701.  
The second section describes the operation of the 2701 with System/360 Model 20. Subjects discussed here include communications line addressing, channel operation, and I/O instructions concerning the 2701 for the Model 20.  
The third section describes the operation of the 2701 with System/360 for Models 25 and above. Subjects discussed here include communications line addressing, multiplexor and selector channel operation, and I/O instructions concerning the 2701 for Models 30 and above.  
The fourth section covers the ASCII AUTODIN Adapter. A complete description of the operation of the adapter is made which includes transmit and receive operation sequences, status and sense bytes, line interfaces, and the operators panel.  
The fifth section covers the operating procedures of the 2701 Data Adapter Unit and the ASCII AUTODIN Adapter. The glossary contains definitions of certain terms used in this manual which may not be in common use.  
The appendices include charts on the ASCII code, representation of the ASCII code to System/360 codes, specifications on the 2701, and two electrical interface drawings.
- GE20-0022  
PUBLIC UTILITY CUSTOMER ACCOUNTING WITH THE IBM SYSTEM/360 ONLINE COMMUNICATION SYSTEM  
This manual describes an on-line customer accounting and customer service system using direct access storage devices and terminals. The system provides for: customer inquiries, service orders, transmission of payments, offline batch billing, and accounts receivable processing.
- GE20-0188  
RETAIL IMPACT (INVENTORY MANAGEMENT PROGRAM AND CONTROL TECHNIQUES) - APPLICATION DESCRIPTION PROGRAM NUMBERS: 360A-DR-04X, 360A-DR-05X, 360A-DR-08X, 360A-DR-09X  
The purpose of this manual is to describe the Retail IMPACT System for the retail industry. The Retail IMPACT System actually consists of two separate systems, one for staple and one for fashion merchandise. Either or both of these systems may be complemented. Programs for the systems are enumerated in the manual.  
The manual is divided into chapters which cover topics such as a general statement of the problems of retail inventory management; simulation and its uses; ordering parameters, methods of forecasting and forecasting techniques; record maintenance, purchase order generation, and operating and management reporting; design considerations; and implementation.  
Where appropriate, these topics are discussed separately for the fashion and staple systems. Also, graphic and report examples supplement the text, and a glossary of terms peculiar to the retail environment is included in the manual.
- GE20-0228  
OPTIMUM BOND BIDDING - USER'S MANUAL PROGRAM NUMBER 360A-FI-061  
This program has been designed to help underwriters determine the coupon schedule and associated values for a bid on a new bond issue. A mathematical procedure is used which develops an optimal set of coupon rates. The optimization procedure minimizes the net interest cost of effective rate, whichever is applicable, while remaining within the constraints established by the issuer and those established by the underwriter. A number of options are provided which help the user obtain bidding information for issues with various characteristics.  
This manual contains a general description of the program, including all mathematical formulas, machine configuration, general systems chart, input/output description, sample problem, operating instructions, and halt and message list. IBM (GX20-1736) facilities preparation of input data for the program.

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- GE20-0246  
SYSTEM/360 DEMAND DEPOSIT ACCOUNTING APPLICATION DESCRIPTION  
PROGRAM NUMBER 360A-FB-15X  
This manual is an introductory text describing the scope and capabilities of the IBM System/360 Demand Deposit Application programs. It deals with the requirements for a demand deposit application in either a single bank or a multi-bank environment, describes the results and advantages a bank may expect from using the application programs, summarizes the accomplishments of each of the programs provided, contains information on how to get started, and illustrates some of the record layouts and reports produced. The appendix describes machine requirements, the use of other programming products, sample timings, and disk pack requirements.
- GE20-0256  
SYSTEM/360 TEXT PROCESSOR -- COMPOSITION/360.  
APPLICATION DESCRIPTION  
PROGRAM NUMBER 360A-DF-08X  
COMPOSITION/360 acts in conjunction with user-supplied programs and the full facilities of the Disk Operating System for System/360. It consists of control and functional routines that accept input from a user-prepared disk-resident file, produces generalized justified output records, and stores them in a specified disk area. If word division capabilities are required, the HYPHENATION/360 program is linked with COMPOSITION/360.
- GE20-0257  
SYSTEM/360 TEXT PROCESSOR - HYPHENATION/360 APPLICATION  
DESCRIPTION. PROGRAM NUMBER 360A-DF-07X  
HYPHENATION/360 provides division of words for text processing applications in which the addition of word syllables to a line to meet justification requirements is preferable to forcing the line to end with a complete word. This hyphenation capability is provided in the form of a module that can be linked with a user's System/360 text-processing program or the COMPOSITION/360 module of the IBM System/360 Text Processor.  
Through program linkage, HYPHENATION/360 accepts a word from the user's program and determines the division points. The word, with the division points indicated, is returned to the user's program, where the portion to be retained on the line can be selected on the basis of the user's graphic requirements.  
This publication contains descriptions of the application and program, a general system chart, programming system, minimum machine, core, and disk requirements.  
For more detailed information, see the program Description Manual (GH20-0525).
- GE20-0306  
1287 INPUT CONVERSION PROGRAM, APPLICATION DESCRIPTION  
PROGRAM NUMBER 360A-DR-07X  
The IBM Input Conversion Program translates cut-form document information from the IBM 1287 Optical Reader into computer-processable data. The program is designed to enable a user to utilize the IBM 1287 Optical Reader in implementing input conversion in an efficient and economical manner without the need of additional programming. The input conversion process is an essential link between the data sources and utilization in an integrated data processing system.
- GE20-0312  
PREFACE TO PL/I PROGRAMMING IN SCIENTIFIC COMPUTING  
In a brief and simple manner, this manual:  
-Lists some problems arising in industry, business, science, and engineering  
-Survey the mathematical, statistical, and operations research (OR) by which these problems are solved  
-Tells how a few of such techniques and models are programmed for computers using the PL/I language  
The major portion of the manual concentrates on PL/I. The essentials are brought out mostly by the many short examples and the summary exhibits.
- GE20-0324  
SYSTEM/360 TEXT PROCESSOR -- EDIT/360, APPLICATION  
DESCRIPTION MANUAL PROGRAM NUMBER 5736-K11  
The EDIT/360 component of the IBM System/360 Text Processor consists of control and functional routines which retrieve input from a user prepared disk-resident file. Input consists of textual material, text formatting commands, and output requests. After the output text has been proofread, alterations can be made to stored textual data through the use of text modification commands without re-entering the original text input. Completely justified and corrected text is written as generalized disk records. The user must provide routines to retrieve specific composition device on which final printing will occur, and write it to the appropriate systems output device.
- GE20-0350  
A PREFACE TO LINEAR PROGRAMMING AND ITS APPLICATIONS  
This manual attempts to motivate the reader's interest in an important, general purpose tool called linear programming. The stress is on examples, benefits, and applications in a wide spectrum of industries and disciplines; the literature references are especially extensive. Included is a simple nontechnical glossary of basic concepts.
- GE20-6088  
PLANNING FOR AN IBM DATA PROCESSING SYSTEM  
This publication is an excellent guide for answers to many preinstallation planning problems. It is oriented to assist in the installation of intermediate and larger data processing systems, with emphasis on commercial installations. The subjects covered in separate sections of this manual include the data processing organization, selection and education of personnel, planning and progress control, systems design, program preparation, documentation, standardization, program testing, conversion, physical site preparation and operating the installation. There is also a discussion on the considerations of a scientific installation. Many planning and operating forms are illustrated and a brief glossary of data processing terms is included.
- GE20-8172  
BIBLIOGRAPHY OF DATA PROCESSING TECHNIQUES  
This bibliography and associated classification system provide a means to identify selected IBM publications which, either wholly or in part, document data processing techniques information. THE LISTING OF ANY GIVEN PUBLICATION IN THIS BIBLIOGRAPHY, HOWEVER, DOES NOT PRECLUDE ITS APPEARANCE IN OTHER REFERENCE BIBLIOGRAPHIES SUCH AS THE SYSTEMS REFERENCE LIBRARY.  
Part I of this bibliography lists publications within major subject classification. Note that a publication may appear in more than one classification. Part II contains abstracts of the publications in form-number sequence.
- GH12-5103  
IBM SYSTEM/360 AND SYSTEM/370, IBM 1130 AND 1800 SUBROUTINE  
LIBRARY-MATHEMATICS (SL-MATH) GENERAL INFORMATION MANUAL  
The Subroutine Library-Mathematics (SL-MATH) is a collection of subroutines dealing with matrix algebra and numerical mathematics. The subroutines are written in FORTRAN IV. SL-MATH consists of input/output-free computational building blocks which may be combined with the user's input or computation routines to meet his individual requirements. The subroutines in this library can be applied to the solution of many problems in industry, science, and engineering.  
This manual presents an introduction to SL-MATH, a list of the capabilities of the library, rules of usage, system configuration, programming systems, and a list of reference material.
- SH12-5407 \*N  
IBM SYSTEM/360 AND SYSTEM/370, STORAGE AND INFORMATION  
RETRIEVAL SYSTEM (STAIRS), PROGRAM PRODUCT REFERENCE  
MANUAL - PROGRAM NUMBER 5734-XR3  
The IBM System/360 and System/370 Storage and Information Retrieval System (STAIRS) is a terminal-oriented system that offers the user a variety of resources for data-base creation and maintenance, and especially for data-base searching and document output.  
The system is used to retrieve stored documents which contain unformatted textual and/or formatted data. Documents are retrieved in an on-line dialogue between the system and the user. The user formulates queries in extended Boolean logic and/or comparison operators.  
This manual contains the general program description, a description of the data-base creation and data-base merge programs, of all input/output and intermediate data sets, and of the terminal operations. It also includes installation requirements and the messages supplied by STAIRS.  
For further information on STAIRS, the reader is referred to the following publications:  
o General Information Manual, Form GH12-5107  
o Operation Guide, Form SH12-5509
- SH12-5509 \*N  
IBM SYSTEM/360 AND SYSTEM/370, STORAGE AND INFORMATION  
RETRIEVAL SYSTEM (STAIRS), OPERATION GUIDE  
PROGRAM PRODUCT 5734-XR3  
This manual contains all information required to install the Storage and Information Retrieval System (STAIRS), and to incorporate it into an IBM System/360 or System/370 for subsequent execution under control of the IBM Customer Information Control System (CICS). It includes information on the data-base creation and data-base merge programs as

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well as on system maintenance and utilities.

The reader of this manual should be familiar with the principles of teleprocessing, the IBM Operating System, and the IBM Customer Information Control System (CICS).

GH19-0014

IBM SYSTEM/360 RESOURCE ALLOCATION (REAL/360)  
FOR PROJECT CONTROL SYSTEM/360  
APPLICATION DESCRIPTION MANUAL  
PROGRAM NUMBER 5736-XP2

REAL/360 complements the Project Control System/360 (PCS). Present conventional PERT/CPM-type scheduling programs provide project schedulers or managers with an efficient tool for planning, evaluating, scheduling, and controlling the activities to be managed; unlimited availability of resources, however, is assumed.

REAL/360 enables users to define project schedules, based on PCS results, while at the same time taking various resource limitations and time constraints into account. The reader should be knowledgeable in PERT/CPM techniques and be familiar with Project Control System/360 (360A-CP-06X, Version 2).

SH19-0026

IBM SYSTEM/360 RESOURCE ALLOCATION (REAL/360)  
FOR PROJECT CONTROL SYSTEM/360  
PROGRAM DESCRIPTION AND OPERATIONS MANUAL  
PROGRAM NUMBER: 5736-XP2

REAL/360 performs the resource allocation in a project control system. It enables users to define project schedules, based on the results of the Project Control System/360 (PCS), while at the same time taking various resource limitations and time constraints into account. This manual provides information necessary for understanding the functions of REAL/360 and for preparing and operating the system.

The reader should be familiar with the following publications:

PROJECT CONTROL SYSTEM/360 APPLICATION DESCRIPTION MANUAL, Form GH20-0222

PROJECT CONTROL SYSTEM/360 PROGRAM DESCRIPTION AND OPERATIONS MANUAL, Form GH20-0076

IBM SYSTEM/360 RESOURCE ALLOCATION (REAL/360) FOR PROJECT CONTROL SYSTEM/360 APPLICATION DESCRIPTION MANUAL, Form GH19-0014.

GH19-2000

IBM VEHICLE SCHEDULING PROGRAM--EXTENDED  
GENERAL INFORMATION MANUAL  
PROGRAM NUMBERS 5734-XM5 (OS), 5736-XM3 (DOS)

This publication describes the general capabilities of the IBM Vehicle Scheduling Program--Extended (VSPX), and explains some of its various uses.

The Vehicle Scheduling Program--Extended determines the route that a group of vehicles must travel in order to meet certain commitments in the delivery of services or products to a given number of destinations. The result is a feasible schedule representing a good balance of basic-variable values, such as travel time and number of vehicles used.

To achieve this, the program analyzes a network representing the potential calling points and computes either the actual or the approximate distances between all points. A schedule is then produced which adheres to such restrictions as route time, speed, vehicle capacity, and customer requirements. The reader of this manual should be familiar with data processing and the IBM System/360 or the IBM System/370.

SH19-2304

IBM VEHICLE SCHEDULING PROGRAM--EXTENDED  
(OS AND DOS) PROGRAM DESCRIPTION MANUAL  
PROGRAM NUMBERS 5734-XM5 (OS), 5736-XM3 (DOS)

This manual contains detailed information about the preparation for, the functions of, and the use of the IBM Vehicle Scheduling Program--Extended (VSPX). Detailed suggestions concerning data preparation are included. The reader should be familiar with the general information Manual IBM Vehicle Scheduling Program--Extended (OS and DOS), Form GH19-2000.

SH19-2607 see page 228

SH19-2608

IBM VEHICLE SCHEDULING PROGRAM - EXTENDED (DOS)  
OPERATIONS MANUAL, PROGRAM NUMBER 5736-XM3

This manual describes the machine-readable material of the Vehicle Scheduling Program - Extended (VSPX), executed under DOS, as distributed to the users. It discusses all procedures required for generating, cataloging, and executing VSPX. It also lists the error messages issued by VSPX.

This manual enables the user to install and execute VSPX.

GH19-2903

IBM VEHICLE SCHEDULING PROGRAM - EXTENDED (DOS)  
SPECIFICATIONS - PROGRAM NUMBER 5736-XM3  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.

GH19-5012

MATRIX GENERATOR AND REPORT WRITER (MGRW)  
GENERAL INFORMATION MANUAL - PROGRAM PRODUCT 5734-XMC  
MGRW is a language for rapid error-free generation of mathematical programming models, and for producing clear reports to individual requirements from the optimal solutions to these problems. This manual describes briefly the facilities of the language, and examines the advantages and savings made possible by the use of MGRW.  
Readers should have some knowledge of Mathematical Programming.

GH19-5042

MATRIX GENERATOR AND REPORT WRITER (MGRW) PRIMER  
PROGRAM PRODUCT 5734-XMC  
This manual describes the basic concepts and facilities of MGRW by working through an example of a simple linear programming problem.  
Readers are expected to be familiar with both MPSX and Linear Programming (LP).

GH19-7000

CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) AND  
GRAPHIC FEATURE (CSMP III GRAPHIC FEATURE) GENERAL  
INFORMATION MANUAL - PROGRAM NUMBER 5734-XS9  
CSMP III is an IBM program product which aids development and execution of simulation models for continuously changing systems represented by differential equations. CSMP III is a significant extension of the previously available System/360 CSMP. It offers:

- o A model-building language based on and including the widely accepted FORTRAN IV language.
- o A broad selection of formats for displaying or tabulating simulation results.
- o A symbolic library system for storing and retrieving models and commonly used routines.
- o An optional Graphic Feature that dramatically reduces model development time by providing interaction between man and machine at all stages of the simulation process.

SH19-7001

CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) PROGRAM  
REFERENCE MANUAL - PROGRAM NUMBER 5734-XS9

This is an IBM program product for the simulation of continuous systems. CSMP III provides an application oriented input language that accepts models expressed in the form of either an analog block diagram or a system of ordinary differential equations. Data input and output are facilitated by application-oriented control statements.

This manual contains a general description of the program, detailed programming information, and a description of input and output.

SH19-7002

CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III)  
OPERATIONS GUIDE - PROGRAM NUMBER 5734-XS9

Continuous System Modeling Program III (CSMP III) is an IBM program product for the simulation of continuous systems. CSMP III provides:

- o Functions for performing the simulation of continuous systems
- o The capability of using FORTRAN IV statements
- o A system for building, maintaining, and using as an extension to the language libraries of commonly used application-oriented routines.
- o A wide choice of formats for obtaining print-plotted and tabulated output of simulation results

This manual contains information and procedures that enable the reader to retrieve machine-readable material from the basic distribution tape, create the required system load modules, incorporate frequently used procedures into the OS procedure library (named SYS1 PROCLIB), and execute the supplied sample model. It also describes how to modify the CSMP III source and object modules to build the modified system, back up such a modified system, and maintain the CSMP III Symbolic Library data set.

SH19-7003

CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) GRAPHIC  
FEATURE - PROGRAM REFERENCE MANUAL - PROGRAM NUMBER 5734-XS9  
The Graphic Feature extends the simulation capability of the Continuous System Modeling Program III, via the IBM 2250 Display Unit, to an interactive environment especially conducive to the experimental process. In combination, they are referred to in this manual as Graphic CSMP III.

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This manual describes the Graphic Processor panels and explains how the user employs them to interact with his CSMP III model development, control simulation runs, and interrogate simulation results. The user is shown how to combine the Graphic CSMP III Symbolic Library and the Save data sets for on-line storage and retrieval of data, sub-models or entire models. The manual also explains how to employ the Information data set to answer questions concerning the use of CSMP III statements.

messages originating at remote terminal locations and destined for one or more terminal locations in the same network. A switching center maintains control of the network and performs various checks to ensure against message loss or duplication. The program provides queuing messages for output and logging messages for later retrieval. Messages destined to inoperative terminals are held in a queue until delivery is possible. The program also provides various supervisory controls for efficient operation of the system.

SH19-7004

CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) GRAPHIC FEATURE OPERATIONS GUIDE - PROGRAM NUMBER 5734-XS9  
 The Graphic Feature extends the simulation capability of the Continuous System Modeling Program III, via the IBM 2250 Display Unit, to an interactive environment especially conducive to the experimental process. In combination, they are referred to in this manual as Graphic CSMP III to convey this interactive capability.

This manual contains information and procedures that enable the reader to retrieve machine-readable material from the basic distribution tape, create the required system load modules, incorporate frequently used procedures into the OS procedure library (named SYS1 PROC LIB) and execute the supplied sample model. It also describes how to modify the Graphic CSMP III source and object modules, build the modified system load modules, back up such a modified system, and maintain the Graphic CSMP III Symbolic Library, Information and Save data sets.

GH20-0166

SYSTEM/360 SCIENTIFIC SUBROUTINE PACKAGE (360A-CM-03X) VERSION III APPLICATION DESCRIPTION

The Scientific Subroutine Package (SSP) is a collection of over 250 FORTRAN subroutines divided, for the sake of presentation, into two groups: statistics and mathematics. Over 200 subroutines are presented in both single- and double-precision mode. SSP is a collection of input/output-free computational building blocks that can be combined with a user's input, output, or computational routines to meet his needs. The package can be applied to the solution of many problems in industry, science, and engineering. Version 3 of the Scientific Subroutine Package for System/360 incorporates and extends the capabilities of the original SSP/360. This version provides over 40 new mathematical and statistical subroutines, 24 of which are in both single- and double-precision FORTRAN. Typical of the new capabilities is the use of the QR iteration for obtaining eigenvalues of a matrix, and the non-parametric test of Kolmogorov-Smirnov.

The Application Description presents the purpose and objectives of the program, a list of subroutines, machine configuration, programming systems, precision, and a list of reference material.

GH19-7010

GRAPHIC FEATURE FOR THE CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) - PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-XS9

These are the program product specifications for the Graphic Feature for the Continuous System Modeling Program III (CSMP III), program number 5734-XS9.

GH20-0173

SYSTEM/360 WHOLESALE IMPACT PROGRAM LIBRARY (360A-DW-05X) - APPLICATION DESCRIPTION

This manual describes use of the System/360 Wholesale IMPACT Program Library to implement the IMPACT system for scientific inventory management. The IMPACT system provides the means of deciding when to order and how much to order for items in inventory to minimize the total cost of inventory, purchasing, receiving, and lost discounts for any specified level of service. This is accomplished by using probability science in combination with an IBM System/360.

GH20-0126

ADVANCED LIFE INFORMATION SYSTEM (DOS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-N11

This system represents a new insurance information systems approach to the maintenance, processing, and servicing of individual life insurance contracts. It provides for immediate direct access inquiry and a base for a teleprocessing communications network.

The system uses a modular programming technique to process all scheduled and nonscheduled transactions, to provide figures for annual and interim statement purposes, to update policies with cash values, dividends, and other forms of participation, and to update policies with renewable term premiums on or just before anniversary. Internal and remote interrupt capabilities provide policy status on loan, surrenders, and mode premium values.

Basically, the information contained in this manual includes a general description of the system, insurance statements describing the approach, and a discussion of the policy master record. The manual is intended to define for the reader the amount of information needed to establish the system and to serve as a guide for his early planning.

GH20-0181

SYSTEM/360 APT NUMERICAL CONTROL PROCESSOR VERSIONS 3 AND 4 (360-CM-10X) APPLICATION DESCRIPTION

The IBM System/360 APT uses a symbolic language to simplify the preparation of instructions for numerically controlled machine tools. The APT processor prepares intermediate data for a user-written postprocessor program.

GH20-0136

MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X) APPLICATION DESCRIPTION

MPS/360 is an open-ended mathematical programming system. This manual is an overview of the capabilities of the programs composing MPS/360.

Use of the MPS/360 might involve building of a mathematical model, finding an optimal solution, determining the effect of changing key data on the optimal solution, computing alternate solutions by systematically varying cost or requirements data, and preparing a management report. Application areas include material allocation, blending of ingredients, production or refinery scheduling, distribution and shipping, machine loading, waste reduction, and many other areas.

GH20-0106

GENERAL PURPOSE SIMULATION SYSTEM/360 - APPLICATION DESCRIPTION PROGRAM NUMBERS 360A-CS-17X, 360A-CS-19X

This manual discusses the role of GPSS in system simulation, briefly describes the operation of the GPSS program, and points out its application scope. A final section describes the new entities, block types, expanded features, and system requirements of GPSS/360.

GH20-0194

SYSTEM/360 DATA CONVERSION UTILITIES - APPLICATION DESCRIPTION PROGRAM NUMBERS, 360A-SE-15X, 360A-SE-20X, 360A-SE-26X

This publication describes the general capabilities of IBM System/360 Data Conversion Programs and, through examples, illustrates their use.

The IBM System/360 Data Conversion Programs provide an effective and flexible capability for converting current IBM system data files to system/360 data sets. Designed as general purpose utility programs utilizing control cards, the programs will accept data sets from current IBM systems tape or DASD devices and write these data sets in the proper formats on System/360 tape or DASD devices. The programs have data transformation capability that allows maximum flexibility in resystemizing data sets for System/360.

GH20-0149

SYSTEM/360 ONLINE TELLER PROGRAM WITH BACKGROUND PROCESSING CAPABILITY (360A-FB-16X) APPLICATION DESCRIPTION

This program furnishes System/360 programming support for 1060 systems and minimizes expenses in installing and maintaining teller terminal complexes. The Application Description gives an overview of the program, lists its advantages, discusses applications and machine-oriented concepts, presents control and audit procedures, and contains other standard sections, plus a glossary of terms.

GH20-0197

S/360 BILL OF MATERIAL PROCESSOR (360A-ME-06X) APPLICATION DESCRIPTION

Consists of basic program modules to create and maintain the part number master and the product structure files, program revisions required to create and maintain manufacturing routing and work center master files, and file reorganization modules.

GH20-0165

COMMUNICATION CONTROL APPLICATION PROGRAM (360A-SC-01X) APPLICATION DESCRIPTION

This manual introduces a program to switch administrative

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This program represents a continued support by IBM in the areas of manufacturing application definition and implementation. The package provides manufacturing organizations with easy-to-modify programs that establish and maintain basic information files describing the structure of products and their manufacturing procedures and logic diagrams explaining the retrieval of this information in fundamental applications.

GH20-0199

FLOWCHART - APPLICATION DESCRIPTION  
PROGRAM NUMBERS 360A-SE-22X

The IBM System/360 Flowchart is a System/360 program designed to produce program flowcharts. This documentation aid operates under the IBM Disk Operating System (DOS) and is intended to minimize the planning and effort required to produce and maintain program documentation.

It enables the user to:

1. Produce clear, standardized, easily reproduced computer-generated flowcharts.
2. Facilitate program development by keeping flowcharts continually up to date.
3. Standardize flowcharting techniques.

This publication describes the purposes and objectives of the IBM System/360 Flowchart and explains its uses. It contains a general description of the application, a discussion of the input language, an explanation of System/360 Flowchart processing, a detailed description of the statements, and miscellaneous application information.

For detailed information, the user is referred to the User's Manual.

GH20-0202

STUDENT SCHEDULING SYSTEM/360 APPLICATION DESCRIPTION  
PROGRAM NUMBERS 360A-US-06X, 360A-US-07X

Student Scheduling System/360 is a class section assignment package for scheduling students in secondary schools, vocational schools, and junior colleges. After a school has created a master schedule of course offerings, the system processes student requests to create student schedules and class lists.

This scheduling package includes two auxiliary programs. A Tally program and a Conflict Matrix program furnish the school administrator with data useful to master schedule creation. The Tally run lists the total number of students requesting each course, and the Conflict Matrix points out potential scheduling conflicts.

The new package contains improvements over many similar programs. Greater flexibility is achieved by inclusion of many new user options, such as better study hall control, common-course scheduling, an expanded prerun edit, and alternate course substitution. Parameters controlling number of periods per day, number of courses offered, sections per course, and total number of sections have been significantly enlarged. Features of the new IBM System/360 are also utilized to increase overall program effectiveness.

GH20-0205

SYSTEM/360 SCIENTIFIC SUBROUTINE PACKAGE (360A-CH-03X)  
VERSION III PROGRAMMER'S MANUAL

This Scientific Subroutine Package (SSP) is a collection of over 250 FORTRAN subroutines divided, for the sake of presentation, into two groups: statistics and mathematics. Also, over 200 subroutines are presented in both single and double precision mode. SSP is a collection of input-output-free computational building blocks that can be combined with a user's input, output, or computational routines to meet his needs. The package can be applied to the solution of many problems in industry, science, and engineering.

Version 3 of the Scientific Subroutine Package for System/360 incorporates and extends the capabilities of the original SSP/360. This version provides over 40 new mathematical and statistical subroutines 24 of which are in both single- and double-precision FORTRAN. Examples of the new capabilities are the use of the QR iteration for obtaining eigenvalues of a matrix, and the nonparametric test of Kolmogorov-Smirnov.

This manual contains sufficient information to permit the reader to understand and use all of the subroutines of the Scientific Subroutine Package.

GH20-0210

PROJECT MANAGEMENT SYSTEM (360A-CP-04X) VERSION 2 FOR IBM  
SYSTEM/360 - APPLICATION DESCRIPTION

PMS/360 is a highly modular set of computer program routines, each performing one function common to many management applications. It is open-ended - that is, the number of functions under PMS/360 can be expanded and added to. It is versatile - that is, the user can control program logic without resorting to reprogramming. Output reports can be defined with a single set of procedural statements and can be revised with every computer run if required.

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The computer code itself is written in a way that simplifies modification, if this ever becomes necessary. At present, PMS/360 contains the following three modules: a Network Processor, a Cost Processor, and a versatile Report Processor. In suitable combinations these processors will accomplish the data processing required in critical path analysis, PERT, and PERT Cost.

GH20-0217

SYSTEM/360 COBOL EDIT ON THE 1401 PROGRAM REFERENCE MANUAL  
(1401-SE-13X)

This program is of benefit to System/360 COBOL users in detecting syntactical errors in System/360 COBOL program statements before compilation of the System/360.

The program reference manual contains complete data on the application description, programming information, and operating instructions. Systems information is not presented in detail.

GH20-0220

STUDENT SCHEDULING SYSTEM/360 THE TALLY AND CONFLICT MATRIX  
PROGRAMS (360A-US-06X) USER'S MANUAL

Use of the Tally and Conflict Matrix programs of Student Scheduling System/360 is facilitated by this combined programmer's and operator's manual. These two programs furnish the school administrator the data needed to create the best possible master schedule of course and section offerings, prior to use of the Scheduler Program.

The Tally program accumulates the number of students requesting each course, by sex and by grade. These counts are used to determine how many sections of a given course are required. Those courses shown to require one- or two-section offerings are entered into the Conflict Matrix program, which is then used to point out potential scheduling conflicts.

The programmer's section of this manual contains program systems charts, general program description, I/O description, program modification aids, sample problem, etc. The operator's section contains program setup sheet, console operator's instructions, message list, storage maps, and restart procedures.

GH20-0222

SYSTEM/360 PROJECT CONTROL SYSTEM (360A-CP-06X) VERSION 2  
APPLICATION DESCRIPTION

This manual presents a brief description of a project control system, and discusses the design, features, and input/output characteristics of a computer program developed to serve as a data processing element of such a system. Although the IBM System/360 Project Control System is designed primarily for those areas of government and industry concerned with construction, repair, or maintenance, its features are such that it can meet the critical path requirements of a broad range of users, regardless of industry.

GH20-0232

SYSTEM/360 DATA CONVERSION UTILITY I PROGRAMMER'S MANUAL  
(360A-SE-15X)

This program is useful in converting IBM 1620/1401/1440/1460/1410/7010 card, tape, and DASD data files to System/360 tape or DASD data sets.

The Programmer's Manual presents a general and detailed description of the program and its operation under the IBM System/360 Basic Operating System (8K disk). In addition, the individual modules, standard program interfaces, and incorporation of user modules are discussed.

The reader should be familiar with IBM SYSTEM/360 DATA CONVERSION UTILITY I - APPLICATION DESCRIPTION, Form H20-0194, IBM BASIC OPERATING SYSTEM/360 ASSEMBLER WITH INPUT/OUTPUT MACROS (8K DISK), Form C24-3361, and IBM BASIC OPERATING SYSTEM/360 PROGRAMMER'S GUIDE, Form C24-3372.

GH20-0233

SYSTEM/360 DATA CONVERSION UTILITY I OPERATOR'S MANUAL  
(360A-SE-15X)

This program is useful in converting IBM 1620/1401/1440/1460/1410/7010 card, tape, and DASD data files to System/360 tape or DASD data sets.

The Operator's Manual presents a program setup sheet, console operating instructions, message list, storage maps and restart procedures.

The reader should be familiar with SYSTEM/360 DATA conversion utilities - application description, (GH20-0194), IBM System/360 Data Conversion Utility I - Programmer's Manual, (GH20-0232), and IBM Basic Operating System/360 Operating Guide, order number GC24-3450.

GH20-0239

STUDENT SCHEDULING SYSTEM/360 THE SCHEDULER PROGRAM  
(360A-US-07X) USER'S MANUAL

Student Scheduling System/360 is a class section assignment program for scheduling students in secondary schools,

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- vocational schools, and junior colleges. After a school has created a master schedule of course offerings, the system processes student requests to create student schedules and class lists.
- This manual contains a detailed explanation of the Scheduler program within the scheduling application framework, with special emphasis on input data and output reports. It also included an "Operator's Section", which describes operational setup and running procedures.
- GH20-0240  
SYSTEM/360 CONTINUOUS SYSTEM MODELING PROGRAM (360A-CX-16X)  
APPLICATION DESCRIPTION  
This is an IBM System/360 program for the simulation of continuous systems. It provides an application-oriented input language that accepts problems expressed in the form of either an analog block diagram or a system of ordinary differential equations. Data input and output are facilitated by means of application-oriented control statements.
- This manual contains a general description of the application, the machine configuration, a general systems chart, and a sample problem.
- GH20-0242  
SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR OS/360  
APPLICATION DESCRIPTION  
PROGRAM NUMBER 360A-SE-33X  
This manual describes the macro-instruction support which enables a System/360 with OS/360 to communicate with STR-type terminal devices. The level of support is discussed, and the language is briefly described.
- GH20-0243  
SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR DOS/360  
APPLICATION DESCRIPTION  
This manual describes the macro-instruction support which enables a system/360 with DOS/360 to communicate with STR-type terminal devices. The level of support is discussed, and the language is briefly described.
- GH20-0244  
COMMUNICATIONS CONTROL APPLICATION PROGRAM (360A-SC-01X)  
PROGRAMMER'S MANUAL  
This manual is intended to supply an overall understanding of the CCAP system concepts. It contains sufficient information to allow a systems programmer to plan and design a CCAP installation.
- GH20-0245  
COMMUNICATIONS CONTROL APPLICATION PROGRAM (360A-SC-01X)  
This manual is intended for use as a console operator's guide. The information herein includes those items necessary for daily operation of the CCAP system. The manual presents loading instructions, a section describing each console control order with associated printed outputs, header error TTY outputs, and error outputs that may occur during operation.
- GH20-0246  
S/360 BILL OF MATERIAL PROCESSOR (360-ME-06X) VERSION 2  
PROGRAMMER'S MANUAL  
Consists of basic program modules to create and maintain the part number master and the product structure files, program revisions required to create and maintain manufacturing routing and work center master files, and file reorganization modules.
- This program represents a continued support by IBM in the areas of manufacturing application definition and implementation. The package provides manufacturing organizations with easy-to-modify programs that establish and maintain basic information files describing the structure of products and their manufacturing procedures and logic diagrams explaining the retrieval of this information in fundamental applications.
- GH20-0254  
S/360 BILL OF MATERIAL PROCESSOR (360A-ME-06X) VERSION 2  
OPERATOR'S MANUAL  
Consists of basic program modules to create and maintain the part number master and the product structure files, program revisions required to create and maintain manufacturing routing and work center master files, and file re-organization modules.
- This program represents a continued support by IBM in the areas of manufacturing application definition and implementation. The package provides manufacturing organizations with easy-to-modify programs that establish and maintain basic information files describing the structure of products and their manufacturing procedures and logic diagrams explaining the retrieval of this information in fundamental applications.
- GH20-0255  
SYSTEM/360 WHOLESALE IMPACT PROGRAM LIBRARY (360A-DW-05X) -  
USER'S MANUAL  
This program library provides a distributor with the information necessary to determine when and how much to order. This minimizes the total cost of carrying inventory, purchasing, receiving, freight charges, and lost discounts for any specified level of service. The program library uses probability science in combination with an IBM System/360.
- The IMPACT programs are grouped into two categories: initializing and estimating programs, and operating programs. Five programs are provided for initializing and estimating purposes: (1) edit run, (2) mean absolute deviation and forecast model run, (3) order quantity and order model run, (4) safety stock and safety factor run, and (5) report generator run. Three programs are provided for operating purposes: (1) service point and variable interval allocation run, (2) fixed interval allocation run, and (3) allocation print run.
- The User's Manual contains a general description of the overall program and a detailed description of each subprogram.
- GH20-0256  
SYSTEM/360 WHOLESALE IMPACT PROGRAM LIBRARY (360A-DW-05X) -  
OPERATOR'S MANUAL  
This program library provides a distributor with the information necessary to determine when and how much to order. This minimizes the total cost of carrying inventory, purchasing, receiving, freight charges, and lost discounts for any specified level of service. The program library uses probability science in combination with an IBM System/360 Data Processing System.
- The IMPACT programs are grouped into two categories: initializing and estimating programs, and operating programs. Five programs are provided for initializing and estimating purposes: (1) edit run, (2) mean absolute deviation and forecast model run, (3) order quantity and order model run, (4) safety stock and safety factor run, and (5) report generator run. Three programs are provided for operating purposes: (1) service point and variable interval allocation run, (2) fixed interval allocation run, and (3) allocation print run.
- GH20-0262  
SYSTEM/360 DEMAND DEPOSIT ACCOUNTING (360A-FB-15X) -  
OPERATOR'S MANUAL  
This manual contains operating instructions for the runs that make up the System/360 Demand Deposit Accounting application program. It includes instructions for preparation of all I/O units, and, for each program, a program setup sheet, operating instructions, operator message list, and core map.
- GH20-0263  
SYSTEM/360 DEMAND DEPOSIT ACCOUNTING (360A-FB-15X)  
PROGRAMMER'S MANUAL - PROGRAM NUMBER 360A-FB-15X  
This program is adaptable by commercial banks to accomplish demand deposit accounting in either a single or multi-bank environment. The program provides for conversion of IBM 1440 series disk and tape balance and name/address records. Also included are programs to collect and display historical profit and loss information for selected accounts or groups of accounts.
- For each program, this manual presents a program abstract, program systems chart, and general description. Where applicable, some program modification aids are included.
- The input/output section includes a summary for all files by type (card, disk, tape, printer, and MICR) and a visual record layout and description of file functions.
- GH20-0283  
PROPERTY AND LIABILITY INFORMATION SYSTEMS (PALIS)  
APPLICATION DESCRIPTION MANUAL  
PROGRAM NUMBERS 360A-IP-10X, -11X, -13X, AND 5736-N21, -22  
The power and capacity of the IBM System/360 make possible the use of powerful techniques in insurance data processing. The Property and Liability Information System is designed to implement these techniques. The system represents a new insurance information systems approach to the maintenance and processing of insurance contracts in a property and liability company. It provides on-line status inquiry and a base for a teleprocessing communications network.
- The system uses a modular programming technique to process the following transactions for all lines of insurance: new business, renewals, endorsements - money and non-money, cancellations, direct billing, premium collections, claims arising, claims updating, and status inquiries. Programs are written in a modular fashion to permit ease of understanding, maintenance, and modification, thus permitting each user to modify the system to his own specific needs.

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The heart of this system is the detailed policy master file stored on the IBM 2321 Data Cell Drive or the IBM 2314. Since the file will be updated daily, every record will be current as of the last transaction processed and applied to the policy. For homeowners with private passenger automobile, the system provides rating for new business, renewals, endorsements, and cancellations; it also maintains the policy record.

This manual contains a general description of the system. It is intended to define for the reader the amount of information needed to evaluate PALIS initially.

GH20-0285

SYSTEM/360 DATA CONVERSION UTILITY III, VERSION 2  
PROGRAMMER'S MANUAL (360A-SE-26X)  
These macros will be helpful in converting IBM 705/1401 1410/1440/1460/1620/7010/7040/7044/7070/7074/7080/7090/7094 card or tape data files to System/360 tape or DASD data sets.

This manual presents a general and detailed description of the program and its operation under the IBM System/360 Tape Operating System and the IBM System/360 Disk Operating System. In addition, the macro capabilities, standard program interfaces, and incorporation of user instructions are discussed.

The reader should be familiar with the corresponding Manual, (GH20-0286), and with those IBM System/360 manuals listed in the application directory.

GH20-0286

SYSTEM/360 DATA CONVERSION UTILITY III, VERSION 2  
OPERATOR'S MANUAL  
PROGRAM NUMBER 360A-SE-26X  
This program will be useful in converting IBM 705/1401 1410/1440/1460/1620/7010/7040/7044/7070/7074/7080/7090/7094 card and tape data files to System/360 tape or DASD data sets.

This manual presents operating procedures, a message list, restart procedures, and a program setup sheet.

The reader should be familiar with the corresponding application description, (GH20-0194), and programmer's manual, (GH20-0285), and with IBM System/360 Tape Operating System, Operating Guide, (GC24-5021), or IBM System/360 Disk Operating System, Operating Guide, order number GC24-5022.

GH20-0290

MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CQ-14X) VERSION 2  
CONTROL LANGUAGE USER'S MANUAL  
This manual is one of a series of manuals which describe the use of the IBM Mathematical Programming System/360 (MPS/360). This manual describes the organization of the components of MPS/360 and their interface with Operating System/360 OS/360. It also describes in detail the control language used to communicate a solution strategy for solving a mathematical programming problem to MPS/360, and OS/360 job control language statements necessary to execute MPS/360.

GH20-0293

SYSTEM/360 FLOWCHART USER'S MANUAL (360A-SE-22X)  
The IBM System/360 Flowchart is a System/360 program designed to produce program flowcharts. This documentation aid operates under the IBM Disk Operating System (DOS) and is intended to minimize the planning and effort required to produce program flowcharts. This documentation aid operates under the IBM Disk Operating System (DOS) and is intended to minimize the planning and effort required to produce program flowcharts. This documentation aid operates under the IBM Disk Operating System (DOS) and is intended to minimize the planning and effort required to produce and maintain program documentation.

It enables the user to:

1. Produce clear, standardized, easily reproduced computer-generated flowcharts.
2. Keep flowcharts continually up to date.
3. Standardize flowcharting techniques.

This reference publication contains the specifications and detailed instructions for using the System/360 Flowchart program. The only prerequisite for reading it is a basic understanding of flowcharting.

GH20-0294

SYSTEM/360 FLOWCHART OPERATOR'S MANUAL  
PROGRAM NUMBER 360A-SE-22X  
The IBM System/360 Flowchart is a System/360 program designed to produce program flowcharts. This documentation aid operates under the IBM Disk Operating System (DOS) and is intended to minimize the planning and effort required to produce and maintain program documentation.

It gives the user the ability to:

1. Produce clear, standardized, easily reproduced computer-generated flowcharts.

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2. Keep flowcharts up to date continually.
3. Standardize flowcharting techniques.

This reference publication gives the specifications and detailed information for operating the System/360 Flowchart program. It contains the console operating instructions, job control card deck key, job control card details, halt and message list, a file and storage map, and restart procedures.

A knowledge of DOS operating procedures, including the use of job control card, is a prerequisite for reading and using this manual.

GH20-0297

SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM-OS (ATS/OS)  
(360A-CX-19X) APPLICATION DESCRIPTION MANUAL  
This system consists of control and functional programs that permit many different text-processing and data-handling activities to be carried on simultaneously through different typewriter terminals attached to an IBM System/360. Written to operate under OS/360, the Administrative Terminal System runs in a multiprogramming environment. It will run concurrently with and independently of other tasks in other partitions/regions.

This publication contains a general discussion of the features of the program, an indication of some of the areas in which it may be applied, and the machine configuration required. Three appendices are included dealing with data formats, core storage estimates, and communication line requirements.

GH20-0302

SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS)  
APPLICATION PROGRAM MANUAL - PROGRAM NUMBER 360A-UH-11X  
The Shared Hospital Accounting System (SHAS) provides hospital accounting for a multiple hospital environment. The participating hospitals are connected to the central System/360 facility by teleprocessing terminals. SHAS consists of application programs and a supervisory and teleprocessing executive. The application programs are patient billing, accounts receivable, and general ledger including allocation for Medicare. Accounting for both inpatients and outpatients is provided. SHAS determines Medicare insurance prorations, facilitating the preparation of Medicare inpatient and outpatient billing forms.

GH20-0304

GENERAL PURPOSE SIMULATION SYSTEM/360  
INTRODUCTORY USER'S MANUAL  
PROGRAM NUMBERS 360A-CS-17X, 360A-CS-19X  
This publication provides a basic introduction to the use of the General Purpose Simulation System/360 (GPSS/360). It is written for those individuals who have not had previous simulation experience.

Examples are given throughout the manual to emphasize the basic features of the GPSS/360 program. A complete and detailed description of all the GPSS/360 features may be found in the GPSS/360 User's Manual (H20-0326). Readers are advised to obtain a copy of the User's Manual when they begin to write more sophisticated models.

The information presented in this manual should enable most readers to apply the program intelligently within a short period of time.

GH20-0305

SYSTEM/360 ON LINE TELLER PROGRAM WITH BACKGROUND PROCESSING  
CAPABILITY (PROGRAM NUMBER 360A-FB-16X) PROGRAMMER'S MANUAL  
This program furnishes System/360 programming support for 1060 systems and minimizes expenses in installing and maintaining teller terminal complexes. This manual presents the program logic and data definitions for the program. It enables a user to plan modifications to the program to suit his own requirements.

GH20-0309

SYSTEM/360 APT NUMERICAL CONTROL PROCESSOR VERSION 4  
PART PROGRAMMING MANUAL PROGRAM NUMBER 360A-CN-10X  
This program has been developed to span the gap between the engineering drawing and the machine tool control system. This manual describes APT (Automatic Programmed Tool), a programming system that uses an English-like language to describe a part shown as an engineering drawing. The statements are keypunched into cards, converted by the APT processor into an intermediate format, and then converted to instructions that can be read by the machine tool controller.

GH20-0311

GENERAL PURPOSE SIMULATION (360A-CS-17X) SYSTEM/360-OS =  
OPERATOR'S MANUAL  
This publication contains information that will enable the user to link-edit and incorporate the GPSS/360 program

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into a system for subsequent execution under the control of OS/360. Detailed examples are given for editing the GPSS/360 program into a private JOBLIB or the OS/360 SYS.LINKLIB; several other examples illustrate the OS/360 cards required to execute models that use various features provided by GPSS/360.

The Operator's Manual describes and illustrates a method (REALLOCATION) whereby the user can reallocate the quantity of GPSS/360 entities and effectively use all available core on a given machine. The various data sets required by GPSS/360 are also listed and described.

GH20-0314

SYSTEM/360 DATA CONVERSION UTILITY II, VERSION 3 (DIRECT ACCESS INDEXED SEQUENTIAL) - OPERATOR'S MANUAL (360A-SE-20X)

This program will be useful in converting IBM 705/1410/7010/7044/7070/7074/7080/7090/7094 card, tape, and DASD data files to System/360 tape or DASD data sets.

This manual presents a program setup sheet, console operating instructions, and a message list.

GH20-0315

IBM SYSTEM/360 DOCUMENT PROCESSING SYSTEM (360A-CX-12X) APPLICATION DESCRIPTION

The System/360 Document Processing System operates under the control of Operating System/360, processing narrative and bibliographic data into a set of interrelated data sets. These data sets can then be searched for Boolean combinations of keywords. Various elements of the data sets can be manipulated by a set of special utilities to produce various forms of indexes.

Without limiting the system to a specific application, because no such limit exists, this manual surveys the operational concepts and capabilities of System/360 Document Processing. Routines within the system are written in the OS/360 Assembler language and require no further coding on the part of the system user.

GH20-0318

CUSTOMER INFORMATION CONTROL SYSTEM DOS-ENTRY (CICS/DOSE), PROGRAM NUMBER 5736-XX6, DOS-STANDARD (CICS/DOSS), PROGRAM NUMBER 5736-XX7, OS-STANDARD (CICS/OS), PROGRAM NUMBER 5736-011, APPLICATION DESCRIPTION

The IBM Customer Information Control System is a program modularly constructed and designed to assist customers in the installation of on-line information systems. It functions as an interface program between user-written processing programs and the IBM System/360 Operating System (OS/360); the control system with the user-written programs and OS/360 comprise an information system. Through a series of macro instructions, the user invokes the facilities of the IBM Customer Information Control System.

This manual describes the IBM basic Customer Information Control System Program Product and the Language/Terminal (L/T) Feature. The Language/Terminal (L/T) Feature is separately licensed and provides:

1. PL/I - COBOL Interface
2. Extended Terminal Support for
  - a. 1030 Data Collection System
  - b. 2741 Communications Terminal
  - c. Binary Synchronous Communication support for System/360, System/360 Model 20, 1130 Computing System, and 2780 Data Transmission Terminal
  - d. Dial-up Support Switched line support for 2740 Communications Terminal Model 1, 2741 Communications Terminal, and 1050 Data Communication System.

GH20-0319

SYSTEM/360 DATA CONVERSION AND LABEL PROCESSING SUBROUTINES, VERSION 2 PROGRAM REFERENCE MANUAL (360A-SE-23X)

This manual contains a description of a set of subroutines that may be used in converting data files from current system formats to System/360 formats and vice versa. The subroutines available for processing current system data file formats are listed and described. Also, the use of the subroutines is shown by example.

GH20-0321

IBM SYSTEM/360 AND SYSTEM/370 ATTACHED SUPPORT PROCESSOR SYSTEM (ASP) VERSION 2 CONSOLE OPERATOR'S MANUAL PROGRAM NUMBER 360A-CX-15X

This manual contains instructions that will permit the console operator to operate the ASP system. ASP console operation is identical in most respects to IBM System/360 console operation. Therefore, to avoid repetition of documentation, the material in this manual has been prepared on the assumption that the operator is familiar with IBM System/360 operation. Details concerning System/360 operations are found in IBM System/360 Operating System,

Operator's Guide (GC28-6540), and in its prerequisite and recommended publications. If the 709X Emulator is to be used, the ASP operator should also be familiar with IBM System/360 -- Conversion Aids -- 709/7090/7094/7094II Emulator Program (GC28-6565).

GH20-0322

IBM SYSTEM/360 AND SYSTEM/370 ATTACHED SUPPORT PROCESSOR SYSTEM (ASP) VERSION 2, APPLICATION PROGRAMMER'S MANUAL PROGRAM NUMBER 360A-CX-15X

The Attached Support Processor (ASP) system is an operating system that provides a compatible extension to Operating System/360 (OS/360). Designed primarily for the commercial and scientific customer with a computer job shop environment, ASP provides for increased automation of the computing operation. The ASP system operates as a programmed operator of OS/360, providing an operational interface for controlling the system job stream, and thus optimizing the use of the computer's resources.

This manual contains detailed information concerning system concepts, programming considerations, control cards, deck setup, and output. OS/360 is the primary operating system used for ASP; therefore, to avoid repetition of documentation, the material in this manual has been prepared on the assumption that the programmer is familiar with OS/360 programming. Details of OS/360 utilization are found in IBM Operating System/360 Job Control Language, System Reference Library (GC28-6539), and in its prerequisite and recommended publications.

GH20-0323

IBM SYSTEM/360 AND SYSTEM/370 ATTACHED SUPPORT PROCESSOR SYSTEM (ASP) VERSION 2, SYSTEM PROGRAMMER'S MANUAL PROGRAM NUMBER 360A-CX-15X

The Attached Support Processor (ASP) system is an operating system that provides a compatible extension to Operating System/360 (OS/360). Designed primarily for the commercial and scientific customer with a computer job shop environment, ASP provides for increased automation of the computing operation. The ASP system operates as a programmed operator of OS/360, providing an operational interface for controlling the system job stream, and thus optimizing the use of the computer's resources.

This manual contains detailed information concerning the internal operations of the ASP system and includes a functional description, instructions for writing Dynamic Support Programs and for generating the system, and a description of modifications to OS/360 and 709X Emulator programs.

GH20-0325

SYSTEM/360 ONLINE TELLER PROGRAM WITH BACKGROUND PROCESSING CAPABILITY (PROGRAM NUMBER 360A-FB-16X) OPERATOR'S MANUAL

This manual includes operating procedures for the Online Teller Program as well as the Conversion, Reorganization, and Control Pack Setup programs. It also contains a discussion of testing aids.

GH20-0326

GENERAL PURPOSE SIMULATION SYSTEM/360 USER'S MANUAL

This publication is an extension and amplification of the GPSS/360 Introductory User's Manual (H20-0304-0). It provides a detailed description and explanation of the component parts and operation of the GPSS/360 program. Examples illustrating the uses of GPSS/360 are given in appropriate sections of the manual. This manual should enable the reader to construct and simulate models using the full capabilities of GPSS/360.

GH20-0327

GENERAL PURPOSE SIMULATION SYSTEM/360, DISK OPERATING SYSTEM (360A-CS-19X) OPERATOR'S MANUAL

This publication contains information that will enable the user to link-edit and incorporate the GPSS/360 program into a system for subsequent execution under the control of DOS/360.

A method (REALLOCATION) whereby the user can reallocate the quantity of GPSS/360 entities and effectively use all available core on a given machine is described and illustrated. The various data sets required by GPSS/360 are also listed and described.

GH20-0329

SYSTEM/360 PRODUCT STRUCTURE RETRIEVAL PROGRAM APPLICATION DESCRIPTION PROGRAM NUMBER 360A-NE-87X

The IBM System/360 Product Structure Retrieval Program is an implementation package used to retrieve product structure records created and maintained by the System/360 Bill of Material Processor Program (360A-NE-06X). The package will contain (1) generalized programs to retrieve product structure records, (2) flexible user report formats, and (3) logic diagrams explaining the retrieval and use of the

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information in manufacturing applications.

This manual contains a general description of the application, the machine configuration, general systems charts, and a discussion of input/output files.

GH20-0331

SYSTEM/360 APT NUMERICAL CONTROL PROCESSOR  
(360A-CN-10X) VERSION 4 OPERATIONS MANUAL

This manual provides suggested processor generation and maintenance techniques, program setup instructions, console operating instructions, halts and error messages, storage map, and restart procedures.

GH20-0344

PROJECT MANAGEMENT SYSTEM/360 (360A-CP-04X) VERSION 2  
PROGRAM DESCRIPTION AND OPERATIONS MANUAL

This manual provides a detailed description of the three component parts of PMS/360: the Network Processor, the Cost Processor, and the Report Processor. It provides in detail the format of input required, the methods of calculation followed, and an explanation of the output generated by each processor. It also defines OS/360 Job Control cards required to run the three processors.

This manual will enable the user to perform critical path analysis as well as PERT and PERT/Cost analyses.

GH20-0346

SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR DOS/360  
USER'S MANUAL (360A-SE-32X)

This publication describes the Synchronous Transmit-Receive Access Method for DOS/360. The STR access method provides macro instructions and routines to support STR transmission under program control. The macro instructions are described for the following functions:

1. Environment definition
2. Line control
3. Data transmission
4. Code conversion

In addition, the STR error messages are described and a macro instruction summary is given.

Prerequisites are:

- A basic knowledge of System/360 machine concepts.
- A basic knowledge of DOS/360.
- A knowledge of the principles of STR data transmission.

GH20-0347

SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR DOS/360  
OPERATOR'S MANUAL (360A-SE-32X)

This publication describes the operator actions when using the Synchronous Transmit-Receive Access Method for DOS/360. Topics include establishing a data line, error messages, and maintenance.

GH20-0349

SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR OS/360 USER'S  
MANUAL (360A-SE-33X)

This publication describes the Synchronous Transmit-Receive Access Method for OS/360. The STR Access Method provides macro instructions and routines to support STR transmission under program control. The macro instructions are described for the following functions:

1. Environment definition
2. Line control
3. Data transmission
4. Buffer management
5. Code conversion

In addition, the STR error messages are described and a macro instruction summary is given. Prerequisites are: a basic knowledge of System/360 machine concepts, a basic knowledge of OS/360, and a knowledge of the principles of STR data transmission.

GH20-0350

SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR OS/360  
OPERATOR'S MANUAL (360A-SE-33X)

This publication describes the operator actions when using the Synchronous Transmit-Receive Access Method for OS/360. Topics include establishing a data line, error messages, and maintenance.

GH20-0352

1400 AUTOCODER TO COBOL CONVERSION AID PROGRAM - APPLICATION  
DESCRIPTION (360A-SE-19X)

This document provides information about the 1400 Autocoder to COBOL Conversion Aid Program (ACCAP) and its resulting COBOL programs. The information provided should enable the user to evaluate ACCAP for his installation before its use.

The manual contains a general description of ACCAP, a discussion of the overall program conversion process, and some testing experiences with the program.

GH20-0354

SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM (RAX)  
(360A-CX-17X) VERSION 4 PROGRAM DESCRIPTION MANUAL

This publication provides the information necessary to use the IBM System/360 Remote Access Computing System (RAX). It contains a description of the system, which provides concurrent access to a System/360 Model 30, 40, or 50, for up to 63 communications terminals. This system provides for the compilation and execution of Basic FORTRAN IV and Basic Assembler Language programs and the maintenance of program and data files in a library structure.

GH20-0355

SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM (RAX)  
(360A-CX-17X) VERSION 3 OPERATIONS MANUAL

This publication provides the System/360 machine operator with detailed instructions for starting, running, and stopping the Remote Access Computing System (RAX). It includes machine requirements, description of online messages and their meanings, and restart procedures. This manual also includes the procedures required for system generation and library maintenance.

GH20-0367

SYSTEM/360 CONTINUOUS SYSTEM MODELING PROGRAM (360A-CX-16X)  
USER'S MANUAL

This is an IBM System/360 program for the simulation of continuous systems. It provides an application-oriented input language that accepts problems expressed in the form of either an analog block diagram or a system of ordinary differential equations. Data input and output are facilitated by application-oriented control statements.

This manual contains a general description of the program, detailed programming information and a description of the inputs and outputs.

GH20-0368

SYSTEM/360 CONTINUOUS SYSTEM MODELING PROGRAM (360A-CX-16X)  
OPERATIONS MANUAL

This is an IBM System/360 program for the simulation of continuous systems. It provides an application-oriented input language that accepts problems expressed in the form of either an analog block diagram or a system of ordinary differential equations.

This manual contains information and procedures that will enable the user to incorporate the System/360 Continuous System Modeling Program into an Operating System/360 library; to include a procedure in the Operating System/360 procedure library (OS/360 SYS1.PROCLIB); and subsequently to execute S/360 CSMP under the control of, and using the services of, OS/360.

GH20-0369

SYSTEM/360 PRODUCT STRUCTURE RETRIEVAL PROGRAM  
(360A-ME-07X) PROGRAMMER'S MANUAL

The program provides manufacturing organizations with easy-to-modify routines that retrieve records or a series of records which have been organized and maintained by the Bill of Material Processor Program (360A-ME-06X).

Six types of retrieval reports are included with this program. They are:

- Single Level Explosion
- Indented Explosion
- Summarized Explosion
- Single Level Implosion
- Indented Implosion
- Summarized Implosion

This program is designed to run under IBM Basic Operating System/360 or IBM Disk Operating System/360.

GH20-0370

SYSTEM/360 PRODUCT STRUCTURE RETRIEVAL PROGRAM  
(360A-ME-07X) OPERATOR'S MANUAL

The program provides manufacturing organizations with easy-to-modify routines that retrieve records or a series of records which have been organized and maintained by the Bill of Material Processor Program (360A-ME-06X). Six types of retrieval reports are included with this program.

They are:

- Single Level Explosion
- Indented Explosion
- Summarized Explosion
- Single Level Implosion
- Indented Implosion
- Summarized Implosion

This program is designed to run under IBM Basic Operating System/360 or IBM Disk Operating System/360.

GH20-0372

MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X) VERSION 2  
READ COMMUNICATIONS FORMAT (READCOMM)  
PROGRAM REFERENCE MANUAL

This manual provides the system user with the information

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- necessary to use the Read Communications Format (READCOMM) feature of MPS/360. READCOMM is a subroutine that enables the user to augment MPS/360 with procedures written in the FORTRAN language.
- This manual assumes that the user is familiar with the MPS/360 Application Description (GH20-0136), the MPS/360 Control Language User's Manual (GH20-0290), the MPS/360 Linear Programming User's Manual (GH20-2091), and the FORTRAN programming language.
- GH20-0373  
S/360 AUTOSPOT (360A-CN-08X) AND AD-APT/AUTOSPOT (360A-CN-09X) NUMERICAL CONTROL PROCESSORS-VERSION 2 PART PROGRAMMING MANUAL  
This program is designed to implement computer preparation of input to machine tool controllers for point-to-point operations and simple milling operations. Significant time savings can be realized when this technique is used in place of tedious manual methods.
- The AUTOSPOT Numerical Control Processor is an interpreter for calculating machine tool coordinates required to perform point-to-point and simple milling operations defined in a "part program".
- The processor is written in System/360 Assembly Language and operates under the Disk Operating System.
- GH20-0374  
S/360 AUTOSPOT (360A-CN-08X) AND AD-APT/AUTOSPOT (360A-CN-09X) NUMERICAL CONTROL PROCESSORS-VERSION 2 OPERATOR'S MANUAL  
This program is designed to implement computer preparation of input to machine tool controllers for point-to-point operations and simple milling operations. Significant time savings can be realized when this technique is used in place of tedious manual methods.
- The AUTOSPOT Numerical Control Processor is an interpreter for calculating machine tool coordinates required to perform point-to-point and simple milling operations defined in a "part program".
- The processor is written in System/360 Assembly Language and operates under the Disk Operating System.
- GH20-0375  
SYSTEM/360 AD-APT/AUTOSPOT NUMERICAL CONTROL PROCESSOR (360A-CN-09X) VERSION 2 PART PROGRAMMING MANUAL  
The IBM N/C 360 adaptation of APT for small computers (AD-APT) uses a symbolic language to simplify the preparation of instructions for numerically controlled machined tools. The AD-APT processor prepares intermediate data for a user-written postprocessor program.
- This manual contains the definition and examples of the AD-APT symbolic language.
- GH20-0376  
PROJECT CONTROL SYSTEM/360 (360A-CP-06X) VERSION 2 PROGRAM DESCRIPTION AND OPERATIONS MANUAL  
The Project Control System serves as the data processing element of a system that helps management carry out its functions of planning and supervising projects, within a broader environment of operations and procedures. Although designed primarily for those areas of government and industry concerned with construction, repair, or maintenance, the system will meet the critical path requirements of a broad range of users, irrespective of industry. It will process data from networks planned in either precedence-diagramming or arrow-diagramming methods. The system consists of a set of routines stored on disk. The sequence of processing and system outputs is controlled by the system control card, the type of input data to be processed, and the output report requests submitted at run time. Output reports include schedule listings, bar charts, and basic resource and cost summarization reports. Updating capability is provided for network restructuring as well as progress reporting for in-process work items.
- GH20-0462  
S/360 AUTOSPOT (360A-CN-09X) AND AD-APT/AUTOSPOT (360A-CN-09X) NUMERICAL CONTROL PROCESSOR VERSION 2 APPLICATION DESCRIPTION  
This program is designed to implement computer preparation of input to machine tool controllers for point-to-point operations and simple milling operations. Significant time savings can be realized when this technique is used in place of tedious manual methods.
- The AUTOSPOT Numerical Control Processor is an interpreter for calculating machine tool coordinates required to perform point-to-point and simple milling operations defined in a "part program".
- The processor is written in System/360 Assembly Language and operates under the Disk Operating System.
- GH20-0463  
SYSTEM/360 AD-APT/AUTOSPOT NUMERICAL CONTROL PROCESSOR (360A-CN-09X) APPLICATION DESCRIPTION  
The IBM N/C 360 adaptation of APT for small computers (AD-APT) uses a symbolic language to simplify the preparation of instructions for numerically controlled machine tools. The AD-APT processor prepares intermediate data for a user-written postprocessor program.
- GH20-0464  
IBM SYSTEM/360 VEHICLE SCHEDULING PROGRAM (360A-ST-06X) APPLICATION DESCRIPTION  
This publication describes the general capabilities of the IBM System/360 Vehicle Scheduling Program and explains some of the many uses of this approach.
- The Vehicle Scheduling Program determines the route that a group of vehicles must travel in order to meet certain commitments in the delivery of service or products to a collection of given destinations. The result is a feasible schedule representing a good balance of basic variables, such as travel time, and number of vehicles used. The program analyzes a network representing the potential calling points and computes either actual or approximate distances between all points. A schedule is then produced with adherence to restrictions such as route-time, speed, vehicle capacity, and customer requirements.
- GH20-0471  
SYSTEM/360 INVENTORY CONTROL APPLICATION DESCRIPTION  
The IBM inventory control application consists of a group of integrated programs and techniques designed for the selection and implementation of order point inventory control where it applies in manufacturing organizations.
- The programs provide for (1) classification of inventory items for determining the type of control, (2) calculation of economic order quantities on the basis of usage information or future requirements, (3) computation of safety stock and order point, (4) projection of demand on the basis of historical data and (5) basic programs for transaction processing and report preparation.
- This manual includes a general description of these programs, the machine configuration, general systems charts, sample reports, and a discussion of inventory control concepts applicable to the use of the programs.
- GH20-0476  
MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X) LINEAR AND SEPARABLE PROGRAMMING - USER'S MANUAL  
This manual provides the system user with the information required to prepare input data and control cards and to interpret the system's output. It is a basic reference document for any user interested in the problems with which the system can help him. All procedures are fully explained in this manual.
- GH20-0477  
IBM SYSTEM/360 DOCUMENT PROCESSING SYSTEM (360A-CX-12X) PROGRAM DESCRIPTION AND OPERATIONS MANUAL  
The System/360 Document Processing System is a set of programs designed to convert machine-readable document data into a set of searchable data sets, to search these data sets, and to produce various index listings. The system operates under the control of the System/360 Operating System.
- This manual generally expresses the intent and content of an operations manual and a programming manual. Part 1 of the manual contains descriptive program information and specifications; Part 2 contains detailed operational instructions. A prerequisite to reading portions of this manual is a basic understanding of the 360 Operating System Job Control Language.
- GH20-0479  
SYSTEM/360 MATRIX LANGUAGE (MATLAN) (360A-CM-05X) APPLICATION DESCRIPTION  
MATLAN is a programming system that is designed to simplify handling of and computation with matrices. This publication describes the MATLAN language and its general capabilities.
- Matrices may consist of real or complex, single- or double-precision numbers. Segmenting algorithms are used if the storage requirements of the matrices exceed available core size.
- MATLAN is useful in many scientific and technical applications. It is of special interest in the aerospace industry, as well as in electrical and civil engineering mathematical statistics, and econometrics.
- GH20-0480  
IBM RETAIL IMPACT FASHION SYSTEM UNDER OPERATING SYSTEM/360 (360A-DR-04X) - PROGRAM DESCRIPTION MANUAL  
The IBM Retail IMPACT Fashion System consists of programs and procedures designed to provide the retailer with timely and accurate information for fashion merchandising. The

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- system provides reorder recommendations, return recommendations, and other action reports to assist the fashion merchandiser in responding to changes in the volatile fashion market.
- This manual describes the concepts, characteristics, and implementation of the Fashion System. Operational controls, report interpretation, and complete file specifications are included. The programs are described conceptually and specifically. Input, output, and processing information are included along with program modification aids. This manual provides the information and guidance necessary for planning and installation of the system.
- GH20-0481  
RETAIL IMPACT FASHION SYSTEM UNDER OPERATING SYSTEM/360 (360A-DR-04X) - OPERATIONS MANUAL  
This manual provides instructions and guidance for operating the programs in the IBM Retail IMPACT Fashion System. The major components of the manual describe (1) preparatory information and procedures, (2) operations, and (3) retrieving the programs from the distribution tape, preparing the system, and running the sample problem.
- GH20-0483  
ADVANCED LIFE INFORMATION SYSTEM (DOS) POLICY MASTER RECORD CODE BOOK  
PROGRAM NUMBER 5736-N11  
This policy master record code book describes every section and trailer of the policy master record, each field in every section and trailer, and the codes and values applicable to each field. There is a table of contents at the beginning of the manual and one for each section and trailer. The table of contents at the beginning of the manual identifies only the location of sections and trailers. The table at the beginning of each section or trailer indicates the location of each field.
- GH20-0487  
SYSTEM/360 REQUIREMENTS PLANNING APPLICATION DESCRIPTION  
PROGRAM NUMBER 360A-MF-05X  
A manufacturing organization requires that all parts, both manufactured and purchased, be available to meet production schedules demanded by finished product due dates, and that a sufficient quantity be available to satisfy demand. Manufacturing also must be able to adjust those requirements quickly to react suitably and in time to forecast any customer order changes. In addition, there is a need to maintain inventories at an optimum level so as not to incur the costs of obsolescence, unneeded warehouse space, unnecessary inventory, insurance, and purchase charges.
- IBM System/360 Requirements Planning is designed to meet these needs. The system is capable of:
- Determining net finished product requirements
  - Determining net component part requirements
  - Planning economic lot size or order quantities
  - Offsetting requirements by considering lead times
  - Maintaining and updating the requirements plan by processing changes to forecasts and orders (referred to as "requirements alterations")
  - Providing for review of planned orders at the end of each level; "interrupt" and adjustment of these planned orders; "reentry" (referred to as "conversational planning")
  - Providing for management review through detailed requirements reports and exception notices
- GH20-0489  
PROGRAM FOR OPTICAL SYSTEM DESIGN/II (POSD/II) APPLICATION DESCRIPTION  
PROGRAM NUMBER 1130-EO-14X  
POSD/II consists of an interrelated set of programs providing a complete and flexible facility for the geometric analysis of image-forming optical systems, together with a means for automatically correcting such systems. Particular emphasis has been placed on creating an efficient man-machine relationship. The evaluation techniques available to the designer encompass both ray tracing and third- and fifth-order aberration analysis with ray-tracing speeds in the order of 1/10 second per ray surface. The program has the capacity to analyze systems containing prisms, toric surfaces, and diffraction gratings, in addition to the usual refracting or reflecting elements.
- POSD/II is an extension of 1130 POSD (1130-EO-11X and 1130-EO-12X) with increased operating speeds and additional program capabilities. Two new POSD/II programs are provided to operate under the IBM Problem Language Analyzer (PLAN\*) program to support both the 1130 system and System/360. Additional utility features are incorporated to provide greater flexibility for the user. Significant improvements, such as provision for varying glasses, broaden the scope of the automatic design program.
- POSD/II utilizes input formats and operating procedures identical to 1130 POSD.
- PLAN operates as a submonitor providing simplified user modification of programs and design languages.
- GH20-0490  
PROBLEM LANGUAGE ANALYZER (PLAN) APPLICATION DESCRIPTION  
PROGRAM NUMBERS 1130-CX-25X 360A-CX-26X 360A-CX-27X  
This manual provides a description of the scope and purpose of the Problem Language Analyzer. It allows the reader to measure the applicability of this system to the solution of his problems and provides a description of the PLAN approach to modular problem solution.
- GH20-0492  
SYSTEM/360 DECISION LOGIC TRANSLATOR  
APPLICATION DESCRIPTION  
PROGRAM NUMBER 360A-CX-32X  
The Decision Logic Translator is a program that accepts decision tables punched in cards in a prescribed format and translates these tables into a FORTRAN program. The FORTRAN source program is punched in cards or stored on disk or tape ready for compilation.
- This manual describes the format of the input decision tables, features of the Decision Logic Translator, and program output.
- GH20-0496  
MARVEL/360 (360A-CO-15X) PRIMER  
MARVEL is a language processor for the data preparation, matrix generation, output analysis, and management report writing functions associated with the Mathematical Programming System/360 (360A-CO-14X). MARVEL was designed and implemented to provide powerful functional capabilities in this fast growing area of mathematical programming. In providing such a comprehensive language and processor capability, "trade-offs" were made that reduced execution speed.
- MARVEL will provide maximum customer utility as an input/output system for the development of new linear programming applications, because this is an area where extended function is more significant than high performance. In a production environment where emphasis is on execution speed, MARVEL will be less suitable.
- This MARVEL language primer is designed to acquaint the reader with the basic notation employed in MARVEL. Further, by constructing a sample program, it is hoped to introduce the potential user to a variety of MARVEL statements. The discussion of statements in the primer is limited to those features of each statement that are applicable to the specific problem presented. Therefore, the reader should consult the S/360 MARVEL Program Description Manual where a comprehensive discussion of all MARVEL statements is provided.
- GH20-0497  
PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS)  
BASIC PROGRAM (360A-IF-10X) PROGRAM DESCRIPTION AND  
SYSTEM MANUAL  
This manual provides a description of the functions and logic of those programs and modules making up the PALIS Basic Program. All logic common to both the automobile, homeowners, and other lines processing has been grouped together in the PALIS Basic Program.
- GH20-0498  
PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS)  
BASIC PROGRAM (360A-IF-10X) OPERATIONS MANUAL  
This manual provides information for the generation and operation of PALIS under Disk Operating System/360 (DOS/360). It contains instructions for link editing the system, the console operating instructions, examples of job control decks, halt and message lists, storage diagrams, and restart procedures.
- A knowledge of DOS/360 operating procedures, including the use of job control cards, is a prerequisite for reading and using this manual.
- GH20-0499  
PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS)  
AUTOMOBILE PREMIUM PROCESSING PROGRAM DESCRIPTION AND  
SYSTEM MANUAL PROGRAM NUMBERS: 360A-IF-11X, 5736-N21  
The purpose of this manual is to describe the Property and Liability Information System insurance logic programs to rate and prepare a declarations sheet extract for both the family combination policies and the special automobile (single limit liability) policy for all 50 states (with the exception of Massachusetts), the District of Columbia and Puerto Rico. The rating plans supported are both the classification plan in effect prior to January 1, 1965 (henceforth referred to as the old class plan), and the new six-digit classification plan dated January 1, 1965, (henceforth known as the new class plan). Both plans will rate a maximum of four vehicles (including pickups, panels, sedan deliveries, and antiques), and five drivers per policy.

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- GH20-0500  
PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS)  
AUTOMOBILE CLAIMS PROCESSING (360A-IP-11X)  
PROGRAM DESCRIPTION AND SYSTEM MANUAL  
The purpose of this manual is to describe the Property and Liability Information System insurance logic for processing automobile claims. Open claim information, taking the place of the traditional outstanding loss file, is stored in detail. Transactions for an open claim are entered into the system along with premium transactions, and the automobile master record is updated with the new information. If all claims are closed, they are summarized at purge time and carried forward to the renewal policy. As with the premium data, closed cases are also retained for historical purposes.  
Premium and claims data for a policy are stored together so a historical picture of a risk experience available in one place. Thus, underwriters have information required for individual risk experience.  
Another significant portion of the PALIS approach to automobile claims is the processing of recoverable reinsurance. Excess reinsurance, if not input with the transaction, will be calculated by using the excess of loss reinsurance table. Other types of reinsurance applicable to a given coverage will be added into the calculated excess reinsurance recoverable.
- GH20-0501  
PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS)  
PROGRAM DESCRIPTION MANUAL  
PROGRAM NUMBERS 360A-IP-10X, 360A-IP-11X, 360A-IP-13X, 5736-N21  
This manual contains information relating to the concepts, inputs, and processing methods used in the Property and Liability Information System (PALIS). This manual provides the information required to understand the functions of PALIS and considerations for implementation of the system. It is designed as a guide to the user of other PALIS documentation and serves as pre-PALIS class.
- GH20-0503  
PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS)  
OTHER LINES PREMIUM PROCESSING (360A-IP-13X)  
PROGRAM DESCRIPTION AND SYSTEM PROCESSING  
The purpose of this manual is to describe the Property and Liability Information System other lines master record and the insurance logic necessary to accommodate the policy and premium information for single location risks in all lines of business normally written by a property and liability insurance company. While other lines policies are not rated by PALIS, they are maintained in historical fashion and contain detailed descriptive information and statistical data. The master record is designed to provide information on the status and history of all policies.
- GH20-0504  
PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS)  
OTHER LINES CLAIMS PROCESSING (360A-IP-13X)  
PROGRAM DESCRIPTION AND SYSTEM MANUAL  
The purpose of this manual is to describe the Property and Liability Information System other lines master record and the insurance logic necessary to accommodate the loss information for single locations risks in all lines of business normally written by a property and liability insurance company. Open claim information, taking the place of the traditional outstanding loss file, is stored in detail. Transactions for an open claim are entered into the system along with premium transactions, and the master record is updated with the new information. Statistical data is prepared as an output. In addition, closed claims are summarized a purge time and carried forward with the premium information. As with the premium data, closed cases are also retained for historical purposes.
- GH20-0505  
MARVEL/360 (360A-CO-15X) PROGRAM DESCRIPTION MANUAL  
This publication provides the information required to use the MARVEL programming language. It is a basic reference document for any user interested in the problems with which this system can help him. It is expected that the reader is thoroughly familiar with the contents of the MARVEL/360 Primer.  
MARVEL is a language processor for the data preparation, matrix generation, output analysis, and management report writing functions associated with the Mathematical Programming System/360 (360A-CO-14X). MARVEL was designed and implemented to provide powerful functional capabilities in this fast growing area of mathematical programming. In providing such a comprehensive language and processor capability, "trade-offs" were made that reduced execution speed.  
MARVEL will provide maximum customer utility as an input/output system for the development of new linear programming applications, because this is an area where extended function is more significant than high performance.
- In a production environment where emphasis is on execution speed, MARVEL will be less suitable.
- GH20-0506  
SYSTEM/360 VEHICLE SCHEDULING PROGRAM (360A-ST-06X) PROGRAM DESCRIPTION AND OPERATIONS MANUAL  
This manual contains specific information about the preparation for, the functions of, and the use of the IBM System/360 Vehicle Scheduling Program, as well as its operation under the IBM System/360 Disk Operating System. Detailed data preparation suggestions are explained under the program section to which they apply. The operations section contains a description of program setup and restart procedures, console operating instructions, and card layouts. In addition, the manual presents input/output descriptions, suggestions for option usage, lists of messages, and a sample problem.
- GH20-0507  
BIBLIOGRAPHY OF APPLICATION PUBLICATION FINANCE INDUSTRIES  
The purpose of this bibliography and the associated classification system is to list and categorize IBM application publications that are pertinent to finance and securities industries. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.  
As an aid to the reader, Section III lists promotional publications and Section IV lists field developed program availability notices pertinent to the finance and securities industries.  
A periodic Bibliography of Application Publications (BAP) Newsletter (GN20-2486) is published to keep the bibliography up to date.
- GH20-0508  
SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM DOS (ATS/DOS)  
(360A-CX-18X) PROGRAM DESCRIPTION MANUAL  
This manual may be used as a reference manual by application programmers that are concerned with the Administrative Terminal System, ATS/360 functioning under the IBM System/360 Disk Operating System (DOS). ATS/360 applications consist of control and functional programs that permit the simultaneous performance of many different text processing and data-handling activities on different terminals. This publication describes the principles and techniques of storage and real-time processing control for each of the programs that make up ATS/360, as well as information pertinent to their organization, scope, and planning for system applications and/or modifications to those applications. System generation procedures are also described and information regarding storage estimates and system timing is given.
- GH20-0509  
SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM DOS (ATS/DOS)  
(360A-CX-18X) TERMINAL OPERATOR'S MANUAL  
This manual contains procedures for operating the IBM Administrative Terminal System (ATS)/360. Operation consists of manipulating the keyboard on the IBM 2741 Communications Terminal to send commands to the computer, enter documents into the system for storage, and print documents which have been previously stored.  
Procedures are provided for using the terminal to send and receive messages in the form of documents from one terminal location to another, to transfer stored documents onto magnetic tape or punched cards, and to accomplish high-speed printing of stored documents at the computer center. Procedures are also included to bring documents into the system that are stored on punched cards and magnetic tape.  
The procedures are arranged so that the operator can begin with the most basic commands and immediately start using the terminal while progressing through the remaining text and examples to understand the operating principles.  
A summary is included at the end of some sections to provide a quick review for operators who only use the ATS/360 occasionally, or infrequently after exposure to the initial training period.  
Four appendices are included. Appendix A provides a listing of operator commands. Appendix B provides a listing of computer responses. Appendix C provides a glossary of terms that are used throughout the manual. Appendix D consists of punched card codes and reference data for entering special characters and hexadecimal values at the terminal.
- GH20-0510  
SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM DOS (ATS/DOS)  
(360A-CX-18X) APPLICATION DESCRIPTION  
This system consists of control and functional programs that permit many different text-processing and data-handling activities to be carried on simultaneously through different terminals attached to an IBM System/360. Written to operate under DOS/360, the Administrative Terminal System will

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- allow background programs to run concurrently with, and independently of, normal terminal operation.  
This publication contains a general discussion of the features of the program, an indication of some of the areas in which it may be applied, and the machine configuration required.
- GH20-0511  
SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM DOS (ATS/DOS) (360A-CX-18X) COMPUTER CENTER OPERATOR'S MANUAL  
This manual describes operating procedures for the IBM Administrative Terminal System, ATS/360. These procedures are designed for computer centers using the Disk Operating System (DOS) version of the IBM System/360 Model 30, 40, or 50P. ATS/360 computer centers using a different machine configuration may use this manual as a reference for establishing procedures for use with the system.  
These procedures are intended for the computer center operator or other personnel using the equipment during scheduled operating periods to set up the system for ATS/360 applications, maintain the real-time capability while the system is in use, and shut down the system to terminate ATS/360 operations.  
Any deviation from these procedures must be carefully considered to avoid introducing errors which could jeopardize the effectiveness of the system.  
Special handling instructions and other computer center (CC) operator duties are described for servicing the requests of remote terminal (RT) operators, maintaining the security of records, off-line machine operations for peripheral equipment, and error recovery techniques.  
The manual is divided into sections, each of which describes the overall system application, arrangement of equipment, and procedures for its use.
- GH20-0512  
MARVEL/360 (360A-CO-15X) OPERATIONS MANUAL  
This publication contains information that will enable the user to link-edit and incorporate the MARVEL/360 program into a system for subsequent execution under control of Mathematical Programming System/360. Detailed examples are given for editing the MARVEL/360 program into a private JOBLIB or the OS/360 SYSLINKLIB.
- GH20-0513  
LINEAR PROGRAMMING SYSTEM/360 (LPS/360) (360A-CO-18X) APPLICATION DESCRIPTION  
This program provides the System/360 Disk Operating System (DOS) user with a simple, easy-to-understand, and easy-to-use means of solving LP problems, and with a powerful tool for implementing other mathematical optimization applications.  
The system contains all the procedures necessary to solve an LP problem and to perform an extensive postoptimal analysis of the problem. The system provides extensive data generation and maintenance facilities.  
To solve an LP problem, these procedures are called into core storage by procedure control statements that define the processing sequence.  
This manual contains a description of the system, the required machine configuration, and limits on problem size.
- GH20-0517  
ADVANCED LIFE INFORMATION SYSTEM (ALIS) OPERATIONS MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual presents the information required to set up the Advanced Life Information System (ALIS) and to execute the ALIS programs. This system operates under the IBM System/360 Disk Operating System (DOS) and consists of a series of programs which are run in sequence. Suggestions on user program integration with the Advanced Life Information System are also made.
- GH20-0518  
ADVANCED LIFE INFORMATION SYSTEM (ALIS) PROGRAM DESCRIPTION MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual contains information relating to the concepts, inputs, outputs, and processing methods used in the Advanced Life Information System (ALIS). This manual (1) provides the reader with the information required to understand the functions of ALIS and considerations for implementation of the system, (2) is designed as a guide to the user of other ALIS documentation, and (3) serves as pre-ALIS class reading.
- GH20-0519  
ADVANCED LIFE INFORMATION SYSTEM (ALIS) UTILITY PROGRAM DESCRIPTION MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual provides general information about the utility
- programs supplied with the Advanced Life Information System. The user should be familiar with the Operations Manual (H20-0517) to gain the necessary supplementary information in order to include the utility programs on his library and to execute them.
- GH20-0521  
SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) APPLICATION DESCRIPTION MANUAL (PROGRAM NUMBER 5736-CX1)  
This manual surveys the operational concepts and system capabilities of the Generalized Information System (Basic). It provides an introduction to the language of GIS and describes the file organization and processing actions supported by GIS.  
The System/360 Generalized Information System (Basic) operates under control of the System/360 Operating System and supports a wide variety of applications by providing information handling capabilities against many typical data base organizations. As a system, GIS provides facilities for defining, maintaining, and retrieving data from user files under direction of the using installation and its personnel.
- GH20-0522  
BIBLIOGRAPHY OF APPLICATION PUBLICATIONS - DISTRIBUTION INDUSTRIES  
The purpose of this bibliography and the associated classification system is to list and categorize IBM application publications that are pertinent to distribution industries. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.  
A Periodic Bibliography of Application Publications (BAP) Newsletter (GN2-1853) is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I is an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the last published bibliography.
- GH20-0523  
SYSTEM/360 AD-APT/AUTOSPOT (OS) NUMERICAL CONTROL PROCESSOR APPLICATION DESCRIPTION (PROGRAM NUMBER 360A-CN-12X)  
AD-APT/AUTOSPOT is a symbolic language designed to simplify the preparation of instructions for numerically controlled machine tools. This manual provides an introduction to both the AD-APT and AUTOSPOT languages. Included are language structure and elements, and system configuration.  
This program will provide the OS/360 installation with the capability currently available in AD-APT/AUTOSPOT (360A-CN-09X) under DOS/360.
- GH20-0524  
INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360 (SYSTEM DESCRIPTION APPLICATION DESCRIPTION MANUAL (PROGRAM NUMBER 5736-CX3)  
The Information Management System/360 is an Operating System/360 processing program designed to facilitate the implementation of medium to large common data bases in a multiapplication environment. This environment is created to accommodate both online message processing and conventional batch processing, either separately or concurrently. The system permits the evolutionary expansion of data processing applications from a batch-only to a teleprocessing environment.  
This manual includes a general description of the system and its various facilities and programs, listings of typical and minimum configurations, and a sample application.
- GH20-0525  
SYSTEM/360 TEXT PROCESSOR - HYPHENATION/360 (360A-DP-07X), PROGRAM DESCRIPTION MANUAL  
HYPHENATION/360 provides division of words for text processing applications in which the addition of word syllables to align to meet justification requirements is preferable to forcing the line to end in a complete word. This hyphenation capability is provided in the form of a module that can be linked with a user's System/360 text-processing program or the COMPOSITION/360 component of the IBM System/360 Text Processor.  
Through program linkage the HYPHENATION/360 module accepts a word from the user's program and determines the division points. The word, with the division points indicated, is returned to the user's program, where the portion to be retained on the line can be selected on the basis of the user's graphic requirements.  
This publication contains processing descriptions, core and disk requirements, timing information, and detailed instructions for the use of the HYPHENATION/360 module and

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- its associated utility programs. A thorough understanding of the CALL, SAVE, and RETURN macros discussed in IBM SYSTEM/360 DOS SUPERVISOR AND INPUT/OUTPUT MACROS (C24 5037) is a prerequisite for reading this publication.
- GH20-0526  
SYSTEM/360 TEXT PROCESSOR - HYPHENATION/360 (360A-DE-07X), OPERATIONS MANUAL  
HYPHENATION/360 provides division of words for text processing applications in which the addition of word syllables to a line to meet justification requirements is preferable to forcing the line to end with a complete word. This hyphenation capability is provided in the form of a module that can be linked with a user's System/360 text-processing program or the COMPOSITION/360 module of the IBM System/360 Text Processor.  
Through program linkage HYPHENATION/360 accepts a word from the user's program and determines the division points. The word, with the division points indicated, is returned to the user's program, where the portion to be retained on the line can be selected on the basis of the user's graphic requirements.  
This publication contains detailed preparatory system procedures; operating instructions, error messages, and restart procedures for the component programs; and programming system and machine requirements.  
A knowledge of DOS operating procedures is a prerequisite for reading and using this manual.
- GH20-0527  
SYSTEM/360 1287 INPUT CONVERSION PROGRAM (360A-DR-07X), PROGRAM DESCRIPTION MANUAL  
This program consists of a Transaction Specification Compiler and an Operational Processor. The Compiler provides for the description of the format and processing logic to be applied to documents scanned by the IBM 1287 Optical Reader. The program module created by the Compiler is referenced by the Processor in order to convert the data from the documents to a conversion journal. This manual describes the general program logic, the input and output formats, and provides samples of each.
- GH20-0528  
SYSTEM/360 1287 INPUT CONVERSION PROGRAM (360A-DR-07X), OPERATIONS MANUAL  
The purpose of this manual is to provide the user with the information, instructions, and guidance necessary to:  
- Retrieve and prepare the programs for operation  
- Prepare to use the system  
- Operate the programs in the system
- GH20-0530  
BIBLIOGRAPHY OF APPLICATION PUBLICATIONS, PUBLIC UTILITY INDUSTRIES  
The purpose of this bibliography and the associated classification system is to list and categorize IBM application publications that are pertinent to the telephone, and gas and electric industries. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.  
A periodic Bibliography of Application Publications (BAP) Newsletter (GN20-1866) is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I is an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the last published bibliography.
- GH20-0531  
BIBLIOGRAPHY OF APPLICATION PUBLICATIONS - MEDIA INDUSTRIES  
The purpose of this bibliography and the associated classification system is to list and categorize IBM application publications that are pertinent to media industries. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.  
A periodic Bibliography of Application Publications (BAP) Newsletter (GN20-1867) is published to keep the bibliography up to date.  
As an aid to the reader, Section III lists promotional publications, Section IV lists field developed programs, and Section V lists installed user programs pertinent to media industries.  
A periodic Bibliography of Application Publications (BAP) Newsletter (GN20-1867) is published to keep the bibliography up to date.
- GH20-0532  
SYSTEM/360 POWER SYSTEM PLANNING (PCP) FOR THE ELECTRIC UTILITY INDUSTRY PROGRAM NUMBER 5736-U12  
The Power System Planning (PSP) Program Product package is designed specifically for the IBM System/360. The package uses disk storage to provide the capability of establishing a master data bank of repetitively used engineering data which describes an electrical network. The package further provides the convenience of automatic data retrieval from the master data bank, whenever a simulation program is to be run. In order to study the steady state and transient operational characteristics of present and projected interconnected power networks, three digital simulation programs are included in the package: Power Flow, Short Circuit and Transient Stability. This manual contains a general description of the package, the machine configuration required, general system flowcharts, and descriptive narratives of the four components included in the package.
- GH20-0533  
SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS) (360A-UH-11X), PROGRAM DESCRIPTION MANUAL  
The Shared Hospital Accounting System (SHAS) provides hospital accounting for a multiple-hospital environment. The participating hospitals are connected to the central System/360 facility by teleprocessing terminals. SHAS consists of application programs and a teleprocessing executive. The application programs are patient billing, accounts receivable, and general ledger including accounting for both inpatients and outpatients. This manual refers to the accounts receivable portion of SHAS. References to teleprocessing and other applications have been minimized but still may be present to be consistent with subsequent manuals dealing with the entire system.  
This basic publication provides information on the Shared Hospital Accounting System program to enable the user to understand the function of all of the SHAS programs as a guide for preparing to install SHAS.  
This document is written as a reference manual and not as a study text. For education purposes this manual should be used in conjunction with the SHAS APPLICATION DESCRIPTION Manual (GH20-0532) and the SHAS Operations Manual (GH20-0534).  
The organization is such that the reader can easily find in-depth information on what the program does for the user. It also helps the user connect that information with the programs through the use of program references, COBOL tags, and modular descriptions following modular programs. The user can turn to a given program description and find the information immediately without having to read the entire section, and can easily relate the information directly to the program and the code.  
This manual is written for systems engineers or programmers with a thorough understanding of DOS, COBOL, and System/360 Basic Assembler Language.
- GH20-0534  
SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS) (360A-UH-11X), APPLICATION PROGRAM MANUAL  
The Shared Hospital Accounting System (SHAS) provides hospital accounting for a multiple-hospital environment. The participating hospitals are connected to the central System/360 facility by teleprocessing terminals. SHAS consists of application programs and a teleprocessing executive. The application programs are patient billing, accounts receivable, and general ledger including accounting for both inpatients and outpatients. This manual refers to the accounts receivable portion of SHAS. References to teleprocessing and other applications have been minimized but still may be present to be consistent with subsequent manuals dealing with the entire system.  
This basic publication gives the specifications and necessary information for operating the SHAS programs. This manual includes a description of retrieving data from distributed machine readable material and cataloging programs in the users core image library. Use of this manual requires an operating knowledge of the IBM Disk Operating System (DOS) job control cards and operating procedures.
- GH20-0535  
PLAN GRAPHICS SUPPORT FOR THE IBM 2250 APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 360A-CX-26X  
PLAN Graphics Support is designed to drastically reduce the time required to convert existing applications or create new applications for graphic displays. This system supports Models 1, 3, and 4 of the IBM 2250 Display Unit.  
With PLAN Graphics Support, the application programmer works at a level where he is relieved from tedious graphic programming. High-level statements allow the application programmer to simply state the format, content, and control options that are desired by the console operator (the application user). By means of user-oriented statements,

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the application programmer may rapidly extend his existing application program or create new applications to include interactive graphic capability.

Among the graphic interface features supported are:

- Graphic Output
- Data generated by the application may be displayed using points, characters, vectors, or geometric shapes.
- Graphic Input
- Data may be created or modified at the console and passed to the application via the Light Pen, Programmed Function Keyboard, and Alphameric Keyboard.
- Monitoring and Control
- Intermediate results can be examined in an application. The console user dynamically controls the next function of the application program to be executed.

PLAN (Problem Language Analyzer), a Type II program, is used as a base for PLAN Graphics Support. Since it coexists with PLAN, the user has access to all of the functional capability in PLAN. PLAN Graphics Support and PLAN support both the IBM 1130 and System/360.

GH20-0536

BIBLIOGRAPHY OF APPLICATION PUBLICATIONS INSURANCE INDUSTRY  
The purpose of this bibliography and the associated classification systems is to list and categorize IBM application publications that are pertinent to the insurance industry. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.

A periodic Bibliography of Application Publications (BAP) newsletter (GH20-1869) is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I is an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the last published bibliography.

GH20-0539

GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (GATD) APPLICATION DESCRIPTION MANUAL (5734-XX2)

Graphic Analysis of Three-Dimensional Data (GATD) is an application system built around the IBM 2250 Display Unit that allows online analysis of three-dimensional data. GATD operates in conjunction with Operating System/360, Problem Language Analyzer (PLAN), and PLAN Graphics Support (PGS).

This manual gives an overview of the functional capabilities of GATD and provides an example of system usage.

GH20-0540

RETAIL IMPACT FASHION SYSTEM UNDER DISK OPERATING SYSTEM/360 (360A-DR-001) PROGRAM DESCRIPTION MANUAL

The IBM Retail IMPACT Fashion System consists of programs and procedures designed to provide the retailer with timely and accurate information for merchandising. The system provides reorder recommendations, return recommendations, and other action reports to assist the fashion merchandiser in responding to changes in the volatile fashion market. This manual describes the concepts, characteristics, and implementation of the Fashion System. Operational controls, report interpretation, and complete file specifications are included. The programs are described conceptually and specifically. Input, output, and processing information is included along with program modification aids. This manual provides the information and guidance necessary for planning and installation of the system.

GH20-0541

RETAIL IMPACT FASHION SYSTEM UNDER DISK OPERATING SYSTEM/360 (360A-DR-001), OPERATIONS MANUAL

This manual provides instructions and guidance for operating the programs in the IBM Retail IMPACT Fashion System. The major components of the manual describe (1) preparatory information and procedures, (2) operations, and (3) retrieving the programs from the distribution tape, preparing the system, and running the sample problem.

GH20-0544

SYSTEM/360 SCIENTIFIC SUBROUTINE PACKAGE (PL/I) (360A-CF-071) APPLICATION DESCRIPTION MANUAL

The System/360 Scientific Subroutine Package (SSP) (PL/I) is a collection of mathematical and statistical subroutines (or procedures) written in the PL/I language. It provides the PL/I user with most of the basic capabilities in earlier FORTRAN versions of SSP/360. It also has the same basic characteristics as the FORTRAN versions, in that it consists of input/output-free computational building blocks written completely in PL/I, which may be combined with a user's input, output, or computational routines as needed. The package may be applied to the solution of many problems

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in industry, science, and engineering.

This Application Description presents an introduction to SSP/360 (PL/I), a list of the capabilities of the package, rules of usage, machine configuration, programming systems, and a list of reference material.

GH20-0545

SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM (RAX) (360A-CX-174) VERSION 4 APPLICATION DESCRIPTION

This system is designed to allow multiple concurrent access to a System/360 processor from remote terminals. RAX implements time-sharing techniques for the compilation and execution of user computing problems in FORTRAN and Assembler languages. Also, it provides a Terminal Command Language to provide control of the terminal and to implement the use of the programming languages.

This publication contains a description of the system, equipment requirements, system capabilities, and the elements of the Terminal Command Language, as well as a discussion of the system operation.

GH20-0549

SYSTEM/360 AD-APT/AUTOSPOT (OS) NUMERICAL CONTROL PROCESSOR (360A-CN-12X) PART PROGRAMMING MANUAL

The IBM N/C adaptation of APT for small computers (AD-APT) uses a symbolic language to simplify the preparation of instructions for numerically controlled machined tools. The AD-APT processor prepares intermediate data for a user-written postprocessor program.

This manual contains the definition and examples of AD-APT symbolic language.

GH20-0550

SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS) (360A-UH-11X) TELEPROCESSING OPERATIONS MANUAL

The Shared Hospital Accounting System (SHAS) provides hospital accounting for a multiple-hospital environment. The participating hospitals are connected to the central System/360 facility by teleprocessing terminals. SHAS consists of application programs and a teleprocessing executive.

The application programs are patient billing, accounts receivable, and general ledger, including accounting for both inpatient and outpatients.

This publication gives the specifications and necessary information for operating the SHAS teleprocessing programs. This manual also includes a description of how to assemble and operate the teleprocessing system. Operation of AR inquiry procedure is included.

For the installation of the system knowledge of teleprocessing and QTAM under DOS is required.

Prerequisites for the 1050 teleprocessing terminal setup and maintenance are the IBM 1050 Operator's Guide (GA24-3125) and PROCEDURES FOR TRANSMITTING/RECEIVING MESSAGES BETWEEN AN IBM DATA PROCESSING SYSTEM AND A 1050 DATA Communication System (GC20-1664).

GH20-0555

SYSTEM/360 INVENTORY CONTROL (360A-IF-04X) PROGRAM DESCRIPTION MANUAL

The IBM inventory control application consists of a group of integrated programs and techniques designed for the selection and implementation of order point inventory control where it applies in manufacturing organizations.

The programs provide for (1) analysis and classification of inventory items, (2) calculation of economic order quantities on the basis of usage information or future requirements, (3) computation of safety stock and order point, (4) projection of demand on the basis of historical data, and (5) basic programs for transaction processing and status report preparation.

This manual includes a description of the programs and the processing; the definition of input, output, and files; a discussion of the program options and macros; and instructions for modifying the programs. The appendices offer a sample problem with illustrations of the program input and output, in addition to tables and formulas utilized within the programs.

GH20-0556

SYSTEM/360 INVENTORY CONTROL (360A-IF-04X) OPERATIONS MANUAL

System/360 Inventory Control consists of nine programs designed to assist in the implementation of order point inventory control in manufacturing organizations.

This manual contains information regarding preparatory and operating procedures for the programs. It includes a complete list of the console messages that can be produced by the programs.

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- GH20-0557  
SYSTEM/360 AD-APT/AUTOSPOT (OS) NUMERICAL CONTROL PROCESSOR (360A-CN-12X) OPERATION'S MANUAL  
 This manual provides suggested processor generation and maintenance techniques, program setup instructions, console operating instructions, halts and error messages, storage map, and restart procedures.
- GH20-0558  
SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE APPLICATION DESCRIPTION MANUAL  
PROGRAM NUMBERS 5736-P71, 5736-P72  
 The Array Processing Subroutine Package is a set of subroutines designed to enhance and simplify the use of the IBM 2938 Array Processor, and to provide a series of analytical methods for use in digital signal analysis.
- GH20-0559  
SYSTEM/360 MATRIX LANGUAGE (MATLAN) (360A-CN-05X) OPERATIONS MANUAL  
 This manual provides detailed information to generate a MATLAN system and to run MATLAN programs.
- GH20-0560  
MATHEMATICAL PROGRAMMING SYSTEM/360 REPORT GENERATOR (MPSRG) (360A-CO-20X) PROGRAM DESCRIPTION MANUAL  
 This manual provides the system user with the information required to prepare input data and a report program. It is a basic reference document for any user of MPSRG. All MPSRG procedures are fully explained in this manual.
- GH20-0561  
MATHEMATICAL PROGRAMMING SYSTEM/360 REPORT GENERATOR (MPSRG) (360A-CO-20X) OPERATIONS MANUAL  
 This manual contains complete information regarding the preparatory and operating procedures for the MPS/360 Report Generator.
- GH20-0564  
SYSTEM/360 MATRIX LANGUAGE (MATLAN) (360A-CN-05X) PROGRAM DESCRIPTION MANUAL  
 MATLAN is a programming system, operating under the control of operating System/360 (OS/360), that is designed to simplify handling of and computation with matrices. This publication describes the MATLAN language in detail and includes description of the statements, programming considerations, and examples.
- GH20-0572  
SYSTEM/360 DECISION LOGIC TRANSLATOR (360A-CX-32X) PROGRAM DESCRIPTION MANUAL  
 The Decision Logic Translator program translates decision tables punched in cards into a FORTRAN source program. The FORTRAN source program is either punched in cards or stored on disk or tape ready for compilation. This manual contains information needed by the reader to understand the functions performed by the Decision Logic Translator. A sample problem shows how to use the decision table language to program an application.
- GH20-0573  
SYSTEM/360 DECISION LOGIC TRANSLATOR (360A-CX-32X) OPERATIONS MANUAL  
 This manual contains information on the preparation and operation of the Decision Logic Translator program. It is designed to translate decision tables (punched into cards in a prespecified format) into a FORTRAN program (stored on disk, on tape, or on cards) ready for compilation. The reader should be familiar with the contents of the following publications:  
 IBM DISK OPERATING SYSTEM/360 SYSTEM CONTROL AND SYSTEM Service Programs (GC24-5063)  
 IBM SYSTEM/360 DECISION LOGIC TRANSLATOR APPLICATION description manual (GH20-0492)  
 IBM SYSTEM/360 DECISION LOGIC TRANSLATOR PROGRAM description manual (GH20-0572)
- GH20-0574  
SYSTEM/360 GENERALIZED INFORMATION SYSTEM APPLICATION DESCRIPTION MANUAL (5736-CX1)  
 This manual surveys the operational concepts and system capabilities of the Generalized Information System (GIS). It provides an introduction to the language of GIS and describes the file organization and processing actions supported by GIS.  
 The System/360 Generalized Information System operates under control of the IBM System/360 Operating Systems and uses the "Multiprogramming with a Variable Number of Tasks" (MVT) feature. GIS is designed to operate in a terminal environment using the Queued Telecommunications Access Method and supports a wide variety of applications by providing information handling capabilities against many typical data base organizations. As a system, GIS provides facilities for defining, maintaining and retrieving data from user files under direction of the using installation and its personnel.
- GH20-0576  
1130 PROJECT CONTROL SYSTEM VERSION 2 (1130-CP-05X) APPLICATION DESCRIPTION MANUAL  
 This manual presents a brief description of a project control system, and discusses the design, features, and input/output characteristics of a computer program developed to serve as the data processing element of such a system. Although the IBM 1130 Project Control System is designed primarily for those areas of government and industry concerned with construction, repair, or maintenance, its features are such that it can meet the critical path requirements of a broad range of users, regardless of industry.
- GH20-0577  
PROGRAM FOR OPTICAL SYSTEM DESIGN/II (POSD/II) (1130-EO-14X, 360A-EO-15X, 360A-EO-16X) PROGRAM DESCRIPTION MANUAL  
 This manual provides information detailing the set of options available to POSD/II users and the techniques used in all calculations. A sample problem is used throughout the body of the text for illustrative purposes only. A separate, comprehensive problem is shown in Appendix A to demonstrate the overall capability of the POSD/II system, including output formats.  
 References are made throughout the text to the Problem Language Analyzer (PLAN) system, an IBM-supplied submonitor program that serves as an interface between various monitor systems and programs such as POSD/II. Through PLAN, users can supplement standard application program versions with their own procedures.  
 The user is referred to the POSD/II Operator's Manual for specific machine operating instructions.
- GH20-0578  
PROGRAM FOR OPTICAL SYSTEM DESIGN/II (POSD/II) (1130-EO-14X, 360A-EO-15X, 360A-EO-16X) OPERATIONS MANUAL  
 This manual is intended to serve as an instruction guide to the operation and use of POSD/II. It presents the specific operating details and summarizes user information extracted from the Program Description Manual.
- GH20-0579  
SYSTEM/360 TEXT PROCESSOR - COMPOSITION/360 (360A-DP-08X), OPERATIONS MANUAL  
 The COMPOSITION/360 component of the IBM System/360 Text Processor consists of control and functional routines which retrieve text from a user-prepared disk-resident file, justify and format text according to instructions supplied with the text, and produce generalized disk with the text, and produce generalized disk output records. The user must provide routines to retrieve this generalized information, convert it into coding acceptable to the specific composition device on which final printing will occur, and write it to the appropriate systems output device. If word division capabilities are required, COMPOSITION/360 uses the HYPHENATION/360 component of the System/360 Text Processor (360A-DP-07X).  
 This publication contains detailed preparatory systems procedures; operating instructions, error messages, and restart procedures for the component programs; and programming system and machine requirements.  
 A detailed knowledge of DOS operating procedures is a prerequisite for reading and using this manual.
- GH20-0582  
SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM-OS (ATS/OS) (360A-CX-19X) PROGRAM DESCRIPTION MANUAL  
 This manual may be used as a reference manual by application programmers who are concerned with the Administrative Terminal System, ATS/360 functioning under the IBM System/360 Operating System (OS) MFT II or MVT. ATS/360 applications consist of control and functional programs that permit, concurrently, the performance of many different text-processing and data-handling activities on separate terminals. This publication describes the principles and techniques of storage and real-time processing control for each of the programs that make up ATS/360, as well as information pertinent to their organization, scope, and planning for system applications and/or modifications to those applications. System generation procedures are described and information regarding storage estimates and system timing is given.

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- GH20-0583  
SYSTEM/360 REQUIREMENTS PLANNING (360A-MF-05X) OPERATIONS MANUAL  
System/360 Requirements Planning consists of two programs, the Requirements Generation Program, which is multi-phase, and the Print Exception Program. It is designed to assist in the implementation of a requirements planning application in manufacturing organizations.  
This manual contains information regarding preparatory and operating procedures for the programs. It includes a complete list of the console messages that can be produced by the programs.
- GH20-0584  
SYSTEM/360 REQUIREMENTS PLANNING (360A-MF-05X) PROGRAM DESCRIPTION MANUAL  
The IBM System/360 Requirements Planning programs are used to generate material requirements for finished products, assemblies, subassemblies, parts, and raw materials on the basis of an input of forecast and/or orders. System/360 Requirements Planning consists of two programs, Requirements Generation Program and Print Exception Program. Requirements Generation performs the generation of requirements utilizing time series planning to do the following: determine gross requirements, determine net requirements, plan orders, determine offset, and post component requirements. Print Exception prints exception notices covering exceptions discovered during the Requirements Generation run.  
This manual includes (1) customizing procedure for generating the System/360 Requirements Planning programs, (2) detail description of the Requirements Generation program, (3) detail description of the Print Exception program, (4) description of all I/O files, and (5) explanation and operating instructions for the sample problem.  
The material in this publication is presented with the assumption that the user has studied the following:  
  
SYSTEM/360 REQUIREMENTS PLANNING, APPLICATION Description (GH20-0487)  
  
SYSTEM/360 BILL OF MATERIAL PROCESSOR (360A-ME-06X) Application Description (GH20-0197)  
  
SYSTEM/360 BILL OF MATERIAL PROCESSOR (360A-ME-06X) Programmer's Manual (GH20-0246)
- GH20-0585  
SYSTEM/360 TEXT PROCESSOR - COMPOSITION/360 (360A-DE-08X) PROGRAM DESCRIPTION MANUAL  
The COMPOSITION/360 component of the IBM System/360 Text Processor consists of control and functional routines which retrieve text from a user-prepared disk-resident file, justify and format text according to instructions supplied with the text, and produce generalized disk output records. The user must provide routines to retrieve this generalized information, convert it into coding acceptable to the specific composition device on which final printing will occur, and write it to the appropriate systems output device. If word division capabilities are required, COMPOSITION/360 uses the HYPHENATION/360 component of the System/360 Text Processor (360A-DE-07X).  
This publication contains an explanation of the format control languages supported, processing and file descriptions, system and machine requirements, timing information, examples, and preinstallation requirements for use of the COMPOSITION/360 module and its associated utility programs. A detailed knowledge of DOS operating procedures is a prerequisite for reading and using this manual.
- GH20-0586  
SYSTEM/360 SCIENTIFIC SUBROUTINE PACKAGE (PL/I) (360A-CN-07X) PROGRAM DESCRIPTION AND OPERATIONS MANUAL  
The System/360 Scientific Subroutine Package (SSP) (PL/I) is a collection of mathematical and statistical subroutines (or procedures) written in the PL/I language. It provides the PL/I user with most of the basic capabilities in earlier FORTRAN versions of SSP/360. It also has the same basic characteristics as the FORTRAN versions, in that it consists of input/output-free computational building blocks, written completely in PL/I, which may be combined with a user's input, output, or computational routines as needed. The package may be applied to the solution of many problems in industry, science, and engineering.  
This manual contains sufficient information to permit the reader to understand and use all of the subroutines in the Scientific Subroutine Package.
- GH20-0587  
COURSEWRITER III FOR SYSTEM/360 VERSION 2 APPLICATION DESCRIPTION PROGRAM NUMBER 360A-UX-01X  
This publication describes the Coursewriter III System developed for System/360. Included are comments on the value, range, and capabilities of computer-assisted instruction systems in general, as well as descriptive material relating to the computing equipment and programming systems used by System/360.
- GH20-0588  
ADVANCED LIFE INFORMATION SYSTEM (DOS) HOME OFFICE INQUIRY PROGRAM OPERATION MANUAL PROGRAM NUMBER 5736-N11  
This manual provides terminal operators and department personnel with operating instructions and input/output for home office inquiry use.
- GH20-0589  
SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM-OS (ATS/OS) (360A-CX-19X) TERMINAL OPERATIONS MANUAL  
This manual contains procedures for operating the IBM Administrative Terminal System (ATS/360). Operation consists of manipulating the keyboard on the IBM 2741 Communications Terminal to send commands to the computer, entering documents into the system for storage, and printing documents which have been previously stored.  
Procedures are provided for using the terminal to send and receive messages in the form of documents from one terminal location to another, for transferring stored documents onto magnetic tape or punched cards, and for high-speed printing of stored documents at the computer center. Procedures are also included to bring documents into the system that are stored on punched cards and magnetic tape. The procedures are arranged so that the operator can begin with the most basic commands and immediately use the terminal while progressing through the remaining text and examples to understand the operating principles. A summary is included at the end of some sections to provide a quick review.
- GH20-0590  
SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM - OS (ATS/OS) PROGRAM NUMBER 360A-CX-19X  
This manual contains ATS/360 operating instructions for the computer center (console) operator. The instructions are to be followed when ATS/360 is under control of Operating System/360, MFT II or MVT. The instructions tell the computer center operator how to start up and shut down ATS/360 and how to service the requests from the remote ATS terminals on the system.  
The console operator should be familiar with the contents of the following IBM publications:  
IBM System/360 Principles of Operation (GA22-6821)  
IBM System/360 System Summary (GA22-6810)  
IBM Operating System/360 Introduction (GC28-6534)  
IBM System/360 Operating System Operators Guide (GC28-6540)  
IBM ATS/360 Terminal Operations Manual (GH20-0589)  
IBM ATS/360 Program Description Manual (GH20-0582)
- GH20-0591  
SYSTEM/360 RETAIL IMPACT STAPLE SYSTEM (OS) PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 360A-DR-05X  
The Retail IMPACT Staple System is designed to provide the retail industry with an integrated inventory management system for staple departments. This manual describes the individual programs that make up the Staple System, their relationships to one another, and their use in the management of staple merchandise. The document covers the inputs to and outputs from the various programs and explains the various options available to the user.
- GH20-0592  
SYSTEM/360 RETAIL IMPACT STAPLE SYSTEM (DOS) OPERATIONS MANUAL - PROGRAM NUMBER 360A-DR-09X  
The Retail IMPACT Staple System is designed to provide the retail industry with an integrated inventory management system for staple departments. This manual describes the operation of the various programs under DOS/360. Included are: console messages produced by the programs, control card descriptions, information on file requirements, sample job control for running the programs, and information necessary to compile the programs.
- GH20-0593  
SYSTEM/360 RETAIL IMPACT STAPLE SYSTEM (OS) OPERATIONS MANUAL - PROGRAM NUMBER 360A-DR-09X  
The Retail IMPACT Staple System gives the retail industry an integrated inventory management system for staple departments. This manual describes the operation of the various programs under OS/360. Included are: console messages produced by the programs, control card descriptions, information on file requirements, sample job control for running the programs, and information necessary to compile the programs.

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- GH20-0594  
PROBLEM LANGUAGE ANALYZER (PLAN) - PROGRAM NUMBERS  
1130-CX-25X, 360A-CX-26X, 360A-CX-27X  
PROGRAM REFERENCE MANUAL  
 This system provides users with application development support in the areas of:
- o User-oriented language processing
  - o Dynamic job supervision
  - o Diagnostic control and generation
  - o Input/output control
  - o Utility functions
- A small subset of the PLAN system may be utilized to provide elementary development support. Subsets may be added on an incremental basis as needed until comprehensive use of the system is attained.
- This manual is intended to provide rules for use of the system and technical specifications defining the scope of applicability. It is intended to serve as a user's and implementer's reference. Requirements are specified. Use of all other components is to be considered optional.
- GH20-0596  
SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (OS)  
OPERATIONS MANUAL - PROGRAM NUMBER 360A-CX-27X  
 This manual is intended to assist users in the implementation and execution of PLAN jobs using OS/360. It includes specifications pertinent to only the System/360 OS version of PLAN. Sections of special interest pertain to debugging, diagnostics, and abnormal termination. This manual should be read before attempting any computer operations.
- GH20-0597  
SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (DOS)  
(360A-CX-26X) OPERATIONS MANUAL  
 This manual is intended to assist users in the generation and execution of PLAN jobs using DOS/360. PLAN specifications as they pertain specifically to DOS/360 are discussed. A thorough discussion of considerations for using data sets are included. Instructions for processing optional machine readable material are provided.
- GH20-0599  
SYSTEM/360 RETAIL IMPACT STAPLE SYSTEM (DOS)  
PROGRAM DESCRIPTION MANUAL - PROGRAM NUMBER 360A-DR-09X  
 The Retail Impact Staple System is designed to provide the retail industry with an integrated inventory management system for staple departments. This manual describes the individual programs that make up the staple system, their relationships to one another, and their use in the management of staple merchandise. The document covers the inputs to and outputs from the various programs and explains the various options available to the user.
- GH20-0602  
MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X) OPERATIONS  
MANUAL  
 This manual contains information on the preparatory and operating procedures for the Mathematical Programming System/360.
- GH20-0603  
MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X)  
MESSAGE MANUAL  
 This manual contains the messages generated by the procedures and subroutines of the Mathematical Programming System/360.
- GH20-0604  
SYSTEM/360 ORDER ALLOCATION SYSTEM  
APPLICATION DESCRIPTION MANUAL - 5736-D41  
 The Order Allocation System is designed to assist apparel manufacturers in the task of assigning, or allocating, available inventory to open orders in a manner consistent with management objectives and direction.
- Input to the system consists of the user's order and inventory files and the rules to be followed in accomplishing the allocation function. Output from the system consists of picking documents and updated order and inventory files, as well as various listings, reports, and control totals.
- SH20-0605  
CUSTOMER INFORMATION CONTROL SYSTEM, OS-STANDARD (CICS/OS)  
(5736-011), PROGRAM DESCRIPTION  
 The IBM System/360 Customer Information Control System OS-STANDARD (CICS/OS) is a program modularly constructed and designed to assist customers in the installation of on-line information systems. It functions as an interface program between user-written application programs and the IBM System/360 Operating System (OS/360). Through a series of macro instructions, the control system schedules tasks, loads user programs, and provides linkage to OS/360 access methods. Storage allocation and administrative message handling capabilities are additional features of CICS/OS.
- This manual is intended for system analysts and application programmers. It contains descriptions of the basic control system modules and service programs, control system macro instructions, control card preparation, testing procedures and equipment considerations necessary to use CICS/OS. This manual also includes discussion of the separately licensed Language and Terminal Feature. Knowledge of OS/360 will assist the reader in understanding the contents of this manual.
- OS-STANDARD (CICS/OS) has been added to the name of this system to distinguish it from the recently announced DOS systems CICS/DOSE and CICS/DOSS. Functional changes have not been made.
- SH20-0606  
CUSTOMER INFORMATION CONTROL SYSTEM, OS-STANDARD  
(CICS/OS), (5736-011), OPERATION MANUAL  
 The IBM System/360 Customer Information Control System OS-STANDARD (CICS/OS) is a program modularly constructed and designed to assist customers in the installation of on-line information systems. It functions as an interface program between user-written application programs and the IBM System/360 Operating System (OS/360). Through a series of macro instructions, the control system schedules tasks, loads user programs, and provides linkage to the OS/360 access methods. Storage allocation and administrative message handling capabilities are additional features of CICS/OS.
- This manual contains information that will enable the user to generate and incorporate CICS/OS for subsequent execution under control of the IBM System/360 Operating System (OS/360). The manual contains information regarding system maintenance, terminal operation, system generation procedures for the Language and Terminal (L/T) Feature, and executable sample problems.
- OS-STANDARD (CICS/OS) has been added to the name of this system to distinguish it from the recently announced DOS systems CICS/DOSE and CICS/DOSS. Functional changes have not been made.
- GH20-0607  
LINEAR PROGRAMMING SYSTEM/360 (LPS/360) (360A-CO-18X)  
PROGRAM DESCRIPTION MANUAL  
 This manual describes how to use Linear Programming System/360. Chapter I is written in tutorial form to present concepts to new users. The rest of the manual describes the system procedures and data formats.
- GH20-0608  
COURSEWRITER III FOR SYSTEM/360 (360A-UX-01X)  
STUDENT/MONITOR USER'S GUIDE VERSION 2  
 This publication describes the IBM 1050 and 2740 terminals as used with the Coursewriter III System.
- The publication contains necessary information for the student and monitor to use the printer-keyboard to receive course material from the computer and to monitor results. Also described are the standard features and operation of the printer-keyboard and the cautions that must be exercised in its use.
- Knowledge and experience of other equipment is not assumed nor is Coursewriter Language program experience. The reader's attention is called to the IBM 1050 terminal COURSEWRITER III SYSTEM STUDENT/MONITOR REFERENCE CARD (GX20-1780) as a ready reference tool when working on a terminal. It is also assumed that new students will be given instruction in the physical use of the 1050 and 2740 terminals before they actually begin taking a course.
- Detailed operating instructions for the IBM 1050 terminal are described in PROCEDURES FOR TRANSMITTING/RECEIVING MESSAGES BETWEEN AN IBM DATA PROCESSING SYSTEM AND A 1050 DATA COMMUNICATION SYSTEM (GC20-1664) and in the IBM 1050 Operator's Guide (GA24-3125) for the Coursewriter III System monitor.
- When a 2740 terminal is being used, the IBM 2740/2741 Communications Terminal - Operator's Guide (GA27-3001) may be referenced for additional information.
- GH20-0609  
COURSEWRITER III FOR SYSTEM/360 (360A-UX-01X) VERSION 2  
AUTHOR'S GUIDE  
 This publication describes the Coursewriter III System from an author's viewpoint. The Coursewriter III Language and author commands for the Coursewriter III System are presented in detail. Included with the description of each operation code and author command are examples and possible error messages. Conversational sequences between computer and author are included for further assistance. Additional course facilities are also described, and examples of their use are given.
- Experience with computers or with Coursewriter III Language is not required to understand the information in this publication. However, new authors should receive

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instruction in the use of the IBM terminal before preparing course material.

GH20-0610

COURSEWRITER III FOR SYSTEM/360 (360A-UX-01X) VERSION 2 SUPERVISOR'S GUIDE

This publication describes operations to be performed by the Coursewriter III System supervisor. These include:

1. An introductory section describing supervisor operations.
2. Complete descriptions of all supervisor commands including examples and command sequence.
3. IBM terminal line code and extended binary coded decimal interchange code tables interchange with IBM card codes.

included is extended binary coded decimal interchange with IBM card codes table.

Prior knowledge of normal Disk Operating System/360 and

GH20-0611

LINEAR PROGRAMMING SYSTEM/360 (LPS/360) (360A-CO-10X) OPERATIONS MANUAL

This manual contains operating instructions that will enable the user to prepare and run LPS/360 under the System/360 Disk Operating System.

SH20-0612

RIGID FRAME SELECTION PROGRAM (RFSP) OPERATIONS MANUAL PROGRAM NUMBER 1130-EC-09X 5734-EC1 5736-EC1

This manual contains information regarding preparatory and operating procedures for IBM Rigid Frame Selection Program as applied to the 1130 and System/360.

SH20-0613

RIGID FRAME SELECTION PROGRAM RFSP PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-EC1 5736-EC1

This manual must be used in conjunction with IBM 1130 Rigid Frame Selection Program (RFSP), Program Description and Operations Manual (GH20-0500), as updated by Technical Newsletters. The pages in this manual correspond to those that appear in GH20-0500 (the areas of change are highlighted by a vertical rule to the left of the change).

Used as above this manual contains a complete description of RFSP for the program users. A general outline of the application, its components and its organization is followed by detailed instructions for the utilization of the various features of the program. Sample Problems are used for illustration. The appendices describe the analysis and design methodology used in the program and provide listings of program modules, files, and tables.

GH20-0614

PLAN GRAPHICS SUPPORT FOR THE IBM 2250 ON SYSTEM/360 (OS) OR IBM 1130 PROGRAM DESCRIPTION MANUAL PROGRAM NUMBERS 360A-CX-34X AND 1130-CX-33X

The PLAN Graphics Support System provides a high level language to facilitate use of the IBM 2250 Display Unit connected to the IBM 1130 System and the System/360. An interactive graphic interface to an application program can be specified with a minimum of detailed graphic programming. The specifications for the graphic interface can be saved on external storage and later operated via the IBM 2250 to provide on-line graphic input and output, as well as monitor and control an application program.

This manual provides a general description of the system and a detailed description of input and output.

GH20-0615 see page 228

GH20-0617

MECHANISM DESIGN SYSTEM-KINEMATICS PROGRAM DESCRIPTION MANUAL PROGRAM NOS. 1130-EM-03X, 360A-EM-04X AND 360A-EM-05X

The kinematic analysis program provides the linkage mechanism analysis capability which complements the IBM Mechanism Design System for Gears and Springs. A wide variety of two- and three-dimensional linkages can be analyzed with this program.

This manual provides the mechanical engineer and mechanism designer with detailed instructions on preparing input for the program.

GH20-0618

MECHANISM DESIGN SYSTEM-KINEMATICS OPERATIONS MANUAL PROGRAM NOS. 1130-EM-03X, 360A-EM-04X AND 360A-EM-05X

This manual contains information regarding preparatory and operating procedures for Mechanism Design System - Kinematics as applied to the 1130 and System/360.

SH20-0619

SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE: PROGRAM PROGRAM DESCRIPTION MANUAL PROGRAM NUMBERS 5736-P71 AND 5736-P72

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The Array Processing Subroutine Package is a set of subroutines designed to enhance and simplify the use of the IBM 2938 Array Processor, and to provide a series of analytical methods for use in digital signal analysis. There are two versions of the subroutine package. One is designed to operate under OS/360 and the other under Model 44 Programming System.

This manual contains a complete description of the functions of the subroutines for both versions and the procedures for including them in the user's programs.

SH20-0620

SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE - PS: OPERATIONS MANUAL - PROGRAM NUMBER 5736-P71

This manual contains instructions for incorporating the Array Processing Subroutine Package into the system library. It also includes diagnostic information required by all users of the Array Processor Access Method.

GH20-0621 see page 228

SH20-0622

SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) PROGRAM DESCRIPTION MANUAL VOLUME I: SYSTEM OVERVIEW AND CONTROL (5736-CX1)

The Generalized Information System (Basic) -- abbreviated GIS (Basic) -- consists of an integrated set of programs for System/360 to provide general-purpose information handling. User input statements initiate and direct the system functions of creating, querying, and maintaining formatted data files variously structured. GIS (Basic) routines are completely coded in the OS/360 Assembler Language and operate under the overall control of OS/360 using the Primary Control Program or Multiprogramming with a Fixed Number of Tasks, Version II.

This manual is presented in three volumes, of which Volume 1 describes the GIS (Basic) monitor program and the capabilities associated with it. Data-file-defining facilities and procedure-directing facilities are specified in Volume 2 and 3, respectively.

SH20-0623

SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) AND SYSTEM/360 GENERALIZED INFORMATION SYSTEM PROGRAM DESCRIPTION MANUAL VOLUME II: DATA DESCRIPTION LANGUAGE (5736-CX1)

This volume specifies, for both GIS and GIS Basic, the format and content of computer input statements defining data files to be processed. Data description language facilities are discussed in a sequence generally corresponding to a system user's need for those facilities. Descriptive language statements are illustrated as input lines with positional notation, representative of punched-card fields.

SH20-0625

SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) OPERATIONS MANUAL (5736-CX1)

This manual addresses operations personnel intending to run the Generalized Information System (Basic) under the System/360 Operating System with either of two options: the Primary Control Program or Multiprogramming with a Fixed Number of Tasks, Version II. The manual's content includes SYSGEN procedures, OS/360 Job Control language statements already written into the system's monitor program, and diagnostic messages available to the system user.

GH20-0626

PROBLEM LANGUAGE ANALYZER (PLAN) USERS' INTRODUCTION PROGRAM NUMBERS 1130-CX-25X, 360A-CX-26X AND 360A-CX-27X

This manual presents the basic ideas and facilities of the PLAN system, with references to more advanced manuals. It is organized into four chapters. The first chapter is a general introduction. Each of the others is an independent unit addressed to one group of users of the PLAN system (application users, application designers, or application programmers).

GH20-0627

SYSTEM/360 CAPACITY PLANNING - INFINITE LOADING SYSTEM/360 CAPACITY PLANNING - FINITE LOADING APPLICATION DESCRIPTION MANUAL

PROGRAM NUMBERS: 5736-M11 5736-M12

The System/360 Capacity Planning program products are designed to meet the needs of manufacturers who purchase and make subassemblies and parts for large and complex end items or who purchase, make, and then stock parts and subassemblies for later assembly into a variety of end products.

The program product System/360 Capacity Planning -- Infinite Loading (5736-M11) provides the necessary logic to:

- Determine the required labor or machine hours necessary to meet a given set of order

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- requirements
- Load orders to infinite capacity
- The program product System/360 Capacity Planning -- Finite Loading (5736-M12) provides all of the logic of program product 5736-M11 and also provides the logic to:
- Perform single-level pegging
  - Load orders in a priority sequence up to the limit of known capacity
  - Move the order to a time period that has available capacity when bottlenecks are discovered
  - Establish order start dates for components, subassemblies, and final assemblies, consistent with available plant capacity
- Both program products require data from an item master file or subordinate item master file, a standard routing file, and a work center master file as created and maintained by the System/360 Bill of Material Processor (360A-NE-06X).
- Both program products require planned order information as created by System/360 Requirements Planning, program number 360A-MF-05X, or an equivalent system.
- Finite loading (5736-M12) requires connection record (single-level pegging) information as created by program product System/360 Requirements Planning Interface (5736-M13) or an equivalent system.
- includes application program examples in both COBOL and PL/I. An index is included to facilitate the use of the manual.
- SH20-0635  
INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360: OPERATIONS MANUAL, VOLUME I - SYSTEMS OPERATION PROGRAM NUMBER 5736-CX3  
Information Management System/360 is an Operating System/360 processing program design to facilitate the implementation of medium to large common data bases in a multiapplication environment. This environment is created to accommodate both online message processing and conventional batch processing, either separately or concurrently. The system permits the evolutionary expansion of data processing applications from a batch-only to a teleprocessing environment.
- This volume of the Operations Manual includes information on IMS/360 system distribution and handling, on planning the IMS/360 system, and on implementing the system. System examples and a sample problem are supplied; a chapter on status codes and completion codes is also included.
- GH20-0629  
LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM (LEMRAS): APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-G21  
LEMRAS is a program to assist the law enforcement administrator to determine his manpower requirements to answer the public's calls for service. LEMRAS provides the police administrator with geographic and time oriented data that assists him in the allocation of his patrol manpower.
- This manual reviews the need for improved methods of deploying and directing the police agencies' most expensive resource - manpower. The capabilities of the LEMRAS approach for achieving this improvement are described, including sample reports and suggestions as to the kinds of decisions that might be made on the basis of these reports. Attention is given to the requirements for implementing LEMRAS, including staffing, data capture and control, selection of event classes, and geographic coding. Cautions relating to certain limitations of the LEMRAS forecasting techniques are also outlined.
- SH20-0630  
SYSTEM/360 GENERALIZED INFORMATION SYSTEM PROGRAM DESCRIPTION MANUAL VOLUME 1: SYSTEM OVERVIEW AND CONTROL (5736-CX1)  
The Generalized Information System, abbreviated GIS, consists of an integrated set of programs for System/360 to provide general-purpose information handling. User input statements initiate and direct the system functions of creating, querying, and maintaining formatted data files variously structured. GIS routines are completely coded in the OS/360 Assembler Language and operate under the overall control of OS/360 with MVT.
- This manual is presented in three volumes, the first of which describes the GIS monitor program and the capabilities associated with it. Data description (file definition, facilities and procedure-directing facilities are specified in Volumes 2 and 3, respectively.
- SH20-0632  
SYSTEM/360 GENERALIZED INFORMATION SYSTEM OPERATIONS MANUAL (5736-CX1)  
This manual addresses operations personnel intending to run the Generalized Information System under the System/360 Operating System using the option of Multiprogramming with a variable Number of Tasks. Contents include SYSGEN procedures, OS/360 Job Control Language statements already written into the system's monitor program, and diagnostic messages available to the system user.
- SH20-0634  
INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360 PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-CX3  
The Information Management System/360 is an Operating System/360 processing program designed to facilitate the implementation of medium to large common data bases in a multiapplication environment. This environment is created to accommodate both online message processing and conventional batch processing, either separately or concurrently. The system permits the evolutionary expansion of data processing applications from a batch-only to a teleprocessing environment.
- This manual contains a description of the functions concerned with IMS/360 in a data processing environment and of the system and its facilities provided; a discussion of data base and application program structure and details; and systems and terminal operations interfaces. An appendix
- SH20-0636  
INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360: OPERATIONS MANUAL VOLUME II - MACHINE OPERATIONS PROGRAM NUMBER 5736-CX3  
The Information Management System/360 is an Operating System/360 processing program designed to facilitate the implementation of medium to large common data bases in a multiapplication environment. This environment is created to accommodate both online message processing and conventional batch processing, either separately or concurrently. The system permits the evolutionary expansion of data processing applications from a batch-only to a teleprocessing environment.
- This volume of the Operations Manual supplies detailed information on the relationship of the Machine Operations function to IMS/360.
- GH20-0645  
ADVANCED LIFE INFORMATION SYSTEM (DOS) BATCH EDIT, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual describes the processing of input cards and the creating of file maintenance transaction items. Appropriate flowcharts, flowchart narratives, input/output formats, table descriptions, and program modification aids are included.
- GH20-0646  
ADVANCED LIFE INFORMATION SYSTEM (DOS) ALIS -- INPUT EDIT, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual describes processing of transaction items produced by the batch edit program and also describes the creation of external file maintenance transactions. Appropriate flowcharts, flowchart narratives, input/output formats, table descriptions, and program modification aids are included.
- GH20-0647  
ADVANCED LIFE INFORMATION SYSTEM (DOS) FREQUENTLY USED RECORD FORMATS, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual contains the transaction data area formats, the miscellaneous data area formats, and a policy master record format. The transaction data area formats illustrate the output from the input edit program and the input to the file maintenance program. The transaction data area formats illustrate a portion of certain output messages from the file maintenance run. The miscellaneous data area formats illustrate a portion of certain output messages from the file maintenance run. Both the transaction data area formats and miscellaneous data area formats are a part of the input and output for many of the output runs. In the documentation for the output runs, reference is made to the Frequently Used Record Formats volume for illustration of the exact nature of portions of the input or output message.
- GH20-0648  
ADVANCED LIFE INFORMATION SYSTEM (DOS) MISCELLANEOUS VOLUME, SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual contains sections on customer constants, customer tables, file maintenance account numbers and customer account strips, file maintenance message codes, transaction codes, and file maintenance work areas. The information in this manual is referenced by many system manuals, although the file maintenance system manuals refer to the data in this volume most frequently.

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- GH20-0649  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
FILE MAINTENANCE RUN EXECUTIVE, SYSTEM MANUAL  
(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual describes the processing of file maintenance transactions created by the input edit program and of file maintenance transactions scheduled as a function of time. The creation of file maintenance messages, updated policy master records, and restart records is also described. Appropriate flowcharts, flowchart narratives, input/output formats, and work areas are included.
- GH20-0650  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
DATA CELL REORGANIZATION PROGRAM, POLICY MASTER RECORD MERGE PROGRAM, DATA CELL RECONSTRUCTION PROGRAM, AND DATA CELL RESTORE PROGRAM, SYSTEMS MANUAL  
PROGRAM NUMBERS 360A-IL-09X AND 5736-N11  
This manual is in four sections. Section 1 describes the data cell reorganization program; Section 2 describes the policy master record merge program; Section 3 describes the data cell reconstruction program; and Section 4 describes the data cell restore program. Appropriate flowcharts, narratives, input/output formats, and program modification aids are included.
- GH20-0651  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
ALIS -- FILE MAINTENANCE INCLUDE (R) ROUTINES (NARRATIVES), SYSTEM MANUAL - PROGRAM NUMBERS 360A-IL-09X AND 5736-N11  
This manual includes a general description of each file maintenance include routine. This manual should be used with the FILE MAINTENANCE INCLUDE (R) ROUTINES (FLOWCHARTS) SYSTEM MANUAL to obtain a more detailed understanding of the processing in each include routine.
- GH20-0652  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
FILE MAINTENANCE INCLUDE (R) ROUTINES (FLOWCHARTS), SYSTEM MANUAL  
(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual contains a flowchart for each file maintenance include routine. This manual should be used with the FILE MAINTENANCE INCLUDE (R) ROUTINES (NARRATIVES) SYSTEM MANUAL to obtain a detailed understanding of the processing in each include routine.
- GH20-0653  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
FILE MAINTENANCE CALL (S) ROUTINES (NARRATIVES), SYSTEM MANUAL  
PROGRAM NUMBERS 360A-IL-09X, 5736-N11  
This manual includes a general description of each file maintenance call routine. This manual should be used with the FILE MAINTENANCE CALL (S) ROUTINES (FLOWCHARTS) SYSTEM MANUAL to obtain a detailed understanding of the processing in each call routine.
- GH20-0654  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
FILE MAINTENANCE CALL ROUTINES (S) (FLOWCHARTS), SYSTEM MANUAL  
(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual contains a flowchart for each file maintenance call routine. This manual should be used with the FILE MAINTENANCE CALL ROUTINES (S) (NARRATIVES) to obtain a detailed understanding of the processing in each call routine.
- GH20-0655  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
FILE MAINTENANCE ISSUES, ADDITIONS, COMPLEX CHANGES, AND TERMINATIONS TRANSACTIONS, SYSTEM MANUAL  
PROGRAM NUMBERS 360A-IL-09X AND 5736-N11  
This manual describes the processing for issues, additions, complex changes, and terminations in the file maintenance program. A program abstract, narratives, and flowcharts are included.
- GH20-0656  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
FILE MAINTENANCE SIMPLE CHANGES TRANSACTIONS, SYSTEM MANUAL  
PROGRAM NUMBERS 5736-N11 AND 360A-IL-09X  
This manual describes the external file maintenance transactions that add, delete, or replace individual policy master record fields and/or trailers. A program abstract, narratives, and flowcharts are included.
- GH20-0657  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
FILE MAINTENANCE 36XX FINANCIAL TRANSACTIONS - PAYMENTS, SYSTEM MANUAL  
(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual describes financial processing for all payment transactions in the file maintenance program. A program abstract, narratives, and flowcharts are included.
- GH20-0658  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
FILE MAINTENANCE FINANCIAL TRANSACTIONS ACCOUNTING ENTRIES, SYSTEM MANUAL  
(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual describes financial processing for all accounting adjustment transactions in the file maintenance program. A program abstract, narratives, and flowcharts are included.
- GH20-0659  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
FILE MAINTENANCE STATUS TRANSACTIONS - PROCESS AND QUOTE TERMINATIONS, SYSTEM MANUAL  
(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual describes processing in the file maintenance program for executing termination status transactions on a process (action) and a quote basis. A program abstract, narratives, and flowcharts are included.
- GH20-0660  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
FILE MAINTENANCE STATUS TRANSACTIONS - PROCESS AND QUOTE MISCELLANEOUS, LOAN VALUES, AND PARTICIPATION VALUES, SYSTEM MANUAL  
(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual describes file maintenance program processing for miscellaneous, loan value, and participation value status transactions on a process (action) and a quote basis. A program abstract, narratives, and flowcharts are included.
- GH20-0661  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
FILE MAINTENANCE BILLING TRANSACTIONS SYSTEM MANUAL  
(PROGRAM NUMBER: VERSION 1-360A-IL-09X VERSION 2 - 5736-N11)  
This manual provides detailed information to help the user understand the billing processing in the file maintenance program. It describes processing for the internal transaction billing (normal billing), catch-up billing, externally generated billing (billing), request transaction billing), and special frequency billing. A program abstract, narratives, and flowcharts are provided.
- GH20-0662  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
FILE MAINTENANCE PREMIUM DUE, OVERDUE, AND ANNIVERSARY PROCESSING TRANSACTIONS, SYSTEM MANUAL  
(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual describes processing in the file maintenance program for premium due, overdue, and anniversary processing activity. A program abstract, narratives, and flowcharts are included.
- GH20-0663  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
FILE MAINTENANCE RATE FILE EXTRACT AND ANNIVERSARY EXTRACT UPDATE TRANSACTIONS, SYSTEM MANUAL  
PROGRAM NUMBERS 360A-IL-09X AND 5736-N11  
This manual describes the processing in the file maintenance program required to create the rate file extracts and to perform the anniversary extract updating. A program abstract, narratives, and flowcharts are included.
- GH20-0664  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
FILE MAINTENANCE CONTRACTUAL CHANGES AND NOTIFICATIONS, SYSTEM MANUAL  
(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual describes the internal processing in the file maintenance program based on the annual activity date and the contractual change activity date in the policy information section of the policy master record. A program abstract, narratives, and flowcharts are included.
- GH20-0665  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
OUTPUT ANALYSIS, SYSTEM MANUAL  
(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
This manual describes the processing of message output from the file maintenance run. Appropriate flowcharts, flowchart narratives, input/output formats, program

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- modification aids, and table descriptions are included. The input/output formats and descriptions are to be used as an explanation of the file maintenance output in addition to their use in describing the input and output from the output analysis program.
- GH20-0666  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
TRANSACTION REGISTER, SYSTEM MANUAL  
(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
 This manual describes processing of transaction register extracts and error register extracts produced by the output analysis program and also describes the creation of transaction register reports. Appropriate flowcharts, flowchart narratives, input/output formats, table descriptions, and program modification aids are included.
- GH20-0667  
ADVANCED LIFE INFORMATION SYSTEM STATUS PRINT, SYSTEM MANUAL  
(PROGRAM NUMBER: VERSION 1-360A-IL-09X VERSION 2 - 5736-N11)  
 This manual describes processing of status report extracts produced by the output analysis program and the creation of printed status reports. Appropriate flowcharts, flowchart narratives, input/output formats, table descriptions, and program modification aids are included.
- GH20-0668  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
POLICY ACCOUNTING JOURNAL, SYSTEM MANUAL  
PROGRAM NUMBERS 360A-IL-09X AND 5736-N11  
 This manual describes the processing of accounting records and the printing of the policy accounting journal. Appropriate flowcharts, flowchart narratives, input/output formats, and table descriptions are included.
- GH20-0669  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
ACCOUNTING CONTROL, SYSTEM MANUAL  
PROGRAM NUMBERS 360A-IL-09X AND 5736-N11  
 This manual describes the updating of the accounting control file and the printing of the accounting control register. Appropriate flowcharts, flowchart narratives, input/output formats, table descriptions, and program modification aids are included.
- GH20-0670  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
ERROR REGISTER, SYSTEM MANUAL  
PROGRAM NUMBERS 360A-IL-09X AND 5736-N11  
 This manual describes the processing of error register messages and the printing of the error register. Appropriate flowcharts, flowchart narratives, input/output formats, and table descriptions are included.
- GH20-0671  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
RATE FILE, SYSTEM MANUAL  
PROGRAM NUMBERS 360A-IL-09X AND 5736-N11  
 This manual describes processing for rate file extracts, the use of the rate file, and the creation of the output extract for updating the policy master record file. Appropriate flowcharts, flowchart narratives, input/output formats, and program modification aids are included.
- GH20-0672  
ADVANCED LIFE INFORMATION SYSTEM (DOS)  
HOME OFFICE INQUIRY PROGRAM SYSTEM MANUAL  
(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)  
 This manual provides detailed information to help the user understand the home office inquiry program. A program abstract, narratives, flowcharts, core storage map, and program modification aids are provided.
- GH20-0673  
CALL/360-OS SYSTEM DESCRIPTION MANUAL.  
PROGRAM NUMBER 360A-CX-42X  
 This manual is intended primarily to define the scope of applicability of CALL/360-OS for customer executives, system analysts, and programmers. It describes the facilities of CALL/360-OS and includes a general discussion of the CALL/360-OS system configuration, terminal processing, system structure and control, system support and maintenance facilities, and an introduction to the language processors supported. The terminal command language is summarized for the user.  
 CALL/360-OS is a terminal-oriented, time-sharing system designed to operate as a problem program under either the IBM System/360 Operating System (OS/360) Multiprogramming with a Fixed Number of Tasks (MFT) or Multiprogramming with a Variable Number of Tasks (MVT) control program. The Model 65 Multiprocessing System (M65MP) is not supported.
- SH20-0675  
SYSTEM/360 POWER SYSTEM PLANNING FOR THE ELECTRIC UTILITY INDUSTRY (OS) (5736-U12)  
 The Power System Planning (PSP) Program Product package is designed specifically for the IBM System/360. The package uses disk storage to provide the capability of establishing a master data bank of repetitively-used engineering data which describes an electrical network. The package further provides the convenience of automatic data retrieval from the master data bank whenever a simulation program is to be run. In order to study the steady-state and transient operational characteristics of present and projected interconnected power networks, three digital simulation programs are included in the package -- Power Flow, Short Circuit, and Transient Stability.  
 This manual is designed for use by those in the system planning group who are responsible for preparing data, for initiating the PSP components, and for analyzing the results of the PSP component runs. The purpose of this manual is to provide the user with an understanding of the program necessary to implement the application. Included are descriptions of the PSP components, input/output descriptions, timing information, a sample problem, program modification aids, error messages, and the information necessary to install the package and to initiate a simulation study.
- SH20-0676  
SYSTEM/360 POWER SYSTEM PLANNING FOR THE ELECTRIC UTILITY INDUSTRY (OS) (5736-U12), OPERATIONS MANUAL  
 The Power System Planning (PSP) Program Product is designed specifically for the IBM System/360. The program uses disk storage to provide the capability of establishing a master data bank of repetitively-used engineering data which describes an electrical network. The program further provides the convenience of automatic data retrieval from the master data bank whenever a simulation study is to be run. In order to study the steady-state and transient operational characteristics of present and projected interconnected power networks three digital simulation programs are provided. These are -- Power Flow, Short Circuit, and Transient Stability.  
 This manual is designed for use by operations personnel responsible for setting up and executing the PSP program. The manual provides the specifications and necessary information for retrieving data from distributed machine-readable material (MRM) and cataloging the program in the user's library. Use of this manual requires an operating knowledge of the IBM System/360 Operating System (OS/360) job control language and operating procedures.
- SH20-0677  
PROJECT MANAGEMENT SYSTEM/360 VERSION 3 PROGRAM DESCRIPTION AND OPERATIONS MANUAL  
PROGRAM NUMBER 5734-XP1  
 This manual provides a detailed description of the four component parts of PMS/360: the Network Processor, the Resource Allocation Processor, the Cost Processor, and the Report Processor. It provides in detail the format of input required, the methods of calculation followed, and an explanation of the output generated by each processor. It also defines OS/360 Job Control cards required to run the three processors. This manual will enable the user to perform critical path analysis as well as PERT and PERT/COST analyses.
- GH20-0678  
GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (GATD)  
PROGRAM DESCRIPTION MANUAL - PROGRAM NUMBER 5734-XX2  
 Graphic Analysis of Three-Dimensional Data (GATD) is an application system built around the IBM 2250 Display Unit, which permits online analysis of data in three-dimensional arrays. GATD operates in conjunction with OS/360, PLAN (Problem Language Analyzer), and PGS (PLAN Graphic Support).  
 This manual contains a general description of the GATD system, an example of system usage, detailed information on preparation of user data for GATD processing, and GATD file descriptions. It also contains, for each function performed by the GATD system, a description of the function, restrictions and range, and a description of all displays and programs used to implement the function.

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- SH20-0679  
GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (GATD) OPERATIONS MANUAL - PROGRAM NUMBER 5734-XX2  
Graphic Analysis of Three-Dimensional Data (GATD) is an IBM 2250-oriented application program which operates under OS/360 and uses facilities of the Problem Language Analyzer (PLAN) and PLAN Graphics Support (PGS) packages.  
This manual describes the Job Control Language and PLAN statements required to retrieve machine-readable material from the distributed tape, perform all one-time initialization functions, and execute a sample problem. It also describes modifications to Job Control Language and PLAN statements for subsequent runs involving addition of user programs to the library, addition of user panels, access to user input and output data files, and saving and restoring data generated by the GATD programs. Included are all considerations necessary to display the main GATD control panel on an IBM 2250 Display Unit. All subsequent considerations involved in using the system, including error messages displayed and associated error recovery procedures, are included in the Terminal Operations Manual.
- GH20-0690  
PROJECT MANAGEMENT SYSTEM/360 VERSION 3 APPLICATION DESCRIPTION MANUAL - PROGRAM NUMBER 5734-XP1  
PMS/360 is a highly modular set of computer program routines, each performing one function common to many management applications. It is open-ended - that is, the number of functions under PMS/360 can be expanded and added to. It is versatile - that is, the user can control program logic without resorting to reprogramming. Output reports can be defined with a single set of procedural statements and can be revised with every computer run if required. The computer code itself is written in a way that simplifies modification, if this ever becomes necessary.
- SH20-0680  
GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (GATD) TERMINAL OPERATIONS MANUAL  
This manual is written for the IBM 2250 console operator and describes how the light pen is used to control the GATD system.
- GH20-0691 \*N  
GENERAL PURPOSE SIMULATION SYSTEM/360 VERSION 2 APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5734-XS1  
This manual discusses the role of GPSS in system simulation, briefly describes the operation of the GPSS program, and points out its application scope. A final section describes the major functions, capabilities, and system requirements of GPSS/360 Version 2.
- GH20-0683  
APL/360 USER'S MANUAL PROGRAM NUMBERS 5734-XM1 AND 5736-XM1  
This publication provides information necessary to use the APL/360 System. It discusses procedures and equipment required for interacting with the system, how to establish connection between terminal and central computer, how to start and end work sessions, and how to apply system control features. Application of the APL language to user problems is thoroughly discussed and appendices give both elementary and advanced examples of actual terminal sessions.
- SH20-0692  
GENERAL PURPOSE SIMULATION SYSTEM/360 OS VERSION 2 OPERATOR'S MANUAL - PROGRAM NUMBER 5734-XS1  
This publication contains information that will enable the user to link-edit and incorporate the GPSS/360 program into a system for subsequent execution under the control of OS/360. Detailed examples are given for editing the GPSS/360 program into a private JOBLIB or the OS/360 JCL cards required to execute models that use various features provided by GPSS/360. It also describes a method (REALLOCATION) whereby the user can reallocate the quantity of GPSS/360 entities and effectively use all available core storage. The various data sets required by GPSS/360 are also listed and described.  
This manual explains in detail three extended features of GPSS/360. It also includes specifications and considerations for use of the Run Length feature and the LOAD feature, as well as examples of independently compiled user-written FORTRAN routines used in conjunction with GPSS/360.
- SH20-0684  
APL/360 OS OPERATIONS AND INSTALLATION MANUAL PROGRAM NUMBER 5734-XM1  
This manual is in two parts.  
Part I gives instructions for operating the APL/360 time-sharing system and the associated utility programs. System operations include APL initiation and termination, express port and multiprogramming management, and system debugging. The utility programs provide for the maintenance of system libraries and the management of accounting information. Suggestions for good practice in time-sharing and remote-computing operation are included, as well as notes on the proper use of the utility programs.  
Part II describes the procedure for incorporating APL into an existing OS/360 (MVT) installation. It includes detailed instructions for preparing the host system for APL, allocating resources, and restoring the APL distributed library. Common problems encountered during system installation are noted and analyzed.  
The appendices include a summary of the APL operator functions, and an example of OS MVT installation jobs.
- SH20-0693  
GENERAL PURPOSE SIMULATION SYSTEM/360 OS VERSION 2 INTRODUCTORY USER'S MANUAL PROGRAM NUMBER 5734-XS1  
This publication provides a basic introduction to the use of the General Purpose System/360 (GPSS/360). It is written for those individuals who have not had previous simulation experience.  
Examples are given throughout the manual to emphasize the basic features of the GPSS/360 program. A complete and detailed description of all the GPSS/360 features may be found in the GPSS/360 User's Manual (h20-0694). Readers are advised to obtain a copy of the User's Manual when they begin to write more sophisticated models.  
The information presented in this manual should enable most readers to apply the program intelligently within a short period of time.
- SH20-0685  
APL/360 OPERATIONS MANUAL PROGRAM NUMBER 5736-XM1  
This manual gives instructions for operating the APL/360 time-sharing system and the associated utility programs. System operations include starting and stopping APL, management of express ports and multiprogramming programs. System operations include starting and stopping APL management of express ports and multiprogramming, and system debugging. The utility programs provide for the maintenance of system libraries and the management of accounting information. Suggestions for good practice in time-sharing and remote-computing operation are included, as well as notes on the proper use of the utility programs.
- SH20-0694  
GENERAL PURPOSE SIMULATION SYSTEM/360 OS AND DOS VERSION 2 USER'S MANUAL PROGRAM NUMBERS 5734-XS1 AND 5736-XS1  
This publication, an extension and amplification of the GPSS/360 Introductory User's Manual, provides a detailed description and explanation of the component parts and operation of the GPSS/360 program. Examples illustrating the uses of GPSS/360 are given in appropriate sections of the manual. This manual should enable the reader to construct and simulate models using the full capabilities of GPSS/360.
- SH20-0686  
APL/360-DOS SYSTEM GENERATION MANUAL PROGRAM NUMBER 5736-XM1  
This manual describes the procedure for generating an APL/360 system adapted to a particular machine configuration, and the procedure for updating an existing system to incorporate improvements. It includes detailed instructions for generating both the host system and APL, and an analysis of common problems encountered in the process.
- SH20-0695  
LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM (LEMTRAS) PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-G21  
The System/360 Law Enforcement Manpower Resource Allocation System (LEMTRAS) can assist police departments in the planning and evaluation of patrol manpower use through the application of scientific management techniques to maintain and analyze information relating to called-for-service activity, over user-defined geographic areas and time periods. The forecasted activity may, upon user request, be analyzed to derive information on the number
- GH20-0689  
APL/360 PRIMER - PROGRAM NUMBERS 5734-XM1 AND 5736-XM1  
This primer provides an introduction to the APL/360 system and to the APL programming language. It discusses the

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- of patrol units required to answer the calls. Learas-prepared information may also be combined with other data to help derive total manpower requirements.
- The purpose of this manual is to present detailed information on the operation and use of LEMRAS. The basic functions described are preparation and the user support of an operational system.
- SH20-0696  
LAW ENFORCEMENT RESOURCE ALLOCATION SYSTEM (LEMNAS) OPERATIONS MANUAL (5736-G21)  
The System/360 Law Enforcement Manpower Allocation System (LEMNAS) is a system which can assist police departments in the planning and evaluation of patrol manpower. Applying scientific management techniques to maintain and analyze information relating to called-for-service activity, LEMNAS forecasts average future activity over used-defined geographic areas and time periods. The forecasted activity may, upon user request, be analyzed to derive information on the number of patrol units required to answer the calls. LEMNAS prepared information may also be combined with other data to help derive total manpower requirements.
- This manual presents program execution information, a description of all console and printer messages, and examples showing control card sequence for each LEMNAS phase.
- GH20-0697  
MEDICAL INFORMATION SYSTEM PROGRAMS (MISP) PROGRAMMER'S MANUAL - PROGRAM NUMBER 360A-DH-28L  
The purpose of this manual is to describe how to use the Medical Information System Programs and facilities. A description of each interface to the executive program, each library routine, system symbols, and parameters for system definition are included. In addition, there is a series of steps outlined for guidance in construction of application programs using the MISP facilities.
- SH20-0698  
GENERAL PURPOSE SIMULATION SYSTEM/360 DOS VERSION 2 OPERATION MANUAL - PROGRAM NUMBER 5736-YS1  
This publication contains information that will enable the user to link-edit and incorporate the GPSS/360 program into a system for subsequent execution under the control of DOS/360.
- A method (REALLOCATION) whereby the user can reallocate the quantity of GPSS/360 entities and effectively use all available core storage is described and illustrated. The various data sets required by GPSS/360 are also listed and described.
- Three extended features of GPSS/360 are explained in detail in this publication. Specifications and considerations for use of the Run Length feature, the LOAD feature, and examples of independently compiled user-written FORTRAN routines used in conjunction with GPSS/360 are also included.
- GH20-0699  
CALL/360-OS BASIC LANGUAGE REFERENCE MANUAL (PROGRAM NUMBER 360A-CX-42X)  
CALL/360-OS is a system designed to operate under Operating System/360 (OS/360). It provides the facility (tool) of personal computing for a user at a remote terminal. CALL/360-OS is applicable for a wide range of users, including those with little or no computer experience, as well as experienced programmers. It consists of a Terminal Command Language, plus language processors. CALL/360-OS emphasizes problem solution at the convenience of the terminal user. Thus, a terminal user will be provided with improved turnaround, ease of use, and increased availability of the computer resources.
- GH20-0700  
CALL/360-OS PL/I LANGUAGE REFERENCE MANUAL  
CALL/360-OS is a system designed to operate under Operating System/360 (OS/360). It provides the facility (tool) of personal computing for a user at a remote terminal. CALL/360-OS is applicable for a wide range of users--persons with little or no computer experience as well as experienced programmers. It consists of a Terminal Command Language, plus language processors. CALL/360-OS emphasizes problem solution at the convenience of the terminal user. Thus a terminal user will be provided with rapid turnaround, ease of use, and general availability of computer resources.
- This manual provides a description of the features available in the CALL/360-OS PL/I language. CALL/360-OS PL/I is designed to meet the needs of the terminal user.
- GH20-0709  
SHARED LABORATORY INFORMATION SYSTEM (SLIS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-H12  
The IBM Shared Laboratory Information System (SLIS) provides data processing support for hospital clinical laboratories.
- Operating under the Shared Hospital Accounting System (SHAS) executive, the programs handle batched input of laboratory requisitions and test results, producing laboratory reports for use throughout the hospital.
- The program design allows tailoring of formats and procedures to meet the separate needs of several hospitals sharing a common computer. Input and output of the system may optionally use the SHAS teleprocessing executive, allowing remote data entry and report production. The laboratory application programs complement the SHAS accounting applications through the use of a common admission procedure and automatic charge generation.
- This publication describes the features of the IBM Shared Laboratory Information System and is designed to give the reader an overall knowledge of the system without reference to program detail.
- GH20-0710  
CALL 360/-OS FORTRAN LANGUAGE REFERENCE MANUAL PROGRAM NUMBER 360A-CX-42X  
CALL/360-OS is a system designed to operate under Operating System/360 (OS/360). It provides the facility (tool) of personal computing for a user at a remote terminal. CALL/360-OS is applicable for a wide range of users, including those users with little or no computer experience, as well as experienced programmers. It consists of a Terminal Command Language, plus language processors, and it emphasizes problem solution at the convenience of the terminal user. Thus, a terminal user will be provided with improved turnaround, ease of use, and increased availability of the computer resources.
- This manual provides a description of the features available in the CALL/360-OS FORTRAN language.
- SH20-0711  
SYSTEM/360 TEXT PROCESSOR - EDIT/360 OPERATIONS MANUAL PROGRAM NUMBER 5736-K11  
The EDIT/360 component of the IBM System/360 Text Processor consists of control and functional routines which retrieve input from a user-prepared disk-resident file. Input consists of textual material, text-formatting commands, and output requests. After the output text has been proofread, alterations can be made to stored textual data through the use of text modification commands without reentering the original text input. Completely justified and corrected text is written as generalized disk records. The user must provide routines to retrieve this generalized information, convert it into coding acceptable to the specific composition device. If word division capabilities are required EDIT/360 uses the HYPHENATION/360 component of the System/360 Text Processor (360A-DP-07X).
- This publication contains detailed preparatory systems procedures; operating instructions, error messages, and restart procedures for the component programs; and programming system and machine requirements.
- A detailed knowledge of DOS operating procedures is a prerequisite for reading and using this manual.
- SH20-0712  
SYSTEM/360 TEXT PROCESSOR - EDIT/360 PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-K11  
The EDIT/360 component of the IBM System/360 Text Processor consists of control and functional routines which retrieve input from a user-prepared disk-resident file. Input consists of textual material, text-formatting commands, and output requests. After the output text has been proofread, alterations can be made to stored textual data through the use of text modification commands without reentering the original text input. Completely justified and corrected text is written as generalized disk records. The user must provide routines to retrieve this generalized information, convert it into coding acceptable to the specific composition device on which final printing will occur, and write it to the appropriate systems output device. If word division capabilities are required, EDIT/360 uses the HYPHENATION/360 component of the System/360 Text Processor (360-DP-07X).
- This publication contains an explanation of the composition control languages supported, processing and file descriptions, system and examples, and preinstallation requirements for use of the EDIT/360 module and its associated utility programs. A detailed knowledge of DOS operating procedures is a prerequisite for reading and using this manual.
- GH20-0719  
360 DOS POWER II APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 360D-05.2.006  
This is a general introduction to POWER II (Priority Output Writers, Execution Processors, and Input Readers), an automatic SPOOLING processor and priority scheduler for normal batch processing under DOS. POWER II operates under DOS, providing significant improvement in system throughput,

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- and many additional functions. It is a Type III Class A Program.
- GH20-0720  
COURSEWRITER III FOR SYSTEM/360 VERSION 2 OPERATOR'S GUIDE  
PROGRAM NUMBER 360A-UY-01X  
This publication describes operations to be performed by the Coursewriter III System console operator. These include:
  - o A brief section on system components with a sample machine configuration.
  - o A detailed step-by-step procedure to prepare the Coursewriter III, Version 2, system.
  - o IBM terminal line code and EBCDIC tables.Prior knowledge of Disk Operating System/360 and Basic Telecommunications Access Method operating procedures is assumed.
- GH20-0721  
SYSTEM/360 CONSUMER GOODS SYSTEM (COGS)  
ALLOCATION (DOS) (OS) APPLICATION DESCRIPTION MANUAL  
PROGRAM NUMBERS (DOS) 5736-D31, (OS) 5734-D32  
This manual describes the techniques of service point and variable interval allocation as they apply to the distribution function of the consumer goods industry. Consumer Goods System (COGS) - Allocation handles allocation of finished products to warehouses or distribution centers on the basis of forecast usage, current stock status, shipping restrictions, and management's policy for service and inventory. COGS - Allocation also provides a means of simulating the distribution process for up to one year. The audience for this manual includes executives, system analysts, and programmers. The manual provides an overview of the application with information for the prospective customer to use in determining applicability and begin planning for implementation of the program. Included in the manual are a general description of the program, common elements of the push and pull policies, elements unique to a pull policy, elements unique to a push policy, user responsibilities, system considerations, and input/output formats.
- GH20-0722  
SYSTEM/360 CONSUMER GOODS SYSTEM (COGS) FORECASTING (DOS)  
(OS) - APPLICATION DESCRIPTION MANUAL - PROGRAM NUMBER  
DOS 5736-D32, OS 5734-D33  
COGS-Forecasting is a general purpose forecasting system applicable to the distribution, manufacturing, and process industries. This manual provides an overview of the forecasting application and an introduction to COGS-Forecasting. Major topics include forecasting concepts, the techniques used by COGS-Forecasting, a description of the operation of the system, and preliminary installation planning. The audience for this manual includes executives, inventory control personnel, systems analysts, programmers, and all others who require an introduction to the system. There are no prerequisites to this manual. However, an understanding of this manual is a prerequisite to the use of COGS-Forecasting Program Description Manual (SH20-0804), COGS-Forecasting Operations Manual (SH20-0803), COGS-Forecasting System Manual (LY20-0621), Licensed Material.
- GH20-0723  
DATA/360-DOS APPLICATION DESCRIPTION MANUAL  
PROGRAM NUMBER 5736-XS2  
This describes DATA/360, a teleprocessing program, written in Assembler Language to operate under the Disk Operating System (DOS). The purpose is to provide a method of entering data by means of 24 local 2260 Display Station Model 2 terminals to a 2314 Direct Access Storage Facility and of verifying this data to produce input to a user's program, bypassing all unit record operations.
- SH20-0726  
SYSTEM/360 ORDER ALLOCATION SYSTEM  
PROGRAM DESCRIPTION MANUAL  
PROGRAM NUMBER 5736-D41  
The Order Allocation System is designed to assist apparel manufacturers in allocating available inventory to open orders in a manner consistent with management objectives and direction. Input to the system consists of the user's order and inventory files and the rules to be followed in performing the allocation function. Output from the system consists of picking documents and updated order and inventory files, as well as various listings, reports, and control totals. This manual describes the programs in the system and provides guidance for the installation and use of the Order Allocation System. The reader should be familiar with the Application Description Manual for the Order Allocation System (GH20-0604).
- SH20-0727  
DATA/360-DOS CONSOLE OPERATOR'S GUIDE  
PRELIMINARY VERSION PROGRAM NUMBER 5736-XS2  
This manual presents (1) a procedure for initializing the DATA/360 system, (2) a description of DATA/360 utilities and procedures for using them, and (3) a complete and detailed description of all files and their associated formats.
- SH20-0728 \*N  
ORDER ALLOCATION SYSTEM OPERATIONS MANUAL  
PROGRAM NUMBER 5736-D41  
The Order Allocation System assists apparel and shoe manufacturers in allocating and shipping stock to customers. This manual describes the operating procedures and job control cards required for retrieving programs from the distribution tape, preparing the system, operating the system, and running the sample problem.
- SH20-0729  
DATA/360-DOS TERMINAL OPERATOR'S GUIDE  
PRELIMINARY VERSION (PROGRAM NO. 5736-XS2)  
This manual describes the entire command structure for DATA/360. Each command (both primary and secondary) is explained in sufficient detail to enable an experienced keypunch operator to quickly acquire the skills necessary to exploit the advantages offered by the DATA/360 system. This manual is organized to facilitate teaching of inexperienced operators as well as to serve as a reference guide.
- GH20-0730  
TARIFF PUBLISHING SYSTEM (BOUND TARIFFS)  
TRAFFIC PROFILE ANALYSIS SYSTEM  
(POINT-TO-POINT TARIFF ITEM SELECTION)  
APPLICATION DESCRIPTION MANUAL  
PROGRAM NUMBERS 5736-T21, 5736-T22  
The Tariff Publishing System is a computer program designed to assist the tariff publishing agent in supplementing, reissuing, and distributing bound tariffs. The principal outputs of the system are magnetic tapes for distribution and camera-ready tariff material for reproduction. These magnetic tape tariffs may be used by shippers and carriers for computerized analysis. The Traffic Profile Analysis System provides a computerized means of specifying and selecting point-to-point tariff matter based on a user's interest profile. The interest profile identifies the commodities a tariff user ships, the carriers via which freight may be transported, and the points which are of interest to the user. The Tariff Publishing System is a prerequisite for the use of the Traffic Profile Analysis System. The graphics, codes, and formats for entry and display of tariff matter have been standardized to improve the operating efficiency of the Tariff Publishing System and the consistency and readability of the tariff for users. The standards meet the requirements published in Interstate Commerce Commission circulars and, in addition, follow the best of today's tariff publishing practices. The Tariff Publishing System and the Traffic Profile Analysis System use IBM System/360 Disk Operating System. The audience for this manual includes executives, system analysts, and programmers. The manual provides the potential user with information necessary to begin planning for the installation of these programs. This manual provides a general description of the Tariff Publishing System and the Traffic Profile Analysis System and describes the extent of coverage of the programs, highlights the advantages that may be realized through their use, and provides preliminary planning information for users.
- GH20-0735  
COURSEWRITER III FOR SYSTEM/360 (OS AND DOS) VERSION 2  
APPLICATION DESCRIPTION MANUAL (5734-E12)  
This publication describes the Coursewriter III System developed for System/360. Included are comments on the value, range, and capabilities of computer-assisted instruction systems in general, as well as descriptive material relating to the computing equipment and programming systems used by System/360.
- SH20-0736  
SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) SYSTEM/360  
GENERALIZED INFORMATION SYSTEM PROGRAM DESCRIPTION MANUAL  
VOLUME III: PROCEDURAL LANGUAGE  
PROGRAM NUMBER 5736-CX1  
This manual describes procedural language facilities for specifying file-processing tasks to be performed by the program product--short title GIS and GIS(BASIC)--under the overall control of the System/360 Operating System. Procedural language statements provide for interrogating, modifying, and updating data files previously defined by means of the GIS data description language.

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Input statements use English keywords and extension words, and common arithmetic symbols, to express the system user's procedural logic.

All elements of the procedural language, and all task statement formats are identical for both GIS and GIS (Basic). Examples and appendix entries show how procedural language elements combine to form statements, and how the statements appear in a task specification.

GH20-0737

IBM SYSTEM/360 DOS POWER II PROGRAM DESCRIPTION AND OPERATIONS MANUAL  
PROGRAM NUMBER 360D-05.2.006  
 POWER II (PRIORITY Output Writers, Execution Processors, and Input Readers) is an automatic SPOOLing processor and priority scheduler for normal batch processing under IBM System/360 Disk Operating System. This manual describes the general concepts and facilities of POWER II. It includes operational and functional characteristics, installation procedures, and maintenance and performance guidelines.

GH20-0743

IBM SYSTEM/360 DOS POWER II REMOTE JOB ENTRY PROGRAM APPLICATION DESCRIPTION MANUAL  
PROGRAM NUMBER 360D-05.2.008  
 IBM System/360 POWER II Remote Job Entry (POWER II/RJE) offers the ability to submit jobs via remote IBM 2780 Data Transmission Terminals for normal batch processing under DOS. This document presents the general concepts and facilities of RJE. Knowledge of IBM System/360 POWER II is a prerequisite to understanding POWER II/RJE.

SH20-0744

COURSEWRITER III FOR SYSTEM/360 (OS) VERSION 2 OPERATOR'S GUIDE PROGRAM NUMBER 5734-E12  
 This publication describes operations to be performed by the Coursewriter III System console operator. These include:

1. A brief section on system components with a sample machine configuration.
2. A detailed step-by-step procedure to prepare the Coursewriter III, Version 2, System.
3. IBM terminal line code and EBCDIC tables.

Prior knowledge of Operating System/360 and Basic Telecommunications Access Method operating procedures is assumed.

GH20-0745

SYSTEM/360 OS LEARN ADMINISTRATIVE TERMINAL SYSTEM APPLICATION DESCRIPTION MANUAL (PROGRAM NO. 5734-XX8)  
 OS LEARN Administrative Terminal System is designed to help ATS/OS installations teach their terminal operators to use the System/360 Administrative Terminal System. It consists of new and replacement macros and application programs to be incorporated into the existing ATS and eight lessons to be stored as ATS permanent storage documents. This publication contains a general discussion of the features of the product and the application for which it is designed.

GH20-0746

SYSTEM/360 DOS LEARN ADMINISTRATIVE TERMINAL SYSTEM APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-XX3  
 DOS LEARN Administrative Terminal System is designed to help ATS/DOS installations teach their terminal operators to use the System/360 Administrative Terminal System. It consists of new and replacement macros and application programs to be incorporated into the existing ATS and eight lessons to be stored as ATS permanent storage documents. This publication contains a general discussion of the features of the product and the application for which it is designed.

GH20-0751

OS/360 REQUIREMENTS PLANNING - APPLICATION DESCRIPTION MANUAL  
PROGRAM NUMBER 5734-M51  
 No abstract available.

GH20-0752

OS/360 INVENTORY CONTROL APPLICATION DESCRIPTION MANUAL (5734-M52)  
 The IBM OS/360 Inventory Control program product consists of a group of integrated programs and techniques designed for the selection and implementation of order point inventory control where it applies in manufacturing organizations. The programs provide for (1) classification of inventory items for determining the type of control, (2) calculation of economic order quantities on the basis of usage information or future requirements, (3) computation of

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safety stock and order point, and (4) projection of demand on the basis of historical data.

This manual gives information for determining the applicability of the programs, and includes a general description of the programs, the machine configuration, general systems charts, sample reports, and a discussion of inventory control concepts applicable to the use of the programs. The audience for this manual includes customer executives, systems analysts, and programmers.

GH20-0753

SYSTEM/360 SHOP FLOOR CONTROL APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-M31  
 The System/360 Shop Floor Control System is designed to provide substantial information about the status of orders moving through manufacturing facilities so that proper control can be maintained throughout the production cycle. To accomplish this, System/360 Shop Floor Control performs the following:

- Determines when orders should be released
- Prepares exception notices when material for an order is not available
- Creates files containing open order information
- Prepares data for output to shop and management personnel
- Provides retrieval of pertinent files for the user to update upon receipt of information from the shop floor
- Provides retrieval report capability pertaining to the status of orders in the shop
- Provides the priority calculation and preparation of a work list in priority sequence

System/360 Shop Floor Control is designed to provide current information about production orders and facilities, thereby providing management the ability to exert the proper control over shop floor activity. This control is attainable by determining the orders to be released to the shop, creating and maintaining records pertaining to these orders, and quickly accessing report information. This manual describes System/360 Shop Floor Control and provides information to enable the reader to determine applicability and to begin planning for the program product. The audience includes executives, systems analysts, and programmers.

GH20-0754

SYSTEM/360 SHOP FLOOR CONTROL DATA BASE MANUAL PROGRAM NUMBER 5736-M31  
 This manual describes the data base records and fields that are used by the System/360 Shop Floor Control program product. The following records are included:

- Item master subordinate item master
- Product structure
- Work center master
- Standard routing
- Open order summary
- Open order detail

A separate section of this manual shows the other IBM application programs and program products that use the same following IBM programs are referenced:

- System/360 Bill of Material Processor
- System/360 Inventory Control
- System/360 Requirements Planning
- System/360 Capacity Planning
- System/360 Shop Floor Control

This publication is intended to assist the user's system personnel in the planning of data base requirements for program product System/360 Shop Floor Control.

GH20-0757

CONVERSATIONAL PROGRAMMING SYSTEM (CPS) SYSTEM PROGRAMMER'S GUIDE  
 This publication provides information and descriptions of internal functions of the Conversation Programming System (CPS). Internal logic and flow is described as well as individual program module description. It is assumed that the users of this publication are thoroughly familiar with the externals of the Conversational Programming System.

GH20-0758

CONVERSATIONAL PROGRAMMING SYSTEM (CPS) TERMINAL USER'S MANUAL - PROGRAM NUMBER 360D-03.4-016  
 The Conversational Programming System (CPS) is a time-sharing system which runs in a partition of the IBM System/360 Operating System MPT II or MVT. It gives remote terminal users an interactive problem solving facility using modified subsets of either the PL/I or BASIC languages. A remote job entry facility is also provided. This publication is a reference manual for the terminal user that contains descriptions of:

- o How to call the computer from a terminal
- o The CPS PL/I language
- o CPS PL/I built-in functions
- o Methods for program optimization

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- o The remote job entry facility
  - o Terminal error messages
- The CPS BASIC language is not describes in this manual.

GH20-0759

CONVERSATIONAL PROGRAMMING SYSTEM (CPS) INSTALLATION AND ADMINISTRATION MANUAL  
This publication provides a description of the procedures necessary to tailor a Conversational Programming System (CPS) as distributed for a particular computer installation. It includes descriptions of necessary OS/360 support, the SYSTEM/360 hardware support, the CPS Generation procedure, additional data set support and general operating techniques. It also contains general information considered to be advantageous to computer installations using the Conversational Programming System (CPS). The reader is assumed to be thoroughly familiar with the external of the Conversational Programming System (CPS), as presented in the Terminal User's Manual.

GH20-0761

DISK OPERATING SYSTEM/360 POWER II REMOTE JOB ENTRY PROGRAM DESCRIPTION AND OPERATIONS MANUAL  
PROGRAM NUMBER 360-05.2.006  
IBM System/360 POWER II Remote Job Entry (POWER II/RJE) offers the ability to submit jobs via remote IBM 2780 Data Transmission Terminals for normal batch processing under DOS. This manual describes the general concepts and facilities of RJE. It includes operational and functional characteristics, installation procedures, and maintenance and performance guidelines. Knowledge of System/360 POWER II is a prerequisite to understanding POWER II/RJE (see the POWER II Program Description and Operations Manual, GH20-0737).

GH20-0763

FINANCIAL TERMINAL SYSTEM APPLICATION DESCRIPTION FTS/360  
PROGRAM NUMBER 5736-F12  
FTS is a System/360 DOS processing program designed to facilitate implementation of a fast response, telecommunications system. FTS acts as the controller of a BFAM partition, coordinating the DOS Multitasking Supervisor with a communications network.  
The FTS user invokes FTS services and resources to assist his application-oriented processing through the medium of the DOS Assembler Language macro facilities.

GH20-0764

SYSTEM/360 AGRIBUSINESS MANAGEMENT INFORMATION SYSTEM APPLICATION DESCRIPTION MANUAL  
PROGRAM NUMBER 5736-D51  
The Agribusiness Management Information System (AMIS) provides a computer-oriented cost accounting system for farmers, ranchers, and growers. A distinguishing feature is the emphasis this system places on management accounting by cost center. At the same time, the system produces financial accounting records necessary for fiscal control. The system represents a significant step in organizing and presenting necessary for fiscal control. The system represents a significant step in organizing and presenting the information needed for sound management decisions. This manual contains a general description of the system and the systems approach taken. It is intended to introduce the reader to the system and to serve as a guide for early planning.

GH20-0765

INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360 (SYSTEM DESCRIPTION) APPLICATION DESCRIPTION MANUAL (VERSION 2) PROGRAM NUMBER 5734-XX6  
The Information Management System/360 is an Operating System/360 processing program designed to facilitate the implementation of medium to large common data bases in a multiapplication environment. This environment is created to accommodate both online message processing and conventional batch processing, either separately or concurrently. The system permits the evolutionary expansion of data processing applications from a batch-only to a teleprocessing environment.  
This manual includes a general description of the system and its various facilities and programs, listings of typical and minimum configurations, and sample applications.

SH20-0766

IBM SYSTEM/360 OS LEARN ADMINISTRATIVE TERMINAL SYSTEM PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-XX8  
This program is used to assist ATS/OS installations in teaching their terminal operators to use the System/360 Administrative Terminal System. It functions under ATS by incorporating additional and modified macros and application programs into the existing system.  
This manual contains the instructions necessary for

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the installation and maintenance of LEARN ATS under ATS/OS. It contains information on the functions and commands of the program and may be used as a reference manual.

SH20-0767

IBM SYSTEM/360 DOS LEARN ADMINISTRATIVE TERMINAL SYSTEM PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-XX3  
This program is used to assist ATS/DOS installations in teaching their terminal operators to use the System/360 Administrative Terminal System. It functions under ATS by incorporating additional and modified macros and application programs into the existing system.  
This manual contains the instructions necessary for the installation and maintenance of LEARN ATS under ATS/DOS. It contains information on the functions and commands of the program and may be used as a reference manual.

SH20-0768

IBM SYSTEM/360 LEARN ATS WORKBOOK  
PROGRAM NUMBERS 5734-XX8, 5736-XX3  
The workbook is intended as a complement to the LEARN ATS package. It introduces ATS and LEARN ATS to the student and guides her through the procedures required to sign on ATS and begin taking LEARN ATS, which consists of seven lessons aimed at providing the basics of ATS/360 operations from a terminal standpoint. Appendices contain illustrative material for the lessons.

SH20-0769

SHARED LABORATORY INFORMATION SYSTEM (SLIS) LABORATORY MANUAL PROGRAM NUMBER 5736-H12  
The IBM Shared Laboratory Information System (SLIS) provides data processing support for hospital clinical laboratories. Operating under the Shared Hospital Accounting System (SHAS) executive, the programs handle batched input of laboratory requisitions and test results, producing executive, the programs handle batched input of laboratory requisitions and test results, producing  
The program design allows tailoring of formats and procedures to meet the separate needs of several hospitals sharing a common computer. Input and output of the system may optionally use the SHAS teleprocessing executive, allowing remote data entry and report production. The laboratory application programs complement the SHAS accounting application programs through the use of a common admission procedure and automatic charge generation.  
This basic publication provides specific information for installation planning and operation of the Shared Laboratory Information System. Detailed discussions cover available system options and user options, preparation of master file data, preparation of daily input to the system, and interpretation of output from the system.  
This document should be used as a reference guide by both user-hospital personnel and central operations personnel during the entire life of the system.  
Discussions in this manual pertain to the Shared Hospital Accounting System (SHAS) and the Automated Chemistry Program (ACP). For more detail on these systems, refer to SHAS PROGRAM DESCRIPTION MANUAL, (GH20-0533), SHAS OPERATIONS MANUAL (GH20-0534), ACP APPLICATION DESCRIPTION MANUAL (GH20-0475), ACP PROGRAM DESCRIPTION MANUAL (GH20-0525), and ACP OPERATIONS MANUAL (GH20-0516).

GH20-0771

SYSTEM/360 DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-XX4  
The System/360 Data Base Organization and Maintenance Processor is a programming system designed to create, maintain, and reorganize the central data base in a multiapplication environment. It provides the framework for a computer-oriented information system. Primarily batch-oriented, the system operates under DOS/360.  
This manual provides an overview of the system, specifies the functions, options, and features included in the system, and provides information necessary to begin planning for implementation. The content includes a description of the data structure facilities of the system, system flowcharts, a description of the programs in the system, machine configuration requirements, performance estimates, and user responsibilities for implementation. The manual is data processing-oriented with a variety of application examples. The primary audience is intended to be data processing executives, systems analysts, and programmers.  
This program is a modified and extended version of the IBM System/360 Bill of Material Processor. Appendix A contains a discussion of this application. Appendix B of this manual enumerates the improvements and conversion considerations.

GH20-0772

CLINICAL LABORATORY MANAGEMENT SYSTEM (CLMS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5718-H12  
The IBM Clinical Laboratory Management System applies the

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- capabilities of the IBM 1800 Data Acquisition and Control System to the problems of the clinical laboratory. It is a system of files and procedures designed to satisfy basic information processing requirements of clinical laboratories. Utilizing the Clinical Laboratory Data Acquisition System (CLDAS) Program Product (5718-H11) or its equivalent for the data acquisition function, it provides a broad base for an information management system. CLMS directs and controls the flow of information from receipt of the initial requisition for a test until the final result has been developed and is ready for reporting. CLMS operates under the IBM 1800 Time Sharing Executive System (see GC26-3703) on the IBM 1800 Data Acquisition and Control System.
- The purpose of this manual is to provide a general description of the application, to outline the system advantages and to provide information useful in planning for installation of the application.
- GH20-0775  
SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM APPLICATION DESCRIPTION MANUAL, PROGRAM NUMBER 5736-P32  
This application program is designed to assist the securities industry by automating the active box section of the cashier's department using IBM 2260 display terminals for both inquiry and security move recording.
- This manual is intended for the use of customers and IBM sales and systems engineering personnel. It gives a general description of the background, purpose, and intended market of the Active Certificate Information Program, followed by sections on processing operations, installation planning and requirements, and modes of operation. A glossary is appended.
- SH20-0776  
OS/360 INVENTORY CONTROL PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-M52  
The OS/360 Inventory Control program product consists of a group of integrated programs and techniques designed for the implementation of order point inventory control where it applies in manufacturing organizations.
- The programs provide for (1) analysis and classification of inventory items, (2) calculation of economic order quantities on the basis of usage information or future requirements, (3) computation of safety stock and order point, and (4) projection of demand on the basis of historical data.
- This manual enables the user to understand the functions of, prepare for, and install the program product. Included are descriptions of the programs and the processing, definitions of input, output, and files; a discussion of the program options, program macros, and program input/output; and tables and formulas utilized within the programs. The audience for this manual includes systems analysts and programmers.
- SH20-0777  
OS/360 REQUIREMENTS PLANNING PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-M51  
OS/360 Requirements Planning determines planned orders by time period for finished products, assemblies, subassemblies, parts, and raw materials based upon the input of orders and forecasts. OS/360 Requirements Planning consists of three components, the requirements generation program, the print exception program, and the chained file management system.
- The chained file management system creates and maintains the direct access files, consisting of the item master, product structure, work center master, and routing files, used by a central manufacturing system. The chained file management system is required by, and is provided with, the OS/360 Requirements Planning program product.
- This manual includes (1) discussions of system definition, (2) descriptions of all input/output files, (3) a detailed description of the requirements generation program, (4) a detailed description of the print exception program, (5) a detailed description of the chained file management system program modules, (6) a detailed description of customizing procedures to generate various chained file management system program modules, (7) a detailed description of customizing procedures to generate the requirements generation and print exception programs, and (8) information regarding the two sample problems.
- SH20-0778  
OS/360 INVENTORY CONTROL OPERATIONS MANUAL PROGRAM NUMBER 5734-M52  
OS/360 Inventory Control consists of seven programs designed to assist in the implementation of order point inventory control in manufacturing organizations.
- This manual contains information regarding preparatory and operating procedures for the programs. It includes a complete list of the messages that can be produced by the programs.
- SH20-0780  
SHARED LABORATORY INFORMATION SYSTEM (SLIS) 5736-H12 PROGRAM DESCRIPTION MANUAL  
The IBM Shared Laboratory Information System (SLIS) provides data processing support for hospital clinical laboratories. Operating under the Shared Hospital Accounting System (SHAS) executive, the programs handle batched input of laboratory requisitions and test results, producing laboratory reports for use throughout the hospital.
- The program design allows tailoring of formats and procedures to meet the separate needs of several hospitals sharing a common computer. Input and output of the system may use the SHAS teleprocessing executive, allowing remote data entry and report production. The laboratory application programs complement the SHAS accounting application programs through the use of a common admission procedure and automatic charge generation.
- This basic publication provides information on the Shared Laboratory Information System, enabling the user to understand the function of all SLIS programs as a guide for preparing to install SLIS. This document is written as a reference manual and not as a study text. For educational purposes this manual should be used in conjunction with the SLIS APPLICATION DESCRIPTION MANUAL (GH20-0780), the SLIS OPERATIONS MANUAL, and the SLIS LABORATORY MANUAL, SH20-0769.
- SH20-0781  
SHARED LABORATORY INFORMATION SYSTEM (SLIS) (5736-H12) OPERATIONS MANUAL  
The IBM Shared Laboratory Information System (SLIS) provides data processing support for hospital clinical laboratories. Operating under the Shared Hospital Accounting System (SHAS) executive, the programs handle batched input of laboratory requisitions and test results, producing laboratory reports for use throughout the hospital.
- The program design allows tailoring of formats and procedures to meet the separate needs of several hospitals sharing a common computer. Input and output of the system may optionally use the SHAS teleprocessing executive, allowing remote data entry and report production. The laboratory application programs complement the SHAS accounting application programs through the use of a common admission procedure and automatic charge generation.
- This basic publication gives the specifications and necessary information for operating the SLIS programs. It includes a description of retrieving data from distributed machine-readable material and cataloging programs in the user's core image library. Use of this manual requires an operating knowledge of the IBM Disk Operating System (DOS) job control cards and operating procedures.
- SH20-0782  
OS/360 REQUIREMENTS PLANNING PROGRAM PRODUCT 5734-M51 OPERATING MANUAL  
OS/360 Requirements Planning consists of three components: The requirements generation program, the print exception program, and the chained file management system.
- OS/360 Requirements Planning offers a mechanized approach to detailed requirements planning. It uses item master and product structure files created and maintained by the chained file management system.
- This manual contains information regarding preparatory and operating procedures for the programs. It includes a complete list of system messages that can be generated by the programs.
- GH20-0786  
CALL/360-OS EXECUTIVE AND UTILITIES PROGRAM DESCRIPTION MANUAL (PROGRAM NUMBER 360A-CX-424)  
This publication describes the facilities provided by CALL/360-OS to installation personnel who are responsible for the selection, evaluation, and implementation of the systems engineers, installation programmers, marketing representatives, and customer systems personnel.
- CALL/360-OS is a terminal-oriented, time-sharing system designed to function under the control of the IBM System/360 Operating System with either of two options: Multiprogramming with a Fixed Number of Tasks (MFT), or Multiprogramming with a Variable Number of Tasks (MVT). From the terminal user standpoint, the CALL/360-OS service environment approximates that of a dedicated, in-house, data processing installation.
- Subjects discussed in this manual cover system concepts, executive and utility function, data base management, system installation, run-time options, and diagnostic aids. Error messages available to the user system are described in a separate manual: CALL/360-OS, OPERATOR'S MANUAL (GH20-0788).
- GH20-0787  
CALL/360-OS TERMINAL OPERATIONS MANUAL PROGRAM NUMBER 360A-CX-42X  
This manual discusses those elements of terminal

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characteristics, operations, and maintenance pertaining to terminals used by the CALL/360-OS time-sharing system. It is addressed to the individual terminal user.

Additional operating techniques covering specific CALL/360-OS language statements, system commands, and terminal correction procedures can be found in the three separate language reference manuals: CALL/360-OS BASIC LANGUAGE REFERENCE MANUAL (GH20-0699), CALL/360-OS FORTRAN LANGUAGE REFERENCE MANUAL (GH20-0710), and CALL/360-OS PL/I LANGUAGE REFERENCE MANUAL (GH20-0700).

GH20-0788

CALL/360-OS OPERATOR'S MANUAL PROGRAM NUMBER 360A-CX-42X  
This publication described the online operating procedures for the CALL/360-OS time-sharing system to computer center operator personnel responsible for day-to-day system operation. CALL/360-OS is a terminal oriented, time-shared system designed to function under the control of the IBM System/360 Operating System using either of the two available options: Multiprogramming with a Fixed Number of Tasks (MFT) or Multiprogramming with a Variable Number of Tasks (MVT). Subjects discussed in this manual cover startup procedures and options, the Operator Command Language, shutdown and restart procedures, and runtime operating techniques. An entire section is devoted to a complete listing and explanation of all diagnostic messages available to the system user.

GH20-0789

BROKERAGE ACCOUNTING SYSTEM ELEMENTS (BASE) VERSION 2 APPLICATION DESCRIPTION - PROGRAM NUMBER 5736-F31  
The Brokerage Accounting System Elements (BASE) program provides a comprehensive foundation for the back office data processing applications required by today's brokerage firms. The extensive series of application areas covered by BASE includes Purchase and Sale (P&S), Stock Record, Dividends, Bookkeeping, Interest, Customer Statements, and such critical cashier functions as Fails and Transfers.

The BASE system is general enough to permit various options and modifications to suit the individual requirements of a particular brokerage firm. However, the processing in the application areas is so extensive that most programs will require little or no modification by the typical brokerage firm. The integrity of the data as it flows through BASE is maintained by a series of balancing checks, tight control over the master files, and extensive input data editing before any transaction processing or file updating occurs.

Files containing pending items and master files are updated daily, producing over 75 reports encompassing the day's trade and related activity.

SH20-0790

SYSTEM/360 REQUIREMENTS PLANNING INTERFACE 5736-M13 PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-M13  
The System/360 Requirements Planning Interface is a program product which, when added to System/360

Requirements Planning (360A-MF-05X), provides the ability to generate connection records. These connection records are required as input to System/360 Capacity Planning--Finite Loading (5736-M12). This manual includes information covering the functions and use of only this program product and must be used in conjunction with SYSTEM/360 REQUIREMENTS PLANNING, PROGRAM DESCRIPTION MANUAL (GH20-0584). It is intended for use by systems analysts, programmers, and operating personnel. The user is presumed to have studied the following manuals:

- SYSTEM/360 REQUIREMENTS PLANNING, APPLICATION DESCRIPTION MANUAL (GH20-0487)
- SYSTEM/360 REQUIREMENTS PLANNING, PROGRAM DESCRIPTION MANUAL (GH20-0584)
- SYSTEM/360 CAPACITY PLANNING--FINITE LOADING, APPLICATION DESCRIPTION MANUAL (GH20-0627)

SH20-0791

SYSTEM/360 REQUIREMENTS PLANNING INTERFACE (5736-M13) OPERATIONS MANUAL  
System/360 Requirements Planning Interface is a program product which, when added to System/360 Requirements Planning (360A-MF-05X) provides the ability to generate connection records. These connection records are required as input to System/360 Capacity Planning -- Finite Loading (5736-M12). This manual contains information regarding preparatory and operating procedures for only this program product. It must be used in conjunction with SYSTEM/360 REQUIREMENTS PLANNING, OPERATIONS MANUAL (GH20-0583).

The information in this manual is intended for systems analysts, programmers, and operating personnel, who are presumed to have studied the following manuals:

- SYSTEM/360 REQUIREMENTS PLANNING, APPLICATION DESCRIPTION MANUAL (GH20-0487)
- SYSTEM/360 REQUIREMENTS PLANNING, PROGRAM DESCRIPTION MANUAL (GH20-0584)

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SYSTEM/360 REQUIREMENTS PLANNING, OPERATIONS MANUAL (GH20-0583)  
SYSTEM/360 CAPACITY PLANNING -- FINITE LOADING, APPLICATION DESCRIPTION MANUAL (GH20-0627)  
SYSTEM/360 REQUIREMENTS PLANNING INTERFACE, PROGRAM DESCRIPTION MANUAL (SH20-0790)

SH20-0792

TARIFF PUBLISHING SYSTEM (BOUND TARIFFS) FORMAT AND STANDARD CODES MANUAL PROGRAM NUMBER 5736-T21  
This manual contains information relating to the concepts, outputs, and processing functions provided by the Tariff Publishing System. It provides complete description of the system features including, formatting, editing, error correction, and maintenance controls.

Prerequisite information is contained in these publications:

1. Tariff Publishing System - Data Preparation Manual (SH20-0798)
2. Tariff Publishing System Program Description/operations Manual (SH20-0812)

It is assumed that the reader of this manual is familiar with the information concerning formats and processing contained in these two publications.

SH20-0795

SYSTEM/360 CAPACITY PLANNING OPERATIONS MANUAL PROGRAM PRODUCT 5736-M11, PROGRAM PRODUCT 5736-M12  
System/360 Capacity Planning consists of programs designed to assist in the implementation of work center loading in manufacturing organizations.

This manual illustrates the control cards for functions that are recommended at various points in the procedure. It also contains a complete list of the console messages generated by System/360 Capacity Planning, as well as information on restart and reentry procedures and program halts requiring operator action.

SH20-0796

SYSTEM/360 CAPACITY PLANNING - INFINITE LOADING SYSTEM/360 CAPACITY PLANNING - FINITE LOADING PROGRAM DESCRIPTION MANUAL PROGRAM NUMBERS 5736-M11, 5736-M12  
This manual includes:

- Customizing procedure for generating the System/360 Capacity Planning programs
- Functional description of all programs.
- Description of all I/O files
- Explanation and operating instructions for the sample problem

SH20-0798

TARIFF PUBLISHING SYSTEM (BOUND TARIFFS) DATA PREPARATION MANUAL 5736-T21  
This manual provides detailed information on the use of IBM 1050 TARIFF ENTRY SYSTEM. It is intended as a reference manual for all persons concerned with preparing tariff and profile entries and implementing all the functions of the system.

It contains sections on input specification format and code definitions and sample presentations for each.

GH20-0802

CONTROL PROGRAM-67 / CAMBRIDGE MONITOR SYSTEM (CP-67/CMS) SYSTEM DESCRIPTION MANUAL - PROGRAM NUMBER 360D-05.2.005  
This manual provides an overview of the features available in the Control Program-67/Cambridge Monitor System (CP-67/CMS), a multi-access system which manages the resources of a System/360 Model 67 so that remote users appear to have a dedicated System/360 at their disposal. Within this 'virtual machine' the user may select the operating system of his choice, subject to certain restrictions noted in this manual. The Control Program (CP-67) component creates the time sharing environment in which many 'virtual 360's' (users) can simultaneously access the system. The Cambridge Monitor System (CMS) component is a conversational operating system, used from a virtual machine, which provides a comprehensive, easy-to-use set of programs (commands) which give the CMS user a wide variety of functions, including the ability to create additional commands or subsystems to satisfy his special requirements.

SH20-0803

CONSUMER GOODS SYSTEM (COGS) FORECASTING (DOS) (OS) OPERATIONS MANUAL, PROGRAM NUMBERS DOS 5736-D32, OS 5734-D33  
This manual provides the user with the information necessary to:

- o Prepare to use the program
- o Operate the program
- o Retrieve and generate the program from the dis-

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tribution tape  
o Retrieve and run the sample problem  
This manual is intended for operating personnel, systems analysts, and programmers.

SH20-0804

SYSTEM/360 CONSUMER GOODS SYSTEM (COGS) FORECASTING PROGRAM DESCRIPTION MANUAL (PROGRAM NUMBER 5736-D32)  
The system embodies a statistical forecasting technique that should be useful to firms in the food, pharmaceutical, soap, and cosmetic industries as well as other industries having seasonal selling patterns.

The objective of this manual is to provide the user with the information necessary to thoroughly understand the concepts and functions of COGS-Forecasting. Major topics covered in this manual are forecasting model selection and system implementation. After reading this manual, the user should be able to:

1. Understand the basic concepts of statistical forecasting and adaptive smoothing
2. Select an appropriate forecasting model and its associated monitoring parameters
3. Utilize the forecasting system as an integral part of a comprehensive inventory control system

The audience for this manual includes operations research personnel, systems analysts, and programmers. This manual should be used in conjunction with the COGS - FORECASTING, APPLICATION DESCRIPTION MANUAL (GH20-0722) and the COGS - FORECASTING, OPERATIONS MANUAL (SH20-0803).

SH20-0805

MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) PROGRAM 5736-H11 OPERATIONS MANUAL

The Medical Information Systems Program contains general executive modules, utilities, and user interfaces that provide the framework for a teleprocessing system using the Disk Operating System/360.

This manual describes the procedures necessary for initial preparation and generation of the MISP programs, tables, and data sets; inclusion of the user application processing programs; initial loading of the user data sets under MISP; operating procedures for the central system; and operation of the terminal devices that are part of a teleprocessing system running under MISP.

GH20-0806

MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) VERSION 2 APPLICATION DESCRIPTION MANUAL, PROGRAM NUMBER 5736-H11

The Medical Information Systems Program (MISP) represents an application of information processing equipment to the development of information systems. MISP is designed to assist in the installation of a teleprocessing system with special facilities that make it particularly useful in a hospital and medical environment (hospital information system), linking the many different service areas in a hospital, where complete and prompt patient care is a requirement.

This manual describes in general the purpose and functions of MISP and its use in the implementation of a hospital information system.

SH20-0807

MEDICAL INFORMATION SYSTEM PROGRAM (MISP) 5736-H11 SYSTEM-PROGRAM PRODUCT INSTALLATION MANUAL

This manual includes various topics to aid the user in the installation of MISP. It is intended as a supplement to the MISP OPERATIONS MANUAL, (SH20-0805).

SH20-0808

MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) 5736-H11 PROGRAM DESCRIPTION MANUAL

This manual contains detailed descriptions of the programs in MISP. The data sets and control blocks used by MISP programs are also described.

SH20-0809

MEDICAL INFORMATION SYSTEM PROGRAM (MISP) 5736-H11 PROGRAMMER'S MANUAL

The purpose of this manual is to describe how to use the Medical Information Systems Program and facilities. A description of each interface to the executive program, each library routine, system symbols, and parameters for system definition are included. In addition, a series of steps is outlined for guidance in construction of application programs using the MISP facilities.

GH20-0810

IBM SYSTEM/360 FILING AND SOURCE DATA ENTRY TECHNIQUES FOR FASTER RETRIEVAL - LOW CORE (FASTER LC) APPLICATION DESCRIPTION - PROGRAM NUMBER 5736-G22

FASTER LC is a teleprocessing monitor for development and implementation of terminal-oriented systems. Terminal

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supported are 1050, 2740-I, 2260 Remote and 2260 Local. The FASTER LC system incorporates the capabilities to install inquiry, update, message routing and data entry applications. The system employs a set of macro-instructions which generate the line control, interface and message processing functions thereby eliminating the need for detailed knowledge of terminal communications control or BTAM. The FASTER LC system is adaptable to a wide variety of applications. The system is designed to operate in a minimum 32K partition of a Model 2025 ED or larger System/360.

The principal features are described, along with a discussion of the system design. Planning information is provided to assist in determining the applicability of FASTER LC to any particular operational environment.

SH20-0811

TRAFFIC PROFILE ANALYSIS SYSTEM 5736-T22, PROGRAM DESCRIPTION AND OPERATION MANUAL

The Traffic Profile Analysis System processes the magnetic tape tariffs produced by the Tariff Publishing System. Shippers and carriers may use the Traffic Profile Analysis System for computerized analysis of tariffs. Program facilities are provided to select tariff matter based on an interest profile.

This manual provides the information necessary to understand the functions of the Traffic Profile Analysis System. Included is the general description of the programs, input/output description, processing description, timing information, programming systems and machine configuration, and a sample program.

The Traffic Profile Analysis System is written in Assembler Language and operates under the IBM System/360 Disk Operating System. The Tariff Publishing System is a prerequisite for the use of the Traffic Profile Analysis System.

The audience for this manual includes system analysis, programmers and operating personnel.

SH20-0812

TARIFF PUBLISHING SYSTEM (BOUND TARIFFS) PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER 5736-T21

The Tariff Publishing System is a computer program designed to assist the tariff publishing agent in supplementing, reissuing, and distributing bound tariffs. The principal outputs of the system are camera-ready tariff material for reproduction and magnetic tapes for computerized analysis of the tariffs.

This manual provides the information necessary to understand the functions of the Tariff Publishing System. Included are a general description of the programs, input/output description, processing description, timing information, programming systems and machine configuration, and a sample program.

The Tariff Publishing System is written in Assembler Language and operates under the IBM System/360 Disk Operating System. The Tariff Publishing System is a prerequisite for the use of the Traffic Profile Analysis System.

The audience for this manual includes system analysts, programmers and operating personnel.

GH20-0813

CFO AUTOCODER TO ASSEMBLER LANGUAGE INSTRUCTION SET TRANSLATOR (CATALIST) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-XX2

The IBM CFO Autocoder to Assembler Language Instruction Set Translator (CATALIST) is a program designed to be used as a conversion aid for the transition from the IBM '62 CFO 1401 Autocoder programs to the IBM System/360. CATALIST attempts to greatly diminish the work associated with the most important transition process - the job of producing System/360 versions of existing 1401 programs. A single execution of the program translates a 1401 Autocoder source program into its System/360 Assembler Language equivalent.

This manual describes the IBM CFO Autocoder to Assembler Language Instruction Set Translator. Knowledge of DOS/360, 1401 Autocoder, and System/360 Assembler Language will assist the reader in understanding the contents.

SH20-0814

CFO AUTOCODER TO ASSEMBLER LANGUAGE INSTRUCTION SET TRANSLATOR (CATALIST) PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER 5736-XX2

This manual contains information relating to the concepts, inputs, outputs, and processing methods used in the IBM CFO Autocoder to Assembler Language Instruction Set Translator (CATALIST). The manual provides the reader with (1) the information required to understand how CATALIST performs translation, (2) the information required to understand and respond to translation diagnostics, and (3) operating information required to set up and execute the CATALIST program.

Knowledge of DOS/360, 1401 Autocoder, and System/360 Assembler Language is required for complete understanding

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of the contents of this manual, whose audience includes systems analysts, programming personnel, and operating personnel.

SH20-0815

MEDICAL INFORMATION SYSTEMS PROGRAM (MISP)  
VERSION TWO - APPLICATION FILE DESCRIPTION MANUAL  
PROGRAM NUMBER 5736-H11

This manual describes suggested data set designs for hospital application areas. In some cases, the organization of the data set may represent the fields and sequence in actual use, but the user is given the flexibility to create his own design as he chooses with the contents of this manual as guidance.

SH20-0820

CONSUMER GOODS SYSTEM (COGS) ALLOCATION (DOS) (OS)  
OPERATIONS MANUAL, PROGRAM NUMBERS DOS-5736-D31, OS-5734-D32  
THIS MANUAL PROVIDES THE USER WITH INFORMATION NECESSARY TO:

- o Prepare to use the program
- o Operate the program
- o Retrieve and generate the program from the distribution tape
- o Retrieve and run the sample problem

This manual is intended for operating personnel, system analysts, and programmers.

SH20-0821

CONSUMER GOODS SYSTEM (COGS) ALLOCATION (DOS) (OS)  
PROGRAM DESCRIPTION, PROGRAM NUMBERS DOS 5736-D31,  
OS 5734-D32

This system is designed to provide control of highly seasonal inventory items. The user specifies parameters and constraints and the system uses variable time interval allocation to generate recommended item order quantities. The system has the additional facility of analyzing when shipment or production is required.

The main objective of the system is to provide item order quantities which are dependent upon time, item, and group constraints. They have no direct interrelationship. The primary advantages of the system are highly flexible allocation alternatives and variations, visual representation of stock status by specifying an allocation alternative with system simulation, and relative ease of installation.

The system can be used in conjunction with a forecasting system to give precise control information and item inventory status records which contain estimates of future demand. Output from the system includes time to order analysis and order quantities.

SH20-0823

IBM CLINICAL LABORATORY MANAGEMENT SYSTEM (CLMS)  
5718-H12 PROGRAM DESCRIPTION MANUAL

The IBM Clinical Laboratory Management system applies the capabilities of the IBM 1800 Data Acquisition and Control System to the problems of the clinical laboratory. It is a system of files and procedures designed to satisfy basic information processing requirements of clinical laboratories. Utilizing the Program Product Clinical Laboratory Data Acquisition System (CLDAS), (5718-H11) or its equivalent for the data acquisition function, it provides a broad base for an information management system. CLMS directs and controls the flow of information from receipt of the initial requisition for a test until the final result has been developed and is ready for reporting. CLMS operates under the IBM 1800 Time-Sharing Executive System (GC26-6990) on the 1800 Data Acquisition and Control System.

This manual gives specific information about CLMS that enables the user to understand the functions of the system and to prepare for and install it.

GH20-0824

INTRODUCTION TO THE REAL-TIME MONITOR

The Real-Time Monitor (RTM) is an OS coresident program that provides fast interrupt response for real-time, event-driven systems. Normal OS jobs continue to run in background mode while the monitor services real-time interrupts and schedules real-time jobs in priority mode. In addition, multiprogramming capability and OS facilities are provided for the real-time jobs. This manual presents the general design concepts of RTM and an overview of those capabilities that enable the user to concurrently run real-time and batch jobs. It is assumed that the reader is familiar with standard OS terminology.

GH20-0825

GENERAL PURPOSE SIMULATION SYSTEM V (GPS)  
APPLICATION DESCRIPTION MANUAL  
PROGRAM NUMBER 5736-XS2

This manual discusses the role of the General Purpose Simulation System (GPSS) in system simulation and is

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designed to help the reader determine its applicability. The manual also discusses the need for simulation, describes the scope and features of General Purpose Simulation System V, and gives some examples. It is addressed to customer executives and others responsible for evaluating new systems.

GH20-0826

GENERAL PURPOSE SIMULATION SYSTEM V (DOS)  
APPLICATION DESCRIPTION MANUAL, PROGRAM NUMBER 5736-XS3

This manual discusses the role of the General Purpose Simulation System (GPSS) in system simulation and is designed to help the reader determine its applicability. The manual also discusses the need for simulation, describes the scope and features of General Purpose Simulation System V, and gives some examples. It is addressed to customer executives and others responsible for evaluating new systems.

SH20-0827

SYSTEM/360 SHOP FLOOR CONTROL 5736-M31 OPERATOR'S MANUAL

System/360 Shop Floor Control consists of planned order release, open order file maintenance, general information retrieval, and work list preparation, each of which contains one or more programs. This program product is designed to assist in the implementation of a shop floor control application in manufacturing organizations.

This manual contains information regarding preparatory and operating procedures for the programs. It includes a complete list of the error messages that can be produced by the programs. The audience for this manual includes customer operating personnel, systems analysts, and programmers. The prerequisite for the use of this manual is a knowledge of System/360 Disk Operating System and the Bill of Material Processor.

SH20-0828

SHOP FLOOR CONTROL, PROGRAM NUMBERS 5736-M31 (DOS),  
5734-M31 (OS) - PROGRAM DESCRIPTION MANUAL

Shop Floor Control is a group of programs designed to provide current information about a manufacturing facility and to assist management in effectively controlling production. The programs provide for the release of orders to the manufacturing facility, the creation and maintenance of records pertaining to the orders, retrieval of orders, report capability on the status of the orders, and the preparation and printing of a work list for shop supervisory personnel.

This manual describes Shop Floor Control and provides information to enable the reader to install the program product. The audience includes system analysts, programmers, and certain operating personnel.

This manual includes (1) customizing procedures for generating the Shop Floor Control program, (2) a functional description of each program, (3) a description of all input/output files, and (4) an explanation of, and operating instructions for, the sample problem.

SH20-0829

SYSTEM/360 DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR  
5736-XX4 PROGRAM DESCRIPTION MANUAL

The System/360 Data Base Organization and Maintenance Processor is a programming system designed to create, maintain, and reorganize the central data base in a multiapplication environment. It provides the framework for a computer-oriented information system. Primarily batch-oriented, the system operates under DOS/360.

This manual provides an overview of the system, specifies the functions, options, and features included in the system, and provides information necessary for implementation. The manual is data processing-oriented with a variety of application examples. The primary audience includes systems analysts and programmers.

This manual includes (1) a brief discussion of the system, (2) an implementation checklist, (3) descriptions of all L/O files, (4) an explanation of, and the operating instructions for, the sample problem, (5) descriptions of all the file organization and maintenance programs and instructions for their modification, and (6) descriptions and logic diagrams for selected user retrieval programs.

This program is a modified and extended version of the System/360 Bill of Material Processor. An appendix contains directions for conversion from System/360 Bill of Material Processor (360A-ME-06X).

SH20-0830

SYSTEM/360 DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR  
5736-XX4 OPERATIONS MANUAL

The System/360 Data Base Organization and Maintenance Processor is a programming system designed to create, maintain, and reorganize the central data base in a multiapplication environment. It provides the framework for a computer-oriented, the system operates under DOS/360. This operations manual contains operating information

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- for the creation, maintenance, and reorganization of the central data files. The primary audience includes operators, systems analysts, and programmers. The items covered in this manual are:
1. Master File Creation and Maintenance Modules
  2. Chain File Creation and Maintenance Modules
  3. Data Base Organization and Maintenance Processor Input/Output Modules to be used with user-prepared retrieval programs
  4. File Reorganization Modules
  5. A set of four Data Base Organization and Maintenance Processor utility programs
  6. Operator console messages
- SH20-0831  
CLINICAL LABORATORY MANAGEMENT SYSTEM (CLMS) 5718-H12 OPERATIONS MANUAL  
This manual is intended for the personnel in charge of operating the system and gives a concise description of the system at the operational level, with sufficient detail for normal operation. (Each of the functions performed by CLMS is described in detail in the Systems Manual.) The present manual refers the user to other manuals, as necessary.
- GH20-0832  
SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM WITH DISK OPERATING SYSTEM (RAX-DOS) PROGRAM NUMBER 5799-AAA  
This program RPQ is designed to allow Remote Access Computing System (RAC) to operate concurrently with Disk Operating System (DOS) in the background on a standard System/360 processor. It enables an installation with a single System/360 processor to provide the time-sharing, terminal operating capabilities of RAX with a minimum impact on DOS operations. This publication contains a description of the system, the equipment requirements, RAX system capabilities, the elements of the RAX Terminal Command Language, and a discussion of the RAX system operation. For description of DOS, see IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEM, CONCEPTS AND FACILITIES (GC24-5830).
- SH20-0833  
SYSTEM/360 TEXT PROCESSOR - PAGINATION/360 PROGRAM DESCRIPTION VOLUME 1 PROGRAM NUMBER 5736-K12  
This publication is divided into three volumes:
- Volume 1 contains general functional and processing descriptions of PAGINATION/360, system requirements, and performance; and detailed functional, operating, and processing descriptions of PAGINATION/360 and its associated utility programs. A glossary is included.
  - Volume 2 contains detailed descriptions of the various command languages, tables, and files that are used by PAGINATION/360.
  - Volume 3 contains the information required by a user to write the input and output modules necessary to interface with PAGINATION/360.
- A detailed knowledge of IBM Disk Operating System operating procedures is a prerequisite for using this publication.
- SH20-0834  
SYSTEM/360 TELE PROCESSOR - PAGINATION/360 PROGRAM DESCRIPTION VOLUME 2 - PROGRAM NUMBER 5736-K12  
This manual contains detailed descriptions of the various command languages, tables, and files that are used by PAGINATION/360. It is designed to give the user a complete picture of the detailed use of these features. Volume 2 contains the following information:
1. CONTROL LANGUAGES - detailed descriptions of the hot type and photocomposition languages.
  2. PAGE MAKEUP LANGUAGE - a detailed description of each page makeup command.
  3. PAGE LAYOUT SPECIFICATIONS - a general discussion of page layout specifications and a detailed description of the Page Format Files.
  4. PAGE STYLE DESCRIPTORS - a detailed description of the Page Style Descriptor Files.
  5. Graphic Descriptors - a detailed description of the Graphic Descriptor Files.
  6. GRAPHIC ARRANGEMENT TABLE - a detailed description of the Graphic Arrangement Tables.
  7. FILES - a detailed description of all records and files in the PAGINATION/360 system.
- SH20-0835  
SYSTEM/360 TELEPROCESSOR - PAGINATION/360 PROCESS DESCRIPTION VOLUME 3 PROGRAM NUMBER 5736-K12  
This volume contains the details necessary for a user to write I/O modules. A general discussion of I/O module requirements is followed by the details concerning input programming and output programming. An appendix comprising all files read or written by the user's I/O module is included.
- SH20-0836  
SYSTEM/360 TELEPROCESSOR - PAGINATION/360 OPERATIONS MANUAL PROGRAM NUMBER 5736-K12  
This publication contains system requirements, preparatory system procedures, a sample problem, and PAGINATION/360 operating procedures. Utility program operating procedures are included in Volume 1 of the Program Description Manual. A detailed knowledge of DOS operating procedures is a prerequisite for using this publication.
- SH20-0837  
SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM WITH DISK OPERATING SYSTEM (RAX-DOS) PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5799-AAA  
This publication provides the information necessary to use the IBM System/360 Remote Access Computing System with Disk Operating System (RAX-DOS). It contains a description of the RAX-DOS systems concept, a discussion of the RAX program functions, the equipment requirements, the RAX Terminal Command Language and a description of RAX terminal operating procedures. For description of DOS, see the following publications:  
IBM System/360 Disk Operating System, System Control and System Service Programs (GC24-5836).  
IBM System/360 Disk Operating System, Data Management Concepts (GC24-3427)
- GH20-0838  
INTRODUCTION TO DATA/360 - DOS PROGRAM NUMBER 5736-XS2  
DATA/360 - DOS is a data entry program written in Assembler Language to operate under the Disk Operating System (DOS). Its purpose is to provide a method of entering data by means of local IBM 2260 Display Stations to IBM 2311 Disk Storage Drives or IBM 2314 Direct Access Storage Facilities and of verifying this data to produce input to a user's program, bypassing all peripheral equipment operations. Anticipated users are those currently using card equipment, magnetic tape recording and/or paper tape recording equipment. The purpose of this publication is to present the inherent functions and capabilities of DATA/360 - DOS. The elaborated program description and the comprehensive input/output descriptions are the major items covered in this publication.
- GH20-0841  
DISPLAY MANAGEMENT SYSTEM APPLICATION DESCRIPTION PROGRAM NUMBER 5734-XC1  
An interactive data processing system is one in which decision-making rests in the hands of qualified individuals who communicate directly with the computer by means of online devices such as the IBM 2260/65 Display Station. The Display Management System (DMS) is a series of application modules, operating under a supervisor, which greatly simplify the complexities of implementing interactive data processing operations that feature the 2260/65 Display Station. The data entry, update, and inquiry capabilities offered by DMS make it possible to implement many new or existing applications in the interactive environment without user programming. With three forms provided by DMS, the user implements his own applications on a customized basis by describing his data files, designing 2260/65 Display Station images (panels) in the language of his own application, and describing the utility functions that are required. An online work order system, such as might be used in a plant maintenance application, is used throughout as an example of the type of application easily implemented under DMS. This manual provides an overview of the application area and describes the functions performed by the system. Customer responsibilities, performance specifications, programming system requirements, and minimum machine configuration are also included.
- SH20-0843  
SYSTEM/360 REMOTE ACCESS COMPUTING WITH DISK OPERATING SYSTEM (RAX-DOS) OPERATIONS MANUAL PROGRAM NUMBER 5799-AAA  
This publication provides the System/360 machine operator with detailed instructions for starting, running, and stopping the Remote Access Computing System with Disk Operating System (RAX-DOS). It includes machine

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requirements, descriptions of RAX online messages and their meanings, and RAX restart procedures. This manual also includes the procedures required for RAX system generation and RAX system generation and RAX library maintenance.

For descriptions of operating and system generation procedures on DOS, see the following publications:  
IBM SYSTEM/360 DISK OPERATING SYSTEM, OPERATING GUIDE (GC24-5022)  
IBM SYSTEM/360 DISK OPERATING SYSTEM, SYSTEM GENERATION AND MAINTENANCE (GC24-5033)

GH20-0844  
MANAGEMENT INFORMATION SYSTEM FOR PUBLIC UTILITIES WITH THE IBM SYSTEM/370

This bulletin explains a system to provide assistance in the formulation and execution of plans in all areas and at all levels of public utility management through the use of management techniques and timely feedback of exception and status reports from previous plans.

SH20-0846  
SYSTEM/360 AGRIBUSINESS MANAGEMENT INFORMATION SYSTEM PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-D51

This manual contains information relating to the concepts, options, inputs, outputs, and processing methods used in the Agribusiness Management Information System (AMIS). This manual provides the reader with (1) a general introduction to AMIS options and processing, (2) specific information on using the system, and (3) considerations for implementing and installing the system.

SH20-0847  
SYSTEM/360 AGRIBUSINESS MANAGEMENT INFORMATION SYSTEM OPERATIONS MANUAL PROGRAM NUMBER 5736-D51

This manual presents the information required to set up the Agribusiness Management Information System (AMIS) and to execute the AMIS programs. The system operates under the IBM System/360 Disk Operating System (DOS). The AMIS programs are presented in the suggested running sequence. The information applicable to each program is presented in a separate section.

This manual is directed to those persons charged with running the system.

GH20-0849  
INTRODUCTION TO MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) - PROGRAM PRODUCT MANUAL - PROGRAM NUMBER 5734-XM4

The Mathematical Programming System - Extended (MPSX) is an IBM Program Product that provides expanded capabilities over the predecessor Mathematical Programming System (MPS/360). The optional Mixed Integer Programming (MIP) feature of MPSX provides the ability to solve mixed integer linear programming problems. The optional Generalized Upper Bounding (GUB) feature of MPSX provides the ability to solve large, specially structured linear programming problems in a particularly efficient manner.

A typical mathematical programming application might include building a mathematical model, finding an optimal solution, determining the effect of changing key data on the optimal solution, computing alternate solutions by systematically varying cost or requirement data, and preparing a management report. Application areas include material allocation, ingredient blending, production planning, investment, capital budgeting, plant/warehouse location, machine loading, work force allocation, production/distribution models, and other optimization areas.

This manual is an overview of the capabilities of MPSX and its optional features, MIP and GUB. Minimum machine configuration, problem capacity and timing considerations are discussed.

GH20-0850  
APL/360 - OS (5734-XM6) AND APL/360 - DOS (5736-XM6)

This publication provides a general introduction to the use, operation, and installation of APL/360. APL/360 is a conversational time-shared terminal system utilizing APL (A Programming Language), a concise notation which makes use of well known mathematical symbols, plus a number of symbols that are used for designating other simple and powerful functions. Because APL is closely related to mathematical notation, and its functions operate on sets of information as well as individual data items, the user can write effectively in this language with a minimum of instruction.

APL/360 is designed to operate under either (a) the IBM System/360 Operating System (OS/360), Multiprogramming with a Fixed Number of Tasks (MFT with subtasking) or Multiprogramming with a Variable Number of Tasks (MVT) or (b) the IBM System/360 Disk Operating System (DOS/360). The manual is in three parts:

Part I describes APL/360 as viewed by a user at a typewriter-like terminal. The statements and commands used to describe the operations to be performed by the

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APL/360 System are summarized.

Part II describes APL/360 as viewed from the central data processing system location. The system features which facilitate the management and operation of an APL/360 System are summarized.

Part III describes the items to be considered in planning for the installation of an APL/360 System. Minimum machine requirements and storage requirements are provided.

SH20-0851  
GENERAL PURPOSE SIMULATION SYSTEM V USER'S MANUAL, PROGRAM NUMBER 5734-XS2

This publication is an extension and amplification of the manual entitled GENERAL PURPOSE SIMULATION SYSTEM V INTRODUCTORY USER'S MANUAL. It provides a detailed description and explanation of the component parts and operation of the GPSS program. Examples illustrating the uses of GPSS entities and the coding of GPSS statements are given in appropriate sections. This manual should enable those involved in simulation projects to construct models using the full capabilities of GPSS.

GH20-0852  
INTRODUCTION TO MINIPERT, PROGRAM NUMBER 5734-XP3

MINIPERT is a conversational, interactive, critical path IBM Program Product that operates under an APL/360 system configuration. The program provides PERT-type information for planning, scheduling or controlling any project by using terminals as the input/output device. It operates on any IBM System 360/OS or DOS system where the program product APL/360-OS (5734-XM1) or APL/360-DOS (5736-XM1) is installed.

MINIPERT places the well established project control technique of PERT in an interactive environment, thus overcoming the traditional turnaround problem experienced in a batched environment. This publication summarizes the highlights of the MINIPERT program.

GH20-0853  
DATA/360-OS - PROGRAM NUMBER 5734-YS3

DATA/360-OS is a data entry system written in Assembler Language to operate under the System/360 Operating System MFT or MVT (OS). Its purpose is to provide a method of entering data by means of local IBM 2260 Display Stations to IBM 2311, 2314, or 3330 direct access storage and of verifying this data to produce input to a user's program, bypassing all peripheral equipment operations. Anticipated users are those currently using card equipment, magnetic tape recording and/or paper tape recording equipment.

The purpose of this publication is to present the inherent functions and capabilities of DATA/360-OS. The elaborated program description and the comprehensive input/output descriptions are the major items covered in this publication.

GH20-0854  
PROCEDURE LIBRARY-MATHEMATICS (PL-MATH), GENERAL INFORMATION MANUAL, PROGRAM NUMBER 5734-XM3

The Procedure Library-Mathematics program (PL-MATH) is a collection of mathematical procedures written in the PL/I language. It consists of input/output-free computational building blocks, written completely in PL/I, which may be combined with a user's input, or computational routines as needed. The procedures in this library may be applied to the solution of many problems in industry, science, and engineering.

This manual presents an introduction to PL-MATH, a list of the capabilities of the library, rules of usage, machine configuration, programming systems, and a list of reference material.

GH20-0855  
INTRODUCTION TO PROJECT MANAGEMENT SYSTEM IV (PMS/IV), PROGRAM PRODUCT MANUAL - PROGRAM NUMBER 5734-XP4

PMS/IV is a highly modular set of computer program routines, each performing one function common to many management applications. It is open-ended - that is, the number of functions under PMS/IV can be expanded and added to. It is versatile - that is, the user can control program logic without resorting to reprogramming. Output reports can be defined with a single set of procedural statements and can be revised with every computer run if required. The computer code itself is written in a way that simplifies modification, if this ever becomes necessary. At present, PMS/IV contains the following four modules:

Network Processor  
Resource Allocation Processor, and  
a versatile Report Processor  
Cost Processor

In suitable combinations these processors will accomplish the data processing required in critical path analysis, PERT, PERT Cost, and resource allocation.

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- GH20-0856  
CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM  
(CP-67/CMS) VERSION 3 OPERATOR'S GUIDE  
 CP-67 is a multiaccess system which allows multiple System/360 operating systems to run under it concurrently in a time-shared mode. These operating systems run in the same manner as they do on a dedicated System/360 computer. Some systems that have run under CP-67 are CMS, CMS Batch, CS, DOS, APL 360, RAX and CP-67.  
 This publication is intended to present to the operations staff responsible for the operation of CP-67, the facilities and responsibilities of the systems operator and administrator. It is divided into two basic parts:  
 (1) the operator's guide, including instructions for system startup, shutdown, and emergency recovery procedures, and  
 (2) instructions on the utilities included with the system, including device-formatting, allocation, and user definition.
- GH20-0857  
CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM  
(CP-67/CMS) VERSION 3 INSTALLATION GUIDE  
 The purpose of this document is to provide the installation with instructions on creating a runnable CP-67/CMS system tailored to his configuration. There are also considerations for tuning the system as well as maintaining both CP-67 and CMS.  
 This manual should be read in its entirety before installing the system, as procedures have changed.
- GH20-0858  
CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM (CP-67/CMS)  
HARDWARE MAINTAINABILITY GUIDE  
PROGRAM NUMBER 360D-05.2.095  
 The CP-67/CMS Hardware Maintainability Guide explains how to run Customer Engineer Diagnostics under CP-67, and describes the error-recording facility in CP-67. Topics discussed under diagnostics include limitations under CP-67, as well as conventions and instructions for running diagnostics under CP-67.  
 Sample terminal sessions for running DHA8 and FRIEND are included.  
 Topics covered under CP-67 Error-Recording Facility are the CP-67 error-recording mechanism, conditions and devices involved in recording, and instructions for retrieval of I/O error, channel check, and machine-check information.
- GH20-0859  
CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM  
(CP-67/CMS) VERSION 3 USER'S GUIDE  
 CP-67/CMS is a general purpose time-sharing system developed for the IBM 360. This guide describes the facilities of CP-67/CMS and provides detailed information about the user commands available and their usage.
- GH20-0860  
CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM  
(CP-67/CMS) VERSION 3 CMS SCRIPT USER'S MANUAL  
 This manual introduces you to the Script manuscript facility that operates under the Control Program-67/Cambridge Monitor System (CP-67/CMS). Script enables you to type in a manuscript, correct it, examine your corrections, and print it out - all at a typewriter terminal - with spacing performed automatically by the system. The spacing feature enables you to type in text lines without regard to margins; your text is automatically formatted to fit within the margin size that you specify, as in book and newspaper printing. Other capabilities of Script include page numbering, page heading, tab setting, indentation, centering, margin setting (top and bottom of page, as well as right and left sides), double spacing, page skipping, line breaking and several special features, such as entering lines from the terminal during manuscript printout. The hard copy, or finished product, can be outputted to either the typewriter terminal or offline printer.  
 Sample documents are provided for practice in creating, editing, and printing a script file.  
 The procedure for logging in from CP-67 (the Control Program) to CMS, and document maintenance within CMS are explained.  
 The Edit facility in CMS is described in some detail.
- SH20-0863  
IBM SYSTEM/360 FILING AND SOURCE DATA ENTRY TECHNIQUES  
FOR EASIER RETRIEVAL-LOW CORE (FASTER LC)  
5736-G22 PROGRAM DESCRIPTION MANUAL  
 FASTER LC is a programming system for retrieving data from indexed-sequential files, and for maintaining such files, by means of remote or local terminal devices. The system procedures are adaptable to a wide variety of applications. FASTER LC incorporates a macro-language which provides for writing message processing programs on a functional level.  
 Through the use of the Basic Telecommunications Access Method, FASTER LC provides line control to support a communication network consisting of combinations of IBM 1050 and IBM 2740-1 typewriter terminals and the IBM 2260 display terminal.  
 FASTER LC operates as a standard job in a single partition under DOS/360, using a minimum of 32K bytes, on a System/360 Model 2025ED or larger.  
 This manual describes the FASTER LC system environment and components. Included are detailed macro instruction descriptions, and user considerations concerning backup/recovery, hardware, and documentation aids.
- SH20-0864  
SYSTEM/360 FILING AND SOURCE DATA ENTRY TECHNIQUES  
FOR EASIER RETRIEVAL-LOW CORE (FASTER LC)  
5736-G22 OPERATIONS MANUAL  
 This publication contains a description of the procedures necessary to implement FASTER LC in a test or on-line environment. Initialization of system files, linkage editing options, and system messages are discussed in addition to the maintenance transaction which is included with the program.
- SH20-0866  
GENERAL PURPOSE SIMULATION SYSTEM V.  
INTRODUCTORY USER'S MANUAL.  
PROGRAM NUMBERS 5734-X52 AND 5736-X53  
 This manual provides a basic introduction to the use of the General Purpose Simulation System (GPSS). It is written for those individuals who have not had previous simulation experience.  
 The information presented is sufficient to enable new users to construct simple models within a short period of time. It is intended for an audience of those persons responsible for evaluating modeling techniques and constructing actual models.  
 Examples of the use of GPSS statements are given throughout the manual. These examples emphasize the basic features of the GPSS program and demonstrate the use of simple GPSS statements. A more complete, detailed description of all GPSS features may be found in the manual entitled GENERAL PURPOSE SIMULATION SYSTEM V USER'S MANUAL (SH20-0851). Users should refer to a copy of the USER'S MANUAL when they begin to write more sophisticated models.
- SH20-0867  
GENERAL PURPOSE SIMULATING SYSTEM V-OS  
(GPSS V-OS) OPERATIONS MANUAL PROGRAM NUMBER 5734-X52  
 This manual contains sufficient information to enable the user to link-edit and incorporate the GPSS program into his system library for subsequent execution under the control of Operating System/360. Detailed examples are given for entering the GPSS program into either a private program library or the OS/360 program library, SYS1.LINKLIB. Other examples illustrate the OS/360 job control language (JCL) statements required to execute models that use various GPSS features which require additional JCL statements.  
 This manual describes and illustrates the quantity of GPSS entities required to fit modeling requirements. The various data sets required by GPSS are also illustrated and described. Explained in detail are several extended features of GPSS: Run Length, LOAD, user-written FORTRAN and PL/I HELP routines, and Auxiliary Storage. Sufficient examples are provided to enable the user to implement these features.
- SH20-0868  
GENERAL PURPOSE SIMULATION SYSTEM V - DOS (GPSS V - DOS)  
OPERATIONS MANUAL, PROGRAM NUMBER 5736-X53  
 This manual contains sufficient information to enable the user to link edit and incorporate the GPSS program into a system for subsequent execution under the control of the Disk Operating System/360. Detailed examples are given to illustrate the DOS job control statements required to execute models that use various features of GPSS.  
 This manual explains the quantity of GPSS entities and the core allocation needed to fit modeling requirements. The various data sets required by GPSS are also listed and described.  
 Several extended features of GPSS are explained in detail. These include the Run Length, Load, and Auxiliary Storage features and user-written FORTRAN and PL/I HELP routines. Sufficient examples are provided to enable the user to implement these features.
- SH20-0870  
SYSTEM/360 FINANCIAL TERMINAL SYSTEM.  
PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 5736-F12  
 The System/360 Financial Terminal System comprises a comprehensive modular set of programs designed to provide an efficient multiprogramming environment for communication-based users. The on-line system functions as an interface between user-written application programs and the DOS/360 multitasking supervisor and BTAM. Thus, high-level control

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of a terminal network with concurrent processing of up to eight message transactions within one DOS partition is provided. To obtain the necessary resources and services for transaction processing, user programs issue PTS and/or DOS macros.

In addition, PTS provides guidelines and off-line programs to facilitate the installation of the on-line system and promote its effective operation.

SH20-0871

SYSTEM/360 FINANCIAL TERMINAL SYSTEM, OPERATIONS MANUAL, PROGRAM NUMBER 5736-F12  
This manual contains system preparation information, procedural descriptions, and operating instructions for all facets of the System/360 Financial Terminal System operation. These include unpacking the machine-readable material comprising FTS, system generation, loading, initialization, testing, on-line control, system performance analysis, and post processing.

For a more comprehensive understanding of FTS, the system operator is directed to the FTS Program Description Manual (SH20-0870).

SH20-0872

SYSTEM/360 FINANCIAL TERMINAL SYSTEM, PROGRAMMER'S MANUAL, PROGRAM NUMBER 5736-F12  
The System/360 Financial Terminal System (PTS), operating with the DOS multitasking supervisor and BTAM in a DOS partition, provides efficient multitasking capabilities to communications-based users.

This manual serves as a guide for designing, writing, and testing transaction processors to be executed under FTS. The FTS environment, requirements, and macro instructions are described along with programming techniques.

GH20-0873

FARE QUOTE/TICKETING APPLICATION DESCRIPTION MANUAL  
This program provides a modular domestic U.S. Airline fare quotation and ticketing system designed to be integrated with the IBM Programmed Airlines Reservation System (PARS). This program operates under the supervision of the Airlines Control Program (ACP).

GH20-0874

COMPUTER SYSTEM SIMULATOR II (CSS II), GENERAL INFORMATION MANUAL, PROGRAM NUMBER 5734-XS5  
This manual contains a general description of the Computer System Simulator, a program defined to analyze the operation of computer systems -- both programs and equipment. The CSS language is presented along with a description and samples of the output obtainable. The scope of the program is indicated by two case studies in which CSS was used; these illustrate the type of problem for which CSS can be useful and the magnitude of the effort required.

SH20-0875

COMPUTER SYSTEM SIMULATOR II (CSS II), PROGRAM DESCRIPTION AND OPERATIONS MANUAL, PROGRAM NUMBER 5734-XS5  
This manual provides a definitive description of the Computer System Simulator II (CSS II), a simulator program for analyzing the performance of computer systems. The structure and language of the program are explained in detail, with some examples showing the application of the program. In addition, the operation procedures for running the program are included. This manual is not intended for the tyro. The reader is assumed to have a thorough understanding of what constitutes a computer system and of the interaction between hardware and software within the system.

GH20-0876

THE REAL-TIME MONITOR (RTM) PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 360A-SV-001  
The Real-Time Monitor (RTM) is co-resident with OS. It provides fast interrupt response for real-time, event-driven systems. Normal OS jobs continue to run while the Monitor services real-time interrupts and schedules real-time jobs in priority mode. In addition, multiprogramming capability and OS facilities are provided for the real-time jobs. This manual presents the general design concepts of RTM and functional capabilities that enable the user to run real-time and non-real-time jobs concurrently. It is assumed that the reader is familiar with standard OS terminology.

GH20-0877

THE REAL-TIME MONITOR (RTM), PROGRAM NUMBER 360A-SV-001 OPERATIONS AND PROGRAMMER'S GUIDE  
The Real-Time Monitor (RTM) is co-resident with OS. It provides fast interrupt response for real-time, event-

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driven systems. Normal OS jobs continue to run in background mode while the Monitor services real-time interrupts and schedules real-time jobs in priority mode. In addition, multiprogramming capability and OS facilities are provided for the real-time jobs. This manual describes the operating instructions, programming services, and the control blocks required to install RTM and to design application programs that run under RTM.

SH20-0879

DATA/360 - DOS CONSOLE OPERATOR'S GUIDE, PROGRAM NUMBER 5736-XS2  
This manual presents (1) a procedure for initializing the DATA/360 system, (2) a description of DATA/360 utilities and procedures for using them, and (3) a complete and detailed description of all files and their associated formats.

GH20-0883

CONSOLIDATED FUNCTIONS ORDINARY II (CFO II) SYSTEM, APPLICATION DESCRIPTION, PROGRAM NUMBER 5736-N13  
CFO II is a proven insurance information systems approach to the maintenance, processing, and servicing of individual life insurance contracts.

CFO II processes both scheduled and nonscheduled transactions, provides figures for annual and interim statement purposes, updates policies with cash values, dividends, and other forms of participation, and updates policies with renewable term premiums. CFO II capabilities provide for policy status on loans, surrenders, and mode premium values.

This manual contains a general description of the insurance functional capabilities of the CFO II system. It is intended to provide the reader with an understanding of the system and its capabilities. It also will serve as a guide for planning the installation of CFO II.

SH20-0885

DATA/360 - DOS TERMINAL OPERATOR'S GUIDE, PROGRAM NUMBER 5736-XS2  
This manual describes the entire command structure for DATA/360. Each command (both primary and secondary) is explained in sufficient detail to enable an experienced keypunch operator to quickly acquire the skills necessary to exploit the advantages offered by the DATA/360 system. This manual is organized to facilitate teaching of inexperienced operators as well as to serve as a reference guide. In addition, the Appendix contains a step-by-step self-tutoring DATA/360 primer.

GH20-0888

BASIC COURTS SYSTEM (BCS) APPLICATION DESCRIPTION MANUAL, PROGRAM NUMBER 5736-G26  
The Basic Courts System (BCS) provides judicial administrators with on-line calendar, case history, name index and identification number index information to assist them in the management of court operations. It is designed to function in criminal and civil courts on general and limited jurisdiction levels.

BCS utilizes the FASTER LC system (Program Product Number 5736-G22) and operates in a 56K program partition (includes FASTER LC) of a Model 2030 F or larger System/360, or a System/370 subject to the compatibility constraints announced for System/370.

This manual describes the features, advantages, and general design of the system. Planning information is also provided.

SH20-0890

APL/360 - OS OPERATIONS AND INSTALLATION MANUAL, PROGRAM NUMBER 5734-XN6  
This manual is in three parts.  
Part I gives instructions for operating the APL/360 time-sharing system. Suggestions for good practice in time-sharing and remote-computing operation are included.  
Part II gives instructions for operating the APL/360 Utility program.  
Part III describes the procedure for incorporating APL into an existing installation. It includes instructions for preparing the OS system for APL, allocating resources, and restoring the distributed APL library. Common problems encountered during system installation are noted and analyzed.

GH20-0892

IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) APPLICATION DESCRIPTION MANUAL, PROGRAM NUMBER 5734-IX2  
This manual surveys the operational concepts and system capabilities of the Generalized Information System, Version 2. The manual introduces the language of GIS/2 and describes the file organization and processing actions supported by GIS/2.  
The Generalized Information System operates under

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- control of the Operating System on System/360 and System/370 and supports a wide variety of applications by providing information-handling capabilities against many typical data base organizations. GIS/2 provides facilities for defining, maintaining, and retrieving data from user files under direction of the using installation and its personnel.
- SH20-0893  
SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM OPERATIONS MANUAL, PROGRAM NUMBER 5736-F32  
 This manual gives instructions for operating the Active Certificate Information (ACIP) from the System/360 console operator's point of view. System/360 operations include ACIP start and stop procedures, control card setup, system generation, and console messages.
- SH20-0894  
SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM TERMINAL OPERATIONS MANUAL PROGRAM NUMBER 5736-F32  
 The Active Certificate Information Program (ACIP) assists the box clerk in the operations of the active box section of the cashier's department. The certificate inventory and summarized pending instructions are maintained on-line and are updated by security move transactions.  
 This manual describes the operations used by a 2260 terminal operator for the ACIP program. It contains an explanation of the features and operating characteristics of the 2260 terminal and a complete description of all transactions with examples of their use. It includes explanations of the types of security records maintained on the master security description (MSD) file, with a description of the denominations in which resources are stored. Also covered are the elements of the MSD record keys with their associated codes.  
 Appendices contain examples of typical transaction response screens and descriptions of the data entry formats for transactions.
- SH20-0895  
SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 5736-F32  
 This manual describes the program functions and the processing performed by the Active Certificate Information Program. All terminal displays and record formats are included with an explanation of their contents. All user program options and user installation requirements are fully discussed.
- GH20-0896  
FORTRAN CONVERSION AID PROGRAM, GENERAL INFORMATION MANUAL PROGRAM NUMBER 5799-AAJ, REFERENCE NUMBER FA1287  
 The FORTRAN Conversion Aid Programming RPQ assists in converting programs written in certain non-System/360 FORTRAN dialects to System/360 executable code. Conversion is accomplished through translation, hand modification, compilation, and object-time library simulation. This programming RPQ is available on special quotation only. This manual briefly describes the major components, capabilities, and limitations of FORTRAN Conversion Aid. Included is a listing of sample input and output for the Translator portion of the program.
- SH20-0897  
FORTRAN CONVERSION AID PROGRAM, PROGRAM DESCRIPTION AND OPERATIONS MANUAL, PROGRAM NUMBER 5799-AAJ, REFERENCE NUMBER FA1287  
 The FORTRAN Conversion Aid Programming RPQ assists in converting programs written in certain non-System/360 FORTRAN dialects to System/360 executable code. Conversion is accomplished through translation, hand modification, compilation, and object-time library simulation. This programming RPQ is available on special quotation only.  
 This manual gives a general overview of the Programming RPQ and its capabilities. It describes the components of FORTRAN Conversion Aid and contains instructions for using it.
- SH20-0898  
PMS IV, COST PROCESSOR, PROGRAM DESCRIPTION AND OPERATIONS PROGRAM PRODUCT MANUAL - PROGRAM NUMBER 5734-XP4  
 This manual describes the Cost Processor, one of the four component processors of PMS IV. It explains how the Cost Processor fits into the system, and what it does. It describes in detail the format of all necessary cards and includes examples of an input deck listing and output reports. Further, it explains how to run the processor in the most economical way, and how to make full use of the processor's facilities to carry out fully satisfactory cost analysis.
- SH20-0899  
PMS IV, NETWORK PROCESSOR, PROGRAM DESCRIPTION AND OPERATIONS MANUAL, PROGRAM NUMBER 5734-XP4  
 This manual provides a detailed description of the Network Processor of PMS IV. It sets out in detail the format of the input cards and the output generated. It explains the methods of calculation used and defines the OS/360 job control needed to run the Network Processor. It illustrates the standard reports and explains how to get the best out of the system.
- SH20-0900  
PROJECT MANAGEMENT SYSTEM IV (PMSIV) RESOURCE ALLOCATION PROCESSOR, PROGRAM DESCRIPTION/ OPERATIONS MANUAL - PROGRAM NUMBER 5734-XP4  
 This manual provides a detailed description of the Resource Allocation Processor of PMSIV. It sets out in detail the output generated and defines the OS/360 job control needed to run the Resource Allocation Processor. The manual also illustrates the standard reports and explains how to get the best out of the system.
- SH20-0901  
PROJECT MANAGEMENT SYSTEM IV (PMS IV) REPORT PROCESSOR PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5734-XP4  
 This manual describes the Report Processor, one of the four component processors of PMS IV. It explains what the Report Processor is, how to use it, and how to run it most efficiently. It gives a complete description of all necessary input cards, and contains sample listings of input decks. It gives extensive guidance, with worked examples, toward modifying the Report Processor to obtain precisely the report required.
- GH20-0903  
IBM DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD IDOS FASTER MTL APPLICATION DESCRIPTION, PROGRAM NUMBER 5736-G24  
 DOS FASTER MT consists of a generalized set of macros and a teleprocessing monitor which aid and simplify the implementation of a teleprocessing system. Terminals supported are 1850, 2740, 2260, and 2265. The DOS FASTER MT System incorporates the capabilities to install inquiry, update, message routing, and data entry applications. The system employs a set of macro instructions that generate the line control, interface, and message processing functions, thereby eliminating the need for detailed knowledge of terminal communications control of BTAM. This capability makes the DOS FASTER MT system adaptable to a wide variety of applications. The system is designed to operate in a minimum 80K partition of a Model 28040 (or larger) System/360 or System/370.  
 The principal features are described, along with a discussion of the system design. Planning information is given to help determine the applicability of DOS FASTER MT to a particular operational environment.
- GH20-0906  
APL/360-OS (5734-XM6), APL/360-DOS (5736-XM6), USER'S MANUAL  
 This publication provides information necessary to use the APL/360 system. It discusses procedures and equipment required for interacting with the system, how to establish connection between terminal and central computer, how to start and end work sessions, and how to apply system control features. Application of the APL language to user problems is thoroughly discussed, and appendices give both elementary and advanced examples of actual terminal sessions.
- SH20-0908  
MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) MIXED INTEGER PROGRAMMING (MIP) PROGRAM DESCRIPTION MANUAL  
 This manual provides necessary information to process mixed integer linear programming problems using MIP, an optional feature of MPSX. As described in this manual, MIP can be used at either the straightforward, advanced, or sophisticated level, each succeeding level offering the user more capability.
- SH20-0909  
DISPLAY MANAGEMENT SYSTEM PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-XC1  
 No abstract available.
- SH20-0910  
INFORMATION MANAGEMENT SYSTEM/360, VERSION 2 SYSTEM/APPLICATION DESIGN GUIDE PROGRAM NUMBER 5734-XK6  
 This manual is a guide for the application analyst or system analyst. Its contents will assist him in the design

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of an IMS/360 system as well as in the design of the application systems which will run under IMS/360.

- SH20-0911  
INFORMATION MANAGEMENT SYSTEM/360, VERSION 2  
SYSTEM PROGRAMMING REFERENCE MANUAL  
PROGRAM NUMBER 5734-XX6  
This manual provides system programming personnel with installation considerations and details for generation (definition) of an IMS/360 system for the user's data processing environment. The security maintenance program is included and message editing capabilities discussed. An IMS/360 sample problem is also provided.
- SH20-0912  
INFORMATION MANAGEMENT SYSTEM/360, VERSION 2  
APPLICATION PROGRAMMING REFERENCE MANUAL  
PROGRAM NUMBER 5734-XX6  
This manual provides the details needed for an application program to be implemented under IMS/360. This manual is directed to the application programming interface (the coding techniques necessary for implementation of a designed application under the IMS/360 control program). The reader should be familiar with the IBM/360 SYSTEM/APPLICATION DESIGN GUIDE (SH20-0910) before reading this document.
- SH20-0913  
INFORMATION MANAGEMENT SYSTEM/360, VERSION 2,  
OPERATOR'S REFERENCE MANUAL  
PROGRAM NUMBER 5734-XX6  
Information Management System/360 (IMS/360) is a processing program (control system) designed to facilitate the implementation of medium to large common data bases in a multi-application environment. This environment is created to accommodate both on-line message processing and conventional batch processing, either separately or concurrently. The system permits the evolutionary expansion of data processing applications from a batch-only to a teleprocessing environment.  
This manual provides the operator with the information associated with operating IMS/360 once the system has been established in a user environment.
- SH20-0914  
INFORMATION MANAGEMENT SYSTEM/360, VERSION 2,  
MESSAGES AND CODES REFERENCE MANUAL,  
PROGRAM NUMBER 5734-XX6  
Information Management System/360 (IMS/360) is a processing program (control system) designed to facilitate the implementation of medium to large common data bases in a multi-application environment. This environment is created to accommodate both on-line message processing and conventional batch processing, either separately or concurrently. The system permits the evolutionary expansion of data processing applications from a batch-only to a teleprocessing environment.  
This manual lists, explains, and suggests appropriate responses to the completion codes, status codes, and messages produced by the IBM-supplied components of the IMS/360 system.
- SH20-0915  
INFORMATION MANAGEMENT SYSTEM/360 VERSION 2  
PROGRAM NUMBER 5734-XX6  
This manual explains how to execute the IMS/360 utilities programs under Operating System/360. Described are data base description generation and program specification block generation, data base recovery and data base reorganization, and system log analysis.
- SH20-0919  
DISPLAY MANAGEMENT SYSTEM OPERATOR'S MANUAL  
PROGRAM NUMBER 5734-XC1  
No abstract available.
- GH20-0920  
CONTROL PROGRAM-67 ONLINE COBOL SYMBOLIC DEBUG  
PROGRAM NUMBER 5799-AAE - APPLICATION DESCRIPTION MANUAL  
The Online COBOL Symbolic Debug Program RPQ for COBOL P and ANS COBOL provides an interactive debugging facility for OS/360 COBOL programmers who operate in the virtual machine environment of CP-67. The programming RPQ is available on special quotation only (see inside front cover). The publication describes the Online COBOL Symbolic Debug system. General design concepts and the interfaces with CP-67, CMS, and OS/360 are discussed. It is assumed that the reader is familiar with the basic concepts of the IBM Control Program-67 (CP-67) and CMS. Both are described in CP-67/CMS System Description Manual, GH20-0892.
- SH20-0921  
CONTROL PROGRAM - 67 ONLINE COBOL SYMBOLIC DEBUG  
USER'S GUIDE - PROGRAM NUMBER 5799-AAE  
This publication describes the facilities of the On-line COBOL Symbolic Debug Program RPQ. This programming RPQ is available on special quotation only (see inside front cover). It is directed to the user of the system and includes all the information necessary to set up and test a COBOL program under On-line COBOL Symbolic Debug. Terminal characteristics, logging procedures, and system messages are also discussed.
- SH20-0922  
CONTROL PROGRAM - 67 ONLINE COBOL SYMBOLIC DEBUG  
INSTALLATION MANUAL, PROGRAM NUMBER 5799-AAE  
This Programming RPQ is designed to allow users of a CP-67 system to debug COBOL programs interactively on a virtual machine which is running OS/360. This programming RPQ is available on special quotation only (see inside front cover).  
This publication describes the installation procedures for On-line COBOL Symbolic Debug. For additional information see IBM CP-67 ONLINE COBOL SYMBOLIC DEBUG, OS/360 IN A VIRTUAL MACHINE.
- SH20-0923  
CONTROL PROGRAM - 67 ONLINE COBOL SYMBOLIC DEBUG  
OPERATING SYSTEM/360 IN A VIRTUAL MACHINE,  
PROGRAM NUMBER 5799-AAE  
This document describes characteristics of the operating environment of the programs of the On-line COBOL Symbolic Debug Program RPQ. This programming RPQ is available on special quotation only (see inside front cover).  
General guidelines for running OS/360 under CP-67 control are given. Specific information is given for running the programs classed as OSALDS in the On-line COBOL Symbolic Debug Program RPQ. This document is directed toward system programmers, and assumes knowledge of OS/360.
- SH20-0924  
MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX),  
OPERATIONS MANUAL - PROGRAM NUMBER 5734-XM4  
This manual contains information on the preparatory and operating procedures for the Mathematical Programming System Extended (MPSX) and its Mixed Integer Programming (MIP) feature.
- SH20-0925  
DATA/360-OS TERMINAL OPERATOR'S GUIDE,  
PROGRAM NUMBER 5734-YS3  
DATA/360 is a method for entering data directly into a computer. This manual describes the commands of DATA/360. This manual is intended for those persons entering and verifying data and can be used as both a learning guide and a reference guide.  
Technical information pertaining to generating and operating the DATA/360-OS system is found in the DATA/360-OS Console Operator's Guide (SH20-0926), and detailed reference information is in the DATA/360-OS System Manual (LY20-0638).
- SH20-0926  
DATA/360-OS CONSOLE OPERATOR'S GUIDE,  
PROGRAM NUMBER 5734-YS3  
This manual contains detailed reference information for using the DATA/360-OS system and includes instructions for:  
o Generating the system  
o Building documents on the master file  
o Operating the system  
o Running the utilities  
o Responding to internal messages  
It is intended for those persons responsible for generating the system (systems programmers and data entry supervisors) and operating the system (computer operators and scheduler and systems personnel).  
Detailed descriptions of the DATA/360-OS files and internals are located in the DATA/360-OS System Manual (LY20-0638). The DATA/360 Terminal Operator's Guide (SH20-0925) describes the IBM 2260 Display Station keyboard and DATA Terminal Operator Language (DATA/TOL) and contains an operator's training guide.
- SH20-0932  
MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX),  
CONTROL LANGUAGE USER'S MANUAL, PROGRAM NUMBER 5734-XM4  
This manual is one of a series of manuals which describe the use of the IBM Mathematical Programming System Extended (MPSX). It is a prerequisite of MPSX LINEAR AND SEPARABLE PROGRAMMING PROGRAM DESCRIPTION MANUAL and assumes that the user is familiar with the INTRODUCTION TO MPSX (GH20-0809) and SYSTEM/360 JOB CONTROL LANGUAGE (GC20-6539). This manual describes the organization of the components

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- of MPSX and their interface with Operating System/360 (OS/360). It also describes in detail the control language used to communicate a solution strategy for solving a mathematical programming problem to MPSX, and the OS/360 job control language statements necessary to execute MPSX.
- GH20-0935  
IBM FASHION REPORTER, APPLICATION DESCRIPTION MANUAL, PROGRAM PRODUCT - PROGRAM NUMBER 5736-D11 DISTRIBUTION RETAIL 5736-D11  
IBM Fashion Reporter is designed to assist the retail merchant in maintaining accurate inventory records and to provide merchandise operating reports. The reports provided are a stock status, a class/priceline, a style page, and an aging report.  
The user controls the level of detail for stock records and reporting criteria. It is primarily designed for fashion/softgoods merchandise reporting.  
IBM Fashion Reporter Program Number 5736-D11 consists of a group of programs designed for the implementation of this application on IBM System/360 using Disk Operating System (DOS) or on IBM System/370 subject to the compatibility constraints announced for System/370. System/370 support will be concurrent with the availability of the DOS release supporting System/370.  
This Application Description Manual includes a general description of these programs, the machine configuration needed to run them, general system charts, and sample reports. A general discussion of the retail environment is included.  
The manual is intended for use in determining the applicability of this program product and for planning its implementation. The audience includes retail merchandise management and data processing personnel.
- SH20-0936  
CONSOLIDATED FUNCTIONS ORDINARY II (CFO II) SYSTEM PROGRAM DESCRIPTION MANUAL - VOLUME III - MISCELLANEOUS PROGRAM DATA - PROGRAM NUMBER 5736-N13  
This preliminary manual contains information for use in advanced planning and implementing Consolidated Functions Ordinary II (CFO II).  
Part I of this manual contains the formats of the input, output, rate file, and miscellaneous CFO II records.  
Part II contains descriptions of customer constants, customer tables, transaction codes, preparation of input and rate file data, and output records.
- SH20-0937  
CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII) MISCELLANEOUS PROGRAM DATA, PROGRAM DESCRIPTION MANUAL VOLUME III - PROGRAM NUMBER 5736-N13  
Part I of this manual contains the formats of the input, output, rate file, and miscellaneous CFO II records. Part II contains descriptions of customer constants, customer tables, transaction codes, preparation of input and rate file data, and output records.
- SH20-0938  
APL/360 - DOS OPERATIONS AND INSTALLATION MANUAL, PROGRAM NUMBER 5736-XM6  
This manual is in three parts.  
Part I gives instructions for operating the APL/360 time-sharing system. Suggestions for good practice in time-sharing and remote-computing operation are included.  
Part II gives instructions for operating the APL/360 utility programs.  
Part III describes the procedure for incorporating APL into an existing installation. It includes instructions for preparing the HOST system for APL, allocating resources, and restoring the APL distributed library. Common problems encountered during system installation are noted and analyzed.
- SH20-0959  
MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) MESSAGE MANUAL, PROGRAM NUMBER 5734-XM4  
This manual contains the messages generated by the procedures and subroutines of the Mathematical Programming System Extended and its Mixed Integer Programming Feature (MIP).
- SH20-0960  
MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) READ COMMUNICATIONS FORMAT (READCOMM) PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 5734-XM4  
This manual provides the system user with the information necessary to use the Read Communications Format (READCOMM) feature of MPSX. READCOMM is a subroutine that enables the user to augment MPSX with procedures written in the FORTRAN language.  
This manual assumes that the user is familiar with the INTRODUCTION TO MPSX (GH20-0649), the MPSX CONTROL
- LANGUAGE USER'S MANUAL (SH20-0932), the MPSX LINEAR AND SEPARABLE PROGRAMMING PROGRAM DESCRIPTION MANUAL and the FORTRAN programming language.
- GH20-0961  
BILL PROCESSOR SYSTEMS - IMS/360 BRIDGE, APPLICATION DESCRIPTION MANUAL, PROGRAM NUMBER 5734-XX9  
This program product is designed to allow a user of a DOS or OS bill processor system to implement Information Management System/360 (IMS/360) Version 2 Data Base System with minimal changes to programs accessing bill processor system files. It provides the necessary logic to:  
- Unload the bill processor system files into a format suitable for loading as IMS/360 data bases  
- Load the unloaded bill processor system files as IMS/360 hierarchic direct data bases  
- Interpret bill processor system calls and converts them to IMS/360 calls to perform the same logical function against the data bases  
This manual contains a general description of the programs, the machine configuration, and the general system charts for the program product. It is intended for use in determining the applicability of the program product and in planning for its implementation. The audience includes customer executives, systems analysts, and programmers. Knowledge of the concepts and terminology discussed in the INFORMATION MANAGEMENT SYSTEM/360 VERSION 2 GENERAL INFORMATION MANUAL (GH20-0765) is a prerequisite to an understanding of this manual.
- SH20-0963  
BASIC COURTS SYSTEM - PROGRAM PRODUCT DESCRIPTION MANUAL, PROGRAM PRODUCT 5736-G26  
No abstract available.
- SH20-0964  
BASIC COURTS SYSTEM PROGRAM PRODUCT OPERATIONS MANUAL, PROGRAM NUMBER 5736-G26  
No abstract available.
- GH20-0967  
SYSTEM DESCRIPTION MANUAL FOR OS/HVT WITH RESOURCE SECURITY - PROGRAM NUMBER 360A-SV-007  
This manual describes the Resource Security feature to Operating System/360-HVT. The feature has been developed to help ensure the security and privacy of data stored in systems such as OS/HVT.
- SH20-0968  
MPSX LINEAR AND SEPARABLE PROGRAMMING, PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 5734-XM4  
This manual provides the system user with the information required to prepare input data and control cards and to interpret the system's output. It is a basic reference document for any MPSX user. All procedures are explained.
- GH20-0970  
BIBLIOGRAPHY OF APPLICATION PUBLICATIONS MEDICAL INDUSTRIES  
The purpose of this bibliography is to list and categorize IBM application publications that are pertinent to the medical industry.  
A periodic Bibliography of Application Publications (BAP) Newsletter is published to keep the bibliography up to date.
- SH20-0978 \*N  
OS CAPACITY PLANNING - INFINITE LOADING, OS CAPACITY PLANNING - FINITE LOADING, OPERATIONS MANUAL, PROGRAM NUMBERS 5734-M53 AND 5734-M54  
Capacity Planning consists of programs designed to assist in the implementation of work center loading in manufacturing organizations.  
This manual contains information regarding procedures for the preparation and operation of the programs, including sample job control cards for link editing and executing all programs. Also included is a complete list of the messages that can be produced by the programs.  
An explanation of the sample problem and the operating procedures are also provided.  
The audience for this manual includes operating personnel, systems analysts, and programmers.
- SH20-0979  
FARE QUOTE/ISSUE TICKET USER'S GUIDE, PROGRAM NUMBER 5736-T11  
This document describes the agent terminal inputs required

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- to automatically price and print, on demand, standard airline tickets based on Passenger Name Record (PNR) information, and the resulting responses.
- SH20-0980  
TARIFF MAINTENANCE USER'S GUIDE, PROGRAM NUMBER 5736-T11  
This document describes the process required to create and maintain on-line records for the fare quote and ticketing packages:  
o Input Preparation  
o Error List Interpretation  
o General Process Flow
- SH20-0981  
FARE QUOTE/TICKETING SYSTEM IMPLEMENTATION GUIDE, PROGRAM NUMBER 5736-T11  
This document describes the tasks necessary to integrate the Fare Quote/Ticketing package into an existing Programmed Airline Reservation System (PARS) installation.
- SH20-0982  
TARIFF MAINTENANCE OPERATOR'S GUIDE, PROGRAM NUMBER 5736-T11  
This manual describes the control cards that must be provided by the programmer for compilation and execution of a program written using 1130 COBOL. Additionally, programming suggestions, techniques, and certain language features and capabilities are described in some detail to assist programmers in understanding compilation execution results. 1130 COBOL is a defined subset of American National Standard COBOL (formerly USA Standard COBOL).
- GH20-0983  
ELECTRONIC CIRCUIT ANALYSIS PROGRAM II (ECAP II) FOR SYSTEM/360 AND 1130 COMPUTING SYSTEM APPLICATION DESCRIPTION MANUAL  
These program products provide engineers and scientists with powerful tools for performing direct current (DC) and transient analysis of linear and nonlinear electrical networks, or analysis of any physical system that may be represented by a network model. The programs provide a simple, user-oriented input language for describing the network components and their interconnections.  
A model library feature stores models of commonly used devices and/or circuits for recall in network problems. Through the use of improved analytic and programming techniques, much larger problems can be analyzed and in less time than has heretofore been possible.  
This manual contains a general description of the application, the machine configuration requirements, an overall systems chart, and a sample problem which illustrates input and output, and demonstrates the system's capabilities and techniques for problem solving.
- SH20-0985  
PROCEDURE LIBRARY - MATHEMATICS (PL-MATH) PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 5734-XM3  
The Procedure Library - Mathematics (PL-MATH) is a collection of mathematical procedures written in the PL/I language. It consists of input/output-free computational building blocks, written completely in PL/I, which may be combined with a user's input, output, or computational routines as needed. The procedures in this library may be applied to the solution of many problems in industry, science, and engineering.  
This manual contains sufficient information to permit the reader to understand and use the Procedure Library - Mathematics.
- SH20-0986  
OS SHOP FLOOR CONTROL OPERATIONS MANUAL PROGRAM NUMBER 5734-M31  
OS Shop Floor Control consists of programs designed to handle planned order release, open-order file maintenance, general information retrieval, and work list preparation. Each application consists of one or more programs. This program product is designed to assist in the implementation of a shop floor control application in manufacturing organizations.  
This manual contains information regarding preparatory and operating procedures for the programs. It includes a complete list of the error messages that can be produced by the programs. The audience for this manual includes customer operating personnel, systems analysts, and programmers. The prerequisite for the use of this manual is a knowledge of the Operating System and the Chained File Management System of OS/360 Requirements Planning.
- GH20-0987  
COURSEWRITER III, VERSION 3 APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS 5734-E13, 5736-E11  
This publication describes the Coursewriter III, Version 3 system. Included are comments on the value, range, and the capabilities of computer-assisted instruction systems in general, as well as descriptive material relating to the computing equipment and programming systems used.
- SH20-0988 \*N  
PROCEDURE LIBRARY - MATHEMATICS (PL-MATH) OPERATIONS MANUAL, PROGRAM NUMBER 5734-XM3  
This manual provides the user with preparatory and operating procedures for the PL-MATH library.
- SH20-0995 \*N  
MINIPERT PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER 5734-XP3  
This manual contains detailed information for using the MINIPERT Program Product (5734-XP3).
- SH20-0997  
BROKERAGE ACCOUNTING SYSTEM ELEMENTS (BASE) VERSION 2 PROGRAM DESCRIPTION MANUAL VOLUME 1: NARRATIVE PROGRAM NUMBER 5736-F31  
This manual contains a detailed description of the Brokerage Accounting System Elements (BASE) system from the point of view of the user. The BASE system is composed of a number comprehensive foundation for back office data processing applications in today's brokerage firm. Both the overall system and the individual programs are discussed in this volume, together with the production of, and printer layouts for, the more than 75 BASE reports associated with daily security activity.  
Application areas covered by BASE include Purchase and Sale (P&S), Stock Record, Dividends, Bookkeeping, Interest, Customer Statements, and such critical Cashier functions as Fails and Transfers. The BASE system is general enough to permit various options and modifications to suit the individual requirements of a particular brokerage firm. However, the processing in the application areas is extensive so that most programs will require little or no modification by the typical brokerage firm.  
This manual should be used in conjunction with Volume 2 (SH20-0998), which contains detailed information on the BASE system record layouts.
- SH20-0998 see page 228
- SH20-0999  
BROKERAGE ACCOUNTING SYSTEM ELEMENTS (BASE) VERSION 2 PROGRAM PRODUCT MANUAL - PROGRAM NUMBER 5736-F31  
This manual contains information on the generation and operation of the Brokerage Accounting System Elements (BASE) system. It is intended to be read in conjunction with the other documentation on the BASE system.  
The BASE system comprises a number of closely inter-related programs that provide a comprehensive foundation for back office data processing applications in today's brokerage firm. Application areas covered by BASE include Purchase and Sales (P&S), Stock Record, Dividends, Bookkeeping, Interest, Customer Statements, and such critical Cashier functions as Fails and Transfers. The BASE system is general enough to permit various options and modifications to suit the individual requirements of a particular brokerage firm. However, the processing in the application areas is extensive so that most programs will require little or no modification by the typical brokerage firm.  
The manual contains information that the user must take into account before doing a system generation for BASE. It also contains operational information for BASE system generation and daily operating procedures. A glossary and a sample problem are included at the end of the manual.
- GH20-1002  
BUDGET ACCOUNTING INFORMATION SYSTEM (BACIS) FOR PUBLIC INSTITUTIONS - GENERAL INFORMATION MANUAL PROGRAM NUMBER 5736-G25  
BACIS performs budget preparation and appropriation accounting applications for public institutions. This general information manual describes (1) the purpose, extent of coverage, and advantages offered by this program product; (2) the budget preparation and appropriation accounting features that have been implemented; (3) source data entry; (4) control and audit procedures; (5) data processing facilities; and (6) installation planning considerations. It provides customer executives, systems analysts, and programmers with the basic information they need regarding this program product.
- SH20-1007  
INFORMATION MANAGEMENT SYSTEM/360 VERSION 2 MASTER INDEX PROGRAM NUMBER 5734-XX6  
This is a consolidated alphabetic index to all the documents in the set of eleven IMS/360 Version 2 manuals. The titles

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of the individual manuals, along with abbreviated titles and order numbers, are as follows:  
 General Information Manual - GIM (GH20-0765)

System/Application Design Guide - SADG (SH20-0910)

Application Programming Reference Manual - APRM (SH20-0912)

System Programming Reference Manual - SPRM (SH20-0911)

Operator's Reference Manual OPRM (SH20-0913)

Utilities Reference Manual - UTRM (SH20-0915)

Messages and Codes Reference Manual - M & C (SH20-0914)

System Manual, Volume I - Text - SM (LY20-0629)

System Manual, Volume II - Flowcharts - SM-II (LY20-0630)

System Manual, Volume III - DP Microfiche - SM III (LYB0-0631)

System Manual, Volume IV - DC Microfiche - SM-IV (LYB0-0632)

The reader's attention is called to the fact that many of the commas in the index are used in the SORT program and do not necessarily indicate a reversal of word sequence.

GH20-1008

**CHECK PROCESSING CONTROL SYSTEM (CPCS)** \*N  
**GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5734-F11**  
 The IBM Check Processing Control System (CPCS) is designed to perform the processing functions associated with entry, distribution, proof, adjustment, and control of Magnetic Ink Character Recognition documents in commercial or Federal Reserve banks. Advanced check processing techniques are used to provide a system accommodating a wide range of check handling requirements. Control of data is maintained from original log-in of items through preparation of cash letters and kill lists. A powerful data base facility permits user extension into related application areas such as proof of deposit and float analysis.

This publication describes the features of the IBM Check Processing Control System and is designed to give the reader an overall knowledge of the system without reference to program detail.

SH20-1009

**COURSEWRITER III, VERSION 3 AUTHOR'S GUIDE - OPERATING SYSTEM AND DISK OPERATING SYSTEM**  
**PROGRAM NUMBERS 5734-E13, 5736-E11**

This publication describes the Coursewriter III, Version 3 language from an author's viewpoint. The language and author commands are presented in detail. Included with the description of each operation code and author command are examples of their use and possible error messages. Conversational sequences between computer and author are included for further assistance. Additional course facilities are also described, and examples of their use are given.

The reader with no prior Coursewriter III language experience is referred to Coursewriter III, Version 3 Student Text (6C20-1744). This publication is intended for use as a reference manual.

Experience with computers is not required to understand the information in this publication. However, new authors should receive instruction in the use of the terminal they are using before preparing course material.

Operational characteristics of all Coursewriter III, Version 3 terminals are contained in Coursewriter III, Version 3 Student/Monitor User's Guide (SH20-1010).

SH20-1010

**COURSEWRITER III, VERSION 3 STUDENT/MONITOR USER'S GUIDE OPERATING SYSTEM AND DISK OPERATING SYSTEM**  
**PROGRAM NUMBERS 5734-E13, 5736-E11**

This publication describes Coursewriter III, Version 3, terminals as used with the Coursewriter III system.

The publication contains necessary information for the student and monitor to use the terminals to receive course material from the computer and to monitor results. Also described are the standard terminal features and operation.

SH20-1011

**COURSEWRITER III, VERSION 3 SUPERVISOR'S GUIDE OPERATING SYSTEM AND DISK OPERATING SYSTEM**  
**PROGRAM NUMBERS 5734-E13, 5736-E11**

This publication describes operations to be performed by the Coursewriter III System supervisor. These include:

- o An introduction section describing supervisor operations.
- o Complete descriptions of all supervisor commands including examples and command sequences
- o An IBM terminal code table

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The publication is intended for use as a reference manual and assumes prior Coursewriter III knowledge.

SH20-1012

**COURSEWRITER III, VERSION 3 OPERATOR'S GUIDE DISK OPERATING SYSTEM - PROGRAM NUMBERS 5736-E11**

This publication describes operations to be performed by the Coursewriter III System console operator. These include:

- o A brief section on system components with a sample machine configuration
- o A detailed step-by-step procedure to prepare the Coursewriter III, Version 3 System
- o IBM terminal line code and EBCDIC tables

Prior knowledge of Disk Operating System and Basic Telecommunications Access Method operating procedures is assumed.

SH20-1015

**ELECTRONIC CIRCUIT ANALYSIS PROGRAM II (ECAP II) FOR THE IBM OPERATING SYSTEM AND 1130 COMPUTING SYSTEM**  
**PROGRAM DESCRIPTION MANUAL - PROGRAM NUMBERS 5734-EE1, 5711-EE1**

ECAP II is an IBM program which performs DC and transient analysis of linear and nonlinear electronic circuits. It provides a user-oriented input language that permits a circuit designer to describe a circuit using familiar electrical terminology.

This manual is intended for the program user (circuit designer). It contains a general description of the program's capabilities and a detailed description of the input language. A description of the mathematical techniques employed by the program is provided in the appendix.

SH20-1016

**CONSOLIDATED FUNCTIONS ORDINARY II SYSTEM (CFOII) OPERATIONS MANUAL - PROGRAM NUMBER 5736-N13**

This manual presents the information required to set up the Consolidated Functions Ordinary II (CFO II) system and to execute the CFO II programs. This system operates under (1) the IBM System/360 Model 20 TPS (Tape Programming System), (2) IBM System/360 Model 20 DPS (Disk Programming System), (3) IBM System/360 DOS (Disk Operating System), (4) IBM System/360 OS (Operating System), or (5) Compatible System/370's. The CFO II programs are presented in the suggested running sequence. Suggestions for integrating user programs with CFO II are also made. The information applicable to all CFO II programs is presented once at the beginning of this manual. Following that information is a control card description, and console operating, message, error, restart, and external control information for each CFO II program under TPS/DPS, DOS, and OS. Operating instructions for the CFO II maintenance utility program are also in this manual.

SH20-1017

**CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII) UTILITY PROGRAM DESCRIPTION MANUAL**  
**PROGRAM NUMBER 5736-N13**

The CFO II maintenance utility program maintains CFO II source programs and CFO II macros on tape. This program is written entirely in Assembler Language.

The CFO II conversion utility program reformats data tapes processed by \*62 CFO to the format processed by CFO II. This program is written entirely in DOS Assembler Language.

GH20-1021

**OS/MVT WITH RESOURCE SECURITY INSTALLATION AND SYSTEM PROGRAMMERS GUIDE - PROGRAM NUMBER 360A-SV-007**

This publication contains information relating to the installation of the IBM Resource Security System (RSS) with OS/360 MVT and methods necessary to interface RSS to a terminal environment.

Additional information is provided to aid the System Programmer in performing those services which might be requested by the Security Office.

SH20-1022

**COURSEWRITER III/OS VERSION 3 - OPERATOR'S GUIDE**  
**PROGRAM NUMBER 5734-E13**

This publication describes operations to be performed by the Coursewriter III System console operator. These include:

1. A brief section on system components with a sample machine configuration.
2. A detailed step-by-step procedure to prepare and install the Coursewriter III, Version 3 System.
3. Job control language example sequences. The notation used in these sequences may require change to accommodate the user's installation. Refer to IBM System/360 Operating System Job

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- Control Language Reference (GC28-6704).  
4. Code table for terminals.
- Prior knowledge of Operating System and Basic Telecommunications Access Method operating procedures is assumed.
- SH20-1024  
CONSOLIDATED FUNCTIONS ORDINARY II (CFO II)  
PROGRAM DESCRIPTION MANUAL - VOLUME I  
PROCESSING DESCRIPTION - PROGRAM NUMBER 5736-N13  
The purpose of this manual is to provide sufficient information to enable the user to understand the concepts, input, output, and processing of the Consolidated Functions Ordinary II (CFO II) system.  
The CFO II system represents a successfully proven information systems approach to the maintenance, processing, and servicing of individual life insurance contracts. This manual provides the information required to understand the functions of CFO II and considerations for its implementation. It is also designed to serve as a guide to the user of other CFO II documentation.  
Processing Description, Volume I of the program description manual, contains a system-oriented description of CFO II and serves as an installation guide. Volume II, the Policy Master Record Code Book, contains a detailed description of the contents of the policy master record. Volume III, Miscellaneous Program Data, contains formats and descriptions of frequently used input and output records and associated rate files.
- SH20-1025  
ELECTRONIC CIRCUIT ANALYSIS PROGRAM II (ECAP II) FOR THE IBM OPERATING SYSTEM - OPERATIONS MANUAL  
PROGRAM NUMBER 5734-E81  
This manual contains procedures for installing and operating the Electronic Circuit Analysis Program II (ECAP II). In addition, instructions are given for adding user-written subprograms, and diagnostic messages are explained.
- GH20-1027  
STAT/BASIC FOR SYSTEM/3 AND ITP - GENERAL INFORMATION MANUAL  
PROGRAM NUMBERS 5703-XA1, 5734-XA3  
STAT/BASIC is a comprehensive set of interactive statistical programs for System/3 Model 6 and ITP (DOS, OS, or TSO). It consists of 40 BASIC programs, providing the user with procedures for data generation, elementary statistics, regression and correlation analysis, multivariate analysis, analysis of variance, nonparametric statistics, time series analysis, and biostatistics. The interactive features include instructional messages, flexible control of calculations, extensive error checking, and data editing.  
This manual provides an overview of STAT/BASIC, describing the program features, usage, maximum problem sizes, precision, timing, system requirements, and customer responsibilities. It also includes a sample problem to illustrate the use of STAT/BASIC.
- GH20-1028  
CUSTOMER INFORMATION CONTROL SYSTEM (CICS) DOS-ENTRY (CICS/DOS) DOS-STANDARD (CICS/DOSS) OS-STANDARD V2 (CICS/OS) GENERAL INFORMATION MANUAL  
PROGRAM NUMBERS 5734-XX7, 5736-XX6, 5736-XX7  
The IBM Customer Information Control System (CICS) is a transaction-oriented, multiapplication data base/data communication interface between a System/360 or System/370 operating system and user-written application programs. Applicable to most online systems, CICS provides many of the facilities necessary for standard terminal applications: message switching, inquiry, data collection, order entry, and conversational data entry.  
CICS is available in three systems--two for DOS users and one for OS USERS. Because the two CICS/DOS systems are compatible with each other and with the CICS/OS system, it is possible to start with a small DOS data base/data communication configuration and move up through DOS into OS.  
This manual is designed for persons interested in a general description of CICS and its data base/data communication capabilities.
- GH20-1029  
CONTROL PROGRAM-67/CAMBRIDGE MONITOR SYSTEM (CP-67/CMS) VERSION 3 - PROGRAM MANUAL - PROGRAM NUMBER 360D-05.2.005  
General guidelines for running S/360 operating systems under CP-67 are discussed in this manual. The main orientation is toward OS/360, although some other systems characteristics the CP-67 utility programs MINIDASD and SAVEOS.  
This document is directed toward system programmers, and assumes knowledge of OS/360 as well as CP-67/CMS.
- SH20-1030  
IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2)  
PROGRAM DESCRIPTION MANUAL, VOLUME 1: SYSTEM OVERVIEW AND CONTROL - PROGRAM PRODUCT MANUAL  
PROGRAM NUMBER 5734-XX1  
The IBM Generalized Information System, Version 2, abbreviated GIS/2, consists of an integrated set of programs to provide general-purpose information handling. User input statements initiate and direct the system functions of creating, querying, and maintaining formatted data files variously structured. GIS routines are completely coded in the Assembler Language and operate under the overall control of OS with MFT or MVT.  
This manual is presented in three volumes, the first of which describes the GIS monitor program and the capabilities associated with it. Data Description (file definition) facilities and Procedural Language facilities are specified in Volumes 2 and 3, respectively.
- GH20-1031  
IBM OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD (OS FASTER MT) GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5734-G21  
OS FASTER MT is a generalized set of macros and a tele-processing monitor which aid in and simplify the implementation of a teleprocessing system. Terminals supported are IBM 1050, 2740, 2260R, and 2265. The system incorporates facilities for installing inquiry, update, message routing, and data entry applications. OS FASTER MT employs a set of macro instructions that generate the line thereby eliminating the need for a detailed knowledge of BTAM. This macro-instruction capability makes the system adaptable to a wide variety of applications. The program is designed to operate in a minimum main storage allocation of 128K bytes on a Model 406P or larger System/360, or on a Model 1356F or larger System/370.  
The principal features are described, along with a discussion of the system design. Planning information is provided to assist in determining the applicability of OS FASTER MT to any particular operational environment.
- SH20-1032  
IBM GENERALIZED INFORMATION SYSTEM, VERSION 2 (GIS/2) OPERATIONS MANUAL - PROGRAM NUMBER 5734-XX1  
This manual addresses operations personnel intending to run the Generalized Information System, Version 2 (GIS/2), under the Operating System with Multiprogramming with a Fixed Number of Tasks or Multiprogramming with a Variable Number of Tasks. Contents include SYSGEN procedures, execution procedures, and diagnostic messages available to the system user.
- SH20-1033  
GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) VOLUME 3, PROCEDURAL LANGUAGE - PROGRAM DESCRIPTION MANUAL  
PROGRAM NUMBER 5734-XX1  
This manual describes the executive-information handling capabilities of statements written in the procedural language of the Generalized Information System, Version 2. Generic statement formats, examples, and detailed constraints specify the syntax and use of the various task statements.  
Although the abbreviated title GIS/2 refers formally to version 2 of an earlier GIS release, the expressions GIS and GIS/2 are synonymous as they may appear herein.
- SH20-1034  
CUSTOMER INFORMATION CONTROL SYSTEM (CICS) OPERATIONS GUIDE - PROGRAM NUMBERS DOS-ENTRY 5736-XX6 DOS-STANDARD 5736-XX7  
The IBM Customer Information Control System (CICS) is a highly responsive, transaction-oriented, multiapplication data base/data communication interface between a System/360 or System/370 operating system and user-written application programs. In addition to the functions required for inquiry and conversational data entry, this open-ended, table-controlled, event-driven system provides many of the facilities necessary for standard terminal applications such as message switching, broadcasting, data collection, and order distribution.  
CICS is available in three systems--two for DOS users and one for OS users. Because the two CICS/DOS systems are compatible with each other and with the CICS/OS system, it is possible to start with a small data base/data communication configuration and move up through DOS into OS.  
This manual provides information of interest to persons responsible for the definition, preparation, and execution of CICS. Included is the information necessary to generate and operate CICS.
- GH20-1035  
PLANNING SYSTEM GENERATOR II (PSGII) GENERAL INFORMATION MANUAL PROGRAM NUMBER 5734-XT1  
Planning Systems Generator II (PSGII) gives the user the

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means to rapidly produce and evaluate a variety of financial plans. It offers the user a simple method for organizing planning data, establishing computational logic to be applied to the data, and for generating data displays and reports.

PSG II may be applied to the solution of planning problems for financial management and also for any division or department of a company with a planning function (such as, personnel or manpower allocations, marketing projections, short-range budgeting, etc.).

This manual contains an introduction to BSG II, as well as a discussion of PSG II capabilities, usage, required systems, reference material, and a sample problem. The PSG II OS and the PSG II DOS programs have virtually the same capabilities. The minimum partition size requirement has been reduced from 130K in the OS program to 100K in the DOS program. In order to achieve this reduction for the DOS program, it was necessary to reduce the number of data lines that can be processed. Also, some facilities of the OS program were deleted or modified for the DOS program.

GH20-1036

DATA/360 OS II APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5734-XS8

DATA/360 OS-II is a key-to-disk data entry system designed to operate under the System/360 Operating System MFT II or MVT. Its purpose is to provide a method of entering data by means of local IBM 2260 and local IBM 3277 Display Stations to IBM 2311, 2314, or 3330 direct access storage devices and of verifying this data to produce input to a user's program, bypassing all peripheral equipment operations. Anticipated users are those currently using card equipment, magnetic tape, and/or paper tape recording equipment.

The purpose of this publication is to present the functions and capabilities of DATA/360 OS-II, including input/output descriptions, report formats, machine requirements, and user responsibilities.

GH20-1037

DATA/360 DOS II APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER - 5736-XS5

DATA/360 DOS-II is a key-to-disk data entry system designed to operate under the System/360 Disk Operating System. Its purpose is to provide a method of entering data by means of local IBM 2260 Display Stations and IBM 3277 Display Stations to IBM 2311, 2314, or 3330 direct access storage devices and of verifying this data to produce input to a user's program, bypassing all peripheral equipment operations. Anticipated users are those currently using card equipment, magnetic tape, and/or paper tape recording equipment.

The purpose of this publication is to present the functions and capabilities of DATA/360 DOS-II, including input/output descriptions, report formats, machine requirements, and user responsibilities.

GH20-1038

TELECOMMUNICATIONS CONTROL SYSTEM (TCS) GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5734-F31

The Telecommunications Control System (TCS) provides the securities industry user with a highly efficient computer-based system for controlling all traffic in a telecommunications network, based upon current operational requirements and teleprocessing equipment in use.

The Telecommunications Control System runs under the full System/360 Operating System and is compatible with System/370. Its flexibility facilitates the addition of user routines and programs to tailor the system to individual requirements.

Message traffic accepted and processed includes orders, executions, cancels, corrections, and report status requests for all listed securities, as well as administrative messages.

Other types of traffic--such as data collection, data distribution, inquiry, and similar application messages--can be handled via TCS, TCAM, and OS facilities.

This manual describes the purpose and functions of the program.

GH20-1039

SECURITIES ORDER MATCHING GENERAL INFORMATION MANUAL PROGRAM NUMBER 5734-F32

The Securities Order Matching program product provides the brokerage industry System/360 or System/370 user with on-line, automatic recording and matching of most security orders and executions. In addition, off-line processing functions generate input to purchases and sales (PES) accounting systems and order room, branch office, stock exchange floor, and customer reports.

Securities Order Matching operates with the IBM program product, Telecommunications Control System (TCS), under the full Operating System (OS) in a multiprogramming environment. Its flexibility facilitates the addition of user routines and/or programs to tailor the system to

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individual requirements.

This manual describes the purpose and functions of Securities Order Matching.

SH20-1040

GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) VOLUME 2: DATA DESCRIPTION LANGUAGE - PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-XX1

This volume specifies the format and content of computer input statements defining data files to be processed. Data description language facilities are discussed in a sequence generally corresponding to a system user's need for those facilities. Descriptive language statements are illustrated as input lines in keyword format representative of punched-card fields.

SH20-1041

PLANNING SYSTEMS GENERATOR II (PSG II) OPERATIONS MANUAL - PROGRAM NUMBER 5734-XT1

Planning Systems Generator II (PSG II) gives the user the plans. It offers the user a simple method for organizing planning data, establishing computational logic to be applied to the data, and for generating data displays and reports.

PSG II may be applied to the solution of planning problems for financial management and also for any division or department of a company with a planning function such as personnel or manpower allocations, marketing projections, short-range budgeting, etc.

This Operations Guide provides the information needed to install and operate PSG II.

SH20-1042

PLANNING SYSTEMS GENERATOR II (PSG II) PROGRAM REFERENCE MANUAL - PROGRAM NUMBER 5734-XT1

Planning Systems Generator II (PSG II) gives the user the means to rapidly produce and evaluate a variety of financial plans. It offers a simple method for organizing planning data, for establishing computational logic to be applied to the data, and for generating displays and reports.

PSG II may be applied to the solution of planning problems for financial management and also for any division or department of a company with planning responsibilities such as personnel or manpower allocations, marketing projections, short-term budgeting, etc.

This manual describes the functions provided by PSG II and explains their use. It also includes information for writing planning logic programs in the FORTRAN programming language. A more detailed description of FORTRAN may be found in the IBM Programmed Instruction Texts, FORTRAN IV for IBM System/360 (R29-0080 through R29-0087).

SH20-1043

CUSTOMER INFORMATION CONTROL SYSTEM (CICS) SYSTEM PROGRAMMER'S REFERENCE MANUAL PROGRAM NUMBERS DOS-ENTRY 5736-XX6, DOS-STANDARD 5736-XX7, OS-STANDARD 5734-XX7

The IBM Customer Information Control System (CICS) is a transaction-oriented, multiapplication data base/data communication interface between a System/360 or System/370 operating system and user-written application programs. Applicable to most on-line systems, CICS provides many of the facilities necessary for standard terminal applications: message switching, inquiry, data collection, order entry, and conversational data entry.

CICS is available in three systems--two for DOS users and one for OS users. Because the two CICS/DOS systems are compatible with each other and with the CICS/OS system, it is possible to start with a small data base/data communication configuration and move up through DOS into OS.

This manual provides information essential for persons who have the responsibility to define, prepare, and administer CICS in the environment it supports.

SH20-1044

CUSTOMER INFORMATION CONTROL SYSTEM (CICS) TERMINAL OPERATOR'S GUIDE - PROGRAM NUMBERS DOS-ENTRY 5736-XX6, DOS-STANDARD 5736-XX7, OS-STANDARD 5734-XX7

The IBM Customer Information Control System (CICS) is a transaction-oriented, multiapplication data base/data communication interface between a System/360 or System/370 operating system and user-written application programs. Applicable to most on-line systems, CICS provides many of the facilities necessary for standard terminal applications: message switching, inquiry, data collection, order entry, and conversational data entry.

CICS is available in three systems--two for DOS users and one for OS users. Because the two CICS/DOS systems are compatible with each other and with the CICS/OS system, it is possible to start with a small data base/data communications configuration and move up through DOS into OS.

This manual provides information of interest to persons involved with terminal operation. These persons include

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- terminal operators, terminal supervisors, master terminal operators, application programmers, system programmers, and system administration.
- SH20-1047  
CUSTOMER INFORMATION CONTROL SYSTEM DOS - ENTRY (CICS DOS - STANDARD (CICS/DOSS) OS - STANDARD VERSION 2 (CICS/OS) APPLICATION PROGRAMMER'S REFERENCE MANUAL  
PROGRAM NUMBERS 5736-XX6, 5736-XX7, 5734-XX7  
The IBM Customer Information Control System (CICS) is a transaction-oriented, multiapplication data base/data communication interface between a System/360 or System/370 operating system and user-written application programs. Applicable to most online systems, CICS provides many of the facilities necessary for standard terminal applications: message switching, inquiry, data collection, order entry, and conversational data entry.  
CICS is available in three systems--two for DOS users and one for OS users. Because the two CICS/DOS systems are compatible with each other and with the CICS/OS system, it communication configuration and move up through DOS into OS.  
This manual provides information of interest to persons defining, designing, and preparing application programs to execute under CICS.
- SH20-1048  
CUSTOMER INFORMATION CONTROL SYSTEM (CICS) OPERATING SYSTEM STANDARD VERSION 2 OPERATIONS GUIDE  
PROGRAM NUMBER 5734-YY7  
The IBM Customer Information Control System (CICS) is a transaction-oriented, multiapplication data base/data communication interface between a System/360 or System/370 operating system and user written application programs. In addition to the functions required for inquiry and conversational data entry, this open-ended, table-controlled, event-driven system provides many of the facilities necessary for standard terminal applications such as message switching, broadcasting, data collection, and order distribution.  
CICS is available in three systems - two for DOS users and one for OS users. Because the two CICS/DOS systems are compatible with each other and with the CICS/OS system, it is possible to start with a small data base/data communication configuration and move up through DOS into OS.  
This manual provides information of interest to persons responsible for the definition, preparation, and execution of CICS. Included is the information necessary to generate and operate CICS.
- SH20-1051  
IBM DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD  
(DOS FASTER MFL PROGRAM DESCRIPTION  
PROGRAM NUMBER 5736-G24  
No abstract available.
- SH20-1052  
IBM DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD  
(DOS FASTER MFL OPERATIONS MANUAL - PROGRAM NUMBER 5736-G24  
This publication contains a description of the procedures necessary to implement FASTER MT in a test or online environment. Initialization of system files, linkage editing options, and system messages are discussed in addition to the maintenance transaction, which is included with the program.
- SH20-1053  
IBM FASHION REPORTER, PROGRAM DESCRIPTION MANUAL,  
PROGRAM NUMBER 5736-D11  
IBM Fashion Reporter is designed to assist the retail merchant in maintaining accurate inventory records and producing basic merchandising reports. The reports produced are (1) stock status, (2) style page, (3) class/priceline, and (4) aging.  
The user controls the level of detail for the stock records and the reporting criteria. This program product (5736-D11) is intended primarily for fashion/softgoods merchandise reporting.  
IBM Fashion Reporter consists of a group of programs for implementation on the IBM System/360 using the Disk Operating System or on a System/370 subject to the compatibility constraints announced for the System/370.  
This program description manual includes a general description of the programs, machine configuration, general system charts, and sample reports. A general discussion of the retail environment is included. The manual is intended for use in planning for and implementing this program product. The audience includes retail merchandise management and data processing personnel.
- SH20-1054  
IBM FASHION REPORTER, OPERATIONS MANUAL  
PROGRAM NUMBER 5736-D11  
This operations manual provides instructions and guidance for operating the programs in the IBM Fashion Reporter. The major components of the manual describe (1) preparatory information and procedures, (2) operations, and (3) retrieving the programs from the distribution tape, initializing the system, and running the sample problem.
- GH20-1057  
OS/MVT WITH RESOURCE SECURITY, SECURITY OFFICER'S GUIDE  
PROGRAM NUMBER 360A-SV-007  
This publication describes the functions of a security officer in interfacing with the Resource Security System, a modularized extension of the IBM OS/MVT.  
The Resource Security System monitors the users of the system, terminals, programs, volumes, and data sets to which they require access during the execution of their jobs.  
The manual has four sections. The first contains the general concepts of the Security Officer Commands; the second describes how the Security System is installed and used; the third contains command descriptions; and the fourth lists messages and completion codes for the system.
- GH20-1058  
RESOURCE SECURITY (FOR OS/MVT)-GENERAL INFORMATION AND PLANNING MANUAL, PROG. NO. 360A-SV-007  
This manual describes the Resource Security feature to Operating System/360-MVT. The feature has been developed to provide an improved capability for the protection of information stored in and processed by computers. In addition to descriptive information of a general nature, this manual provides an overview of the installation process to aid the planning for Resource Security.
- GH20-1066  
PROBLEM LANGUAGE ANALYZER (PLAN) PROGRAM REFERENCE MANUAL  
PROGRAM NUMBERS 1130-CX-25X, 360A-CX-27X  
This system provides users with application development support in the areas of:  
o User-oriented language processing  
o Dynamic job supervision  
o Diagnostic control and generation  
o Input/output control  
o Utility functions  
A small subset of the PLAN system may be utilized to provide elementary development support. Subsets may be added on an incremental basis as needed until comprehensive use of the system is attained.  
This manual is intended to provide rules for use of the system and technical specifications defining the scope of applicability. It is intended to serve as a user's and implementer's reference. Requirements are specified. Use of all other components is to be considered optional.
- SH20-1067  
SYSTEM/360 OPERATING SYSTEM REQUIREMENTS PLANNING EXTENSIONS (PROGRAMMING REQ EA6264) - PROGRAM DESCRIPTION AND OPERATIONS MANUAL - PROGRAM NUMBER 5799-AA7  
The OS Requirements Planning Extensions are a modification to the OS/360 Requirements Planning program product (5734-M51). The extensions add capabilities and improve the performance of the program product.  
This manual contains the description of the Requirements Planning Extensions. It includes:  
1. A discussion of the extensions  
2. A description of the input/output files  
3. Detailed discussions of the macros  
4. Preparatory and operating procedures for the programs  
The audience for this manual includes systems analysts and programmers.
- SH20-1069  
STAT/BASIC FOR SYSTEM/3 AND INTERACTIVE TERMINAL FACILITY  
PROGRAM REFERENCE - PROGRAM NUMBERS 5703-XA1, 5734-XA3  
STAT/BASIC is a comprehensive set of interactive statistical programs for System/3 Model 6 and ITF. It consists of 40 BASIC programs, providing the user with procedures for data generation, elementary statistics, regression and correlation analysis, multivariate analysis, analysis of variance, non-parametric statistics, time series analysis, and biostatistics. The interactive features include instructional messages, flexible control of calculations, extensive error checking, and data editing.  
This manual provides the details of the STAT/BASIC programs. It covers scope and characteristics, processing descriptions, terminal operation, input/output description, program description, system requirements, and program modification aids.  
In this manual, ITF refers to DOS-ITF, OS-ITF, and TSO-ITF.

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- SH20-1070  
STAT/BASIC FOR INTERACTIVE TERMINAL FACILITY OPERATIONS GUID  
PROGRAM NUMBER 5734-AA3  
This manual provides the information needed to generate, run, and maintain STAT/BASIC.
- GH20-1074  
INTERACTIVE QUERY FACILITY (IQF) FOR IMS/360 VERSION 2  
PROGRAM NUMBER 5734-XX6 - GENERAL INFORMATION MANUAL  
The Interactive Query Facility (IQF) is provided as a feature for users of the IBM Information Management System (IMS/360) Version 2, Program Product 5734-XX6. IQF offers the capability for spontaneous online query capability, and retrieval and display of data maintained within IMS/360 teleprocessing data bases. IQF runs as a standard IMS/360 application program under IMS/360 Version 2 and uses standard IMS/360 resources for describing data, accessing data, and communicating with the user's terminal.  
This manual provides a general description of IQF and its various facilities and programs, describes the IQF query language and the required IQF-IMS/360 machine configurations, and includes sample applications (examples of terminal queries that a user might employ).  
IQF operates with all System/360 and System/370 computers supported by IMS/360 version 2. All references to IMS/360 Version 2 in this manual assume Modification Level 1 or higher, with the full Data Base/Data Communication System.  
This manual has been prepared for both data processing and non-data processing management and personnel. Knowledge of the information contained in the IMS/360 Version 2 General Information Manual (GH20-0765) will be helpful in understanding the relationship of IQF to IMS.
- SH20-1075  
BILL PROCESSOR SYSTEMS - IMS/360 BRIDGE  
PROGRAM DESCRIPTION MANUAL - PROGRAM NUMBER 5734-XX9  
This program product generates programs that convert bill processor system files to Information Management System/360 (IMS/360) Version 2 (5734-XX6) Data Base System, and that allow use of existing programs, with little or no modification, to access the converted data bases. The system provides elements to perform the following functions:  
o Unload the bill processor system files into a format suitable for loading as IMS/360 data bases.  
o Load the unloaded bill processor system files as IMS/360 hierarchic direct data bases.  
o Permit access to the IMS/360 data bases from existing bill processor system programs. Existing programs may be reimplemented with little or no modification.  
Bill Processor Systems - IMS/360 Bridge supports migrations from System/360 Bill of Material Processor (360A-MB-06X), System/360 Data Base Organization and Maintenance Processor (5736-XX4), and Chained File Management System of OS/360 Requirements Planning (5734-M51).  
This manual contains both a general and detailed description of the elements of this program product. Input and output to the programs are described in detail. Execution of the sample problem is explained.  
The purpose of this manual is to provide sufficient information to enable the user to completely understand the functions of the system and of the programs constituting the system, and to prepare for and install the system. The reader should be familiar with the Bill Processor System - IMS/360 Bridge Application Description Manual (GH20-0961). Knowledge of the concepts and terminology discussed in the Information Management System/360 Version 2 General Information Manual (GH20-0765) is a prerequisite to an understanding of this manual.
- SH20-1076  
BILL PROCESSOR SYSTEMS - IMS/360 BRIDGE, OPERATIONS  
MANUAL - PROGRAM NUMBER 5734-XX9  
The Bill Processor Systems - IMS/360 Bridge consists of the programs necessary to convert bill processor system files to IMS/360 data bases and to access the converted data bases. The elements which make up the Bill Processor Systems - IMS/360 Bridge are as follows: the descriptor generator, the conversion generator, the unload module general source code, the load program general source code, the interface generator and the interface module general source code.  
Bill Processor Systems - IMS/360 Bridge supports migrations from System/360 Bill of Material Processor (360A-MB-06X), System/360 Data Base Organization and Maintenance Processor (5736-XX4), and Chained File Management System of OS/360 Requirements Planning (5734-M51).  
This manual contains the job control language and operating instructions required to perform the following functions of the Bill Processor Systems IMS/360 Bridge:  
o Creation of the descriptor file, the DBDGEN utility control statements, and the file description report.  
o Generation of the unload modules, load programs, and PSBGEN utility control statements required for conversion
- of the bill processor system files to IMS/360 data bases.  
o Execution of the programs to unload the bill processor system files to IMS/360 hierarchic sequential data bases.  
o Execution of the IMS/360 utilities and load programs to create the IMS/360 hierarchic direct data bases.  
o Generation of the interface modules required by the existing bill processor system programs to access the IMS/360 data bases.  
o Execution of the bill processor system programs under IMS/360.
- SH20-1081  
FARE QUOTE/TICKETING STUDENT STUDY GUIDE  
PROGRAM NUMBER 5736-T11  
This manual is intended to be used as a learning tool by anyone interested in acquiring an understanding of the Fare Quote/Ticketing Program Product.
- SH20-1089  
AN APL TEXT EDITOR AND COMPOSER PROGRAM DESCRIPTION/  
OPERATIONS MANUAL - PROGRAM NUMBER 5796-PAC  
This manual contains directions for the use of this system. It includes a general description of the procedures required, narrative description of each of the steps, summary tables for reference, and illustrations reproducing both the instruction that a user might employ and the results that such instructions would produce.  
This manual is intended for use by a wide range of users, including both the authors of papers or letters who may employ the system as a partial substitute for secretarial services, and secretaries or other general users without experience in computing. It is written in non-technical language requiring no familiarity at all with the APL programming language, and only minimal familiarity with the APL/360 time-sharing system.
- SH20-1092  
APL/PDTS PROGRAMMING DEVELOPMENT TRACKING SYSTEM - PDTS  
IUP - PROGRAM DESCRIPTION/OPERATIONS MANUAL  
PROGRAM NUMBER 5796-PAD  
This 64 page document describes the capabilities of the IUP and the programs of the APL/PDTS Programming Development Tracking System - PDTS. Written in APL 360 OS/DOS, this system was developed to provide data to assist the user in tracking project schedules, costs and in making comparative analysis with minimal user interaction. It operates on the principle that the distribution of resource utilization or expenditure often follows an observed pattern with respect to time.  
This Program Description/Operations Manual provides the user with sufficient information to understand, install and successfully use the program.
- SH20-1094 \*N  
FLIGHT DATA DISPLAY SYSTEM INSTALLATION GUIDE  
PROGRAM NUMBER 5796-PAE  
This manual provides a procedure to install the Flight Data Display System in a PARS (Programmed Airline Reservation System) environment.
- SH20-1095 \*N  
FLIGHT DATA DISPLAY SYSTEM OPERATORS MANUAL  
PROGRAM NUMBER 5796-PAE  
This manual describes the job control and steps required to provide the non-real-time functions of the Flight Data Display System. It is intended to be a supplement to an airline's operating procedures.
- SH20-1096 \*N  
FLIGHT DATA DISPLAY SYSTEM USERS GUIDE  
PROGRAM NUMBER 5796-PAE  
This manual provides a guide to an agent using the Flight Data Display System. It is intended to serve as an adjunct to an Airline's operating and procedures manual.
- GH20-1128  
MATH/BASIC FOR SYSTEM/3 AND INTERACTIVE TERMINAL FACILITY  
(ITF) GENERAL INFORMATION MANUAL - PROGRAM NUMBERS  
5703-XM2, 5734-XM8  
MATH/BASIC provides easy to use powerful mathematics problem-solving tools to the user of BASIC. The program operates on the IBM System/3 Model 6 or under the Interactive Terminal Facility (ITF) of the IBM 360/270 (OS, DOS, and TSO). It consists of 40 BASIC routines covering the solution of linear equations, matrix eigenproblems, polynomial equations, numerical quadrature, numerical differentiation, interpolation, approximation, smoothing, solution of systems of ordinary differential equations, fast Fourier transform, and special functions.

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The user can employ any of these programs as stand-alone or can merge one or more of them into his own programs. The modules of MATH/BASIC can be applied to many problems that occur in science, engineering, and related fields.

This manual provides an overall view of MATH/BASIC. It describes the program features, usage, maximum problem size, precision, timing, system requirements, and customer responsibilities. Examples are included to illustrate the use of the program.

CICS, designed to provide the operations management of a motor freight carrier with timely and accurate information. FIRST Message Switching provides the facility of point-to-point and multidestination routing, group broadcasting, resend and reroute capability, conversational edit and error correction and multi-buffer message support. Modifications to CICS include implementation of a reusable transient data queue and a checkpoint/warm restart capability. This manual provides information regarding message format and terminal operating procedures.

GH20-1129  
EPIC SOCRATES STUDENT SCHEDULING SYSTEM FOR EDUCATIONAL INSTITUTIONS - PROGRAM PRODUCT GENERAL INFORMATION PROGRAM NUMBER 5735-E91  
 The EPIC SOCRATES program product represents a comprehensive systems approach to the student scheduling tasks of educational institutions. The package consists of a series of interrelated programs which provide for the allocation of educational resources required for the generation of the master schedule of classes, assignment of students to the master schedule classes, and the update of these records with changes required to the assigned classes. The features provided by the program cover the needs of a variety of educators, from those employing traditional scheduling patterns to those who have gone to highly flexible, modular schedules.

LH20-1138  
FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) - PROGRAM LOGIC MANUAL - PROGRAM NUMBERS 5795-AAA (OS MESSAGE SWITCHING) 5795-AAC (DOS MESSAGE SWITCHING)  
 Fast Information Retrieval for Surface Transportation (FIRST) is an advanced teleprocessing system operating under CICS, designed to provide the operations management of a motor freight carrier with timely and accurate information. FIRST Message Switching provides the facility of point-to-point and multidestination routing, group broadcasting, resend and reroute capability, conversational edit and error correction and multi-buffer message support. Modifications to CICS include implementation of a reusable transient data queue and a checkpoint/warm restart capability. This manual provides descriptions and flowcharts for the FIRST Message Switching programs.

GH20-1134  
FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) GENERAL INFORMATION MANUAL - PROGRAM NUMBERS 5795-AAA (OS MESSAGE SWITCHING) 5795-AAB (OS EQUIPMENT CONTROL) 5795-AAC (DOS MESSAGE SWITCHING) 5795-AAD (DOS EQUIPMENT CONTROL)  
 Fast Information Retrieval for Surface Transportation (FIRST) is an advanced teleprocessing system operating under CICS, designed to provide the operations management of a motor freight carrier with timely and accurate information. FIRST Message Switching provides the facility of point-to-point and multidestination routing, group broadcasting, resend and reroute capability, conversational edit and error correction and multi-buffer message support. Modifications to CICS include implementation of a reusable transient data queue and a checkpoint/warm restart capability. FIRST Equipment Control provides real-time reporting of every departure and arrival of linehaul equipment. Inquiries and reports provide timely information regarding equipment location and status. This manual contains a general description of the system and the systems approach taken. It is intended to introduce the reader to the system and to serve as a guide for early planning.

GH20-1139  
FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) - FILE DESCRIPTION MANUAL - PROGRAM NUMBERS 5795-AAA (OS MESSAGE SWITCHING) 5795-AAC (DOS MESSAGE SWITCHING)  
 Fast Information Retrieval for Surface Transportation (FIRST) is an advanced teleprocessing system operating under CICS, designed to provide the operations management of a motor freight carrier with timely and accurate information. FIRST Message Switching provides the facility of point-to-point and multidestination routing, group broadcasting, resend and reroute capability, conversational edit and error correction and multi-buffer message support. Modifications to CICS include implementation of a reusable transient data queue and a checkpoint/warm restart capability. This manual provides descriptions and record layouts for all input and output files used by the FIRST Message Switching system.

GH20-1135 \*N  
FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) OPERATIONS MANUAL - PROGRAM NUMBER 5795-AAA (OS MESSAGE SWITCHING)  
 Fast Information Retrieval for Surface Transportation (FIRST) is an advanced teleprocessing system operating under CICS, designed to provide the operations management of a motor freight carrier with timely and accurate information. FIRST Message Switching provides the facility of point-to-point and multidestination routing, group broadcasting, resend and reroute capability, conversational edit and error correction and multi-buffer message support. Modifications to CICS include implementation of a reusable transient data queue and a checkpoint/warm restart capability. This manual provides computer and master terminal operating procedures.

SH20-1146  
IBM OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL MULTITHREAD (OS FASTER MT) OPERATIONS GUIDE - PROGRAM NUMBER 5734-G21  
 This publication contains a description of the procedures necessary to implement FASTER MT in a test or on-line environment. Initialization of system files, linkage-editing options, and system messages are discussed in addition to the maintenance transaction that is included with the program.

SH20-1136  
FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) SYSTEM PROGRAMMER'S - REFERENCE MANUAL PROGRAM NUMBER 5795-AAA (OS MESSAGE SWITCHING)  
 Fast Information Retrieval for Surface Transportation (FIRST) is an advanced teleprocessing system operating under CICS, designed to provide the operations management of a motor freight carrier with timely and accurate information. FIRST Message Switching provides the facility of point-to-point and multidestination routing, group broadcasting, resend and reroute capability, conversational edit and error correction and multi-buffer message support. Modifications to CICS include implementation of a reusable transient data queue and a checkpoint/warm restart capability. This manual provides the system programmer with the technical information required to understand and install the FIRST Message Switching System.

SH20-1147  
IBM OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL MULTITHREAD (OS FASTER MT) PROGRAM NUMBER 5734-G21  
 FASTER MT is a programming system for retrieving data from indexed-sequential and direct access files, and for maintaining such files, by means of remote or local terminal devices. The system procedures are adaptable to a wide variety of applications. FASTER MT incorporates a macro language that provides for writing message processing programs on a functional level. Through use of the Basic Telecommunications Access Method, FASTER MT provides line control to support a communication network consisting of combinations of IBM 1050 and IBM 2740-1, two typewriter terminals, and the IBM 2260/2265 remote display terminals. FASTER MT operates as a standard multitasking job in a single MVT region or MFT partition under OS, using a minimum of 120K bytes on a System/360 or System/370. This manual describes the FASTER MT system environment and components. Included are detailed macro instruction descriptions and user considerations concerning backup/recovery, hardware, and documentation aids.

GH20-1137 \*N  
FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) - TERMINAL OPERATOR'S MANUAL - PROGRAM NUMBERS 5795-AAA (OS MESSAGE SWITCHING) 5795-AAC (DOS MESSAGE SWITCHING)  
 Fast Information Retrieval for Surface Transportation (FIRST) is an advanced teleprocessing system operating under

GH20-1148  
PROPERTY AND LIABILITY INFORMATION SYSTEM ENHANCEMENTS PLANNING MANUAL - PROGRAM NUMBERS 5736-N24 AND 5736-N25  
 This manual provides a planning guide for the PALIS Automobile and Homeowners Enhancements program products. It contains a narrative description of each of the enhancements functions for both Automobile and Homeowners. A description of the policy master file conversion program is also included to offer a method of converting existing user files to the format required by the enhancements. COBOL data divisions are included in the appendices for all formats that are now or have been changed.

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- SH20-1150  
BUDGET ACCOUNTING INFORMATION SYSTEM (BACIS)  
PROGRAM PRODUCT - OPERATOR'S GUIDE - PROGRAM NUMBER 5736-G25  
This publication contains a description of the procedures necessary to implement the Budget Accounting Information System (BACIS). Initialization of system files and error messages are discussed in addition to the operating considerations.
- SH20-1151  
BUDGET ACCOUNTING INFORMATION SYSTEM (BACIS) FOR PUBLIC INSTITUTIONS; PROGRAM PRODUCT REFERENCE MANUAL PROGRAM NUMBER 5736-G25  
BACIS is a budget preparation and appropriation accounting information system for public institutions. This program reference manual is intended to be used in preparing for the installation of this IBM program product. It describes the detailed concepts, design, inputs, outputs, processing methods, and operational uses provided for within the system implementation. It provides executives, accounting personnel, operating department personnel, the systems analyst, and the programmer with the information they need to evaluate, experiment with, and plan for the installation of this IBM program product.
- GH20-1152  
RCA 301 EMULATOR ON SYSTEM/370 USING DOS (PRPQ) - TRANSITION GUIDE - PROG. NO. 5799-ADR  
This publication presents areas for consideration while planning and implementing the transition from the Honeywell Series 200 to the IBM System/370 Models 135 and 145. It is intended as an aid to management in making a total project plan.  
The transition plan discusses the objectives and techniques of transition, schedules, file conversion, program conversion, education, and installation standards. The guide also discusses the use of DOS resources and the differences between a Honeywell system and an IBM System/370.  
Because of the differences among data processing installations, the guidelines in this publication should be adjusted to fit the reader's particular operating conditions.
- GH20-1153  
HONEYWELL SERIES 200 EMULATOR ON SYSTEM/370 USING DOS (PRPQ) - TRANSITION GUIDE - PROG. NO. 5799-ADR  
This publication presents areas for consideration while planning and implementing the transition from the RCA 301 to the IBM System/370 Models 135 and 145. It is intended as an aid to management in making a total project plan.  
The transition plan discusses the objectives and techniques of transition, schedules, file conversion, program conversion, education, and installation standards. The guide also discusses the use of DOS resources and the differences between an RCA system and an IBM System/370.  
Because of the differences among data processing installations, the guidelines in this publication should be adjusted to fit the reader's particular operating conditions.
- SH20-1154  
MARKETABLE SECURITIES INVENTORY SYSTEM, PROGRAMMING RPQ MB4259, PROGRAM REFERENCE MANUAL - PROG. NO. 5799-ABY  
The Marketable Securities Inventory System provides the ability to automate the handling of an investment securities portfolio. This programming RPQ is available on special quotation only (see inside front cover). It includes facilities for edit, update, and audit control of all input data relating to the portfolio. Input to the system includes interest income, security market values, trades, and tax adjustments. The system produces reports summarizing activity, portfolio status and performance, and various income and tax accounting information.  
This manual contains the description of the programs, input/output, and what must be done to implement this application. It also contains a user's guide and a discussion of the formulas used in the programs.  
The audience for this manual includes traders, investment personnel, system analysts, and programmers.
- SH20-1155  
MARKETABLE SECURITIES INVENTORY SYSTEM PROGRAMMING RPQ MB4259 - PROGRAM NUMBER 5799-ABY OPERATIONS GUIDE OPERATIONS GUIDE  
The Marketable Securities Inventory System enables management to automate the handling of an investment securities portfolio. This Programming RPQ is available on special quotation only (see inside front cover).  
The Programming RPQ includes facilities for edit, edit, update, and audit control of all input data relating to the portfolio. Input to the system includes interest income, security market values, trades, and tax adjustments. The
- system produces reports summarizing activity, portfolio status and performance, and various income and tax accounting information.  
This manual contains information required by operating personnel to process jobs for the Marketable Securities Inventory System. It includes instructions for preparation of all I/O units and for each program, program setup, operating instructions, and program message list.  
The audience for this manual includes systems analysts, programmers, and operations personnel.  
The Programming RPQ described in this manual and all licensed materials available for it are provided by IBM on a special quotation basis only, under the terms of the License Agreement for IBM Program Products. Your local IBM branch office can advise you regarding the special quotation and ordering procedures.
- SH20-1157  
MATH/BASIC PROGRAM PRODUCT FOR ITF - OPERATOR'S GUIDE PROGRAM NUMBER 5734-XM8  
This manual provides the information needed to install, run, and maintain MATH/BASIC. It is assumed that the user has an installed ITF system.
- SH20-1158  
MATH/BASIC FOR SYSTEM/3 MODEL 6 AND INTERACTIVE TERMINAL FACILITY (ITFI) - PROGRAM PRODUCT REFERENCE MANUAL PROGRAM NUMBERS 5703-XM2 (S/3 MODEL 6) 5734-XM8 (ITF-OS, DOS AND TOS)  
MATH/BASIC is a library of 44 conversational routines covering the most frequent mathematical problems in engineering and science. This manual contains sufficient information needed to understand and use MATH/BASIC.
- SH20-1159 \*N  
REGISTERED REPRESENTATIVE SYSTEM PROGRAMMING OVERVIEW PROGRAM NUMBER 5734-F34  
The IBM Registered Representative System program product provides the brokerage industry System/370 user with online communication to the IBM 3670 Brokerage Communication System to perform his major tasks of following the NYSE and ASE tickers, receiving current displays of security quotations and the leading market indicators, and monitoring on a continuing basis all movements of an individually selected list of securities. The Registered Representative System supports rapid inquiry and response into a securities opinion data base and a customer account data base providing the current research opinions, customer holdings, and customer balances. In addition, it allows the entry of orders, inquiry into the status of an order, and distribution of order execution reports directly to the registered representative using the IBM 3670 terminal.  
The Registered Representative System operates with the following IBM programs under the full Operating System in a multiprogramming environment:  
Telecommunications Control System (TCS)  
Telecommunications Access Method (TCAM)  
Customer Information Control System (CICS)  
Inquiries and orders entered by the registered representative on his 3672 Executive Console are transmitted over the firm's teleprocessing network to its central computer from the 3671 Shared Terminal Control Unit. Inquiry responses and order verifications are returned to his 3673 Data Display while hard copy printouts of inquiries, execution reports, and administrative messages are routed to the 3674 Printer-Keyboard servicing his terminal.
- GH20-1163  
(CPS) CONVERSATIONAL PROGRAMMING SYSTEM BASIC TERMINAL USER'S MANUAL - PROGRAM NUMBER 3600-03.4-016  
No abstract available.
- SH20-1164 \*N  
PLANNING SYSTEMS GENERATOR II (PSG II) DOS OPERATOR'S GUIDE PROGRAM PRODUCT 5736-XT1  
Planning Systems Generator II (PSG II) DOS gives the user the means to rapidly produce and evaluate a variety of financial plans. It offers a simple method for organizing planning data, for establishing computational logic to be applied to the data, and for generating data displays and reports.  
PSG II may be applied to the solution of planning problems for financial management and also for any division or department of a company with planning responsibilities such as personnel manpower allocations, marketing projections, budget planning, etc.  
This Operations Guide describes the procedures required to install and operate PSG II.
- SH20-1166 \*N  
FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) SYSTEM PROGRAMMER'S REFERENCE MANUAL - PROGRAM PRODUCT 5795-AAC (DOS MESSAGE SWITCHING)

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- Fast Information Retrieval for Surface Transportation (FIRST) is an advanced teleprocessing system operating under CICS, designed to provide the operations management of a motor freight carrier with timely and accurate information. FIRST Message Switching provides the facility of point-to-point and multi-destination routing, group broadcasting, resend and reroute capability, conversational edit and error correction and multi-buffer message support. Modifications to CICS include implementation of a reusable transient data queue and a checkpoint/warm restart capability. This manual provides the system programmer with the technical information required to understand and install the FIRST Message Switching System.
- GH20-1167 \*N  
FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) OPERATIONS MANUAL - PROGRAM PRODUCT 5795-AAC (DOS MESSAGE SWITCHING)  
Fast Information Retrieval for Surface Transportation (FIRST) is an advanced teleprocessing system operating under CICS, designed to provide the operations management of a motor freight carrier with timely and accurate information. FIRST Message Switching provides the facility of point-to-point and multi-destination rerouting, group broadcasting, resend and reroute capability, conversational edit and error correction and multi-buffer message support. Modifications to CICS include implementation of a reusable transient data queue and a checkpoint/warm restart capability. This manual provides computer and master terminal operating procedures.
- LH20-1168 see page 228
- GH20-1169 \*N  
FIRST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) FILE DESCRIPTION MANUAL - PROGRAM PRODUCT 5795-AAC (DOS MESSAGE SWITCHING)  
Fast Information Retrieval for Surface Transportation (FIRST) is an advanced teleprocessing system operating under CICS, designed to provide the operations management of a motor freight carrier with timely and accurate information. FIRST Message Switching provides the facility of point-to-point and multi-destination routing, group broadcasting, resend and reroute capability, conversational edit and error correction and multi-buffer message support. Modifications to CICS include implementation of a reusable transient data queue and a checkpoint/warm restart capability. This manual provides descriptions and record layouts for all input and output files used by the FIRST Message Switching system.
- GH20-1170  
INTERACTIVE TRAINING SYSTEM - GENERAL INFORMATION MANUAL PROGRAM NUMBER 5734-XXC  
The IBM Interactive Training System provides a real-time training environment utilizing available IBM Data Base/Data Communications Systems. For users of the IBM Information Management System/360 V2 and the Customer Information Control System OS-STANDARD V2, the IBM Interactive Training System supports the IBM Coursewriter III language and a unique course Structuring feature. Computer assisted instruction can now be available for individualized instruction in the operational environment of a terminal-oriented, data base system. This manual includes descriptions of the Interactive Training System facilities, the Course Structuring feature, and the Coursewriter III language for implementation planning purposes.
- GH20-1171 \*N  
SYSTEM/370 DISTRIBUTED SYSTEM PROGRAM (S/370 DSP) GENERAL INFORMATION MANUAL - APPLICATION PROGRAM NUMBER 360A-TX-032  
System/370 Distributed System Program (S/370 DSP) provides the means for operating an IBM System/370 connected to one or more System/7's as a single system with distributed facilities. This manual describes the support that is available to the user of the S/370 DSP. Included are descriptions of the subroutines, available to programs resident in System/370, and the macros, available to programs resident in System/7.
- GH20-1173 \*N  
IBM SYSTEM/360 AND SYSTEM/370 ASP VERSION F 3 ASYMMETRIC MULTIPROCESSING SYSTEM GENERAL INFORMATION MANUAL APPLICATION - PROGRAM NUMBER 360A-CX-15X  
The ASP system is a multiprocessor operating system that provides a compatible extension to the Operating System (OS). Designed for the user with a large computer job shop environment, ASP provides increased automation of the computing operation. The ASP system functions as a programmed operator of OS. It provides advanced scheduling facilities for optimizing the total installation production.
- GH20-1174  
PLANNING SYSTEMS GENERATOR II (PSG II) DOS-PROGRAM REFERENCE MANUAL-PROGRAM PRODUCT 5736XT1  
No abstract available
- GH20-1175 \*N  
BUSINESS ANALYSIS/BASIC FOR SYSTEM/3 BASIC AND SYSTEM/360 AND SYSTEM/370 INTERACTIVE TERMINAL FACILITY GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5703-XN3, 5734-XMB  
Business Analysis/BASIC is a comprehensive set of interactive routines for use on the System/3 Model 6, and on System/360 or System/370 with ITP (DOS, OS, or TSO). It consists of 30 routines written in the BASIC language, providing the problem-solving professional with procedures for data generation and maintenance, spread sheet analysis, investment analysis, break-even or cost-volume-profit analysis, depreciation analysis, and time series analysis. The program is designed so that a detailed knowledge of programming is not required. Interactive features include instructional messages, flexible control of calculations, extensive error checking and data editing. This manual provides an overview of Business Analysis BASIC describing the program features, data file concepts, usage, maximum problem sizes, precision, timing, system requirements, and customer responsibilities.
- SH20-1177  
PLANNING GUIDE FOR THE PL/1 QUERY SUPPORT FEATURE OF GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) PROGRAM NUMBER 5734-XX1  
This document describes the use and characteristics of the DL/I (Data Language I) Query Support Feature of the Generalized Information System, Version 2 (GIS/2). This feature provides the means by which a person can employ the GIS query language against DL/I data bases of Information Management System/360, Version 2 (IMS).
- GH20-4001  
SHAS COMPATIBLE TELEPROCESSING SPECIFICATION SHEET PROGRAM NUMBER 5736-H13  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4003  
COURSEWRITER III (OS) VERSION 2 PROGRAM NUMBER 5734-E12  
Sheet list specifications for Coursewriter III OS Version 2, Program Product 5734-E12.
- GH20-4004  
PROJECT MANAGEMENT SYSTEM/360 VERSION 3 PROGRAM NUMBER 5734-XP1  
This Program Product Specifications (PPS) describes the warranted specifications of the subject Program Product.
- GH20-4005  
OS/360 REQUIREMENTS PLANNING PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-M51  
This Program Product Specifications (PPS) describes the warranted specifications of the subject Program Product.
- GH20-4006  
SYSTEMS/360 LEARN DOS ADMINISTRATIVE TERMINAL SYSTEM PROGRAM NUMBER 5736-XX3  
This Program Product Specifications (PPS) describes the warranted specifications of the subject Program Product.
- GH20-4007  
SYSTEM/360 LEARN OS ADMINISTRATIVE TERMINAL SYSTEM PROGRAM NUMBER 5734-XX8  
This Program Product Specifications (PPS) describes the warranted specifications of the subject Program Product.
- GH20-4008  
OS/360 INVENTORY CONTROL PROGRAM NUMBER 5734-M52 SPECIFICATION SHEETS  
This Program Product Specifications (PPS) describes the warranted specifications of the subject Program Product.
- GH20-4012  
SYSTEM/360 REQUIREMENTS PLANNING INTERFACE PROGRAM NUMBER 5736-M13  
This Program Product Specifications (PPS) describes the warranted specifications of the subject Program Product.
- GH20-4014  
SYSTEM/360 CAPACITY PLANNING - INFINITE LOADING PROGRAM NUMBER 5736-M11  
This Program Product Specifications (PPS) describes the warranted specifications of the subject Program Product.

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- GH20-4015  
CFO AUTOCODER TO ASSEMBLER LANGUAGE INSTRUCTION SET  
TRANSLATOR (CATALIST) PROGRAM NUMBER 5736-XX2  
This Program Product Specifications (PPS) describes the  
warranted specifications of the subject Program Product.
- GH20-4016  
TARIFF PUBLISHING SYSTEM (BOUND TARIFFS)  
PROGRAM NUMBER 5736-T21  
This Program Product Specifications (PPS) describes the  
warranted specifications of the subject Program Product.
- GH20-4017  
POWER SYSTEM PLANNING PROGRAM SPECIFICATIONS SHEETS  
PROGRAM NUMBER 5736-U12  
The Program Product Specifications (PPS) describe the  
warranted specifications of the subject Program Product.
- GH20-4019  
MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) VERSION 2  
SPECIFICATIONS SHEET - PROGRAM NUMBER 5736-H11  
This Program Product Specifications (PPS) describes the  
warranted specifications of the subject Program Product.
- GH20-4020  
TRAFFIC PROFILE ANALYSIS SYSTEM (POINT-TO-POINT TARIFF ITEM  
SELECTION) PROGRAM NUMBER 5736-T22  
This Program Product Specifications (PPS) describes the  
warranted specifications of the subject Program Product.
- GH20-4021  
SHARED LABORATORY INFORMATION SYSTEM (SLIS) PROGRAM  
PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-H12  
This Program Product Specifications (PPS) describes the  
warranted specifications of the subject Program Product.
- GH20-4022  
CONSUMER GOODS SYSTEMS (COGS) - ALLOCATION  
PROGRAM NUMBER 5736-D31  
This Program Product Specifications (PPS) describes the  
warranted specifications of the subject Program Product.
- GH20-4023  
THE CONSUMER GOODS SYSTEMS (COGS) - FORECASTING  
PROGRAM NUMBER 5736-D32  
This Program Product Specifications (PPS) describes the  
warranted specifications of the subject Program Product.
- GH20-4024  
SHOP FLOOR CONTROL - PROGRAM NUMBER 5736-M31  
This Program Product Specifications (PPS) describes the  
warranted specifications of the subject Program Product.
- GH20-4025  
CLINICAL LABORATORY MANAGEMENT SYSTEM (CLMS)  
PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5718-H12  
The Program Product Specifications (PPS) describe the  
warranted specifications of the subject Program Product.
- GH20-4026  
SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM WITH DISK OS  
(RAX-DOS) PROGRAM NUMBER 5799-AAA SPECIFICATION SHEET  
This Program Product Specifications (PPS) describes the  
warranted specifications of the subject Program Product.
- GH20-4027  
AGRI-BUSINESS MANAGEMENT INFORMATION SYSTEM (AMIS)  
SPECIFICATIONS SHEET PROGRAM NUMBER: 5736-D51  
This Program Product Specifications (PPS) describes the  
warranted specifications of the subject Program Product.
- GH20-4028  
DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR  
PROGRAM NUMBER 5736-XX4  
This Program Product Specifications (PPS) describes the  
warranted specifications of the subject Program Product.
- GH20-4030  
IBM SYSTEM/360 RESOURCE ALLOCATION  
FOR PROJECT CONTROL SYSTEM/360 PROGRAM NUMBER: 5736-XP2  
PROGRAM PRODUCT SPECIFICATIONS  
This Program Product Specifications (PPS) describes the  
warranted specifications of the subject Program Product.
- GH20-4031  
FALLS ADDITIONAL FILE FACILITY (2314)  
PROGRAM NUMBER 5736-N22  
This Program Product Specifications (PPS) describes the  
warranted specifications of the subject Program Product.
- GH20-4032  
FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER  
RETRIEVAL - LOW CORE (FASTER LC)  
SPECIFICATIONS - PROGRAM NUMBER 5736-G22  
This Program Product Specifications (PPS) describes the  
warranted specifications of the subject Program Product.
- GH20-4034  
COMPUTER SYSTEM SIMULATOR II (CSS II) SPECIFICATIONS SHEET  
PROGRAM NUMBER 5734-XS5  
The Program Product Specifications (PPS) describe the  
warranted specifications of the subject Program Product.
- GH20-4035  
GENERAL PURPOSE SIMULATION SYSTEM V-OS (GPSS V-OS)  
PROGRAM NUMBER 5734-XS2  
This Program Product Specifications (PPS) describes the  
warranted specifications of the subject Program Product.
- GH20-4036  
FINANCIAL TERMINAL SYSTEM (FTS)  
PROGRAM NUMBER 5734-XS2  
This Program Product Specifications (PPS) describes the  
warranted specifications of the subject Program Product.
- GH20-4037  
SYSTEM/360 TEXT PROCESSOR PAGINATION/360  
PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-K12  
The Program Product Specifications (PPS) describe the  
warranted specifications of the subject Program Product.
- GH20-4039  
DIRECT ACCESS TERMINAL APPLICATION (DATA/360-DOS)  
PROGRAM NUMBER 5736-XS2  
The Program Product Specifications (PPS) describe the  
warranted specifications of the subject Program Product.
- GH20-4040  
GENERAL PURPOSE SIMULATION SYSTEM V-DOS (GPSS V-DOS)  
PROGRAM NUMBER 5736-XS3  
The Program Product Specifications (PPS) describe the  
warranted specifications of the subject Program Product.
- GH20-4041  
IBM VEHICLE SCHEDULING PROGRAM - EXTENDED (OS)  
PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-XM5  
The Program Product Specifications (PPS) describe the  
warranted specifications of the subject Program Product.
- GH20-4042  
IBM VEHICLE SCHEDULING PROGRAM - EXTENDED (DOS)  
PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-XM3  
The Program Product Specifications (PPS) describe the  
warranted specifications of the subject Program Product.
- GH20-4043  
CUSTOMER INFORMATION CONTROL SYSTEM OS - STANDARD (CICS/OS)  
AND LANGUAGE AND TERMINAL FEATURE (L/T)  
(FEATURE 6004, 6005, 6006) - DESIGN OBJECTIVES  
PROGRAM NUMBER 5736-U11  
The Program Product Design Objectives (PPDO) describe the  
design objectives and provide the estimated availability  
date of the subject Program Product.
- GH20-4044  
SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM (ACIP)  
PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-F32  
The Program Product Specifications (PPS) describe the  
warranted specifications of the subject Program Product.
- GH20-4046  
APL/360-DOS PROGRAM PRODUCT SPECIFICATIONS  
PROGRAM NUMBER 5736-XM6  
The Program Product Specifications (PPS) describe the  
warranted specifications of the subject Program Product.
- GH20-4047  
APL/360-OS PROGRAM PRODUCT SPECIFICATIONS  
PROGRAM NUMBER 5734-XM6  
The Program Product Specifications (PPS) describe the  
warranted specifications of the subject Program Product.

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- GH20-4048  
SYSTEM/360 CONSUMER GOODS SYSTEM (CGS) FORECASTING (OS)  
PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-D33  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4049  
SYSTEM/360 CONSUMER GOODS SYSTEM (CGS) ALLOCATION (OS)  
PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-D32  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4067  
INFORMATION MANAGEMENT SYSTEM/360 (IMS/360) VERSION 2  
DESIGN OBJECTIVES - PROGRAM NUMBER 5734-XX6  
 The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GH20-4076  
SYSTEM/360 GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (OS)  
PROGRAM PRODUCT FUNCTIONAL DESCRIPTION SHEET  
PROGRAM PRODUCT 5734-XX2  
 This Program Product Functional Description (PPFD) describes the functional capabilities of the subject Program Product, which has a Programming Service Classification of C.
- GH20-4077  
GENERAL PURPOSE SIMULATION SYSTEM/360 OS VERSION 2 PROGRAM  
PRODUCT FUNCTIONAL DESCRIPTION SHEET  
PROGRAM PRODUCT 5734-YS1  
 This Program Product Functional Description (PPFD) describes the functional capabilities of the subject Program Product, which has a Programming Service Classification of C.
- GH20-4078  
GENERAL PURPOSE SIMULATION SYSTEM/360 DOS VERSION 2 PROGRAM  
PRODUCT FUNCTIONAL DESCRIPTION SHEET  
PROGRAM PRODUCT 5734-YS1  
 This Program Product Functional Description (PPFD) describes the functional capabilities of the subject Program Product, which has a Programming Service Classification of C.
- GH20-4079  
SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE - PS (M44)  
PROGRAM PRODUCT FUNCTIONAL DESCRIPTION SHEET  
PROGRAM NUMBER 5736-P71  
 This Program Product Functional Description (PPFD) describes the functional capabilities of the subject Program Product, which has a Programming Service Classification of C.
- GH20-4080  
SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE - OS PROGRAM  
PRODUCT SPECIFICATION SHEET - PROGRAM NUMBER 5736-E72  
 This Program Product Functional Description (PPFD) describes the functional capabilities of the subject Program Product, which has a Programming Service Classification of C.
- GH20-4081  
PROJECT MANAGEMENT SYSTEM/360 VERSION 3 FUNCTIONAL  
DESCRIPTION SHEET - PROGRAM NUMBER 5734-XP1  
 This Program Product Functional Description (PPFD) describes the functional capabilities of the subject Program Product, which has a Programming Service Classification of C.
- GH20-4082  
RIGID FRAME SELECTION PROGRAM - FUNCTIONAL DESCRIPTION SHEET  
PROGRAM NUMBER 5734-EC1  
 This Program Product Functional Description (PPFD) describes the functional capabilities of the subject Program Product, which has a Programming Service Classification of C.
- GH20-4083  
RIGID FRAME SELECTION PROGRAM - FUNCTIONAL DESCRIPTION  
SHEET (RFSP DOS) - PROGRAM NUMBER 5736-EC1  
 This Program Product Functional Description (PPFD) describes the functional capabilities of the subject Program Product, which has a Programming Service Classification of C.
- GH20-4085  
LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM  
(LEMRA) FUNCTIONAL DESCRIPTION - PROGRAM PRODUCT 5736-G21  
 This Program Product Functional Description (PPFD) describes the functional capabilities of the subject Program Product, which has a Programming Service Classification of C.
- GH20-4101  
ONLINE COBOL SYMBOLIC DEBUG FOR IBM CP-67 SYSTEMS (RPQ)  
PROGRAM NUMBER 5799-AAF - REFERENCE PRPQ AA0476  
PROGRAM PRODUCT SPECIFICATION SHEET  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4102  
MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX)  
SPECIFICATION SHEET - PROGRAM NUMBER 5734-XM4  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4103  
DISPLAY MANAGEMENT SYSTEMS (DMS) - PROGRAM NUMBER 5734-XC1  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4104  
PROJECT MANAGEMENT SYSTEM IV, PROGRAM PRODUCT SPECIFICATIONS  
PROGRAM NUMBER 5734-XP4  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4105  
DIRECT ACCESS TERMINAL APPLICATION (DATA/360-OS)  
PROGRAM NUMBER 5734-YS3  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4106  
INFORMATION MANAGEMENT SYSTEM/360 (IMS/360) VERSION 2  
PROGRAM NUMBER 5734-XX6  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4108  
COMPUTER SYSTEM SIMULATOR II (CSS II)  
PROGRAM PRODUCT SPECIFICATIONS, PROGRAM NUMBER 5734-YS5  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4109  
PROCEDURE LIBRARY-MATHEMATICS (PL-MATH)  
PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-XM3  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4110  
OS/360 REQUIREMENTS PLANNING SPECIAL FEATURE #6015  
PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-M51  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4111  
OS CAPACITY PLANNING - INFINITE LOADING  
PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-M53  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4112  
OS CAPACITY PLANNING - FINITE LOADING  
PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-M54  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4113  
OS SHOP FLOOR CONTROL, PROGRAM NUMBER 5734-M31  
PROGRAM PRODUCT SPECIFICATION SHEET  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4118  
IBM BASIC COURTS SYSTEM SPECIFICATIONS SHEETS  
PROGRAM NUMBER 5736-G26  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4121  
BROKERAGE ACCOUNTING SYSTEMS ELEMENTS (BASE)  
SPECIFICATIONS SHEETS - PROGRAM NUMBER 5736-F31  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.

SECTION 2:  
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- GH20-4122  
MINIPERT - PROGRAM NUMBER 5734-XP3  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4123  
FARE QUOTE/TICKETING SPECIFICATION SHEET PROGRAM NUMBER 5736-T11  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4124  
GENERALIZED INFORMATION SYSTEM, VERSION 2 (GIS/2) SPECIFICATIONS SHEET PROGRAM NUMBER 5734-XX1  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4127  
CONSOLIDATED FUNCTIONS ORDINARY II - CFO-II SPECIFICATIONS SHEETS - PROGRAM NUMBER 5736-N13  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4128  
COURSEWRITER III/DOS VERSION 3 - SPECIFICATION SHEET PROGRAM NUMBER 5736-F11  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4130  
THE DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD (DOS FASTER MT) PROGRAM NUMBER 5736-G24  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4131  
CUSTOMER INFORMATION CONTROL SYSTEM/DOS ENTRY SPECIFICATION SHEETS - PROGRAM NUMBER 5736-XX6  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4133  
OS REQUIREMENTS PLANNING EXTENSIONS - SPECIFICATIONS PROGRAMMING RPQ BA6264 - PROGRAM NUMBER 5799-AYY  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4134  
CUSTOMER INFORMATION CONTROL SYSTEM/DOS-STANDARD (CICS/DOS-STANDARD) - PROGRAM NUMBER 5736-XX7  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4135  
3330/2305 APT SUPPORT PROGRAMMING RPQ MB5773 PROGRAM NUMBER 5799-ACZ (PRPQ SPECIFICATIONS)  
 The additions to APT to support the 3330 and 2305 DASD's involve three functions:  
 o Determining the device type for a particular Request  
 o Calculating the location of a block in a data set on a device that has four blocks per track (3330/2305)  
 o Changing the maximum block size if the device is a 3330 or 2305 Model 1  
 3330/2305 APT support is an addition to the Type II program, S/360 APT Numerical Control Processor (360A-CH-10X) Version 4, Modification Level 3, and as such, requires that program to execute. The support is written in S/360 Assembler language, and the S/360 Assembler F is used to assemble the routines. This PRPQ is released to work with OS Release 20.1 and all such subsequent releases, versions, and modifications unless otherwise stated in a future revision of this document. In addition, all System/360 Operating System programs required for S/360 APT are also required for this PRPQ. These are: the Assembler, Linkage Editor, FORTRAN IV Level H, and the IEBUGPAT, EIBMOVE, IEBCOPY, and IEBOOT utility programs.
- GH20-4136  
PROGRAM SYSTEMS GENERATOR II (PSG II) - SPECIFICATION SHEET PROGRAM NUMBER 5734-XT1  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4137  
ELECTRONIC CIRCUIT ANALYSIS PROGRAM II (ECAP-II) FOR THE OPERATING SYSTEM AND 1130 SYSTEM - SPECIFICATIONS SHEET PROGRAM NUMBERS 5734-EE1 AND 5711-EE1  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4139  
STAT/BASIC FOR ITF - SPECIFICATION SHEET PROGRAM 5734-XA3  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4140  
CUSTOMER INFORMATION CONTROL SYSTEM/OS STANDARD V2 (CICS/OS-STANDARD V2) PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-XX7  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4141  
BILL PROCESSOR SYSTEMS - IMS/360 BRIDGE PROGRAM NUMBER 5734-XX9  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4142  
FASHION REPORTER PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-D11  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4144  
SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC UTILITY INDUSTRY SHORT CIRCUIT Ro FEATURE SPECIFICATIONS PROGRAM NUMBER 5736-U12  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4146  
IBM SYSTEM/360 AND SYSTEM/370 SUBROUTINE LIBRARY MATHEMATICS (SL-MATH) SPECIFICATIONS - PROGRAM NUMBER 5736-XM7  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4148  
BASIC (BUDGET ACCOUNTING INFORMATION SYSTEM) FOR PUBLIC INSTITUTIONS - PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-G25  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4149  
THE OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL-MULTITHREAD (OS FASTER MT) PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-G21  
 The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4170  
GENERALIZED INFORMATION SYSTEM, VERSION 2 (GIS/2) DESIGN OBJECTIVES - PROGRAM NUMBER 5734-XX1  
 The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GH20-4179  
CHECK PROCESSING CONTROL SYSTEM (CPCS) PROGRAM PRODUCT DESIGN OBJECTIVES, PROGRAM NUMBER 5734-F11  
 The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GH20-4183  
CASH AND CREDIT ACCOUNT MAINTENANCE PROGRAM PRODUCT DESIGN OBJECTIVES  
 No abstract available.
- GH20-4188  
IBM SECURITIES ORDER MATCHING - PROGRAM NUMBER 5734-F32 DESIGN OBJECTIVES  
 The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.

\*N

SECTION 2:  
ENTRIES ADDED TO THIS BIBLIOGRAPHY ARE IDENTIFIED BY A 'N' INDICATOR  
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- GH20-4191  
INFORMATION MANAGEMENT SYSTEM/360 (IMS/360) VERSION 2 DATA COMMUNICATION FEATURE ENHANCEMENT  
PROGRAM NUMBER 5734-XK6  
The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GH20-4195  
DIRECT ACCESS TERMINAL APPLICATION (DATA/360 DOS-11)  
DESIGN OBJECTIVES - PROGRAM NUMBER 5736-XS5  
The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GH20-4196  
DIRECT ACCESS TERMINAL APPLICATION (DATA/360 OS-11)  
DESIGN OBJECTIVES - PROGRAM NUMBER 5734-XS8  
The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GH20-4197  
PALIS AUTOMOBILE ENHANCEMENTS - DESIGN OBJECTIVES SHEET  
PROGRAM NUMBER 5736-N24  
The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GH20-4199  
PALIS ADDITIONAL FILE FACILITY - PROGRAM NUMBER 5736-N22  
The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GH20-4203  
THE DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR BASIER RETRIEVAL MULTITHREAD (DOS FASTER MT)  
DESIGN OBJECTIVES - PROGRAM NUMBER 5736-G24  
The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GH20-4207  
EPIC: FAST TEST SCORING SYSTEM DESIGN OBJECTIVES  
PROGRAM NUMBER 5735-E92  
The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GH20-4208  
EPIC: SOCRATES STUDENT SCHEDULING SYSTEM DESIGN OBJECTIVES  
PROGRAM NUMBER 5735-E91  
The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GH20-4209  
EPIC: STUDENT RECORDS DESIGN OBJECTIVES  
PROGRAM NUMBER 5735-E94  
The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GH20-4210  
EPIC: BUDGET/FINANCE DESIGN OBJECTIVES  
PROGRAM NUMBER 5735-E93  
The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GH20-4217  
CICS FEATURE FOR DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR FEATURES - DESIGN OBJECTIVES SHEET  
FEATURE NUMBERS 6024-6029  
The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GH20-4220  
IBM SYSTEM/360 AND SYSTEM/370 MATRIX GENERATOR AND REPORT WRITER (MSRWL) PPDO PROGRAM PRODUCT 5734-XMC  
The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GH20-4221  
GENERALIZED UPPER BOUNDING (GUB) FEATURE OF MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MESL) PPDO PROGRAM PRODUCT 5734-XM4 FEATURE 6059, 6060, 6061  
The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.
- GH20-4222  
INTERACTIVE TRAINING SYSTEM COURSE STRUCTURING FEATURE SPECIFICATION SHEET - PROGRAM NUMBER 5734-XXC  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4223 see page 228
- GH20-4301  
COURSEWRITER III/OS VERSION 3 - SPECIFICATION SHEET  
PROGRAM NUMBER 5734-E13  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4302  
PALIS AUTOMOBILE ENHANCEMENT - SPECIFICATION SHEET  
PROGRAM NUMBER 5736-N24  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4303  
CONTINUOUS SYSTEM MODELING PROGRAM (CSMP III) SPECIFICATION SHEET - PROGRAM NUMBER 5734-YS9  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4304  
MARKETABLE SECURITIES INVENTORY SYSTEM PROGRAMMING RPO MB4259 - SPECIFICATION SHEET - PROGRAM NUMBER 5799-ABY  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4305  
CPS UNDER TSO - V DESIGN OBJECTIVES SHEET  
PROGRAM NUMBER 5799-ADY  
This eight-page document describes a version of the Conversational Programming System (CPS) designed to run under the OS/360 Time Sharing Option (TSO). The "current CPS" referenced in this document is the Conversational Programming System, program number 360D-03.4-016. To the terminal user, the TSO CPS will closely resemble the current CPS system. The PL/I and BASIC languages will be provided in the system, with BASIC an option specified at CPS system generation time. Autosave will be supported. RJE and IOLOG will not be part of the system. Users requiring a remote job entry capability can use the extensive facilities provided by the TSO EDIT and SUBMIT commands together with the language processors and propters available under TSO. The basic hardware requirement for CPS under TSO will be a system capable of supporting TSO with at least 512K of main storage.
- GH20-4307  
PALIS HOMEOWNERS ENHANCEMENTS - PROGRAM NUMBER 5736-N25  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4308  
MATH/BASIC FOR SYSTEM/3 AND ITP (OS, DOS AND TSO) SPECIFICATIONS - PROGRAM PRODUCT 5703-XM2, 5734-XM8  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4309  
PSG -11 DOS SPECIFICATIONS - PROGRAM PRODUCT 5736-YT1  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product.
- GH20-4312  
STORAGE AND INFORMATION RETRIEVAL SYSTEM SPECIFICATION SHEET (STAIRS) - PROGRAM NUMBER 5734-XR3  
The Program Product Specifications (PPS) describe the warranted specifications of the subject Program Product. \*N
- GJD1-0015  
3830 4-CHANNEL SWITCH SUPPORT (CALTROPI) ICR - PROGRAM NUMBER 360-OS-587  
Provides support for the 4-channel switch feature on the 3800 control unit for the 3330 storage facility. It allows the 3830 to be shared between up to four CPU's or to be accessed by up to four channels of a single CPU. \*N

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- GJD1-1010  
SYSTEM/360 OS PRIMARY CONTROL PROGRAMS  
MICROFICHE LISTING - PROGRAM NUMBER 360S-CI-566  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1011  
OPERATING SYSTEM/360 TIME SHARING OPTION PROGRAM LISTING  
(TSO) PROGRAM NUMBER 360S-CI-555  
This microfiche contains source listings of program(s)  
referenced in title.
- GJD1-1012  
SYSTEM/360 OS MVT  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1013  
SYSTEM/360 OS DATA MANAGEMENT  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-DM-508  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1014  
SYSTEM/360 OS BASIC DIRECT ACCESS METHOD  
MICROFICHE LISTING - PROGRAM NUMBER 360S-DM-509  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1015  
SYSTEM/360 OS REMOTE JOB ENTRY  
MICROFICHE LISTING - PROGRAM NUMBER 360S-RC-536  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1016  
SYSTEM/360 OS BTAM  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-CQ-513  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1017  
SYSTEM/360 OS QTAM  
MICROFICHE LISTING - PROGRAM NUMBER 360S-CQ-519  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1018  
SYSTEM/360 OS OLTEP  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-DN-533  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1019  
OPERATING SYSTEM/360 CONVERSATIONAL REMOTE JOB ENTRY  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-RC-551  
PROGRAM LISTING  
This document contains Type I OS program listings and  
DOS/OS PTF listings.
- GJD1-1020  
SYSTEM/360 OS ISAM  
MICROFICHE LISTINGS - PROGRAM NUMBER #1S-IO-526  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1021  
SYSTEM/360 OS UTILITIES  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-UT-506  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1022  
OPERATING SYSTEM/360 INDEPENDENT UTILITIES  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-UT-507  
This document contains Type I OS program listings and DOS/OS  
PTF listings.
- GJD1-1023  
OPERATING SYSTEM/360 TELEPROCESSING  
COMMUNICATIONS ACCESS METHOD (TCAM)  
PROGRAM LISTING - PROGRAM NUMBER 360S-CQ-548  
This document contains Type I OS program listings and DOS/OS  
PTF listings.
- GJD1-1025  
SYSTEM/360 OS ALGOL COMPILER-F  
MICROFICHE LISTING - PROGRAM NUMBER 360S-AL-531  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1026  
SYSTEM/360 OS ALGOL LIBRARY  
MICROFICHE LISTING - PROGRAM NUMBER 360S-LM-532  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1030  
MICROFICHE - SOURCE LISTING  
SYSTEM/360-OS ASSEMBLER F 360S-AS-036  
This microfiche contains source listings of program(s)  
referenced in title.
- GJD1-1035  
MICROFICHE - SOURCE LISTING  
SYSTEM/360-OS ASSEMBLER F 360S-AS-037  
This microfiche contains source listings of program(s)  
referenced in title.
- GJD1-1040  
SYSTEM/360 OS COBOL COMPILER-F  
MICROFICHE LISTING - PROGRAM NUMBER 360S-CQ-503  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1042  
SYSTEM/360 OS ANS COBOL  
MICROFICHE LISTING - PROGRAM NUMBER 360S-CB-545  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1043  
SYSTEM/360 OS ANS COBOL LIBRARY  
MICROFICHE LISTING - PROGRAM NUMBER 360S-LM-546  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1044  
SYSTEM/360 OS COBOL F LIBRARY  
MICROFICHE LISTING - PROGRAM NUMBER 360S-LM-525  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1045  
SYSTEM/360 OS COBOL COMPILER-F  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-CB-524  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1048  
SYSTEM/360 OS COBOL LIBRARY  
MICROFICHE LISTING - PROGRAM NUMBER 360S-LM-504  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1050  
MICROFICHE - SOURCE LISTING  
SYSTEM/360-OS FORTRAN F IV 360S-FO-092  
This microfiche contains source listings of program(s)  
referenced in title.
- GJD1-1052  
SYSTEM/360 OS FORTRAN G IV  
MICROFICHE LISTING - PROGRAM NUMBER 360S-FO-520  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1054  
OPERATING SYSTEM/360 FORTRAN SYNTAX CHECKER  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-FO-550  
This document contains Type I OS program listings and  
DOS/OS PTF listings.
- GJD1-1055  
SYSTEM/360 OS FORTRAN H IV  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-FO-500  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1058  
SYSTEM/360 OS FORTRAN LIBRARY IV  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-LM-501  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1060  
SYSTEM/360 OS PL/I COMPILER F  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-NL-511  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1062  
SYSTEM/360 OS SERVICE AIDS  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-DN-554  
Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1065  
OPERATING SYSTEM/360 PL/I SYNTAX CHECKER  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-PL-552  
This document contains Type I OS program listings and  
DOS/OS PTF listings.

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- GJD1-1068  
 SYSTEM/360 OS PL/1 LIBRARY F  
 MICROFICHE LISTINGS - PROGRAM NUMBER 360S-LN-512  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1070  
 MICROFICHE - SOURCE LISTING  
 SYSTEM/360-OS LINKAGE EDITOR E 360S-ED-510  
 This microfiche contains source listings of program(s) referenced in title.
- GJD1-1072  
 SYSTEM/360 OS LINKAGE EDITOR LOADER  
 MICROFICHE LISTINGS - PROGRAM NUMBER 360S-LD-547  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1075  
 SYSTEM/360 OS LINKAGE EDITOR F  
 MICROFICHE LISTINGS - PROGRAM NUMBER 360S-ED-521  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1076  
 SYSTEM/360 OS SER0, SER1  
 MICROFICHE LISTINGS - PROGRAM NUMBER 360S-DN-527  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1077  
 SYSTEM/360 OS RECOVERY MANAGEMENT  
 MICROFICHE LISTINGS - PROGRAM NUMBER 360S-DN-539  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1080  
 SYSTEM/360 OS SORT MERGE  
 MICROFICHE LISTINGS - PROGRAM NUMBER 360S-SM-023  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1085  
 SYSTEM/360 OS TESTRAN  
 MICROFICHE LISTINGS - PROGRAM NUMBER 360S-PT-516  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1090  
 SYSTEM/360 OS GRAPHIC PROGRAMMING SERVICES  
 MICROFICHE LISTINGS - PROGRAM NUMBER 360S-IO-523  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1091  
 SYSTEM/360 OS GRAPHIC SUB-ROUTINE PROGRAM  
 MICROFICHE LISTINGS - PROGRAM NUMBER 360S-LM-537  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1092  
 SYSTEM/360 OS SATELLITE GRAPHIC JOB PROCESS  
 MICROFICHE LISTING - PROGRAM NUMBER 360S-RC-543  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1093  
 SYSTEM/360 OS GRAPHIC JOB PROCESS  
 MICROFICHE LISTING - PROGRAM NUMBER 360S-RC-541  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1094  
 MICROFICHE - SOURCE LISTING  
 SYSTEM/360-OS 1130/360 DATA TRANSMISSION 360S-LM-542  
 This microfiche contains source listings of program(s) referenced in title.
- GJD1-1095  
 SYSTEM/360 OS REPORT PROGRAM GENERATOR  
 PROGRAM NUMBER 360S-RG-038  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- GJD1-1096  
 MICROFICHE FOR OPERATING SYSTEM RELEASE 20.7 PROGRAMS:  
 360S-CI-505 360S-CI-535 360S-CI-555 360S-CQ-548  
 360S-DN-500 360S-DN-509 360S-DN-527 360S-DN-533  
 360S-DN-554 360S-ED-521 360S-IO-526 360S-LD-547  
 460S-LM-512 360S-NL-511 360S-OT-506 360S-OT-507  
 This document contains Type I OS program listings and DOS/OS PTF listings.
- GJD1-1097  
 SYSTEM/360 OPERATING SYSTEM RELEASE SUPPORT DOCUMENTATION  
 (MICROFICHE)  
 This document contains Type I OS program listings and DOS/OS PTF listings.
- GJD1-1098  
 SYSTEM/360 OPERATING SYSTEM RELEASE SUPPORT DOCUMENTATION  
 (MICROFICHE)  
 This document contains Type I OS program listings and DOS/OS PTF listings.
- GJD1-1100  
 MICROFICHE - SOURCE LISTING  
 ATTACHED SUPPORT PROCESSOR (ASPL PROGRAM NUMBER 360A-CX-15X)  
 This microfiche contains source listings of program(s) referenced in title.
- GJD1-1310  
 MICROFICHE - SOURCE LISTING  
 SYSTEM/360 SIMULATOR 1410/7010 360C-SI-754  
 This microfiche contains source listings of program(s) referenced in title.
- GJD1-1370  
 MICROFICHE - SOURCE LISTING  
 SYSTEM/360 SIMULATOR 7070/7074 360C-SI-753  
 This microfiche contains source listings of program(s) referenced in title.
- GJD1-1380  
 MICROFICHE - SOURCE LISTING  
 SYSTEM/360 SIMULATOR 7000 360C-SI-551  
 This microfiche contains source listings of program(s) referenced in title.
- GJD1-1390  
 MICROFICHE - SOURCE LISTING  
 SYSTEM/360 SIMULATOR 7090/7094 360C-SI-750  
 This microfiche contains source listings of program(s) referenced in title.
- GJD1-1400  
 MICROFICHE - SOURCE LISTING  
 SYSTEM/360 EMULATOR (MODEL 40) 1401/1410 360C-EU-074  
 This microfiche contains source listings of program(s) referenced in title.
- GJD1-1410  
 MICROFICHE - SOURCE LISTING  
 SYSTEM/360 EMULATOR (MODEL 40) 360C-EU-728  
 This microfiche contains source listings of program(s) referenced in title.
- GJD1-1420  
 IBM 7094 EMULATOR FOR THE SYSTEM/360 MODEL 85 UNDER OS/360  
 MICROFICHE LISTINGS - PROGRAM NUMBER 360C-EU-734  
 This microfiche contains source listings of program(s) referenced in the title.
- GJD1-1480  
 IBM OPERATING SYSTEM/360 DOS EMULATOR PROGRAM FOR  
 SYSTEM/370 MODELS 145 AND 155 - PROGRAM NUMBER 360C-EU-738  
 Set of 65 fiche containing source code for 45 modules and 1 index. Modules are used in DOS emulator program for System/370 models 145 and 155.
- GJD1-1500  
 MICROFICHE - SOURCE LISTING  
 SYSTEM/360 EMULATOR (MODEL 50) 1410/7010 360C-EU-726  
 This microfiche contains source listings of program(s) referenced in title.
- GJD1-1510  
 MICROFICHE - SOURCE LISTING  
 SYSTEM/360 EMULATOR (MODELS 50 AND 65) 7070/7074 360C-EU-725  
 This microfiche contains source listings of program(s) referenced in title.
- GJD1-1600  
 MICROFICHE - SOURCE LISTING  
 SYSTEM/360 EMULATOR (MODEL 65) 7040/7044 360C-EU-733  
 This microfiche contains source listings of program(s) referenced in title.

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- GJD1-1620  
MICROFICHE - SOURCE LISTING  
SYSTEM/360 EMULATOR (MODEL 65) 7080 360C-EU-727  
This microfiche contains source listings of program(s) referenced in title.
- GJD1-1630  
MICROFICHE - SOURCE LISTING  
SYSTEM/360 EMULATOR (MODEL 65) 7090/7094 360C-EU-729  
This microfiche contains source listings of program(s) referenced in title.
- GJD1-1640  
OPERATING SYSTEM 370/165 OS-7094 INTEGRATED EMULATOR  
MICROFICHE LISTINGS - PROGRAM NUMBER 360C-EU-740  
This document contains Type I OS program listings and DOS/OS PTF listings.
- GJD1-1641  
SYSTEM/360 OPERATING SYSTEM EMULATOR FOR 7074  
ON 370/165 UNDER OPERATING SYSTEM  
PROGRAM LISTING MICROFICHE - PROGRAM NUMBER 360C-EU-739  
This document contains Type I OS program listings and DOS/OS PTF listings.
- GJD1-1642  
7080 EMULATOR FOR SYSTEM/370 MODEL 165 UNDER OPERATING  
SYSTEM/360 - MICROFICHE LISTING - PROGRAM NUMBER 360C-EU-737  
No abstract available.
- GJD1-1643 see page 228
- GJD1-1700  
MICROFICHE - SOURCE LISTING  
SYSTEM/360 MODEL 44 BASIC PROGRAMMING SUPPORT (BPS)  
360F-UT-601  
This microfiche contains source listings of program(s) referenced in title.
- GJD1-1720  
MICROFICHE - SOURCE LISTING  
SYSTEM/360 MODEL 44 BASIC PROGRAMMING SUPPORT 360F-IO-613  
This microfiche contains source listings of program(s) referenced in title.
- GJD1-1740  
MICROFICHE - SOURCE LISTING  
SYSTEM/360 MODEL 44 1620 SIMULATOR FOR 1620 360C-SI-755  
This microfiche contains source listings of program(s) referenced in title.
- GJD1-2000  
MICROFICHE - SOURCE LISTING  
SYSTEM/360 BASIC PROGRAMMING SUPPORT (BPS)  
PROGRAM NUMBERS BEGINNING WITH 360P  
This microfiche contains source listings of program(s) referenced in title.
- GJD1-2010  
MICROFICHE - SOURCE LISTING  
SYSTEM/360-BOS BASIC OPERATING SYSTEM (COMPLETE)  
This microfiche contains source listings of program(s) referenced in title.
- GJD1-2012  
MICROFICHE - SOURCE LISTING  
SYSTEM/360 BOS MACRO LISTINGS, PROGRAM NUMBERS 360B-CL-302,  
360B-IO-303, 360B-IO-304, 360B-IO-305  
360B-SU-023  
This microfiche contains source listings of program(s) referenced in title.
- GJD1-2020  
MICROFICHE - SOURCE LISTING  
SYSTEM/360-TOS CONTROL PROGRAM (COMPLETE)  
This microfiche contains source listings of program(s) referenced in title.
- GJD1-2032  
SYSTEM/360 DISK OPERATING SYSTEM  
MACROS - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-CL-453  
This microfiche contains assembled program listings for DOS/360 BASIC System.
- GJD1-2035  
SYSTEM/360 DISK OPERATING SYSTEM  
SORT/MERGE - TAPE  
MICROFICHE LISTINGS - PROGRAM NUMBER 360N-SM-400
- This microfiche contains assembled program listings for DOS/360 Tape Sort/Merge.
- GJD1-2036  
SYSTEM/360 DISK OPERATING SYSTEM  
SORT/MERGE - DISK  
MICROFICHE LISTINGS - PROGRAM NUMBER 360N-SM-450  
This microfiche contains assembled program listings for DOS/360 Disk Sort/Merge.
- GJD1-2037  
SYSTEM/360 DISK OPERATING SYSTEM  
BASIC FORTRAN IV  
MICROFICHE LISTING - PROGRAM NUMBER 360N-FO-451  
This microfiche contains assembled program listings for DOS/360 FORTRAN D.
- GJD1-2038  
SYSTEM/360 DISK OPERATING SYSTEM  
COBOL - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-CB-452  
This microfiche contains assembled program listings for DOS/360 COBOL D.
- GJD1-2039  
SYSTEM/360 DISK OPERATING SYSTEM  
SYSTEM CONTROL/IOCS  
MICROFICHE LISTINGS - PROGRAM NUMBER 360N-CL-453  
This microfiche contains assembled program listings for DOS/360 System Control and BASIC IOCS.
- GJD1-2040  
SYSTEM/360 DISK OPERATING SYSTEM  
ISFMS - MICROFICHE LISTING - PROGRAM NUMBERS 360N-IO-457,  
360N-IO-477, 360N-IO-478  
This microfiche contains assembled program listings for DOS/360 ISFMS. Listings for Program Optical Character Reader, 360N-IO-478 and Magnetic Character Reader, 360N-IO-477 are also included in this form number.
- GJD1-2042  
MICROFICHE - SOURCE LISTING  
SYSTEM/360-DOS AUTOTEST 360N-PT-459  
This microfiche contains source listings of program(s) referenced in title.
- GJD1-2043  
SYSTEM/360 DISK OPERATING SYSTEM  
RPG/DISK - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-RG-460  
This microfiche contains assembled program listings for DOS/360 Report Program Generator.
- GJD1-2044  
SYSTEM/360 DISK OPERATING SYSTEM  
UTILITY GROUP 1 - MICROFICHE LISTING - PROGRAM 360N-UT-461  
This microfiche contains assembled program listings for DOS/360 Group 1 Utilities - Unit Record/Disk.
- GJD1-2045  
SYSTEM/360 DISK OPERATING SYSTEM  
UTILITY GROUP 2  
MICROFICHE LISTINGS - PROGRAM NUMBER 360N-UT-462  
This microfiche contains assembled program listings for DOS/360 Group 2 Utilities - Tape.
- GJD1-2046  
SYSTEM/360 DISK OPERATING SYSTEM  
UTILITY GROUP 3  
MICROFICHE LISTINGS - PROGRAM NUMBER 360N-UT-463  
This microfiche contains assembled program listings for DOS/360 Group 3 Utilities - Data Cell.
- GJD1-2047  
SYSTEM/360 DISK OPERATING SYSTEM  
PL/I - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-PL-464  
This microfiche contains assembled program listings for DOS/360 PL/I.
- GJD1-2048  
SYSTEM/360 DISK OPERATING SYSTEM  
ASSEMBLER - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-AS-465  
This microfiche contains assembled program listings for DOS/360 Assembler D.

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- GJD1-2049  
 SYSTEM/360 DISK OPERATING SYSTEM  
 ASSEMBLER F - MICROFICHE LISTINGS - PROGRAM 360N-AS-466  
 This microfiche contains assembled program listings for  
 DOS/360 Assembler F.
- GJD1-2050  
 SYSTEM/360 DISK OPERATING SYSTEM  
 BTAM - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-CO-479  
 This microfiche contains assembled program listings for  
 DOS/360 BTAM.
- GJD1-2052  
 SYSTEM/360 DISK OPERATING SYSTEM  
 QTAM - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-CO-470  
 This microfiche contains assembled program listings for  
 DOS/360 QTAM.
- GJD1-2053  
 SYSTEM/360 DISK OPERATING SYSTEM  
 MPS UTILITY MACROS  
 MICROFICHE LISTINGS - PROGRAM NUMBER 360N-UT-471  
 This microfiche contains assembled program listings for  
 DOS/360 MPS Utility Program.
- GJD1-2054  
 S/360 DISK OPERATING SYSTEM  
 VOCABULARY FILE UTILITY PROGRAM - MICROFICHE LISTINGS  
 PROGRAM NUMBER 360N-UT-472  
 Microfiche assembly listings of System/360 Disk Operating  
 System, vocabulary file utility program, 360N-UT-472.
- GJD1-2055  
 SYSTEM/360 DISK OPERATING SYSTEM  
 COMPILER I/O MODULES  
 MICROFICHE LISTINGS - PROGRAM NUMBER 360N-IO-476  
 This microfiche contains assembled program listings for  
 DOS/360 Compiler I/O Modules.
- GJD1-2056  
 SYSTEM/360 DISK OPERATING SYSTEM  
 FORTRAN IV MICROFICHE LISTING - PROGRAMS 360N-FO-479, LM-480  
 This microfiche contains assembled program listings for  
 DOS/360 FORTRAN F. FORTRAN IV Library Subprograms, 360N-  
 LM-480, are included in this form number.
- GJD1-2057  
 SYSTEM/360 DISK OPERATING SYSTEM RELEASE 26 OLTEP  
 PROGRAM NUMBER 360N-DN-481  
 These microfiche assembly listings are of System/360 Disk  
 Operating System, Release 26, OLTEP, program number 360N-DN-  
 481.
- GJD1-2058  
 SYSTEM/360 DISK OPERATING SYSTEM  
 SORT/MERGE DISK/TAPE  
 MICROFICHE LISTINGS - PROGRAM NUMBER 360N-SM-483  
 This microfiche contains assembled program listings for  
 DOS/360 Tape/Disk Sort/Merge.
- GJD1-2059  
 SYSTEM/360 DISK OPERATING SYSTEM - MICROFICHE LISTINGS -  
 CE SERVICEABILITY PROGRAM  
 OLTEP - PROGRAM NUMBER 360N-DN-481  
 This microfiche contains assembled program listings for  
 DOS/360 Customer Engineer aids.
- GJD1-2060  
 SYSTEM/360 DISK OPERATING SYSTEM  
 ANS COBOL - MICROFICHE LISTING - PROGRAM NUMBER 360N-CB-482  
 This microfiche contains assembled program listings for  
 DOS/360 American National Standard COBOL.
- GJD1-2063  
 DISK OPERATING SYSTEM MODEL 155 EMULATOR  
 MICROFICHE LISTINGS - PROGRAM NUMBER 360N-EU-490  
 These cards contain assembled program listings for the  
 DOS/360 Model 155 Emulator.
- GJD1-2100  
 EMULATOR FOR 1401/1440/1460 ON THE SYSTEM/370 MODEL 155  
 UNDER OS. MICROFICHE LISTING - PROGRAM NUMBER 360C-EU-735  
 No abstract available.
- GJD1-2150  
 EMULATOR FOR THE IBM 1401/1440/1460 ON THE SYSTEM/370  
 MODEL 155 UNDER OS PROGRAM NUMBER 360C-EU-735  
 MICROFICHE LISTINGS  
 No abstract available.
- GJD1-2300  
 MICROFICHE - SOURCE LISTING  
 SYSTEM/360 EMULATOR (MODEL 30) 1401/1460 360C-EU-097  
 This microfiche contains source listings of program(s)  
 referenced in title.
- GJD1-3070  
 MICROFICHE - SOURCE LISTING  
 IBM 1800 MPX MULTIPROGRAMMING EXECUTIVE SYSTEM 1800-OS-010  
 REFERENCE CARD  
 This microfiche contains source listings of program(s)  
 referenced in title.
- GJD1-4610  
 MICROFICHE - SOURCE LISTING  
 SYSTEM/360 FORTRAN IV TO PL/I LANGUAGE CONVERSION PROGRAM  
 360C-CV-710  
 This microfiche contains source listings of program(s)  
 referenced in title.
- GJD1-4620  
 MICROFICHE - SOURCE LISTING  
 SYSTEM/360 COBOL TO PL/I LANGUAGE CONVERSION PROGRAM  
 360C-CV-712  
 This microfiche contains source listings of program(s)  
 referenced in title.
- GJD1-9000  
 MICROFICHE - SOURCE LISTING  
 SYSTEM/360 USA STANDARD COBOL LANGUAGE CONVERSION PROGRAM  
 360C-CV-713  
 This microfiche contains source listings of program(s)  
 referenced in title.
- GJD1-9030  
 MICROFICHE - SOURCE LISTING  
 SYSTEM/360-TSS (CONTROLLED RELEASE I) 360G-CL-627  
 This microfiche contains source listings of program(s)  
 referenced in title.
- GL19-0003  
 CUSTOM SYSTEM DESCRIPTION: IBM 2970 MODEL 8 BANK TERMINAL,  
 RPO 858230  
 The IBM 2970 Model 8 Bank Terminal is an Input/Output  
 Writer, cable-connected to a Control Unit. The keyboard  
 of the I/O Writer is similar to that of a typewriter, but  
 with the convenience of an adding-machine-layout portion  
 for teller's entry, via the Control Unit and communications  
 facilities, of financial transaction information. A  
 System/360 performs computations and remotely operates  
 the I/O Writer to update passbooks and other documents.  
 This manual provides basic information for planning  
 for 2970 Model 8's in a bank system, for programming bank  
 applications, and for setup and operations by supervisors  
 and tellers.  
 The manual is prepared for use by systems analysts  
 and systems engineers with a knowledge of bank policies,  
 programmers with a knowledge of the System/360 programming  
 system used at their particular installation, and  
 supervisors and tellers with a knowledge of their bank's  
 procedures.
- GL21-9071  
 IBM 2501 CARD READER, MODELS A AND B RPO FEATURES  
 This publication describes two RPO features; i.e. second  
 stacker and 51/00 column card features.  
 To use this publication effectively, the reader must  
 be familiar with the operations of the standard IBM 2501  
 Models A1, A2, B1, and B2. The operations of the 2501  
 Models A1 and A2 are described in the publication, IBM  
 SYSTEM/360 MODEL 20, 2501 CARD READER, Form A26-5892. The  
 operations of the 2501 Models B1 and B2 are described in  
 the publication, IBM 2501 MODELS B1 AND B2, COMPONENT  
 DESCRIPTION AND OPERATING PROCEDURES, Form A21-9026.
- GL22-6871  
 IBM SYSTEM/360 2911 MANUAL SWITCHING UNIT MODELS 1, 2, and 5  
 AND 2989 REMOTE SWITCHING CONSOLE SPECIAL SYSTEMS FEATURE  
 This bulletin describes the function of the 2911 Manual  
 Switching Unit and the 2989 Remote Switching Console for  
 System/360 signal lines.

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- GL22-6890  
SPECIAL SYSTEMS FEATURE BULLETIN, IBM 2930 MODEL 001, TAPE INTERSYSTEM CONNECTING UNIT - RPO M22146  
This bulletin describes the operation of the IBM 2930, Model 001, Tape Intersystem Connecting Unit, which is a special systems feature for connection a 1401, 1410, 1460, or any 7000-series system to a System/360.  
The reader's familiarity with IBM SYSTEM/360 PRINCIPLES OF OPERATION, Form A22-6821 is presumed.
- GL22-6901  
IBM 2937 MODELS 1, 2, AND 3, MULTIPLIER-SUMMATION PROCESSOR, SPECIAL SYSTEM FEATURE, RPO 880626  
This bulletin describes the function of the multiplier summation processor as an input/output device of the IBM System/360. Physical and electrical requirements are given along with illustrations of the formation of final product sums.
- GL22-6902  
IBM SYSTEM/360 MODEL 40 SUM OF PRODUCTS INSTRUCTION - RPO W12561 SPECIAL SYSTEMS FEATURE  
This bulletin describes the function of a new instruction, Sum of Products, as an option of System/360 Model 40. Computation of the convolution integral is possible with this single instruction. The instruction is described and timing and overflow considerations are given.
- GL22-6903  
IBM SYSTEM/360 MODEL 40, HALFWORD TRANSLATE INSTRUCTION - RPO W13462 SPECIAL SYSTEMS FEATURE  
This bulletin describes the function of a new instruction, Halfword Translate, as an option of System/360 Model 40. The instruction is used in a data move operation. A description of the instruction is given, together with its timing.  
Halfword Translate, a new instruction in System/360 Model 40, operates in a manner similar to the normal translate instruction. The two instructions differ in that the translate table is halfword translate occupies a possible 65,536 bytes or 32,768 halfword entries. Instruction functions are in accordance with the following description.  
The instruction is used in a data move type operation, selecting data from a record and forming a table of data which can be used with RPO W12561, Sum of Products instruction. Halfword translate uses the SS format and operation code E3.
- GL22-6904  
IBM SYSTEM/360 MODEL 40, TABLE ADDRESS CHAINING - RPO W13518 SPECIAL SYSTEMS FEATURE  
This bulletin describes the function of table address chaining as a System/360 Model 40 I/O data chaining option. A description of the option is given together with restrictions for use of the option.
- GL22-6928  
IBM AIRLINES RESERVATION SYSTEM, REMOTE EQUIPMENT INSTALLATION MANUAL - PHYSICAL PLANNING  
This manual contains information necessary for planning the physical installation of the remote equipment for an IBM Airlines Reservation System.  
In addition to technical information needed for physical installation planning, it contains recommendations and suggestions to be used as a guide only in planning an efficient and pleasant installation. The customer should make such arrangements as he deems necessary for professional consultant's services in planning his installation. It is important that local and national code requirements be adhered to by the customer.
- GL22-6936  
IBM 2914 SWITCHING UNIT MODEL 1, RPO 880882, CUSTOM FEATURE: INSTALLATION MANUAL - PHYSICAL PLANNING  
This manual contains physical planning data necessary to install the IBM 2914 Switching Unit Model 1. The planning requirements of this unit are subject to modification by engineering developments.  
In any multiple-equipment installation, specifications for the most critical unit must be met.
- GL22-6937  
IBM SYSTEM/360 CUSTOM FEATURE DESCRIPTION 2914 SWITCHING UNIT MODEL 1 - RPO 884882  
This publication describes the organizational, functional, and operational characteristics of the IBM 2914 Switching Unit Model 1, which attaches to the IBM System/360 Models 25, 30, 40, 44, 50, 65, 67, 75, and 85. Attachment to a System/360 is via the standard System/360 I/O interface of a selector or multiplexer channel.
- GL22-6940  
IBM 2969 PROGRAMMABLE TERMINAL INTERCHANGE MODEL 1--RPO888117  
This reference manual contains a direct, comprehensive description of the IBM 2969-1 system structure; of the logical, translation, switching, and input/output operations; and of the interruption system. The 2969-1 is a stored-program teleprocessing unit, which performs the functions of a highly sophisticated communications network-CPU. The CPU may be an IBM System/360 Model 50, 65, or 195 under control of the Airlines Control Program or an equivalent control program using the same interface.
- GL22-6945  
IBM 2969 PROGRAMMABLE TERMINAL INTERCHANGE MODEL 1, RPO 888117 - INSTALLATION MANUAL - PHYSICAL PLANNING  
This manual contains all the physical planning data necessary to install the IBM 2969 Programmable Terminal Interchange Model 1, RPO 888117. The requirements are subject to modification by engineering developments. Note that in any multiple-equipment installation, specifications for the most critical unit must be met.  
Data is given in the standard format and with the standard symbols found in IBM System/360 Installation Manual - Physical Planning (GC22-6820), which is a required reference.  
This publication is intended for use by customer and IBM installation planning personnel, as well as architects, and electrical and building contractors.
- GL22-6960  
IBM RESERVATION SYSTEM CUSTOM FEATURE DESCRIPTION  
This publication describes the functional and operational characteristics of the input/output units used as remote and local equipment in an IBM Reservation System. These input/output units form a subsystem for the generation and display of reservation messages to and from the central processing unit (CPU). The subsystem can attach to the CPU either directly, via wire lines, or remotely, via leased common-carrier or private telephone lines.  
This manual is intended for users of reservation systems and assumes a background knowledge of data processing equipment and basic teleprocessing techniques.
- GL22-6979  
IBM 2947 MODEL 4 CHECK COLLECTION CONTROLLER (RPO 888264) FUNCTIONAL CHARACTERISTICS - REFERENCE MANUAL  
This publication describes the overall functions, organization, and operation of the IBM 2947 Model 4 Check Collection Controller. Information concerning reader-sorter and printer operations with the required definitions for initialization data, sort control words, printer control and formatting data, and sense and status data are provided.  
Although generally the information is written to an audience level of a systems engineer, it may be of interest to anyone seeking information about the general characteristics and operation of the 2947 Model 4. In particular, the information required to supplement the Assembly Facility User's Guide (LC28-6689) in writing assembly language user programs for the 2947 Model 4 is provided.  
The reader is assumed to have an understanding of banking data processing and a basic knowledge of the IBM 1419 Model 1 Magnetic Character Reader and the IBM 1403 Model N1 Printer as described in IBM 1219 Reader Sorter, IBM 1419 Magnetic Character Reader (GA24-1499), and IBM 1403 Printer Component Description (GA24-3073).  
This information is subject to engineering development modification.
- GL22-6982  
IBM 2947 CHECK COLLECTION CONTROLLER MODEL 4 (RPO 888264) INSTALLATION MANUAL PHYSICAL PLANNING  
This manual contains all physical planning data necessary to install the IBM 2947-4 Check Collection Controller.  
If a unit is to be installed in conjunction with a computer system, specifications for the most critical unit must be met. Similarly, units installed in conjunction with the 2947-4 require specifications to be met for the most critical unit in the installation.  
Data follows the same format and uses the same standardized symbols as IBM System/360 Installation Manual Physical Planning (GC22-6820).
- GL24-3570  
IBM 2946 TERMINAL CONTROL SUBSYSTEM COMPONENT DESCRIPTION AND OPERATING GUIDE  
This reference publication describes the IBM 2946 Terminal Control Subsystem used with an IBM Programmed Airlines Reservations System (PARS), or equivalent. Subsystem components are: IBM 2946 Terminal Control Unit Model 1 and 2, and 4 (RPO 810480, RPO 810491, and RPO 810555), IBM 4505 Model 22 Keyboard (RPO 8G0019), IBM 4505 Model 23 Video Display (RPO 8G0016), and IBM 1980 Model C24 Printer (RPO

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886126). Presented for reservations system planners, programmers, and terminal operators are: unit descriptions, line control, message formats, operator controls, and operating procedures.

For reservations system operation and terminology, refer to PARS Terminal User's Guide (A-09-GIG0), available through the local sales representative.

GL24-3571

IBM 2946 TERMINAL CONTROL SUBSYSTEM INSTALLATION MANUAL  
PHYSICAL PLANNING

This publication provides physical planning information for the IBM 2946 Terminal Control Unit Models 1, 2, and 4 (RPQ 810400, RPQ 810491, and RPQ 810555), and associated input/output units used in an IBM Programmed Airlines Reservation System (PARS): IBM 4505 Model 22 Keyboard (RPQ 8G0819), IBM 4505 Model 23 Video Display (RPQ 8G0160, IBM 1900 Model C24 Printer (RPQ 888126), and IBM 7411 Model 1 Remote Terminal Control Unit (RPQ 8K0142). Included are physical specifications and cable, electrical, and environmental requirements.

For related publications, see IBM System/360 and System/370 Bibliography, GA22-6822.

GL24-3591

IBM 2927 TAPE-TO-PRINTER UNIT RPQ 812390 & 812391  
COMPONENT DESCRIPTION

This reference publication for system planners, programmers, and operators provides information required to use the IBM 2927 Tape-to-Printer Unit. The 2927 consists of two tape drives and a control unit (RPQ 812390) and a printer control unit (RPQ 812391). Used with an IBM 1403 Printer Model N1, the 2927 serves as a stand-alone, programmable tape-to-printer system.

Major subjects presented are:

- o Tape Drives--drive controls, operating procedures, and user maintenance
- o Tape Control Unit--I/O operations, command codes, and programming and status information
- o Printer Control Unit--core storage allocations, data flow, logical processing and transferring of data, error detection and recovery, and operating procedures
- o Programming Concepts--coding examples and instructions for building a loadable program tape. Referenced are several programs that can be adapted to the 2927 tape-to-printer operation.

Prerequisite publications are IBM System/360 Principles of Operation, Order Number GA22-6821, and IBM System/360 Reference Card, GX20-1703.

GL24-3592

IBM 2927 TAPE-TO-PRINTER UNIT, RPQ 812390 AND 812391:  
INSTALLATION MANUAL - PHYSICAL PLANNING

This publication provides physical planning information for those planning for and preparing for the site for the installation of the IBM 2927 Tape-to-Printer Unit which consists of a tape control unit (RPQ 812390) and a printer control unit (RPQ 812391). Included are physical specifications, and cable, electrical, and environmental requirements.

For the function and operation of this unit, refer to IBM 2927 Tape-to-Printer Unit Component Description and Operating Procedures (GL24-3591). For general physical planning information, refer to IBM System/360 Installation Manual--Physical Planning (GA22-6820). For related publications, see IBM System/360 and System/370 Bibliography (GA22-6822).

GL24-3596

IBM 2922 PROGRAMMABLE TERMINAL REQ'S 810563, 810564, 810565  
INSTALLATION MANUAL--PHYSICAL PLANNING

This publication provides physical planning information for those planning and preparing a site for the installation of the IBM 2922 Programmable Terminal that consists of an IBM 2922-1 Terminal Control Unit, an IBM 2922-2 Terminal Printer, and an IBM 2922-3 Terminal Card Reader. Included are physical specifications and cable, electrical, and environmental requirements.

For the function and operation of this unit, refer to IBM 2922 Programmable Terminal Component Description, GL24-3597. For general physical planning information, refer to IBM System/360 Installation Manual--Physical Planning, GA22-6820, or IBM System/370 Installation Manual--Physical Planning, GC22-7084.

GL24-3597

IBM 2922 PROGRAMMABLE TERMINAL (RPQ 810563, 810564 AND 810565) COMPONENT DESCRIPTION AND OPERATING PROCEDURES AND 810565) COMPONENT DESCRIPTION AND OPERATING PROCEDURES  
This publication, for system planners, programmers, and operators, presents the functional description and operating procedures of the IBM 2922 Programmable Terminal. The 2922

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consists of a 2922-1 Terminal Control Unit (RPQ 810563), cable-connected to a 2922-2 Terminal Printer (RPQ 810564) and a 2922-3 Terminal Card Reader (RPQ 810656). This programmable terminal is an extension of the IBM 2780 Data Transmission Terminal via commercial telephone lines with a customer-provided data set.

Chapter 1 describes the 2922: data formats, instructions, time sharing, arithmetic and logical functions, and gives programming suggestions and terminal console operation.

Chapter 2 presents operating procedures for the reader, printer and the optional printer-keyboard. Associated instructions are also described.

Chapter 3 discusses the binary synchronous communications adapter: operating principles, transmission codes, instruction sets, control characters, and sense information.

Appendixes contain reference information: conversion tables, operation and condition codes, instruction examples, stop codes, and a glossary.

Associated publication: IBM 2780 Data Transmission Terminal, Component Description, Order No. GA27-3085.

GL27-3009

2905 REMOTE MULTIPLEXER COMPONENT DESCRIPTION

This publication describes the IBM 2905 Remote Multiplexer and its operation. The 2905 is used with various IBM and common-carrier terminals and is connected to an IBM System/360 through the IBM 2906 Data Transmission Unit. Communication facilities that can be used with the 2905 are specified.

GL27-3010

IBM SYSTEM/360 CUSTOM SYSTEMS UNIT,  
2905 REMOTE MULTIPLEXER, 2906 TRANSMISSION CONTROL,  
INSTALLATION MANUAL - PHYSICAL PLANNING

This publication contains detailed physical-planning information for the IBM 2905 Remote Multiplexer and the IBM 2906 Transmission Control. Dimensions, weights, cable specifications, service clearances, physical specifications, and electrical and environmental requirements for each unit are included.

GL27-3022

CUSTOM SYSTEM DESCRIPTION:  
IBM 2740-1/2950-2 BATCH BUFFER TERMINAL SYSTEMS REFERENCE  
LIBRARY MANUAL

This manual describes the IBM 2740-1/2950-2 Batch Buffer Terminal, which consists of a modified 2740 Communication Terminal Model 1 attached to a 2950 Model 2 Batch Buffer. Specific information is given on configurations, operational characteristics, operating procedures, and special features.

This manual is intended for use by systems analysts, systems engineers, customer supervisory personnel, and 2740/2950 operators. Readers should have a basic knowledge of teleprocessing and disk operating principles.

GL27-3025

IBM 2740-1/2950-2 BATCH BUFFER TERMINAL  
INSTALLATION MANUAL - PHYSICAL PLANNING

This manual, when used with the SRL (Systems Reference Library) publication IBM REMOTE MULTIPLEXERS AND COMMUNICATIONS TERMINALS: INSTALLATION MANUAL-PHYSICAL PLANNING, Form A27-3006, will provide the information necessary to plan your physical facilities and communication lines for installing the 2740-1/2950-2 Batch Buffer Terminal. SRL Form A27-3006 provides detailed requirements for the IBM 2740-1 and necessary communication lines. All cables are supplied by IBM and shipped with the units.

GQ27-6939

IBM SYSTEM/360 OPERATING SYSTEM RELEASE 20  
MFT GUIDE A FIXED NUMBER OF TASKS (MFT)  
PROGRAM NUMBER 360S-CI-505  
No abstract available.

GQ28-6628

OS SYSTEM CONTROL BLOCKS (PRIOR EDITION)

This publication is a prior edition of publication order number GC28-6628 and is used with OS Release 20.0.

GQ28-6631

OS MESSAGES AND CODES (PRIOR EDITION)

This publication is a prior edition of publication order number GC28-6631 and is used with OS Release 20.0.

GQ28-6646

OS SUPERVISOR SERVICES AND MACRO INSTRUCTIONS  
(PRIOR EDITION)

This publication is a prior edition of publication order number GC28-6646 and is used with OS Release 20.

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- GQ28-6650  
IBM SYSTEM/360 OPERATING SYSTEM RELEASE 20  
ON-LINE TEST EXECUTIVE PROGRAM SYSTEMS REFERENCE  
LIBRARY MANUAL - PROGRAM NUMBER 360S-DN-533  
 No abstract available.
- GQ28-6720  
OS MVT GUIDE (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6720 and is used with OS Release 20.0.
- GQ68-6660  
OS MVT JOB MANAGEMENT - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6660 and is used with OS Release 20.0.
- SR20-1078  
SYSTEM/360 - 370 OPERATOR'S REFERENCE GUIDE  
 This manual is intended for use by anyone operating a S/360. Topics covered include: trouble analysis (flow charts), manual procedures on the CPU, sense and status data, IPL procedure, I/O device handling procedures, and Operating System information on OS and DOS.
- GT00-0002  
OS DATA MANAGEMENT SERVICES (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC26-3746 and is used with OS Release 20.1 and Release 20.0.
- GT00-0003  
OS ASSEMBLER (F) PROGRAMMER'S GUIDE  
PROGRAM NUMBER 360S-AS-037 (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC26-3756 and is used with OS Release 20.1 and Release 20.0.
- GT00-0004  
OS GRAPHIC PROGRAMMING SERVICES FOR THE IBM 2260 DISPLAY STATION - PROGRAM NUMBER 360S-IO-523 (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC27-6912 and is used with OS Release 20.1, Release 20.0 and Release 19.
- GT00-0005  
OS MFT GUIDE - PROGRAM NUMBER 360S-CI-505 (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC27-6939 and is used with OS Release 20.1.
- GT00-0006  
OS ASSEMBLER LANGUAGE - PROGRAM NUMBERS 360S-AS-036  
360S-AS-037 (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6514 and is used with OS Release 20.1 and Release 20.0.
- GT00-0007  
OS LINKAGE EDITOR AND LOADER PROGRAM NUMBERS 360S-ED-521,  
360S-ED-510 AND 360S-LD-547 (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6538 and is used with OS Release 20.1, Release 20.0 and Release 19.
- GT00-0008  
OS SORT/MERGE - PROGRAM NUMBER 360S-SM-023 (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6543 and is used with OS Release 20.1 and Release 20.0.
- GT00-0009  
OS DATA MANAGEMENT FOR SYSTEM PROGRAMMER'S GUIDE  
PROGRAM NUMBER 360S-CI-555 (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6550 and is used with OS Release 20.1.
- GT00-0010  
OS STORAGE ESTIMATE (PRIOR RELEASE)  
 This publication is a prior edition of publication order number GC28-6551 and is used with OS Release 20.1.
- GT00-0011  
OS SYSTEM GENERATION (PRIOR RELEASE)  
 This publication is a prior edition of publication order number GC28-6554 and is used with OS Release 20.1 and Release 20.0.
- GT00-0012  
OS UTILITIES - PROGRAM NUMBERS 360S-UT-506, 360S-UT-507  
(PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6586 and is used with OS Release 20.1 and Release 20.0.
- GT00-0013  
OS ALGOL LANGUAGE  
 This publication is a prior edition of publication order number GC28-6615 and is used with OS Release 20.1, Release 20.0 and Release 19.
- GT00-0014  
OS SYSTEM CONTROL BLOCKS (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6628 and is used with OS Release 20.1.
- GT00-0015  
OS MESSAGES AND CODES (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6631 and is used with OS Release 20.1.
- GT00-0016  
OS SUPERVISOR SERVICES AND MACRO INSTRUCTIONS  
(PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6646 and is used with OS Release 20.0.
- GT00-0017  
OS ON-LINE TEXT EXECUTIVE PROGRAM (PRIOR EDITION)  
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- GT00-0018  
OS PROGRAMMER'S GUIDE TO DEBUGGING (PRIOR EDITION)  
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- GT00-0019  
OS TAPE LABELS (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6680 and is used with OS Release 20.1 and Release 20.0.
- GT00-0020  
OS SYSTEM/360 OPERATING SYSTEM OPERATOR'S REFERENCE MANUAL  
(PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6691 and is used with OS Release 20.1 and Release 20.0.
- GT00-0021  
OS ISO GUIDE  
 This publication is a prior edition of publication order number GC28-6698 and is used with OS Release 20.1.
- GT00-0022  
OS JOB CONTROL LANGUAGE REFERENCE MANUAL (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6704 and is used with OS Release 20.1.
- GT00-0023  
OS ADVANCED CHECKPOINT/RESTART (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6708 and is used with OS Release 20.1, Release 20.0 and Release 19.
- GT00-0024  
OS SYSTEMS MANAGEMENT FACILITIES (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6712 and is used with OS Release 20.1.
- GT00-0025  
OS SERVICE AIDS (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6719 and is used with OS Release 20.1 and Release 20.0.
- GT00-0026  
OS MVT GUIDE (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6720 and is used with OS Release 20.1.

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- GT00-0027  
OS RELEASE GUIDE (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6730 and is used with OS Release 20.1.
- GT00-0028  
OS TSO COMMAND LANGUAGE REFERENCE (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6732 and is used with OS Release 20.1
- GT00-0029  
OS RDE GUIDE (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6747 and is used with OS Release 20.1.
- GT00-0030  
OS TSO TERMINAL USER'S GUIDE (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6763 and is used with OS Release 20.1.
- GT00-0031  
OS TSO GUIDE TO WRITING A TERMINAL MONITOR PROGRAM OR A COMMAND PROCESSOR (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6764 and is used with OS Release 20.1.
- GT00-0032  
OS REMOTE JOB ENTRY (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC30-2006 and is used with OS Release 20.1, Release 20.0 and Release 19.
- GT00-0033  
OS CONVERSATIONAL RJE CONCEPTS AND FACILITIES (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC30-2012 and is used with OS Release 20.1, Release 20.0 and Release 19.
- GT00-0034  
OS CONVERSATIONAL RJE TERMINAL USER'S GUIDE (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC30-2014 and is used with OS Release 20.1 Release 20.0 and Release 19.
- GT00-0035  
OS CONVERSATIONAL RJE SYSTEM PROGRAMMER'S GUIDE (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC30-2016 and is used with OS Release 20.1, Release 20.0 and Release 19.
- GT00-0037  
OS ALGOL PROGRAMMER'S GUIDE (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC33-4000 and is used with OS Release 20.1, Release 20.0 and Release 19.
- GT00-0039  
OS IBM 1285, 1287, 1288 OPTICAL READERS - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY21-0013 and is used with OS Release 20.1, Release 20.0 and Release 19.
- GT00-0040  
OS GRAPHICS ACCESS METHOD - PLM (PRIOR EDITION)  
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- GT00-0041  
OS JOB MANAGEMENT WITH MFT-PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY27-7128 and is used with OS Release 20.1 and Release 20.0.
- GT00-0042  
OS MACHINE CHECK HANDLER FOR S/370 MODEL 155, 165-PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY27-7198 and is used with OS Release 20.1 and Release 20.0.
- GT00-0043  
OS TSO CONTROL PROGRAM - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY27-7199 and is used with OS Release 20.1.
- \*N GT00-0044  
OS MFT SUPERVISOR - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY27-7236 and is used with OS Release 20.1 and Release 20.0.
- \*N GT00-0045  
OS MACHINE CHECK HANDLER FOR S/370 MODELS 135, AND 145 PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY27-7237 and is used with OS Release 20.1.
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OS AMERICAN NATIONAL STANDARD COBOL - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6395 and is used with OS Release 20.1, Release 20.0 and Release 19.
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OS SORT/MERGE - PLM (PRIOR EDITION)  
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- GT00-0048  
OS SEQUENTIAL ACCESS METHOD - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6604 and is used with OS Release 20.1.
- GT00-0049  
OS CATALOG MANAGEMENT - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6606 and is used with OS Release 20.1, Release 20.0 and Release 19.
- GT00-0050  
OS DIRECT ACCESS DEVICE SPACE MANAGEMENT - PLM (PRIOR EDITION)  
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- GT00-0052  
OS UTILITIES - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6614 and is used with OS Release 20.1 and Release 20.0.
- GT00-0053  
OS INPUT/OUTPUT SUPERVISOR - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6616 and is used with OS Release 20.1.
- GT00-0054  
OS BASIC DIRECT ACCESS METHOD - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6617 and is used with OS Release 20.1.
- GT00-0055  
OS INDEXED SEQUENTIAL ACCESS METHODS - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6618 and is used with OS Release 20.1.
- GT00-0056  
OS ON-LINE TEST EXECUTIVE PROGRAM - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6551 and is used with OS Release 20.1.
- GT00-0057  
OS MVT SUPERVISOR - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6659 and is used with OS Release 20.1 and Release 20.0.
- \*N GT00-0058  
OS MVT JOB MANAGEMENT - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6660 and is used with OS Release 20.1.

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- GT00-0059  
OS INITIAL PROGRAM LOADER AND INITIALIZATION PROGRAM - PLM (PRIOR EDITION)  
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- GT00-0060  
OS LINKAGE EDITOR (F) - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6667 and is used with OS Release 20.1 and Release 20.0.
- GT00-0061  
OS TSO TERMINAL MONITOR PROGRAM AND SERVICE ROUTINES - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6770 and is used with OS Release 20.1.
- GT00-0062  
OS CONVERSATIONAL RJE - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY30-2011 and is used with OS Release 20.1, Release 20.0 and Release 19.
- GT00-0063  
OS TSO COMMAND PROCESSOR VOL. 3 - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6773 and is used with OS Release 20.1.
- GT00-0064  
OS OPERATOR'S GUIDE FOR DISPLAY CONSOLES  
 This publication is a prior edition of publication order number GC27-6949 and is used with OS Release 20.1, Release 20.0 and Release 19.
- GT28-6514  
IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER LANGUAGE PROGRAM NUMBERS 360S-AS-037, 360S-AS-036 BACK LEVEL  
 No abstract available.
- GT28-6543  
IBM SYSTEM/360 OPERATING SYSTEM SORT/MERGE PROGRAM NUMBER 360S-SM-023 BACK LEVEL  
 No abstract available.
- GT28-6550  
OS DATA MANAGEMENT FOR SYSTEM PROGRAMMER'S GUIDE PROGRAM NUMBER 360S-CI-555 (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6550 and is used with OS Release 20.0 and Release 19.
- GT28-6551  
OS STORAGE ESTIMATE (PRIOR RELEASE)  
 This publication is a prior edition of publication order number GC28-6551 and is used with OS Release 19.
- GT28-6554  
OS SYSTEM GENERATION (PRIOR RELEASE)  
 This publication is a prior edition of publication order number GC28-6554 and is used with OS Release 19.
- GT28-6586  
IBM SYSTEM/360 OPERATING SYSTEM RELEASE 19 AND 20 UTILITIES - PROGRAM NUMBER 360S-UT-507, 360S-UT-506, 3730-UT2  
 No abstract available.
- GT28-6628  
OS SYSTEM CONTROL BLOCKS (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6628 and is used with OS Release 19.
- GT28-6631  
OS MESSAGES AND CODES (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6631 and is used with OS Release 19.
- GT28-6670  
OS PROGRAMMER'S GUIDE TO DEBUGGING (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6670 and is used with OS Release 19.
- GT28-6680  
OS TAPE LABELS (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6680 and is used with OS Release 19.
- GT28-6691  
OS SYSTEM/360 OPERATING SYSTEM OPERATOR'S REFERENCE MANUAL (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6691 and is used with OS Release 19.
- GT28-6698  
OS TSO GUIDE (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6698 and is used with OS Release 20.1.
- GT28-6704  
OS JOB CONTROL LANGUAGE REFERENCE MANUAL (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6704 and is used with OS Release 20.0 and Release 19.
- GT28-6719  
OS SERVICE AIDS (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6719 and is used with OS Release 19.
- GT28-6730  
OS RELEASE GUIDE (PRIOR EDITION)  
 This publication is a prior edition of publication order number GC28-6730 and is used with OS Release 20.0.
- GT28-6825  
IBM SYSTEM/360 OPERATING SYSTEM, DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY: PLI AND BASIC GENERAL INFORMATION - PROGRAM NUMBERS 5736-RC1, 5736-RC2 5736-RC1,2  
 This is a non-current version of GC28-6825-01.
- GT28-6830  
IBM SYSTEM/360 DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY: PL/I AND BASIC - PROGRAM NUMBERS 5736-RC1 5736-RC2  
 No abstract available.
- ST28-6833  
IBM SYSTEM/360 OS/DOS ITF: PL/I INTRODUCTION PROGRAM NUMBERS 5734-RC1, 5736-RC1  
 This is a non-current version of SC28-6833-00.
- ST28-6836  
IBM SYSTEM/360 OS/DOS ITF INSTALLATION REFERENCE MATERIAL PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2  
 This is an earlier version of SC28-6836-00.
- GT60-0305  
SYSTEM/360 ATTACHED SUPPORT PROCESSOR SYSTEM (ASP) VERSION 2 SYSTEM MANUAL PROGRAM NUMBER 360A-CX-15X  
 The Attached Support Processor (ASP) system is an operating system that provides a compatible extension to Operating System/360 (OS/360). Designed primarily for the commercial and scientific customer with a computer job shop environment, ASP provides for increased automation of the computing operation. The ASP system operates as a programmed operator of OS/360, providing an operational interface for controlling the system job stream, thus optimizing the use of the computer's resources.  
 This manual is intended primarily for the use of the system programmer at an installation. It contains a detailed description of each of the programs that constitute the ASP system and flowcharts of the programs (Appendix A).
- GT60-6604  
OS SEQUENTIAL ACCESS METHOD - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6604 and is used with OS Release 20.0 and Release 19.
- GT60-6607  
IBM SYSTEM/360 OPERATING SYSTEM DIRECT ACCESS DEVICE SPACE MANAGEMENT - PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-AS-037  
 No abstract available.

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- GT68-6614  
OS UTILITIES - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6614 and is used with OS Release 19.
- GT68-6616  
IBM SYSTEM/360 OPERATING SYSTEM: INPUT/OUTPUT SUPERVISOR PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 360S-CI-505  
 No abstract available.
- GT68-6617  
OS BASIC DIRECT ACCESS METHOD - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6617 and is used with OS Release 20.0 and Release 19.
- GT68-6618  
IBM SYSTEM/360 OPERATING SYSTEM INDEXED SEQUENTIAL ACCESS METHOD - PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 360S-IO-526  
 No abstract available.
- GT68-6661  
OS INITIAL PROGRAM LOADER AND INITIALIZATION PROGRAM - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6661 and is used with OS Release 19.
- GT68-6667  
OS LINKAGE EDITOR (P) - PLM (PRIOR EDITION)  
 This publication is a prior edition of publication order number GY28-6667 and is used with OS Release 19.
- LT68-6832  
IBM SYSTEM/360 OS/DOS IFF PROGRAM LOGIC MANUAL  
INTRODUCTION AND METHOD OF OPERATION  
PROGRAM NUMBERS 5734-RC1, RC3; 5736-RC1, RC2  
(PREVIOUS RELEASE)  
 This is a non-current version of LY28-6832
- LT68-6833  
 \*N  
IBM SYSTEM/360 OS/DOS IFF PROGRAM LOGIC MANUAL  
INITIALIZATION SYSTEM CONTROL AND SYSTEM SUPPORT  
PROGRAM LOGIC MANUAL - PROGRAM NUMBERS 5734-RC1,  
5734-RC3, 5736-RC1, 5736-RC2  
 This is a non-current version of LY28-6833
- LT68-6834  
IBM SYSTEM/360 OS/DOS IFF PROGRAM LOGIC LANGUAGE  
COMPONENT CONTROLLER PROGRAM LOGIC MANUAL  
PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2  
 This is a non-current version of LY28-6834
- LT68-6840  
 \*N  
IBM SYSTEM/360 OS/DOS IFF PROGRAM LOGIC MANUAL  
PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2  
 This is a non-current version of LY28-6840-00.
- ST88-6813  
IBM SYSTEM/360 OS/DOS IFF: PL/I REFERENCE CARD  
PROGRAM NUMBERS 5734-RC1, 5736-RC1  
 This is a non-current version of SX28-6813-00.
- ST88-6814  
IBM SYSTEM/360 OPERATING SYSTEM IBM SYSTEM/360 DISK  
OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY BASIC  
REFERENCE CARD, PROGRAM NUMBERS 5736-RC2, 5734-RC3  
 This is a non-current version of SX28-6814-00.
- GX20-1702  
PROPORTIONAL RECORD LAYOUT FORM  
 The front side of this form consists of the Proportional Record Layout Form. It is suitable for card, tape, and disk records. Positional markings are 00-99 and 01-100 in decimal notation, and 00-63 and 01-64 in hexadecimal notation. The back side of the form is the record format form. This form permits record layouts to be prepared without the space limitations of positional markings. Space is also provided for reference data. These are general-purpose forms and may be used for all systems.
- GX20-1703  
IBM SYSTEM/360 REFERENCE DATA CARD  
 This reference card, intended primarily for use by Assembly System/360 Principles of Operation (GA22-6821). It also contains other frequently used System/360 Assembler Language and input/output information. This reference card, intended primarily for use by Assembly Language programmers, contains basic System/360 machine information extracted from the System/360 Principles of Operation SRL Manual (GA22-6821). It also contains other frequently used Assembler information, a multi-code translation table, and command codes for various I/O devices.
- GX20-1704  
IBM 2321 DATA CELL DRIVE  
 A capacity and transmission time reference card arranged in a tabular format. Formulas and examples of how to use the card are included.
- GX20-1705  
IBM 2311 DISK CELL DRIVE REFERENCE CARD  
 A capacity and transmission time reference card arranged in a tabular format. Formulas and examples of how to use the card are included.
- GX20-1709  
IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT - BASIC UTILITIES REFERENCE CARD  
PROGRAM NUMBERS 360P-UT-017, 360P-UT-018, 360P-UT-019,  
360P-UT-020  
 This reference card is a digest of form C28-6505. It contains information needed to make use of the Basic Programming Support Basic Utility Programs, including an example of coding and deck setup.
- GX20-1710  
IBM 2314 DIRECT ACCESS STORAGE FACILITY CAPACITY AND TRANSMISSION TIME REFERENCE CARD  
 This reference card provides a convenient reference and several informative examples for planning and programming purposes. Tables include timing and capacity with and without keys.
- GX20-1711  
IBM SYSTEM/360 RECORD LAYOUT WORKSHEET  
 Padded forms showing double word, word, halfword and byte boundaries. Bytes marked to accommodate packed-decimal digits. Provides for two records of 256 positions each, both in hexadecimal and decimal numbering.
- GX20-1717  
IBM 2301 DRUM STORAGE  
 This reference card describes the capacity of the 2301 and the data transmission time requirements for records of various lengths. Formulas and examples supplement the tables.
- GX20-1739  
 \*N  
OPERATING SYSTEM/360 REFERENCE CARD:  
LINKAGE EDITOR AND LOADER  
 This pocket reference card contains condensed information on linkage editor control statements and job control language for linkage editor and loader, extracted from SRL manual, IBM System/360 Operating System Linkage Editor and Loader (GC28-6538).
- GX20-1741  
IBM 1207 OPTICAL READER DOCUMENT TRACING GUIDE  
 This card is a forms-design guide for assisting the 1207 user in the physical layout of input documents.
- GX20-1749  
IBM SYSTEM/360 DOS/TOS REFERENCE CARD PL/I  
 Reference information based on data contained in the IBM System/360 PL/I Subset Reference Manual.
- GX20-1751  
IBM 2260 DISPLAY FORMAT  
 This coding sheet is used in designing displays for the 2260. The form provides space for a display to be transmitted from System/360 to a 2260, and expected operator response.
- GX20-1758  
IBM SYSTEM/360 MODEL 30 1401/1440/1460 COMPATIBILITY FEATURE REFERENCE CARD  
 A reference card for the System/360 Model 30, 1401/1440/1460 Compatibility Feature.

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- GX20-1759  
IBM 1287 OPTICAL READER DESIGN FORMATS  
 This sheet contains formats for laying out forms to be read by the 1287. The form includes standard mark-read column designs, hand-print blocks from two to seven digits, and optical reference marks.
- GX20-1761  
MATHEMATICAL PROGRAMMING INPUT FORM  
SYSTEM/360 - 1130  
 This is a Mathematical Programming Input Form 25 sheets to a pad, 8 1/2 x 11, 3 hole punch.
- GX20-1771  
IBM SYSTEM/360 REFERENCE DATA DOS JOB CONTROL LANGUAGE OPERATOR COMMUNICATION REFERENCE CARD  
 A reference card for DOS job control language operator communication.
- GX20-1780  
COURSEWRITER III SYSTEM STUDENT/MONITOR REFERENCE CARD  
PROGRAM NUMBERS 5734-E12 360A-UX-01X  
 This card is a ready reference tool when working on a 1050 Terminal.
- GX20-1781  
IBM AUTHOR'S COURSEWRITER III REFERENCE CARD  
PROGRAM NUMBERS 360A-UX-01X, 5734-E12  
 Used in conjunction with Coursewriter III System/360 Version 2.
- GX20-1782  
IBM SUPERVISOR'S COURSEWRITER III REFERENCE CARD  
PROGRAM NUMBERS 5734-E12, 360A-UX-01X  
 Used in conjunction with Coursewriter III System/360 Version 2.
- GX20-1787  
DEBUGGING AID  
DIRECT EVALUATION OF FLOATING POINT NUMBERS IN HEXADECIMAL  
 The following tables can be used to evaluate a floating point number represented in hexadecimal form. The technique uses a table lookup in the hexadecimal integer table, and a table lookup in the hexadecimal fraction table. The user unites the integer from the first table with the fraction from the second table, to form one number, and then performs a calculation to obtain the value of the floating point number.
- GX20-1807  
SHARED LABORATORY INFORMATION SYSTEM CLM CODING SHEET  
PROGRAM NUMBER 5736-H12  
 Form for input to SLS with space for codes including location, test, method, sequence number, result flag and code, worksheet and heading flags, diet hold, spec, test name station and code, print sort, heading print, comment type, call, lab, comb, chg, user area, action, and test name abbreviation.
- GX20-1808  
SHARED LABORATORY INFORMATION SYSTEM CLM CODING SHEET  
PROGRAM NUMBER 5736-H12  
 Form for input to SLS including coding categories of card location, test, method, sequence, test weight, operating method, combination test and constituent tests.
- GX20-1809  
SHARED LABORATORY INFORMATION SYSTEM CLM CODING SHEET  
PROGRAM NUMBER 5736-H12  
 Form for input to SLS in categories including location test and method codes, sequence number, results, headings, shift, decimal, substitutions, delta checks, ranges, batches, statistics and result.
- GX20-1810  
CALL/360-OS PL/I REFERENCE CARD PROGRAM NUMBER 360A-CX-42X  
 This pocket-size reference card summarizes in convenient form the PL/I language facilities of the CALL/360-OS program.
- GX20-1811  
CALL/360-OS BASIC REFERENCE CARD PROGRAM NUMBER 360A-CX-42X  
 This pocket-size reference card summarizes in convenient form the BASIC language facilities of the CALL/360-OS program.
- GX20-1812  
CALL/360-OS FORTRAN REFERENCE CARD PROGRAM NUMBER 360A-CX-42X  
 This pocket-size reference card summarizes in convenient form the FORTRAN language facilities of the CALL/360-OS program.
- GX20-1817  
SYSTEM/360 POWER II REFERENCE CARD  
 This reference card is intended to summarize the command codes and operator messages for IBM System/360 DOS POWER II.
- GX20-1827  
SYSTEM/360/370 ASP REFERENCE CARD.  
PROGRAM NUMBER 360A-CX-15X  
 This card contains excerpts from GH20-0321 and reflects the status of ASP as of Version 2.4.1.
- GX20-1828  
GENERAL PURPOSE SIMULATION SYSTEM V, (GPSS V), BLOCK STATEMENT FORMATS SYSTEM OPTIONS - PROGRAM NUMBERS 5734-XS2 5736-XS3  
 This reference card defines the block statement formats of GPSS V.
- GX20-1829  
GENERAL PURPOSE SIMULATION SYSTEM V REFERENCE CARD  
PROGRAM NUMBERS 5734-SY2 (OS) 5736-SY3 (DOS)  
 This reference card contains information to readily assist the GPSS V user. Charts showing control standard format, standard numerical attributes and system options are included.
- GX20-1830  
CALL-OS TERMINAL COMMAND LANGUAGE - REFERENCE CARD  
PROGRAM NUMBER 360A-CX-42X  
 No abstract available.
- GX20-1832  
COURSEWRITER III VERSION 3 MONITOR REFERENCE CARD PROGRAM NUMBERS 5736-E11 (DOS) 5734-E13 (OS)  
 This reference card contains information to readily assist the user of coursewriter III Version 3. Monitor command notes and a keyboard summary chart are included. Information is extracted from the student/Monitor User's guide, SH20-1010.
- GX20-1833  
COURSEWRITER III VERSION 3 AUTHOR'S REFERENCE CARD  
PROGRAM NUMBERS 5736-E11 (DOS) 5734-E13 (OS)  
 This reference card contains information to readily assist to user of Coursewriter III Version 3. Notes, author commands, and keyboard summary chart are included. The information is extracted from Coursewriter III Version 3 Author's Guide, SH20-1009.
- GX20-1834  
COURSEWRITER III, VERSION 3 STUDENT REFERENCE CARD  
OPERATING HINTS - PROGRAM NUMBER 5736-E11 (DOS) 5734-E13 (OS)  
 This reference card contains information to readily assist the user of Coursewriter III Version 3. Operating hints, student commands and keyboard summary is included. Information is extracted from the Student Monitor User's Guide, SH20-1010.
- GX20-1835  
COURSEWRITER III, VERSION 3 SUPERVISOR'S REFERENCE CARD  
PROGRAM NUMBERS 5736-E11 (DOS) 5734-E13 (OS)  
 This reference card contains information to readily assist the user of Coursewriter III, Version 3. Notes, commands and arguments are listed. This information is extracted from the Supervisor's Guide, SH20-1011.
- GX20-1850  
SYSTEM/370 REFERENCE SUMMARY  
 This reference card is intended primarily for use by Assembly language programmers. It contains basic System/370 machine information extracted from the System/360 and System/370 Principles of Operation (GA22-6821 and GA22-7000) It also contains frequently used assembler information, a multi-code translation table, and command codes for various I/O devices.

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- GX20-8020  
FLOWCHARTING TEMPLATE  
 This plastic template provides cut-out shapes for drawing standard symbols used frequently in flowcharting computer systems and programs. It is enclosed in an envelope outlining definitions of symbols and use of the template. More details are given in the Data Processing Techniques manual on FLOWCHARTING TECHNIQUES (GC20-8152).
- GX21-9090  
RPG OUTPUT SPECIFICATIONS SHEET  
 This is a form for coding RPG output-format specifications for the IBM System/3, System/360, and 1130. It is printed in reproducible green ink.
- GX21-9091  
RPG EXTENSIONS AND LINE COUNTER SPECIFICATIONS SHEET  
 This form is provided as an aid to the programmer writing an RPG program for the IBM 1130 and 360. It is printed in reproducible green ink.
- GX21-9092  
RPG CONTROL CARD AND FILE DESCRIPTION SPECIFICATION SHEET  
 This form is provided as an aid to the programmer writing an RPG program for the IBM System/3, System/360, and 1130. It is printed in reproducible green ink.
- GX21-9093  
RPG CALCULATION SPECIFICATIONS SHEET  
 This is a form for coding RPG calculation specifications for the IBM System/3, System/360, and 1130. It is printed in reproducible green ink.
- GX21-9106  
IBM 1288 DOCUMENT GAUGE FOR MACHINE SETUP  
 An illustrated and descriptive document - alignment and machine-setup instruction folder.
- GX21-9129  
RPG DEBUGGING TEMPLATE  
 This template is a quick tool for programmers debugging RPG programs.
- GX22-6835  
PHYSICAL PLANNING TEMPLATE IBM SYSTEM/360 HYPERTAPE  
 Equipment templates on acetate sheets, 1/4 inch equals 1 foot scale, for planning machine room layouts.
- GX22-6837  
 2401 - 2404 AND 2415 MAGNETIC TAPE UNITS  
 This pocket-size reference folder is to assist in estimating tape processing times and block (record) capacity per full reel.
- GX22-6855  
IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 AND SYSTEM/370 MAGNETIC TAPE UNITS AND CONTROLS  
 Now includes 3410/3411 layouts.
- GX22-6856  
PHYSICAL PLANNING TEMPLATE SYSTEM/360 PROCESSOR MODEL 075  
 Equipment templates on acetate sheets, 1/4 inch equals 1 foot scale, for planning machine room layouts.
- GX22-6857  
IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 AND SYSTEM/370 COMMUNICATIONS EQUIPMENT  
 Equipment templates on 8-1/2 by 11 inch acetate sheets, two pages, for planning machine room layouts. Scale: 1/4 inch equals one foot. Includes four 2701's, two 2702's, one 2703, one 2711, one 2715-1,2, two 7770-3's, and one 7772-3.
- GX22-6858  
IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 AND SYSTEM/370 DATA STORAGE DEVICES  
 Equipment templates on 8-1/2 x 11 inch acetate sheets, six pages, for planning machine room layouts. Scale: 1/4 inch equals one foot. Includes four 2301-1's, two 2302-3,4's, four 2303-1's, two 2305-1,2's (shown on two facilities), eight 2311-1's, one 2312-A1, two 2313-A1's, one 2314-A1, one 2314-B1, one 2314-1, two 2319-A1's, two 2319-A2's, one 2319-B1, two 2319-B2's, four 2321-1's (with two shown abutted), one 2820-1, two 2835-1,2's, four 2841-1's, two 2844's, six 3330's (two on one facility and four on another), and two 3830's.
- GX22-6859  
IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 AND SYSTEM/370 CONSOLES AND TERMINALS  
 Equipment templates on 8-1/2 x 11 inch acetate sheets, two pages, for planning machine room layouts. Scale: 1/4 inch equals one foot. Includes two 2150's, two 2250-1's, two 2250-3's, two 2260's with keyboards, two 2260's without keyboards, one 2285, two 2840-2's, four 2840's (two of both types), one 3210-1, one 3210-2, and one 3215-1.
- GX22-6860  
IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 AND SYSTEM/370 MAGNETIC AND OPTICAL CHARACTER READERS  
 Equipment templates on 8-1/2 x 11 inch acetate sheets, two pages, for planning machine room layouts. Scale: 1/4 inch equals one foot. Includes one 1231-M1, one 1255-1,2, one 1255-3, one 1259-2, one 1285-1, one 1287-1,2, one 1287-3,4, one 1288-1, one 1412-1 and accumulator, one 1418-1,2,3 or 1428-1,2,3, and one 1419-1.
- GX22-6894  
IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 MODELS 22, 25, 30, AND 40  
 Equipment templates on 8-1/2 x 11 inch acetate sheets, two pages, for planning machine room layouts. Scale: 1/4 inch equals one foot. Includes two each of: 2022, 2025, 2030, and 2040.
- GX22-6905  
PHYSICAL PLANNING TEMPLATE SYSTEM/360 MODEL 67  
 Equipment templates on acetate sheets, 1/4 inch equals 1 foot scale, for planning machine room layouts.
- GX22-6914  
PHYSICAL PLANNING TEMPLATE SYSTEM/360 PROCESSORS MODELS 44 AND 50  
 Equipment templates on acetate sheets, 1/4 inch equals 1 foot scale, for planning machine room layouts.
- GX22-6923  
PHYSICAL PLANNING TEMPLATE SYSTEM/360 MODEL 85  
 Equipment templates on acetate sheets, 1/4 inch equals 1 foot scale, for planning machine room layouts.
- GX22-6924  
PHYSICAL PLANNING TEMPLATE SYSTEM/360 MODEL 65 MULTISYSTEM  
 Equipment templates on acetate sheets, 1/4 inch equals 1 foot scale, for planning machine room layouts.
- GX22-6925  
IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 AND SYSTEM/370 FIELD ENGINEERING FURNITURE AND TEST EQUIPMENT SYSTEM/360 SYSTEM/370 TEST EQUIPMENT ANALYZER FURNITURE BASIC STORAGE MODULE DATA ADAPTER UNIT  
 Furniture and test equipment templates on 8-1/2 x 11 inch acetate sheet, for planning FE room layouts. Scale: 1/4 inch equals one foot. Includes one desk, one workbench, one study table, one bookcase, one card file, one microfiche viewer, one tool and test equipment cart, one BSM cart, one FE/DAU, one BSM analyzer, and two shelf cabinets, two parts cabinets, two book carts, and three file cabinets.
- GX22-6981  
IBM PHYSICAL PLANNING TEMPLATE SYSTEM/360 MODEL 195  
 Equipment templates on 8-1/2 x 11 inch acetate sheets, 5 pages, for planning machine room layouts. Scale: 1/4 inch equals 1 foot. Includes one composite 3195 Model J and K, one composite 3195 Model KJ and L, one 3060-1, one 3085, one 3086, three 3080s, two 2860s, two 2870s, and four 2880s.
- GX22-6984  
IBM SYSTEM/370 MODEL 165 OPERATORS REFERENCE CARD  
 This reference card highlights necessary operating procedures and abbreviated step-by-step instructions for operating the System/370 Model 165. The information is condensed from the IBM System/370 Model 165 Operating Procedures (GA22-6969).
- GX22-6985  
IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 AND SYSTEM/370 CHANNELS: 2860, 2870, AND 2880  
 Equipment templates on two 8-1/2 x 11-inch acetate sheets, for planning machine room layouts. Scale: 1/4 inch equals one foot. Includes three 2860's, three 2870's, and four 2880-1,2's.

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- GX22-7005  
IBM PHYSICAL PLANNING TEMPLATE SYSTEM/370 MODEL 145  
 Equipment templates on 8-1/2 x 11 inch acetate sheets, 1 page, for planning machine room layouts. Scale: 1/4 inch equals 1 foot. Includes one 3145, one 3145 with 3345/3346, one 3145 with 3345/3346 and natively attached disk storage, one 3210-1, and one 3210-2. Positioning is also shown for 3210-1 and 3215.
- GX22-7006  
IBM PHYSICAL PLANNING TEMPLATE SYSTEM/370 MODEL 155  
 Equipment templates on 8-1/2 x 11 inch acetate sheets, 2 pages, for planning machine room layouts. Scale: 1/4 inch equals 1 foot. Includes one 3155 composite of Models H-J, one 3155 composite of Models JI and K, and one 3210-2. Positioning is also shown for 3210-1 and 3215.
- GX22-7007  
IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/370 MODEL 165  
 Equipment templates on 8-1/2 x 11 inch acetate sheets, three pages, for planning machine room layouts. Scale: 1/4 inch equals one foot. Includes one composite 3165 Models I and J with 3360's, one composite 3165 Models JI and K with 3360's, one composite 3165 Model KJ with 3360's, one 3066-1, and one 3067.
- GX22-7008  
IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/370 MODEL 135  
 Equipment template on 8-1/2 x 11 inch acetate sheet, 1 page, for planning machine room layouts. Scale: 1/4 inch equals one foot. Includes one 3135 with five attached disk storage drives and one 3046-1.
- GX22-7018  
IBM PHYSICAL PLANNING TEMPLATE SYSTEM/360 AND SYSTEM/370  
 Equipment templates on 8-1/2 x 11 inch acetate sheets 1 page, for planning machine room layouts. Scale: 1/4 inch equals 1 foot. Includes one composite 3271, 3272, 3275, 3277-1 and 3277-2, 3284, 3286.
- GX24-3376  
IBM SYSTEM/360 MODEL 30 IBM 1052 KEY-TABS  
 These key-tabs are fastened on the front of the keys on the IBM 1052 when the Model 30 is being operated in 1400 Compatibility Mode.
- GX24-3406  
IBM SYSTEM/360 MODEL 30 IBM 2702 WORKSHEET  
 Multiplexer channel multiplex mode loading evaluation for IBM System/360 Model 30 may indicate an apparent overload for the IBM 2702 Transmission Control Unit (when attached to the multiplexer channel). This worksheet is then used with an alternate procedure for evaluation of the 2702. This worksheet is designed for use with the alternate procedure for the 2702 described in IBM SYSTEM/360 MODEL 30 CHANNEL CHARACTERISTICS AND FUNCTIONAL EVALUATION, GA24-3411.
- GX24-3407  
IBM SYSTEM/360 MODEL 30 MULTIPLEXER CHANNEL WORKSHEET  
 Worksheet is used to facilitate evaluation of the channel effects imposed upon IBM System/360 Model 30 when the multiplexer channel is operating in multiplex mode. The evaluation procedure is described in IBM SYSTEM/360 MODEL 30 CHANNEL CHARACTERISTICS AND FUNCTIONAL EVALUATION, GA24-3411.
- GX24-3448  
IBM 1445 PRINTER SPACING CHART  
 This chart is scaled in non-photographic blue and provides 113 printing positions at eight characters per inch for carriage spacing of six lines per inch. Vertical rulings are shown for each inch or every eight characters apart to assist in printing layout. A carriage-control tape facilitates planning for tape punching. Space is available on the top of the form to indicate miscellaneous print line formats.
- GX24-3477  
IBM 1400 COMPATIBILITY INITIALIZATION DECK SYSTEM/360 MODEL 30 CODING SHEETS 1 AND 2  
 Coding sheet for 1400 Compatibility Deck for System/360 Model 30 through 65K.
- GX24-3541  
MULTIPLEXER CHANNEL WORKSHEET - SYSTEM/360 MODEL 25 CONFIGURATION A AND B  
 Worksheet is used to facilitate evaluation of the channel effects imposed upon IBM System/360 Model 25 when the multiplexer channel is operating in multiplex mode. The evaluation procedure is described in IBM SYSTEM/360 MODEL 25 CHANNEL CHARACTERISTICS AND FUNCTIONAL EVALUATION, GA24-3538.
- GX24-5046  
IBM SYSTEM/360 ASSEMBLER CODING FORM, BPS/BOS/TOS/DOS DTFSR ENTRIES, CARD READ-PUNCH PROGRAM NUMBERS 360N-AS-309, 360N-AS-465, 360N-465, 360N-AS-466, 360P-AS-321, 360P-AS-291  
 Coding form for recording source instructions to be key punched for input to Assembler program.
- GX24-5047  
IBM SYSTEM/360 ASSEMBLER CODING FORM, BPS/BOS/TOS/DOS DTFSR ENTRIES, PRINTER AND PRINTER-KEYBOARD  
 Coding form for recording source instructions for keypunching into input code for assembler program.
- GX24-5048  
IBM SYSTEM/360 ASSEMBLER CODING FORM, BOS/DOS DTFSR ENTRIES, DISK PROGRAM NUMBERS 360N-AS-465, 360N-AS-466, 360E-AS-309  
 Coding form for recording source instructions for keypunching input to Assembler program.
- GX24-5055  
IBM SYSTEM/360 ASSEMBLER CODING FORM, TOS/DOS HTMOD, CUMOD, AND PRMOD ENTRIES PROGRAM NUMBERS 360N-AS-465, 360N-AS-466  
 Coding form for recording source instructions to be keypunched for Assembler program.
- GX26-1587  
IBM REFERENCE CARD, DECIMAL/HEXADECIMAL INTEGER CONVERSION CHART  
 This chart is used to convert decimal numbers to hexadecimal and hexadecimal numbers to decimal. The chart covers the range of integers from 0000 to 4095. Additional instructions are provided to convert decimal and hexadecimal numbers beyond this range.
- GX26-1588  
IBM REFERENCE CARD, DECIMAL/HEXADECIMAL FRACTION CONVERSION CHART  
 This chart is used to convert decimal fractions to hexadecimal and hexadecimal fractions to decimal. The chart covers the range of fractions from 0.00000000 to 0.00075586. Additional instructions are provided to convert decimal and hexadecimal fractions beyond this range.
- GX26-5500  
IBM PHYSICAL PLANNING TEMPLATE SYSTEM/360 PROCESS I/O DEVICES  
 This template gives a scaled representation of the physical planning specifications for the IBM System/360 process I/O devices.
- GX27-2901  
IMAGE PLANNING CHART - 2760 OPTICAL IMAGE UNIT, REGISTRATION PUNCHING ACME  
 No abstract available.
- GX27-2902  
IMAGE PLANNING CHART - 2760 OPTICAL IMAGE UNIT REGISTRATION PUNCHING OXBERRY  
 No abstract available.
- GX27-2950  
2250 DISPLAY LAYOUT SHEET  
 Sheet used to plan locations, on 2250 Display screen, of output areas.
- GX28-1464  
COBOL CODING FORM  
 This form is used for COBOL coding.
- GX28-1520  
IBM REFERENCE CARD - COBOL  
 This reference card is used for COBOL.
- GX28-6304  
IBM FORTRAN IV REFERENCE CARD  
 This reference card contains FORTRAN IV information for IBM 1130 System and IBM 1800 System (1130/1800), IBM System/3,

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- IBM System/360 Disk Operating System (DOS), IBM System/360 Operating System (G, H, G1, H Extended, and Code and Go), IBM System/360 Time Sharing System (TSS/360), IBM Call/360-OS (CALL/360), American National Standard FORTRAN, X3.9-1966, and American National Standard Basic FORTRAN, X3.10-1966. This card is intended to be used as a secondary reference. The basic program documentation is the authoritative source and will be the first to reflect any changes and improvements to the FORTRAN IV language.
- GX28-6400  
TSS/360 QUICK GUIDE FOR USERS  
PROGRAM NUMBER 360G-CL-627  
Small hand type, quick reference manual on TSS/360. Provides information on terminals, commands, FORTRAN, and Assembler.
- GX28-6401  
TSS/360 QUICK GUIDE FOR SYSTEMS PROGRAMMERS  
PROGRAM NUMBER 360G-CL-627  
REFERENCE CARD  
This publication is designed to serve as a "quick guide" for System Programmers using TSS/360. It contains reference information about TSS, assembler and control blocks.
- GX28-6506  
IBM SYSTEM/360 BASIC ASSEMBLER SHORT CODING FORM  
PROGRAM NUMBER 360P-AS-021  
This form is designed to assist programmers in coding programs in the IBM System/360 special support basic assembler language, as described in (GX28-6503)
- GX28-6507  
IBM SYSTEM/360 BASIC ASSEMBLER LONG CODING FORM  
This form is designed to assist programmers in coding programs in the IBM System/360 special support basic assembler language, as described in (GX28-6503)
- GX28-6509  
IBM SYSTEM/360 ASSEMBLER CODING FORM  
Coding form for entry of source data to be keypunched for Assembler programs.
- GX28-6731  
OPERATING SYSTEM SUMMARY CHART  
This wallchart can be used to document the standard and optional items in the individual system/360 or system/370 Operating System. The user checks the boxes beside the items in his system, or supplies the number, name, or address where appropriate.
- GX28-6749  
IBM OPERATING SYSTEM/360 REFERENCE CARD: SERVICE AIDS  
This reference card contains information extracted from manual GC28-6719-0, IBM Operating System/360 Service Aids and applies to Release 19.
- GX28-6812  
SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM - FORMATS FOR MACHINE-CHECK INTERRUPTION DIAGNOSTICS  
This reference card is used for System/360 Model 44 - formats for machine-check interruption diagnostics.
- GX28-6813  
IBM SYSTEM/360 OS/DOS ITP: PLI REFERENCE CARD  
PROGRAM NUMBERS 5734-RC1, 5736-RC1  
A 12-page folder containing the keys to symbols in formats, system information and ITP:PL/I Language.
- GX28-6814  
IBM SYSTEM/360 OPERATING SYSTEM  
IBM SYSTEM/360 DISK OPERATING SYSTEM  
INTERACTIVE TERMINAL FACILITY: BASIC REFERENCE CARD  
PROGRAM NUMBERS 5734-RC3, 5736-RC2  
Reference card containing information on system and ITP: BASIC.
- GX28-7327  
FORTRAN CODING FORM  
This is a form for coding FORTRAN statements. punching.
- GX33-6000  
IBM SYSTEM/360 OPERATING SYSTEM PL/I (E)  
REFERENCE CARD: KEYWORDS  
No abstract available.
- SX33-6001  
DISK OPERATING SYSTEM/360 REFERENCE CARD PL/I OPTIMIZING COMPILER KEYWORDS  
This reference card contains information to readily assist the user of the DOS PL/I Optimizing Compiler. Keywords, their use and examples are included. The information is extracted from the IBM System/360 Disk Operating System PL/I Optimizing Compiler Language Reference Manual, Order Number SC33-0005.
- SX33-6002  
OS PL/I OPTIMIZING AND CHECKOUT COMPILERS: KEYWORDS, TERMINAL COMMANDS, AND COMPILER OPTIONS  
REFERENCE CARD - PROGRAM NUMBERS 5734-PL1, PL2, PL3  
This reference card contains extracts from documents related to OS PL/I Optimizing and Checkout compilers. Keywords, terminal commands, and compiler options are recorded.
- GX35-5001  
IBM SYSTEM/360/370 REFERENCE DATA 2401-2409, 2415, 2420, AND 3420 MAGNETIC TAPE UNITS  
This pocket-size reference card assists in estimating tape processing times and block capacities per full reel for all IBM tape systems currently in production. This card obsoletes X22-6837.
- LYA2-5203  
IBM SYSTEM/360 AND SYSTEM/370 SUBROUTINE LIBRARY MATHEMATICS - MICROFICHE LISTING - PROGRAM NUMBER 5736-XM7  
This microfiche contains program listings for IBM System/360 and System/370 SL-MATH, Program 5736-XM7.
- LYA9-2007  
IBM VEHICLE SCHEDULING PROGRAM--EXTENDED (OS) PROGRAM LOGIC MANUAL, VOLUME III PROGRAM LISTINGS - MICROFICHE, PROGRAM NUMBER 5734-XM5  
The program listings for the IBM Vehicle Scheduling Program--Extended have been placed on microfiche. They have been cross-referenced to the flowcharts which are available in Volume II of the Program Logic Manual, Form LY19-2006.
- LYA9-2008  
IBM VEHICLE SCHEDULING PROGRAM -- EXTENDED (DOS) PROGRAM LOGIC MANUAL, VOLUME III PROGRAM LISTINGS - MICROFICHE PROGRAM NUMBER 5734-XM5  
The program listings for the IBM Vehicle Scheduling Program -- Extended have been placed on microfiche. They have been cross-referenced to the flowcharts which are available in Volume II of the Program Logic Manual, Form LY19-2006.
- GYB0-0304  
PROJECT CONTROL SYSTEM/360 VERSION 2 MICROFICHE-LISTINGS PROGRAM NUMBER: 360A-CP-06X  
This publication (on microfiche) contains the DOS assembler and DOS FORTRAN Compiler output listings for PCS/360, Version 2.
- GYB0-0347  
SYSTEM/360 MATRIX LANGUAGE (MATLAN) LISTINGS, PROGRAM NUMBER 360A-CN-05X  
This Microfiche Publication contains the Assembler and Compiler listings for the System/360 Matrix Language (MATLAN) program. It should be used in conjunction with the MATLAN System Manual (GY20-0261).
- GYB0-0346  
SYSTEM/360 AD-APT/AUTOSPOT (OS) NUMERICAL CONTROL PROCESSOR: LISTINGS APPLICATION - PROGRAM NUMBER 360A-CN-12X  
This manual contains assembly listing for System/360 AD-APT/AUTOSPOT (OS) NUMERICAL CONTROL PROCESSOR. They should be used in conjunction with the System Manual (GY20-0267).
- GYB0-0414  
LINEAR PROGRAMMING SYSTEM/360 (LPS/360) COMPILATION/ASSEMBLY LISTINGS MANUAL MICROFICHE - PROGRAM NUMBER 360A-CO-18X  
This manual (on microfiche) contains the compilation/assembly listings of all LPS source modules except those that are IBM proprietary.
- LYB0-0433  
INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360: SYSTEM MANUAL, VOLUME III - ASSEMBLY LISTINGS MICROFICHE PROGRAM NUMBER 5736-CX3, FEATURE CODE 8003  
This manual contains program listings which may be used in conjunction with the information contained in Volumes I and II. These listings appear in alphabetic order by module name and a cross-reference index is supplied which relates the assembly modules to the load modules.

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- LYB0-0454  
PROJECT MANAGEMENT SYSTEM/360: VERSION 3, LISTINGS - SYSTEM MANUAL MICROFICHE  
PROGRAM NUMBER 5734-XP1, FEATURE CODE 8301  
This manual contains the assembler language listings of all the subroutines of PMS/360 Version 3 (5734-XP1). It should be used in conjunction with the Network Processor System Manual (feature 8101), Cost Processor System Manual (feature 8102), Report Processor System Manual (feature 8103), Resource Allocation Processor System Manual (feature 8104), and Flowchart Manual (feature 8105).
- LYB0-0470  
APL/360-OS ASSEMBLER LISTINGS  
PROGRAM NUMBER 5734-XM1, FEATURE CODE 8301  
This manual contains the assembler listings for the subject program.
- LYB0-0471  
APL/360-DOS ASSEMBLER LISTINGS  
PROGRAM NUMBER 5736-XM1  
This manual contains the assembler listings for the subject program.
- LYB0-0480  
LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM (LEMNAS) VOLUME 2 LISTINGS - MICROFICHE  
SYSTEM MANUAL PROGRAM NUMBER 5736-G21, FEATURE CODE 8401  
The System/360 Law Enforcement Manpower Resource Allocation System (LEMNAS) is a system which can assist police departments in the planning and evaluation of patrol manpower use, applying scientific management techniques to maintain and analyze information relating to called-for-service activity. LEMNAS forecasts future activity over user-defined geographic areas and time periods. The forecasted activity may, upon request, be analyzed to derive information on the number of patrol units required to answer the calls. LEMNAS-prepared information may also be combined with other data to help derive total manpower requirements.  
This microfiche manual presents the program assembly and linkage edit listings. The program, narratives, flowcharts, and the switch and register usage lists are in Volume 1 of the LEMNAS System Manual (LY20-0479).
- GYB0-0492  
SYSTEM/360 VEHICLE SCHEDULING PROGRAM (360A-ST-06X) LISTINGS - SYSTEM MANUAL  
This microfiche manual contains the assembler listings for the Schedule Production and Distance list sections of VSP/360. Only the microfiche edition is available.
- GYB0-0507  
IBM SYSTEM/360 DOS POWER II: LISTINGS - MICROFICHE  
PROGRAM NUMBER 360D-05.2.006  
This manual contains the source listing of the macros of POWER II (priority Output Writers, Execution Processors, and Input Readers) and a sample assembly of the program. This manual is available in microfiche only.
- GYB0-0508  
IBM SYSTEM/360 ATTACHED SUPPORT PROCESSOR SYSTEM (ASP) VERSION 2 MICROFICHE, PROGRAM NUMBER 360A-CX-15X  
This manual is available in microfiche only and contains the assembly listings for the Attached Support Processor (ASP) Version 2.
- GYB0-0515  
2495 UTILITY FOR OS/360 - LISTINGS  
PROGRAM NUMBER 360D-00.0.020  
This fiche contains the assembly listings for 2495 Utility Program. It is available only in the microfiche edition.
- GYB0-0516  
CONVERSATIONAL REMOTE BATCH ENTRY (CRBE) VERSION 2: MOD 8 LISTINGS PROGRAM NUMBER 360D-05.1.016  
This manual contains the assembly listings for Version 2, Modification level 7 of the Conversational Remote Batch Entry (CRBE) program. Only the microfiche edition is available.
- GYB0-0517  
CONVERSATIONAL PROGRAMMING SYSTEM (CPS) VERSION 5 LISTINGS  
PROGRAM NUMBER 360D-03.4.016  
The abstract for this item may be found by referring to the abstract for the order number which appears below the title above.
- GYB0-0527  
SYSTEM/360 DOS POWER II, VERSION 2, WITH REMOTE JOB ENTRY (RJE) - LISTINGS  
PROGRAM NUMBER 360D-05.2.006  
This manual contains the listings and a sample assembly of the macros for Version 4 of DOS Poser II/RJE (Priority Output Writers, Execution Processors, and Input Readers, with Remote Job Entry). The listings should be used in conjunction with the program description and operations manual for POWER II/RJE (GH20-0761). This manual is available in microfiche only.
- GYB0-0538  
CALL-OS VERSION 2 EXECUTIVE & UTILITY LISTINGS  
PROGRAM NUMBER 360A-CX-42X  
This microfiche publication contains the executive and utility listings for 360A-CX-42X, CALL-OS.
- GYB0-0540  
CALL/360-OS (VERSION 1) BASIC ASSEMBLY LISTINGS  
PROGRAM NUMBER 360A-CX-42X (FE#030025)  
This microfiche manual contains the source listings for the BASIC compiler program of CALL/360-OS. Only the microfiche edition is available.
- GYB0-0541  
CALL/360-OS (VERSION 1) FORTRAN ASSEMBLY LISTINGS  
PROGRAM NUMBER 360A-CX-42X (FE#030025)  
This microfiche manual contains the source listings for the FORTRAN compiler program of CALL/360-OS. Only the microfiche edition is available.
- GYB0-0542  
CALL/360-OS (VERSION 1) PL/I ASSEMBLY LISTINGS  
PROGRAM NUMBER 360A-CX-42X (FE#030025)  
This microfiche manual contains the source listings for the PL/I compiler of CALL/360-OS. Only the microfiche edition is available.
- GYB0-0592  
CP-67 VERSION 3 LISTINGS  
PROGRAM NUMBER 360D-05.2.005  
This manual contains the Version 3, CP-67 Assembly Listings.
- GYB0-0593  
CP-67 VERSION 3 LISTINGS  
PROGRAM NUMBER 360D-05.2.005  
This manual contains the Version 3 CMS Assembly Listings.
- GYB0-0598  
COMPATIBILITY OPERATING SYSTEM FOR EMULATION OF IBM 1410/7010 DATA PROCESSING SYSTEMS OPERATING ON IBM SYSTEM/360 MODEL 50 (COS/50) (360D-11.1.025) LISTINGS  
This Manual contains the listings of the Compatibility Operating System (COS/50). COS/50 is used with System/360 Compatibility Feature No. 4478, modified by RPQ F23666, to execute IBM 1410/7010 programs on an IBM System/360 Model 50. COS/50 operates as a problem program under the IBM System/360 Operating System.
- LYB0-0617  
PROJECT MANAGEMENT SYSTEM IV (PMS IV) COST PROCESSOR ASSEMBLY LISTINGS  
PROGRAM NUMBER 5734-XP4, FEATURE CODE 8076  
This Microfiche Publication contains the assembly listings for the Cost Processor Program of PMS IV.
- LYB0-0618  
PROJECT MANAGEMENT SYSTEM IV (PMS IV) NETWORK PROCESSOR ASSEMBLY LISTINGS  
PROGRAM NUMBER 5734-XP4, FEATURE CODE 7406  
This microfiche publication contains the assembly listings for the Network Processor Program of PMS IV.
- LYB0-0619  
PROJECT MANAGEMENT SYSTEM IV (PMS IV) RESOURCE ALLOCATION PROCESSOR ASSEMBLY LISTINGS  
PROGRAM NUMBER 5734-XP4, FEATURE CODE 8079  
Microfiche Publication contains the Assembly Listings for the Resource Allocation Processor Program of PMS IV.
- LYB0-0620  
PROJECT MANAGEMENT SYSTEM IV (PMS IV) REPORT PROCESSOR ASSEMBLY LISTINGS  
PROGRAM NUMBER 5734-XP4, FEATURE CODE 8070  
This microfiche publication contains the assembly listings for the Report Processor Program of PMS IV.

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- LYB0-0625  
 APL/360-OS ASSEMBLY LISTINGS, PROGRAM NUMBER 5734-XM6,  
 FEATURE CODE 8092, FE SERVICE NUMBER 200156  
 This set of microfiche cards contains the assembly listings  
 of the APL/360-OS Program.
- LYB0-0626  
 APL/360 - DOS ASSEMBLY LISTINGS,  
 PROGRAM NUMBER 5736-XM6, FEATURE CODE 8065,  
 FE SERVICE NUMBER 200157  
 This set of microfiche cards contains the assembly listings  
 of the APL/360 - DOS Program.
- LYB0-0631  
 INFORMATION MANAGEMENT SYSTEM/360 VERSION 2, VOLUME 3,  
 DATA BASE LISTINGS, MICROFICHE  
 PROGRAM NUMBER 5734-XX6, FEATURE CODE 8082  
 This Microfiche publication contains the Data Base Assembly  
 Listings of IMS/360.
- LYB0-0632  
 INFORMATION MANAGEMENT SYSTEM/360, VERSION 2, VOLUME 4,  
 DATA COMMUNICATION LISTINGS, MICROFICHE  
 PROGRAM NUMBER 5734-XX6, FEATURE CODE 8083  
 This microfiche publication contains the Data Communication  
 Assembly Listings of IMS/360.
- LYB0-0643  
 MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) MICROFICHE  
 ASSEMBLY LISTINGS - PROGRAM NUMBER 5734-XM4  
 FE SERVICE NUMBER 200080  
 This microfiche publication contains the MPSX Assembly  
 Listings.
- LYB0-0644  
 MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX),  
 MIXED INTEGER PROGRAMMING (MIP), PROGRAM NUMBER 5734-XM4,  
 ASSEMBLY LISTING MICROFICHE  
 This Microfiche Publication contains the MPSX (MIP) Assembly  
 Listings.
- LYB0-0720  
 COURSEWRITER III, DOS VERSION 3 LISTINGS - MICROFICHE  
 PROGRAM NUMBER 5736-E11  
 No abstract available.
- LYB0-0721  
 COURSEWRITER III, DOS VERSION 3 FLOWCHARTS  
 MICROFICHE - PROGRAM NUMBER 5736-E11  
 No abstract available.
- LYB0-0724  
 CUSTOMER INFORMATION CONTROL SYSTEM/DISK OPERATING SYSTEM  
 ENTRY (CICS-DOS E) LISTING, PROGRAM NUMBER 5736-XX6  
 No abstract available.
- LYB0-0735  
 CUSTOMER INFORMATION CONTROL SYSTEM/DISK OPERATING SYSTEM  
 STANDARD (CICS/DOSS) LISTINGS - PROGRAM NUMBER 5736-XX7  
 This document contains Type I OS program listings and DOS/OS  
 PTF listings.
- LYB0-0781  
 CUSTOMER INFORMATION CONTROL SYSTEM/OPERATING SYSTEM  
 STANDARD (CICS/OS-STANDARD) VERSION 2 PROGRAM LISTINGS  
 MICROFICHE - PROGRAM NUMBER 5734-XX7  
 This microfiche publication contains the assembly listings  
 for Version 2 of the CICS/OS - Standard Program.
- LYB0-0784  
 COURSEWRITER III, VERSION 3 OS FLOWCHARTS - MICROFICHE  
 PROGRAM NUMBER 5734-E13  
 No abstract available.
- LYB0-0785  
 COURSEWRITER III, VERSION 3 OS LISTINGS - MICROFICHE  
 PROGRAM NUMBER 5734-E13  
 This document contains Type I OS program listings and DOS/OS  
 PTF listings.
- GYB0-0789  
 CONTROL PROGRAM-67/CAMBRIDGE MONITOR SYSTEM (CP-67/CMX)  
 VERSION 3.1 (COMPONENT RELEASE 1) 3420 MAGNETIC TAPE  
 UNITS AND DUAL DENSITY SUPPORT - LISTINGS (MICROFICHE)  
 PROGRAM NUMBER 3600-05.2.005  
 This microfiche publication contains the version 3.1
- (CP-67/CNS) 3420 Magnetic Tape Units and Dual Support  
 Listings.
- LYB1-0450  
 DISK OPERATING SYSTEM/360 RPG II PROGRAM LISTING  
 PROGRAM NUMBER 5736-RG1  
 This document contains Type I OS program listings and DOS/OS  
 PTF listings.
- LYC7-0991 \*N  
 PROGRAM LISTINGS DOS SORT/MERGE PROGRAM PRODUCT - 5743-SM1  
 The microfiche cards contain program listings of all the  
 modules of DOS Sort/Merge, 5734-SM1. The program itself  
 includes all functions, facilities and options of the 5736-  
 SM1 Program Product and The Type 1 360N-SM-483 Sort/Merge  
 program such as ASCII support and support of the COBOL Sort  
 Verb besides the following: (a) support of the 3330 DASD and  
 the 3400-series tape devices for input, output and work data  
 sets, (b) reduction in main storage requirements from 22K to  
 10K when sorting on 2314/2319 DASD. Allow sorting in 10K  
 for all DASD and DASD supported (c). Increased security  
 through an option to erase work data sets (except 2400-  
 series tape devices (d) a facility to specify and programmer  
 logical unit number for input, output, and work data sets.
- LYC7-1317  
 IBM DISK OPERATING SYSTEM REPORT PROGRAM GENERATOR II  
 AUTO REPORT FEATURE - PROGRAM LISTINGS - PROGRAM NUMBER  
 5736-RG1  
 Microfiche listings of the DOS RPG II auto report feature  
 (5736-RG1).
- LYC7-1700  
 DOS/360 ASCII MAGNETIC TAPE UTILITIES PROGRAM LISTINGS  
 PROGRAM NUMBER 5736-UT2  
 This microfiche contains the source listings of the modules  
 that make up the DOS/360 ASCII Magnetic Tape Utilities.
- LYC7-2300  
 IBM SYSTEM 360 OPERATING SYSTEM: TSO  
 DATA UTILITIES: COPY, FORMAT, LIST, MERGE (LISTING)  
 PROGRAM NUMBER 5734-UT1  
 No abstract available.
- LYC7-2301  
 SYSTEM/360 OPERATING SYSTEM ASCII UTILITIES ASSEMBLY LISTING  
 MICROFICHE - PROGRAM PRODUCT - PROGRAM NUMBER 5734-UT2  
 No abstract available.
- LYC7-2500  
 SYSTEM/360 OPERATING SYSTEM PL/I CHECKOUT COMPILER  
 PROGRAM LISTING - PROGRAM NUMBER 5734-PL2  
 No abstract available.
- LYC7-2501  
 DISK OPERATING SYSTEM/360  
 PL/I RESIDENT LIBRARY - ASSEMBLY LISTING MICROFICHE  
 PROGRAM NUMBER 5736-LM4  
 Microfiche of Assembly Listings.
- LYC7-2502  
 DISK OPERATING SYSTEM/360 PL/I TRANSIENT LIBRARY  
 ASSEMBLY LISTING MICROFICHE - PROGRAM NUMBER 5736-LM5  
 Microfiche of Assembly Listings.
- LYC7-2503  
 DISK OPERATING SYSTEM/360 PL/I OPTIMIZING COMPILER  
 ASSEMBLY LISTING MICROFICHE - PROGRAM NUMBER 5736-PL1  
 Microfiche of Assembly Listings.
- LYC7-2504  
 SYSTEM/360 OPERATING SYSTEM PL/I RESIDENT LIBRARY  
 MICROFICHE - PROGRAM NUMBER 5734-LM4  
 No abstract available.
- LYC7-2505  
 SYSTEM/360 OPERATING SYSTEM TRANSIENT LIBRARY - MICROFICHE  
 PROGRAM NUMBER 5734-LM5  
 No abstract available.
- LYC7-2506  
 SYSTEM/360 OPERATING SYSTEM PL/I OPTIMIZING COMPILER  
 MICROFICHE LISTINGS - PROGRAM NUMBER 5734-PL1  
 No abstract available.

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- LYC7-5003  
 IBM OPERATING SYSTEM 360 DOS ITF  
 PROGRAM NUMBERS 5736-RC1 5737-RC1  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- LYC7-5005  
 IBM OPERATING SYSTEM 360 DOS ITF  
 PROGRAM NUMBERS 5736-RC1 5737-RC1  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- LYC7-5006  
 IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL  
 FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1,  
 5734-RC3  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- LYC7-5007  
 IBM OPERATING SYSTEM/360 ITF  
 MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- LYC7-5008  
 IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL  
 FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1,  
 5734-RC3  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- LYC7-5009  
 IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL  
 FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1,  
 5734-RC3  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- LYC7-5010  
 IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL  
 FACILITY MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1,  
 5734-RC3  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- LYC7-5011  
 IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL  
 FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1,  
 5734-RC3  
 Contains Type I OS Program Listings and DOS/OS PTF listing.
- LYC7-5012  
 SYSTEM/360 DISK OPERATING SYSTEM FORTRAN F LIBRARY  
 PROGRAM PRODUCT LISTING MICROFICHE  
 ASC II - PROGRAM NUMBER 5736-LM1  
 This document contains Type I OS program listings and DOS/OS  
 PTF listings.
- LYC7-5013  
 DOS ITF RELEASE II - PL/I ASSEMBLY LISTINGS - MICROFICHE  
 This microfiche contains the assembly listings of the  
 modules that make up the DOS ITF Release II, PL/I, program  
 product.
- LYC7-5014  
 DOS ITF RELEASE II - SHARED ASSEMBLY LISTINGS - MICROFICHE  
 This microfiche contains the assembly listings of the  
 modules that make up the DOS ITF Release II, SHARED, program  
 product.
- LYC7-5015  
 DOS ITF RELEASE II - BASIC ASSEMBLY LISTINGS - MICROFICHE  
 This microfiche contains the assembly listings of the  
 modules that make up the DOS ITF Release II, BASIC, program  
 product.
- LYC7-5016  
 IBM SYSTEM OPERATING SYSTEM  
 INTERACTIVE TERMINAL FACILITY - MICROFICHE LISTINGS  
 PROGRAM NUMBER 5734-RC1  
 Microfiche of program product 5734-RC1 assembly listings.
- LYC7-5017  
 OPERATING SYSTEM/360 INTERACTIVE TERMINAL FACILITY RELEASE 2  
 SHARED MODULES, MICROFICHE LISTINGS, PROGRAMS 5734-RC1, RC3  
 Assembly listings on microfiche of Program Products 5734-  
 RC1 and 5734-RC3, OS ITF Release 2.
- LYC7-5018  
 SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY -  
 BASIC MODULES - MICROFICHE LISTINGS - PROGRAM NUMBER  
 5734-RC3  
 Assembly listings on microfiche of Program Products 5734-  
 RC1 and 5734-RC3, OS ITF Release 2.
- LYC7-5019  
 SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H EXTENDED)  
 SOURCE LISTINGS - PROGRAM NUMBER 5734-F03  
 This microfiche set contains source listings for FORTRAN IV  
 on program number 5734-F03 for OS/360.
- LYC7-5020  
 SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY (MODII)  
 LISTINGS - PROGRAM NUMBER 5734-LM3  
 This microfiche set contains source listings for  
 FORTRAN IV on Program Number 5734-LM3 for  
 System/360 OS.
- LYC7-5021  
 SYSTEM/360 OPERATING SYSTEM FORTRAN IV (G1) COMPILER  
 PROGRAM PRODUCT LISTING MICROFICHE  
 PROGRAM NUMBER 5734-F02  
 No abstract available.
- LYC7-5022  
 SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY (MOD I)  
 PROGRAM PRODUCT MICROFICHE - PROGRAM NUMBER 5734-LM1  
 No abstract available.
- LYC7-5023  
 SYSTEM/360 OPERATING SYSTEM AMERICAN NATIONAL STANDARD  
 (ANS) COBOL VERSION 3 LISTINGS - PROGRAM NUMBER 5734-CB1  
 This microfiche set contains source listings for ANS  
 COBOL Version 3 on Program Number 5734-CB1 for  
 System/360 OS.
- LYC7-5030  
 SYSTEM/360 DISK OPERATING SYSTEM ANS COBOL COMPILER  
 VERSION 3 PROGRAM LISTING MICROFICHE  
 PROGRAM NUMBER 5736-CB2  
 No abstract available.
- LYC7-5031  
 SYSTEM/360 DISK OPERATING SYSTEM ANS COBOL LIBRARY VERSION  
 3 PROGRAM PRODUCT LISTING MICROFICHE  
 PROGRAM NUMBER 5736-LM2  
 No abstract available.
- LYC7-5032  
 SYSTEM/360 TIME SHARING OPTION FORTRAN PROMPTER VERSION 7  
 PROGRAM NUMBER 5734-CP3  
 No abstract available.
- LYC7-5033  
 SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION INTERACTIVE  
 TERMINAL FACILITY (PL/I ONLY)  
 PROGRAM PRODUCT LISTING MICROFICHE  
 PROGRAM NUMBER 5734-RC2  
 No abstract available.
- LYC7-5034  
 SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION  
 INTERACTIVE TERMINAL FACILITY (BASIC ONLY)  
 PROGRAM PRODUCT LISTING MICROFICHE - PROGRAM NUMBER 5734-RC4  
 No abstract available.
- LYC7-5035  
 SYSTEM/360 OPERATING SYSTEM TIME SHARING  
 OPTION INTERACTIVE TERMINAL FACILITY (SHARED)  
 PROGRAM PRODUCT LISTING MICROFICHE  
 PROGRAM NUMBERS 5734-RC2, 5734-RC4  
 No abstract available.
- LYC7-5036  
 SYSTEM/360 OPERATING SYSTEM FORTRAN IV CODE AND GO  
 PROGRAM NUMBER 5734-F01  
 No abstract available.
- LYC7-5037  
 SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION  
 ASSEMBLER PROMPTER PROGRAM PRODUCT MICROFICHE LISTING  
 PROGRAM NUMBER 5734-CP2  
 No abstract available.

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- LYC7-5038  
SYSTEM/360 OPERATING SYSTEM FULL ANS COBOL COMPILER  
VERSION 3 LISTINGS - PROGRAM NUMBER 5734-CB1  
No abstract available.
- LYC7-5039  
SYSTEM/360 OPERATING SYSTEM FULL COBOL COMPILER  
VERSION 3/TIME SHARING OPTION COBOL PROMPTER  
PROGRAM NUMBER 5734-CB3  
No abstract available.
- LYC7-5040  
IBM SYSTEM/360 OPERATING SYSTEM - TIME SHARING OPTION  
COBOL PROMPTER - PROGRAM NUMBERS 5734-CP1, 5734-CB3  
No abstract available.
- LYC7-5041  
SYSTEM/360 DISK OPERATING SYSTEM SUBSET ANS COBOL COMPILER  
AND LIBRARY - MICROFICHE - PROGRAM PRODUCT 5734-CB1  
No abstract available.  
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- LYC7-5042  
SYSTEM/360 OPERATING SYSTEM FORTRAN H EXTENDED PLUS  
MICROFICHE - PROGRAM NUMBER 5799-AAW  
No abstract available.
- LYC7-5044  
DOS FORTRAN IV LIBRARY OPTION I - MICROFICHE - PROGRAM  
NUMBER 5746-LM3 \*N  
One microfiche listing of this licensed program is available  
from Mechanicsburg to each licensee under the licensing  
agreement. This listing is also available to IBMers on a  
need-to-know basis.
- LY12-5008  
IBM SYSTEM/360 AND SYSTEM/370. STORAGE AND INFORMATION \*N  
RETRIEVAL SYSTEM (STAIRS). PROGRAM LOGIC MANUAL VOL. I  
NARRATIVES - PROGRAM PRODUCT 5734-XR3  
The Storage and Information Retrieval System (STAIRS) is a  
terminal-oriented system that offers the user a variety of  
resources for data base creation and maintenance, and  
especially for data-base searching and document output.  
The purpose of this manual is to provide the user with  
thorough and detailed information on the logic employed, and  
to give him a tool for modifications and extensions of the  
system. This volume of the manual contains detailed  
descriptions of the STAIRS modules and the system macros.  
The associated flowcharts are contained in volume II, Form  
LY12-5013.  
The reader of this manual should be familiar with data  
processing, the IBM System/360 or System/370, and the IBM  
Customer Information Control System.
- LY19-0007  
IBM SYSTEM/360 RESOURCE ALLOCATION (REAL/360) FOR PROJECT  
CONTROL SYSTEM/360 LISTINGS MANUAL (PROGRAM NO. 5736-XP2,  
FEATURE CODE 8017)  
This manual contains compilations/listings for REAL/360.
- LY19-1004  
SYSTEM/360 AND SYSTEM/370 DECISION TABLE TRANSLATOR  
(DETAILED FOR COBOL AND PL/I. SYSTEM MANUAL  
PROGRAM NUMBER 5734-XR2  
The Decision Table Translator program accepts decision  
tables written in a prescribed format and translates the  
tables into a PL/I or COBOL program.  
This manual provides detailed information on the  
programming logic and includes the flowchart narrative, the  
programmed switch listing, and the storage allocation. The  
source program cards and flowcharts are recorded on the  
optional tape. Complete instructions to print or punch out  
this material are provided in the Operations Manual.
- LY19-2001  
IBM VEHICLE SCHEDULING PROGRAM -- EXTENDED (OS AND DOS)  
PROGRAM LOGIC MANUAL, VOLUME I, NARRATIVE  
PROGRAM NUMBERS 5734-XM5 (OS), 5736-XM3 (DOS)  
The Program Logic Manual of the IBM Vehicle Scheduling  
Program -- Extended provides detailed information to  
assist the user in obtaining a more thorough knowledge  
of the program logic. The manual consists of three parts:  
Vol. I Narrative, contained in the present manual,  
Form LY19-2001-0,  
Vol. II Program Flowcharts, Form LY19-2006-0,  
Vol. III Program Listings, available on microfiche,  
Form LYA9-2007-0 (OS) and LYA9-2008-0 (DOS).
- LY19-2006  
IBM VEHICLE SCHEDULING PROGRAM -- EXTENDED (OS AND DOS)  
PROGRAM LOGIC MANUAL, VOLUME II, FLOWCHARTS  
PROGRAM NUMBERS 5734-XM5 (OS), 5736-XM3 (DOS)  
The flowcharts in this manual correspond to the program  
listings in Form LYA9-2007-0 (OS) and LYA9-2008-0 (DOS),  
and are referenced in those manuals.
- LY19-7000  
CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) LOGIC  
MANUAL - PROGRAM NUMBER 5734-XS9, FEATURE NUMBER 8143  
This publication describes the internal logic of the  
Continuous System Modeling Program III (CSMP III) system.  
The CSMP III system is a program that provides an  
application-oriented input language for solving a system of  
ordinary differential equations. Data input and output and  
execution control are facilitated by means of application-  
oriented control statements.  
This logic manual is intended for use by persons  
involved in program maintenance or programmers who are  
altering the program design, table sizes, or adding user  
functional elements to the system. Its primary purpose is  
to serve as a guide to the program listings with which it is  
to be used.
- LY19-7001  
CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) GRAPHIC  
FEATURE LOGIC MANUAL - PROGRAM NUMBER 5734-XS9  
FEATURE NUMBER 8144  
This publication describes the internal logic of the  
Continuous System Modeling Program III (CSMP III) Graphic  
Feature. The Graphic Feature extends the simulation  
capability of the Continuous System Modeling Program III,  
via the IBM 2250 Display Unit, to an interactive environment  
especially conducive to the experimental process. In  
combination, they are referred to in this manual as Graphic  
CSMP III to convey this interactive capability.  
This logic manual is intended for use by persons  
involved in program maintenance or programmers who are  
altering the program design, internal table sizes, or adding  
new functional elements to the system. Its primary purpose  
is to serve as a guide to the program listings with which it  
is to be used.
- GY20-0042  
SYSTEM/360 DATA CONVERSION UTILITY III, VERSION 2 -  
SYSTEM MANUAL PROGRAM NUMBER 360A-SE-26X  
This manual provides detailed information to help the user  
gain a more thorough knowledge of the programming logic  
employed in the program macros. For each macro, it presents  
a listing and narrative. (248 pages)
- GY20-0062  
SYSTEM/360 FLOWCHART SYSTEM MANUAL  
PROGRAM NUMBER 360A-SE-22X  
The IBM System/360 Flowchart program is a System/360 program  
designed to produce flowcharts. This documentation aid  
operates under DOS/360 and is intended to minimize the  
planning and effort required to produce and maintain  
documentation. It gives the user ability to:  
1. Produce clear, standardized, easily reproduced  
computer-generated flowcharts.  
2. Keep flowcharts continually up to date.  
3. Standardize flowcharting techniques.  
This publication is used in conjunction with the System/360  
Flowchart optional tape, which contains the source language  
input, the assembly listings, and the program logic  
flowcharts. The optional tape is available from the IBM  
Program Information Department at Hawthorne, New York.  
One 2400-foot reel of nine-track tape is required.  
This publication contains the narrative for the  
flowcharts, switch and register usage, miscellaneous  
programming notes, and the internal record formats used  
by the program.  
The User's Manual and the Operator's Manual are  
prerequisites to reading and using this publication.
- GY20-0065  
MATHEMATICAL PROGRAMMING SYSTEM/360 VERSION 2 SYSTEM MANUAL  
PROGRAM NUMBER 360A-CG-14X  
This manual provides detailed information to help the user  
understand the implementation of MPS/360. It is designed  
to be used with the program listings and flowcharts of  
MPS/360.
- GY20-0067  
SYSTEM/360 DATA CONVERSION UTILITIES II, VERSION 2  
(SEQUENTIAL, DIRECT ACCESS) SYSTEM MANUAL  
PROGRAM NUMBER 360A-SF-20X  
This manual provides detailed information to help the user  
gain a more thorough knowledge of the programming logic  
employed in the program modules, subroutines, and macros.  
The manual presents, for each module and subroutine,

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flowcharts, flowchart narrative, and switch and register listings. For each macro, a listing and macro narrative are provided.

GY20-0071  
SYSTEM/360 ONLINE TELLER PROGRAM WITH BACKGROUND PROCESSING CAPABILITY SYSTEM'S MANUAL, PROGRAM NUMBER 360A-PB-16X  
 This manual contains detailed flowcharts for the online programs and the file preparation programs. Program narratives and descriptions of switches are given in the programmer's manual and are correlated to the flowcharts by cross-references indexes. Restricted distribution.

GY20-0075  
GENERAL PURPOSE SIMULATION SYSTEM/360 SYSTEM MANUAL PROGRAM NUMBERS 360A-CS-17X, 360A-CS-19X  
 This publication contains a description of the internal structure and basic operation of the GPSS/360 program. All eleven modules which make up the GPSS/360 program are discussed in general and, where appropriate, the operation of all routines within a given module is explained in detail.  
 In general, the material presented throughout this manual is applicable to both the OS and DOS version of the GPSS/360 program. Specific differences are listed and described in Appendix D.  
 The information contained in this manual should give the user a thorough understanding of the structure and operation of the GPSS/360 program so that HELP block routines or other modifications may be more easily implemented.

GY20-0080  
APT S/360 SYSTEMS MANUAL, PROGRAM NUMBER 360A-CN-10X  
 The APT PROCESSOR will be implemented using the FORTRAN IV H Language. The Assembler Language will be used when needed for interfacing with OS/360.  
 The System/360 configurations for APT must include -- Model H.

GY20-0083  
PROJECT MANAGEMENT SYSTEM/360 VERSION 2 NETWORK PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 360A-CP-04X  
 This manual presents a detailed description of subroutines and internal data formats of PMS/360 Network Processor. In conjunction with the program listings and flowcharts, it provides the user with a complete description of how this processor is implemented.

GY20-0084  
PROJECT MANAGEMENT SYSTEM/360 VERSION 2 COST PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 360A-CP-04X  
 This manual presents a detailed description of subroutines and internal data formats of PMS/360 Cost Processor. In conjunction with the program listings and flowcharts, it provides the user with a complete description of how this processor is implemented.

GY20-0085  
PROJECT MANAGEMENT SYSTEM VERSION 2, REPORT PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 360A-CP-04X  
 This manual presents a detailed description of subroutines and internal data formats of PMS/360 Report Processor. In conjunction with the program listings and flowcharts, it provides the user with a complete description of how this processor is implemented.

GY20-0092  
SYSTEM/360 SCIENTIFIC SUBROUTINE PACKAGE VERSION 3 SYSTEM MANUAL PROGRAM NUMBER 360A-CN-038  
 This manual provides flowchart information on the logic used in each subroutine of the System/360 Scientific Subroutine Package. All subroutine descriptions and listings are contained in the User's Manual.

GY20-0096  
SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR DOS/360 SYSTEM MANUAL PROGRAM NUMBER 360A-SE-32X  
 This publication describes the architecture and logic of the Synchronous Transmit-Receive Access Method for DOS/360. The manual describes the process for generating STR capability into a DOS system, loading the access method and logic. Included are:  
 SYSGEN and STR loading  
 Architecture  
 Macro Expansions  
 Routine Logic  
 STR Error Recovery

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Control Block  
 Prerequisites are:  
 1. A basic knowledge of System/360 machine concepts.  
 2. A basic knowledge of DOS/360.  
 3. A knowledge of principles of STR transmission.  
 4. Understanding of the Synchronous Transmit-Receive Access Method User's Manual.

GY20-0097  
SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR OS/360 SYSTEM MANUAL PROGRAM NUMBER 360A-SE-33X  
 This publication describes the architecture and logic of the Synchronous Transmit-Receive Access Method for OS/360. The manual describes the process for generating STR capability into an OS system, loading the access method, and logic. Included are:  
 SYSGEN and STR loading  
 Architecture  
 Macro Expansions  
 Routine Logic  
 STR Error Recovery  
 Control Block  
 Prerequisites are:  
 1. A basic knowledge of System/360 machine concepts.  
 2. A basic knowledge of OS/360.  
 3. A knowledge of principles of STR transmission.  
 4. Understanding of the Synchronous Transmit-Receive Access Method User's Manual.

GY20-0099  
SYSTEM/360 BILL OF MATERIAL PROCESSOR VERSION 2 SYSTEM MANUAL PROGRAM NUMBER 360A-ME-06X  
 This manual provides detailed information to assist the user in gaining a more thorough knowledge of the programming logic employed in the application.  
 It contains detailed reference material for the file organization, maintenance, and reorganization program modules.

GY20-0101  
SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM (RAX) VERSION 3 SYSTEM MANUAL PROGRAM NUMBER 360A-CA-17X  
 This publication provides the systems programmer with detailed information about the RAX system. It contains flowcharts and descriptions of the routines making up the system.

GY20-0105  
1400 AUTOCODER TO COBOL CONVERSION AID PROGRAM PROGRAMMER'S MANUAL PROGRAM NUMBER 360A-SE-19X  
 This program is designed to aid in conversion to System/360 COBOL for all 1401, 1410, 1440, 1460 and 7010 users whose current applications are written in Autocoder, by (1) reducing the total effort required in program conversion, (2) freeing manpower of much of the routine reprogramming effort, and (3) eliminating many clerical errors associated with reprogramming.  
 This manual contains a general description of the program, the machine configuration used, and a sample problem.

GY20-0106  
1400 AUTOCODER TO COBOL CONVERSION AID PROGRAM OPERATOR'S MANUAL PROGRAM NUMBER 360A-SE-19A  
 This program is designed to aid in conversion to System/360 COBOL for all 1401, 1410, 1440, 1460 and 7010 users whose current applications are written predominately in Autocoder, by (1) reducing the total effort required in program conversion, (2) freeing manpower of much of the routine reprogramming effort, and (3) eliminating many clerical errors associated with reprogramming.  
 This manual contains the information necessary to run the program. It includes operating instructions, halts and message lists, and storage map.

GY20-0111  
SYSTEM/360 CONTINUOUS SYSTEM MODELING PROGRAM SYSTEM MANUAL PROGRAM NUMBER 360A-CX-16X  
 This is an IBM System/360 program for the simulation of continuous systems. It provides an application-oriented input language that accepts problems expressed in the form of either an analog block diagram or a system of ordinary differential equations. Data input and output are facilitated by means of application-oriented control statements.  
 This manual provides detailed information to help the user gain a thorough knowledge of the program's logic. It contains flowcharts, flowchart narratives, and tables of switches and data used in COMMON. It also includes a section describing the procedures for implementing several program modifications.

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GY20-0112

IBM SYSTEM/360 PRODUCT STRUCTURE RETRIEVAL SYSTEMS MANUAL PROGRAM NUMBER 360A-ME-07X  
The program provides manufacturing organizations with easy-to-modify routines that retrieve records or a series of records which have been organized and maintained by the Bill of Material Processor Program (360-ME-06X).

Six types of retrieval reports are included with this program. They are:

- Single Level Explosion
- Indented Explosion
- Summarized Explosion
- Single Level Implosion
- Indented Implosion
- Summarized Implosion

This program is designed to run under IBM Basic Operating System/360 or IBM Disk Operating System/360.

GY20-0118

AD-APT S/360 SYSTEMS MANUAL PROGRAM NUMBER 360A-CN-09X  
This program is designed to implement computer preparation of input to machine tool controllers for point-to-point operations and contour milling operations with a fixed cutter axis.

The AD-APT/AUTOSPOT Processor provides for the first time a single Numerical Control Processor designed to process both point-to-point and contour milling operations on a small computing system. The processor provides every capability included in S/360 AUTOSPOT (360-CN-09X) plus the contouring capabilities of the AD-APT language at no sacrifice in processing speed. The processor is significantly faster than the 1620 AD-APT Processor.

The processor is written in System/360 Assembly Language and operates under the Disk Operating System.

Minimum System Requirements for AD-APT -- 2030 Model F.

GY20-0119

AUTOSPOT S/360 SYSTEMS MANUAL PROGRAM NUMBER 360A-CN-08X

This program is designed to implement computer preparation of input to machine tool controllers for point-to-point operations and simple milling operations. Significant time savings can be realized when this technique is used in place of tedious manual methods.

The AUTOSPOT Numerical Control Processor is an interpreter for calculating machine tool coordinates required to perform point-to-point and simple milling operations defined in a "part program".

The processor is written in System/360 Assembly Language and operates under the Disk Operating System.

GY20-0124

1400 AUTOCODER TO COBOL CONVERSION AID PROGRAM SYSTEM MANUAL PROGRAM NUMBER 360A-SF-19X

This Conversion Aid Program is designed to ease the transition to System/360 for all 1401, 1410, 1440, 1460, and 7010 users whose current applications are written predominantly in Autocoder and SPS by (1) reducing the effort required in reprogramming, (2) freeing manpower from the reprogramming effort to develop new applications, (3) eliminating many clerical errors associated with reprogramming, and (4) making COBOL language is much easier to modify.

This manual contains information necessary to understand the workings of the program. Each phase is detailed and sufficient information is provided to allow the user to modify the program functions or its operating environment.

GY20-0126

PROJECT CONTROL SYSTEM/360 VERSION 2 SYSTEM MANUAL PROGRAM NUMBER 360A-CP-06X

This manual describes the routines and subroutines that make up the IBM Project Control System/360. It is divided into the seven logical phases of the system and is intended primarily for the programmer who wishes to gain an understanding of the programming design of the PCS/360. It provides the necessary information for maintaining and modifying the system.

GY20-0143

IBM SYSTEM/360 DOCUMENT PROCESSING SYSTEM SYSTEM MANUAL PROGRAM NUMBER 360A-CX-12X

This manual represents the information required to maintain or modify the internal logic of the IBM System/360 Document Processing System. Insofar as possible, all agreements, assumptions, and production aids used by the development programmers are included.

GY20-0153

MEDICAL INFORMATION SYSTEM PROGRAMS (MISP) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 360A-UH-08L

A hospital must have the ability to respond quickly and accurately to the demands placed upon it. The application of electronic information processing can help provide a solution to the recurring problem of improving service with limited resources.

The Medical Information System Programs (MISP) represent an application of information-processing equipment to answer this need. MISP is designed to assist in the installation of a teleprocessing system (hospital information system) linking the many different service areas in a hospital where complete and prompt patient care is a requirement. These areas include the nursing station, admitting, pharmacy, clinical laboratories, X ray, electrodiagnostics, dietary, operating room, central supply, and others.

This manual describes in general the purpose and functions of a hospital information system using MISP.

GY20-0154

MEDICAL INFORMATION SYSTEM PROGRAMS (MISP) PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 360A-UH-08L

This manual contains detailed descriptions of the program in MISP. The data sets and control blocks used by MISP programs are also described.

GY20-0157

MEDICAL INFORMATION SYSTEM PROGRAMS (MISP) OPERATIONS MANUAL PROGRAM NUMBER 360A-UH-08L

The medical information system programs contain general executive modules, utilities, and user interfaces that provide the framework for a teleprocessing system using the Disk Operating System/360.

This manual describes the procedures necessary for initial preparation and generation of the MISP programs, tables and data sets, inclusion of the user application processing programs, initial loading of the user data sets under MISP, operating procedures for the central system and operation of the terminal devices that are part of a teleprocessing system running under MISP. The generation, inclusion in the system and the terminal operations for a sample processing program under MISP are also described.

This manual is distributed with the programs to those who are qualified to receive them.

GY20-0160

SYSTEM/360 VEHICLE SCHEDULING PROGRAM SCHEDULING PRODUCTION AND DISTANCE LISTING SYSTEM MANUAL PROGRAM NUMBER 360A-ST-06X

This manual provides detailed information to help the user gain a more thorough knowledge of the programming logic employed in the Schedule Production and Distance Listing phases of the System/360 Vehicle Scheduling Program.

GY20-0174

SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM DOS (ATS/DOS) SYSTEM MANUAL PROGRAM NUMBER 360A-CX-18X

This manual contains information on the system design, logic flow, and coding of the ATS/360 program. It contains narrative which describes the significant programs which make up the system. Program flowcharts and assembly listings, although logically part of this manual, are not included in it. These are available on tape as described elsewhere.

GY20-0204

PROJECT MANAGEMENT SYSTEM/360 FLOWCHART SYSTEM MANUAL PROGRAM NUMBER 360A-CP-04X

This manual contains the flowcharts for Project Management System/360. It should be used in conjunction with the System Manuals for the Network Processor (GY20-0083), Cost Processor (GY20-0084), and Report Processor (GY20-0085).

GY20-0205

MARVEL/360 SYSTEM MANUAL PROGRAM NUMBER 360A-CO-15X

MARVEL is a language processor for the data preparation, matrix generation, output analysis, and management report writing functions associated with the Mathematical Programming System/360 (360A-CO-14X). MARVEL was designed and implemented to provide powerful functional capabilities in this fast-growing area of mathematical programming. In providing such a comprehensive language and processor capability, trade-offs were made that reduced execution speed.

MARVEL provides maximum customer utility as an input/output system for the development of new linear programming applications. This is an area where extended function is more significant than high performance. In a production environment where emphasis is on execution

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- speed, MARVEL is less suitable.  
This manual gives detailed information concerning the program logic for the purpose of making modifications to or doing maintenance work on the program. It is designed to be used with the program listings of MARVEL/360.
- GY20-0208  
SYSTEM/360 TEXT PROCESSOR - HYPHENATION/360 SYSTEM MANUAL  
PROGRAM NUMBER 360A-DP-07X  
HYPHENATION/360 provides division of words for text processing applications where the addition of word syllables to a line to meet justification requirements is preferable to forcing the line to end in a complete word. This hyphenation capability is provided in the form of a module that can be linked with a user's System/360 text-processing program or the COMPOSITION/360 module of the IBM System/360 Text Processor.  
Through program linkage, HYPHENATION/360 accepts a word from the user's program and determines the division points. The word, with the division points indicated, is returned to the user's program, where the portion to be retained on the line can be selected on the basis of the user's graphic requirements.  
This manual provides detailed information to help the user gain a more thorough knowledge of the programming logic and techniques used in each of the component programs. The information includes program narrative, switch and register listings, storage allocation data, and program modification aids. The manual is intended for use chiefly by systems analysts and programmers who may need to alter the component programs or otherwise engage in program maintenance.
- GY20-0209  
SYSTEM/360 1287 INPUT CONVERSION PROGRAM  
SYSTEM MANUAL PROGRAM NUMBER 360A-DR-07X  
This program consists of a Transaction Specification Compiler and an Operational Processor. The Compiler processes the statements which describe the format and processing logic to be applied to documents scanned by the IBM 1287 Optical Reader. The output of the Compiler is a program module written in Assembly Language.  
The program module is assembled and link-edited with the Operational Processor and existing program modules. The Operational Processor controls the execution of the various program modules and converts the data to a conversion journal, error journal, and correction turnaround documents.  
Provision is made for correction of the error journal and updating the conversion journal.
- GY20-0213  
STUDENT SCHEDULING SYSTEM/360 THE SCHEDULER PROGRAM  
PROGRAM NUMBER 360A-US-07X  
This manual provides detailed information to assist the user in gaining a more thorough knowledge of the programming logic employed in the application. It presents, for each phase, flowcharts, flowchart narrative, a list of switches, an index register list, programming notes, and program listings.
- GY20-0215  
SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS) SYSTEM MANUAL  
PROGRAM NUMBER 360A-UH-11X  
The Shared Hospital Accounting System (SHAS) provides hospital accounting for a multiple-hospital environment. The participating hospitals utilize the application programs of a central System/360 facility. The application programs include accounts receivable, patient billing, general ledger and system executive and monitor routines.  
This manual contains detailed program information useful for program modification, error diagnosis situations, and maintenance performance. The manual contains detailed descriptive information on the logical operation of each program through program flowcharts. Most flowchart narratives are general - more detail has been included for the complicated programs. Labels and symbols, programmed switches, program indicators, register usage, special techniques, program modification notes, and service subprogram usage are defined for each system program.  
A chart indicating storage allocation of core storage required by each program has been included as an appendix.  
Data listings included are examples which might be used by a typical SHAS user. Data shown has been used to load the files and run the sample problem. The data includes label books, function books, hospital profile load data, edit specifications, sample problem data, and control cards.  
This document is written as a reference manual. Before using this manual the reader should be thoroughly familiar with the following manuals: SHARED HOSPITAL ACCOUNTING System Application Description manual (GH20-0302), Shared Hospital Accounting System Program Description manual (GH20-0533), and SHARED HOSPITAL ACCOUNTING SYSTEM OPERATIONS manual (GH20-0534)
- GY20-0227  
SYSTEM/360 APT NUMERICAL CONTROL PROCESSOR  
VERSION 3 SYSTEM MANUAL - FLOWCHARTS  
PROGRAM NUMBER 360A-CN-10X  
This manual consists entirely of flowcharts for the subject program.
- GY20-0230  
SYSTEM/360 WHOLESALE IMPACT PROGRAM LIBRARY SYSTEM MANUAL  
PROGRAM NUMBERS 360A-DW-05X, 360V-DW-06X  
The System Manual provides detailed information to assist the user in gaining a more thorough knowledge of the programming logic employed in the application.  
This manual presents, for each run, general description, flowcharts, flowchart narrative, programming notes, and a switch and register listing. For each operating system with which the IMPACT Program can be run, there is an Input/Output Section listing, Control Systems Macro listing, core storage requirements, and storage maps.
- GY20-0251  
SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS)  
TELEPROCESSING SYSTEM MANUAL  
PROGRAM NUMBER 360A-UH-11X  
The Shared Hospital Accounting System (SHAS) provides hospital accounting for a multiple-hospital environment. The participating hospitals utilize the application programs of a central System/360 facility. The application programs include accounts receivable, patient billing, general ledger and system executive and monitor routines.  
This reference publication is used for additional support of SHAS teleprocessing executive and control programs. The manual contains detailed program information useful for program modification, error diagnosis situations, and maintenance performance. This manual contains detail descriptive information on the logical operation of each program through program flowcharts. The program flowcharts are very detailed; every line of code is depicted. The narratives are general for the most part - more detail has been included for the complicated program segments. Program switches, register usage, and labels and symbols are defined for each system program module.
- GY20-0256  
SYSTEM/360 INVENTORY CONTROL SYSTEM MANUAL  
PROGRAM NUMBER 360A-MF-04X  
System/360 Inventory Control consists of nine programs especially designed for implementing order point inventory control in manufacturing organizations.  
This manual provides detailed information to assist the user in obtaining a more thorough knowledge of the program logic employed in the programs.  
The manual includes program flowcharts and flowchart narratives in addition to information regarding switches, labels, symbols, and register assignment.
- GY20-0261  
SYSTEM/360 MATRIX LANGUAGE (MATLAN)  
SYSTEM MANUAL PROGRAM NUMBER 360A-CN-05X  
This manual provides detailed information about the structure and the implementation of MATLAN. It should be read in connection with the program listings and the flowcharts of the MATLAN subroutines.
- GY20-0263  
SYSTEM/360 DECISION LOGIC TRANSLATOR SYSTEM MANUAL  
PROGRAM NUMBER 360A-CX-32X  
This manual provides detailed information to assist the user in gaining a more thorough knowledge of the programming logic employed in the application. The System Manual is optional information available to the user and includes the flowchart narrative, the programmed switch listing, the storage allocation, etc. Other material consists of the source program, the assembly listing, and the flowcharts, recorded on the optional tape.
- GY20-0267  
SYSTEM/360 AD-APT/AUTOSPOT (OSI) NUMERICAL CONTROL PROCESSOR  
(360A-CN-12A) SYSTEM MANUAL  
This manual provides detailed information to assist the user in gaining a more thorough knowledge of the programming logic employed in the application.
- GY20-0294  
MATHEMATICAL PROGRAMMING SYSTEM/360 REPORT GENERATOR  
(MPSRG) SYSTEM MANUAL PROGRAM NUMBER 360A-CO-22X  
This manual provides detailed information to help the user understand the organization and structure of MPS/360 Report Generator. It is designed to be used with the program listing of MPS/360 Report Generator.

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- GY20-0305  
IBM SYSTEM/360 AND SYSTEM/370 ATTACHED SUPPORT PROCESSOR SYSTEM (ASP) VERSION 2 SYSTEM MANUAL PROGRAM NUMBER 360A-CX-15X  
The Attached Support Processor (ASP) system is an operating system that provides a compatible extension to Operating System/360 (OS/360). Designed primarily for the commercial and scientific customer with a computer job shop environment, ASP provides for increased automation of the computing operation. The ASP system operates as a programmed operator of OS/360, providing an operational interface for controlling the system job stream, and thus optimizing the use of the computer's resources.  
This manual is intended primarily for the use of the system programmer at an installation. It contains a detailed description of each of the programs that constitute the ASP system and flowcharts of the programs (Appendix A).  
The material in this manual has been prepared on the assumption that the programmer is thoroughly familiar with the ASP Application Programmer's Manual (GH20-0322), the ASP System Programmer's Manual (GH20-0323), and the ASP Console Operator's Manual (GH20-0321).
- GY20-0317  
SYSTEM/360 REQUIREMENTS PLANNING SYSTEM MANUAL PROGRAM NUMBER 360A-MF-05X  
The IBM System/360 Requirements Planning programs are used to generate material requirements for finished products, assemblies, subassemblies, parts, and raw materials based upon an input of a forecast and/or orders. System/360 Requirements Planning consists of two programs: Requirements Generation Program and Print Exception Program. Requirements Generation performs the generation of requirements, utilizing time series planning to determine gross requirements, determine net requirements, plan orders, determine offset, and post components gross requirements. Print Exception prints and notices for the exceptions discovered during the requirements generation run.  
This manual includes program flowcharts and flowchart narratives, in addition to information regarding switches, labels, symbols, and register assignment.
- GY20-0318  
SYSTEM/360 TEXT PROCESSOR - COMPOSITION/360 VOLUME I - FLOWCHART NARRATIVES SYSTEM MANUAL PROGRAM NUMBER 360A-DP-08X  
The COMPOSITION/360 component of the IBM System/360 Text Processor consists of control and functional routines which retrieve text from a user-prepared disk-resident file, justify and format text according to instructions supplied with the text, and produce generalized disk output records. The user must provide routines to retrieve this generalized information, convert it into coding acceptable to the specific composition device on which final printing will occur and write it to the appropriate systems output device. If word division capabilities are required, COMPOSITION/360 uses the HYPHENATION/360 component of the System/360 Text Processor (360A-DP-07X).  
The two-volume System Manual provides detailed information to assist the user in acquiring a thorough knowledge of the programming logic and techniques used in each of the COMPOSITION/360 components.  
This manual is intended for use chiefly by systems analysts and programmers who may need to alter or maintain the program. The Program Description Manual and Operations Manual are prerequisites to reading and using this publication.  
Volume I of the System Manual contains storage allocation data, flowchart narratives, switch and register lists, and program modification aids. The COMPOSITION/360 program logic flowcharts are contained in Volume II.
- GY20-0319  
SYSTEM/360 TEXT PROCESSOR -- COMPOSITION/360 VOLUME II -- FLOWCHARTS SYSTEM MANUAL PROGRAM NUMBER 360A-DP-08X  
The COMPOSITION/360 component of the IBM System/360 Text Processor consists of control and functional routines which retrieve text from a user-prepared disk-resident file, justify and format text according to instructions supplied with the text, and produce generalized disk output records. The user must provide routines to retrieve this generalized information, convert it into coding acceptable to the specific composition device on which final printing will occur, and write it to the appropriate systems output device. If word division capabilities are required, COMPOSITION/360 uses the HYPHENATION/360 component of the System/360 Text Processor (360A-DP-07X).  
The two-volume System Manual provides detailed information to assist the user in acquiring a thorough knowledge of the programming logic and techniques used in each of the COMPOSITION/360 components.  
This manual is intended for use chiefly by systems analysts and programmers who may need to alter or maintain
- the program. The Program Description Manual and Operations Manual are prerequisites to reading and using this publication.  
This manual contains the program logic flowcharts for COMPOSITION/360. Storage allocation data, flowchart narratives, switch and register lists, and program modification aids are contained in Volume I.
- GY20-0345  
SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (DOS/OS) VOLUME I - FLOWCHART NARRATIVES SYSTEM MANUAL PROGRAM NUMBERS 360A-CX-26X, 360A-CX-27X  
This manual contains detailed information in the form of flowchart narratives for the DOS/360 PLAN and OS/360 PLAN systems. With this the user should gain a better understanding of the logic of the system.
- GY20-0346  
SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (DOS/OS) VOLUME II - FLOWCHARTS SYSTEM MANUAL PROGRAM NUMBERS 360A-CX-26X, 360A-CX-27X  
This manual contains detailed flowcharts showing the internal logic of the OS and DOS 360 Problem Language Analyzer (PLAN). It is intended to assist systems programmers and field engineers in obtaining a fuller understanding of the logic and programming aspects of the PLAN system.
- GY20-0350  
SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (DOS) VOLUME III - ASSEMBLY LISTINGS SYSTEM MANUAL PROGRAM NUMBER 360A-CX-26X  
This manual provides assembly and compilation listings for the DOS PLAN system.
- GY20-0351  
SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (OS) VOLUME IV - ASSEMBLY LISTINGS SYSTEM MANUAL PROGRAM NUMBER 360A-CX-27X  
This manual provides assembly and compilation listings for OS PLAN system.
- GY20-0353  
MATHEMATICAL PROGRAMMING SYSTEM/360 VERSION 2 FLOWCHART SYSTEM MANUAL PROGRAM NUMBER 360A-CO-14X  
This manual contains the flowcharts for the Mathematical Programming System/360. It should be used in conjunction with the system manual (GY20-0065) and the assembly
- GY20-0357  
SYSTEM/360 APT NUMERICAL CONTROL PROCESSOR VERSION 4 ASSEMBLY LISTINGS SYSTEM MANUAL PROGRAM NUMBER 360A-CN-10X  
This manual contains the listings for the subject program.
- GY20-0364  
SYSTEM/360 PROGRAM FOR OPTICAL SYSTEM DESIGN/II (POSD/II) (OS) SYSTEM MANUAL-ASSEMBLY LISTINGS PROGRAM NUMBER 360A-EO-15X  
This manual contains the compile listings for OS/360 POSD/II. Refer to GY20-0312 for the flowcharts and narratives.
- GY20-0365  
SYSTEM/360 PROGRAM FOR OPTICAL SYSTEM DESIGN/II (POSD/II) (DOS) SYSTEM MANUAL-ASSEMBLY LISTINGS PROGRAM NUMBER 360A-EO-16X  
This manual contains the compile listings for DOS/360 POSD/II. Refer to GY20-0312 for the flowcharts and narratives.
- LY20-0369  
CUSTOMER INFORMATION CONTROL SYSTEM OS-STANDARD (CICS/OS), (5736-U11), SYSTEM MANUAL, FEATURE CODE 8805  
The IBM Customer Information Control System OS-STANDARD (CICS/OS) is designed to assist customers in the installation of an on-line information system. CICS/OS is a modularly designed program to be used as an interface between the user-written application program and IBM System/360 Operating System (OS/360). The facilities of CICS/OS are obtained through the use of the control system macros in a user-written application program. The purpose of this manual is to give the user a thorough understanding of the logic employed in each module.  
This manual contains detailed program flowcharts, flowchart narrative, control area and control table formats and functions, storage requirements, register considerations, special programming techniques and information concerning program modification.

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- GY20-0372  
COURSEWRITER III FOR SYSTEM/360 VERSION 2 SYSTEM PROGRAMMER'S GUIDE PROGRAM NUMBER 360A-UX-01X  
This publication provides detailed information to assist the user in gaining a more thorough knowledge of the programming logic employed in the application. System generation is included together with other related information. Flowcharts and subroutine descriptions are not in this publication (see "Optional Machine Readable Information" in the Application Directory).
- GY20-0394  
PLAN GRAPHICS SUPPORT FOR THE IBM 2250 ON SYSTEM/360 (OS) SYSTEM MANUAL  
PROGRAM NUMBER 360A-CX-34X  
This manual provides detailed information to assist the user in achieving thorough knowledge of the programming logic employed by the system. This information is intended for system programmers for program maintenance and for system analysts to alter system design.  
The manual includes system description, system program module functions, program flowcharts, and their narratives.
- GY20-0405  
LINEAR PROGRAMMING SYSTEM/360 (LPS/360) SYSTEM MANUAL  
PROGRAM NUMBER 360A-CO-18X  
This system manual describes the Linear Programming System/360 for use on the IBM System/360 running under DOS. Chapter 1 gives a general introduction to the manual, Chapters 2-5 provide details on the system structure, Chapters 6-8 describe programming conventions, and Chapters 9-14 give pertinent reference material.
- LY20-0406  
SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE - OS SYSTEM MANUAL  
PROGRAM NUMBER 5736-P71 - FEATURE CODE 8101  
The Array Processing Subroutine Package is a set of subroutines designed to enhance and simplify the use of the IBM 2938 Array Processor and to provide a series of analytical methods for use in digital signal analysis.  
The manual provides detailed information to assist the user in gaining a more thorough knowledge of the programming logic employed in the subroutines. The manual contains flowcharts, flowchart narrative, and program listings.
- LY20-0407  
SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE - PS SYSTEM MANUAL  
PROGRAM NUMBER 5736-P71 FEATURE CODE 8101  
The Array Processing Subroutine Package is a set of subroutines designed to enhance and simplify the use of the IBM 2938 Array Processor and to provide a series of analytical methods for use in digital signal analysis.  
The manual provides detailed information to assist the user in gaining a more thorough knowledge of the programming logic employed in the subroutines. The manual contains flowcharts, flowchart narrative, and program listings.
- LY20-0415  
ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2 POLICY EXHIBIT UPDATE PROGRAM SYSTEM MANUAL  
PROGRAM NUMBER 5736-N11  
This manual provides detailed information to help the user understand program logic. It describes the processing of policy exhibit/valuation extracts that are output from the output analysis run and the updating of the policy exhibit disk file. Appropriate flowcharts, flowchart narratives, input/output formats and descriptions, program modification aids, and considerations in creating the policy exhibit file are included.
- LY20-0416  
ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2 VALUATION UPDATE PROGRAM SYSTEM MANUAL  
PROGRAM NUMBER 5736-N11  
This manual provides detailed information to help the user understand program logic. It describes the processing of the policy exhibit/valuation extracts that are output from the policy exhibit update run and the updating of the valuation summary disk file. Appropriate flowcharts, flowchart narratives, input/output formats and descriptions, and program modification aids are included.
- LY20-0417  
ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2 POLICY MASTER RECORD FILE INVENTORY PROGRAM SYSTEM MANUAL  
(PROGRAM NUMBER: 5736-N11) (FEATURE CODE: 8811)  
This manual provides detailed information to help the user understand program logic. It describes the processing of policy master records that are output from the policy master record merge program. Appropriate flowcharts, flowchart narratives, input/output formats, program modification aids, and tables and descriptions are included.
- LY20-0418  
ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2 FINANCIAL VALUE PROGRAM SYSTEM MANUAL  
(PROGRAM NUMBER: 5736-N11) (FEATURE CODE 8812)  
This manual provides detailed information to help the user understand program logic. It describes the processing of financial value extracts that are output from the policy master record file inventory program, appropriate flowcharts, flowchart narratives, input/output formats and descriptions, and program modification aids.
- LY20-0419  
ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2 VALUATION SUMMARY PROGRAM SYSTEM MANUAL  
(PROGRAM NUMBER 5736-N11) (FEATURE CODE 8813)  
This manual provides detailed information to help the user understand the program logic. It describes the processing of valuation summary extracts that are output from the policy master record file inventory program and the update and printing of the valuation summary file. Appropriate flowcharts, flowchart narratives, input/output formats and descriptions, program modification aids, and considerations in creating the valuation summary file are included.
- LY20-0420  
ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2 POLICY EXHIBIT BALANCE PROGRAM SYSTEM MANUAL  
PROGRAM NUMBER 5736-N11  
This manual provides detailed information to help the user understand program logic. It describes the processing of policy exhibit extracts that are output from the policy master record file inventory program and the updating of the policy exhibit disk file. Appropriate flowcharts, flowchart narratives, input/output formats and descriptions, program modification aids, and considerations in creating the policy exhibit file are included.
- LY20-0421  
ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2 POLICY EXHIBIT AND VALUATION INCLUDE (R) AND CALL (S) ROUTINES SYSTEM MANUAL  
PROGRAM NUMBER 5736-N11  
This manual provides detailed information to help the user understand program logic. It includes a general description of the policy exhibit and valuation include (R) and call (S) routines except those call (S) routines that are file maintenance. Refer to the FILE MAINTENANCE CALL (S) ROUTINE (NARRATIVES) SYSTEM MANUAL and the FILE MAINTENANCE CALL (S) ROUTINES (FLOWCHARTS) SYSTEM MANUAL for a detailed description of the latter routines.
- LY20-0422 \*N  
SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) SYSTEM MANUAL VOLUME I  
PROGRAM NUMBER 5736-CX1 FEATURE CODE 8801  
This three-volume manual outlines and details the internal logic of the System/360 Generalized Information System (Basic) for the benefit of programmers attempting to revise and/or maintain the system. The organization of the manual reflects the system's design structure of interfacing program units. As applicable, the manual includes diagnostic comments to assist in isolating faulty operation, and contains modification aids to assist in making minor changes to the system.
- LY20-0423  
SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) SYSTEM/360 GENERALIZED INFORMATION SYSTEM SYSTEM MANUAL VOLUME II  
PROGRAM NUMBER 5736-CX1 FEATURE CODE 8803  
This three-volume manual outlines and details the internal logic of the System/360 Generalized Information System (Basic) and the System/360 Generalized Information System for the benefit of programmers attempting to revise and/or maintain the system. The organization of the manual reflects the system's design structure of interfacing program units. As applicable, the manual includes diagnostic comments to assist in isolating faulty operation, and contains modification aids to assist in making minor changes to the system.
- LY20-0424  
SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) SYSTEM/360 GENERALIZED INFORMATION SYSTEM SYSTEM MANUAL VOLUME III  
PROGRAM NUMBER 5736-CX1  
This manual outlines and details internal logic for the benefit of programmers attempting to revise and/or maintain

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- the system. The organization of the manual reflects the system's design structure of interfacing program units. As applicable, the manual includes diagnostic comments to assist in isolating faulty operation, and contains modification aids to assist in making minor changes to the system.
- LY20-0425  
SYSTEM/360 GENERALIZED INFORMATION SYSTEM  
SYSTEM MANUAL VOLUME 1  
PROGRAM NUMBER 5736-CX1 FEATURE CODE 8802  
This three-volume manual outlines and details the internal logic of the System/360 Generalized Information System for the benefit of programmers attempting to revise and/or maintain the system. The organization of the manual reflects the system's design structure of interfacing program units. As applicable, the manual includes diagnostic comments to assist in isolating faulty operation, and contains modification aids to assist in making minor changes to the system.
- LY20-0431  
INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360 \*N  
SYSTEM MANUAL VOLUME I - PROGRAM LOGIC  
PROGRAM NUMBER 5736-CX3 FEATURE CODE 8801  
The Information Management System/360 is an Operating System/360 processing designed to facilitate the implementation of medium to large common data bases in a multiapplication environment. This environment is created to accommodate both online message processing and conventional batch processing, either separately or concurrently. The system permits the evolutionary expansion of data processing applications from a batch-only to a teleprocessing environment.  
This manual includes a description of each module comprising the IMS/360 program. It also contains information on macros used, interfaces and module sizes, record and message formats, error codes and handling, and abends. Flowcharts are contained in Volume II. Volume III contains the listings of the IMS/360 programs, furnished as microfiche.
- LY20-0432  
INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360  
SYSTEM MANUAL VOLUME II - FLOWCHARTS  
PROGRAM NUMBER 5736-CX3 FEATURE CODE 8802  
This manual contains flowcharts for the subject program.
- LY20-0455  
GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (GATD)  
SYSTEM MANUAL - VOLUME I  
PROGRAM NUMBER 5734-XX2 FEATURE CODE 8101  
This manual contains the program flowcharts and narratives, core storage requirements, panel listings, and phrase listings for the GATD program.  
The program listings for GATD will be found in Volume 2 of the GATD System Manual (GY20-0465) on microfiche cards.
- LY20-0456  
PROJECT MANAGEMENT SYSTEM/360: VERSION 3,  
RESOURCE ALLOCATION PROCESSOR SYSTEM MANUAL  
PROGRAM NUMBER 5734-XP1 FEATURE CODE 8104  
This manual presents a detailed description of subroutines and internal data formats of PMS/360 Resource Allocation Processor. In conjunction with the program listings and flowcharts, it provides the user with a complete description of how this processor is implemented.
- LY20-0457  
PROJECT MANAGEMENT SYSTEM/360 VERSION 3 NETWORK PROCESSOR  
SYSTEM MANUAL, PROGRAM NUMBER: 5734-XP1  
FEATURE CODE: 8101  
This manual presents a detailed description of subroutines and internal data formats of PMS/360 Network Processor. In conjunction with the program listings and flowcharts, it provides the user with a complete description of how this processor is implemented.
- LY20-0459  
PROJECT MANAGEMENT SYSTEM/360: VERSION 3, COST PROCESSOR -  
SYSTEM MANUAL  
PROGRAM NUMBER 5734-XP1 FEATURE CODE 8102  
This manual presents a detailed description of subroutines and internal data formats of PMS/360 Cost Processor. In conjunction with the program listings and flowcharts, it provides the user with a complete description of how this processor is implemented.
- LY20-0460  
PROJECT MANAGEMENT SYSTEM/360 VERSION 3 FLOWCHART SYSTEM  
MANUAL PROGRAM NUMBER: 5734-XP1 FEATURE CODE: 8105  
This manual contains the flowcharts for Project Management System/360. It should be used in conjunction with the System Manuals for the Network Processor, Cost Processor, Report Processor, and Resource Allocation Processor.
- LY20-0461  
PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS)  
HOMEOWNERS PREMIUM PROCESSING PROGRAM DESCRIPTION  
AND SYSTEM MANUAL  
PROGRAM NUMBER (FEATURE CODE 8001)  
This manual provides a description of the functions and logic of the homeowners portion of the Property and Liability Information System (PALIS). Homeowner logic will rate and/or process new business, renewals and endorsements.  
The contents of this manual include: a description of the homeowners master record and its format; a process executive catalog showing the interrelationship of individual modular programs in the processing of a given insurance function; and a module catalog containing abstracts, format requirements, process executive information, programming notes, communication information, and codes for each individual modular program.
- LY20-0462  
PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS)  
HOMEOWNERS CLAIMS PROCESSING PROGRAM DESCRIPTION AND  
SYSTEM MANUAL  
PROGRAM NUMBER 5736-N21 FEATURE CODE 8002  
The purpose of this manual is to describe the Property and Liability Information System insurance logic programs designed to maintain claim information on the homeowners policies supported by the Multi-Line Insurance Rating Bureau plan.  
The contents of this manual include: a description of the homeowners master record and its format; a process executive catalog showing the interrelationship of individual modular programs in the processing of a given insurance function; and a module catalog containing abstracts, format requirements, process executive information, programming notes, communication information, and codes for each individual modular program.
- LY20-0467  
PROJECT MANAGEMENT SYSTEM/360 VERSION 3: REPORT PROCESSOR \*N  
SYSTEM MANUAL  
PROGRAM NUMBER 5734-XP1 FEATURE CODE 8101  
This is a detailed description of subroutines and internal data formats of PMS/360, Version 3, Report Processor. In conjunction with the program listings and flow charts, it provides the user with a complete description of how this processor is implemented.
- LY20-0473  
RIGID FRAME SELECTION PROGRAM (RFSP) VOLUME 3 - COMPILATION  
LISTINGS SYSTEM MANUAL  
PROGRAM NUMBER 5734-EC1 FEATURE CODE 8501  
This manual provides the OS/360 compilation listings for the Rigid Frame Selection Program. The flowcharts and narratives for this program will be found in the RIGID FRAME SELECTION PROGRAM (RFSP), SYSTEM MANUAL - VOLUME 1 (GY20-0316).
- LY20-0474  
RIGID FRAME SELECTION PROGRAM (RFSP) VOLUME 4 -  
COMPILATION LISTINGS SYSTEM MANUAL  
PROGRAM NUMBER 5736-EC1 FEATURE CODE 8501  
This manual provides the DOS/360 compilation listings for the Rigid Frame Selection Program. The flowcharts and narratives for this program will be found in the RIGID FRAME SELECTION PROGRAM (RFSP), SYSTEM MANUAL - VOLUME 1 (GY20-0316).
- LY20-0475  
GENERAL PURPOSE SIMULATION SYSTEM/360 OS: VERSION 2 -  
SYSTEM MANUAL PROGRAM NUMBER 5734-IS1 FEATURE CODE 8151  
This publication contains a description of the internal structure and basic operation of the GPSS/360 program. All eleven modules which make up the GPSS/360 program are discussed in general and, where appropriate, the operation of all routines within a given module is explained in detail.  
The information contained in this manual should give the user a thorough understanding of the structure and operation of the GPSS/360 program so that modification may be more easily designed and implemented.

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- LY20-0479  
LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM (LEMRAAS)  
SYSTEM MANUAL VOLUME I  
PROGRAM NUMBER 5736-G21 FEATURE CODE 8400  
 No abstract available.
- LY20-0480  
SHAS COMPATIBLE TELEPROCESSING SUPPORT FOR 2780, 2740, AND  
1050 TERMINALS SYSTEM REFERENCE MANUAL  
PROGRAM PRODUCT 5736-H13, FEATURE CODE 8000  
 The IBM SHAS Compatible Teleprocessing Support for 2780,  
 2740, and 1050 Terminals under DOS QTAM extends the device  
 support available under the SHAS (Shared Hospital Accounting  
 Systems) teleprocessing executive to include IBM 2780,  
 IBM 2740, and IBM 1050 Terminals, singly or in combination.  
 Prerequisite programs include SHAS (360A-UH-11X) (at Version  
 2, Modification Level 0 or higher) and DOS QTAM (360N-CQ-  
 470). Prerequisite publications include:  
 SHAS Application Description Manual (H20-0302)  
 SHAS Program Description Manual (H20-0533)  
 SHAS Operations Manual (H20-0534)  
 SHAS Teleprocessing Operations Manual (H20-0550)  
 SHAS Application System Manual (Y20-0215)  
 SHAS Teleprocessing System Manual (Y20-0251)  
 This manual is written for individuals with a thorough  
 understanding of DOS, System/360 Assembler Language, DOS  
 QTAM, and SHAS. It contains operations, program description,  
 and systems material.
- LY20-0483  
GENERAL PURPOSE SIMULATION SYSTEM/360 DOS VERSION 2  
SYSTEM MANUAL  
PROGRAM NUMBER 5736-XS1 FEATURE CODE 8101  
 This publication contains a description of the internal  
 structure and basic operation of the GPSS/360 program.  
 All eleven modules which make up the GPSS/360 program are  
 discussed in general and, where appropriate, the operation  
 of all routines within a given module is explained in  
 detail.  
 The information contained in this manual should give  
 the user a thorough understanding of the structure and  
 operation of the GPSS/360 program so that modifications  
 may be more easily designed and implemented.
- LY20-0489  
SYSTEM/360 TEXT PROCESSOR -- EDIT/360 (DOS)  
SYSTEM MANUAL VOLUME I - FLOWCHART NARRATIVES  
PROGRAM NUMBER 5736-K11  
 The two-volume System Manual provides detailed information  
 to assist the user in acquiring a thorough knowledge of  
 the programming logic and techniques used in each of the  
 EDIT/360 components.  
 This manual is intended for use chiefly by systems  
 analysts and programmers who may need to alter or maintain  
 the program. The Program Description Manual and Operations  
 Manual are prerequisites to reading and using this  
 publication.  
 Volume I of the System Manual contains storage  
 allocation data, flowchart narratives, switch and register  
 lists, and program modification aids. The EDIT/360 program  
 logic flowcharts are contained in Volume II.
- LY20-0490  
SYSTEM/360 TEXT PROCESSOR -- EDIT/360 (DOS)  
SYSTEM MANUAL VOLUME II - FLOWCHARTS PROGRAM NUMBER 5736-K11  
 The two-volume System Manual provides detailed information  
 to assist the user in acquiring a thorough knowledge of  
 the programming logic and techniques used in each of the  
 EDIT/360 components.  
 This manual is intended for use chiefly by systems  
 analysts and programmers who may need to alter or maintain  
 the program. The Program Description Manual and Operations  
 Manual are prerequisites to reading and using this  
 publication.  
 This manual contains the program logic flowcharts for  
 EDIT/360. Storage allocation data, flowcharts for EDIT/360,  
 Storage allocation data, flowchart narratives, switch and  
 register lists, and program modification aids are contained  
 in Volume I.
- LY20-0493  
DATA/360 DOS PRELIMINARY VERSION  
PROGRAM NUMBER 5736-XS2 FEATURE CODE 8018  
 This manual contains detailed descriptions and procedures  
 for system generation and modification. This publication  
 also contains abstract descriptions and functional  
 flowcharts for all key modules. To further assist the  
 system programmer, console operator, and terminal operator,  
 a set of sample problems and running instructions with  
 sample outputs are included.
- LY20-0495  
COURSEWRITER III FOR SYSTEM/360 (OS) VERSION 2  
PROGRAMMER'S GUIDE  
PROGRAM NUMBER 5734-E12 FEATURE CODE 8000  
 This publication provides detailed information to assist  
 the user in gaining a more thorough knowledge of the  
 programming logic used in the application. Flowcharts  
 and subroutine descriptions are not in this publication  
 (see Application Directory).
- LY20-0496  
SYSTEM/360 ORDER ALLOCATION SYSTEM SYSTEM MANUAL  
PROGRAM NUMBER 5736-D41  
 This manual will assist the user in understanding the  
 system and act as an aid in modifying the system components.  
 It consists of the program flowchart and the program source  
 listing for each of the Order Allocation System modules.  
 The flowcharts provide a semidetalled, visual tool that  
 shows the logical sequence of operations performed by the  
 program. Flowchart narratives are provided for the  
 allocation and shipping programs, as these programs are  
 the heart of the Order Allocation System and use the most  
 complex coding techniques.  
 The appendix to this manual contains cross-reference  
 charts. These charts aid in understanding the Order  
 Allocation System and its information flow.
- GY20-0504  
IBM SYSTEM/360 CONVERSATIONAL PROGRAMMING SYSTEM (CPS):  
PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 360D-03.4.016  
 This publication describes the internal logic of the  
 Conversational Programming System (CPS).
- LY20-0509  
IBM SYSTEM/360 OS LEARN ADMINISTRATIVE TERMINAL SYSTEM  
SYSTEM MANUAL PROGRAM NUMBER 5734-X8 FEATURE CODE 8053  
 This manual contains information on the design, logic flow,  
 and coding of the OS LEARN ATS program. It describes the  
 macros and programs that make up the system and includes  
 program flowcharts of the new application programs to be  
 incorporated into the existing Administrative Terminal  
 System.
- LY20-0510  
IBM SYSTEM/360 DOS LEARN ADMINISTRATIVE TERMINAL SYSTEM  
SYSTEM MANUAL PROGRAM NUMBER 5736-X13 FEATURE CODE 8054  
 This manual contains information on the design, logic flow,  
 and coding of the DOS LEARN ATS program. It describes the  
 macros and programs that make up the system and includes  
 program flowcharts of the new application programs to be  
 incorporated into the existing Administrative Terminal  
 System.
- LY20-0528  
OS/360 INVENTORY CONTROL SYSTEM MANUAL  
PROGRAM NUMBER 5736-H52 FEATURE CODE 8011  
 OS/360 Inventory Control consists of seven programs  
 specially designed for implementing order point inventory  
 control in manufacturing organizations.  
 This manual provides detailed information to assist  
 the user in obtaining a more thorough knowledge of the  
 program logic employed in the programs.  
 The manual includes program flowcharts and flowchart  
 narratives, in addition to information regarding switches,  
 labels, symbols, and register assignment.
- GY20-0529 \*N  
CALL/360-OS EXECUTIVE AND UTILITIES SYSTEM MANUAL  
PROGRAM NUMBER 360A-CX-42A  
 This publication describes the internal logic of the  
 executive and utility programs for the CALL/360-OS system.  
 This system is a personal time sharing computing system,  
 which can be run in either an MPT or MVT environment.  
 The executive program controls the work in the partition  
 or region assigned to CALL/360-OS. It contains facilities  
 for interrupt handling, terminal and direct access data  
 management, command processing, and debugging.  
 The utility programs provide facilities for system  
 build, job initialization, data base management, and  
 accounting. These programs are used by programmers  
 responsible for maintaining the system and its data base.  
 Also included in this publication are the microfiche  
 instructions, data formats, and character sets used by  
 CALL/360-OS.
- GY20-0530  
CALL/360 - OS BASIC SYSTEM MANUAL  
PROGRAM NUMBER 360A-CX-42X  
 This manual provides detailed information on the routines  
 which make up the BASIC compiler for CALL/360-OS. These  
 routines are used to compile and execute a BASIC source

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program. This manual can be used to locate specific areas of the program, and it enables the corresponding program listings.

GY28-0531

CALL/360-OS FORTRAN SYSTEM MANUAL PROGRAM NUMBER 360A-CX-42X  
This publication describes the internal logic of the CALL/360-OS FORTRAN Compiler which transforms source statements written in the CALL/360-OS FORTRAN language into object programs for immediate execution. The manual is intended primarily for use by IBM personnel involved in program design and maintenance; it is not required for normal use or operation of the program described.

The systems manual begins with a comprehensive survey of the CALL/360-OS FORTRAN Compiler which defines the compiler and its relationship to the CALL/360-OS time-sharing system. The overall method of compiler operation is then treated, followed by a detailed discussion of the segmentation of the compiler into a translation and code generation phase (Phase I), a linking loader phase (Phase II), and an execution phase (Phase III). For convenience, logical flowcharts of most complex compiler operations are in a separate section. Additional material covering the POP macro programming language, routine directory, lists and tables, intermediate code, SVC and register usage, and diagnostic messages is provided in an appendix.

LY28-0535

SYSTEM/360 CAPACITY PLANNING - INFINITE LOADING SYSTEM MANUAL PROGRAM NUMBER 5736-M11  
FEATURE CODE 8021

System/360 Capacity Planning consists of programs designed to plan the capacity required for a production plan, and to schedule orders based on available production facilities. Its main application area is in job shops where production facilities are used intermittently to perform production or assembly operations on different items.

This manual provides detailed information to assist the user in obtaining a more thorough knowledge of the logic employed in the programs. It contains information on the system design, logic flow, and coding of the programs. It is intended chiefly for system programmers and system engineers.

LY28-0536

SYSTEM/360 CAPACITY PLANNING-FINITE LOADING SYSTEM MANUAL PROGRAM NUMBER 5736-M12 FEATURE CODE 8022

System/360 Capacity Planning consists of programs designed to plan the capacity required for a production plan, and to schedule orders on the basis of available production facilities.

Its main application area is in job shops where production facilities are used intermittently to perform production or assembly operations on different items.

This manual provides detailed information to assist the user in obtaining a more thorough knowledge of the logic employed in the programs. It contains information on the system design, logic flow, and coding of the programs and is intended chiefly for system programmers and system engineers.

LY28-0537

SYSTEM/360 REQUIREMENTS PLANNING INTERFACE SYSTEM MANUAL PROGRAM NUMBER 5736-M13

System/360 Requirements Planning Interface is a program product which, when added to System/360 Requirements Planning (360A-MF-05X), provides the ability to generate connection records. The connection file is required by System/360 Capacity Planning--Finite Loading (5736-M12).

This manual includes flowcharts, flowchart narratives, and listings of the macros that constitute the program product.

The information in this manual is intended for use by system programmers in conjunction with SYSTEM/360 REQUIREMENTS PLANNING, SYSTEM MANUAL (GY28-0317).

LY28-0543

OS/360 REQUIREMENTS PLANNING SYSTEM MANUAL PROGRAM NUMBER 5736-M51

The OS/360 Requirements Planning programs are used to generate material requirements for finished products, assemblies, subassemblies, parts, and raw materials based upon an input of a forecast and/or orders. OS/360

Requirements Planning consists of three components: requirements generation program, print exception program, and chained file management system. The requirements generation program performs the generation of requirements, utilizing time series planning to determine net requirements, plan orders, determine offset, and post component gross requirements. The print exception program prints the notices for the exceptions discovered during the requirements generation run. The chained file management system creates and maintains a centralized manufacturing information system.

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This manual includes program flowcharts and flowchart narratives, in addition to information regarding switches, labels, symbols, and register assignment. The manual is intended to aid systems analysts and programmers install and maintain OS/360 Requirements Planning.

LY28-0546

SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC UTILITY INDUSTRY POWER FLOW SYSTEM MANUAL - VOLUME III

PROGRAM NUMBER 5736-U12 FEATURE CODE 8172

The Power System Planning (PSP) Program Product package is designed specifically for System/360. The package uses disk storage to provide the capability of establishing a master data bank of repeatedly used engineering data that describes an electrical network. The package further provides the convenience of automatic data retrieval from the master data bank whenever a simulation program is to be run. In order to study the steady-state and transient operational characteristics of present and projected interconnected power networks, three digital simulation components are included in the package -- Power Flow, Short Circuit, and Transient Stability.

This manual is designed for use by the system analyst and system programmer. It describes the basic solution technique and its implementation in the Power Flow simulation component. Power Flow files and variables are described. The format of the results file, which may be saved upon completion of a Power Flow simulation, is described. In addition, a description of each procedure in the Power Flow component is given.

LY28-0553

SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR ELECTRIC UTILITY INDUSTRY - SHORT CIRCUIT SYSTEM MANUAL PROGRAM NUMBER 5736-U12

The Power System Planning (PSP) Program Product package is designed specifically for the IBM System/360. The package uses disk storage to establish a master data bank of repeatedly used engineering data that describes an electrical network. The package further provides the convenience of automatic data retrieval from the master data bank whenever a simulation program is to be run. In order to study the steady-state and transient operational characteristics of present and projected interconnected power networks, three digital simulation components are included in the package -- power flow, short circuit, and transient stability.

This manual is designed for use by the system analyst and system programmer. It describes the basic solution technique and its implementation in the short circuit component. Files and variables are described. The format of the results file, which may be saved upon completion of the input phase of a short circuit simulation study, is described. A description of each procedure in the short circuit component is given.

LY28-0554

SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC UTILITY INDUSTRY TRANSIENT STABILITY SYSTEM MANUAL - VOLUME IV PROGRAM NUMBER 5736-U12 FEATURE CODE 8173

The Power System Planning (PSP) Program Product package is designed specifically for the IBM System/360. The package uses disk storage to make it possible to establish a master data bank of repetitively used engineering data that describes an electrical network. The package provides the further convenience of automatic data retrieval from the master data bank whenever a simulation program is to be run. In order to study the steady-state and transient operational characteristics of present and projected interconnected power networks, three digital simulation components are included in the package: power flow, short circuit, and transient stability.

This manual is designed for use by the system analyst and system programmer. It describes the basic solution technique and its implementation in the transient stability simulation component. Files and variables are described. The format of the results file generated during a transient stability simulation study is described. In addition, a description of each procedure in the transient stability component is given.

LY28-0555

SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC UTILITY INDUSTRY ENGINEERING DATA MANAGEMENT SERVICES SYSTEM MANUAL - VOLUME I PROGRAM NUMBER 5736-U12 FEATURE CODE 8174

The Power System Planning (PSP) Program Product package is designed specifically for the IBM System/360. The package uses disk storage to provide the capability of establishing a master data bank of repeatedly used engineering data that describes an electrical network. The package further provides the convenience of automatic data retrieval from the master data bank whenever a

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- simulation program is to be run. In order to study the steady-state and transient operational characteristics of present and projected interconnected power networks, three digital simulation components are included in the package - power flow, short circuit, and transient stability. This manual is designed for use by the system analyst and system programmer. It describes the methods used in validating, and retrieving data from the master data bank maintained by the engineering data management service (EDMS) component. EDMS files and variables are described. In addition, a description of each procedure in the engineering data management service (EDMS) component is given.
- LY20-0559**  
TARIFF PUBLISHING SYSTEM (BOUND TARIFFS) SYSTEM MANUAL  
PROGRAM NUMBER 5736-T21. FEATURE CODE 0003  
This manual provides detailed information to assist system analysts and programmers in gaining a more thorough knowledge of the programming logic employed in this application. Included for each unit process subroutine, general purpose subroutine, and mainline components are the flowchart narrative and the flowcharts.
- LY20-0560**  
TRAFFIC PROFILE ANALYSIS SYSTEM SYSTEM MANUAL  
PROGRAM NUMBER 5736-T22  
This manual provides detailed information to assist the user in gaining a more thorough knowledge of the programming logic employed in the application. Included for each program are the switches and registers used, the flowchart narrative and the flowcharts.
- LY20-0561**  
MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) VERSION 2  
SYSTEM MANUAL - PROGRAM PRODUCT 5736-H11 FEATURE CODE 8500  
This manual contains the general and detailed flowcharts with narratives as necessary for the Medical Information Systems Program. The flowcharts are preceded by diagrams of both the interaction among executive program modules and techniques for construction of the application programs.
- LY20-0565**  
SYSTEM/360 SHOP FLOOR CONTROL 5736-M31 SYSTEM MANUAL  
System/360 Shop Floor Control is a group of programs designed to provide current information about the manufacturing facility and to assist management in effectively controlling production. The programs provide for the release of orders to the manufacturing facility, the creation and maintenance of records pertaining to the orders, retrieval of orders, report capability on the status of the orders, and the preparation and printing of a work list for shop supervisory personnel. This manual includes (1) flowcharts, (2) flowchart narratives, and (3) a list of the program switches used by System/360 Shop Floor Control. The audience for this manual includes customer operating personnel, systems analysts, and programmers. The prerequisite for the use of this manual is a knowledge of System/360 PL/I Language, System/360 Disk Operating System, and the Bill of Material Processor.
- LY20-0566**  
IBM SYSTEM/360 DATA BASE ORGANIZATION AND MAINTENANCE  
PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 5736-XX4  
This manual provides detailed information to assist the user in gaining a more thorough knowledge of the programming logic employed in the application. It contains detailed reference material for the file organization, maintenance, and reorganization program modules. The audience for this manual is the systems programmer. Core storage allocation for each module is dependent upon the options chosen by the user. These allocations may be found in the SYSTEM/360 DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR, PROGRAM DESCRIPTION MANUAL (SH20-0829) in section 3.30 entitled "Core Storage Requirements". Program modification is achieved through the customization of the supplied source code by means of user supplied parameters. Customizing is discussed in the SYSTEM/360 DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR, PROGRAM DESCRIPTION MANUAL in the section 5 entitled "Customizing the Data Base Organization and Maintenance Processor" and the Appendix entitled "Customizing the MAINLINE Module of Creation and Maintenance of the Four Basic Manufacturing Files". Program listings are not included in this manual, as customization and assembly will provide the listings which correctly reflect the parameters chosen.
- GY20-0567**  
CALL/360-OS PL/I SYSTEMS MANUAL VOLUME I  
The CALL/360-OS PL/I compiler (to be used with the CALL/360-OS System on an IBM System/360 MODEL 5) OR HIGHER) is described in the four volumes of this publication. The publication is addressed to system programmers and customer engineers who require a detailed knowledge of the compiler. It contains a general overview of the compiler and detailed information on the compiler and runtime routines and macros that perform required functions. Additional information required to understand CALL/360-OS PL/I compiler operations is provided in several appendices. Volume I contains a general description of the compiler, a section on compiler operations, and a directory to compiler routines.
- GY20-0568**  
CALL/360-OS PL/I SYSTEM MANUAL VOLUME II  
The CALL/360-OS PL/I compiler (to be used with the CALL/360-OS System on an IBM System/360 Model 50 or higher) is described in the four volumes of this publication. The publication is addressed to system programmers and customer engineers who require a detailed knowledge of the compiler. It contains a general overview of the compiler and detailed information on the compiler and runtime routines and macros that perform required functions. Additional information required to understand CALL/360-OS PL/I compiler operations is provided in several appendices. Volume II CONTAINS INFORMATION ON RUNTIME SUPPORT MODULES AND THE FIRST part of a directory to runtime routines.
- GY20-0569**  
CALL/360-OS PL/I SYSTEM MANUAL VOLUME III  
PROGRAM NUMBER 360A-CX-42X  
The CALL/360-OS PL/I compiler (to be used with the CALL/360-OS System on an IBM System/360 Model 50 or higher) is described in the four volumes of this publication. The publication is addressed to system programmers and customer engineers who require a detailed knowledge of the compiler. It contains a general overview of the compiler and detailed information on the compiler and runtime routines and macros that perform required functions. Additional information required to understand CALL/360-OS PL/I compiler operations is provided in several appendices. Volume III contains the remainder of the directory to runtime routines, consisting of the mathematical function package and aggregate manipulation package.
- GY20-0570**  
CALL/360 OS PL/I SYSTEM MANUAL VOLUME 4  
The CALL/360-OS PL/I compiler (to be used with the CALL/360-OS System on an IBM System/360 Model 50 or higher) is described in the four volumes of this publication. The publication is addressed to system programmers and customer engineers who require a detailed knowledge of the compiler. It contains a general overview of the compiler and detailed information on the compiler and runtime routines and macros that perform required functions. Additional information required to understand CALL/360-OS PL/I compiler operations is provided in several appendices. Volume IV contains appendices covering the following subjects:  
Compiler conventions and data layout  
Compiler tables and lists  
Compiler support macros  
Runtime support macros  
Object code storage layout  
Support services for language processors  
CALL/360-OS PL/I Compiler maintenance  
Diagnostic messages  
Maximum size of source program  
Reference listings
- GY20-0575**  
IBM SYSTEM/360 DOS POWER II, SYSTEM MANUAL  
PROGRAM NUMBER 360D-05.2.006  
POWER II (Priority Output Writers, Execution processors, and input Readers) is an automatic SPOOLing processor and priority scheduler for normal batch processing under IBM System/360 Disk Operating System. This manual describes the internal logic of POWER II. It includes descriptive text, flowcharts, detailed breakdown of subroutines and macros, plus additional aids to debugging. This manual is intended for use in maintenance or modification of POWER II.
- GY20-0576** \*N  
IBM SYSTEM/360 DOS POWER II, REMOTE JOB ENTRY, SYSTEM MANUAL  
PROGRAM NUMBER 360D-05.2.006  
POWER II/RJE offers the ability to submit jobs via remote IBM 2700 data transmission terminals for normal batch processing under Disk Operating System. The manual describes the internal logic of Remote Job Entry operating

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- in the POWER II environment. It includes descriptive text, flowcharts, detailed breakdown of subroutines and macros, plus additional aids to debugging. This manual is intended for use in maintenance or modification of POWER II/RJE.
- LY20-0579  
SYSTEM/360 AGRIBUSINESS MANAGEMENT INFORMATION SYSTEM SYSTEM MANUAL, FEATURE CODE 0812 PROGRAM NUMBER 5736-D51  
The IBM Agribusiness Management Information System is a set of program and procedures which make available financial, tax, and management information to the agribusiness Management Information System (AMIS) programs. The reader will be charged with maintenance of the system and should be familiar with IBM System/360 Disk Operating System (System/360 DOS) and with the AMIS programs.
- LY20-0587  
PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) ADDITIONAL FILE FACILITY (2314) SYSTEMS REFERENCE MANUAL PROGRAM NUMBER 5736-N22, FEATURE CODE 8007  
This reference publication describes the functions and logic of the new modules and changes to the PALIS Basic program (360A-IF-10X) that make up the PALIS Additional File Facility (2314) (5736-N22). Changes to the logic, preparation for use, and operation of rateload, file support, transaction edit, file maintenance run, and inquiry are included.  
This manual must be used in conjunction with the PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS), BASIC PROGRAM, PROGRAM DESCRIPTION AND SYSTEM MANUAL (GH20-0497) and the PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS), BASIC PROGRAM, OPERATIONS MANUAL (GH20-0498).
- GY20-0590  
CP-67 VERSION 3 PROGRAM LOGIC MANUAL PROGRAM NUMBER 360D-05.2.005  
This publication describes the internal logic of the CP-67 (Control Program-67) system. The system consists of a Control Program that creates a multiprogramming, time-sharing environment by providing virtual machines for users to run their own operating systems concurrently with other users. This manual is directed to personnel who will be responsible for the maintenance and modification of CP-67.
- GY20-0591  
CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM (CP-67/CMS) - PROGRAM NUMBER 360D-05.2.005 PROGRAM LOGIC MANUAL  
The Cambridge Monitor System (CMS) is a conversational monitor system that provides a comprehensive, easy-to-use set of programs (commands) giving the CMS user a wide variety of functions, including the ability to create additional commands or subsystems to satisfy his special requirements.  
This manual provides a detailed description of the internals of CMS.
- LY20-0595  
IBM SYSTEM/360 FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL-LOW CORE (FASTER LC) 5736-G22 SYSTEM MANUAL  
This manual details the program logic of FASTER LC, discussing each system routine and its function within the basic components identified as Line Control, Interface, and Message Processor. Internal controls are described and modification guidelines are provided, for the benefit of installation programmers or systems engineers. The information in this manual is not needed, ordinarily, by operations or applications personnel.  
Data-control flowcharts, line-control flowcharts, and program listings are logical parts of this manual and are made available in machine-readable form. See the Application Director for a description of the distribution medium.
- LY20-0596  
GENERAL PURPOSE SIMULATION SYSTEM V-05 (GPSS V-05) SYSTEM MANUAL, PROGRAM NUMBER 5734-XS2 FEATURE CODE 8101  
This publication contains a description of the internal structure and the basic operation of the GPSS program. All the modules which make up the GPSS program are discussed in general and, where appropriate, the operation of all routines within a given module is explained in detail.  
The information contained in this manual should give the user a thorough understanding of the structure and operation of the GPSS program so that modifications may be more easily designed and implemented.
- GY20-0597  
COMPATIBILITY OPERATING SYSTEM FOR EMULATION OF IBM 1410/7010 DATA PROCESSING SYSTEMS OPERATING ON IBM SYSTEM/360 MODEL 50 (COS/50) (360D-11.1.023) PROGRAM LOGIC MANUAL  
This publication describes the internal logic of the Compatibility Operating System (COS/50). COS/50 is used with System/360 Compatibility Feature No. 4478, modified by RPO F23660, to execute IBM 1410/7010 programs on an IBM System/360 Model 50. COS/50 operates as a problem program under the IBM System/360 Operating System.  
This manual is intended for persons involved in program maintenance, or system programmers who are altering the program design; it is not needed for normal use or operation of the program described.
- GY20-0599  
THE REAL-TIME MONITOR (RTM) SYSTEM MANUAL, PROGRAM NUMBER 360A-SV-001  
The Real-Time Monitor (RTM) is co-resident with OS. It provides fast interrupt response for real-time, event-driven systems. Normal OS jobs continue to run in background mode while the Monitor services real-time interrupts and schedules real-time jobs in priority mode. In addition, multiprogramming capability and OS facilities are provided for the real-time jobs. This manual presents the general logic specifications of RTM, which enable the user to run real-time and batch jobs concurrently. It is assumed that the reader is familiar with standard OS terminology.
- LY20-0601  
DATA/360 - DOS SYSTEM MANUAL PROGRAM NUMBER 5736-XS2, FEATURE CODE 8018  
This manual contains detailed descriptions and procedures for system generation. This publication also contains abstract descriptions and functional flowcharts for all key modules. To further assist the system programmer, console operator, and terminal operator, a set of sample problems and running instructions with sample outputs are included.
- LY20-0602  
GENERAL PURPOSE SIMULATION SYSTEM V - DOS SYSTEM MANUAL, PROGRAM NUMBER 5736-XS3 FEATURE CODE 8101  
This publication contains a description of the internal structure and the basic operation of the GPSS program. All the modules which make up the GPSS program are discussed in general and, where appropriate, the operation of all routines within a given module is explained in detail.  
The information contained in this manual should give the user a thorough understanding of the structure and operation of the GPSS program so that modifications may be more easily designed and implemented.
- LY20-0604  
CUSTOMER INFORMATION CONTROL SYSTEM, OS-STANDARD (CICS/OS) (5736-U11), LANGUAGE AND TERMINAL (L/T) FEATURE SYSTEM MANUAL, FEATURE CODE 8060  
The purpose of this manual is to give the user a thorough understanding of the logic of the IBM Language and Terminal (L/T) Feature, an extension to the Customer Information Control System OS-STANDARD (CICS/OS) (5736-U11).  
The manual is intended for use by the system programmer responsible for program maintenance and program design alteration. The manual contains module flowcharts, flowchart narratives, and control area and control table formats.  
The Language and Terminal Feature gives the user the ability to write his processing programs in PL/I or COBOL. The feature extends the terminal support to the 1030 Data Collection System, 2741 Communication Terminal, Binary Synchronous Communication Terminal with support for System/360 on non-switched lines, System/360 Model 20 on non-switched lines, 1130 Computing System on non-switched lines, 2780 Data Transmission Terminal on non-switched lines, and switched line support for 2740 Communication Terminal, 2741 Communications Terminal, and 1050 Communication System.  
OS-STANDARD (CICS/OS) has been added to the name of this system to distinguish it from the recently announced DOS systems CICS/DOSE and CICS/DOSS. Functional changes have not been made.
- LY20-0606  
SYSTEM/360 FINANCIAL TERMINAL SYSTEM SYSTEM MANUAL, VOLUME I: FLOWCHART NARRATIVES PROGRAM NUMBER 5736-F12, FEATURE CODE 8026  
This manual describes the internal logic and flow of the Financial Terminal System (FTS). This system, operating as the controller of a DOS teleprocessing and multitasking partition, provides control of network operations and an efficient environment in which up to eight user-written application programs may concurrently process terminal

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transactions.

The contents of this manual include data specifications, internal macro usage, and detailed descriptions of all PTS modules. The purpose of the manual is to provide the user with a level of understanding sufficient to enable him to maintain the system, diagnose errors, or modify its design.

Volume II of the System Manual (LY20-0607) contains flowcharts of all PTS logic modules.

LY20-0607

SYSTEM/360 FINANCIAL TERMINAL SYSTEM  
SYSTEM MANUAL VOLUME II: FLOWCHARTS  
PROGRAM NUMBER 5736-F12 FEATURE CODE 8026  
This manual contains flowcharts of all Financial Terminal System logic modules and supplements Volume I of the System Manual.

LY20-0608

FORTRAN CONVERSION AID PROGRAM (SYSTEM MANUAL,  
PROGRAM NUMBER 5799-AAJ, FEATURE CODE 8001,  
REFERENCE NUMBER FA1287)  
The FORTRAN Conversion Aid Programming RPQ assists in converting programs written in certain non-System/360 FORTRAN dialects to System/360 executable code. Conversion is accomplished through translation, hand modification, compilation, and object-time library simulation. This programming RPQ is available on special quotation only.

LY20-0609

PROJECT MANAGEMENT SYSTEM IV (PMS IV)  
PROGRAM NUMBER 5734-XP4, FEATURE NUMBER 8074  
COST PROCESSOR SYSTEM MANUAL  
This manual presents a detailed description of subroutines and internal data formats of PMS IV Cost Processor. In conjunction with the program listings and flowcharts, it provides the user with a complete description of how this processor is implemented.

LY20-0610

PROJECT MANAGEMENT SYSTEM IV (PMS IV)  
PROGRAM NUMBER 5734-XP4 - FEATURE NUMBER 8071  
NETWORK PROCESSOR SYSTEM MANUAL  
This manual presents a detailed description of subroutines and internal data formats of PMS IV Network Processor. In conjunction with the program listings and flowcharts, it provides the user with a complete description of how this processor is implemented.

LY20-0611

PROJECT MANAGEMENT SYSTEM IV (PMSIV)  
RESOURCE ALLOCATION PROCESSOR SYSTEM MANUAL  
PROGRAM NUMBER 5734-XP4, FEATURE CODE 8077  
This manual presents a detailed description of subroutines and internal data formats of PMSIV Resource Allocation Processor. In conjunction with the program listings and flowcharts, it provides the user with a complete description of how this processor is implemented.

LY20-0612

PROJECT MANAGEMENT SYSTEM IV (PMS IV)  
PROGRAM NUMBER 5734-XP4 - FEATURE NUMBER 8068  
REPORT PROCESSOR SYSTEM MANUAL  
This manual presents a detailed description of subroutines and internal data formats of PMS IV Report Processor. In conjunction with the program listings and flowcharts, it provides the user with a complete description of how this processor is implemented.

LY20-0613

PROJECT MANAGEMENT SYSTEM IV (PMSIV)  
COST PROCESSOR FLOWCHART MANUAL  
PROGRAM NUMBER 5734-XP4, FEATURE CODE 8075  
This manual contains the flowcharts for the Cost Processor of Project Management System IV. It should be used in conjunction with the system manual for the Cost Processor.

LY20-0614

PROJECT MANAGEMENT SYSTEM IV (PMSIV)  
NETWORK PROCESSOR FLOWCHART MANUAL  
PROGRAM NUMBER 5734-XP4, FEATURE CODE 8072  
This manual contains the flowcharts for the Network Processor of Project Management System IV. It should be used in conjunction with the system manual for the Network Processor.

LY20-0615 see page 228

LY20-0616

PROJECT MANAGEMENT SYSTEM IV (PMSIV)  
REPORT PROCESSOR FLOWCHART MANUAL  
PROGRAM NUMBER 5734-XP4, FEATURE CODE 8069

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This manual contains the flowcharts for the Report Processor of Project Management System IV. It should be used in conjunction with the system manual for the Report Processor.

LY20-0621

CONSUMER GOODS SYSTEM (COGS), FORECASTING (OS),  
SYSTEM MANUAL, PROGRAM NUMBER 5734-D33  
This manual contains source code listings and flowcharts to aid the user in program product implementation and modification.

LY20-0622

CONSUMER GOODS SYSTEM (COGS) ALLOCATION (OS) SYSTEM MANUAL  
PROGRAM NUMBER 5734-D32  
This manual contains source code listings and flowcharts to aid the user in program product implementation and modification.

LY20-0623

SYSTEM/360 TEXT PROCESSOR PAGINATION/360, SYSTEM MANUAL,  
VOLUME I - FLOWCHART NARRATIVES - PROGRAM NUMBER 5736-K12,  
FEATURE CODE 8018  
The two-volume System Manual provides detailed information to assist the user in acquiring a thorough knowledge of the programming logic and techniques used in PAGINATION/360. The manual is intended primarily for the use of systems analysts and programmers who may need to alter or maintain the program. The Program Description Manual and Operations Manual are prerequisites to reading and using the System Manual.  
This volume of the System Manual contains narratives, and switch and register lists. Volume II contains the program logic flowcharts.

LY20-0624

SYSTEM/360 TEXT PROCESSOR PAGINATION/360, SYSTEM MANUAL,  
VOLUME II - FLOWCHARTS - PROGRAM NUMBER 5736-K12,  
FEATURE CODE 8011  
The two-volume System Manual provides detailed information to assist the user in acquiring a thorough knowledge of the programming logic and techniques used in PAGINATION/360. The manual is intended primarily for the use of systems analysts and programmers who may need to alter or maintain the program. The Program Description Manual and Operations Manual are prerequisites to reading and using the System Manual.  
This volume of the System Manual contains the program logic flowcharts. Volume I contains narratives, and switch and register lists.

LY20-0628

SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM  
SYSTEM MANUAL - PROGRAM NUMBER 5736-F32 FEATURE NUMBER 8033  
This publication provides the systems programmer with detailed information about the ACIP system. It contains flowcharts and descriptions of each ACIP routine. In addition, there is a section on system modification considerations.

LY20-0629

INFORMATION MANAGEMENT SYSTEM/360, VERSION 2  
PROGRAM NUMBER 5734-XY6  
SYSTEM MANUAL - LOGIC VOLUME I, FEATURE CODE 8080  
Information Management System/360 is a processing program designed to facilitate the implementation of medium to large common data bases in a multiapplication environment. This environment is created to accommodate both online message processing and conventional batch processing, either separately or concurrently. The system permits the evolutionary expansion of data processing applications from a batch-only to a teleprocessing environment.  
This manual includes a description of each module of the IMS/360 program. It also contains information on macros used, interfaces and module sizes, error codes and handling, and ABENDs. Flowcharts are contained in Volume II. Volume III contains listings of the data base (batch) portion of the IMS/360 program, furnished as microfiche. Volume IV contains listings of the data communications portion of the program, also furnished as microfiche.

LY20-0630

INFORMATION MANAGEMENT SYSTEM/360, VERSION 2, VOLUME 2,  
SYSTEM MANUAL (FLOWCHARTS), MICROFICHE  
PROGRAM NUMBER 5734-XY6, FEATURE CODE 8081  
Information Management System/360 is a processing program designed to facilitate the implementation of medium to large common data bases in a multi-application environment. This environment is created to accommodate both on-line message processing and conventional batch processing, either separately or concurrently.  
This manual includes a flowchart of each module in the IMS/360 program. Module descriptions are contained

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in Volume I. Volume III contains listings of the data base (batch) portion of the IMS/360 program, furnished as microfiche. Volume IV contains listings of the data communications portion of the program, also furnished as microfiche.

basic information processing requirements of clinical laboratories. Utilizing the Clinical Laboratory Data Acquisition System (CLDAS) program product (5718-H11) or its equivalent for the data acquisition function, CLMS provides a broad base for an information management system. CLMS directs and controls the flow of information from receipt of the initial requisition for a test until the final result has been developed and is ready for reporting. CLMS operates under the IBM 1800 Time Sharing Executive System (see C26-3703) on the IBM 1800 Data Acquisition and Control System.

LY20-0634

DISPLAY MANAGEMENT SYSTEM, SYSTEM MANUAL  
PROGRAM NUMBER 5734-XC1, FEATURE CODE 8005  
The IBM Display Management System (DMS) is a series of application modules, operating under a supervisor, which greatly simplify, to the user, the complexities of implementing interactive data processing operations which feature the 2260/65 Display Station. By use of three forms provided by DMS the user implements his own applications on a customized basis by describing his data files, designing 2260/65 Display Station images (panels) in the language of his own application, and describing the utility functions that are required. The purpose of this manual is to give the user a thorough understanding of the logic employed in each module.

The purpose of this manual is to provide detailed description of the functions of CLMS. It is intended for use as a reference document. A SYSTEM MANUAL DIRECTORY is included which outlines the organization of the manual.

This manual contains detailed program flowcharts, flowchart narratives, control area and control table formats, register considerations, special programming techniques and information concerning program modification.

LY20-0655

SHARED LABORATORY INFORMATION SYSTEM (SLIS) SYSTEM MANUAL  
PROGRAM PRODUCT 5736-H12  
This manual contains detailed program information useful for program modification, error diagnosis and maintenance. The manual contains detailed descriptive information on the logical operation of each program, through program flowcharts. Most flowchart narratives are general, but more detail has been included for the complicated programs. Labels and symbols, programmed switches, program indicators, register usage, special techniques, program modification notes, and service subprogram usage are defined for each system program.

LY20-0635

CONTROL PROGRAM-67 ONLINE COBOL SYMBOLIC DEBUG  
SYSTEM MANUAL  
PROGRAM NUMBER 5799-AEE, FEATURE NUMBER 8006  
This publication describes the system design and actual coding of the Symbolic Debug system. It is intended primarily for the systems programmers. This programming RPQ is available on special quotation only (see inside front cover).

This document is written as a reference manual. Before using this manual the reader should be thoroughly familiar with the following manuals: SHARED LABORATORY INFORMATION SYSTEM APPLICATION DESCRIPTION MANUAL (GH20-0709), SHARED LABORATORY INFORMATION SYSTEM LABORATORY MANUAL (SH20-0769), SHARED LABORATORY INFORMATION SYSTEM PROGRAM DESCRIPTION MANUAL (SH20-0780), SHARED LABORATORY INFORMATION SYSTEM OPERATIONS MANUAL (SH20-0781).

LY20-0638

DATA/360-OS SYSTEM MANUAL  
PROGRAM NUMBER 5734-XS3, FEATURE CODE 8087  
This manual contains detailed descriptions of the DATA/360-OS files, modules, and macros. It is intended for systems programmers or equivalent who wish to become familiar with the internal workings of DATA/360-OS. Topics pertaining to generating and operating DATA/360-OS are found in the DATA/360-OS Console Operator's Guide (SH20-0926). Topics pertaining to terminal operations and training are located in the DATA/360-OS Terminal Operator's Guide (SH20-0925).

LY20-0656

IBM SYSTEM/360 BASIC COURTS SYSTEM, SYSTEM MANUAL  
PROGRAM NUMBER 5736-G26  
This manual details the logic of the batch and online programs within the Basic Courts System. Internal buffers and switches are described, and modification guidelines are provided, for the benefit of installation programmers or systems engineers. The information in this manual is not needed, ordinarily, by operations or applications personnel. The batch programs are written in ANS COBOL. The online programs are written in the macro language of PASTER LC (Filing And Source Data Entry Techniques for EASIER Retrieval--Low Core). The online programs run under control of the PASTER LC system. The System Manual for PASTER LC (feature 8056, order number LY20-0595) should be referenced for PASTER LC program logic.

LY20-0640

MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX)  
MIXED INTEGER PROGRAMMING (MIP) - SYSTEM MANUAL  
PROGRAM NUMBER 5734-XM4, FEATURE NUMBER 8056  
MIP is an extension of the linear programming module of the Mathematical Programming System Extended (MPSX). It allows the processing of mixed integer linear programming problems, that is, linear programming problems in which some of the variables must take integer values. This manual describes the "branch and bound" method used and the MIP routines.

LY20-0661

COMPUTER SYSTEM SIMULATOR II (CSS II), SYSTEM MANUAL  
PROGRAM NUMBER 5734-XS5, FEATURE CODE 8035  
This manual provides a detailed description of the structure and internal operation of the routines within the CSS II program. It is primarily intended to be used as a guide with the program listing for users intending either to modify the program or to write an assembly language HELP routine to be associated with the program.

LY20-0641

MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX)  
MIXED INTEGER PROGRAMMING (MIP) FLOWCHART MANUAL  
PROGRAM NUMBER 5734-XM4, FEATURE CODE 8057  
This manual contains the flowcharts for the Mixed Integer Programming (MIP) Feature of MPSX. It should be used in conjunction with the MIP System Manual and the source or assembly listings.

LY20-0663

FARE QUOTE/TICKETING FUNCTIONAL SPECIFICATION  
PROGRAM NUMBER 5736-T11  
This manual describes in some detail the functional capabilities offered by the Fare Quote/Ticketing package and the relationship to the PARS environment. It explains system philosophy, broad programming guidelines and data record characteristics.

LY20-0642

MATHEMATICAL PROGRAM SYSTEM EXTENDED (MPSX) FLOWCHART MANUAL  
PROGRAM NUMBER 5734-XM4, FEATURE CODE 8055  
This manual contains the flowcharts for the Mathematical Programming System Extended (MPSX). It should be used in conjunction with the MPSX System Manual and the source or assembly listings.

LY20-0664

FARE QUOTE/ISSUE TICKET PROGRAM AND PACKAGE SPECIFICATIONS  
PROGRAM NUMBER 5736-T11  
This manual describes the plans, controls, methods and techniques used for communications between the PARS system and the Fare Quote/Ticketing System in order to calculate fares and issue tickets.

LY20-0646

MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX)  
SYSTEM MANUAL, PROGRAM NUMBER 5734-XM4, FEATURE CODE 8056  
This manual provides detailed information to help the user understand the implementation of MPSX. It is designed to be used with the program listings and flowcharts of MPSX.

LY20-0665

TARIFF MAINTENANCE PROGRAM AND PACKAGE SPECIFICATIONS  
PROGRAM NUMBER 5736-T11  
This manual contains the specifications which describe the plans, methods, controls and techniques of editing, constructing and updating the tariff and ticketing file required by the Fare Quote/Ticketing package to perform its function.

LY20-0649

IBM CLINICAL LABORATORY MANAGEMENT SYSTEM - SYSTEM MANUAL  
PROGRAM PRODUCT 5718-H12  
The IBM Clinical Laboratory Management System applies the capabilities of the IBM 1800 Data Acquisition and Control System to the problems of the clinical laboratory. It is a system of files and procedures designed to satisfy

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- LY20-0666  
FARE QUOTE/TICKETING DATA/MACRO SPECIFICATION  
PROGRAM NUMBER 5736-T11  
This manual describes the purpose and format of all data records used in the Fare Quote/Ticketing Program Product and illustrates how the data is created, maintained and used to produce a fare quotation and a printed ticket. This document also describes all executable macros written for the Fare Quote/Ticketing Program Product detailing their purpose and functions including all programming considerations and requirements.
- LY20-0670  
CLINICAL LABORATORY MANAGEMENT SYSTEM (CLMS) MPX FEATURE  
CONVERSION FEATURE - PROGRAM PRODUCT 5718-N12.  
FEATURE CODE 8007  
No abstract available.
- LY20-0671  
PROCEDURE LIBRARY - MATHEMATICS (PL-MATH) SYSTEM MANUAL  
PROGRAM NUMBER 5734-XM3 FEATURE NUMBER 8051  
This manual contains the source code listings for the procedures and sample programs of the PL-MATH Library.
- LY20-0674  
MINIPERT SYSTEM MANUAL, FEATURE NUMBER 8086  
PROGRAM NUMBER 5734-XP3  
This manual contains a detailed description and listing for every MINIPERT function in each of the five workspaces.
- LY20-0678  
APL/360-OS AND APL/360-DOS SYSTEM MANUAL  
FEATURE NUMBERS 8091, 8034  
PROGRAM NUMBERS 5734-XM6, 5736-XM6  
This publication provides general information relating to the design and program logic of the program products. When used as a debugging tool, this manual serves as a guide to the program listings.
- LY20-0679  
COURSEWRITER III, VERSION 3 DISK OPERATING SYSTEM  
SYSTEM PROGRAMMER'S GUIDE - PROGRAM NUMBER 5736-E11  
This publication provides detailed information of programming logic employed in the application.  
It is assumed that the reader has prior knowledge of Coursewriter III, the Disk Operating System, and Basic Telecommunications Access Method.  
Flowcharts and assembly listings are not in this publication (see "Optional Machine Readable Information" in the Application Directory).
- LY20-0681  
CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII),  
SYSTEM MANUAL - VOLUME I - PROGRAM NUMBER 5736-N13  
This manual provides detailed information to help the user understand the special CFO II macros that provide system compatibility. The subroutines used by many of the CFO II programs are also described in this manual. A program abstract and flowchart, a storage allocation table, and a listing of program switches and their descriptions are included for each of the subroutines.  
This manual also describes (1) the processing of card image input for file maintenance, accounting and status request transactions, and the creation of the transaction file; (2) the editing of transactions; (3) the selection, addition, replacement, deletion, and updating of policy master records on the policy master file. Appropriate flowcharts, storage allocation tables, program modification aids, and a listing of program switches and their descriptions are included.
- LY20-0682  
CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII),  
SYSTEM MANUAL - VOLUME II - PROGRAM NUMBER 5736-N13  
This manual provides detailed information to help the user understand file maintenance processing. It describes external file maintenance transactions that add, delete, or replace individual policy master record fields and/or trailers. It also describes the automatic trailer processing related to policy status coding and the policy exhibit adjustment. Appropriate flowcharts, storage allocation tables, program modification aids, and a listing of program switches and their descriptions are included.
- LY20-0683  
CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII),  
SYSTEM MANUAL - VOLUME III - PROGRAM NUMBER 5736-N13  
This manual provides detailed information to help the user understand the cash updating and anniversary processing programs. It describes 1) the editing functions performed by update processing and the automatic entries which are generated as part of that processing, and 2) the sequence of anniversary processing. Appropriate flowcharts, storage allocation tables, program modification aids, and a listing of program switches and their description are included.
- LY20-0684  
CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII),  
SYSTEM MANUAL - VOLUME IV - PROGRAM NUMBER 5736-N13  
This manual provides detailed information to help the user understand the generation of billing notification. In addition, the generation of status requests for scheduled conditions is described. Appropriate flowcharts, storage allocation tables, program modification aids, and a listing of program switches and their description are included.
- LY20-0685  
CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII),  
SYSTEM MANUAL - VOLUME V - PROGRAM NUMBER 5736-N13  
This manual provides information to help the user understand the program logic of the status series. It describes (1) the creation of the status temporary data record, (2) the calculations involving the mortality table and the policy master record, (3) the generation of accounting and policy exhibit transactions, (4) the updating of the policy master record and the generation of image status requests, and (5) the printing of the status report. Appropriate flowcharts, storage allocation tables, program modification aids, and a listing of program switches and their descriptions are included.
- LY20-0686  
CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII),  
SYSTEM MANUAL - VOLUME VI - PROGRAM NUMBER 5736-N13  
This manual provides detailed information to help the user understand the program logic concerned with (1) the merging of the status and nonstatus activity files, the creation of the life transaction file, and the processed master file; (2) the processing of general accounting entries, preparation of the policy accounting journal, and the premium distribution by state file; (3) the processing of sorted billing, commission, and accounting transactions and the printing of the general accounting journal and summary totals by account number; (4) the scheduling of the next automatic activity date in the policy master record and the creation of the policy exhibit transaction file. Appropriate flowcharts, storage allocation tables, program modification aids, and a listing of program switches and their descriptions are included.
- LY20-0687  
CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII),  
SYSTEM MANUAL - VOLUME VII - PROGRAM NUMBER 5736-N13  
This manual provides information to help the user understand the program logic for the periodic update programs. It describes (1) the creation of extracts for dividend and other participation updating of the policy master record; (2) the updating of the extracts with temporary values and other data from the dividend rate file; (3) the updating of the policy master record by adding temporary value records or by changing the participation option codes; (4) the replacement of old premium rates on the renewable term policy master records; (5) the creation of extracts for cash value updating master record; (6) the updating of the extracts with the cash values from the cash value rate file; and (7) the updating of the policy master record with the extracted cash values. Appropriate flowcharts, storage allocation tables, program modification aids, and a listing of program switches and their descriptions are included.
- LY20-0691  
COURSEWRITER III/OS VERSION 3 SYSTEM PROGRAMMERS GUIDE  
PROGRAM NUMBER 5734-E12  
This publication provides detailed information of programming logic employed in the application. It is assumed the reader has prior knowledge of Coursewriter III, the Operating System, and Basic Telecommunications Access Methods.  
Flowcharts and assembly listings are not in this publication (see "Optional Machine Readable Information" in the Application Directory.)  
System generating information is contained in Coursewriter III/OS, Version 3 Operator's Guide (SH20-1022).
- LY20-0692  
ELECTRONIC CIRCUIT ANALYSIS PROGRAM II (ECAP II) FOR THE IBM  
OPERATING SYSTEM AND I130 COMPUTING SYSTEM - SYSTEM MANUAL  
FEATURE NUMBER 8095 - PROGRAM NUMBERS 5734-E01, 5711-E01  
This manual contains detailed information useful to a system or an application programmer interested in making program modifications to ECAP II. This manual includes:  
o General organization of the program  
o Description of functions performed by each program

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- o phase and subroutine
  - o Program logic flowcharts
  - o Description of variables passed between programs and subroutines
  - o Data formats and file organization
- LY20-0693  
SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC UTILITY INDUSTRY, POWER FLOW OUTPUT AND CAPACITY FEATURE SYSTEM MANUAL, VOLUME V - PROGRAM NUMBER 5736-U12  
The Power System Planning (PSP) Program Product is designed for the IBM System/360 and System/370. Direct access storage is employed for a master data bank of repetitively used electrical power network data. Data is automatically retrieved from the master data bank by the Engineering Data Management Service (EDMS) component whenever a simulation component is run. In order to study the steady state and transient operational characteristics of present and projected interconnected power networks, three digital simulation components are included in the package: Power Flow, Short Circuit, and Transient Stability.  
This manual is designed for use by the system analyst and system programmer. It describes the basic solution technique and its implementation in the Power Flow Output and Capacity Feature. Power Flow files and variables are described. The format of the results file, which may be saved upon completion of a Power Flow simulation, is described. In addition, a description of each procedure in the Power Flow Output and Capacity Feature is given.
- LY20-0694  
BROKERAGE ACCOUNTING SYSTEM ELEMENTS (BASE) VERSION 2 SYSTEM MANUAL - PROGRAM NUMBER 5736-F31, FEATURE 8005  
This system manual consists principally of the flowcharts for each program in the Brokerage Accounting System Elements (BASE) system, together with such supplementary material as will aid the programmer in modifying the system to adapt it to a particular application requirement.  
The BASE system is composed of a number of closely interrelated programs that provide a comprehensive foundation for back office data processing applications in today's brokerage firm. Application areas covered include Purchase and Sale (PS), Stock Record, Dividends, Bookkeeping, Interest, Customer Statements, and such critical Cashier functions as Falls and Transfers. The BASE system is general enough to permit various options and modifications to suit the individual requirements of a particular brokerage firm. However, the processing in the application areas is extensive so that most programs will require little or no modification by the typical brokerage firm.
- LY20-0696  
GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL VOLUME 1 - PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8115  
This three-volume manual outlines and details the internal logic of the Generalized Information System, Version 2, for the benefit of programmers attempting to revise and/or maintain the system. The organization of the manual reflects the system's design structure of interfacing program units. As applicable, the manual includes diagnostic comments to assist in isolating faulty operation, and contains modification aids to assist in making minor changes to the system.
- LY20-0697  
GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL VOLUME 2 - PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8116  
This three-volume manual outlines and details the internal logic of the Generalized Information System, Version 2, for the benefit of programmers attempting to revise and/or maintain the system. The organization of the manual reflects the system's design structure of interfacing program units. As applicable, the manual includes diagnostic comments to assist in isolating faulty operation, and contains modification aids to assist in making minor changes to the system.
- LY20-0698  
GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL VOLUME 3 - PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8117  
This three-volume manual outlines and details the internal logic of the Generalized Information System, Version 2, for the benefit of programmers attempting to revise and/or maintain the system. The organization of the manual reflects the system's design structure of interfacing program units. As applicable, the manual includes diagnostic comments to assist in isolating faulty operation, and contains modification aids to assist in making minor changes to the system.
- LY20-0699  
IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE ARITHMETIC STATEMENT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8125  
This manual provides design and internal logic documentation for the above-named feature. These pages replace correspondingly numbered "reserve" pages in the System Manual provided with the Basic Retrieval System package.
- LY20-0700  
IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE TELEPROCESSING SUPPORT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8123  
This manual provides design and internal logic documentation for the above-named feature. These pages replace correspondingly numbered "reserve" pages in the System Manual provided with the Basic Retrieval System package.
- LY20-0701  
IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE CONTROL STATEMENT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8124  
This manual provides design and internal logic documentation for the above-named feature. These pages replace correspondingly numbered "reserve" pages in the System Manual provided with the Basic Retrieval System package.
- LY20-0702  
IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE PROCESSING STATEMENT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8126  
This manual provides design and internal logic documentation for the above-named feature. These pages replace correspondingly numbered "reserve" pages in the System Manual provided with the Basic Retrieval System package.
- LY20-0703  
IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE FORMAL REPORT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8119  
This manual provides design and internal logic documentation for the above-named feature. These pages replace correspondingly numbered "reserved" pages in the System Manual provided with the Basic Retrieval System package.
- LY20-0704  
IBM GENERALIZED INFORMATION SYSTEM VOLUME 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE HIERARCHIC FILE SUPPORT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8120  
This manual provides design and internal logic documentation for the above-named feature. These pages replace correspondingly numbered "reserve" pages in the System Manual provided with the Basic Retrieval System package.
- LY20-0705  
IBM GENERALIZED INFORMATION SYSTEM VOLUME 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE FILE UPDATE AND CREATE FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8118  
This manual provides design and internal logic documentation for the above-named feature. These pages replace correspondingly numbered "reserve" pages in the System Manual provided with the Basic Retrieval System package.
- LY20-0706  
IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE UTILITY FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8121  
This manual provides design and internal logic documentation for the above-named feature. These pages replace correspondingly numbered "reserve" pages in the System Manual provided with the Basic Retrieval System package.
- LY20-0707  
IBM GENERALIZED INFORMATION SYSTEM VOLUME 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE EDIT AND ENCODE FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8122  
This manual provides design and internal logic documentation for the above-named feature. These pages replace correspondingly numbered "reserve" pages in the System Manual provided with the Basic Retrieval System package.
- LY20-0708  
IBM GENERALIZED INFORMATION SYSTEM VOLUME 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE FILE MODIFY FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8127  
This manual provides design and internal logic documentation for the above-named feature. These pages replace correspondingly numbered "reserve" pages in the System Manual provided with the Basic Retrieval System package.

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LY20-0710

PLANNING SYSTEMS GENERATOR II (PSG II) LOGIC MANUAL  
PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8114  
Planning Systems Generator II (PSG II) gives the user the means to rapidly produce and evaluate a variety of financial plans. It offers the user a simple method for specifying planning data, establishing computational logic to be applied to the data, and for generating data displays and reports.

PSG II may be applied to the solution of planning problems for financial management and also for any division or department of a company with a planning function such as personnel or manpower planning, marketing projections, short-range budgeting, etc.

This manual is to be used in conjunction with the PSG II source code listings.

Users of this manual should be familiar with the following publications:

Planning Systems Generator II (PSG II): Operations Guide SH20-1041

Planning Systems Generator II (PSG II): Program Reference Manual SH20-1042

The Purpose of this manual is to assist the systems analyst in maintaining and/or modifying PSG II.

operators or applications personnel.

Data-control flowcharts, line control flowcharts, and program listings are logical parts of this manual and are made available in machine-readable form. See the Program Directory for a description of the distribution media.

LY20-0717

IBM FASHION REPORTER PROGRAM PRODUCT SYSTEM MANUAL  
PROGRAM NUMBER 5736-D11

This manual includes program flowcharts, flowchart narratives, and other information necessary to understand the programming logic used in the IBM Fashion Reporter system. This information will be useful when implementing or modifying this system.

The programs that operate on user data or the inventory file are written in IBM PL/I programming language. Programs which print reports are written in IBM System/360 RPG programming language.

Additional information regarding the system may be found in the following manuals:

o IBM Fashion Reporter, Program Description

Manual (SH20-2053)

o IBM Fashion Reporter, Operations Manual (SH20-2054)

LY20-0712

CUSTOMER INFORMATION CONTROL SYSTEM FEATURE NUMBER 8030  
(DOS-ENTRY) LOGIC MANUAL - PROGRAM NUMBER 5736-XX6

The IBM Customer Information Control System (CICS) is a transaction-oriented, multiapplication data base/data communication interface between a System/360 or System/370 operating system and user-written application programs. Applicable to most online systems, CICS provides many of the facilities necessary for standard terminal applications: message switching, inquiry, data collection, order entry, and conversational data entry.

CICS is available in three systems--two for DOS users and one for OS users. Because the two CICS/DOS systems are compatible with each other and with the CICS/OS system, it is possible to start with a small data base/data communication configuration and move up through DOS into OS.

The information contained in this manual is of interest to persons maintaining and modifying the operation of the CICS/DOS-ENTRY system.

LY20-0726

SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC  
UTILITY INDUSTRY SHORT CIRCUIT R0 FEATURE - SYSTEM MANUAL  
VOLUME VI, FEATURE 8103 - PROGRAM NUMBER 5736-U12

In order to study the steady state and transient operational characteristics of present and projected interconnected power networks, three digital simulation components are included in the Power System Planning program product: Power Flow, Short Circuit, and Transient Stability. The Short Circuit R0 Feature extends the capabilities of the Short Circuit component.

This manual is designed for use by the system analyst and system programmer. It describes the basic solution technique and its implementation in the Short Circuit R0 Feature. Files and variables are described. A description of each procedure in the Short Circuit R0 Feature is given.

LY20-0713

CUSTOMER INFORMATION CONTROL SYSTEM (CICS) LOGIC MANUAL  
PROGRAM NUMBER 5736-XX7 (DOS-STANDARD) FEATURE NUMBER 8031

The IBM Customer Information Control System (CICS) is a transaction-oriented, multiapplication data base/data communication interface between a System/360 or System/370 operating system and user-written application programs. Applicable to most on-line systems, CICS provides many of the facilities necessary for standard terminal applications: message switching, inquiry, data collection, order entry, and conversational data entry.

CICS is available in three systems--two for DOS users and one for OS users. Because the two CICS/DOS systems are compatible with each other and with the CICS/OS system, it is possible to start with a small data base/data communication configuration and move up through DOS into OS.

The information contained in this manual is of interest to persons maintaining and modifying the operation of the CICS/DOS-STANDARD system.

LY20-0728

STAT/BASIC FOR INTERACTIVE TERMINAL FACILITY LOGIC MANUAL  
FEATURE NUMBER 8100 - PROGRAM NUMBER 5734-XX3

STAT/BASIC is a comprehensive set of interactive statistical programs for ITF. It consists of 40 BASIC programs, providing the user with procedures for data generation, elementary statistics, regression and correlation analysis, multivariate analysis, analysis of variance, nonparametric statistics, time series analysis, and biostatistics. The interactive features include instructional messages, flexible control of calculations, extensive error checking, and data editing.

This manual provides program flowcharts, flowchart narrative, and program listings.

LY20-0733

BILL PROCESSOR SYSTEMS - IMS/360 BRIDGE. SYSTEM MANUAL  
PROGRAM NUMBER 5734-XX9

The Bill Processor Systems - IMS/360 Bridge consists of the programs necessary to convert bill processor system files to IMS/360 data bases and to access the converted data bases. The elements which make up the Bill Processor Systems - IMS/360 Bridge are as follows: the descriptor generator (GEN1), the conversion generator (GEN2), the unload module general source code (UNLS), the load program general source code (LOADS), the interface generator (GEN3), and the interface module general source code (INTFS).

This manual includes program flowcharts and flowchart narratives, as well as record layouts for the descriptor file entries. The manual is intended to aid systems analysts and programmers in installing and maintaining the Bill Processor Systems - IMS/360 Bridge programs.

LY20-0714

CUSTOMER INFORMATION CONTROL SYSTEM (CICS) OPERATING SYSTEM  
STANDARD VERSION 2 - FEATURE NUMBER 8142 - LOGIC MANUAL  
PROGRAM NUMBER 5734-XX7

The IBM Customer Information Control System (CICS) is a transaction-oriented, multiapplication data base/data communication interface between a System/360 or System/370 operating system and user-written application programs. Applicable to most online systems, CICS provides many of the facilities necessary for standard terminal applications: message switching, inquiry, data collection, order entry, and conversational data entry.

CICS is available in three systems - two for DOS users and one for OS users. Because the two CICS/DOS systems are compatible with each other and with the CICS/OS system, it is possible to start with a small data base/data communication configuration and move up through DOS into OS.

The information contained in this manual is of interest to persons maintaining and modifying the operation of the CICS/OS-STANDARD V2 system.

GY20-0738

OS/MVT WITH RESOURCE SECURITY - LOGIC MANUAL  
PROGRAM NUMBER 360A-SV-007 TYPE 1 EXTENSION

This manual describes the internal logic of the resource security system. Its use is intended for system programmers and for those persons having programming maintenance support responsibility.

LY20-0716

IBM DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY  
TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD

(DOS FASTER MTL) - SYSTEM MANUAL - PROGRAM NUMBER 5736-G24  
discussing each system routine and its function within the basic components identified as Line Control, Interface, and Message Processor. Internal controls are described for the benefit of installation programmers or systems engineers. The information in this manual is not needed ordinarily by

LY20-0743

AN APL (OS OR DOS) TEXT EDITOR AND COMPOSER: SYSTEM GUIDE  
PROG. NO. 5796-PAC, FEATURE NO. 0009

This manual contains information on the design and coding of this system. It includes annotated listings of all functions, tables of their usage, and lists of variables. It is intended to aid in modifying and maintaining the system and in diagnosing error situations.

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- LY20-0746  
APL/PDTS PROGRAMMING DEVELOPMENT TRACING SYSTEM - PDTS  
IUP - SYSTEMS GUIDE - PROGRAM NUMBER 5736-PAD  
 This 30 page document describes the steps necessary to modify the APL/PDTS Programming Development Tracking System IUP written in APL 360 OS/DOS. This program was developed to provide data to assist the user in tracking project schedules, costs and in making comparative analysis with minimal user interaction. It operates on the principle that the distribution of resource utilization or expenditure often follows an observed pattern with respect to time. This systems guide provides the Systems Analyst with the necessary information on the design, logic and coding of the system to enable him to make modifications, diagnose program errors, and perform program maintenance.
- LY20-0749 \*N  
FLIGHT DATA DISPLAY SYSTEM FUNCTION SPECIFICATIONS  
 This manual describes in some detail, the functional capabilities offered by the Flight Data Display System. It explains system philosophy, broad programming guidelines, data record characteristics and general agent facilities.
- LY20-0750 \*N  
FLIGHT DATA DISPLAY SYSTEM PACKAGE/PROGRAM SPECIFICATIONS  
IUP PROGRAM NO. 5736-PAE  
 This manual describes in some detail the programming that comprises this system. The code is described at flowchart level. Input/Output requirements are provided for each program.
- LY20-0751 \*N  
FLIGHT DATA DISPLAY SYSTEM DATA/MACRO/FILE SPECIFICATIONS  
IUP PROGRAM NO. 5796-PAE  
 This manual describes in some detail, the data records, the unique macros and the file descriptions used in this system.
- LY20-0787  
IBM OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES  
FOR EASIER RETRIEVAL MULTITHREAD (OS FASTER MT) - LOGIC  
MANUAL - PROGRAM NUMBER 5734-G21 - FEATURE CODE 8059  
 This manual details the program logic of FASTER MT, discussing each system routine and its functions within the basic components identified as Line Control, Interface and Message Processor. Internal controls are described for the benefit of installation programmers or systems engineers. The information in this manual is not needed, ordinarily, by operations or applications personnel. Data-control flowcharts, line-control flowcharts, and program listings are logical parts of this manual and are made available in machine-readable form. See the Application Directory for a description of the distribution medium.
- LY20-0788  
PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS)  
AUTOMOBILE ENHANCEMENTS - PROGRAM NUMBER 5736-N24  
SYSTEM REFERENCE MANUAL  
 The purpose of this manual is to describe the PALIS Automobile Enhancements program logic and all modifications made to the PALIS Automobile Program (360A-IP-11X), the PALIS Basic Program (360A-IP-10X), and the PALIS Additional Functions program product (5736-N21) to coincide with the enhancements functions. This manual is to be used in conjunction with the PALIS Automobile Premium Processing Program Description and System Manual (GH20-0499), the PALIS Automobile Claims Processing Program Description and System Manual (GH20-0500), the PALIS Basic Program Description and System Manual (GH20-0497), and the PALIS Basic Program Operations Manual (GH20-0498).
- LY20-0792  
BUDGET ACCOUNTING INFORMATION SYSTEM (BACIS) FOR PUBLIC  
INSTITUTIONS - LICENSED PROGRAM PRODUCT MANUAL  
PROGRAM NUMBER 5736-S23  
 BACIS is a budget preparation and appropriation accounting system for cities, counties, states, school districts, hospitals, colleges, universities and other public institutions. This manual contains the flowcharts and supporting narrative for the operational logic included within this information system.
- LY20-0793  
MARKETABLE SECURITIES INVENTORY SYSTEM - LOGIC MANUAL  
PROGRAM NUMBER 5799-ABY  
 The Marketable Securities Inventory System makes it possible to automate the handling of an investment securities portfolio. This programming RPQ is available on special quotation only (see inside front cover). It includes facilities for edit, update, and audit control of all input data relating to the portfolio. Input to the system includes interest income, security market values, trades, and tax adjustments. The system produces reports summarizing activity, portfolio status and performance, and various income and tax accounting information. This manual contains detailed information on the logic flow and coding of programs useful in modifying the program, diagnosing error situations, and maintaining the program.
- LY20-0800 \*M  
PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) HOME  
OWNERS ENHANCEMENTS - SYSTEM REFERENCE MANUAL  
FEATURE NUMBER 8105 - PROGRAM NUMBER 5736-N25  
 The Property and Liability Information System Homeowners Enhancements program product provides additional insurance data processing functions for the PALIS user. The Annualization enhancement permits the user to use annual rates in conformity with the MLIRB Annualization program edition 2-70. The Factored Rating enhancement allows the utilization of factors in connection with the rating of basic premium for forms HO-1, HO-2, HO-3, and HO-5. The continuous policy renewal option provides for the maintenance of one physical master record and one policy number for the entire life of a policy by the use of the continuous policy history record. Program logic has been included to provide for claims coverage verification and the creation of a loss face sheet extract which includes sufficient information for the generation of loss statistics. The declarations extract has been enlarged to provide additional premium statistical information. The purpose of this manual is to describe the PALIS Homeowners Enhancements program logic and all modifications made to the PALIS Additional Functions program (5736-N21) and the PALIS Basic Program (360A-IP-10X) to coincide with the enhancement functions. This manual is to be used in conjunction with the PALIS Homeowners Premium Processing Program Description and System Manual (LY20-0461), the PALIS Homeowners Claims Processing, Program Description and System Manual (LY20-0462), the PALIS Basic Program, Program Description and System Manual (GH20-0497), and the PALIS Basic Program, Operations Manual (GH20-0498).
- LY20-0804 \*N  
MATH/BASIC FOR SYSTEM 3 MODEL 6 AND ITF LOGIC MANUAL  
(FEATURE NO. 8017 AND 8153) - PROGRAM PRODUCTS 5703-YM2,  
5734-YM3  
 This manual contains the source code listings and the description of the computational blocks which are the basis of the MATH/BASIC routines.
- LY20-0808  
PLANNING SYSTEMS GENERATOR II (PSG II) DOS LOGIC MANUAL  
PROGRAM NUMBER 5736-XX1  
 Planning Systems Generator II (PSG II) DOS permits the user to rapidly produce and evaluate a variety of financial plans. It offers a simple method for specifying planning data, for establishing computational logic to be applied to the data, and for generating data displays and reports. PSG II may be applied to the solution of planning problems for financial management and also for any division or department of a company with a planning function such as personnel or manpower planning, marketing projections, budget planning, etc. Users of this manual should be familiar with the following publications:  
 Planning Systems Generator II (PSG II) DOS:  
 Operations Guide (SH20-1164)  
 Planning Systems Generator II (PSG II) DOS:  
 Program Reference Manual (SH20-1174)  
 The purpose of this manual is to assist the systems analyst in maintaining and/or modifying PSG II.
- LY20-0809  
GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM  
MANUAL SUPPLEMENT FOR THE PL/I QUERY SUPPORT FEATURE  
PROGRAM NUMBER 5734-XX1  
 The following pages provide design and internal logic documentation for the above-named feature. These pages replace correspondingly numbered "reserved" pages in the System Manual provided with the Basic Retrieval System package.
- GY21-0001  
IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT  
FORTRAN IV (16K CARD) PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 360P-FO-205  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.

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GY21-0004

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT DISTRIBUTION PROGRAM, PROGRAM NUMBER 360P-UT-208  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.

GY24-5001

IBM BASIC OPERATING SYSTEM/360 (8K DISK) SORT/MERGE PROGRAM NUMBER 360B-SM-308  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.

GY21-0012

IBM 1419 MAGNETIC CHARACTER READER  
IBM 1275 OPTICAL READER SORTER DEVICE DEPENDENT BSAM PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-DM-508  
This publication describes the internal program logic for the support of the IBM 1285, 1287, and 1288. The support includes modules to read documents with BSAM and journal tapes with QSAM.

GY24-5002

IBM BASIC OPERATING SYSTEM/360 SYSTEM CONTROL (8K DISK) PROGRAM NUMBER 360B-CL-302  
PROGRAM LOGIC MANUAL  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.

GY21-0013

IBM OS IBM 1285, 1287, AND 1288 OPTICAL READERS PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-DM-508  
This publication describes the internal program logic for the support of the IBM 1285, 1287, and 1288. The support includes modules to read documents with BSAM and Journal tapes with QSAM.

GY24-5003

IBM SYSTEM/360 BASIC OPERATING SYSTEM LOGICAL IOCS PROGRAM NUMBER 360B-IO-303 (SECTIONS 1 AND 2)  
PROGRAM NUMBER 360B-IO-304 (SECTION 3)  
PROGRAM NUMBER 360B-IO-305 (SECTION 4)  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.

LY21-0014

IBM DOS RPG II LANGUAGE PROGRAM LOGIC MANUAL PROGRAM NUMBER 5735-RG1 \*N  
This publication describes the internal logic of the RPG II compiler, object program, and formatted dump program. It is intended as a recall mechanism and a debugging aid. As a debugging aid, this manual serves best as a guide to sequences of instructions found in the coding of the program.  
This manual is divided into three parts describing the internal logic of the RPG II program. The first part describes the RPG II compiler, the second part describes the object program, and the third part the RPG II formatted dump program. Each part includes the following areas:  
o Introduction.  
o Method of Operation.  
o Program Organization.  
o Directory.  
o Data Areas.  
The information necessary to implement the program is not included in this publication.

GY24-5005

IBM SYSTEM/360 BASIC OPERATING SYSTEM REPORT PROGRAM GENERATOR (8K DISK) PROGRAM NUMBER 360B-RG-307  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.

LY21-0021

IBM SYSTEM/360 IBM 1288 BASIC UNFORMATTED READ SYSTEM PROGRAM LOGIC MANUAL PROGRAM NUMBER 5736-UT1  
This publication describes the internal logic of the data capture program. This includes the following areas:  
Method of operation  
Program organization  
Data area formats  
This manual is intended as a recall mechanism and a debugging aid. It does not include information necessary to implement the program.

GY24-5007

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT PAPER DOCUMENT PROGRAM NUMBERS 360P-IO-059, 360P-IO-058  
This reference manual provides detailed information on the internal logic of the IBM System/360 Basic Programming Support IOCP (Input Output Control Program). It is intended for technical personnel responsible for diagnosing the system operation and/or adapting the programming system to special usage.

LY21-0022

IBM SYSTEM/360 OPERATING SYSTEM  
IBM 1288 BASIC UNFORMATTED READ SYSTEM  
PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5734-UT3  
This PLM is written primarily for persons responsible for the maintenance of the program. It is intended as a recall mechanism and a debugging aid. As a debugging aid, this manual serves best as a guide to sequences of instructions found in the coding of the program.  
This publication describes the internal logic of the IBM 1288 Basic Unformatted Read System and includes the following items:  
-Method of Operation  
-Program Organization  
-Data Area Formats  
The information necessary to implement the program is not included in this publication.

GY24-5009

IBM SYSTEM/360 OPERATING SYSTEM COBOL-E PROGRAM NUMBER 360S-CO-503  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.

GY24-5010

IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC TAPE SYSTEM SYSTEM CONTROL AND IOCS PROGRAM NUMBER 360P-AS-091  
This publication describes the internal logic of the IOCS/System Control portion of the IBM System/360 Basic Programming Support (BPS) Basic Tape System. This publication discusses the BPS Control System (System Tape), BPS Independent Control System, and Logical and Physical IOCS supporting these systems. It is intended for use by persons involved in program maintenance, and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program. Therefore, distribution of this publication is limited to those with maintenance and alteration requirements.

GY24-5008

IBM SYSTEM/360 BASIC OPERATING SYSTEM DISK ASSEMBLER PROGRAM NUMBER 360B-AS-309  
This publication describes the internal logic of the IBM System/360 Basic Operating System, Disk Assembler Program. It is intended for use by persons involved in program maintenance and by system programmers who are altering the program design. Program logic information is not necessary for the operation of the Disk Assembler Program.  
The titles and abstracts of related publications are listed in the IBM SYSTEM/360 BIBLIOGRAPHY, Order No. GA22-6822.

SECTION 2:  
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TO THE RIGHT OF THE ORDER NUMBER.

- GY24-5012  
IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT TAPE ASSEMBLER PROGRAM NUMBER 360P-AS-091  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY24-5013  
IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT UNIVERSAL CHARACTER SET UTILITY PROGRAM PROGRAM NUMBER 360P-UT-048  
This publication describes the internal logic of the Universal Character Set Utility Program for System/360 Basic Programming Support. It is intended for use by persons involved in program maintenance, and system programmers who are altering the program design. Program logic information is not necessary for the use and operation of the program.
- GY24-5014  
IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC ASSEMBLER, PROGRAM LOGIC MANUAL PROGRAM NUMBER 360P-AS-021 \*N  
This publication provides detailed information on the internal logic of the IBM System/360 Basic Programming Support Basic Assembler. It is intended for technical personnel who are responsible for analyzing program operation, diagnosing malfunctions, and/or adapting the program to special usage. Program logic information is not necessary for the operation of the program.
- GY24-5015  
IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC UTILITIES PROGRAM LOGIC MANUAL  
This manual provides detailed information on the internal logic of the IBM System/360 Basic Programming Support Basic Utilities Programs. It is intended for use by persons involved in program maintenance and by system programmers who are altering the program design. Program logic information is not necessary for the operation of the Basic Utility Programs.
- GY24-5016  
IBM SYSTEM/360 BASIC OPERATING SYSTEM SORT/MERGE (16K TAPE) PROGRAM NUMBER 360B-SM-400  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY24-5017  
IBM SYSTEM/360 DISK OPERATING SYSTEM INTRODUCTION TO DOS LOGIC - PROGRAM NUMBER 360N-CL-453  
This manual is designed to introduce the Disk Operating System and to cross-reference six companion DOS PLMs. These associated publications are listed in the Preface of this manual.  
These publications are intended for persons who are involved in program maintenance or who are altering the program design. Program logic information is not needed for normal use or operation of the system control program.  
Titles and abstracts of other related publications are listed in the IBM SYSTEM/360 BIBLIOGRAPHY, GA22-6822.
- GY24-5018  
IBM SYSTEM/360 TAPE OPERATING SYSTEM LOGICAL IOCS, PROGRAM NUMBER 360N-IO-400, VERSION 2.1  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY24-5019  
IBM SYSTEM/360 TAPE OPERATING SYSTEM UTILITY PROGRAMS PROGRAM NUMBER 360N-UT-403  
This publication describes the internal logic of the IBM System/360 Tape Operating System Utility programs. It is intended for use by persons involved in program maintenance, and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program.
- GY24-5020  
IBM SYSTEM/360 DISK OPERATING SYSTEM, LOGICAL IOCS, VOLUME 1 INTRODUCTION PROGRAM LOGIC MANUAL, PROGRAM NUMBERS CPNOD 360N-CL-453, DAMOD 360N-IO-454, DIMOD 360N-CL-453, DTFEN 360N-CL-453, ISMOD 360N-IO-457, MRMOD 360N-IO-477, MTMOD 360N-IO-456, ORMOD 360N-IO-478, PRMOD 360N-CL-453, PTMOD 360N-IO-458, SDMOD 360N-IO-455  
This reference publication is one of four Program Logic Manuals that describe the internal logic of the Logical IOCS (Input-Output Control System) programs for the IBM System/360 Disk Operating System. The four related Program Logic Manuals are:  
Volume 1: INTRODUCTION, GY24-5020.  
Volume 2: UNIT RECORD, MAGNETIC TAPE, AND DEVICE INDEPENDENT FILES, GY24-5087.  
Volume 3: SEQUENTIAL AND DIRECT ACCESS DASD FILES, GY24-5088.  
Volume 4: INDEXED SEQUENTIAL FILE MANAGEMENT SYSTEM, GY24-5089.  
It is intended for persons involved in program maintenance and for system programmers who are altering the program design. Program logic information is not necessary for the operation of the programs described. Therefore, distribution is limited to those with maintenance and alteration responsibilities.  
Effective use of this publication requires an understanding of IBM System/360 operation and the Disk Operating System Assembler language and its associated macro definition language. Reference publications for this information are listed in the PREFACE.  
For a list of associated publications and their abstracts, see IBM SYSTEM/360 BIBLIOGRAPHY, GA22-6822.
- GY24-5021  
IBM SYSTEM/360 DISK OPERATING SYSTEM SORT/MERGE PROGRAM NUMBER 360N-SM-450  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY24-5022  
IBM SYSTEM/360 TAPE OPERATING SYSTEM, SYSTEM CONTROL, PROGRAM NUMBER 360N-CL-405, VERSION 2  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY24-5023  
IBM SYSTEM/360 DISK OPERATING SYSTEM UTILITIES PROGRAM NUMBERS 360N-UT-461, 360N-UT-462, 360N-UT-463  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY24-5025  
IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS COBOL D 360N-CB-402 VERSION 2, 360N-CB-452 VERSION 2  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY24-5026  
IBM SYSTEM/360 TAPE OPERATING SYSTEM AUTOTEST PROGRAM NUMBER 360N-PT-407  
This publication describes the internal logic of the IBM System/360 Tape Operating System Autotest program. It is intended for use by persons involved in program maintenance, and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program. Therefore, distribution of this publication is limited to those with maintenance and alteration requirements.

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- GY24-5027  
IBM SYSTEM/360 DISK OPERATING SYSTEM AUTOTEST  
PROGRAM NUMBER 360N-PT-459  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY24-5032  
IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS FORTRAN IV  
PROGRAM NUMBER 360N-FO-409 PROGRAM NUMBER 360N-FO-451  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY24-5037  
IBM SYSTEM/360, BASIC PROGRAMMING SUPPORT, REPORT PROGRAM  
GENERATOR FOR PUNCHED CARD EQUIPMENT PROGRAM NUMBER  
360P-RG-200  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY24-5045  
DOS AND TOS UTILITIES MACROS - PROGRAM LOGIC MANUAL  
PROGRAM NUMBERS 360N-UT-411, 360N-UT-471  
This publication describes the internal logic of the IBM DOS and TOS Utility Macros. It is intended for persons involved in program maintenance and for system programmers who are altering the program design. Program logic information is not necessary for the operation of the programs.  
These utility macros support file-to-file operations among the following devices:  
o IBM 2501 Card Reader  
o 1442 Card Read Punch  
o 2520 Card Read Punch  
o 2540 Card Read Punch  
o 1052 Printer Keyboard  
o 1403 Printer  
o 1404 Printer (continuous forms only)  
o 1443 Printer  
o 1445 Printer  
o 3211 Printer (optional features not supported)  
o 2311 Disk Storage Unit (DOS)  
o 2314 Direct Access Storage Facility (DOS)  
o 2319 Disk Storage (DOS)  
o IBM 2495 Tape Cartridge Reader (DOS)  
o 2400 Series Magnetic Tape Unit  
o 3420 Magnetic Tape Unit (DOS only)\*. For tape input and/or output, the utility macros require the optional Supervisor "set mode" facility.  
\*Note: 3420 support is provided only to a level equal to that of the 2400 series. This means that only 6 bytes of sense information are available, instead of the full 20.  
Effective use of this publication requires an understanding of IBM System/360 operating principles, and of the IBM System/360 Disk and Tape Operating System. Reference publications for this information are listed in the preface of this publication.  
Titles and abstracts of other related publications are listed in the IBM System/360 and System/370 Bibliography, GA22-6822.
- GY24-5056  
IBM SYSTEM/360 TAPE OPERATING SYSTEM  
ON-LINE TEST EXECUTIVE PROGRAM - PROGRAM NUMBER 360N-DN-410  
This reference publication describes the internal logic of the IBM System/360 Tape Operating System, On-Line Test Executive Program (OLTEP). It is for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation and use of the system; therefore, distribution is limited to those with maintenance and alteration requirements.  
Titles and abstracts of related publications are listed in the IBM System/360 and System/370 Bibliography, GA22-6822.
- GY24-5079  
IBM SYSTEM/360 DISK OPERATING SYSTEM LIBRARIAN MAINTENANCE  
AND SERVICE PROGRAMS PROGRAM NUMBER 360N-CL-453  
This reference publication describes the internal logic of the IBM System/360 Disk Operating System, Librarian Maintenance and Service Programs. It is intended for use by persons involved in program maintenance and by system programmers who are altering the program design. Program logic information is not needed for normal operation of the Librarian Programs. It is designed to be used as a supplement to the program listing.  
Effective use of this manual requires an understanding of IBM System/360 operation and of IBM System/360 Disk Operating System control and service programs, macro instructions, and operating procedures. Reference publications for this information are listed in the Preface of this manual.  
For overall system control logic description, this Program Logic Manual is to be used with four other PLMS:  
  
IBM SYSTEM/360 DISK OPERATING SYSTEM, INTRODUCTION TO SYSTEM CONTROL AND SERVICE PROGRAMS, GY24-5017.  
  
IBM SYSTEM/360 DISK OPERATING SYSTEM, IPL AND JOB CONTROL PROGRAMS, GY24-5086.  
  
IBM SYSTEM/360 DISK OPERATING SYSTEM, SUPERVISOR AND PHYSICAL TRANSIENTS, GY24-5151.  
  
IBM SYSTEM/360 DISK OPERATING SYSTEM, LOGICAL TRANSIENT PROGRAMS PLM, GY24-5152.  
  
IBM SYSTEM/360 DISK OPERATING SYSTEM, SYSTEM SERVICE PROGRAMS PLM, GY24-5153.  
  
IBM SYSTEM/360 DISK OPERATING SYSTEM, LINKAGE EDITOR, GY24-5080.  
  
Titles and abstracts of other related publications are listed in the IBM SYSTEM/360 BIBLIOGRAPHY, GA22-6822.
- GY24-5080  
IBM SYSTEM/360 DISK OPERATING SYSTEM LINKAGE EDITOR PROGRAM  
PROGRAM NUMBER 360N-CL-453  
This publication describes the internal logic of the IBM System/360 Disk Operating System, linkage editor program. It is intended for use by persons involved in program maintenance and by system programmers who are altering the program design. It is designed to be used as a supplement to the program listing.  
Effective use of this manual requires an understanding of IBM System/360 operation and of IBM System/360 Disk Operating System control and service programs, macro instructions, and operating procedures. Reference publications for this information are listed in the PREFACE of this manual.  
For overall system control logic description, this PLM is to be used with five other PLMS:  
1. IBM SYSTEM/360 DISK OPERATING SYSTEM, INTRODUCTION TO SYSTEM CONTROL PROGRAMS, Form GY24-5017.  
2. IBM SYSTEM/360 DISK OPERATING SYSTEM, IPL AND JOB CONTROL PROGRAMS, Form GY24-5086.  
3. IBM SYSTEM/360 DISK OPERATING SYSTEM, SUPERVISOR AND PHYSICAL AND LOGICAL TRANSIENTS, Form GY24-5084.  
4. IBM SYSTEM/360 DISK OPERATING SYSTEM, LIBRARIAN MAINTENANCE AND SERVICE PROGRAMS, Form GY24-5079.  
5. IBM SYSTEM/360 DISK OPERATING SYSTEM, LOGICAL IOCS, VOLUME 1: INTRODUCTION, Form GY24-5020.  
Titles and abstracts of other related publications are listed in the IBM SYSTEM/360 Bibliography, Form GA22-6822.
- GY24-5086  
IBM SYSTEM/360 DISK OPERATING SYSTEM IPL AND  
JOB CONTROL PROGRAMS  
PROGRAM NUMBER 360N-CL-453  
This reference publication describes the internal logic of the IBM System/360 Disk Operating System, Initial Program Load (IPL) and Job Control Programs. It is intended for use by persons involved in program maintenance and by system programmers who are altering the program design. It is designed to be used as a supplement to the program listing.  
Effective use of this manual requires an understanding of IBM System/360 operation and of IBM System/360 Disk Operating System control and service programs, macro instructions, and operating procedures. Reference publications for this information are listed in the Preface of this manual.  
For overall system control logic description, this PLM is to be used with four other PLMS:  
1. IBM SYSTEM/360 DISK OPERATING SYSTEM, INTRODUCTION TO SYSTEM CONTROL AND SERVICE PROGRAMS, Form GY24-5017.  
2. IBM SYSTEM/360 DISK OPERATING SYSTEM, SUPERVISOR AND PHYSICAL AND LOGICAL TRANSIENT PROGRAMS, Form GY24-5084.  
3. IBM SYSTEM/360 DISK OPERATING SYSTEM, LIBRARIAN MAINTENANCE AND SERVICE PROGRAMS, Form GY24-5079.

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4. IBM SYSTEM/360 DISK OPERATING SYSTEM, LINKAGE  
EDITOR, Form GY24-5080.
- GY24-5087  
IBM SYSTEM/360 DISK OPERATING SYSTEM LOGICAL IOCS VOLUME 2:  
UNIT RECORD, MAGNETIC TAPE AND DEVICE INDEPENDENT FILES  
PROGRAM LOGIC MANUAL  
This reference publication is one of four Program Logic  
Manuals that describe the internal logic of the Logical  
IOCS (Input/Output Control System) programs for the IBM  
System/360 Disk Operating System. The four related Program  
Logic Manuals are:
- Volume 1: INTRODUCTION, GY24-5020.  
Volume 2: UNIT RECORD, MAGNETIC TAPE, AND DEVICE INDE-  
PENDENT FILES, GY24-5087.  
Volume 3: SEQUENTIAL AND DIRECT ACCESS DASD FILES,  
GY24-5088.  
Volume 4: INDEXED SEQUENTIAL FILE MANAGEMENT SYSTEM,  
GY24-5089.
- This manual is intended for persons involved in program  
maintenance and by system programmers who are altering  
the program design. Program logic information is not  
necessary for the operation of the programs described.  
Effective use of this publication requires an  
understanding of IBM System/360 operation and the Disk  
Operating System Assembler language and its associated  
macro definition language. Reference publications for  
this information are listed in the PREFACE.  
For the titles and abstracts of other related  
publications, refer to the IBM SYSTEM/360 BIBLIOGRAPHY,  
GA22-6822.
- GY24-5088  
IBM SYSTEM/360 DISK OPERATING SYSTEM, LOGICAL IOCS  
VOLUME 3: SEQUENTIAL AND DIRECT ACCESS DASD FILES.  
(PROGRAM NUMBERS: SDMOD 360N-IO-455 DAMOD 360N-IO-454)  
PROGRAM LOGIC MANUAL  
This reference publication is one of four Program Logic  
Manuals that describe the internal logic of the Logical  
IOCS (Input/Output Control System) programs for the IBM  
System/360 Disk Operating System. The four related Program  
Logic Manuals are:
- Volume 1: INTRODUCTION, GY24-5020.  
Volume 2: UNIT RECORD, MAGNETIC TAPE, AND DEVICE  
INDEPENDENT FILES. GY24-5087.  
Volume 3: SEQUENTIAL AND DIRECT ACCESS DASD FILES,  
GY24-5088.  
Volume 4: INDEXED SEQUENTIAL FILE MANAGEMENT SYSTEM,  
GY24-5089.
- This manual is intended for use by persons involved  
in program maintenance and by system programmers who are  
altering the program design. Program logic information  
is not necessary for the operation of the programs  
described. Therefore, distribution is limited to those  
with maintenance and alteration responsibilities.  
Effective use of this publication requires an  
understanding of IBM System/360 operation and the Disk  
Operating System Assembler language and its associated  
macro definition language. Reference publications for  
this information are listed in the Preface.  
For the titles and abstracts of other related  
publications, refer to the IBM SYSTEM/360 BIBLIOGRAPHY,  
GA22-6822.
- GY24-5089  
DOS LIOCS VOLUME 4: ISFMS - PROGRAM NUMBER 360N-IO-457  
This reference publication is one of four Program Logic  
Manuals that describe the internal logic of the Logical IOCS  
programs for the IBM Disk Operating System. The four  
related Program Logic Manuals are listed below.  
Note: Although titles of some DOS publications have  
been simplified, the change does not affect the contents of  
the publications.  
Volume 1. Introduction, GY24-5020  
Volume 2. Unit Record, Magnetic Tape, Device  
Independent Files, GY24-5087  
Volume 3. SAM and DAM for DASD, GY24-5088  
Volume 4. ISFMS, GY24-5089  
It is intended for use by persons involved in program  
maintenance and by system programmers who are altering the  
program design. Program logic information is not necessary  
for the operation of the programs described.  
Effective use of this publication requires an  
understanding of system operation, assembler language, and  
its associated macros. Reference publications for this  
information are listed in the Preface.  
For the titles and abstracts of other related  
publications, refer to the IBM System/360 and System/370  
Bibliography, GA22-6822.
- GY24-5096  
IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT MODULAR FILE  
MAINTENANCE PROGRAM - PROGRAM NUMBER 360P-UT-219  
This publication describes the internal logic of the Modular  
File Maintenance Program for IBM System/360 Basic  
Programming Support. It is intended for use by persons  
involved in program maintenance and by system programmers  
who are altering the program design. Program logic  
information is not necessary for the operation and use  
of the system.
- GY24-5151  
IBM SYSTEM/360 DISK OPERATING SYSTEM  
SUPERVISOR AND PHYSICAL TRANSIENTS - PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 360N-CL-453  
This reference publication describes the internal logic  
of the IBM System/360 Disk Operating System, Supervisor  
and Transients Programs. It is for persons involved in  
program maintenance and system programmers altering the  
program design. Program logic information is not needed  
for normal operation of these programs. This publication  
is a supplement to the program listing.  
Effective use of this manual requires an understanding  
of IBM System/360 operation and of IBM System/360 Disk  
Operating System control and service programs, macro  
instructions, and operating procedures. Reference  
publications for this information are listed in the PREFACE  
of this manual.
- GY24-5152  
IBM SYSTEM/360 DISK OPERATING SYSTEM  
LOGICAL TRANSIENT PROGRAMS  
This reference publication describes the internal logic  
of the IBM System/360 Disk Operating System, Logical  
Transient Programs. It is for persons involved in program  
maintenance and for system programmers who are altering  
the program design. Program logic information is not  
needed for normal operation of these programs.  
Effective use of this manual requires an understanding  
of IBM System/360 operation and of IBM System/360 Disk  
Operating System control and service programs, macro  
instructions, and operating procedures. Reference  
publications for this information are listed in the PREFACE  
of this manual.  
Titles and abstracts of other related publications  
are listed in the IBM SYSTEM/360 BIBLIOGRAPHY, GA22-6822.
- GY24-5153  
IBM SYSTEM/360 DISK OPERATING SYSTEM  
SYSTEM SERVICE PROGRAMS  
This reference publication describes the internal logic  
of supervisor-interrelated service programs of the IBM  
System/360 Disk Operating System.  
This manual is intended for persons involved in program  
maintenance and for system programmers altering the program  
design. Program logic information is not needed for normal  
use or operation of the system control program. It is  
designed as a supplement to the program listing.  
Its effective use requires an understanding of IBM  
System/360 operation and of IBM System/360 Disk Operating  
System control and service programs, macro instructions,  
and operating procedures. Reference publications for this  
information are listed in the PREFACE of this manual.
- GY24-5154  
IBM SYSTEM/360 DISK OPERATING SYSTEM ON-LINE TEST EXECUTIVE  
PROGRAM - PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360N-DN-481  
This reference publication describes the internal logic of  
the IBM System/360 Disk Operating System On-Line Test  
Executive Program (OLTEP). It is for persons involved in  
program maintenance and programmers who are altering the  
program design.  
For titles and abstracts of associated publications,  
see the IBM SYSTEM/360 AND SYSTEM/370 BIBLIOGRAPHY  
(GA22-6822).
- GY26-3598  
IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER (32K)  
PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 360S-AS-036  
A Program Logic Manual describes the internal design or  
logic of the subject program. These manuals are intended  
for persons involved in program maintenance and system  
programmers who are altering the program design. Program  
logic information is not necessary for the operation of  
the program; therefore, distribution of these publications  
is limited to persons with maintenance and alteration  
requirements.
- GY26-3642  
IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS ASSEMBLER (D)  
PROGRAM NUMBER 360M/N-AS-465  
This publication describes the internal logic of the D

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- Assembler for the IBM System/360 Disk and Tape Operating Systems. It is intended for use by persons involved in program maintenance, and by systems programmers who are altering the program design.
- GY26-3700  
IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER (F) PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-AS-037  
This publication describes the internal logic of the F Assembler for the IBM System/360 Operating System/ It is intended for use by persons involved in program maintenance and by system programmers who are altering the program design.
- GY26-3701  
IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEM REPORT PROGRAM GENERATOR PROGRAM NUMBERS 360N-RG-460 (DISK) 360M-RG-408 (TAPE)  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY26-3704  
IBM SYSTEM/360 OPERATING SYSTEM REPORT PROGRAM GENERATOR PROGRAM NUMBER 360S-RG-038  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY26-3716  
IBM SYSTEM/360 DISK OPERATING SYSTEM ASSEMBLER (F) PROGRAM NUMBER 360N-AS-466  
This publication describes the internal logic of the (64K) Assembler for the IBM System/360 Disk Operating System. It is intended for use by people involved in program maintenance and by system programmers who are altering the program design. Since program logic information is not necessary for the use and operation of the Assembler, distribution of this publication is limited to these people.
- LY26-3737  
IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION ASSEMBLER PROMPTER PROGRAM LOGIC MANUAL PROGRAM NUMBER 5734-CP2  
This manual describes the assembler prompter, a program product that operates only under the Time Sharing Option (TSO) of the IBM System/360 Operating System.  
The assembler prompter consists of two modules that interact with the TSO terminal monitor program (TMP), the parse service routine (IKJPARS), the dynamic allocation interface routine (IKJDAIR), the PUTLINE service routine, and the stack service routine. This manual discusses how the assembler prompter interacts with these routines to analyze the ASM command and to allocate data sets required by the assembler. It also discusses how the prompter passes control to the assembler.  
The manual assumes that the reader knows the ASM command, its operands, and how to use the command as described in the IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION ASSEMBLER PROMPTER USER'S GUIDE (SC26-3740). The book also assumes that the reader is familiar with the assembler language and the concepts of TSO as described in: IBM SYSTEM/360 OPERATING SYSTEM: ASSEMBLER LANGUAGE (GC28-6514)  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION GUIDE (GC28-6698)  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION COMMAND LANGUAGE REFERENCE (GC28-6732)  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION GUIDE TO WRITING A TERMINAL MONITOR PROGRAM OR A COMMAND PROCESSOR (GC28-6764)  
This manual is intended for people involved in program maintenance, and its distribution is limited to licensees doing maintenance work. Program logic information is not necessary to use the program.
- GY26-3741  
IBM SYSTEM/360 OPERATING SYSTEM DOS EMULATOR PROGRAM ON IBM SYSTEM/360 MODELS 135, 145, AND 155 PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360C-EU-738  
This publication describes the internal logic of the DOS Emulator program under the IBM System/360 Operating System on IBM System/370 Models 135, 145, and 155. The DOS Emulator is a combination of the DOS Emulator processing program and the DOS Compatibility feature. The relationship of the program logic to that of the DOS Compatibility feature is described. This publication is written as a guide to and for use with the program listing. It is intended for use by persons involved in program maintenance, and systems programmers who are altering the program design.
- LY26-3760  
IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5734-AS1  
This publication describes the internal logic and operation of Assembler H running under the IBM System/360 Operating System. In addition to descriptive text, this publication contains detailed flowcharts, figures showing the formats of internal tables and data areas, a microfiche directory, and a number of appendixes containing related reference documentation.  
Program Logic Manuals are intended for IBM Customer Engineers concerned with program maintenance or alteration, and system programmers concerned with system design.  
The reader should be familiar with the IBM System/360 Operating System and with the functions of an assembler.
- GY26-3766  
IBM 2740/2968 AUDIO-VISUAL CONTROL PROGRAM LOGIC MANUAL SEQ NUMBER F30209  
This manual is for customer engineers, field engineers, or others maintaining the au (audio) and fv (visual) functions. These functions operate under Coursewriter III, Version 2, Modification 2 or newer and support the attachment of a 2968, model 11, audio-visual control unit to a 2740, model 1 remote terminal.
- GY27-7103  
IBM SYSTEM/360 CONVERSION AIDS: THE 1401/1460 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 40 PROGRAM LOGIC MANUAL  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.
- GY27-7108  
IBM SYSTEM/360 TRANSITION AIDS: COBOL LANGUAGE CONVERSION PROGRAM (1401-CB-701) FOR THE IBM 1401 PROGRAM LOGIC MANUAL  
This publication describes the internal logic of the COBOL Language Conversion Program for the IBM 1401, which is used as a transition aid to IBM System/360. It is intended for use by persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the use and operation of the program; therefore, distribution of this publication is limited to those with the aforementioned requirements.
- GY27-7110  
IBM SYSTEM/360 OPERATING SYSTEM GRAPHICS PROBLEM ORIENTED ROUTINES (360S-IO-523) PROGRAM LOGIC MANUAL  
This publication describes the internal logic of problem oriented routines associated with the graphic programming services of System/360 Operating System and intended for use with the IBM 2250 Display Unit.  
This program logic manual is intended for use with appropriate program listings. Its primary purpose is to serve as a guide to the program listings with which it is used.  
It is provided for persons involved in program maintenance, and system programmers who are altering the program design. Program logic information is not necessary for the use and operation of the program; therefore, distribution of this publication is limited to those with the aforementioned requirements.
- GY27-7111  
IBM SYSTEM/360 CONVERSION AIDS: THE 7074 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODELS 50 AND 65 PROGRAM LOGIC MANUAL PROGRAM NUMBER 360C-EU-725  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended

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for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.

GY27-7113

IBM SYSTEM/360 OPERATING SYSTEM: GRAPHIC ACCESS METHOD PROGRAM NUMBER 360S-IO-523

This publication describes the internal logic of the Graphics Access Method (GAM) for the IBM 2250 Display Unit, Models 1, 2, and 3, the IBM 2260 Display Station (Local Attachment), and the IBM 2280/82 Film Units. Since GAM functions in both express and basic attention handling environments, both types of routines are described. Areas of the program that perform specific functions are identified and related to the program listings.

The Graphics Access Method consists of input/output and control routines which are part of the graphic programming services for the devices mentioned above. The GAM routines serve three major functions.

- Graphic Data Management (including Buffer Management)
- Input/Output Control
- Attention Handling

This program logic manual is directed to the IBM customer engineer, who maintains the program, and the system programmer, who may wish to alter the program design. It should be used in conjunction with, and as a guide to, the appropriate program listings. Program logic information is necessary for program operation and use.

GY27-7115

IBM SYSTEM/360 CONVERSION AIDS: THE 1410/7010 SIMULATOR FOR IBM SYSTEM/360, PROGRAM NUMBER 360C-SI-754  
PROGRAM LOGIC MANUAL

A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.

GY27-7116

IBM SYSTEM/360 CONVERSION AIDS: THE 1620 SIMULATOR FOR IBM SYSTEM/360, PROGRAM NUMBER 360C-SI-752  
PROGRAM LOGIC MANUAL

A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.

GY27-7117

IBM SYSTEM/360 CONVERSION AIDS: THE 7070/7074 SIMULATOR FOR IBM SYSTEM/360, PROGRAM NUMBER 360C-SI-753  
PROGRAM LOGIC MANUAL

A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.

GY27-7118

IBM SYSTEM/360 CONVERSION AIDS: THE 7080 SIMULATOR FOR IBM SYSTEM/360, PROGRAM NUMBER 360C-SI-751  
PROGRAM LOGIC MANUAL

A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.

GY27-7119

IBM SYSTEM/360 CONVERSION AIDS: THE 7090/7094 SIMULATOR FOR IBM SYSTEM/360, PROGRAM NUMBER 360C-SI-750  
PROGRAM LOGIC MANUAL

A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of

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the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.

GY27-7126

IBM SYSTEM/360 MODEL 30 1620 EMULATOR PROGRAM PROGRAM LOGIC MANUAL PROGRAM NUMBER 360C-EH-731

A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.

GY27-7128

IBM SYSTEM/360 OPERATING SYSTEM JOB MANAGEMENT WITH MFT PROGRAM LOGIC MANUAL

This publication describes the internal logic of the MFT level of job management, its functions, and the control flow among its routines, as MFT job management differs from MVT job management. Included are discussions of system initialization, input stream processing, job initiation and termination, system output processing, command scheduling and execution, and work queue management.

Knowledge of the information in the following publications is required for a full understanding of this manual:

IBM SYSTEM/360 OPERATING SYSTEM: MFT GUIDE  
GC27-6939

IBM SYSTEM/360 OPERATING SYSTEM: MVT JOB MANAGEMENT PROGRAM LOGIC MANUAL, GY28-6600

This manual is intended for persons involved in program maintenance, and system programmers who are altering the program design. Program logic information is not necessary for use and operation of the program.

The information for TSO and TCAM and Model 165 is for planning purposes only.

GY27-7152

IBM SYSTEM/360 OPERATING SYSTEM GRAPHIC SUBROUTINE PACKAGE (GSP) FOR FORTRAN IV, COBOL, AND PL/I PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-LM-537

A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.

GY27-7155

IBM SYSTEM/360 OPERATING SYSTEM MACHINE CHECK HANDLER FOR IBM SYSTEM/360 MODEL 65 PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-DN-539

The Machine-Check Handler reduces the number and minimizes the impact of unscheduled system interruptions resulting from machine-check interruptions in multiprocessing environments of the IBM System/360 Operating System. The program is designed for use with the uniprocessing and multiprocessing (partitioned or multisystem modes) systems of the IBM System/360 Model 65 only. This publication describes the program logic associated with the Machine-Check Handler error recovery operations.

GY27-7159

IBM SYSTEM/360 OPERATING SYSTEM: GRAPHIC JOB PROCESSOR SUPPORT - PROGRAM NUMBER 360S-RC-541  
This publication describes the internal logic of the Graphic Job Processor (GJP) and the Graphics Interface Task (GFX), which are features of the IBM System/360 Operating System that permit jobs to be defined and initiated by responding to frames displayed on an IBM 2250 Display Unit.

This program logic manual is to be used with the program assembly listings and is primarily a guide to those listings. It is intended for personnel involved in program maintenance and for system programmers who are altering the program design. Program logic information is not necessary for the operation of the program.

GY27-7161

SYSTEM/360-1130 DATA TRANSMISSION FOR FORTRAN PROGRAM LOGIC MANUAL PROGRAM NUMBERS 360S-LM-542, 1130-LM-011

A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system

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programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.

the emulator.

This publication is a reference manual for persons responsible for emulator program maintenance. Readers should be experienced with the IBM 709, 7090, 7094, or 7094 II Data Processing System, and have a working knowledge of the MFT or MVT configuration of the IBM System/360 Operating System.

GY27-7164

IBM SYSTEM/360 DISK OPERATING SYSTEM 1401/1440/1460  
EMULATOR PROGRAM COMPATIBILITY SUPPORT/30  
PROGRAM NUMBER 360N-EU-484  
This publication describes the internal logic of the Emulator Program for Compatibility Support/30. This support allows 1401, 1440, and 1460 object programs to be executed under the control of the Disk Operating System on the IBM System/360 Models 25 and 30. The relationship of the program logic to that of the required machine support is discussed, as is the interface with the Disk Operating System. This publication is written as a guide to, and for use with, the program listing. It is intended for use by persons involved in program maintenance, and systems programmers who are altering the program design. Program logic information is not necessary for the use and operation of the program.

GY27-7198

IBM SYSTEM/360 OPERATING SYSTEM: MACHINE-CHECK HANDLER FOR SYSTEM/370 MODELS 155 AND 165 - PROGRAM LOGIC MANUAL  
This manual describes the internal operations of the Machine-Check Handler (MCH) for the IBM System/370 Models 155 and 165. MCH is a standard component of the MFT and MVT versions of System/360 Operating System when used with the Models 155 and 165. This manual is written for persons who maintain the program or who are altering the program's design. Its primary purpose is to serve as a guide to the program listings.

GY27-7165

IBM SYSTEM/360 DISK OPERATING SYSTEM  
1401/1440/1460 EMULATOR PROGRAM  
COMPATIBILITY SUPPORT/40 PROGRAM NUMBER 360N-EU-485  
This publication describes the internal logic of the IBM 1401/1440/1460 Emulator Program under the Disk Operating System. The relationship of Compatibility Support/40 to the IBM 1401/1460 Compatibility Feature (#4457), the IBM 1311 Disk Compatibility Feature (#9710), and the IBM 1401/1440/1460 DOS Compatibility Feature (#4460) for the IBM System/360 Model 40 is discussed. The interface of the program with the Disk Operating System is described. Written for use with the program listing, this publication is intended to be used by persons maintaining the program and by systems programmers altering the program design. Program logic information is not necessary for the use and operation of the program; distribution is therefore limited to persons maintaining or altering the program.

GY27-7199

IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION (TSO) CONTROL PROGRAM PROGRAM NUMBER 360S-CI-555  
This document describes the internal logic of the System/360 Operating System Time Sharing Option (TSO). TSO adds general purpose time-sharing to the facilities already available through the MVT configuration of the OS/360 control program. This manual is written for customer engineers who are maintaining the program and system programmers who are altering the design of the program. Its primary purpose is to serve as a guide to the program listings. This manual describes the data management, job management and task management functions performed to enable TSO users to execute programs.

GY27-7166

IBM SYSTEM/360 OPERATING SYSTEM AND 1130 DISK MONITOR SYSTEM  
SYSTEM/360 JOB PROCESSING FROM A REMOTE 1130/2250 SUBSYSTEM  
PROGRAM LOGIC MANUAL PROGRAM NUMBERS 360S-RC-543,  
1130-CO-012  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.

GY27-7228

PROGRAM TO EMULATE THE IBM 7074 ON THE IBM SYSTEM/370  
MODEL 165 USING OS/360 - PROGRAM NUMBER 360C-EU-739  
MODEL 165 USING OS/360 - PROGRAM NUMBER 360C-EU-739  
This publication describes the internal logic of the IBM 7074 Emulator Program for the IBM System/370 Model 165. The emulator program is a problem program that executes under the MFT or MVT configuration of the IBM System/360 Operating System. The IBM Compatibility Feature #7117 must be installed on the Model 165.

GY27-7184

IBM SYSTEM/360 OPERATING SYSTEM: MACHINE-CHECK HANDLER FOR  
IBM SYSTEM/360 MODEL 85 - PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 360S-DN-539  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.

GY27-7229

PROGRAM TO EMULATE THE IBM 7080 ON THE IBM SYSTEM/370  
MODEL 165 USING OS/360 - PROGRAM NUMBER 360C-EU-737  
This manual describes the internal logic of the IBM 7080 Emulator Program for the IBM System/370 Model 165. The emulator program is a problem program that executes under the MFT and MVT configuration of the IBM System/360 Operating System. The IBM Compatibility Feature #7118 must be installed on the Model 165.

MCH is a Recovery Management Support facility and provides the following error recovery functions:

1. Identification and analysis of the machine malfunction.
2. Repair of the damage and/or termination of the affected task.
3. Recording of the failure.
4. Control of machine status.

GY27-7187

EMULATOR PROGRAM TO EMULATE THE 7094 ON MODELS 65 AND 165  
USING OS/360 - PROGRAM NUMBERS 360C-EU-734, 360C-EU-740  
This manual describes the internal logic of the IBM 709/7090/7094/7094 II Emulator Program for the IBM System/370 Model 165. The emulator program is a problem program that executes under the MFT and MVT configurations of the IBM System/360 Operating System. The IBM Compatibility Feature #7119 must be installed on the Model 165. The emulator program executes object programs written for the IBM 709, 7090, 7094, or 7094 II Data Processing System. Major topics are the logic of the emulator program; the relationship among the emulator program, the compatibility feature, and the operating system; and the logic of tape formatting programs used in conjunction with

The publication contains six sections and one appendix. The first two sections provide introductory information and organize the emulator by the functions it performs. The next four sections provide detailed information on organization, logic, and debugging. The appendix provides both introductory and detailed information on two tape formatting programs provided with the emulator.

This publication is a reference manual for persons responsible for emulator program maintenance. Readers should be experienced with the IBM 7074 Data Processing System and have a working knowledge of the MFT or MVT configuration of the IBM System/360 Operating System.

GY27-7236

IBM SYSTEM/360 OPERATING SYSTEM MFT SUPERVISOR  
This publication describes the internal logic of the MFT Supervisor. The MFT Supervisor is one part of the control program of the IBM System/360 Operating System. The publication provides an introduction to control program logic and describes the supervisor components of the

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program. Specifically, the publication describes:

- Interruption Supervision
- Task Supervision
- Task Termination
- Contents Supervision
- Main Storage Supervision
- Communications Task
- Timer Supervision
- Overlay Supervision
- Recording/Recovery Interface
- Checkpoint/Restart
- Device Independent Display Operator Console Support

GY27-7237  
IBM SYSTEM/360 OPERATING SYSTEM MACHINE-CHECK HANDLER FOR IBM SYSTEM/370 MODELS 135 AND 145 PROGRAM LOGIC MANUAL - PROGRAM NUMBER 3605-DN-539  
 This manual describes the internal operations of the Machine-Check Handler (MCH) for the IBM System/370 Models 135 and 145. MCH is a standard component of the MPT version of the System/360 Operating System when used with the Model 135 or the Model 145.  
 This manual is written for persons who maintain the program or who are altering the program's design. Its primary purpose is to serve as a guide to the program listings.

GY27-7238  
IBM 7074 OPERATING SYSTEM EMULATOR ON SYSTEM/370 MODEL 155 LOGIC MANUAL - PROGRAM NUMBER 360C-EU-741  
 This manual describes the internal logic of the IBM 7074 Emulator Program for the IBM System/370 Model 155. The emulator program is a problem program that executes under the MPT or MVT configuration of the IBM System/360 Operating System. The IBM Compatibility Feature #7117 must be installed on the Model 155.  
 This manual describes how the emulator program executes object programs written for the IBM 7074 Data Processing System. Major topics are the logic of the emulator program; the relationship among the emulator programs, the compatibility feature, and the operating system; the logic of the tape formatting programs used in conjunction with the emulator and the logic of the compatibility feature.  
 This publication is a reference manual for persons responsible for maintenance of the emulator program, tape formatting programs, and compatibility feature. Readers should be experienced with the IBM 7074 Data Processing System and have a working knowledge of the MPT or MVT configuration of the IBM System/360 Operating System.

GY27-7245  
SYSTEM/360 DOS VERSION 4 BASIC TELECOMMUNICATIONS ACCESS METHODS - PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360N-CQ-469  
 This publication describes the internal logic of the Basic Telecommunications Access Method (BTAM) in Version 4 (Release 27) of the Disk Operating System (DOS). It is intended for persons involved in program maintenance and for systems programmers who are altering the program design. It can be used to help locate BTAM application program errors.  
 This publication contains:
 

- o An overview of BTAM logic
- o A guide to specific BTAM routines by alphabetical name of the routine and by function
- o Routine descriptions and flowcharts

 This information is designed to be used with the program listings.  
 The user should be familiar with how BTAM is used; this is described in the SRL publication, DOS Version 4 Basic Telecommunications Access Method, GC27-6978.

GY28-2009  
IBM SYSTEM/360 TIME SHARING SYSTEM SYSTEM LOGIC SUMMARY PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360G-CL-627  
 This publication describes the logic of the IBM System/360 Time Sharing System (TSS/360). The emphasis is on describing the interrelationship of system components in performing system functions. Where an individual component is described, only the highest level of logic is discussed.  
 This program logic manual is directed to the IBM customer engineer who is responsible for program maintenance. It can be used to determine the interrelationship among the various areas of the system, and it enables the reader to relate these areas to the corresponding program logic manuals.

GY28-2011  
IBM SYSTEM/360 TIME SHARING SYSTEM SYSTEM CONTROL BLOCKS PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360G-CL-627  
 This publication documents all control blocks which are a part of the IBM System/360 Time Sharing System (TSS/360). Each control block is described in terms of its function, size, residence, and use by the rest of the system. A diagram gives a graphic picture of each block, and a DSPECT

listing shows all fields and includes comments on individual fields.  
 Program Logic Manuals are intended for use by IBM customer engineers involved in program maintenance, and by system programmers involved in altering the program design. Program logic information is not necessary for program operating and use.

GY28-2012  
IBM SYSTEM/360 TIME SHARING SYSTEM: RESIDENT SUPERVISOR PROGRAM LOGIC MANUAL  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.

GY28-2013 \*N  
TIME SHARING SYSTEM/360 COMMAND LANGUAGE PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360G-CL-627  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.

GY28-2014  
IBM SYSTEM/360 TIME-SHARING SYSTEM PROGRAM CONTROL SYSTEM PROGRAM LOGIC MANUAL  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.

GY28-2015  
IBM SYSTEM/360 TIME SHARING SYSTEM: SYSTEM GENERATION AND MAINTENANCE PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.

GY28-2016  
IBM SYSTEM/360 TIME SHARING SYSTEM ACCESS METHODS PROGRAM LOGIC MANUAL  
 This publication describes the internal logic of the queued, basic, multiple, virtual, and terminal access methods programs. These programs provide the processing required to perform Input/Output operations for the user. Also discussed are: general data set handling such as OPEN and CLOSE functions, and specific GET/PUT and READ/WRITE operations on data sets of sequential, indexed sequential, and partitioned organization.  
 This program logic manual is directed to the IBM customer engineer who is responsible for program maintenance. It can be used to locate specific areas of the program, and it enables the reader to relate these areas to the corresponding program listings. Program logic information is not necessary for program operation and use.

GY28-2018  
IBM SYSTEM/360 TIME SHARING SYSTEM: SYSTEM SERVICE MANUAL PROGRAM LOGIC MANUAL  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.

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- GY28-2019  
IBM SYSTEM/360 TIME SHARING SYSTEM: FORTRAN IV COMPILER PROGRAM LOGIC MANUAL  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.
- GY28-2020  
IBM SYSTEM/360 TIME SHARING SYSTEM FORTRAN IV LIBRARY SUBPROGRAMS PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 360G-CL-627  
 This publication describes the internal logic of the IBM System/360 Time Sharing System FORTRAN IV mathematical and I/O libraries, including the mathematical, service, and I/O routines.  
 This program logic manual is directed to the IBM customer engineer who is responsible for program maintenance. It can be used to locate specific areas of the program, and it enables the reader to relate these areas to the corresponding program listings. Because program logic information is not necessary for program operation and use, distribution of this manual is restricted to persons with program-maintenance responsibilities.
- GY28-2021  
IBM SYSTEM/360 TIME-SHARING SYSTEM ASSEMBLER PROGRAM LOGIC MANUAL  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-2022  
IBM SYSTEM/360 TIME SHARING SYSTEM TIME SHARING SUPPORT SYSTEM - PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 360G-CL-627  
 This publication describes the internal logic of the IBM System/360 Time Sharing Support System. This program logic manual is directed to the IBM customer engineers involved in program maintenance, and to the system programmers involved in altering the program design. It can be used to locate specific areas of the program, and it enables the reader to relate these areas to the corresponding program listings. Program logic information is not necessary for program operation and use.
- GY28-2030  
IBM SYSTEM/360 TIME-SHARING SYSTEM LINKAGE EDITOR PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-2031  
IBM SYSTEM/360 TIME SHARING SYSTEM: DYNAMIC LOADER PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.
- GY28-2039  
IBM SYSTEM/360 TIME-SHARING SYSTEM INDEPENDENT UTILITIES PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-2041  
IBM SYSTEM/360 TIME SHARING SYSTEM TASK MONITOR PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360G-CL-627  
 This program logic manual is directed to the IBM customer engineer who is responsible for program maintenance. It can be used to locate specific areas of the program, and it enables the reader to relate these areas to the corresponding program listings. Program logic information is not necessary for program operation and use.
- GY28-2042  
IBM SYSTEM/360 TIME SHARING SYSTEM: ON-LINE TEST CONTROL SYSTEM PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.
- GY28-2047  
IBM SYSTEM/360 TIME SHARING SYSTEM OPERATOR TASK AND BULK I/O - PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 360G-CL-627  
 This publication describes the internal logic of the Operator Task, Batch Monitor, BULKIO Preprocessor, BULKIO Task, and certain command and macro instruction processing routines associated with the above tasks, for IBM System/360 Time Sharing System (TSS/360). It is intended for use as a guide to the appropriate program listings.  
 This program logic manual is directed to the IBM customer engineer responsible for program maintenance. It can be used to locate specific areas of the program, and it enables the reader to relate these areas to the corresponding program listings. Program logic information is not necessary for program operation and use.
- GY28-2051  
IBM SYSTEM/360 TIME SHARING SYSTEM PL/I COMPILER PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627  
 This publication describes the internal logic of the IBM System/360 Time Sharing System PL/I Compiler. Program Logic Manuals are intended for use by IBM Customer Engineers involved in altering program design. It can be used to locate specific areas of the program and it enables the reader to relate these areas to the corresponding program listings. Program logic information is not necessary for program operators to use.
- GY28-2052  
IBM SYSTEM/360 TIME SHARING SYSTEM PL/I LIBRARY COMPUTATIONAL SUBROUTINES PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627  
 This publication describes the internal specifications of PL/I subroutine library as the system component of IBM 360 TSS. The relationships between the code produced by the TSS/360 PL/I compiler, the PL/I Library modules and the control program are described, and similarities of the properties of individual modules are provided. This information is intended for use by those involved in program maintenance and by system programmers who are altering the program design. Program logic information is not necessary for the use and operation of the program.
- GY28-6382  
IBM SYSTEM/360 OPERATING SYSTEM COBOL CFS PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-CB-524 360S-LM-525  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-6392  
IBM SYSTEM/360 DISK OPERATING SYSTEM USA STANDARD COBOL - PROGRAM LOGIC MANUAL PROGRAM NUMBER 360N-CB-482  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.

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- GY28-6394 IBM SYSTEM/360 DISK OPERATING SYSTEM FORTRAN IV PROGRAM LOGIC MANUAL PROGRAM NUMBER 360N-FO-479  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-6395 IBM SYSTEM/360 OPERATING SYSTEM: USA STANDARD COBOL - PROGRAM LOGIC MANUAL PROGRAM NUMBERS 360S-CB-545, 360S-LN-546  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.
- GY28-6397 IBM SYSTEM/360 CONVERSION AIDS: COBOL TO USA STANDARD COBOL LANGUAGE CONVERSION PROGRAM - PROGRAM LOGIC MANUAL PROGRAM NUMBERS 360N-CV-489, 360C-CV-713  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.
- LY28-6406 SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION COBOL PROMPTER PROGRAM LOGIC MANUAL, PROGRAM NUMBER 5734-CP1  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.
- LY28-6407 IBM SYSTEM/360 OPERATING SYSTEM FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY, VERSION 3 PROGRAM LOGIC MANUAL, PROGRAM NUMBER 5734-CB1  
 This publication describes the internal design of the IBM System/360 Operating System Full American National Standard COBOL, X3.23-1968 Compiler and Library, Version 3. Program logic manuals are intended for persons involved in program maintenance, or for system programmers who are altering the program design for installations that require a special purpose COBOL compiler. It is not needed for normal use or operation of the compiler described.
- LY28-6408 IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY (MODEL II) PROGRAM LOGIC MANUAL, PROGRAM NUMBER 5734-LM1  
 This document describes the internal design of the IBM System/360 Operating System FORTRAN IV Library (Model II), a program product.  
 The modules of the Model II library are designed to be combined as needed with the object code produced by the Code and Go FORTRAN or FORTRAN IV (G1) compilers to form executable load modules.  
 This document is intended for use by persons involved in program maintenance. Program logic information is not necessary for the use and operation of the Model II library.  
 Distribution of this document is limited to licensees of the IBM program product it describes.
- LY28-6409 IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY MOD II PROGRAM LOGIC MANUAL, PROGRAM NUMBER 5734-LM3  
 This document describes the internal design of the IBM System/360 Operating System FORTRAN IV Library (Model II), a program product.  
 The modules of the Model II library are designed to be combined as needed with the object code produced by the FORTRAN IV (H Extended) compiler to form executable load modules.  
 This document is intended for person involved in program maintenance; program logic information is not necessary for the use and operation of the Model II library.  
 Distribution of this document is limited to licensees of the IBM program product it describes.
- LY28-6410 IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION FORTRAN PROMPTER - PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5734-CP3  
 This publication describes the internal organization and operation of the IBM System/360 Operating System Time Sharing Option FORTRAN Prompter, a TSO Command Processor designed to facilitate the use of the FORTRAN IV (G1) compiler. The Prompter provides the terminal user with a conversational means of allocating required data sets, building a compiler option list, and invoking the compiler.  
 The reader is assumed to be familiar with the Operating System, the concepts of TSO, and the options and data set requirements of the FORTRAN IV (G1) compiler.  
 Program Logic Manuals are intended for use by IBM customer engineers involved in program maintenance, and by systems programmers involved in altering the program design. Program logic information is not necessary for program operation and use; therefore, distribution of this manual is limited to persons with program maintenance or modification responsibilities.
- LY28-6412 IBM SYSTEM/360 DISK OPERATING SYSTEM FULL AMERICAN NATIONAL STANDARD COBOL COMPILER, VERSION 3, PROGRAM LOGIC MANUAL PROGRAM NUMBER 5736-CB2  
 No abstract available.
- LY28-6413 IBM SYSTEM/360 DISK OPERATING SYSTEM FULL AMERICAN NATIONAL STANDARD COBOL SUBROUTINE LIBRARY, VERSION 3 PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5736-LM2  
 No abstract available.
- LY28-6414 IBM SYSTEM/360 DISK OPERATING SYSTEM SUBSET AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5736-CB1  
 This publication describes the internal logic of the Subset COBOL compiler and COBOL Library object time subroutines. It is intended for use by persons responsible for program maintenance, and for systems programmers who must alter program design. Therefore, distribution of this publication is limited to licensees with the aforementioned requirements.
- LY28-6415 IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H EXTENDED PLUS) COMPILER AND LIBRARY PROGRAM LOGIC SUPPLEMENT (PROGRAMMING REQUEST FOR PRICE QUOTATION) PROGRAM NUMBER 5799-AAM  
 This publication is a supplement to IBM System/360 Operating System: Fortran IV (A Extended) Compiler Program Logic Manual, Order No. LY28-6403. Together these publications provide customer engineers and other technical personnel with information describing the internal organization and operation of the FORTRAN IV (H Extended Plus) compiler.
- GY28-6564 IBM SYSTEM/360 CONVERSION AIDS: THE 1410/7010 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 40 PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360C-EU-728  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.
- GY28-6566 IBM SYSTEM/360 CONVERSION AIDS: THE 709/7090/7094/7094 II EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 65 PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360C-EV-729  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.
- GY28-6569 IBM SYSTEM/360 CONVERSION AIDS: THE 1410/7010 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 50 PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360C-EV-726  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of

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- the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.
- GY28-6597  
IBM SYSTEM/360 OPERATING SYSTEM, SORT/MERGE PROGRAM LOGIC MANUAL, (PROGRAM NUMBER 360S-SM-023)  
 This publication describes the internal logic of the IBM System/360 Operating System sort/merge program. This program logic manual is directed to the IBM customer engineer who is responsible for program maintenance. It can be used to locate specific areas of the program, and it enables the reader to relate these areas to the corresponding program listings. Because program logic information is not necessary for program operation and use, distribution of this manual is restricted to persons with program-maintenance responsibilities.  
 This version of the sort/merge program is designed to:
- Sort a data set using as intermediate storage the IBM 2400 Series (7- or 9-Tracks) Magnetic Tape Unit, or the IBM 2311 Disk Storage Drive, or the IBM 2314 Direct Access Storage Facility, or the IBM 2301 Drum Storage.
  - Merge up to 16 previously sorted data sets.
- GY28-6599  
IBM SYSTEM/360 CONVERSION AIDS: THE 7040/7044 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 65 PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360C-EU-733  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.
- GY28-6601  
IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (F) PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-FO-052  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-6604  
SYSTEM/360 OPERATING SYSTEM (OS) SEQUENTIAL ACCESS METHOD (SAM) LOGIC MANUAL - PROGRAM NUMBER 360S-DM-508  
 This manual describes the internal logic of the GET, PUT, READ, WRITE, (and associated) modules for the queued sequential access method (QSAM), the basic sequential method (BSAM), and the basic partitioned access method (MPAM) of IBM System/360 Operating System. Sequential access method (SAM) executors and appendages are also described.  
 The manual is intended for use by persons involved in program maintenance, and system programmers who are altering the program design.  
 The SAM routines used for optional character readers, magnetic character readers, and optical reader sorters are discussed in separate publications. They are indexed in the IBM System/360 and System/370 Bibliography, Order Number GA22-6622.  
 Prerequisite Publications  
 Before reading this publication, the reader should be familiar with the contents of:  
 OS MVT Guide, Order Number GC28-6720  
 OS MPT Guide, Order Number GC27-6939
- GY28-6605  
IBM SYSTEM/360 OPERATING SYSTEM: INTRODUCTION TO CONTROL PROGRAM LOGIC, PROGRAM NUMBERS 360S-CI-505 360S-DM-508  
 This publication describes the components of the primary control program (PCP) configuration of IBM System/360 Operating System and indicates the program logic manuals that describe these components. It contains general descriptions of the organization of the control program in both main and auxiliary storage, the flow of program control during a job step, the flow of control for supervisor operation, and the processing for input/output operations. Appendix A contains the names, numbers, and macro instructions associated with the IBM-supplied SVC routines.  
 This manual is intended for persons involved in program maintenance, and system programmers who are altering the program design. Program logic information is not necessary for use and operation of the program.
- GY28-6606  
IBM SYSTEM/360 OPERATING SYSTEM CATALOG MANAGEMENT PROGRAM LOGIC MANUAL  
 This manual provides detailed information on catalog management routines. These routines record identification of volumes used by data sets by maintaining information in logical records called indexes. The functions and structures of the routines are described, as are their relationships to other portions of IBM System/360 Operating System. This manual also describes the structure of catalog data sets that contain the indexes processed by catalog management routines.
- GY28-6607  
SYSTEM/360 OPERATING SYSTEM - DIRECT ACCESS DEVICE SPACE MANAGEMENT ROUTINES - LOGIC MANUAL  
 Provides detailed information about the direct-access device space management (DADSM) routines. The DADSM routines allocate and release space on a direct-access storage volume by altering the volume table of contents. This publication describes how these routines operate and how they relate to each other and to the control program (OS); it also describes data set control blocks, which make up the volume table of contents.  
 The intended audience is persons who maintain the DADSM routines and system programmers who wish to alter the design of these routines. Cross-references to module names and to labels within each module of the DADSM routines are provided, as are descriptions of data areas, and methods of diagnosing DADSM problems.
- GY28-6609  
IBM SYSTEM/360 OPERATING SYSTEM INPUT/OUTPUT SUPPORT (OPEN/CLOSE/EQV) PROGRAM LOGIC MANUAL  
 This Program Logic Manual describes the internal logic of the routines of the queued sequential access method, the basic sequential access method, and the basic partitioned access method of the IBM System/360 Operating System. The sequential access method routines used for optical character readers, magnetic character readers, and optical reader sorters are discussed in separate publications relating to these devices. They are indexed in the IBM SYSTEM/360 BIBLIOGRAPHY, Order No. GA22-6622. Program Logic Manuals are intended for use by persons involved in program maintenance, and by system programmers who are altering the program design. Program logic information is not necessary for program operation and use.  
 This book contains information about the time-sharing option (TSO), which is not yet available. The information should be used only for planning purposes until the time-sharing option becomes available.
- GY28-6610  
IBM SYSTEM/360 OPERATING SYSTEM LINKAGE EDITOR PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-ED-510 (LEVEL E)  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-6611  
IBM SYSTEM/360 OPERATING SYSTEM TESTRAN PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-PT-516  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.
- GY28-6612  
IBM SYSTEM/360 OPERATING SYSTEM FIXED TASK SUPERVISOR PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-CI-505  
 This publication describes the internal logic of the Primary Control Program (PCP) Supervisor. The PCP Supervisor is a part of the IBM System/360 Operating System control program. The PCP Supervisor performs the following task management functions:  
 Interruption Supervision  
 Task Supervision  
 Main Storage Supervision  
 Contents Supervision  
 Program Fetch  
 Overlay Supervision  
 Time Supervision  
 System Environment Recording  
 Checkpoint/Restart  
 This manual is intended for use by persons involved in

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- program maintenance, or system programmer who are altering the program design; it is not needed for normal use or for operation of the program described.
- GY28-6613  
IBM SYSTEM/360 OPERATING SYSTEM: JOB MANAGEMENT PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-CI-505  
This publication describes the internal logic within the job management portion of the IBM System/360 Operating System Primary Control Program. Job management prepares jobs for execution, and directs the disposition of data sets created during job execution. It also handles all communication between the operator and the primary control program. Included in the publication are descriptions of tables and work areas used by the job management routines and a directory of names and purposes of control sections assembly modules, and load modules.  
The information contained in this publication applies only to the primary control program.  
This manual is intended for persons involved in program maintenance, and system programmers who are altering the program design. Program logic information is not necessary for use and operation of the program.
- GY28-6614  
IBM SYSTEM/360 OPERATING SYSTEM: UTILITIES, PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-UT-506  
This publication describe the internal logic of the utility programs provided for the IBM System/360 Operating System:  
- System utilities, which are executed under the operating system to manipulate system data sets such as catalogs.  
- Data set utilities, which are executed under the operating system to work with data sets at the logical-record level.  
- Independent utilities, which are executed outside of the operating system to dump, restore, and recover data, and to initialize and assign alternate tracks on direct access devices.  
In addition to descriptive text, this publication contains flowcharts of the programs, figures showing the formats of the major tables and records, and an appendix that lists the modules of the utility programs.  
This manual is intend for persons involved in program maintenance, and system programmers who are altering the program design. Program logic information is not necessary for use and operation of the program.  
Information concerning Model 195 support is for planning purposes only.
- GY28-6616  
SYSTEM/360 OPERATING SYSTEM/OS INPUT/OUTPUT (I/O) SUPERVISOR LOGIC MANUAL - PROGRAM NUMBER 360S-CI-505  
This publication describes the input/output supervisor, which consists of the control program routines that carry on input/output activity for the Operating System. Input/output supervisor routines start, monitor, and where necessary, restart activity on input/output devices. Following an introduction, there is a method of operation section in this publication which is organized to reflect the sequence of events that takes place when the input/output supervisor receives a request for input/output (I/O) activity:  
o Validating Input Data  
o Scheduling I/O Operations  
o Starting I/O Operations  
o Terminating I/O Operations  
o Restarting I/O Operations  
o Recording Error DTA  
The remaining sections of this publication support the method of operation section, and include descriptions of program organization, directories for PLM-to-listing and listing-to-PLM transitions, descriptions of data areas, diagnostic aids, and appendices.  
This manual is intended for persons involved in program maintenance, and system programmers who are altering the program design. Program logic information is not necessary for the use and operation of the program.
- GY28-6617  
SYSTEM/360 OPERATING SYSTEM BDAM LOGIC MANUAL PROGRAM NUMBER 360S-DM-509  
This book describes the internal logic of the basic direct access method (BDAM). It is intended as a reference book for programming support representatives and system programmers maintaining BDAM routines and for customer programmers modifying BDAM routines.  
A general understanding of data management is prerequisite knowledge for understanding the information in this book. See Data Management Services Guide, GC26-3746, for background information on data management.
- GY28-6618  
SYSTEM/360 OPERATING SYSTEM ISAM LOGIC MANUAL PROGRAM NUMBER 360S-IO-526  
Describes the program logic of the queued indexed sequential access method and the basic indexed sequential access method (BISAM). Discusses the relationship of indexed sequential access method routines with other parts of the control program.
- GY28-6638  
IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (C) COMPILER PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-FO-520  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-6642  
IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H) COMPILER PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-FO-500  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-6645  
IBM SYSTEM/360 DISK OPERATING SYSTEM TAPE AND DISK SORT/MERGE PROGRAM LOGIC MANUAL PROGRAM NUMBER 360N-SM-483  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-6651  
IBM SYSTEM/360 OPERATING SYSTEM RELEASE 20 ON/LINE TEST EXECUTIVE PROGRAM PLM PROGRAM NUMBER 360S-DN-533  
No abstract available.
- GY28-6659  
IBM SYSTEM/360 OPERATING SYSTEM MVT SUPERVISOR PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-CI-535  
This publication describes the internal logic of the MVT supervisor. The MVT supervisor is one part of the control program of the IBM System/360 Operating System. The supervisor controls the basic computing system and programming resources needed to perform several data processing tasks concurrently. Specifically, it was designed to:  
1) Handle interruptions  
2) Supervise tasks  
3) Control programs in main storage  
4) Control main storage itself  
5) Supervise the timer  
6) Supervise console communications and the system log  
7) Handle checkpoint restarts  
8) Supervise exiting procedures  
9) Supervise termination procedures  
Program Logic Manuals are intended for use by IBM customer engineers involved in program maintenance, and by system programmers involved in altering the program design. Program logic information is not necessary for program operation and use.  
The information in this publication applies only to systems capable of multiprogramming with a variable number of tasks (MVT). Information concerning Model 195 support is for planning purposes only.
- GY28-6660  
IBM SYSTEM/360 OPERATING SYSTEM: MVT JOB MANAGEMENT, PROGRAM LOGIC MANUAL, PROGRAM NUMBER 360S-CI-535  
This publication describes the internal logic of the Job Management routines for the MVT control program of the IBM System/360 Operating System. Included are discussions of input stream processing, work queue management, job initiation and termination, I/O device allocation, system output processing, and the scheduling and execution of operator commands.  
This manual is intended for persons involved in program maintenance, or system programmers who are altering the program design; it is not necessary for use and operation of the program.

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- GY28-6661  
IBM SYSTEM/360 OPERATING SYSTEM INITIAL PROGRAM LOADER AND NUCLEUS INITIALIZATION PROGRAM PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-CI-535  
 This publication presents the internal logic of the IBM System/360 Operating System Initial Program Loader and Nucleus Initialization Program and is to be used as a guide to the program listings. The operation of the Nucleus Initialization Program in each of the three control program environments (PCP, HPT, HVT) is described in the section dealing with the Nucleus Initialization Program. Additional initialization procedures for multiprocessing systems are included. The table, work areas, and control blocks are illustrated in the publication, as well as flowcharts illustrating the logic flow of the Initial Program Loader and the Nucleus Initialization Program.  
 This publication is intended for personnel involved in program maintenance and system programmers who are altering the system design. Program logic information is not necessary for the use and operation of the control program.
- GY28-6667  
IBM SYSTEM/360 OPERATING SYSTEM LINKAGE EDITOR (PL) PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-EP-521  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-6688  
INTERNAL LOGIC MANUAL FOR THE IBM 2947-4 CHECK COLLECTION CONTROLLER SEQUENTIAL ACCESS METHOD - PROGRAM SUPPORT RPQ 888264 - PROGRAM NUMBERS 5799-WAF 5799-WAG  
 This publication describes the internal logic of the Check Collection Sequential Access Method (CSAM) program, which contains the data-management macro instructions and services for the IBM 2947 Model 4 Check Collection Controller. CSAM can be used with either the IBM Operating System/360 or the Disk Operating System/360.  
 To explain their differences and similarities, this publication has text introductions, method of operation diagrams, flowcharts, data-area formats, program organization and descriptions.
- LY28-6696  
IBM SYSTEM/360 DISK OPERATING SYSTEM: TAPE AND DISK SORT/MERGE PROGRAM - PROGRAM NUMBER 5736-SH1 (PROGRAM NUMBER 5736-SH1)  
 This publication describes the internal logic of the IBM System/360 Disk Operating System Tape and Disk Sort/Merge Program. It describes the functions performed by specific areas of the program and is intended for persons involved in program maintenance, and system programmers who are altering the program design, program logic information is not necessary for use and operation of the program. In addition to the functional descriptions, this publication contains flowcharts, a microfiche directory, table layouts, and diagnostic aids.
- GY28-6714  
IBM SYSTEM/360 OPERATING SYSTEM LOADER - PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360C-LD-547  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.  
 The loader functions a processing program to combine and link input subject and load modules in main storage and to pass control directly to the loaded program for its execution. This publication identifies areas of the program that perform specific functions and relates those areas to the program listing.
- GY28-6717  
IBM SYSTEM/360 OPERATING SYSTEM PROGRAM LOGIC MANUAL MASTER INDEX  
 This publication consolidates the indexes of program logic manuals for the IBM System/360 Operating System. It also provides a reading plan for program logic manuals.  
 The master index lists topics alphabetically, and refers to manuals where these topics are discussed. The indexes of these manuals list the same topics and refer to specific pages.
- GY28-6721  
IBM SYSTEM/360 OPERATING SYSTEM: SERVICE AIDS PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-DN-554  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.
- GY28-6745  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION CATALOG MANAGEMENT, PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-DN-508  
 This publication provides customer engineers and other technical personnel with information describing the internal organization and logic of the catalog management routines that are used when the Time Sharing Option has been selected at system generation time. These routines provide the facility of locating data sets when only data set names are specified.  
 This manual is based on the IBM SYSTEM/360 OPERATING SYSTEM CATALOG MANAGEMENT PROGRAM LOGIC MANUAL, GY28-6686. It should be used in place of the above manual only if the Time Sharing Option has been specified at system generation time.
- SY28-6746  
IBM 2969 PROGRAMMABLE TERMINAL INTERCHANGE MODEL 1 CONTROL PROGRAM DESIGN SPECIFICATIONS SUPPORTING RPQ 888117  
 This publication contains the design specifications for the IBM 2969 Programmable Terminal Interchange Model 1, Control Program (APTIOS). The specifications are arranged by area according to a cross-reference number. Thus, the specifications dealing with a particular system area (e.g., ILP/Restate/Initialization) are found in one section of the manual. Within each section, the specifications are arranged in sequence by document number.
- LY28-6761  
IBM SYSTEM/360 OPERATING SYSTEM: DATA SET UTILITIES SUPPORT FOR ASCII - LOGIC MANUAL, PROGRAM PRODUCT 5734-UT2  
 This publication describes the internal logic of the System/360 Operating System data set utilities that support the American National Standard Code for Information Interchange (ASCII). This support is a program product that permits users to create and maintain both ASCII and EBCDIC data sets even through all System/360 internal operations are in EBCDIC mode.  
 This publication is intended for persons involved in program maintenance, and for system programmers who are altering the program design. The information in this manual is not necessary for the use and operation of the utility programs.
- LY28-6766  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION DATA UTILITIES: COPY, FORMAT, LIST, MERGE PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5734-UT1  
 The Program Logic Manual describes the internal design or logic of the subject program. This manual is intended for persons involved in program maintenance and for system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of this publication is limited to persons with maintenance and alteration requirements.
- GY28-6770  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING SYSTEM TERMINAL MONITOR PROGRAM AND SERVICE ROUTINES OPERATING SYSTEM/360 - PROGRAM LOGIC PROGRAM NUMBER 360S-CI-555  
 This publication consists of self-contained chapters, each of which provides information on how to modify, extend, or implement the data management capabilities of the IBM System/360 Operating System control program. It is designed primarily for system programmers responsible for maintaining, updating, and extending the operating system features.  
 Topics:  
 Catalog and VTOC Maintenance  
 IECDSECT, IEFJFCBN, AND IEFUCBOB Macro Instructions  
 The EXCP Macro Instruction  
 The XDAP Macro Instruction  
 Implementing Data Set Protection  
 Adding a UCS Image to the System Library

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- GY28-6771  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION  
COMMAND PROCESSOR PROGRAM LOGIC MANUAL, VOLUME 1, ACCOUNT  
PROGRAM NUMBER 360S-CI-555  
This publication describes the internal logic of the programs that handle the ACCOUNT command and its ADD, CHANGE, DELETE, and LIST subcommands. It also describes the internal logic of the ACCOUNT SUBROUTINES AND THE ACCOUNT BROADCAST interface.  
The command processors are described with method of operation diagrams, flowcharts, and supporting text. Major data areas are shown, and directories for routines and principal data areas are provided.  
This manual is intended for persons involved in program maintenance, or systems programmers who are altering the program design; it is not intended for normal use or operation of the program described.
- GY28-6772  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION  
COMMAND PROCESSOR PROGRAM LOGIC MANUAL, VOLUME 2, ALLOCATE, CALL, CANCEL/STATUS, DELETE,  
PROGRAM NUMBERS 360S-CI-555, 360S-UT-506  
This publication describes the internal logic of the programs that handle the ALLOCATE, CALL, CANCEL/STATUS, and DELETE commands.  
The command processors are described with method of operation diagrams, flowcharts, and supporting text. Major data areas are shown, and directories for routines and principal data areas are provided.  
This manual is intended for persons involved in program maintenance, or systems programmers who are altering the program design; it is not intended for normal use or operation of the program described.
- GY28-6773  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION  
COMMAND PROCESSOR PROGRAM LOGIC MANUAL, VOLUME 3, EDIT  
PROGRAM NUMBER 360S-UL-506  
This publication describes the internal logic of the EDIT Command Processor program (Program Number 360S-UL-506). Included in this manual are discussions of the organization and method of operation of the program, a microfiche directory, tables of data layouts, flowcharts, and a glossary.  
Program Logic Manual (GY28-6770) contains prerequisite information. Corequisite publications are:  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION:  
COMMAND LANGUAGE REFERENCE (GC28-6732)  
COMMAND PROCESSOR PROGRAM LOGIC MANUAL, VOLUME 4 (GY28-6774)  
COMMAND PROCESSOR PROGRAM LOGIC MANUAL VOLUME 6 (GY28-6774)  
TSO DATA UTILITIES COPY, FORMAT, LIST, MERGE  
USER'S GUIDE AND REFERENCE MANUAL (LY28-6766)
- GY28-6774  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION  
COMMAND PROCESSOR PROGRAM LOGIC MANUAL, VOLUME 4, EXEC, FREE, HELP, LINK, LISTALC, LISTBC -  
PROGRAM NUMBERS 360S-CI-555, 360S-UT-506  
This publication describes the internal logic of the programs that handle the EXEC, FREE, HELP, LINK, LISTALC, and LISTBC commands.  
The command processors are described with method of operation diagrams, flowcharts, and supporting text. Major data areas are shown, and directories for routines and principal data areas are provided.  
This manual is intended for persons involved in program maintenance, or systems programmers who are altering the program design; it is not intended for normal use or operation of the program described.
- GY28-6775  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION  
COMMAND PROCESSOR PROGRAM LOGIC MANUAL, VOLUME 5, LISTCAT,  
LISTDS, LOADGO, OPERATOR, OUTPUT -  
PROGRAM NUMBERS 360S-CI-555, 360S-UT-506  
This publication describes the internal logic of the programs that handle the LISTCAT, LISTDS, LOADGO, OPERATOR, and OUTPUT commands.  
The command processors are described with method of operation diagrams, flowcharts, and supporting text. Major data areas are shown, and directories for routines and principal data areas are provided.  
This manual is intended for persons involved in program maintenance, or systems programmers who are altering the program design; it is not intended for normal use or operation of the program described.
- GY28-6776  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION  
COMMAND PROCESSOR PROGRAM LOGIC MANUAL, VOLUME 6, PROFILE,  
PROTECT, RENAME, RUN, SEND, SUBMIT, TERMINAL, TIME,  
WHEN/END - PROGRAM NUMBERS 360S-CI-555, 360S-UT-506  
This publication describes the internal logic of the programs that handle the PROFILE, PROTECT, RENAME, RUN, SEND, SUBMIT, TERMINAL, TIME, and WHEN/END commands.  
The command processors are described with method of operation diagrams, flowcharts, and supporting text. Major data areas are shown, and directories for routines and principal data areas are provided.  
This manual is intended for persons involved in program maintenance, or systems programmers who are altering the program design; it is not intended for normal use or operation of the programs described.
- GY28-6777  
IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION  
COMMAND PROCESSOR PROGRAM LOGIC MANUAL, VOLUME 7, TEST  
This publication describes the internal logic of the TSO Test Command Processor. It contains text introductions, method-of-operation diagrams, flowcharts, data area formats, program organization descriptions, and a module directory.  
The Test Command Processor allows a terminal user to test an assembly language problem program. The problem may be running normally in main storage, may have begun to ABEND, or may not yet have been loaded. The Test Command Processor performs the following main functions:  
o Loads the program to be tested, if it is not already in main storage  
o Interrupts the program under test at a specified location or locations, so that the user can display or patch parts of the program  
o Displays selected areas of the program in main storage or the contents of specified registers  
o Changes the contents of specified program locations in main storage or the contents of specified registers  
o Starts the program under test from its starting location, from its ABEND address, or from any other specified address  
  
This publication is written for persons who maintain or modify TSO and is not required by persons who use TSO to process programs or who write programs that are processed by TSO.
- GY28-6800  
IBM SYSTEM/360 OPERATING SYSTEM, PL/I (P) COMPILER PROGRAM  
LOGIC MANUAL, PROGRAM NUMBER 360S-ML-511  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-6801  
IBM SYSTEM/360 OPERATING SYSTEM, PL/I SUBROUTINE LIBRARY,  
PROGRAM LOGIC MANUAL, PROGRAM NUMBER 360S-LM-512  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-6811  
IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM ASSEMBLER  
PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360P-AS-616  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-6812  
IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM SUPERVISOR AND  
JOB CONTROL PROGRAM LOGIC MANUAL  
PROGRAM NUMBERS 360P-IO-613 360P-CL-614  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended

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- for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-6813  
IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM LINKAGE EDITOR PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360F-ED-615  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-6814  
IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM UTILITIES AND STAND ALONE PROGRAMS PROGRAM LOGIC MANUAL - PROGRAM NUMBERS 360F-UT-606 360F-UT-607 360F-UT-608 360F-UT-609 360F-UT-610 360F-UT-611 360F-UT-612 360F-UT-617 360F-UT-620  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-6815  
IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM FORTRAN IV COMPILER PROGRAM NUMBER 360F-FO-618  
PROGRAM LOGIC MANUAL - COMPILER PROGRAM NUMBER 360F-FO-618  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-6816  
IBM SYSTEM/360 CONVERSION AIDS 1620 SIMULATOR FOR IBM SYSTEM/360 MODEL 44 PROGRAM LOGIC MANUAL - 360C-SI-755  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY28-6831  
IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV SYNTAX CHECKER PROGRAM NUMBER 360S-FO-554  
This publication describes the internal logic of the FORTRAN IV Syntax Checker, which is a component of the IBM System/360 Operating System Conversational Remote Job Entry (CRJE). Thus, the reader is required to have a knowledge of FORTRAN IV and an understanding of the concepts and facilities of CRJE. The publication identifies areas of the syntax checker that perform specific functions and relates those areas to the program listings.  
The FORTRAN IV Syntax Checker, a processing program called via the terminal command language of CRJE, scans input written for the E, G, or H levels of the FORTRAN IV language for syntactical errors. The input is checked on a single-statement basis, i.e., no cross-checking between statements is performed. The syntax checker:
- . receives FORTRAN source statements in a chain of buffers from CRJE.
  - . scans these statements for errors; multiple errors in one statement are diagnosed whenever possible.
  - . sends appropriate error messages to CRJE for printing at the user's terminal.
- This program logic manual is directed to the IBM customer engineer who is responsible for program maintenance. Because program logic information is not necessary for program operation and use, distribution of this manual is restricted to persons with program maintenance responsibilities.
- LY28-6832  
IBM SYSTEM/360 OS/DOS ITF PROGRAM LOGIC INTRODUCTION AND METHOD OF OPERATION  
PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2  
This publication describes the internal logic of the Interactive Terminal Facility (ITF) that operates under System/360 Operating System (OS) or System/360 Disk Operating System (DOS). It is intended for use by persons involved in program maintenance. Program logic information is not necessary for the use and operation of the ITF; therefore, distribution of this publication is limited to licensees who have the aforementioned requirement.  
This publication is one section of the ITF program logic manual. Please refer to the Preface for a list of other sections that, together with this one, form the ITF program logic manual.
- LY28-6833  
IBM SYSTEM/360 OS/DOS ITF PROGRAM LOGIC INITIALIZATION SYSTEM CONTROL, AND SYSTEM SUPPORT PROGRAM LOGIC MANUAL - PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2  
This publication describes the internal logic of the Interactive Terminal Facility (ITF) that operates under System/360 Operating System (OS) or System/360 Disk Operating System (DOS). It is intended for use by persons involved in program maintenance. Program logic information is not necessary for the use and operation of the ITF; therefore, distribution of this publication is limited to licensees who have the aforementioned requirement.  
This publication is one section of the ITF program logic manual. Please refer to the Preface for a list of other sections that, together with this one, form the ITF program logic manual.
- LY28-6834  
IBM SYSTEM/360 OS/DOS ITF PROGRAM LOGIC LANGUAGE COMPONENT CONTROLLER  
PROGRAM LOGIC MANUAL PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2  
This publication describes the internal logic of the ITF under OS or DOS for persons involved in program maintenance. It is only one section of the PLM. This third section of the PLM for DOS or OS ITF users should be preceded by LY28-6832 Introduction and Method of Operation, and LY28-6833 Initialization, System Control and System Support Components. For PL/I-only users it should be followed by LY28-6835 and LY28-6837 Language Component and LY28-6840 Index. For BASIC users only substitute LY28-6836 for LY28-6835. Users of both PL/I and BASIC should refer to all four.
- LY28-6835  
IBM SYSTEM/360 OS/DOS ITF PL/I PROGRAM LOGIC LANGUAGE COMPONENT: PL/I ROUTINES  
PROGRAM NUMBERS 5734-RC1, 5736-RC1  
This publication describes the internal logic of the Interactive Terminal Facility (ITF) that operates under System/360 Operating System (OS) or System/360 Disk Operating System (DOS). It is intended for use by persons involved in program maintenance. Program logic information is not necessary for the use and operation of the ITF; therefore, distribution of this publication is limited to licensees who have the aforementioned requirement.  
This publication is one section of the ITF program logic manual. Please refer to the Preface for a list of other sections that, together with this one, form the ITF program logic manual.
- LY28-6836  
IBM SYSTEM/360 OS/DOS ITF PROGRAM LOGIC LANGUAGE COMPONENT: BASIC ROUTINES  
PROGRAM NUMBERS 5736-RC2, 5734-RC3  
This publication describes the internal logic of the Interactive Terminal Facility (ITF) that operates under System/360 Operating System (OS) or System/360 Disk Operating System (DOS). It is intended for use by persons involved in program maintenance. Program logic information is not necessary for the use and operation of the ITF; therefore, distribution of this publication is limited to licensees who have the aforementioned requirement.  
This publication is one section of the ITF program logic manual. Please refer to the Preface for a list of other sections that, together with this one, form the ITF program logic manual.
- LY28-6837  
IBM SYSTEM/360 OS/DOS ITF PROGRAM LOGIC LANGUAGE COMPONENT: COMMON ROUTINES AND REFERENCE DATA  
PROGRAM NUMBERS 5734-RC1, RC3, 5736-RC1, RC2  
This publication describes the internal logic of the Interactive Terminal Facility (ITF) that operates under System/360 Operating System (OS) or System/360 Disk Operating System (DOS). It is intended for use by persons

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- involved in program maintenance. Program logic information is not necessary for the use and operation of the ITP; therefore, distribution of this publication is limited to licensees who have the aforementioned requirement.
- This publication is one section of the ITP program logic manual. Please refer to the Preface for a list of other sections that, together with this one, form the ITP program logic manual.
- LY28-6840  
INTERACTIVE TERMINAL FACILITY PROGRAM LOGIC - PROGRAM NUMBERS 5734-RC1, RC3, 5736-RC1, RC2  
Service Aids provide service techniques, adjustment procedures and miscellaneous helpful information.
- LY28-6842  
IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) INTERACTIVE TERMINAL FACILITY PROGRAM LOGIC INITIALIZATION, SYSTEM CONTROL, AND SYSTEM SUPPORT PROGRAM NUMBERS 5734-RC2, 5734-RC4  
No abstract available.
- LY28-6845  
IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) INTERACTIVE TERMINAL FACILITY PROGRAM LOGIC INDEX PROGRAM NUMBERS 5734-RC2, 5734-RC4  
This publication describes the internal logic of ITP (Interactive Terminal Facility) that operates under System/360 Operating System with TSO (Time Sharing Option). It is intended for use by persons involved in program maintenance. Program logic information is not necessary for the use and operation of ITP; therefore, distribution of this publication is limited to licensees who have the aforementioned requirement.
- This publication is one section of the ITP program logic manual. Please refer to the Preface for a list of other sections that, together with this one, form the ITP program logic manual.
- LY28-6846  
IBM SYSTEM/360 OPERATING SYSTEM CODE AND GO FORTRAN PROCESSOR PROGRAM LOGIC MANUAL PROGRAM NUMBER 5734-F01  
This publication describes the internal logic of the Code and Go FORTRAN IV compiler.
- Program Logic Manuals are intended for use by IBM customer engineers involved in program maintenance, and by systems programmers involved in altering the program design. Program logic information is not necessary for program operation and use; therefore, distribution of this manual is limited to persons with program maintenance or modification responsibilities.
- The Code and Go FORTRAN IV compiler is a processing program of the IBM System/360 Operating System. It translates one or more source programs written in the FORTRAN language into System/360 executable machine code and then initiates execution of that code under the Time Sharing option of the operating system.
- LY28-6856  
IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (GI) COMPILER PLM PROGRAM NUMBER 5734-F02  
No abstract available.
- GY28-7106  
IBM SYSTEM/360 OPERATING SYSTEM UPDATE ANALYSIS PROGRAM PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-UT-506  
This publication describes the internal logic of the Update Analysis Program, a component of the IBM System/360 Operating System. The publication is intended for use by persons involved in program maintenance, and system programmers who are altering the program design. Program logic information is not necessary for use and operation of the program; therefore, distribution of this publication is limited to those with the aforementioned requirements.
- GY30-2001  
IBM SYSTEM/360 OPERATING SYSTEM BASIC TELECOMMUNICATIONS ACCESS METHOD PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-CQ-513  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY30-2002  
IBM SYSTEM/360 OPERATING SYSTEM QUEUED TELECOMMUNICATIONS ACCESS METHOD PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-CQ-519  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY30-2005  
PROGRAM NUMBER 360S-RC-536 IBM SYSTEM/360 OPERATING SYSTEM BASIC TELECOMMUNICATIONS ACCESS METHOD  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY30-2006  
IBM SYSTEM/360 BASIC OPERATING SYSTEM, BASIC PROGRAMMING SUPPORT REMOTE JOB ENTRY WORK STATION PROGRAM PROGRAM NUMBERS 360B-CQ-311-(BOS), 360F-CQ-218-(BFS) PROGRAM LOGIC MANUAL  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.
- GY30-2011  
IBM SYSTEM/360 OPERATING SYSTEM CONVERSATIONAL REMOTE JOB ENTRY PROGRAM LOGIC MANUAL  
This publication describes the internal logic of the Conversational Remote Job Entry (CRJE) facility of the IBM System/360 Operating System (OS). CRJE provides Remote Job Entry capability for users at remote keyboard terminals that are connected to an IBM System/360 via communication lines.
- This program logic manual is intended for use by personnel involved in program maintenance and by system programmers who are altering the system design. Program logic information is not necessary for the operation of the program; therefore, distribution of this manual is restricted to persons with program-maintenance responsibilities.
- GY30-2027  
IBM SYSTEM/360 OPERATING SYSTEM TCAM SERVICEABILITY AIDS: PROGRAM LOGIC MANUAL, PROGRAM NUMBER 360S-CQ-548  
This publication describes the internal logic of the Operating System Telecommunications Access Method Serviceability Aids. It is intended for use by IBM Program Support representatives and system programmers who are altering the program design.
- GY30-2029  
IBM SYSTEM/360 OPERATING SYSTEM TELECOMMUNICATIONS ACCESS METHOD PROGRAM NUMBER 360S-CQ-548 PROGRAM LOGIC MANUAL  
The IBM System/360 Telecommunications Access Method (TCAM) allows high-level, device-independent communication with telecommunications equipment. This program provides a flexible message control language that can be used to achieve installation-oriented message control.
- This publication describes the internal logic of TCAM. It identifies and discusses the parts of the program that perform specific functions and relates these parts to the program listing. It is directed to the IBM customer engineers and system engineers who need information on the internal organization and logic of TCAM in order to provide program maintenance.
- In order to understand the logic of TCAM, the reader must have a general understanding of IBM System/360 Operating System. In addition, the following are prerequisite publications:
- o IBM SYSTEM/360 OS TCAM CONCEPTS AND FACILITIES, Order No. GC30-2022, to gain familiarity with the overall concepts and structure of TCAM.
  - o IBM SYSTEM/360 OS TCAM PROGRAMMER'S GUIDE, Order No. GC30-2024, to learn how to construct and modify a TCAM message control program and a TCAM-compatible applica-

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tion program.

In addition, the IBM SYSTEM/360 OS SYSTEM CONTROL BLOCKS publication, Order No. GC28-6628, provides co-requisite information on system control blocks used by TCAM.

GY30-5001

IBM SYSTEM/360 DISK OPERATING SYSTEM  
BASIC TELECOMMUNICATIONS ACCESS METHOD PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 360N-CQ-469  
This publication describes the internal logic of the Disk Operating System's Basic Telecommunications Access Method (DOS/BTAM). It is intended for use by persons involved in program maintenance and for systems programmers who are altering the program design. Program logic information is not necessary for the use and operation of the program; therefore, distribution of this publication is limited to those with the aforementioned requirements.

GY30-5002

IBM SYSTEM/360 DISK OPERATING SYSTEM  
QUEUED TELECOMMUNICATIONS ACCESS METHOD  
PROGRAM LOGIC MANUAL PROGRAM NUMBER 360N-CQ-470  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.

GY33-6003

IBM SYSTEM/360 PL/I LANGUAGE SPECIFICATIONS  
This publication is the IBM description of the PL/I language. It does not describe any implementation; nor does it imply that any of the language described has been implemented or will be implemented by IBM. The publication is intended for the use of implementers and programming language designers.

LY33-6007

OS PL/I OPTIMIZING COMPILER: PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 5734-PL1  
The internal design of the OS PL/I Optimizing Compiler is described in this manual, which is written for use by programmers responsible for maintenance of the compiler. The manual is intended primarily as a guide to analysis of the program listings by people who are generally familiar with the compiler. However, overall and component descriptions are provided for use by readers who have no prior knowledge of the compiler design.

LY33-6008

SYSTEM/360 OPERATING SYSTEM PL/I RESIDENT LIBRARY:  
PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5734-LM4  
The OS PL/I Resident Library consists of standard subroutines that are link-edited with object programs generated by the OS Optimizing Compiler. The library is used in program management, input/output, conversion, and interlanguage communication, and also includes many computational subroutines.  
This publication is intended primarily for use by programmers concerned with the maintenance of the resident library. It summarizes, under functional headings, the internal logic of the library subroutines, and gives brief details of the relationships between them.

LY33-6009

OS PL/I TRANSIENT LIBRARY: PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 5734-LM5  
The OS PL/I Transient Library consists of standard subroutines that are loaded during execution of programs compiled by the OS PL/I Optimizing Compiler or the OS PL/I Checkout Compiler. These subroutines are used in error handling, program management, and input/output to provide storage dumps.  
This publication is intended primarily for use by programmers concerned with maintenance of the transient library. It summarizes, under functional headings, the internal logic of the library subroutines and gives brief details of the relationships between them.

LY33-6010

DOS PL/I OPTIMIZING COMPILER: PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 5736-PL1  
The internal design of the DOS PL/I Optimizing Compiler is described in this manual, which is written for use by programmers responsible for maintenance of the compiler. The manual is intended primarily as a guide to analysis of the program listings by people who are generally familiar with the compiler. However, overall and component

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descriptions are provided for use by readers who have no prior knowledge of the compiler design.

LY33-6011

DOS PL/I RESIDENT LIBRARY: PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 5736-LM4  
The DOS/PL1 Resident Library consists of standard subroutines that are link-edited with object programs generated by the DOS Optimizing Compiler. The library is used in program management, input/output, conversion, and interlanguage communication, and also includes many computational subroutines.  
This publication is intended primarily for use by programmers concerned with the maintenance of the resident library. It summarizes, under functional headings, the internal logic of the library subroutines, and gives brief details of the relationships between them.

LY33-6012

DOS PL/I TRANSIENT LIBRARY - PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 5736-LM5  
The DOS PL/1 Transient Library consists of standard subroutines that are loaded during execution of programs compiled by the DOS PL/1 Optimizing Compiler. These subroutines are used in error handling, program management, and input/output, and to provide storage dumps.  
This publication is intended primarily for use by programmers concerned with the maintenance of the transient library. It summarizes, under functional headings, the internal logic of the library subroutines, and gives brief details of the relationships between them.

LY33-6013

OS PL/I CHECKOUT COMPILER PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 5734-PL2  
This two-volume manual describes the internal logic of the OS PL/I Checkout compiler.  
The checkout compiler consists of a translator program and an interpreter program. The translator converts PL/I source programs into instructions in an intermediate code. The interpreter achieves the effect of object-time execution of the coded instructions.  
This volume contains a functional description of translation and the logic of the interpretation process. It does not describe the dynamic aspects of interpretation (which are discussed in OS PL/I Checkout Compiler: Execution Logic, Order No. SC33-0032), or the internal logic of the library subroutines (which are discussed in Volume 2 of this manual, Order No. LY33-6014).  
It is primarily intended for use by programmers who are responsible for maintenance of the compiler, or who wish to understand program design.

LY33-6014

SYSTEM/360 OPERATING SYSTEM PL/I CHECKOUT COMPILER  
PROGRAM LOGIC, VOLUME 2 OF 2 - PROGRAM NUMBER 5734-PL2  
This volume summarizes, under functional headings, the internal logic of the library subroutines, and gives brief details of the relationships between them.  
The library is used in program management, input/output, conversion, and interlanguage communications, and also includes many computational subroutines.

GY33-7006

IBM SYSTEM/360 CONVERSION AIDS: ALGOL-TO-PL/I LANGUAGE  
CONVERSION PROGRAM FOR IBM SYSTEM/360 OPERATING SYSTEM,  
PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360C-CV-711  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.

GY33-7007

IBM SYSTEM/360 CONVERSION AIDS: COBOL-TO-PL/I LANGUAGE  
CONVERSION PROGRAM FOR IBM SYSTEM/360 OPERATING SYSTEM,  
PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360C-CV-712  
A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications is limited to persons with maintenance and alteration requirements.

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- GY33-7008  
PROGRAM TO EMULATE THE 1401, 1440, AND 1460 ON THE SYSTEM/370 MODELS 145 AND 155 USING DISK OPERATING SYSTEM/360 - PROGRAM NUMBER 360N-EU-490  
PROGRAM LOGIC MANUAL  
 No abstract available.
- GY33-7009  
PROGRAM TO EMULATE THE 1410 AND 7010 ON THE SYSTEM/370 MODELS 145 AND 155 USING DOS/360 PROGRAM NUMBER 360N-EU-490  
PROGRAM LOGIC MANUAL  
 This publication describes the internal logic of the 1410/7010 Emulator Program for the System/370 Models 145 and 155, using the System/360 Disk Operating System. The emulator program is a problem program executed under control of the System/360 Disk Operating System. The emulator program and the appropriate compatibility feature (#4458 for Model 145, #3950 for Model 155) execute 1410/7010 programs on these System/370 models.  
 Major topics in this publication are the logic of the emulator program, the functions of the compatibility features, and the logic of the tape formatting programs used with the emulator.  
 The publication is written to meet the needs of the IBM customer engineer who must maintain the program.
- GY33-8000  
OS ALGOL (F) COMPILER LOGIC - PROGRAM NUMBERS 360S-AL-531 360S-LH-532  
 This manual describes the internal logic of the ALGOL (F) Compiler. It is intended for the use of IBM field engineers, systems analysts and programmers.  
 The ALGOL (F) Compiler is a processing program of the IBM System/360 Operating System. It translates a source module written in the ALGOL language into an object module that can be processed into an executable load module by the Linkage Editor.
- GY33-8009  
IBM SYSTEM/360 OPERATING SYSTEM, PL/I SYNTAX CHECKER, PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-PL-552  
 A Program Logic Manual describes the internal design or logic of the subject program. These manuals are intended for persons involved in program maintenance and system programmers who are altering the program design. Program logic information is not necessary for the operation of the program; therefore, distribution of these publications should be limited to persons with maintenance and alteration requirements.
- LY33-8027  
IBM SYSTEM/360 OPERATING SYSTEM, SORT/MERGE, PROGRAM LOGIC MANUAL - PROGRAM NO. 5734-SM1  
 This publication describes the internal logic of the IBM System/360 Operating System Sort/Merge Program. It describes the functions performed by specific areas of the program and is intended to be used by persons involved in program maintenance or by systems programmers who are altering the program design. It is not needed for normal use or for operation of the program. Included in this publication are flowcharts, storage layouts, a module directory, and diagnostic aids and messages.
- LY33-8039  
DOS SORT/MERGE PROGRAM LOGIC MANUAL \*N  
PROGRAM NUMBER 5743-SM1  
 This manual is a guide to the internal organization and logic of program no. 5743-SM1, intended for customer engineers. Describes program capabilities and system environment, techniques used by the program, and specific program components (using flowcharts). Also includes such aids as:  
 o Microfiche directory  
 o Table Layouts  
 o Register contents at entry to modules  
 o Error-message module cross-reference tables  
 o Control statement formats  
 o Summary of program exits  
 The user should be familiar with the Disk Operating System service programs, assembler language, macro instructions, and sort/merge program specifications.
- LY33-8540  
IBM SYSTEM/360 DISK OPERATING SYSTEM ASCII MAGNETIC TAPE UTILITIES PROGRAM LOGIC MANUAL  
PROGRAM NUMBER 5736-UT2  
 This publication describes the internal logic of the IBM System/360 Disk Operating System (DOS) utility programs that can process American National Standard Code for Information Interchange (ASCII) magnetic tape files. The DOS utility programs that utilize direct access storage devices (DASD), but cannot process ASCII files, are described in IBM SYSTEM/360 DISK OPERATING SYSTEM UTILITIES, PROGRAM LOGIC MANUAL, Order No. Gy24-5023. The DOS utility programs not using DASD and unable to process ASCII files are similar to the Tape Operating System (TOS) utility programs. These are described in the IBM SYSTEM/360 TAPE OPERATING SYSTEM UTILITY PROGRAMS, PROGRAM LOGIC MANUAL, Order No. Gy24-5019. Program logic information is not necessary for the use and operation of the program. This manual, is therefore, intended primarily for use by persons involved in program maintenance and by system programmers who are altering the program design.
- GY33-9010  
IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS, PL/I SUBSET LANGUAGE, PROGRAM LOGIC MANUAL, VOLUME 1 OF 3  
PROGRAM NUMBERS: 360N-PL-464 (DOS) 360N-PL-410 (TOS)  
 This publication provides information on the internal logic of the IBM System/360 DOS/TOS PL/I compiler. It is intended for use by persons involved in programming maintenance and by system programmers who wish to alter the program design. The information contained herein is not required for the use of, and the operation with, the PL/I compiler.  
 The publication is divided into three volumes. Volume 1 contains the description of the compiler phases; volumes 2 and 3 contain the corresponding flowcharts. The form numbers of the three volumes are:  
 Volume 1: GY33-9010  
 Volume 2: GY33-9011  
 Volume 3: GY33-9012  
 All information regarding the library subroutines of the DOS/TOS PL/I compiler is contained in the publication IBM SYSTEM/360, DISK AND TAPE OPERATING SYSTEMS, PL/I SUBSET-LIBRARY ROUTINES, PROGRAM LOGIC MANUAL, Form GY33-9013.
- GY33-9011  
IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS, PL/I SUBSET LANGUAGE, VOLUME 2 OF 3  
PROGRAM NUMBERS: 360N-PL-464 (DOS) 360N-PL-410 (TOS)  
PROGRAM LOGIC MANUAL  
 This publication provides information on the internal logic of the IBM System/360 DOS/TOS PL/I compiler. It is intended for use by persons involved in programming maintenance and by system programmers who wish to alter the program design. The information contained herein is not required for the use of, and the operation with, the PL/I compiler.  
 The publication is divided into three volumes. Volume 1 contains the description of the compiler phases; volumes 2 and 3 contain the corresponding flowcharts. The form numbers of the three volumes are:  
 Volume 1: GY33-9010  
 Volume 2: GY33-9011  
 Volume 3: GY33-9012  
 All information regarding the library subroutines of the DOS/TOS PL/I compiler is contained in the publication IBM SYSTEM/360, DISK AND TAPE OPERATING SYSTEMS, PL/I SUBSET-LIBRARY ROUTINES, PROGRAM LOGIC MANUAL, Form GY33-9013.
- GY33-9012  
IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS, PL/I SUBSET LANGUAGE, VOLUME 3 OF 3  
PROGRAM LOGIC MANUAL  
PROGRAM NUMBERS: 360N-PL-464 (DOS) 360N-PL-410 (TOS)  
 This publication provides information on the internal logic of the IBM System/360 DOS/TOS PL/I compiler. It is intended for use by system programmers who wish to alter the program design. The information contained herein is not required for the use of, and the operation with, the PL/I compiler.  
 The publication is divided into three volumes. Volume 1 contains the description of the compiler phases; volumes 2 and 3 contain the corresponding flowcharts. The form numbers of the three volumes are:  
 Volume 1: GY33-9010  
 Volume 2: GY33-9011  
 Volume 3: GY33-9012  
 All information regarding the library subroutines of the DOS/TOS PL/I compiler is contained in the publication IBM SYSTEM/360, DISK AND TAPE OPERATING SYSTEMS, PL/I SUBSET-LIBRARY ROUTINES, PROGRAM LOGIC MANUAL, Form GY33-9013.
- GY33-9013  
IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS PL/I SUBSET LIBRARY ROUTINES - PROGRAM LOGIC MANUAL  
PROGRAM NUMBERS 360N-PL-464 (DOS), 360N-PL-410 (TOS)  
 This publication describes the internal logic of the PL/I Subset library routines. This publication is intended for use by persons involved in program maintenance and by system programmers who are altering the program design.  
 This publication contains information on (1) the characteristics of the library and the calling conventions used and (2) the structure and functions of the various routines.  
 The reader of this publication should be familiar with the SRL publications

SECTION 2:  
ENTRIES ADDED TO THIS BIBLIOGRAPHY ARE IDENTIFIED BY A 'N' INDICATOR  
TO THE RIGHT OF THE ORDER NUMBER.

CONTINUED FROM PRIOR PAGE

- IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS, PL/I SUBSET REFERENCE MANUAL, Form GC28-8202, and
- IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS, ASSEMBLER LANGUAGE, Form GC24-3414.
- For a list of further related publications, refer to IBM SYSTEM/360 BIBLIOGRAPHY, Form GA22-6822.
- S2C0-0051  
MICROFICHE - EARLY WARNING  
2025 AND LARGER FILE CARD  
 Early Warning information consists of the most current service information available which has been extracted from the RETAIN System and reproduced on microfiche.
- S2C0-0101  
MICROFICHE - EARLY WARNING  
OPERATING SYSTEM OS FILE CARD  
 Early Warning information consists of the most current service information available which has been extracted from the RETAIN System and reproduced on microfiche.
- S2C0-0201  
MICROFICHE - EARLY WARNING  
PROGRAMMING SYSTEM OTHER THAN OS FILE  
 Early Warning information consists of the most current service information available which has been extracted from the RETAIN System and reproduced on microfiche.
- S2C0-0301  
MICROFICHE - EARLY WARNING PRODUCTS CSP-SCP FILE  
 Early Warning information consists of the most current service information available which has been extracted from the RETAIN System and reproduced on microfiche.
- S229-3169  
SYSTEM/360 OPERATING SYSTEM - HANDBOOK  
 A Handbook is a summary of basic maintenance documentation. It is the information on a system that the customer engineer requires at the system console to isolate a malfunction to a specific unit or function. The Handbook contains: general system reference data, including instruction formats; operation codes; code translation charts; interface information; error indication data; reference to diagnostic programs; etc.
- G320-0956  
ATS/360 TERMINAL OPERATOR'S QUICK REFERENCE GUIDE  
PROGRAM NUMBERS 360A-CX-18X, 360A-CX-19X  
 This guide is intended to facilitate rapid instruction of the computer center operator using System/360 ATS/DOS. It is essentially based on information appearing in the ATS/DOS Computer Center Operator's manual (GH20-0511). This reference guide will be updated from time to time to reflect system changes and improvements; however, the reader should remember that the basic program documentation (which includes GH20-0511) is the authoritative source of program information and will first reflect such changes.
- G320-0958  
ATS/360 - DOS COMPUTER OPERATOR'S QUICK REFERENCE GUIDE  
PROGRAM NUMBER 360A-CX-18X  
 This guide is intended to facilitate rapid instruction of the terminal operator using System/360 ATS. It is essentially based on information appearing in the ATS Terminal Operator's manual (GH20-0509). This reference guide will be updated from time to time to reflect system changes and improvements; however, the reader should remember that the basic program documentation (which includes GH20-0509) is the authoritative source of program information and will first reflect such changes.
- G320-1002  
ATS/360 - OS COMPUTER OPERATOR'S QUICK REFERENCE GUIDE  
PROGRAM NUMBER 360A-CX-19X  
 This guide is intended to provide the computer center operator using System/360 ATS/OS with a quick reference to operational commands. It is not an instruction manual. The table of contents is organized by sequence of operations. An index is provided at the back of the guide.
- G320-1408  
S/360 - S/370 MCGILL UNIVERSITY SYSTEM FOR INTERACTIVE COMPUTING - PROGRAM NUMBER 5796-IUP  
 The announcement notice describes the time-sharing system to be available on September 15, 1972 as an Installed User Program.
- G320-1409  
CONSOLIDATED FUNCTIONS EQUITY PRODUCTS (CFEP) VARIABLE ANNUITIES, MUTUAL FUNDS - DATAMARK INC., ANNOUNCEMENT NOTICE INSTALLED USER - PROGRAM NUMBER 5796-AAP  
 No abstract available.
- G320-1517  
APL/PDTS (PROGRAMMING DEVELOPMENT TRACKING SYSTEM)  
PROGRAM NUMBER 5796-PAD  
 This brochure highlights the facilities of APL/PDTS Installed User Program which is designed to assist managers and planners in monitoring performance against plan on programming development projects. The program provides best and worst case project completion dates based upon user resource constraints in graphical, tabular or bar chart form.
- G320-1518  
FLIGHT DATA DISPLAY SYSTEM IUP ANNOUNCEMENT NOTICE  
PROGRAM NUMBER 5796-PAE  
 This system provides both a control of flight information and the communication of that information to video monitors of the type found at airports. Its also provides flight information at agent terminals on request.
- G320-1519  
FLIGHT DATA DISPLAY SYSTEM, GENERAL INFORMATION MANUAL  
PROGRAM NUMBER 5796-PAE  
 This manual describes the features of the Flight Data Display System. This system provides both a control of flight information, and the communication of that information to video monitors of the type found at airports. It also provides flight information at agent terminals on request.
- G320-1621  
IBM MARKETING PUBLICATIONS KWIC INDEX  
 This reference document contains general information about publications in the Systems Library. It contains three sections as follows:  
 1) alphabetic KWIC index by titles  
 2) index by machine type number  
 3) price list in form number sequence (omitting the first character of the order number)
- G320-1973  
CP-67/CHS OPERATOR'S REFERENCE GUIDE  
PROGRAM NUMBER 360D-05.2.005  
 No abstract available.
- G520-2255  
LEMRAS - LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM  
MORE EFFICIENT POLICING WITH THE SAME POLICE FORCE  
 This brochure describes the program product titled LEMRAS and tells how more efficient policing can be obtained with the same police force. The brochure includes five (5) sample printouts.
- G520-2327  
IBM EDUCATION - A COURSE OF ACTION  
SYSTEMS SCIENCE EDUCATION  
 General course description of Basic Programmer Training, Systems Science Education (Parts I and II) and the Advanced Systems Science courses.
- G520-2329  
OS COURSE SELECTION GUIDE EDUCATION MARKETING  
 Details IBM Education courses available to users of OS, and lists sequences in which these courses should be taken according to customer job title.
- G520-2330  
DOS/TOS COURSE SELECTION GUIDE EDUCATION MARKETING  
 Details IBM Education courses available to users of DOS and TOS and lists sequences in which these courses should be taken according to customer job title.
- G520-2336  
INDUSTRY APPLICATIONS COURSE SELECTION GUIDE  
EDUCATION MARKETING  
 Promotional catalog detailing education courses available to customers in support of various Program Products.
- G520-2467  
IBM EDUCATION - A COURSE OF ACTION-DR EDUCATION FOR MANAGERS - COURSE SELECTION GUIDE  
 No abstract available.

SECTION 2:  
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GA24-3595

HONEYWELL SERIES 200 EMULATOR ON SYSTEM/370 USING DOS (PRPQ) - PLANNING GUIDE, PROGRAM NUMBER 5799-ADT

This publication describes the Honeywell Series 200 Emulator, an integrated emulator program, for the IBM System/370 Model 135 or 145. This publication also provides introductory and planning information for management and planning personnel.

The emulator is a problem program that operates in either a batched-job foreground or the background partition under control of the IBM Disk Operating System. The emulator uses the System/370 standard instruction set, a Honeywell Series 200 Compatibility feature, and the data management facilities of Disk Operating System to emulate the Honeywell Series 200 processor unit, input/output and console operations.

Publications useful as reference material are:

IBM System/360 Principles of Operation, Order Number GA22-6821

IBM System/370 Principles of Operation, GA22-7000.

For information about the Disk Operating System, refer to: System/360 and System/370 Bibliography, GA22-6822.

GA33-3997

IBM SYSTEM/370 MODEL 135-TERMINAL ADAPTER TYPE I MODEL II (FOR ICA): SPECIAL FEATURE DESCRIPTION SYSTEM LIBRARY MANUAL

This manual provides information for writing channel programs for the Terminal Adapter Type I Model II subfeature in the Integrated Communications Adapter (ICA) base feature of the IBM System/370 Model 135.

The manual is intended for applications programmers who use the assembler language and who are familiar with input/output programming as described in IBM System/360 Principles of Operation (GA22-6821) and IBM System/370 Principles of Operation (GA22-7000).

The Terminal Adapter Type I Model II subfeature covered by this manual allows the Model 135 to communicate with remote start/stop terminals such as the IBM 1050 Data Communications Terminals, and IBM System/7.

The first section of the manual outlines the relationship of the ICA to the CPU main storage and to the external communication link. Subsequent sections give details of transmission codes, methods of error detection, special characters, status and sense information, and communication procedures. Appendixes give information about the particular requirements of the remote devices.

SB21-9542

LEASE VS. PURCHASE ANALYSIS OF CAPITAL EXPENDITURES PROGRAM DESCRIPTION/OPERATIONS MANUAL - FDP NUMBER 5798-AJK

This 62 page document describes the capabilities of the FDP and the programs of the Lease vs. Purchase Analysis of Capital Expenditures system. Written in FORTRAN IV for the System/360, this system simulates different approaches to capital acquisition by applying a variety of depreciation methods, tax credits, financing, lease prices, etc.

This Program Description/Operations Manual provides the user with sufficient information to understand, install and successfully use the program.

SB21-9574

OS/360/370 JOB CONTROL LANGUAGE DEVICE DEPENDENT PARAMETER CONVERSION AND REPLACEMENT (DDPREP) AVAILABILITY NOTICE FDP NUMBER 5798-AJU

This four page document describes the purpose and highlights of the OS/360/370 Job Control Language - Device Dependent Parameter Conversion and Replacement (DDPREP) program for the System 360/370. Written in PL/I, this program converts production Job Control Language and procedure libraries to accommodate new I/O Device characteristics and data set locations.

This Availability Notice contains complete ordering instructions for the Field Developed Program and all its related documentation, for management and data processing personnel who are prospective users of the program and others who require information concerning it.

SH19-2697

IBM VEHICLE SCHEDULING PROGRAM - EXTENDED (OS) OPERATIONS MANUAL, PROGRAM NUMBER 5734-XMS

This manual describes the machine-readable material of the Vehicle Scheduling Program-Extended (VSPX), executed under OS, as distributed to the users. It discusses all procedures required for generating and cataloging VSPX, for the execution of VSPX jobs, and lists the error messages. This manual enables the user to install and execute VSPX.

GH29-9615

PLAN GRAPHICS SUPPORT FOR THE IBM 2250 ON SYSTEM/360 (OS) OPERATIONS MANUAL PROGRAM NUMBER 360A-CX-3UX

This manual is to assist users in the implementation and execution of PLAN Graphics Support jobs using OS/360.

GH29-9621

SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE - OS: OPERATIONS MANUAL - PROGRAM NUMBER 5736-P72

This manual contains instructions for incorporating the Array Processing Subroutine Package into the system library. It also includes diagnostic information required by all users of the Array Processor Access Method.

SH29-9998

BROKERAGE ACCOUNTING SYSTEM ELEMENTS (BASE) VERSION 2 PROGRAM NUMBER 5736-F31

This manual is the second of two volumes comprising the Program Description Manual for the Brokerage Accounting System Elements (BASE) system. It contains principally a graphic description of the BASE system file records as produced by the processing programs described in the Program Description Manual, Volume 1 (SH20-0997). A glossary of field names used on the files is also provided.

The BASE system is composed of a number of closely foundation for back office data processing applications in today's brokerage firm. Volume 1 of this manual describes the overall BASE system, the individual processing programs, and the production of, and printer layouts for, the more than 75 BASE reports associated with daily security activity.

Application areas covered by BASE include Purchase and Sale (P&S), Stock Record, Dividends, Bookkeeping, Interest, Customer Statements, and such critical Cashier functions as Falls and Transfers. The BASE system is general enough to permit various options and modifications to suit the individual requirements of a particular brokerage firm. However, the processing in the application areas is extensive so that most programs will require little or no modification by the typical brokerage firm.

LH29-1168

FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) PROGRAM LOGIC MANUAL - PROGRAM PRODUCT 5797-AAZ (DOS MESSAGE SWITCHING)

Fast Information Retrieval for Surface Transportation (FIRST) is an advanced teleprocessing system operating under CICS, designed to provide the operations management of a motor freight carrier with timely and accurate information. FIRST Message Switching provides the facility of point-to-point and multi-destination routing, group broadcasting, resent and reroute capability, conversational edit and error correction and multi-buffer message support. Modifications to CICS include implementation of a reusable transient data queue and a checkpoint/warm restart capability.

This manual provides descriptions and flowcharts for the FIRST Message Switching programs.

GH29-4223

BUSINESS ANALYSIS/BASIC FOR SYSTEM/3 MODEL 6 AND IFF (OS, DOS, TSO), DESIGN OBJECTIVES - PROGRAM PRODUCTS 5703-XH3, 5734-XHB

The Program Product Design Objectives (PPDO) describe the design objectives and provide the estimated availability date of the subject Program Product.

GUD1-1643

EMULATOR FOR 7074 ON S/370 MODEL 155 UNDER OS MICROFICHE - PROGRAM NUMBER 360C-EU-741

This document contains Type I OS program listings and DOS/OS PF listings.

LY29-9615

PROJECT MANAGEMENT SYSTEM IV (PMSIV) RESOURCE ALLOCATION PROCESSOR FLOWCHART MANUAL PROGRAM NUMBER 8734-XP4, FEATURE CODE 8078

This manual contains the flowcharts for the Resource Allocation Processor of Project Management System IV. It should be used in conjunction with the system manual for the Resource Allocation Processor.

PART3. CURRENT EDITIONS BY ORDER NUMBER

ORDER NUMBER	TECHNICAL NEWSLETTERS	TITLE
GA19-0004-1		IBM 1219 READER SORTER, MODEL 32 IBM 1419 MAGNETIC CHARACTER READER, MODEL 32 SYSTEMS REFERENCE LIBRARY MANUAL
GA19-0010-3*		IBM 3944 DIAL TERMINAL SYSTEMS REFERENCE LIBRARY MANUAL
GA19-0019-0		IBM SYSTEM/360 MODEL 30 1401/1440/1460 COMPATIBILITY FEATURE INVERTED PRINT EDIT AND STERLING SUB-FEATURES SYSTEMS REFERENCE LIBRARY MANUAL
GA19-0023-2		IBM 1419 MODEL 32 ATTACHED TO IBM SYSTEM/360 MODEL 25, 30, 40, 50, AND 65 SYSTEMS REFERENCE LIBRARY MANUAL
GA19-0034-2		IBM 1275 OPTICAL READER SORTER FOR SYSTEM/360 AND SYSTEM/370 PAPER AND PRINT QUALITY REQUIREMENTS FOR IBM 1270 AND 1275 OPTICAL READER SORTERS
GA19-0036-1#		IBM 1442-N1 AND N2 COMPONENT DESCRIPTION AND OPERATING PROCEDURES
GA19-0036-0#		IBM 2501 MODELS B1 AND B2 COMPONENT DESCRIPTION AND OPERATING PROCEDURES
GA21-9025-4#		IBM 2520-B1, B2, AND B3, COMPONENT DESCRIPTION AND OPERATING PROCEDURES
GA21-9025-3#		
GA21-9026-3		
GA21-9027-4#		
GA21-9027-3#	GN21-0104 GN21-0083	GN21-0087
GA21-9031-2	GN21-0105	
GA21-9033-3		IBM SYSTEM/360 COMPONENT DESCRIPTION AND OPERATING PROCEDURES: 1231-N1 IBM SYSTEM/360 COMPONENT DESCRIPTION AND OPERATING PROCEDURES IBM 2540 CARD READ PUNCH
GA21-9064-5	GN21-0122	** GN21-0145
GA21-9070-0		IBM SYSTEM/360 COMPONENT DESCRIPTION AND OPERATING PROCEDURES IBM 1287 OPTICAL READER IBM 1050 SPECIAL FEATURES DESCRIPTION, IBM ASCII DATA COMMUNICATION SYSTEM WITH RPO FEATURES P18589, 82027, 842028, AND 842029 IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 1288 OPTICAL PAGE READER MODEL 1 3505 CARD READER 3525 CARD PUNCH SYSTEMS REFERENCE LIBRARY MANUAL
GA21-9081-3	GN21-0134	
GA21-9124-2#		
GA21-9124-1#		
GA21-9124-0#	GN21-0130	
GA21-9139-0+		GENERAL INFORMATION MANUAL IBM 1287 MODEL V IBM 2596 CARD READ PUNCH PROGRAMMER'S REFERENCE MANUAL AND OPERATOR'S GUIDE - SYSTEMS REFERENCE LIBRARY
GA21-9144-0		IBM SYSTEM/360 SYSTEM SUMMARY
GA22-6810-10	GN22-0349 GN22-0344 GN22-0386	GN22-0346 GN22-0347
GA22-6813-5#		IBM - SYSTEM/360 MODEL 40 CONFIGURATOR
GA22-6813-4#		
GA22-6814-4		IBM SYSTEM/360 MODEL 50 CONFIGURATOR
GA22-6821-8#		IBM SYSTEM/360 PRINCIPLES OF OPERATION SYSTEMS REFERENCE LIBRARY
GA22-6821-7#	GN22-0354	GN22-0361
GA22-6823-10#		SYSTEM/360 INPUT/OUTPUT CONFIGURATOR
GA22-6823-9#		
GA22-6823-8#		
GA22-6828-1		IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 7340 MODEL 3 HYPERTAPE DRIVE
GA22-6846-4		IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2702 TRANSMISSION CONTROL IBM 2701 DATA ADAPTER UNIT COMPONENT DESCRIPTION
**GA22-6864-5#		
GA22-6864-4#		
GA22-6864-3#		
GA22-6866-5	GN32-0000	
GA22-6868-3#		IBM SYSTEM/360 COMPONENT DESCRIPTION 2400 SERIES MAGNETIC TAPE UNITS 2803/2804 TAPE CONTROLS AND 2816 SWITCHING UNIT, MODEL 1 IBM SYSTEM/360 - COMPONENT DESCRIPTION, IBM 1827 DATA CONTROL UNIT
GA22-6868-2#		IBM 1827 DATA CONTROL UNIT - CONFIGURATOR
GA22-6872-1		IBM SYSTEM/360 MODEL 44 CONFIGURATOR
GA22-6874-1		IBM SYSTEM/360 MODEL 44 FUNCTIONAL CHARACTERISTICS
GA22-6875-6		IBM SYSTEM/360 COMPONENT DESCRIPTIONS AND OPERATING PROCEDURES IBM 1052 PRINTER-KEYBOARD MODEL 7 WITH IBM 2150 CONSOLE
GA22-6877-5#	GN22-0305	
GA22-6877-4#		IBM SYSTEM/360 MODEL 40 FUNCTIONAL CHARACTERISTICS
GA22-6881-3#		
GA22-6881-2#		
GA22-6884-4		IBM SYSTEM/360 MODEL 65 FUNCTIONAL CHARACTERISTICS SYSTEM/360 MODEL 65 CONFIGURATOR
GA22-6887-5		IBM SYSTEM/360 MODEL 75 CONFIGURATOR
GA22-6888-3#	GN27-2931	
GA22-6889-2		IBM SYSTEM/360 MODEL 75 FUNCTIONAL CHARACTERISTICS
GA22-6892-1		IBM SYSTEM/360 SPECIAL FEATURE CHANNEL-TO-CHANNEL ADAPTER
GA22-6895-3		IBM SYSTEM/360 COMPONENT DESCRIPTIONS - 2820 STORAGE CONTROL AND 2301 DRUM STORAGE IBM SYSTEM/360 MODEL 50 FUNCTIONAL CHARACTERISTICS
GA22-6898-3#		
GA22-6898-2#	GN22-0330	
GA22-6900-2	GN22-0301	
GA22-6907-3#		DATA ACQUISITION SPECIAL FEATURES FOR THE IBM SYSTEM/360 MODEL 44 IBM SYSTEM/360 MODEL 91 FUNCTIONAL CHARACTERISTICS
GA22-6907-2#		
GA22-6908-2#		IBM SYSTEM/360 MODEL 50 OPERATING PROCEDURES
GA22-6908-1#		
GA22-6909-0		IBM SYSTEM/360 MODEL 75 OPERATING PROCEDURES
GA22-6910-0		IBM SYSTEM/360 MODEL 44 OPERATING PROCEDURES
**GA22-6911-1		IBM SYSTEM/360 MODEL 40 OPERATING PROCEDURES
GA22-6916-1	GN22-0325	GN22-0326
GA22-6920-3		IBM SYSTEM/360 MODEL 85 FUNCTIONAL CHARACTERISTICS
GA22-6927-1		IBM SYSTEM/360 MODEL 85 CONFIGURATOR
GA22-6935-0	GN22-0391	GN22-0401
		IBM SYSTEM/370 MODEL 165 FUNCTIONAL CHARACTERISTICS

GA22-6942-1	GN22-0382 GN22-0404	GN22-0399 GN22-0426	IBM SYSTEM/370 MODEL 155 FUNCTIONAL CHARACTERISTICS
GA22-6943-2 GA22-6944-3 GA22-6951-0 GA22-6954-0 GA22-6955-0	GN22-0366 GN22-0424 GN22-0427		IBM SYSTEM/360 MODEL 195 FUNCTIONAL CHARACTERISTICS SYSTEM/360 MODEL 195 CONFIGURATOR IBM 50 MAGNETIC DATA INSCRIBER OPERATOR'S GUIDE IBM SYSTEM/360 MODEL 195 OPERATING PROCEDURES IBM SYSTEM/370 SPECIAL FEATURE DESCRIPTION: 709/7090/7094/7094 II COMPATIBILITY FEATURE FOR IBM SYSTEM/370 MODEL 165
GA22-6956-0 GA22-6957-1 GA22-6958-0	GN22-0428		IBM SYSTEM/370 MODEL 165 CONFIGURATOR IBM SYSTEM/370 MODEL 155 CONFIGURATOR IBM SYSTEM/370 SPECIAL FEATURE DESCRIPTION: 7070/7074 COMPATIBILITY FEATURE FOR IBM SYSTEM/370 MODEL 165
GA22-6962-1 GA22-6963-0	GN22-0376	GN22-0400	IBM SYSTEM/370 MODEL 155 CHANNEL CHARACTERISTICS IBM SYSTEM/370 SPECIAL FEATURE DESCRIPTION 7080 COMPATIBILITY FEATURE FOR IBM SYSTEM/370 MODEL 165
GA22-6966-1 GA22-6969-1			IBM SYSTEM/370 MODEL 155 OPERATING PROCEDURES IBM SYSTEM/370 MODEL 165 OPERATING PROCEDURES
GA22-6983-0			SYSTEM LIBRARY MANUAL SYSTEM/370 SPECIAL FEATURE: CHANNEL-TO-CHANNEL ADAPTER SYSTEM LIBRARY MANUAL
GA22-7000-1 GA22-7001-1 GA22-7002-1 GA24-1421-4# GA24-1421-3# GA24-1446-1 GA24-1452-2 GA24-1473-3	GN22-0438	**GN22-0437	IBM SYSTEM/370 PRINCIPLES OF OPERATION IBM SYSTEM/370 SYSTEM SUMMARY SYSTEM/370 INPUT/OUTPUT CONFIGURATION IBM 1412 MAGNETIC CHARACTER READER MODEL I
GA24-1499-7# GA24-1499-6# GA24-1499-5# GA24-3073-7# GA24-3073-6# GA24-3081-3 GA24-3089-7 GA24-3120-7	GN24-0491 GN24-0426 GN24-0456 GN20-1001-54		IBM 1404 PRINTER PRINT QUALITY CONSIDERATIONS IBM 1418 AND IBM 1428 IBM 1418 OPTICAL CHARACTER READER IBM 1428 ALPHAMERIC OPTICAL READER IBM 1219 READER SORTER IBM 1419 MAGNETIC CHARACTER READER
GA24-3231-7# GA24-3231-6# GA24-3231-5# GA24-3232-3 GA24-3255-7 GA24-3256-5	GN24-0435 GN24-0437 GN21-0102	GN24-0431	IBM 1403 PRINTER COMPONENT DESCRIPTION SYSTEMS REFERENCE LIBRARY MANUAL MARK READ STATION (SLANTED MARK) FOR IBM 1418 AND IBM 1428 TELE-PROCESSING AND DATA COLLECTION BIBLIOGRAPHY IBM 1443 PRINTER MODELS 1 TO 4 AND N1 IBM 1445 PRINTER MODELS 1 AND N1 COMPONENT DESCRIPTION IBM SYSTEM/360 MODEL 30 FUNCTIONAL CHARACTERISTICS
GA24-3312-0# GA24-3312-7#	GN24-0455 GN24-0470	GN24-0453 GN24-0487	IBM SYSTEM/360 MODEL 30 CONFIGURATOR IBM SYSTEM/360 MODEL 30 1401/1440/1460 COMPATIBILITY FEATURE IBM 1285 OPTICAL READER COMPONENT DESCRIPTION AND OPERATING PROCEDURES IBM 2821 CONTROL UNIT
GA24-3342-0			BATCH NUMBERING FEATURE FOR IBM 1241 AND 1419 MAGNETIC INK CHARACTER RECOGNITION READERS
GA24-3365-3 GA24-3373-3# GA24-3373-2# GA24-3380-4	GN24-0432 **GN33-0004		IBM SYSTEM/360 MODEL 30 1620 COMPATIBILITY FEATURE IBM SYSTEM/360 MODEL 30 OPERATING GUIDE
GA24-3411-2			IBM 2671 PAPER TAPE READER, IBM 2822 PAPER TAPE READER CONTROL - COMPONENT DESCRIPTION IBM SYSTEM/360 MODEL 30 CHANNEL CHARACTERISTICS AND FUNCTIONAL EVALUATION
GA24-3426-0 GA24-3400-4 GA24-3500-2 GA24-3509-2	GN24-0472	GN24-0490	IBM 2712 REMOTE MULTIPLEXOR FORM DESIGN REFERENCE GUIDE FOR PRINTERS IBM 1259 MAGNETIC CHARACTER READER COMPONENT DESCRIPTION IBM 2944 DATACHANNEL REPEATER INSTALLATION MANUAL-PHYSICAL PLANNING
GA24-3510-1 GA24-3511-4 GA24-3512-2	GN24-0425 GN24-0452	GN24-0454	IBM SYSTEM/360 MODEL 25 FUNCTIONAL CHARACTERISTICS IBM SYSTEM/360 MODEL 25 CONFIGURATOR IBM SYSTEM/360 MODEL 25 1401/1460 AND 1440 COMPATIBILITY FEATURES
GA24-3516-2			IBM 2938 ARRAY PROCESSOR MODEL 1 RPQ W24563, MODEL 2 RPQ 815188 INSTALLATION MANUAL - PHYSICAL PLANNING
GA24-3519-1	GN24-0448 GN24-0469	GN24-0459	IBM SYSTEM/360 CUSTOM EQUIPMENT DESCRIPTION: 2938 ARRAY PROCESSOR (MODEL 1, RPQ W24563; MODEL 2, RPQ 815188) SYSTEMS REFERENCE LIBRARY MANUAL IBM SYSTEM/360 MODEL 25 OPERATING PROCEDURES IBM SYSTEM/360 MODEL 25 MODEL 20 MODE FEATURE
GA24-3523-2 GA24-3524-3# GA24-3524-2# GA24-3526-2			IBM SYSTEM/360 MODEL 25 INTEGRATED COMMUNICATIONS ATTACHMENT FEATURE IBM SYSTEM/360 MODEL 25 CHANNEL CHARACTERISTICS AND FUNCTIONAL EVALUATION
GA24-3530-0	GN24-0447		IBM 1255 MAGNETIC CHARACTER READER MODELS 1, 2, AND 3 COMPONENT DESCRIPTION
GA24-3542-2			IBM 3211 PRINTER 3216 INTERCHANGEABLE TRAIN CARTRIDGE AND 3811 PRINTER CONTROL UNIT COMPONENT DESCRIPTION AND OPERATOR'S GUIDE
GA24-3543-2	GN24-0484 **GN24-0494	**GN24-0492	IBM 2956-5 MULTI-POCKET READER SORTER INSTALLATION MANUAL PHYSICAL PLANNING IBM SYSTEM/360 MODEL 25, HIGH-SPEED CHANNEL-3414 ATTACHMENT FEATURE RPQ E69109
GA24-3545-1			IBM 3215 CONSOLE PRINTER-KEYBOARD COMPONENT DESCRIPTION IBM 2956-5 MULTI-POCKET MCR READER SORTER CUSTOM UNIT DESCRIPTION: RPQ W19976
GA24-3547-0			IBM 3210 CONSOLE PRINTER-KEYBOARDS
GA24-3550-2 GA24-3551-0			IBM SYSTEM/370 MODEL 145 FUNCTIONAL CHARACTERISTICS IBM 1925 MODEL 18 INTERFACE SWITCH UNIT RPQ 811301 INSTALLATION MANUAL--PHYSICAL PLANNING
GA24-3552-1 GA24-3557-2 GA24-3561-0			IBM 2911 MODEL 14 INTERFACE SWITCH UNIT RPQ 811503 INSTALLATION MANUAL--PHYSICAL PLANNING
GA24-3562-0			IBM SYSTEM/360 MODEL 30 STORAGE EXPANSION FEATURE MANUAL: RPQ'S EA3807, EA1527; OR RPQ'S Y91283 AND Y91325 (WORLD TRADE)
GA24-3564-0			IBM 1972 MODEL 3 PRODUCTION TERMINAL IBM 1972 MODEL 4 INSTRUCTION CONSOLE INSTALLATION MANUAL PHYSICAL PLANNING COMPONENT DESCRIPTION
**GA24-3566-1# GA24-3566-0#	GN24-0476		IBM SYSTEM/360 MODEL 22 FUNCTIONAL CHARACTERISTICS SYSTEMS MANUAL
GA24-3572-1			IBM SYSTEM/370 MODEL 145 CHANNEL CHARACTERISTICS IBM SYSTEM/360 MODEL 22 OPERATOR'S GUIDE IBM SYSTEM/360 MODEL 22 CHANNEL CHARACTERISTICS AND FUNCTIONAL EVALUATION - SYSTEMS LIBRARY MANUAL
GA24-3573-0 GA24-3574-0 GA24-3579-0	GN24-0474		IBM 1972 MODEL 3 PRODUCTION TERMINAL 1972 MODEL 4 INSTRUCTION CONSOLE OPERATOR'S GUIDE
GA24-3590-0			RCA 301 EMULATOR ON SYSTEM/370 USING DOS -- PLANNING GUIDE HONEYWELL SERIES 200 EMULATOR ON SYSTEM/370 USING DOS PRPQ-PLANNING GUIDE PROGRAM NUMBER 5799-ADT
**GA24-3594-0 GA24-3595-0	GN24-0496 GN24-0497		IBM 2973 MODEL 2 FILE SWITCH INSTALLATION MANUAL - PHYSICAL PLANNING RPQ F13209 IBM SYSTEM/360 CUSTOM FEATURE DESCRIPTION - 2973 MODEL 2 FILE SWITCH RPQ F13209
GA26-1582-0			
GA26-1583-0			

GA26-1589-2#	GN26-0276	COMPONENT SUMMARY-2835 STORAGE CONTROL
GA26-1589-1#		2305 FIXED HEAD STORAGE
GA26-1589-0#		REFERENCE MANUAL FOR IBM 2820 STORAGE CONTROL AND IBM 3330
**GA26-1592-2		DISK STORAGE - SYSTEMS REFERENCE LIBRARY
GA26-1593-1		IBM 2968 MODEL 11 AUDIO/VISUAL CONTROL:
		COMPONENT DESCRIPTION AND OPERATING PROCEDURES
		RPQ F30209
GA26-1599-2	**GN26-0289	IBM 2730 MODEL 1 TRANSACTION VALIDATION TERMINAL, IBM 2968
GA26-1600-1		MODEL 9 AND MODEL 12 RECEIVER-TERMINAL CONTROL UNIT
		2730 MODEL 1, 2968 MODEL 9, AND 2968 MODEL 12: INSTALLATION
		MANUAL - PHYSICAL PLANNING
GA26-1606-2		IBM 2319 DISK STORAGE - A-SERIES, COMPONENT DESCRIPTION
GA26-3599-6#	GN26-0265	GN26-0274
GA26-3599-5#	GN26-0258	
GA26-3599-4#		IBM SYSTEM/360 COMPONENT DESCRIPTIONS - 2314 DIRECT ACCESS
GA26-3633-1		STORAGE FACILITY AND 2844 AUXILIARY STORAGE CONTROL
GA26-3699-1#		DATA CELL HANDLING GUIDE
GA26-3699-0#	GN26-0254	GN26-0211
GA26-5714-0		IBM 1971-1980 CUSTOM TERMINAL FUNCTIONAL CHARACTERISTICS,
		OPERATING PROCEDURES, AND PHYSICAL PLANNING
GA26-5756-8#		IBM 2314/2844 MULTIPLEX STORAGE CONTROL FEATURE - AIRLINES
GA26-5756-7#		BUFFER
GA26-5988-7		IBM DISK PACK AND CARTRIDGE HANDLING PROCEDURES
		IBM SYSTEM/360 COMPONENT DESCRIPTIONS--2841 AND
		ASSOCIATED DASD
		2311 DISK STORAGE DRIVE MODEL 1, 2321 DATA CELL DRIVE,
		2303 DRUM STORAGE
GA26-5993-1		IBM SYSTEM/360 CUSTOM FEATURE, 2972 LINE
GA27-2700-5		CONTROL UNIT, MODEL 1
		IBM SYSTEM/360 COMPONENT DESCRIPTION:
		IBM 2260 DISPLAY STATION
		IBM 2848 DISPLAY CONTROL
GA27-2701-3#		IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2250
GA27-2701-2#		DISPLAY UNIT MODEL 1
GA27-2702-0		IBM SYSTEM/360 COMPONENT DESCRIPTION IBM
		2250 DISPLAY UNIT MODEL 2 IBM 2840 DISPLAY CONTROL MODEL 1
GA27-2703-2#		IBM 2703 TRANSMISSION CONTROL COMPONENT DESCRIPTION
GA27-2703-1#	GN27-3043	GN27-3038
	GN27-3029	GN27-3027
	GN27-3055	
GA27-2704-1		IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2711 LINE
		ADAPTER UNIT
GA27-2710-1		IBM 7772 AUDIO RESPONSE UNIT VOCABULARY
GA27-2711-0	GN27-3020	IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 7772 AUDIO
		RESPONSE UNIT
GA27-2712-1		COMPONENT DESCRIPTION: IBM 7770 AUDIO RESPONSE UNIT MODEL 3
		MODEL 1, 2, AND 3
GA27-2713-3		IBM SYSTEM/360 MODEL 67 CONFIGURATOR
GA27-2715-2		IBM SYSTEM/360 SPECIAL FEATURE DESCRIPTION
		709/7040/7044/7090/7094/7094 II COMPATIBILITY FEATURE FOR
		SYSTEM/360 MODELS 65 AND 67
GA27-2716-0	GN27-2912	IBM SYSTEM/360 SPECIAL FEATURE DESCRIPTION 7080
		COMPATIBILITY FEATURE FOR SYSTEM/360 MODEL 65
GA27-2717-0		IBM SYSTEM/360 SPECIAL FEATURE DESCRIPTION 7074
		COMPATIBILITY FEATURE FOR SYSTEM/360 MODELS 50 AND 65
		IBM SYSTEM/360 MODEL 67 FUNCTIONAL CHARACTERISTICS
GA27-2719-2#		IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2250 DISPLAY UNIT
GA27-2719-1#	GN27-2940	GN27-2944
GA27-2721-1#		MODEL 3 IBM 2840 DISPLAY CONTROL MODEL 2
GA27-2721-0#	GN27-2934	IBM SYSTEM/360 CUSTOM SYSTEMS UNIT 2916 LONG LINE ADAPTER,
GA27-2724-1		MODELS 3 AND 4 INSTALLATION BULLETIN - PHYSICAL PLANNING
		IBM 50 MAGNETIC DATA INSCRIBER COMPONENT DESCRIPTION
GA27-2725-2	GN22-0341	GN22-0340
	GN22-0339	GN22-0331
	GN22-0365	
GA27-2726-1		IBM SYSTEM/360 COMPONENT DESCRIPTION IBM 2495 TAPE
		CARTRIDGE READER
GA27-2727-1		IBM SYSTEM/360 CUSTOM SYSTEMS UNIT 2909 MODEL 3 -
		ASYNCHRONOUS DATA CHANNEL RPQ F13299 RPQ 882045
		INSTALLATION BULLETIN-PHYSICAL PLANNING
		IBM SYSTEM/360 MODEL 65 OPERATING PROCEDURES
GA27-2728-1#		IBM SYSTEM/360 CUSTOM SYSTEMS UNIT 2972 MODEL 7
GA27-2728-0#		SCIENTIFIC INTERFACE CONTROL UNIT RPQ E46181
GA27-2729-0		INSTALLATION BULLETIN - PHYSICAL PLANNING
		COMPONENT DESCRIPTION IBM 2285 DISPLAY COPIER
GA27-2730-0	GN27-2945	IBM SYSTEM/360 COMPONENT DESCRIPTION
GA27-2731-2		IBM 2265 DISPLAY STATION IBM 2845 DISPLAY CONTROL
GA27-2733-0	GN27-2938	GN27-2936
	GN27-2941	
		IBM SYSTEM/360 SPECIAL FEATURE DESCRIPTION
		709/7090/7094/7094 II COMPATIBILITY FEATURE FOR
		IBM SYSTEM/360 MODEL 85
GA27-2737-0		IBM 2909-3 ASYNCHRONOUS DATA CHANNEL RPQ F13299
		CUSTOM FEATURE DESCRIPTION
GA27-2739-1#	GN31-3002	AN INTRODUCTION TO THE IBM 3270 INFORMATION DISPLAY SYSTEM
GA27-2739-0#		IBM 7412 MODEL 1 CONSOLE, CUSTOM SYSTEMS RPQ AA2846,
GA27-2740-0		CUSTOM FEATURE DESCRIPTION
**GA27-2741-0		INSTALLATION BULLETIN PHYSICAL PLANNING FOR IBM 7412
		CONSOLE MODEL 1 CUSTOM SYSTEMS RPQ AA2846
GA27-2742-0	GN31-3001	OPERATOR'S GUIDE FOR IBM 3270 INFORMATION DISPLAY SYSTEM
GA27-2749-0		IBM 3270 INFORMATION DISPLAY SYSTEM COMPONENT DESCRIPTION
		SYSTEM LIBRARY MANUAL
**GA27-2750-0		IBM 3270 PROBLEM DETERMINATION GUIDE - SYSTEM LIBRARY
		MANUAL
GA27-3011-1		IBM 2760 OPTICAL IMAGE UNIT COMPONENT DESCRIPTION
GA27-3029-1		2721 PORTABLE AUDIO TERMINAL
GA27-3039-0		IBM 2721 PORTABLE AUDIO TERMINAL OPERATOR'S HANDBOOK
GA27-3040-0		CUSTOM UNIT DESCRIPTION - 1970-1 REMOTE AUDIO RESPONSE UNIT
GA27-3041-0		IBM 1970 MODEL 1 REMOTE AUDIO RESPONSE UNIT
		INSTALLATION MANUAL - PHYSICAL PLANNING
GA27-3043-1		IBM 3735 PROGRAMMABLE BUFFERED TERMINAL CONCEPT
		AND APPLICATION
GA27-3048-0+		IBM 3670 BROKERAGE COMMUNICATION SYSTEM
		SYSTEM CONCEPTS AND CONFIGURATOR
GA27-3049-0+		IBM 3670 BROKERAGE COMMUNICATION SYSTEM
		INSTALLATION MANUAL--PHYSICAL PLANNING
GA27-3050-0		IBM 3670 BROKERAGE COMMUNICATION SYSTEM COMPONENT
		DESCRIPTION MANUAL
GA27-3051-0		INTRODUCTION TO THE 3705 COMMUNICATIONS CONTROLLER
GA27-3063-0		COMPONENT INFORMATION FOR THE IBM 3700 DATA COMMUNICATION
		TERMINAL
GA32-0006-3		TAPE SPECIFICATIONS FOR IBM ONE-HALF INCH TAPE DRIVES AT:
		556 AND 800 BPI AND 3200 FCI
GA32-0007-2		COMPONENT DESCRIPTION IBM 2420 MODEL 5 MAGNETIC TAPE UNIT
GA32-0015-0		IBM 3410/3411 MAGNETIC TAPE SUBSYSTEM COMPONENT SUMMARY
		MANUAL

GA32-0020-2	**GN33-3012	**GN33-3006	3803/3420 MAGNETIC TAPE SUBSYSTEMS
GA33-3005-2			IBM SYSTEM/370 MODEL 135 FUNCTIONAL CHARACTERISTICS
**GA33-3006-4+			IBM SYSTEM/360 MODEL 135 CONFIGURATOR - SYSTEMS LIBRARY PUBLICATION
GA33-3007-0			IBM SYSTEM/370 MODEL 135-TERMINAL ADAPTER TYPE I MODEL II (FOR ICA): SPECIAL FEATURE DISCRPTION SYSTEM LIBRARY MANUAL
GA33-3008-0	**GN33-3009		IBM SYSTEM/370 MODEL 135 - TERMINAL ADAPTER TYPE III, FOR INTEGRATED COMMUNICATIONS ADAPTER: SPECIAL FEATURE DESCRIPTION MANUAL
GA33-3009-0			IBM SYSTEM/370 MODEL 135 SYNCHRONOUS DATA ADAPTER TYPE II, (FOR ICA): SPECIAL FEATURE DESCRIPTION SYSTEM LIBRARY MANUAL
GA33-3010-0			IBM SYSTEM/370 MODEL 135 CHANNEL CHARACTERISTICS SYSTEM LIBRARY MANUAL
GA33-4500-2			IBM SYSTEM/360 COMPONENT DESCRIPTIONS - 2826 PAPER TAPE CONTROL UNIT 1017 PAPER TAPE READER 1018 PAPER TAPE PUNCH
**GA36-0002-1			IBM 4481 FILM READER/RECORDER
**GA36-0003-1			4481 FILM READER/RECORDER PROGRAMMER'S GUIDE
**LB0F-2063-0			82 SORTER OPERATION - PI - COURSE CODE A0002
SB0F-6100-0			PTF PROGRAM NUMBER 360S-AL-531
SB0F-6103-0			PTF PROGRAM NUMBER 360S-AS-037
SB0F-6106-0			PTF PROGRAM NUMBER 360S-CB-524
SB0F-6109-0			PTF PROGRAM NUMBER 360S-CB-545
SB0F-6110-0			PTF PROGRAM NUMBER 360S-CI-505
SB0F-6113-0			PTF PROGRAM NUMBER 360S-CI-535
SB0F-6116-0			PTF PROGRAM NUMBER 360S-CI-555
SB0F-6119-0			PTF PROGRAM NUMBER 360S-CO-503
SB0F-6122-0			PTF PROGRAM NUMBER 360S-CQ-513
SB0F-6125-0			PTF PROGRAM NUMBER 360S-CQ-519
SB0F-6128-0			PTF PROGRAM NUMBER 360S-CQ-548
SB0F-6131-0			PTF PROGRAM NUMBER 360S-DH-508
SB0F-6137-0			PTF PROGRAM NUMBER 360S-DN-527
SB0F-6140-0			PTF PROGRAM NUMBER 360S-DN-533
SB0F-6143-0			PTF PROGRAM NUMBER 360S-DN-539
SB0F-6146-0			PTF PROGRAM NUMBER 360S-DN-554
SB0F-6149-0			PTF PROGRAM NUMBER 360S-EP-521
SB0F-6152-0			PTF PROGRAM NUMBER 360S-FO-500
SB0F-6155-0			PTF PROGRAM NUMBER 360S-FO-520
SB0F-6158-0			PTF PROGRAM NUMBER 360S-FO-550
SB0F-6161-0			PTF PROGRAM NUMBER 360S-IO-523
SB0F-6164-0			PTF PROGRAM NUMBER 360S-IO-526
SB0F-6167-0			PTF PROGRAM NUMBER 360S-LD-547
SB0F-6170-0			PTF PROGRAM NUMBER 360S-LM-501
SB0F-6173-0			PTF PROGRAM NUMBER 360S-LM-512
SB0F-6176-0			PTF PROGRAM NUMBER 360S-LM-525
SB0F-6179-0			PTF PROGRAM NUMBER 360S-LM-532
SB0F-6182-0			PTF PROGRAM NUMBER 360S-LM-537
SB0F-6185-0			PTF PROGRAM NUMBER 360S-LM-542
SB0F-6188-0			PTF PROGRAM NUMBER 360S-LM-546
SB0F-6192-0			PTF PROGRAM NUMBER 360S-NL-511
SB0F-6195-0			PTF PROGRAM NUMBER 360S-PL-552
SB0F-6198-0			PTF PROGRAM NUMBER 360S-PT-516
SB0F-6201-0			PTF PROGRAM NUMBER 360S-RC-536
SB0F-6204-0			PTF PROGRAM NUMBER 360S-RC-541
SB0F-6207-0			PTF PROGRAM NUMBER 360S-RC-543
SB0F-6210-0			PTF PROGRAM NUMBER 360S-RC-551
SB0F-6213-0			PTF PROGRAM NUMBER 360S-RG-038
SB0F-6216-0			PTF PROGRAM NUMBER 360S-SH-023
SB0F-6219-0			PTF PROGRAM NUMBER 360S-UT-506
SB0F-6222-0			PTF MODULE GENERATION - OS
SB0F-6225-0			PTF SERVICE AIDS OS
SB0F-6230-0			PTF PROGRAM NUMBER 360N-AS-465
SB0F-6232-0			PTF PROGRAM NUMBER 360N-AS-466
SB0F-6234-0			PTF PROGRAM NUMBER 360N-CB-452
SB0F-6236-0			PTF PROGRAM NUMBER 360N-CB-468
SB0F-6238-0			PTF PROGRAM NUMBER 360N-CB-482
SB0F-6240-0			PTF PROGRAM NUMBER 360N-CL-453
SB0F-6242-0			PTF PROGRAM NUMBER 360N-CQ-469
SB0F-6244-0			PTF PROGRAM NUMBER 360N-CQ-470
SB0F-6248-0			PTF PROGRAM NUMBER 360N-DH-481
SB0F-6250-0			PTF PROGRAM NUMBER 360N-EU-484
SB0F-6252-0			PTF PROGRAM NUMBER 360N-EU-485
SB0F-6254-0			PTF PROGRAM NUMBER 360N-FO-451
SB0F-6256-0			PTF PROGRAM NUMBER 360N-FO-479
SB0F-6258-0			PTF PROGRAM NUMBER 360N-IO-454
SB0F-6260-0			PTF PROGRAM NUMBER 360N-IO-455
SB0F-6262-0			PTF PROGRAM NUMBER 360N-IO-456
SB0F-6264-0			PTF PROGRAM NUMBER 360N-IO-457
SB0F-6266-0			PTF PROGRAM NUMBER 360N-IO-458
SB0F-6268-0			PTF PROGRAM NUMBER 360N-IO-476
SB0F-6270-0			PTF PROGRAM NUMBER 360N-IO-477
SB0F-6272-0			PTF PROGRAM NUMBER 360N-IO-478
SB0F-6274-0			PTF PROGRAM NUMBER 360N-PL-464
SB0F-6276-0			PTF PROGRAM NUMBER 360N-PT-459
SB0F-6278-0			PTF PROGRAM NUMBER 360N-RG-460
SB0F-6280-0			PTF PROGRAM NUMBER 360N-SH-400
SB0F-6282-0			PTF PROGRAM NUMBER 360N-SH-450
SB0F-6284-0			PTF PROGRAM NUMBER 360N-SH-483
SB0F-6286-0			PTF PROGRAM NUMBER 360N-SV-473
SB0F-6288-0			PTF PROGRAM NUMBER 360N-SV-474
SB0F-6290-0			PTF PROGRAM NUMBER 360N-SV-475
SB0F-6292-0			PTF PROGRAM NUMBER 360N-SV-486
SB0F-6294-0			PTF PROGRAM NUMBER 360N-SV-487
SB0F-6296-0			PTF PROGRAM NUMBER 360N-SV-488
SB0F-6298-0			PTF PROGRAM NUMBER 360N-UT-461
SB0F-6300-0			PTF PROGRAM NUMBER 360N-UT-462
SB0F-6302-0			PTF PROGRAM NUMBER 360N-UT-463
SB0F-6304-0			PTF PROGRAM NUMBER 360N-UT-471
SB0F-6306-0			PTF PROGRAM NUMBER 360N-UT-472
SB0F-6308-0			PTF SERVICE AIDS DOS
GB21-0001-0			GENERALIZED VEHICLE SCHEDULING PROGRAM (VSP) NETWORK FOR LOS ANGELES; FIELD DEVELOPED PROGRAM AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AAA
SB21-0002-0	SN20-6041		GENERALIZED VEHICLE SCHEDULING PROGRAM NETWORK FOR LOS ANGELES FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AAA
LB21-0003-0	LN20-6042		VEHICLE SCHEDULING PROGRAM GENERALIZED VSP NETWORK FOR LOS ANGELES, CALIFORNIA: FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER 5798-AAA
GB21-0010-0			2770/1255 REMOTE MICR ENTRY SYSTEM (UNDER DOS BTAM) - FDP AVAILABILITY NOTICE - PROG. NO. 5798-AAD
SB21-0011-0			2770/1255 REMOTE MICR ENTRY SYSTEM PROGRAM DESCRIPTION/OPERATION MANUAL PROGRAM NUMBER 5798-AAD
LB21-0012-0			2770/1255 REMOTE MICR ENTRY SYSTEM - SYSTEMS GUIDE PROGRAM NUMBER 5798-AAD

GB21-0019-0			VEHICLE MAINTENANCE AND COST ANALYSIS FIELD DEVELOPED PROGRAM AVAILABILITY NOTICE PROGRAM NUMBER 5798-AAG
SB21-0020-1#			VEHICLE MAINTENANCE AND COST ANALYSIS FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-AAG
SB21-0020-0#	SN20-6017	**SN20-6077	VEHICLE MAINTENANCE AND COST ANALYSIS FIELD DEVELOPED PROGRAM SYSTEMS GUIDE, PROGRAM NUMBER 5798-AAG
LB21-0021-0			PROGRAM REPORT INVENTORY SYSTEM - FIELD DEVELOPED PROGRAM AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AAK PROGRAM REPORT INVENTORY SYSTEM PROGRAM DESCRIPTION OPERATIONS MANUAL PROGRAM NUMBER 5798-AAK
GB21-0028-0			PROGRAM REPORT INVENTORY SYSTEM - SYSTEM GUIDE PROGRAM NUMBER 5798-AAK
SB21-0029-0			DISK OPERATING SYSTEM SORT EXIT ROUTINES FOR CS/30/40 FILES FIELD DEVELOPED PROGRAM - FLYER - PROGRAM NUMBER 5798-AAM DISK OPERATING SYSTEM SORT EXIT ROUTINES FOR CONTROL SYSTEM (CS)/30/40 FILES - FIELD DEVELOPED PROGRAM DESCRIPTION OPERATIONS MANUAL - PROGRAM NUMBER 5798-AAM
LB21-0030-0			DISK OPERATING SYSTEM SORT EXIT ROUTINES FOR CS/30/40 FILES SYSTEMS GUIDE - PROGRAM NUMBER 5798-AAM
GB21-0034-0			PUBLIC UTILITY FINANCIAL PLANNING SYSTEM AVAILABILITY NOTICE PROGRAM NUMBER 5798-AAQ
SB21-0035-0			PUBLIC UTILITY FINANCIAL PLANNING SYSTEM - FIELD DEVELOPED PROGRAM - PROGRAM DESCRIPTION OPERATIONS MANUAL PROGRAM NUMBER 5798-AAQ
LB21-0036-0			PUBLIC UTILITY FINANCIAL PLANNING SYSTEM GUIDE PROGRAM NUMBER 5798-AAQ
GB21-0043-1			SYSTEM MANAGEMENT FACILITY SELECTABLE ANALYZER AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AAR
SB21-0044-0			OPERATING SYSTEM/360 SYSTEM MANAGEMENT FACILITY SELECTABLE ANALYZER - PROGRAM DESCRIPTION/OPERATION MANUAL PROGRAM NUMBER 5798-AAR
LB21-0045-0			SYSTEM MANAGEMENT FACILITY ELECTABLE ANALYZER SYSTEMS GUIDE PROGRAM NUMBER 5798-AAR
GB21-0046-0			MINIMUM TELEPROCESSING COMMUNICATIONS SYSTEM AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AAY
SB21-0047-0			MINIMUM TELEPROCESSING COMMUNICATIONS SYSTEM MANUAL PROGRAM NUMBER 5798-AAY
LB21-0048-0			MINIMUM TELEPROCESSING COMMUNICATIONS SYSTEM MANUAL, PROGRAM NUMBER 5798-AAY
GB21-0061-0			FIELD DEVELOPED PROGRAM - SYSTEMS GUIDE USER ROLLIN/ROLLOUT AVAILABILITY NOTICE PROGRAM NUMBER 5798-ABA
SB21-0062-0	SN20-6011	SN20-6066	DISK OPERATING SYSTEM DYNAMIC ROLLOUT/ROLLIN FIELD DEVELOPED PROGRAM DESCRIPTION OPERATIONS MANUAL PROGRAM NUMBER 5798-ABA
LB21-0063-0	**SN20-6072		DISK OPERATING SYSTEM DYNAMIC ROLLOUT/ROLLIN PROGRAM NUMBER 5798-ABA - FIELD DEVELOPED PROGRAM SYSTEMS GUIDE
	LN20-6067		DATA CLASSIFICATION SYSTEM FOR THE SYSTEM/360 AVAILABILITY NOTICE - PROGRAM NUMBER 5798-ACC
GB21-0067-0			DATA CLASSIFICATION SYSTEM FOR THE SYSTEM/360 SYSTEMS GUIDE - PROGRAM NUMBER 5798-ACC
SB21-0068-0			PRODUCT AND INVENTORY COSTING WITH TRENDS FOR USER REPORTING AND EVALUATION (PICTURE) - DOS - FDP AVAILABILITY NOTICE, PROG. NO. 5798-ACL
LB21-0069-1			PRODUCT AND INVENTORY COSTING WITH TRENDS FOR USER REPORTING AND EVALUATION - PROGRAM NUMBER 5798-ACL
GB21-0136-1			PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-ACC
SB21-0137-0			DATA CLASSIFICATION SYSTEM FOR THE SYSTEM/360 SYSTEMS GUIDE - PROGRAM NUMBER 5798-ACC
LB21-0138-0			PRODUCT AND INVENTORY COSTING WITH TRENDS FOR USER REPORTING AND EVALUATION - SYSTEMS GUIDE - PROGRAM NUMBER 5798-ACL
GB21-0157-0			SHAS PENDING INSURANCE CLAIMS ACCOUNTING PROGRAMS (DOS) FDP AVAILABILITY NOTICE, PROG. NO. 5798-ADN
SB21-0158-0			SHAS PENDING INSURANCE CLAIMS - PROGRAM NUMBER 5798-ADN PROGRAM DESCRIPTION/OPERATIONS MANUAL
LB21-0159-0	LN20-6068		SHAS PENDING INSURANCE CLAIMS - PROGRAM NUMBERS 5798-ADN FIELD DEVELOPED PROGRAM - SYSTEMS GUIDE
GB21-0229-0			DOS 2311-2314/19 DASD DEVICE INDEPENDENCE ROUTINES AVAILABILITY NOTICE - PROGRAM NUMBER 5798-ADT
SB21-0230-0	SN20-6014		DOS 2311-2314/19 DASD DEVICE INDEPENDENCE ROUTINES PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-ADT
LB21-0231-0	LN20-6015	LN20-6090	DOS 2311-2314/19 DASD DEVICE INDEPENDENCE ROUTINES SYSTEMS GUIDE - PROGRAM NUMBER 5798-ADT
GB21-0238-0			TSO ON-LINE COBOL SYMBOLIC DEBUG - AVAILABILITY NOTICE PROGRAM NUMBER 5798-AEZ
SB21-0239-0	SN20-6018		TSO ON-LINE COBOL SYMBOLIC DEBUG PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-AEZ
LB21-0240-0	LN20-6022		TSO ON-LINE COBOL SYMBOLIC DEBUG - SYSTEMS GUIDE PROGRAM NUMBER 5798-AEZ
GB21-0283-0			OS ROTABLE CONTROL PROGRAM - FIELD DEVELOPED PROGRAM AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AFA
SB21-0284-0	SN20-6047		OS ROTABLE CONTROL PROGRAM - FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AFA
LB21-0285-0			OS ROTABLE CONTROL PROGRAM - FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER 5798-AFA
GB21-0313-0			DOS TOTABLE CONTROL PROGRAM - FOR AVAILABILITY NOTICE - PROG. NO. 5798-AFC
SB21-0314-0			PROGRAM NUMBER 5798-AFC
LB21-0315-0			IBM DISK OPERATING SYSTEM/360 ROTABLE CONTROL PROGRAM FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-AFC
GB21-0316-0			IBM DISK OPERATING SYSTEM/360 ROTABLE CONTROL PROGRAM FIELD DEVELOPED PROGRAM SYSTEMS GUIDE PROGRAM NUMBER 5798-AFC
SB21-0317-0			DOS APPLICATION DOCUMENTATION PROGRAM - FIELD DEVELOPED PROGRAM AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AFF
LB21-0318-0			DOS APPLICATION DOCUMENTATION PROGRAM - FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS - PROGRAM NUMBER 5798-AFF
GB21-0322-0			DOS APPLICATION DOCUMENTATION PROGRAM - FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER 5798-AFF
SB21-0323-0			DOS TO OS ASSEMBLER LANGUAGE MACRO CONVERSION FIELD DEVELOPED PROGRAM AVAILABILITY NOTICE PROGRAM NUMBER 5798-AFL
LB21-0324-0			DOS TO OS ASSEMBLER LANGUAGE MACRO CONVERSION FIELD DEVELOPED PROGRAM PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-AFL
GB21-0334-0			
**SB21-0335-1#			
SB21-0335-0#	SN20-6091		

LB21-0336-0	**LN20-6100		DOS TO OS ASSEMBLER LANGUAGE MACRO CONVERSION - FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER 5798-AFL
GB21-0387-0			HONEYWELL 200 SERIES COBOL TO IBM ANS COBOL CONVERSION AIDS
GB21-0393-0			FDP AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AGC
SB21-0394-0			IBGS - INTERACTIVE BUSINESS GAME SIMULATION - A GENERAL BUSINESS SIMULATION FOR APL/360 - PROGRAM NUMBER 5798-AGM
**LB21-0395-0			FIELD DEVELOPED PROGRAM-AVAILABILITY NOTICE
GB21-0411-0			IBGS - INTERACTIVE BUSINESS GAME SIMULATION - A GENERAL BUSINESS SIMULATION FOR APL/360 - FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AGM
SB21-0412-0			IBGS - INTERACTIVE BUSINESS GAME SIMULATION - A GENERAL BUSINESS SIMULATION FOR APL/360 - FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AGM
LB21-0413-0			IBGS - INTERACTIVE BUSINESS GAME SIMULATION - A GENERAL BUSINESS SIMULATION FOR APL/360 - FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER 5798-AGM
GB21-0432-0			GRAPHPAK - INTERACTIVE GRAPHICS PACKAGE FOR APL/360 FIELD DEVELOPED PROGRAMS-AVAILABILITY NOTICE PROGRAM NUMBER 5798-AGK
SB21-0433-0			GRAPHPAK - INTERACTIVE GRAPHICS PACKAGE FOR APL/360 FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-AGK
LB21-0434-0			GRAPHPAK - INTERACTIVE GRAPHICS PACKAGE FOR APL/360 FIELD DEVELOPED PROGRAMS-AVAILABILITY NOTICE PROGRAM NUMBER 5798-AGK
GB21-0450-0			ANALYTICAL PROCESSING TECHNIQUE (APT) UNDER CP-67/CMS FIELD DEVELOPED PROGRAM - AVAILABILITY NOTICE PROGRAM NUMBER 5798-AGD
SB21-0451-0			APT UNDER CP/CMS - PROGRAM NUMBER 5798-AGD
LB21-0452-0	**LN20-6098		APT UNDER CP/CMS - PROGRAM NUMBER 5798-AGD
GB21-0490-0			FIELD DEVELOPED PROGRAM-SYSTEMS GUIDE
GB21-0505-0			DOS TIME ACCOUNTING AND BILLING - FIELD DEVELOPED PROGRAMS-AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AHB
SB21-0506-0			DOS TIME ACCOUNTING AND BILLING - FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AHB
LB21-0507-0			DOS TIME ACCOUNTING AND BILLING - FIELD DEVELOPED PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AHB
**GB21-0541-0			UNIVAC 9300 COBOL TO IBM ANS COBOL CONVERSION AID
**SB21-0542-0			FDP AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AHP
**LB21-0543-0			CUSTOMER INFORMATION FILE USING DOS/CICS
GB21-0553-0			FDP - AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AHX
SB21-0554-0			CUSTOMER INFORMATION FILE USING DOS/CICS
LB21-0555-0			FDP - AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AHX
SB21-0557-0			CUSTOMER INFORMATION FILE USING DOS/CICS
LB21-0558-0			FDP - PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-AHX
SB21-0560-0			CUSTOMER INFORMATION FILE USING DOS/CICS
LB21-0561-0			FDP - SYSTEMS GUIDE - PROGRAM NUMBER 5798-AHX
**SB21-0574-0			LEASE VS. PURCHASE ANALYSIS OF CAPITAL EXPENDITURES FDP AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AJK
**SB21-0575-0			LEASE VS. PURCHASE ANALYSIS OF CAPITAL EXPENDITURES PROGRAM DESCRIPTION/OPERATIONS MANUAL - FDP NUMBER 5798-AJK
**LB21-0576-0			LEASE VS. PURCHASE ANALYSIS OF CAPITAL EXPENDITURES SYSTEMS GUIDE - FDP NUMBER 5798-AJK
**GB21-0620-0			OPERATOR TRAINING - DOS CONSOLE SIMULATION DRILLS: BASIC TRAINING COURSE A3609 (PROG. NO. 5798-AJM), CUSTOMER PROBLEM DETERMINATION COURSE A3611 (PROG. NO. 5798-AJN), AND MULTIPROGRAMMING COURSE A3612 (PROG. NO. 5798-AJP)
**SB21-0621-0			FIELD DEVELOPED PROGRAMS-AVAILABILITY NOTICE
**LB21-0622-1			DOS BASIC OPERATOR TRAINING - PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AJM
**GB21-0686-0			DOS BASIC OPERATOR TRAINING - SYSTEMS GUIDE
**SB21-0687-0			FIELD DEVELOPED PROGRAM - PROGRAM NUMBER 5798-AJM
**LB21-0688-0			DOS CUSTOMER PROBLEM DETERMINATION OPERATOR TRAINING PROGRAM DESCRIPTION/OPERATIONS MANUAL - FIELD DEVELOPED PROGRAM - PROGRAM NUMBER 5798-AJN
GB21-9981-0			DOS CUSTOMER PROBLEM DETERMINATION OPERATOR TRAINING FIELD DEVELOPED PROGRAM SYSTEMS GUIDE - PROGRAM NUMBER 5798-AJN
GB21-9985-0			DOS MULTIPROGRAMMING OPERATOR TRAINING - FIELD DEVELOPED PROGRAM - PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5798-AJP
**GB21-9986-0			DOS MULTIPROGRAMMING OPERATOR TRAINING - SYSTEMS GUIDE
LCB6-3772-1			FIELD DEVELOPED PROGRAM - PROGRAM NUMBER 5798-AJP
LCB6-6757-2			OS/360/370 JOB CONTROL LANGUAGE DEVICE DEPENDENT PARAMETER CONVERSION AND REPLACEMENT (DDPREP) AVAILABILITY NOTICE FDP NUMBER 5798-AJU
GCB8-6796-0			OS/360/370 JOB CONTROL LANGUAGE DEVICE DEPENDENT PARAMETER CONVERSION AND REPLACEMENT (DDPREP) PROGRAM DESCRIPTION/OPERATIONS MANUAL - FDP NUMBER 5798-AJU
GCB8-6797-0			OS/360/370 JOB CONTROL LANGUAGE DEVICE DEPENDENT PARAMETER CONVERSION AND REPLACEMENT (DDPREP) - SYSTEMS GUIDE - FDP NUMBER 5798-AJU
GCB8-6798-0			3270 FORMAT MACRO FOR OUTPUT DATA STREAMS FDP - AVAILABILITY NOTICE - PROGRAM NUMBER 5798-AKL
GCB8-6799-0			3270 FORMAT MACRO FOR OUTPUT DATA STREAMS FDP - PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5798-AKL
GC19-0001-4*	GN19-0060	GN19-0062	3270 FORMAT MACRO FOR OUTPUT DATA STREAMS FDP - SYSTEMS GUIDE - PROGRAM NUMBER 5798-AKL
GC19-0004-1*	GN19-0069	GN19-0078	DOS 2311/14/19 - 3330 DASD DEVICE INDEPENDENCE ROUTINES AVAILABILITY NOTICE - FDP NUMBER 5798-ALK
	GN19-0079	GN19-0105	DOS 2311/14/19-3330 DASD DEVICE INDEPENDENCE ROUTINES PROGRAM DESCRIPTION/OPERATIONS MANUAL - FDP NUMBER 5798-ALK
	GN19-0104		DOS 2311/14/19-3330 DASD DEVICE INDEPENDENCE ROUTINES SYSTEMS GUIDE - FDP NUMBER 5798-ALK
GC20-1618-5*			VEHICLE MAINTENANCE AND COST ANALYSIS SYSTEM - MARKETING GUIDE - PROGRAM NUMBER 5798-AAG
GC20-1618-4*			TIME SHARING OPTION ON-LINE COBOL SYMBOLIC DEBUG REQUESTS REFERENCE CARD
GC20-1619-8	**GN20-0030-28		SMF SELECTABLE ANALYZER AND ACCOUNTING FOR DP OPERATIONS
SC20-1637-3			IBM SYSTEM/360 OS ASSEMBLER H - PROGRAM NUMBER 5734-AS1
SC20-1646-6			SYSTEM/360 DISK OPERATING SYSTEM SORT/MERGE PROGRAM NUMBER 5736-SM1
			IBM 2947-4 CHECK COLLECTION CONTROLLER (RQ #888264) SEQUENTIAL ACCESS METHOD (CSAM) MAIN MODULE-DOS MICROFICHE LISTING
			IBM 2947-4 CHECK COLLECTION CONTROLLER (RQ #888264) SEQUENTIAL ACCESS METHOD (CSAM) ERR MODULE-DOS MICROFICHE LISTING - PROGRAM NUMBER 5799-WAF
			IBM 2947-4 CHECK COLLECTION CONTROLLER (RQ #888264) SEQUENTIAL ACCESS METHOD (CSAM) MAIN MODULE-OS MICROFICHE LISTING - PROGRAM NUMBER 5799-WAG
			IBM 2947-4 CHECK COLLECTION CONTROLLER (RQ #888264) SEQUENTIAL ACCESS METHOD (CSAM) ERR MODULE-OS MICROFICHE LISTING - PROGRAM NUMBER 5799-WAG
			IBM SYSTEM/360 INSTALLATION MANUAL - PHYSICAL PLANNING
			IBM WORLD TRADE 50-HERTZ REQUIREMENTS
			IBM SYSTEM/370 WORLD TRADE INSTALLATION MANUAL--PHYSICAL PLANNING - SYSTEMS REFERENCE LIBRARY NUMBER SYSTEMS
			CATALOG OF PROGRAMS FOR IBM SYSTEM/360 MODELS 25 AND ABOVE A GUIDE TO PL/I FOR FORTRAN USERS
			A PROGRAMMER'S INTRODUCTION TO IBM SYSTEM/360 ASSEMBLER LANGUAGE

GC20-1649-5#			INTRODUCTION TO IBM SYSTEM/360 DIRECT ACCESS STORAGE DEVICES AND ORGANIZATION METHODS
GC20-1649-4#			IBM SYSTEM/360 MODEL 30 1401 COMPATIBILITY MODE
GC20-1650-1	GN20-1076		OPERATOR'S MANUAL A GUIDE TO PL/I FOR COMMERCIAL PROGRAMMERS COURSE CODE P3668
SC20-1651-2			INTRODUCTION TO IBM SYSTEM/360 ARCHITECTURE AN INTRODUCTION TO IBM DATA PROCESSING SYSTEMS
GC20-1667-1			SYSTEM/360 DISK OPERATING SYSTEM USER'S GUIDE: CONTROL STATEMENT TECHNIQUES
GC20-1684-3#			IBM 2260 DISPLAY STATION OPERATOR MANUAL
GC20-1684-2#			
GC20-1685-1			
GC20-1688-3#			
GC20-1688-2#			
SC20-1689-1			AN INTRODUCTION TO THE COMPILE-TIME FACILITIES OF PL/I
GC20-1699-2			A DATA PROCESSING GLOSSARY
GC20-1706-1			COURSEWRITER III
GC20-1729-1	GN20-2544		A GUIDE TO THE IBM SYSTEM/370 MODEL 155
GC20-1730-1			A GUIDE TO THE IBM SYSTEM/370 MODEL 165
GC20-1734-1			A GUIDE TO THE IBM SYSTEM/370 MODEL 145
GC20-1738-3	**GN20-2795		A GUIDE TO THE SYSTEM/370 MODEL 135
GC20-1740-1			BIBLIOGRAPHY OF APPLICATION PUBLICATIONS - STATE AND LOCAL GOVERNMENT INDUSTRY
GC20-1744-0			COURSEWRITER III, VERSION 3 STUDENT TEXT
GC20-1747-0			PROGRAM NUMBERS 5734-E13, 5736-E11
GC20-1751-0			BIBLIOGRAPHY OF APPLICATION PUBLICATIONS EDUCATION INDUSTRY
GC20-0011-0			IBM 3801 OPTICAL MARK READER SYSTEMS DESIGN GUIDE
GC20-0078-0			RANDOM NUMBER GENERATION AND TESTING
SC20-0092-1#			FORM AND CARD DESIGN
GC20-0152-1			SYSTEM/360 DOS OPERATION TRAINING MANUAL
GC21-5000-1	GN20-0219		COURSE CODE A3650 FLOWCHARTING TECHNIQUES
GC21-5001-1			IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT FORTRAN IV (CARD) PROGRAMMER'S GUIDE PROGRAM NUMBER 360P-FO-205
GC21-5004-2			IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT DISTRIBUTION PROGRAM SPECIFICATIONS AND OPERATING GUIDE PROGRAM NUMBER 360P-UT-208
SC21-5005-2#	SN21-5162	**SN21-5164	IBM OS IBM 1285, 1207 AND 1208 OPTICAL READERS
SC21-5005-1#			DATA MANAGEMENT MACROS AND SERVICES - SYSTEMS REFERENCE LIBRARY MANUAL
SC21-5005-0#			IBM DOS RPG II LANGUAGE - SYSTEMS REFERENCE LIBRARY MANUAL
GC21-5006-1	GN21-5125	GN21-5127	PROGRAM NUMBER 5736-RG1
	GN21-5134	GN21-5137	IBM SYSTEM/360 OPERATING SYSTEM IBM 1419/1275
	GN26-0636		DATA MANAGEMENT MACRO INSTRUCTIONS AND SERVICES
GC21-5008-0			IBM SYSTEM/360 OPERATING SYSTEM PLANNING FOR THE IBM 3211 PRINTER DATA MANAGEMENT MACRO INSTRUCTIONS AND SERVICES
SC21-5013-0			IBM SYSTEM/360 DISK OPERATING SYSTEM
GC21-5014-0			IBM 1288 BASIC UNFORMATTED READ SYSTEM: A DATA CAPTURE UTILITY PROGRAM PROGRAM NUMBER 5736-UT1
GC21-5019-0			IBM SYSTEM/360 OPERATING SYSTEM
GC21-5020-0			IBM 1288 BASIC UNFORMATTED READ SYSTEM: A DATA CAPTURE UTILITY PROGRAM PROGRAM NUMBER 5736-UT3
GC21-5021-1			IBM SYSTEM/360 DOS 1288 BASIC UNFORMATTED READ SYSTEM A DATA CAPTURE UTILITY PROGRAM PROGRAM NUMBER 5736-UT1
GC21-5027-0			IBM SYSTEM/360 OPERATING SYSTEM IBM 1288 BASIC UNFORMATTED READ SYSTEM PROGRAM NUMBER 5734-UT3
GC21-5028-3+			IBM DOS RPG II GENERAL INFORMATION MANUAL PROGRAM NUMBER 5736-RG1
SC21-5033-0			IBM SYSTEM/360 OPERATING SYSTEM: PLANNING FOR THE IBM 3505 CARD READER AND 3525 CARD PUNCH
GC21-5034-0			IBM DISK OPERATING SYSTEM RPG II PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-RG1
GC21-5047-0			IBM SYSTEM/360 DISK OPERATING SYSTEM RPG TO RPG II CONVERSION REFERENCE MANUAL
GC21-5052-0			IBM SYSTEM/360 DISK OPERATING SYSTEM: PLANNING FOR THE IBM 3505 CARD READER AND THE IBM 3525 CARD PUNCH
SC21-5056-0			IBM 2596 CARD READ PUNCH DOS PROGRAM PLANNING GUIDE
GC21-5063-0			IBM DISK OPERATING SYSTEM RPG II AUTO REPORT FEATURE GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5736-RG1
GC21-7514-1			IBM DOS RPG II AUTO REPORT FEATURE - REFERENCE MANUAL
GC21-9040-1	GN20-0223		PROGRAM NUMBER 5736-RG1 DOS PROGRAMMING SUPPORT FOR IBM 2596 CARD READ PUNCH
** GC22-6820-11			INTRODUCTION TO RPG II
GC22-6922-1			IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SPECIFICATIONS FORTRAN IV (16K CARD)
GC22-6939-0			IBM SYSTEM/360 INSTALLATION MANUAL - PHYSICAL PLANNING
GC22-7004-1	GN22-0435		IBM 2911 MODELS 1, 2, AND 5 AND IBM 2989 MODEL 8, INSTALLATION MANUAL - PHYSICAL PLANNING
GC24-3320-7			IBM SYSTEM/360 SPECIAL FEATURE: 2680 CRT PRINTER INSTALLATION MANUAL PHYSICAL PLANNING
GC24-3321-4	GN20-2389		IBM SYSTEM/370 INSTALLATION MANUAL--PHYSICAL PLANNING
GC24-3337-5#			SYSTEMS REFERENCE LIBRARY
GC24-3337-4#			IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SORT/MERGE PROGRAMS SPECIFICATIONS PROGRAMS: 1 - CHANNEL - 360P-SM-043 2 - CHANNEL - 360P-SM-044
GC24-3343-3#			IBM SYSTEM/360 BASIC OPERATING SYSTEM SORT/MERGE PROGRAM SPECIFICATIONS
GC24-3343-2#			PROGRAM NUMBER 360B-SM-308
GC24-3345-3			IBM SYSTEM/360 OPERATING SYSTEM REPORT PROGRAM GENERATOR LANGUAGE SPECIFICATION SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBER 360S-RG-030
GC24-3354-7	GN33-8596	GN33-8569	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT AUTOTEST SPECIFICATIONS (8K TAPE) PROGRAM NUMBER 360P-PT-045
GC24-3355-7			IBM 1401/1460 TIKING PROGRAMS FOR IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SORT/MERGE PROGRAMS (8K TAPE)
GC24-3361-6	GN33-8608	GN33-8564	PROGRAM 1401-LM-070, VERSION 2 (2401-2404)
GN33-8571	GN33-8633		PROGRAM 1401-LM-080, VERSION 1 (2415)
GC24-3363-6	GN33-8638		IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC TAPE SYSTEM PROGRAMMER'S GUIDE PROGRAM NUMBER 360P-AS-091
			IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT ASSEMBLER WITH INPUT/OUTPUT MACROS (TAPE) SPECIFICATIONS
			SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBER 360P-AS-021
			IBM SYSTEM/360 BASIC OPERATING SYSTEM ASSEMBLER WITH INPUT/OUTPUT MACROS SPECIFICATIONS
			PROGRAM NUMBER 360B-AS-309
			IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT DASD UTILITY PROGRAMS SPECIFICATIONS

GC24-3364-3	GN33-8639		IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC OPERATING SYSTEM MACRO DEFINITION LANGUAGE
GC24-3372-6	GN33-8605 GN33-8572 GN33-8531 GN24-5336	GN33-8565 GN33-8544 GN24-5328 GN33-8634	IBM SYSTEM/360 BASIC OPERATING SYSTEM PROGRAMMER'S GUIDE
GC24-3374-2			IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SPECIFICATIONS REPORT PROGRAM GENERATOR (CARD)
GC24-3377-0			IBM 1401/1460 TIMING PROGRAM FOR IBM BASIC OPERATING SYSTEM/360 SORT/MERGE PROGRAM PROGRAM 1401-LM-079
GC24-3378-2	GN33-8583 GN21-5011	GN21-5070 GN21-5041	IBM SYSTEM/360 BASIC OPERATING SYSTEM SPECIFICATIONS AUTOTEST (8K DISK) PROGRAM NUMBER 360B-PT-306
GC24-3387-5#			IBM SYSTEM/360 BASIC OPERATING SYSTEM REPORT PROGRAM GENERATOR SPECIFICATIONS PROGRAM NUMBER 360B-RG-307
GC24-3391-4	GN33-8573 GN33-8640	GN33-8562	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC TAPE SYSTEM OPERATING GUIDE PROGRAM NUMBER 360P-AS-091 RPG PROGRAM NUMBER 360P-RG-201
GC24-3392-8	GN33-8641		IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT DASD UTILITY PROGRAMS OPERATING GUIDE
GC24-3396-4#			IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT UNIVERSAL CHARACTER SET UTILITY PROGRAM OPERATING GUIDE PROGRAM NUMBER 360P-UT-048
GC24-3396-3#			
GC24-3398-4	GN33-8574	GN24-5228	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT INPUT/OUTPUT 1412/1419 SPECIFICATIONS AND OPERATING GUIDE PROGRAM NUMBER 360P-IO-058
GC24-3400-2	GN33-8575		IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT INPUT/OUTPUT 1231 SPECIFICATIONS AND OPERATING GUIDE PROGRAM NUMBER: 360P-IO-060
GC24-3409-3	GN20-2338		IBM SYSTEM/360 BASIC OPERATING SYSTEM UTILITY PROGRAMS SPECIFICATIONS PROGRAM NUMBERS 360B-UT-300, 360B-UT-301
GC24-3413-3			IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT SORT/MERGE PROGRAMS OPERATING GUIDE PROGRAMS: 1 - CHANNEL - 360P-SM-043 2 - CHANNEL - 360P-SM-044
GC24-3414-8	GN33-8134	GN33-8118	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEM ASSEMBLER LANGUAGE
GC24-3417-3#	GN33-8642		IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT AUTOTEST OPERATING GUIDE PROGRAM NUMBER 360P-PT-045
GC24-3417-2#	GN21-5069	GN21-5026	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT REPORT PROGRAM GENERATOR (TAPE) SPECIFICATIONS PROGRAM NUMBER 360P-RG-201
GC24-3418-3			IBM SYSTEM/360 DISK OPERATING SYSTEM DATA MANAGEMENT CONCEPTS SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBER 360N-CL-453
GC24-3427-7	GN24-5430	GN33-8691	IBM SYSTEM/360 TAPE OPERATING SYSTEM, DATA MANAGEMENT CONCEPTS
GC24-3430-3			IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS COBOL LANGUAGE SPECIFICATIONS COBOL DOS PROGRAM NUMBER 360N-CB-452 COBOL TOS PROGRAM NUMBER 360M-CB-402
GC24-3433-5	GN20-0245 GN20-0407	GN20-0256 GN20-0471	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT INPUT/OUTPUT 1418/1428 SPECIFICATIONS AND OPERATING GUIDE PROGRAM NUMBER 360P-IO-059
GC24-3437-2	GN33-8576	GN24-5350	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS TAPE SORT/MERGE PROGRAM PROGRAM NUMBERS 360M-SM-400 360N-SM-400
GC24-3438-4	GN33-8085		IBM 1401/1460 TIMING PROGRAM FOR IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS TAPE/SORT MERGE PROGRAM PROGRAM NUMBER 1401-LM-010 (2401-2404) PROGRAM NUMBER 1401-LM-012 (2415)
GC24-3439-3			IBM SYSTEM/360 TAPE OPERATING SYSTEM AUTOTEST SPECIFICATIONS PROGRAM NUMBER 360M-PT-407
GC24-3441-3	GN33-8585 GN21-5074	GN21-5080 GN21-5054	IBM SYSTEM/360 DISK OPERATING SYSTEM DISK SORT/MERGE PROGRAM PROGRAM NUMBER 360M-SM-450
GC24-3444-5			IBM 1401/1460 TIMING PROGRAM FOR IBM SYSTEM/360 DISK OPERATING SYSTEM SORT/MERGE PROGRAM PROGRAM NUMBER 1401-LM-011
GC24-3445-2			IBM SYSTEM/360 BASIC OPERATING SYSTEM OPERATING GUIDE SYSTEMS REFERENCE LIBRARY
GC24-3450-3	GN33-8566 GN33-8533 GN21-5106	GN33-8577	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT REPORT PROGRAM GENERATOR (CARD) OPERATING GUIDE SYSTEMS REFERENCE LIBRARY
GC24-3464-2			IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS UTILITY PROGRAMS SPECIFICATIONS PROGRAM NUMBERS 360N-UT-461, 462, 463
GC24-3465-7			IBM SYSTEM/360 TAPE OPERATING SYSTEM, SYSTEM GENERATION AND MAINTENANCE
GC24-5015-6	GN24-5450		IBM SYSTEM/360, TAPE OPERATING SYSTEM, PERFORMANCE ESTIMATES IBM SYSTEM/360, TAPE OPERATING SYSTEM, OPERATING GUIDE
GC24-5020-5			IBM SYSTEM/360 DISK OPERATING SYSTEM OPERATING GUIDE PROGRAM NUMBER 360N-CL-453
GC24-5021-4			IBM SYSTEM/360 BASIC OPERATING SYSTEM OPERATOR MESSAGES SYSTEMS REFERENCE LIBRARY
GC24-5022-11	GN33-8688		
GC24-5024-4#			
GC24-5024-3#	GN33-8609 GN33-8578 GN33-8635	GN33-8563 GN33-8537	
GC24-5025-5	GN20-0253 GN20-0406 **GN20-0495 GN20-2340	GN20-0259 GN20-0430	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS COBOL PROGRAMMER'S GUIDE PROGRAM NUMBERS 360N-CB-452 360M-CB-402
GC24-5026-2			IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT CARD AND TAPE UTILITY PROGRAMS SPECIFICATIONS
GC24-5027-4	GN33-8658		IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT CARD AND TAPE UTILITY PROGRAMS OPERATING GUIDE
GC24-5029-3	GN20-0240 GN20-0264 GN33-0700	GN20-0247 GN20-0426 GN33-8682	IBM SYSTEM/360 OPERATING SYSTEM COBOL (E) PROGRAMMER'S GUIDE PROGRAM NUMBER 360S-CO-503
GC24-5030-10			IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS CONCEPTS AND FACILITIES
GC24-5033-11	GN24-5434 GN33-0702	GN33-8680	IBM SYSTEM/360 DISK OPERATING SYSTEM: SYSTEM GENERATION AND MAINTENANCE
GC24-5034-2			IBM SYSTEM/360 TAPE OPERATING SYSTEM, SYSTEM CONTROL AND SYSTEM SERVICE PROGRAMS
GC24-5035-4			IBM SYSTEM/360, TAPE OPERATING SYSTEM, SUPERVISOR AND INPUT/OUTPUT MACROS
GC24-5036-7			IBM SYSTEM/360 DISK OPERATING SYSTEM: SYSTEM CONTROL AND SYSTEM SERVICE PROGRAMS PROGRAM NUMBERS BEGINNING WITH 360N-
GC24-5037-11#			IBM SYSTEM/360 DISK OPERATING SYSTEM SUPERVISOR AND INPUT/OUTPUT MACROS
GC24-5037-10#	GN24-5435	GN33-8689	SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBER 360N-CL-453
GC24-5038-3	GN20-0444		IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS BASIC FORTRAN IV PROGRAMMERS GUIDE
GC24-5039-1			PROGRAM NUMBERS 360N-FO-451 AND 360M-FO-409 IBM SYSTEM/360 DISK OPERATING SYSTEM COBOL DASD MACROS PROGRAM NUMBER 360N-CB-468

GC24-5041-2			IBM SYSTEM/360 BASIC OPERATING SYSTEM, MASTER INDEX
GC24-5042-6	GN33-8697		DOS AND TOS UTILITY MACROS - SYSTEMS REFERENCE LIBRARY
GC24-5061-4	GN33-8636		MANUAL - PROGRAM NUMBERS 360N-UT-411 AND 360N-UT-471 IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC TAPE SYSTEM SYSTEM GENERATION AND MAINTENANCE PROGRAM NUMBER 360P-AS-091
GC24-5062-1			IBM SYSTEM/360 DISK OPERATING SYSTEM AUTOTEST SPECIFICATIONS
GC24-5063-4			DISK OPERATING SYSTEM/360 MASTER INDEX SYSTEMS REFERENCE LIBRARY MANUAL
GC24-5064-1			IBM SYSTEM/360 TAPE OPERATING SYSTEM, PROGRAMMING INDEX
GC24-5066-3	GN24-5452		IBM SYSTEM/360, DISK AND TAPE OPERATING SYSTEM, ON-LINE TEST EXECUTIVE PROGRAM, SPECIFICATIONS AND OPERATING GUIDE, PROGRAM NUMBER FOR DOS 360N-DN-481 TOS 360N-DN-418
GC24-5067-1			IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT MASTER INDEX
GC24-5069-0	GN33-8607	GN33-8590	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT MODULAR FILE MAINTENANCE PROGRAM SPECIFICATIONS AND OPERATING GUIDE PROGRAM NUMBER 360P-UT-219
GC24-5070-2	GN24-5426	GN33-8683	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT, BASIC OPERATING SYSTEM, TAPE OPERATING SYSTEM, DISK OPERATING SYSTEM, TAPE LABELS SYSTEMS REFERENCE LIBRARY MANUAL
GC24-5072-1	GN33-8690		IBM SYSTEM/360 DISK OPERATING SYSTEM, DASD LABELS
GC24-5073-2			DISK OPERATING SYSTEM SYSTEM PROGRAMMER'S GUIDE
GC24-5074-4			SYSTEM/360 DISK OPERATING SYSTEM MESSAGES SYSTEMS REFERENCE LIBRARY MANUAL
GC24-5082-0			SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBER 360N-CL-453
GC24-5086-3			IBM SYSTEM/360 DOS TO OS MANAGEMENT PLANNING GUIDE DOS OLTEP PROGRAM - SYSTEM REFERENCE LIBRARY MANUAL PROGRAM NUMBER 360N-DN-481
GC24-6000-0	GN24-5453		IBM SYSTEM/360 DOS-TO-OS IMPLEMENTATION GUIDE SYSTEM REFERENCE LIBRARY MANUAL
GC24-9005-6	GN33-9124	GN33-9130	DOS AND TOS PL/I (D) COMPILER PROGRAMMER'S GUIDE PL/I - PROGRAMMER'S GUIDE
GC26-3564-2	GN33-9129		IBM SYSTEM/360 CONVERSION AIDS: THE 1401/1440/1460 TAPE OVERLAP EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 30, PROGRAM NUMBER 360C-EU-097
GC26-3570-7			IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS REPORT PROGRAM GENERATOR SPECIFICATIONS
GC26-3627-1			IBM SYSTEM/360 BASIC OPERATING SYSTEM 1070 PROCESS COMMUNICATION SUPERVISOR OPERATING GUIDE PROGRAM NUMBER 360B-SV-032
GC26-3734-0			IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION: TSO ASSEMBLER PROMPTER DESIGN OBJECTIVES, PROGRAM 5734-CP2
GC26-3735-1			IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H DESIGN OBJECTIVES SHEET, PROGRAM NUMBER 5734-AS1
SC26-3740-0			OS TSO ASSEMBLER PROMPTER USER'S GUIDE, PROG. NO. 5734-CP2
GC26-3743-1			IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H SPECIFICATION SHEET, PROGRAM NUMBER 5734-AS1
GC26-3746-1			OS DATA MANAGEMENT SERVICES GUIDE - SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBERS 360S-AS-036,037 360S-DH-500,509 360S-IO-526
GC26-3756-6			IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER (F) PROGRAMMER'S GUIDE - PROGRAM NUMBER 360S-AS-037
GC26-3758-1#	GN33-8094	GN33-8121	IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER (H) PROGRAM PRODUCT GENERAL INFORMATION PROGRAM NUMBER 5734-AS1
GC26-3758-0#			IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H PROGRAMMER'S GUIDE PROGRAM NUMBER 5734-AS1
SC26-3759-0	SN33-8095	SN33-8124	IBM 2740/2968 AUDIO-VISUAL CONTROL USER'S GUIDE RPQ NUMBER F30209
GC26-3767-0			IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H SYSTEM INFORMATION (PROGRAM NUMBER 5734-AS1)
SC26-3768-1	SN33-8126		IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H MESSAGES PROGRAM NUMBER 5734-AS1
SC26-3770-0	SN33-8093	SN33-8123	IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H LANGUAGE SPECIFICATIONS PROGRAM NUMBER 5734-AS1
GC26-3771-1	GN33-8125		EMULATING DOS ON IBM SYSTEM/370 UNDER OS SYSTEM REFERENCE LIBRARY MANUAL - PROGRAM NUMBER 360C-EU-738
GC26-3777-2+			IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION ASSEMBLER PROMPTER PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-CP2
GC26-3782-0			OS DATA MANAGEMENT MACRO INSTRUCTIONS - SYSTEMS REFERENCE LIBRARY - LIBRARY MANUAL - PROGRAM NUMBERS 360S-DH-500, 509 360S-IO-526
GC26-3794-0			OS TESTRAM SYSTEM INFORMATION - SYSTEMS REFERENCE LIBRARY PROGRAM NUMBER 360S-PT-516
GC26-3796-0			IBM 1130 SUBROUTINE LIBRARY FOR USE WITH THE DISK MONITOR SYSTEM, VERSION 2 MODIFICATION LEVEL 9 PROGRAM NUMBERS 1130-OS-005, 1130-OS-006,
GC26-5929-6	GN34-0048	GN33-8112	IBM SYSTEM/360 RPG TRANSLATOR IBM SYSTEM/360 CONVERSION AIDS: THE 7074 EMULATOR PROGRAM FOR IBM SYSTEM/360, MODELS 50 AND 65, PROGRAM NUMBER 360C-EU-725 SYSTEMS REFERENCE LIBRARY
GC26-5999-1	GN27-1323	GN27-1340	IBM SYSTEM/360 OPERATING SYSTEM, GRAPHIC PROGRAMMING SERVICES FOR IBM 2250 DISPLAY UNIT, PROGRAM NUMBER 360S-IO-523
GC27-6900-3	GN27-1361		IBM SYSTEM/360 CONVERSION AIDS: THE 7080 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 65, PROGRAM NUMBER 360C-EU-727 SYSTEMS REFERENCE LIBRARY
GC27-6909-5	GN27-1328	GN27-1366	IBM SYSTEM/360 OPERATING SYSTEM GRAPHIC PROGRAMMING SERVICES FOR IBM 2260 DISPLAY STATION (LOCAL ATTACHMENT) PROGRAM NUMBER 360S-IO-523
GC27-6911-2	GN27-1320	GN27-1307	IBM SYSTEM/360 OPERATING SYSTEM: MAINTENANCE PROGRAM; PROGRAM NUMBER 360S-UT-506
GC27-6912-8	GN27-1286	GN27-1357	IBM SYSTEM/360 DISK OPERATING SYSTEM VOCABULARY FILE UTILITY PROGRAM FOR THE IBM 772 AUDIO RESPONSE UNIT PROGRAM NUMBER 360N-UT-472
GC27-6918-3			IBM SYSTEM/360 OPERATING SYSTEM GRAPHIC PROGRAMMING SERVICES FOR IBM 2280 AND 2282 FILM UNITS PROGRAM NUMBER 360S-IO-523
GC27-6924-2			IBM SYSTEM/360 CONVERSION AIDS: SAMPLE PROBLEMS FOR IBM SYSTEM/360 EMULATOR PROGRAMS PROGRAM NUMBERS: 360C-EU-074 360C-EU-726 360C-EU-729 360C-EU-097 360C-EU-727 360C-EU-731 360C-EU-725 360C-EU-728 360C-EU-733
GC27-6927-1			IBM SYSTEM/360 OPERATING SYSTEM, GRAPHIC SUBROUTINE PACKAGE (GSP) FOR FORTRAN IV, COBOL, AND PL/I, PROGRAM NUMBER 360S-LN-537
GC27-6929-0			IBM SYSTEM/360 OPERATING SYSTEM USER'S GUIDE FOR JOB CONTROL FROM THE IBM 2250 DISPLAY UNIT, PROGRAM NUMBER 360S-RC-541
GC27-6932-3	GN27-1313	GN27-1331	IBM SYSTEM/360 OPERATING SYSTEM PLANNING FOR ROLLOUT/ROLLIN
GC27-6933-3	GN27-1371		
GC27-6935-0			

GC27-6937-1	GN27-1316		IBM SYSTEM/360 OPERATING SYSTEM AND 1130 DISK MONITOR SYSTEM, SYSTEM/360 - 1130 DATA TRANSMISSION FOR FORTRAN PROGRAM NUMBERS 360S-LM-542 AND 1130-LM-011
GC27-6938-1	GN27-1315 GN27-1370	GN27-1330	IBM SYSTEM/360 OPERATING SYSTEM AND 1130 DISK MONITOR SYSTEM USER'S GUIDE FOR JOB CONTROL FROM AN IBM 2250 DISPLAY UNIT ATTACHED TO AN IBM 1130 SYSTEM
GC27-6939-10			PROGRAM NUMBERS 360S-RC-543 AND 1130-CQ-012
GC27-6940-4	GN33-7012	GN33-7021	IBM SYSTEM/360 OPERATING SYSTEM: MFT GUIDE A FIXED NUMBER OF TASKS (MFT) PROGRAM NUMBER 360S-CI-505
GC27-6942-2			SYSTEM/360 DISK OPERATING SYSTEM 1401/1440/1460 EMULATOR PROGRAMS COMPATIBILITY SUPPORT 30/40 PROGRAM NUMBERS 360N-EU-484 AND 360N-EU-485
GC27-6948-1	GN27-1365	**GN27-1372	IBM SYSTEM/360 OPERATING SYSTEM INTRODUCTION TO MAIN STORAGE HIERARCHY SUPPORT FOR IBM 2361 MODELS 1 AND 2
GC27-6949-1	GN27-1374		EMULATING THE IBM 7074 ON THE IBM SYSTEM/370 MODEL 165 USING OS/360
GC27-6950-0	GN27-1336		IBM SYSTEM/360 OPERATING SYSTEM: OPERATOR'S GUIDE FOR DISPLAY CONSOLES
GC27-6951-2			IBM SYSTEM/360 OPERATING SYSTEM PLANNING FOR DISPLAY CONSOLES
GC27-6952-1			EMULATING THE IBM 7094 ON IBM MODELS 85 AND 165 USING OS/360 EMULATING THE IBM 7080 ON THE IBM SYSTEM/370 MODEL 165 USING OS/360 - PROGRAM NUMBER 360C-EU-737
SC27-6955-0			VIDEO/370 USERS GUIDE - PROGRAM PRODUCTS 5734-RC5, 5736-RC3
GC27-6966-1#			IBM OPERATING SYSTEM VIDEO/370
GC27-6966-0#			PROGRAM PRODUCT DESIGN OBJECTIVES
GC27-6970-0			PROGRAM NUMBER 5734-RC5
GC27-6975-0			IBM SYSTEM/360 OPERATING SYSTEM PROBLEM DETERMINATION AIDS AND MESSAGES AND CODES FOR GPS AND GSP - PROGRAM NUMBERS AND MESSAGES AND CODES FOR GPS AND GSP - PROGRAM NUMBERS 360S-IO-523 AND 360S-LM-537
GC27-6977-0			IBM 2260 BTAM AND 2260 GAM TO IBM 3270 BTAM CONVERSION GUIDE - PROGRAM NUMBERS 360S-CQ-513, 360N-CQ-469
GC27-6978-0+			DOS PROGRAMMING SUPPLEMENT FOR THE 3270 INFORMATION DISPLAY SYSTEM - MANUAL
GC28-2000-4			DOS VERSION 4 - BASIC TELECOMMUNICATIONS ACCESS METHOD
GC28-2001-7	GN28-3203		HANUAL - PROGRAM NUMBER 370N-CQ-469
GC28-2003-5			IBM SYSTEM/360 TIME-SHARING SYSTEM ASSEMBLER LANGUAGE
GC28-2004-5#	GN28-3202		IBM SYSTEM/360 TIME-SHARING SYSTEM COMMAND SYSTEM USER'S GUIDE
GC28-2004-4#			IBM SYSTEM/360 TIME SHARING SYSTEM CONCEPTS AND FACILITIES
GC28-2005-4	GN28-3206		IBM SYSTEM/360 TIME-SHARING SYSTEM ASSEMBLER USER MACRO INSTRUCTIONS - SYSTEMS REFERENCE LIBRARY
GC28-2006-1			IBM SYSTEM/360 TIME-SHARING SYSTEM LINKAGE EDITOR
GC28-2007-3			SYSTEMS REFERENCE LIBRARY
GC28-2008-3	GN28-3210		IBM SYSTEM/360 TIME-SHARING SYSTEM TIME SHARING SUPPORT SYSTEM
GC28-2010-6			IBM SYSTEM/360 TIME-SHARING SYSTEM FORTRAN IV
GC28-2017-4			SYSTEMS REFERENCE LIBRARY
GC28-2023-3			IBM SYSTEM/360 TIME SHARING SYSTEM
GC28-2024-4			SYSTEM PROGRAMMER'S GUIDE
GC28-2025-4	GN28-3204		SYSTEMS REFERENCE LIBRARY
GC28-2026-3	GN28-3182		IBM SYSTEM/360 TIME-SHARING SYSTEM SYSTEM GENERATION AND MAINTENANCE
GC28-2028-0	GN28-3198	GN28-3211	IBM SYSTEM/360 TIME-SHARING SYSTEM TERMINAL USER'S GUIDE
GC28-2032-5#	GN28-3201		IBM SYSTEM/360 TIME SHARING SYSTEM MASTER INDEX
GC28-2032-4#			IBM SYSTEM/360 TIME-SHARING SYSTEM MANAGER'S AND ADMINISTRATOR'S GUIDE
GC28-2033-8	GN28-3207		IBM SYSTEM/360 TIME-SHARING SYSTEM FORTRAN PROGRAMMER'S GUIDE
GC28-2034-1	GN28-3184		GUIDE
GC28-2037-7	GN28-3209		IBM SYSTEM/360 TIME SHARING SYSTEM
GC28-2038-2	GN28-3205		FORTRAN IV LIBRARY SUBPROGRAMS
GC28-2043-12			IBM SYSTEM/360 TIME SHARING SYSTEM TEST AND MAINTENANCE USER'S GUIDE - PROGRAM NUMBER 360G-CL-627
GC28-2044-0			IBM SYSTEM/360 TIME-SHARING SYSTEM ASSEMBLER PROGRAMMER'S GUIDE
GC28-2045-1	GN28-3171	GN28-3185	IBM SYSTEM/360 TIME-SHARING SYSTEM OPERATOR'S GUIDE
GC28-2046-1			IBM SYSTEMS/360 TIME SHARING SYSTEM
GC28-2048-4			MULTITERMINAL TASK PROGRAMMING AND OPERATION PROGRAM NUMBER 360S-CI-555
GC28-2049-1#	GN28-3208		IBM SYSTEM/360 TIME SHARING SYSTEM SYSTEM MESSAGE
GC28-2049-0#			IBM SYSTEM/360 TIME-SHARING SYSTEM INDEPENDENT UTILITIES
GC28-2056-1			IBM SYSTEM/360 TIME-SHARING SYSTEM ADDENDUM PROGRAM NUMBER 360S-CI-555
GC28-2057-1			IBM SYSTEM/360 TIME-SHARING SYSTEM PLANNING FOR REMOTE JOB ENTRY
GC28-6300-3	GN28-0250 GN28-0265 GN28-0464	GN28-0249 GN28-0425	IBM SYSTEM/360 TIME-SHARING SYSTEM PL/I REFERENCE MANUAL PROGRAM NUMBERS 360G-CL-625 360G-CL-626
GC28-6394-2#	GN28-0436	GN28-0489	IBM SYSTEM/360 TIME-SHARING SYSTEM PL/I LIBRARY COMPUTATIONAL SUBROUTINES
GC28-6394-1#			IBM SYSTEM/360 TIME SHARING SYSTEM INTRODUCING TSS/360
GC28-6395-1	GN28-0271		A PRIMER FOR FORTRAN USERS
GC28-6396-3+			PROGRAM NUMBER 360S-CI-555
GC28-6397-2	GN28-0592		IBM SYSTEM/360 TIME SHARING SYSTEM
GC28-6398-2	GN28-0458	**GN28-0494	IBM SYSTEM/360 TIME SHARING SYSTEM PL/I PROGRAMMER'S GUIDE
GC28-6399-1	GN28-0408 GN28-0437 GN28-0262 GN28-0405	GN28-0422 GN28-0473 GN28-0270 GN28-0467	IBM SYSTEM/360 TIME SHARING SYSTEM DATA MANAGEMENT FACILITIES
GC28-6401-2#	**GN28-0493		IBM SYSTEM/360 TIME SHARING SYSTEM REMOTE JOB ENTRY
GC28-6401-0#			IBM SYSTEM/360 OPERATING SYSTEM COBOL (F) PROGRAMMER'S GUIDE PROGRAM NUMBER 360S-CB-524 360S-LM-525
GC28-6402-2			IBM SYSTEM/360 DISK OPERATING SYSTEM - USA STANDARD COBOL
GC28-6403-0	GN28-0441 **GN28-0490	GN28-0457	IBM SYSTEM/360 COBOL DIFFERENCES USA STANDARD COBOL CONVERSION
			IBM SYSTEM/360 OPERATING SYSTEM USA STANDARD COBOL
			IBM SYSTEM/360 DISK OPERATING SYSTEM FORTRAN IV PROGRAMMER'S GUIDE PROGRAM NUMBERS 360N-FO-479 360N-LM-480
			IBM SYSTEM/360 DISK OPERATING SYSTEM: USA STANDARD COBOL PROGRAMMER'S GUIDE
			PROGRAM NUMBER 360N-CB-482
			AMERICAN NATIONAL STANDARD COBOL PROGRAMMER'S GUIDE
			IBM SYSTEM/360 CONVERSION AIDS: COBOL-TO-USA STANDARD COBOL LANGUAGE CONVERSION PROGRAM
			PROGRAM NUMBERS 360N-CV-489, 360C-CV-713
			IBM SYSTEM/360 DISK OPERATING SYSTEM
			AMERICAN NATIONAL STANDARD SUBSET COBOL COMPILER AND LIBRARY - PROGRAM NUMBER 5736-CB1
			IBM SYSTEM/360 DISK OPERATING SYSTEM:
			AMERICAN NATIONAL STANDARD SUBSET COBOL COMPILER GENERAL INFORMATION
			IBM SYSTEM/360 DISK OPERATING SYSTEM:
			AMERICAN NATIONAL STANDARD SUBSET COBOL PROGRAM NUMBER 5736-CB1

GC28-6406-1*			IBM SYSTEM/360 OPERATING SYSTEM FULL
GC28-6406-0#			AMERICAN NATIONAL STANDARD (ANS) COBOL COMPILER
			VERSION 3 DESIGN OBJECTIVES SHEET, PROGRAM NUMBER 5734-CB1
GC28-6407-2			IBM SYSTEM/360 OPERATING SYSTEM AMERICAN NATIONAL STANDARD
			FULL COBOL COMPILER AND LIBRARY VERSION 3
			GENERAL INFORMATION
			PROGRAM NUMBER 5734-CB1
GC28-6408-1#*			OS FULL AMERICAN NATIONAL STANDARD COBOL COMPILER VERSION 4
GC28-6408-0#			PROGRAM PRODUCT DESIGN OBJECTIVES - PROGRAM NUMBER 5734-CB2
GC28-6420-2#			IBM SYSTEM/360 DISK OPERATING SYSTEM
GC28-6420-0#			AMERICAN NATIONAL STANDARD FULL COBOL COMPILER VERSION 3
			PROGRAM NUMBER 5736-CB2
GC28-6421-2#*			IBM SYSTEM/360 DISK OPERATING SYSTEM
GC28-6421-1#			AMERICAN NATIONAL STANDARD FULL COBOL COMPILER VERSION 3
GC28-6421-0#			AND ASSOCIATED COBOL OBJECT-TIME SUBROUTINE LIBRARY
			GENERAL INFORMATION
GC28-6428-2#			IBM SYSTEM/360 DISK OPERATING SYSTEM
GC28-6428-0#			AMERICAN NATIONAL STANDARD FULL COBOL OBJECT-TIME
			SUBROUTINE LIBRARY - PROGRAM NUMBER 5736-LM2
GC28-6429-0			IBM SYSTEM/360 OPERATING SYSTEM: LINKAGE EDITOR (G)
			INSTALLATION REFERENCE MATERIAL
			PROGRAM NUMBER 360S-ED-510
GC28-6430-0			IBM SYSTEM/360 OPERATING SYSTEM: FORTRAN IV (E) COMPILER,
			INSTALLATION REFERENCE MATERIAL
			PROGRAM NUMBER 360S-FO-092
GC28-6431-0			OS FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND
			LIBRARY, VERSION 4, PLANNING GUIDE - PROGRAM
			PRODUCT 5734-CB2
SC28-6432-0	SN28-0446		IBM SYSTEM/360 OPERATING SYSTEM
			FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY,
			VERSION 3, INSTALLATION REFERENCE MANUAL,
			PROGRAM NUMBER 5734-CB1
SC28-6433-0			IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION COBOL
			PROMPTER TERMINAL USER'S GUIDE AND REFERENCE INFORMATION
			PROGRAM NUMBER 5734-CP1
SC28-6434-0	SN28-0445		IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) COBOL
			PROMPTER INSTALLATION REFERENCE MATERIAL
			5734-CP1
GC28-6435-0			IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) COBOL
			PROMPTER PROGRAM PRODUCT SPECIFICATIONS
			PROGRAM NUMBER 5734-CP1
GC28-6436-1			IBM SYSTEM/360 OS FULL AMERICAN NATIONAL STANDARD COBOL
			COMPILER AND LIBRARY, VERSION 3, PROGRAM PRODUCT
			SPECIFICATIONS (PPS) - PROGRAM NUMBER 5734-CB1
SC28-6437-0	SN28-0438	SN28-0479	IBM SYSTEM/360 OPERATING SYSTEM FULL AMERICAN NATIONAL
			STANDARD COBOL COMPILER AND LIBRARY, VERSION 3, PROGRAMMER'S
			GUIDE - PROGRAM NUMBER 5734-CB1
SC28-6438-0	SN28-0470		IBM SYSTEM/360 DISK OPERATING SYSTEM SUBSET AMERICAN
			NATIONAL STANDARD COBOL COMPILER AND LIBRARY
			INSTALLATION REFERENCE MATERIAL - PROGRAM NUMBER 5736-CB1
SC28-6439-0	SN28-0472	**SN28-0483	IBM SYSTEM/360 DISK OPERATING SYSTEM SUBSET AMERICAN
			NATIONAL STANDARD COBOL COMPILER AND LIBRARY
			PROGRAMMER'S GUIDE - PROGRAM NUMBER 5736-CB1
SC28-6440-0			IBM SYSTEM/360 OPERATING SYSTEM FULL AMERICAN NATIONAL
			STANDARD COBOL, VERSION 3, MESSAGES
			PROGRAM NUMBER 5734-CB1
SC28-6441-0	SN28-0460	**SN28-0480	IBM SYSTEM/360 DISK OPERATING SYSTEM: FULL AMERICAN
			NATIONAL STANDARD COBOL COMPILER AND LIBRARY, VERSION 3
			SYSTEM REFERENCE LIBRARY PROGRAMMER'S GUIDE
			PROGRAM NUMBERS 5736-CB2, 5736-LM2
SC28-6442-0	SN28-0450	**SN28-0487	IBM SYSTEM/360 DISK OPERATING SYSTEM: FULL AMERICAN NATIONAL
			STANDARD COBOL COMPILER AND LIBRARY, VERSION 3
			SYSTEM REFERENCE LIBRARY INSTALLATION REFERENCE MATERIAL
			PROGRAM NUMBERS 5736-CB2, 5736-LM2
GC28-6443-1+			IBM SYSTEM/360 DISK OPERATING SYSTEM FULL AMERICAN NATIONAL
			STANDARD COBOL COMPILER VERSION 3
			SYSTEM REFERENCE LIBRARY PROGRAM PRODUCT SPECIFICATIONS
			PROGRAM NUMBER 5736-CB2
GC28-6444-1+			IBM SYSTEM/360 DISK OPERATING SYSTEM: FULL AMERICAN NATIONAL
			STANDARD COBOL OBJECT TIME SUBROUTINE LIBRARY
			PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-LM2
SC28-6445-0	SN28-0461	**SN28-0488	IBM SYSTEM/360 DISK OPERATING SYSTEM: FULL AMERICAN NATIONAL
			STANDARD COBOL VERSION 3 MESSAGES - SYSTEM REFERENCE LIBRARY
			MANUAL - PROGRAM NUMBERS 5736-CB2, 5736-LM2
SC28-6446-0	**SN28-0484		IBM SYSTEM/360 DISK OPERATING SYSTEM SUBSET AMERICAN
			NATIONAL STANDARD COBOL MESSAGES - PROGRAM NUMBER 5736-CB1
GC28-6450-2			IBM SYSTEM/360 DISK OPERATING SYSTEM SUBSET AMERICAN
			NATIONAL STANDARD COBOL COMPILER AND LIBRARY (PROGRAM
			PRODUCT SPECIFICATIONS) PROGRAM NUMBER 5736-CB1
GC28-6454-0			IBM OS COBOL INTERACTIVE DEBUG AND (TSO) COBOL PROMPTER
			GENERAL INFORMATION MANUAL - PROGRAM PRODUCTS 5734-CB4,
			5734-CP1
GC28-6461-0			IBM DISK OPERATING SYSTEM SUBSET AMERICAN NATIONAL
			STANDARD COBOL COMPILER AND LIBRARY PROGRAM PRODUCT
			DESIGN OBJECTIVE - PROGRAM NUMBER 5736-CB1
GC28-6463-0			IBM OS COBOL INTERACTIVE DEBUG PROGRAM
			PRODUCT DESIGN OBJECTIVE - PROGRAM NUMBER 5734-CB4
GC28-6503-8#			IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT (CARD) BASIC
GC28-6503-7#	GN33-8597	GN33-8659	ASSEMBLER AND BASIC UTILITY PROGRAMS SPECIFICATIONS AND
			OPERATING PROCEDURES - SYSTEMS REFERENCE LIBRARY
			PROGRAM NUMBERS: 360P-AS-021, 360P-UT-017, 360P-UT-018,
			360P-UT-019, 360P-UT-020
GC28-6514-8			IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER LANGUAGE
			PROGRAM NUMBERS 360S-AS-037, 360S-AS-036
GC28-6515-8#	GN28-0595		IBM SYSTEM/360 FORTRAN IV LANGUAGE
GC28-6515-7#			SYSTEMS REFERENCE LIBRARY MANUAL, PROGRAM NUMBER 360N-LM-400
GC28-6516-8	GN28-0266	GN28-0427	IBM SYSTEM/360 OPERATING SYSTEM COBOL LANGUAGE
	GN28-0465		PROGRAM NUMBER (COBOL E) 360S-CO-503
			(COBOL F) 360S-CB-524
GC28-6529-2			IBM SYSTEM/360 CONVERSION AIDS: THE 1620 SIMULATOR FOR
			IBM SYSTEM/360, PROGRAM NUMBER 360C-SI-752
			SYSTEMS REFERENCE LIBRARY
GC28-6530-1	GN33-7000		IBM SYSTEM/360 CONVERSION AIDS: THE 7070/7074 SIMULATOR
			FOR SYSTEM/360 - SYSTEMS REFERENCE LIBRARY
			PROGRAM NUMBER 360C-SI-753
GC28-6531-1			IBM SYSTEM/360 SIMULATOR FOR THE IBM 7080 PRELIMINARY
			SPECIFICATIONS MANUAL
GC28-6532-2			IBM SYSTEM/360 CONVERSION AIDS: THE 7090/7094 SIMULATOR FOR
			IBM SYSTEM/360 PROGRAM NUMBER 360C-SI-750
			SYSTEMS REFERENCE LIBRARY
GC28-6534-3	GN28-2512		IBM SYSTEM/360 OPERATING SYSTEM INTRODUCTION
GC28-6538-9			IBM SYSTEM/360 OPERATING SYSTEM LINKAGE EDITOR AND LOADER
			PROGRAM NUMBERS 360S-ED-510, 360S-ED-521, 360S-LD-547
GC28-6543-7			IBM SYSTEM/360 OPERATING SYSTEM, SORT/MERGE
			PROGRAM NUMBER 360S-SM-023

GC28-6550-10			IBM SYSTEM/360 OPERATING SYSTEM DATA MANAGEMENT FOR SYSTEM PROGRAMMERS OPERATING SYSTEM/360 - SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBER 360S-CI-555
GC28-6551-14	GN28-2517		IBM SYSTEM/360 OPERATING SYSTEM: STORAGE ESTIMATES
GC28-6554-11#	GN26-0637		OS SYSTEM GENERATION GENERATION - SYSTEMS REFERENCE LIBRARY
GC28-6554-10#	GN26-0637		
GC28-6559-2			IBM SYSTEM/360 CONVERSION AIDS: COBOL LANGUAGE CONVERSION PROGRAM FOR THE IBM 1401, PROGRAM NUMBER 1401-CB-701
GC28-6560-2#			IBM SYSTEM/360 TRANSITION AIDS: FORTRAN II LANGUAGE CONVERSION PROGRAM (1401-FO-702) FOR THE IBM 1401
GC28-6560-1#			IBM SYSTEM/360 CONVERSION AIDS: THE 1401/1460 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 40, PROGRAM NUMBER 360C-EU-074
GC28-6561-4	GN27-1324		SYSTEMS REFERENCE LIBRARY
GC28-6563-3	GN27-1325	GN27-1282	IBM SYSTEM/360 CONVERSION AIDS: THE 1410/7010 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 40, PROGRAM NUMBER 360C-EU-728
GC28-6565-4	GN27-1322	GN27-1359	IBM SYSTEM/360 CONVERSION AIDS: THE 709/7090/7094/7094 II EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 65, PROGRAM NUMBER 360C-EU-729
GC28-6568-2	GN27-1326	GN27-1280	SYSTEMS REFERENCE LIBRARY
GC28-6570-0			IBM SYSTEM/360 CONVERSION AIDS: THE 1410/7010 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 50, PROGRAM NUMBER 360C-EU-726
GC28-6583-2	GN28-0230		IBM SYSTEM/360 TRANSITION AIDS COBOL LANGUAGE DIFFERENCES
GC28-6585-1	**GN27-1321	**GN27-1305	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT FORTRAN IV (TAPE) PROGRAMMER'S GUIDE PROGRAM NUMBER 360P-FO-031
**GN27-1295		**GN27-1283	IBM SYSTEM/360 CONVERSION AIDS: THE 7040/7044 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 65, PROGRAM NUMBER 360C-EU-733.
**GN27-1261		**GN27-1360	IBM SYSTEM/360 OPERATING SYSTEM: UTILITIES
GC28-6586-13	GN35-0004		SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBERS 360S-UT-506, 507 5734-UT2
GC28-6590-2#			IBM SYSTEM/360 OPERATING SYSTEM, PL/I SUBROUTINE LIBRARY, COMPUTATIONAL SUBROUTINES, PROGRAM NUMBER 360S-LM-512
GC28-6594-7	GN33-6020		IBM SYSTEM/360 OPERATING SYSTEM PL/I (P) PROGRAMMER'S GUIDE
GC28-6595-2	GN33-8004		IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER (E) PROGRAMMER'S GUIDE - PROGRAM NUMBER 360S-AS-036
GC28-6596-4	GN28-0588		IBM SYSTEM/360 FORTRAN IV LIBRARY SUBPROGRAMS SYSTEMS REFERENCE LIBRARY MANUAL, PROGRAM NUMBERS 360P-LM-619, 360N-LM-480
GC28-6603-3			IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (E) PROGRAMMER'S GUIDE PROGRAM NUMBER 360S-FO-092
GC28-6615-3			IBM SYSTEM/360 OPERATING SYSTEM, ALGOL LANGUAGE
GC28-6628-0			IBM SYSTEM/360 OPERATION SYSTEM: SYSTEM CONTROL BLOCKS SYSTEMS REFERENCE LIBRARY MANUAL, PROGRAM NUMBER 360S-CI-566
GC28-6629-2			IBM SYSTEM/360 BASIC FORTRAN IV LANGUAGE
GC28-6631-12			IBM SYSTEM/360 OPERATING SYSTEM: MESSAGES AND CODES SYSTEMS REFERENCE LIBRARY
GC28-6644-6			IBM SYSTEM/360 OPERATING SYSTEM MASTER INDEX
GC28-6646-6			SYSTEM/360 OPERATING SYSTEM SUPERVISOR SERVICES SYSTEMS REFERENCE LIBRARY MANUAL
GC28-6647-5	GN26-0622	GN26-0630	IBM SYSTEM/360 OPERATING SYSTEM SUPERVISOR AND DATA MANAGEMENT MACRO INSTRUCTIONS
GC28-6648-1			IBM SYSTEM/360 OPERATING SYSTEM TESTRAN
GC28-6650-6			IBM SYSTEM/360 OPERATING SYSTEM ONLINE TEST EXECUTIVE PROGRAM - PROGRAM NUMBER 360S-DN-533 BACK LEVEL
GC28-6662-1			IBM SYSTEM/360 OPERATING SYSTEM, SORT/MERGE TIMING ESTIMATES, PROGRAM NUMBER 360S-SM-023
GC28-6670-5#	GN28-2520		IBM SYSTEM/360 OPERATING SYSTEM: PROGRAMMER'S GUIDE TO DEBUGGING
GC28-6670-4#			IBM SYSTEM/360 DISK OPERATING SYSTEM
**GC28-6676-4			TAPE AND DISK SORT/MERGE PROGRAM PROGRAM NUMBER 360N-SM-483
GC28-6679-1			IBM SYSTEM/360 DISK OPERATING SYSTEM TAPE AND DISK SORT/MERGE TIMING ESTIMATES PROGRAM NUMBER 360N-SM-483
GC28-6680-4			IBM SYSTEM/360 OPERATING SYSTEM: TAPE LABELS
GC28-6687-1			USER'S GUIDE FOR THE IBM 2947-4 CHECK COLLECTION CONTROLLER SEQUENTIAL ACCESS METHOD PROGRAM SUPPORTING RPQ 888264 PROGRAM NUMBERS 5799-WAF, 5799-WAG
SC28-6689-1			USER'S GUIDE FOR THE IBM 2947 MODEL 4 CHECK COLLECTION CONTROLLER ASSEMBLY FACILITIES, PROGRAMMING - PRPQ P88003 PROGRAM NUMBER 5799-AAH
GC28-6691-3			IBM SYSTEM/360 OPERATING SYSTEM OPERATOR'S REFERENCE
GC28-6692-2#			IBM SYSTEM/360 OPERATING SYSTEM: OPERATOR'S PROCEDURES
GC28-6692-1#			
GC28-6692-0#			
SC28-6695-1	SN33-8108		IBM SYSTEM/360 DISK OPERATING SYSTEM: TAPE AND DISK SORT/MERGE PROGRAM, SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBER 5736-SH1
GC28-6698-4	GN28-2519		IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION PLANNING FOR TSO
GC28-6704-2			IBM SYSTEM/360 OPERATING SYSTEM: JOB CONTROL LANGUAGE REFERENCE
GC28-6708-4			IBM SYSTEM/360 OPERATING SYSTEM: ADVANCED CHECKPOINT/RESTART PLANNING GUIDE
GC28-6709-0	GN28-2528		IBM 2969 PROGRAMMABLE TERMINAL INTERCHANGE MODEL 1 CONTROL PROGRAM OPERATOR'S GUIDE SUPPORTING RPQ 888117
GC28-6711-0	**GN28-2529		IBM 2969 PROGRAMMABLE TERMINAL INTERCHANGE MODEL 1 CONTROL PROGRAM USER'S GUIDE SUPPORTING RPQ 888117
GC28-6712-5			IBM SYSTEM/360 OPERATING SYSTEM SYSTEM MANAGEMENT FACILITIES REFERENCE MANUAL - PROGRAM NUMBERS 360S-CI-505, 360S-CI-535
GC28-6716-0	GN28-2449		IBM SYSTEM/360 OPERATING SYSTEMS FEATURE GUIDE
GC28-6719-2			IBM SYSTEM/360 OPERATING SYSTEM: SERVICE AIDS SYSTEMS REFERENCE LIBRARY
GC28-6720-4			IBM SYSTEM/360 OPERATING SYSTEM MVT GUIDE
GC28-6730-2#	**GN28-2530	**GN28-2532	IBM SYSTEM/360 OPERATING SYSTEM: RELEASE 20 GUIDE SYSTEMS REFERENCE LIBRARY
GC28-6730-1#			
GC28-6730-0#			
GC28-6732-3#			IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION: COMMAND LANGUAGE
GC28-6732-2#	GN28-2521	GN28-2531	IBM SYSTEM/360 OPERATING SYSTEM: RELEASE 19 GUIDE
GC28-6733-1	GN28-2432	GN28-2434	IBM SYSTEM/360 OPERATING SYSTEM: RELIABILITY DATA EXTRACTOR USER'S GUIDE
	GN28-2453	GN28-2466	IBM SYSTEM/360 OPERATING SYSTEM: TAPE AND DISK SORT/MERGE PROGRAM, PROGRAM NUMBER 5736-SH1
GC28-6747-2			PROGRAM PRODUCT SPECIFICATIONS
GC28-6753-1			IBM SYSTEM/360 DISK OPERATING SYSTEM: TAPE AND DISK SORT/MERGE PROGRAM, PROGRAM NUMBER 5736-SH1
SC28-6755-0	SN28-2431	SN33-8105	IBM SYSTEM/360 DISK OPERATING SYSTEM: TAPE AND DISK SORT/MERGE PROGRAM, SYSTEM INFORMATION - PROGRAM NUMBER 5736-SH1
GC28-6758-0			IBM SYSTEM/360 OPERATING SYSTEM DATA SET UTILITIES SUPPORT FOR ASCII - PROGRAM NUMBER 5734-UT2
GC28-6759-1			IBM PROGRAM PRODUCT SPECIFICATIONS, IBM SYSTEM/360 OPERATING SYSTEM: DATA SET UTILITIES SUPPORT FOR ASCII PROGRAM PRODUCT NUMBER 5734-UT2

SC28-6760-0			IBM SYSTEM/360 OPERATING SYSTEM: DATA SET UTILITIES SUPPORT FOR ASCII - USER'S GUIDE, PROGRAM PRODUCT 5734-UT2
GC28-6762-0	GN28-2487		IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION TERMINALS
**GC28-6763-2#			IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION TERMINAL USER'S GUIDE
GC28-6763-1#			IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION GUIDE TO WRITING A TERMINAL MONITOR PROGRAM OR A COMMAND PROCESSOR
GC28-6764-1	GN28-2523		IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) DATA UTILITIES: COPY, FORMAT, LIST, MERGE USER'S GUIDE AND REFERENCE MATERIAL - PROGRAM NUMBER 5734-UT1
SC28-6765-2			IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) DATA UTILITIES: COPY, FORMAT, LIST, MERGE SYSTEM INFORMATION PROGRAM PRODUCT - PROGRAM NUMBER 5734-UT1
SC28-6767-1	SN28-2505		IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION DATA UTILITIES: COPY, FORMAT, LIST, MERGE - PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-UT1
GC28-6768-1			A PL/I PRIMER
SC28-6800-1#			
SC28-6800-0#			
GC28-6810-2			IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEMS CONCEPTS AND FACILITIES - SYSTEMS REFERENCE MANUAL
GC28-6811-1	GN33-8543	GN33-8663	IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM ASSEMBLER LANGUAGE, PROGRAM NUMBER 360F-AS-616
GC28-6812-2	GN33-8546	GN33-8664	IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM GUIDE TO SYSTEM USE
GC28-6813-2	GN33-8602	GN33-8665	IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM GUIDE TO SYSTEM USE FOR FORTRAN PROGRAMMERS
GC28-6814-1	GN33-8547	GN33-8666	IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM SYSTEMS PROGRAMMER'S GUIDE
GC28-6815-3	GN33-8598	GN33-8667	SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM OPERATOR'S GUIDE
GC28-6816-0			IBM SYSTEM/360 CONVERSION AIDS: 1620 SIMULATOR FOR IBM SYSTEM/360 MODEL 44 PROGRAM NUMBER 360C-SI-755
GC28-6817-2	GN28-0591		IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (G AND H) PROGRAMMER'S GUIDE
GC28-6818-0	GN28-0589		PROGRAM NUMBERS 360S-FO-500 360S-FO-520
GC28-6819-0			IBM SYSTEM/360 FORTRAN IV LIBRARY: MATHEMATICAL AND SERVICE SUBPROGRAMS - SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBER 360S-LN-501
GC28-6820-2			IBM SYSTEM/360 FORTRAN IV LANGUAGE HANDBOOK FOR CONVERSION FROM IBM 7090/7094 FORTRAN IV PROGRAM NUMBER 7090-PR-130
GC28-6821-2			IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - PL/I AND BASIC PROGRAM NUMBERS 5734-RC1, 5734-RC3 - DESIGN OBJECTIVES
GC28-6824-2#			IBM SYSTEM/360 DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY PL/I AND BASIC (PROGRAM PRODUCT DESIGN OBJECTIVES) PROGRAM NUMBERS 5736-RC1, 5736-RC2
GC28-6824-1#			IBM SYSTEM/360 OPERATING SYSTEM FORTRAN PROGRAM PRODUCTS FOR OS AND OS WITH TSO GENERAL INFORMATION PROGRAM NUMBERS: 5734-FO1, 5734-FO2, 5734-CP3, 5734-LM1
GC28-6825-2	GN28-0451		IBM SYSTEM/360 OPERATING SYSTEM IBM SYSTEM/360 DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY: PL/I GENERAL INFORMATION PROGRAM NUMBERS 5736-RC1, 5734-RC1
GC28-6829-2			IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY: PL/I (5734-RC1) AND BASIC (5734-RC3) SPECIFICATION SHEET
GC28-6830-2			IBM SYSTEM/360 DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY: PL/I AND BASIC PROGRAM NUMBERS: 5736-RC1 5736-RC2
GC28-6831-0			IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) INTERACTIVE TERMINAL FACILITY: PL/I AND BASIC PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBERS 5734-RC2, 5734-RC4
GC28-6832-0			IBM SYSTEM/360 OPERATING SYSTEM CODE AND GO FORTRAN PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-FO1
SC28-6833-1			IBM SYSTEM/360 OS/DOS ITF: PL/I INTRODUCTION PROGRAM NUMBERS 5734-RC1, 5736-RC1
SC28-6834-1	SN28-0452		IBM SYSTEM/360 OS/DOS ITF: PL/I TERMINAL USER'S GUIDE PROGRAM NUMBERS 5734-RC1, 5736-RC1
SC28-6835-1#	SN28-0453		IBM SYSTEM/360 OS/DOS ITF: BASIC TERMINAL USER'S GUIDE PROGRAM NUMBERS 5736-RC2, 5734-RC3
SC28-6835-0#			IBM SYSTEM/360 OS/DOS ITF INSTALLATION REFERENCE MATERIAL PROGRAM NUMBERS 5734-RC1, 3; 5736-RC1, 2
GC28-6837-0			BASIC LANGUAGE REFERENCE MANUAL
SC28-6838-0			IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) INTERACTIVE TERMINAL FACILITY: PL/I INTRODUCTION PROGRAM NUMBER 5734-RC2
SC28-6839-0	SN28-0448		IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) INTERACTIVE TERMINAL FACILITY: PL/I TERMINAL USER'S GUIDE PROGRAM NUMBER 5734-RC2
SC28-6840-0	SN28-0449		IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) INTERACTIVE TERMINAL FACILITY: BASIC TERMINAL USER'S GUIDE PROGRAM NUMBER 5734-RC4
SC28-6841-0	SN28-0447		IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) INTERACTIVE TERMINAL FACILITY INSTALLATION REFERENCE MANUAL PROGRAM NUMBERS 5734-RC2, 5734-RC4
SC28-6842-1			IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) CODE AND GO FORTRAN PROCESSOR-TERMINAL USER'S GUIDE PROGRAM NUMBERS 5734-FO1, 5734-LM1
GC28-6844-1#			IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY MOD 1 DESIGN OBJECTIVES - PROGRAM NUMBER 5734-LM1
GC28-6844-0#			IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY MOD 1 DESIGN OBJECTIVES - PROGRAM NUMBER 5734-FO3
GC28-6847-0			IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY (MOD II) PROGRAM NUMBER 5734-LM3
GC28-6848-1			IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H EXTENDED) COMPILER AND FORTRAN IV LIBRARY (MOD II) GENERAL INFORMATION PROGRAM NUMBERS 5734-FO3, 5734-LM3
SC28-6851-0			IBM SYSTEM/360 DISK OPERATING SYSTEM - FORTRAN IV LIBRARY ASCII SUPPORT: PROGRAMMER'S GUIDE SUPPLEMENT PROGRAM NUMBER 5736-LM1
SC28-6852-0			IBM SYSTEM/360 OPERATING SYSTEM: FORTRAN IV (H EXTENDED) COMPILER, PROGRAMMER'S GUIDE - PROGRAM NUMBER 5734-FO3 5734-LH3
SC28-6853-0			IBM SYSTEM/360 OPERATING SYSTEM CODE AND GO FORTRAN IV (GI) PROGRAMMER'S GUIDE, PROGRAM NUMBERS 5734-FO1, 5734-FO2, 5734-LM1
GC28-6854-0			IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (GI) PROCESSOR PROGRAM PRODUCT SPECIFICATIONS, PROGRAM NUMBER 5734-FO2
SC28-6855-1			IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION) TERMINAL USER'S SUPPLEMENT FOR FORTRAN IV (GI) PROCESSOR AND TSO FORTRAN - PROGRAM PRODUCT MANUAL PROGRAM NUMBERS 5734-FO2, 5734-CP3, 5734-LM1

SC28-6856-0			IBM SYSTEM/360 OS FORTRAN IV (GI) PROCESSOR AND TSO FORTRAN PROMPTER INSTALLATION REFERENCE MATERIAL PROGRAM LOGIC MANUAL, PROGRAM NUMBER 5734-FO2
GC28-6857-1			IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION FORTRAN PROMPTER - PROGRAM PRODUCT SPECIFICATION
SC28-6858-0			IBM SYSTEM/360 FORTRAN IV LIBRARY (MODEL 1) INSTALLATION REFERENCE MATERIAL, PROGRAM NUMBER 5734-LM1
SC28-6859-0			IBM SYSTEM/360 OPERATING SYSTEM CODE AND GO FORTRAN PROCESSOR INSTALLATION REFERENCE MATERIAL PROGRAM NUMBER 5734-FO1
SC28-6861-0			IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H EXTENDED) COMPILER AND LIBRARY (MOD II) IRM MODULE II INSTALLATION REFERENCE MATERIAL - PROGRAM NUMBERS 5734-FO3, 5734-LM3
GC28-6862-0			IBM SYSTEM/360 OPERATING SYSTEM: FORTRAN IV (H EXTENDED) COMPILER PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-FO3
GC28-6863-0			IBM SYSTEM/360: FORTRAN IV LIBRARY (MODEL II) PROGRAM PRODUCT SPECIFICATIONS, PROGRAM NUMBER 5734-LM3
SC28-6864-0			IBM SYSTEM/360 OS: FORTRAN IV MATH AND SVC SUBPROGRAM SUPPLEMENT FOR MODE I and MODEL II LIBRARIES PROGRAM NUMBERS 5734-LM1, 5734-LM3
GC28-6865-0			IBM SYSTEM/360 OS: FORTRAN IV (H EXTENDED) COMPILER AND LIBRARY (MODEL II), MESSAGES - SYSTEM REFERENCE LIBRARY MANUAL PROGRAM NUMBERS 5734-FO3, 5734-LM3
SC28-6868-0			IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H EXTENDED) PLUS COMPILER & LIBRARY USER SUPPLEMENT - PROGRAM NUMBER 5799-AAW
GC28-6872-0			SYSTEM/360 DISK OPERATING SYSTEM FORTRAN IV LIBRARY, OPTION 1 - PROGRAM PRODUCT DESIGN OBJECTIVE PROGRAM NUMBER 5746-LM3
GC28-6881-0			FORTRAN INTERACTIVE DEBUG FOR OS (TSO) - PROGRAM PRODUCT DESIGN OBJECTIVE - PROGRAM NUMBER 5734-FO5
**GC28-6882-0*			DISK OPERATING SYSTEM FORTRAN IV LIBRARY OPTION 1 - PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5746-LM3
**SC28-6883-0*			DOS FORTRAN IV LIBRARY OPTION/PROGRAMMERS'S GUIDE SUPPLEMENT - PROGRAM PRODUCT 5746-LM3
GC28-8193-0			IBM SYSTEM/360 DISK OPERATING SYSTEM FORTRAN IV LIBRARY ASCII SUPPORT PROGRAM NUMBER 5736-LM1
GC28-8194-0			IBM SYSTEM/360 DISK OPERATING SYSTEM FORTRAN IV LIBRARY ASCII SUPPORT PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-LM1
GC28-8201-3	GN33-6019	GN33-6021	IBM SYSTEM/360 OPERATING SYSTEM PL/I (F) LANGUAGE REFERENCE MANUAL
GC28-8202-2	GN33-9125		TNL TO IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS PL/I SUBSET REFERENCE MANUAL
GC30-1004-0			IBM SYSTEM/360 OPERATING SYSTEM BASIC TELECOMMUNICATIONS ACCESS METHOD PLANNING FOR IBM 2700 DATA COMMUNICATION SYSTEM SUPPORT
GC30-1005-0			IBM SYSTEM/360 OPERATING SYSTEM AND DISK OPERATING SYSTEM: PLANNING FOR IMPROVED BTAM SUPPORT OF REMOTE BSC STATIONS PROGRAM NUMBER 360S-CQ-513
GC30-2003-4			IBM SYSTEMS REFERENCE LIBRARY MANUAL - IBM SYSTEM/360 OPERATING SYSTEM QUEUED TELECOMMUNICATIONS ACCESS METHOD MESSAGE PROCESSING PROGRAM SERVICES PROGRAM NUMBER 360S-CQ-519
GC30-2004-5	GN30-2551 GN30-2568 GN30-2570	GN30-2563 GN30-2571 GN30-2569	IBM SYSTEM/360 OPERATING SYSTEM BASIC TELECOMMUNICATIONS ACCESS METHOD PROGRAM NUMBER 360S-CQ-513
GC30-2005-3			IBM SYSTEMS REFERENCE LIBRARY IBM SYSTEM/360 OPERATING SYSTEM QUEUED TELECOMMUNICATIONS ACCESS METHOD MESSAGE CONTROL PROGRAM PROGRAM NUMBER 360S-CQ-519
GC30-2006-5			IBM SYSTEM/360 OPERATING SYSTEM REMOTE JOB ENTRY PROGRAM NUMBER 360S-RC-536
GC30-2009-0			IBM SYSTEM/360 OPERATING SYSTEM BASIC TELECOMMUNICATIONS ACCESS METHOD PLANNING FOR USE OF THE IBM 2741 UNDER BTAM PROGRAM NUMBER 360S-CQ-513
GC30-2012-1			IBM SYSTEM/360 CONVERSATIONAL REMOTE JOB ENTRY AND FACILITIES - SYSTEMS REFERENCE LIBRARY PROGRAM NUMBER 360S-RC-551
GC30-2014-1			IBM SYSTEM/360 OPERATING SYSTEM: CONVERSATIONAL REMOTE JOB ENTRY (CRJE) TERMINAL USER'S GUIDE SYSTEMS REFERENCE LIBRARY - PROGRAM NUMBER 360S-RC-551
GC30-2015-0			IBM SYSTEM/360 OPERATING SYSTEM REMOTE JOB ENTRY - PLANNING FOR IBM 2770 RJE SUPPORT
GC30-2016-1			IBM SYSTEM/360 CONVERSATIONAL REMOTE JOB ENTRY: SYSTEMS PROGRAMMER'S GUIDE
GC30-2020-0	GN30-2534		IBM SYSTEM/360 OPERATING SYSTEM: PLANNING FOR THE TELECOMMUNICATIONS ACCESS METHOD (TCAM)
GC30-2022-0	GN30-2561		IBM SYSTEM/360 OPERATING SYSTEM TELECOMMUNICATIONS ACCESS METHOD CONCEPTS AND FACILITIES, PROGRAM NUMBER 360S-CQ-548
GC30-2024-2	**GN30-2573		OS TCAM PROGRAMMER'S GUIDE AND REFERENCE MANUAL PROGRAM NUMBER 360S-CQ-548
GC30-2025-0			OS TELECOMMUNICATIONS USER'S GUIDE PROGRAM NUMBER 360S-CQ-548
GC30-2026-0	GN30-2562		IBM SYSTEM/360 OPERATING SYSTEM CONVERSION GUIDE FROM QUEUED TELECOMMUNICATIONS ACCESS METHOD OR BASIC TELECOMMUNICATIONS ACCESS METHOD TO TELECOMMUNICATIONS ACCESS METHOD SYSTEM REFERENCE LIBRARY PROGRAM NUMBER 360S-CQ-548
GC30-2028-0	**GN30-2574		PLANNING FOR TCAM WITH THE IBM 3705 COMMUNICATIONS CONTROLLER PROGRAM NUMBER 360S-CQ-548
**GC30-3000-0			IBM 3705 COMMUNICATIONS CONTROLLER NETWORK PROGRAM GENERATION AND UTILITIES GUIDE AND REFERENCE MANUAL
**GC30-3002-0			IBM 3705 COMMUNICATIONS CONTROLLER EMULATION GENERATION AND UTILITIES GUIDE REFERENCE MANUAL - PROGRAM NUMBERS 360H-TX-035, 360H-TX-036
**GC30-3004-0			IBM 3705 COMMUNICATIONS CONTROLLER PRINCIPLES OF OPERATION - SYSTEM LIBRARY MANUAL
**GC30-5001-9			IBM SYSTEM/360 DISK OPERATING SYSTEM BASIC TELECOMMUNICATIONS ACCESS METHOD PROGRAM NUMBER 360N-CQ-469
GC30-5003-4			IBM SYSTEM/360 DISK OPERATING SYSTEM QTAM MESSAGE PROCESSING SERVICES - SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBER 360N-CQ-470
GC30-5004-3			IBM SYSTEM/360 DISK OPERATING SYSTEM QTAM MESSAGE CONTROL PROGRAM PROGRAM NUMBER 360N-CQ-470
GC33-0001-1	GN33-6024 GN33-6044	GN33-6034 **GN33-6057	OS PL/I OPTIMIZING COMPILER: GENERAL INFORMATION MANUAL PROGRAM NUMBER 5734-PL1
GC33-0003-1*	GN33-6048	**GN33-6063	OS PL/I CHECKOUT COMPILER: GENERAL INFORMATION PROGRAM NUMBERS 5734-PL2, 5734-LM4
GC33-0003-0*			

GC33-0004-1	GN33-6022	GN33-6025	DOS PL/I OPTIMIZING COMPILER: GENERAL INFORMATION MANUAL PROGRAM NUMBER 5736-PL1
SC33-0005-1			DOS PL/I OPTIMIZING COMPILER: LANGUAGE REFERENCE MANUAL PROGRAM NUMBER 5736-PL1
SC33-0006-0	SN33-6033	SN33-6042	OS PL/I OPTIMIZING COMPILER - PROGRAMMER'S GUIDE PROGRAM NUMBERS 5734-PL1, 5734-LM4, 5734-LM5
SC33-0007-0	**SN33-6052 SN33-6046	**SN33-6056	SYSTEM/360 OPERATING SYSTEM PL/I CHECKOUT COMPILER PROGRAMMER'S GUIDE - PROGRAM NUMBERS 5734-PL2, 5734-LM5
SC33-0008-0	SN33-6023	SN33-6028	DISK OPERATING SYSTEM PL/I OPTIMIZING COMPILER: PROGRAMMER'S GUIDE - PROGRAM NUMBER 5736-PL/1
SC33-0009-1	SN33-6037 SN33-6036		OS PL/I OPTIMIZING AND CHECKOUT COMPILER LANGUAGE REFERENCE MANUAL PROGRAM NUMBERS 5734-PL1, 5734-PL2, 5734-PL3
GC33-0010-1			IBM SYSTEM/360 DISK OPERATING SYSTEM DESIGN OBJECTIVES PL/I OPTIMIZING COMPILER - PROGRAM NUMBER 5736-PL1
GC33-0013-1			IBM SYSTEM/360 OPERATING SYSTEM PL/I OPTIMIZING COMPILER DESIGN OBJECTIVES - PROGRAM NUMBER 5734-PL1
GC33-0016-1			DOS PL/I OPTIMIZING COMPILER PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-PL1
GC33-0017-1			DOS PL/I RESIDENT LIBRARY PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-LM4
GC33-0018-1			DOS PL/I TRANSIENT LIBRARY PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-LM5
SC33-0019-0	**SN33-6029		DISK OPERATING SYSTEM/360 PL/I OPTIMIZING COMPILER: EXECUTION LOGIC PROGRAM NUMBERS 5736-PL1, 5736-LM4, 5736-LM5
SC33-0020-0	SN33-6026	SN33-6030	DOS PL/I OPTIMIZING COMPILER: SYSTEM INFORMATION MANUAL PROGRAM NUMBERS 5736-PL1, 5736-LM4, AND 5736-LM5
SC33-0021-0	SN33-6039		SYSTEM/360 DISK OPERATING SYSTEM PL/I OPTIMIZING COMPILER: MESSAGES MANUAL PROGRAM NUMBERS 5736-LM5, 5736-PL1
GC33-0022-1+			SYSTEM/360 OS PL/I OPTIMIZING COMPILER PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-PL1
GC33-0023-1+			OS PL/I RESIDENT LIBRARY - PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-LM4
GC33-0024-1+			OS PL/I TRANSIENT LIBRARY - PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-LM5
SC33-0025-0			SYSTEM/360 OPERATING SYSTEM PL/I OPTIMIZING COMPILER: EXECUTION LOGIC MANUAL - PROGRAM NUMBER 5734-PL1
SC33-0026-1			SYSTEM/360 OPERATING SYSTEM PL/I OPTIMIZING COMPILER: SYSTEM INFORMATION - PROGRAM NUMBERS 5734-PL1, 5734-LM4, 5734-LM5
SC33-0027-0	SN33-6053		OPERATING SYSTEM PL/I OPTIMIZING COMPILER: MESSAGES SYSTEM REFERENCE LIBRARY MANUAL PROGRAM NUMBERS 5734-PL1, 5734-LM5
**SC33-0029-1+			SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION PL/I OPTIMIZING COMPILER - SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBERS 5734-PL1, 5734-LM4, 5734-LM5
GC33-0030-0+			OS PL/I CHECKOUT COMPILER - PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-PL2
SC33-0031-0	SN33-6031	SN33-6047	SYSTEM/360 OPERATING SYSTEM PL/I OPTIMIZING COMPILER SYSTEM INFORMATION SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBERS 5734-PL2, 5734-LM5
SC33-0032-0			SYSTEM/360 OPERATING SYSTEM PL/I CHECKOUT COMPILER EXECUTION LOGIC MANUAL - PROGRAM NUMBERS 5734-PL2 5734-LM5
SC33-0033-0	SN33-6049		SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION: PL/I CHECKOUT COMPILER MANUAL PROGRAM NUMBERS 5734-PL2, 5734-LM5
SC33-0034-0	SN33-6054		SYSTEM/360 OPERATING SYSTEM PL/I CHECKOUT COMPILER: MESSAGES MANUAL - PROGRAM NUMBERS 5734-PL2, 5734-LM5
GC33-2000-2#			IBM SYSTEM/360 CONVERSION AIDS: ALGOL-TO-PL/I LANGUAGE CONVERSION PROGRAM FOR IBM SYSTEM/360 OPERATING SYSTEM, PROGRAM NUMBER 360C-CV-711
GC33-2000-1#	GN33-7001	GN33-7003	IBM SYSTEM/360 CONVERSION AIDS: THE 1410/7010 SIMULATOR FOR IBM SYSTEM/360, PROGRAM NUMBER 360C-SI-754
GC33-2003-0			SYSTEMS REFERENCE LIBRARY EMULATING THE IBM 1401, 1440 AND 1460 ON THE IBM SYSTEM/370 MODELS 145 AND 155 USING DISK OPERATING SYSTEM/360 EMULATING THE IBM 1410 AND 7010 ON THE IBM SYSTEM/370 MODELS 145 AND 155 USING DOS/360
GC33-2004-2			IBM SYSTEM/360 OPERATING SYSTEM ALGOL PROGRAMMER'S GUIDE PROGRAM NUMBERS 360S-AL-531, 360S-LM-532
GC33-2005-2#			IBM SYSTEM/360 OPERATING SYSTEM - SORT/MERGE SYSTEM INFORMATION - PROGRAM NUMBER 5734-SM1
GC33-2005-1#			SYSTEM GENERATION/INSTALLATION STORAGE REQUIREMENTS MESSAGES
GC33-4000-3			IBM SYSTEM/360 OPERATING SYSTEM, SORT/MERGE PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-SM1
SC33-4004-1	**SN33-8140		IBM SYSTEM/360 OPERATING SYSTEM, SORT/MERGE PROGRAMMER'S GUIDE - PROGRAM NUMBER 5734-SM1
**GC33-4006-2			IBM SYSTEM/360 OPERATING SYSTEM SORT/MERGE TIMING ESTIMATES, PROGRAM NUMBER 5734-SM1
SC33-4007-1#	**SN33-8138		IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER (E) INSTALLATION GUIDE PROGRAM NUMBER 360S-A5-036
SC33-4007-0#			IBM SYSTEM/370 MODEL 155 SORT/MERGE TIMING ESTIMATES PLANNING GUIDE PROGRAM NUMBER 360S-SM-023
GC33-4008-0	GN33-8104		IBM SYSTEM/360 DOS SORT MERGE DESIGN OBJECTIVES PROGRAM NUMBER 5734-SM1
GC33-4014-0			DOS SORT/MERGE PROGRAMMER'S GUIDE - PROGRAM NUMBER 5743-SM1
GC33-4015-0			IBM SYSTEM/360 DISK OPERATING SYSTEM SORT/MERGE GENERAL INFORMATION, PROGRAM NUMBER 5743-SM1
GC33-4017-1			SYSTEM/360 OPERATING SYSTEM SORT/MERGE GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5734-SM1
**SC33-4018-0			DOS SORT/MERGE INSTALLATION REFERENCE MANUAL PROGRAM NUMBER 5743-SM1
**GC33-4020-2			IBM SYSTEM/360 DISK OPERATING SYSTEM ASCII MAGNETIC TAPE UTILITIES PROGRAM NUMBER 5736-UT2
GC33-4022-0			IBM SYSTEM/360 DOS ASCII MAGNETIC TAPE UTILITIES PROGRAM GUIDE - PROGRAM NUMBER 5736-UT2
**SC33-4023-0+			SYSTEM/360 DOS ASCII MAGNETIC TAPE UTILITIES PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-UT2
GC33-5000-0			SYSTEM/360 DOS PLANNING GUIDE FOR PROGRAMMING THE 3330 DIRECT ACCESS STORAGE FACILITY SYSTEM/370 DISK OPERATING SYSTEM VERSION 4 - MANUAL DOS VERSION 4 SYSTEM GENERATION DOS VERSION 4 MESSAGES - SYSTEMS REFERENCE LIBRARY MANUAL PROGRAM NUMBER 360N-CL-453
SC33-5001-0			IBM SYSTEM/370 MODEL 135 OPERATING PROCEDURES - SYSTEM LIBRARY MANUAL
GC33-5002-0			OPERATOR'S LIBRARY: IBM SYSTEM/370 MODEL 145 OPERATING PROCEDURES
GC33-5004-0			
GC33-5007-0			
GC33-5008-0			
GC33-5009-0			
GC38-0005-0			
GC38-0015-1			

GC50-0001-2#			IBM 2701 DATA ADAPTER UNIT AND ASCII AUTODIN ADAPTER
GC50-0001-1#	GN20-2045		(RPO F16124): PRINCIPLES OF OPERATION
GE20-0022-1#			PUBLIC UTILITY CUSTOMER ACCOUNTING WITH THE IBM SYSTEM/360
GE20-0022-0#			ONLINE COMMUNICATION SYSTEM
GE20-0188-5#			RETAIL IMPACT
GE20-0188-4#			(INVENTORY MANAGEMENT PROGRAM AND CONTROL TECHNIQUES) -
			APPLICATION DESCRIPTION
			PROGRAM NUMBERS: 360A-DR-04X, 360A-DR-05X, 360A-DR-08X,
			360A-DR-09X
GE20-0228-1#			OPTIMUM BOND BIDDING - USER'S MANUAL
GE20-0228-0#			PROGRAM NUMBER 360A-FI-06X
GE20-0246-1#			SYSTEM/360 DEMAND DEPOSIT ACCOUNTING APPLICATION DESCRIPTION
GE20-0246-0#			PROGRAM NUMBER 360A-FB-15X
GE20-0256-2			SYSTEM/360 TEXT PROCESSOR -- COMPOSITION/360,
			APPLICATION DESCRIPTION
			PROGRAM NUMBER 360A-DP-08X
GE20-0257-2			SYSTEM/360 TEXT PROCESSOR - HYPHENATION/360 APPLICATION
			DESCRIPTION, PROGRAM NUMBER 360A-DP-07X
GE20-0306-1			1287 INPUT CONVERSION PROGRAM, APPLICATION DESCRIPTION
			PROGRAM NUMBER 360A-DR-07X
GF20-0312-2#			PREFACE TO PL/I PROGRAMMING IN SCIENTIFIC COMPUTING
GE20-0312-1#			
GE20-0324-1			SYSTEM/360 TEXT PROCESSOR -- EDIT/360, APPLICATION
			DESCRIPTION MANUAL PROGRAM NUMBER 5736-K11
GE20-0350-0			A PREFACE TO LINEAR PROGRAMMING AND ITS APPLICATIONS
GF20-6088-3#			PLANNING FOR AN IBM DATA PROCESSING SYSTEM
GF20-6088-2#			
GF20-8172-7	GN20-1002-32		BIBLIOGRAPHY OF DATA PROCESSING TECHNIQUES
GH12-5103-0			IBM SYSTEM/360 AND SYSTEM/370, IBM 1130 AND 1800 SUBROUTINE
			LIBRARY-MATHEMATICS (SL-MATH) GENERAL INFORMATION MANUAL
**SH12-5407-0			IBM SYSTEM/360 AND SYSTEM/370, STORAGE AND INFORMATION
			RETRIEVAL SYSTEM (STAIRS), PROGRAM PRODUCT REFERENCE
			MANUAL - PROGRAM NUMBER 5734-XR3
**SH12-5509-0	**SN12-5005		IBM SYSTEM/360 AND SYSTEM/370, STORAGE AND INFORMATION
			RETRIEVAL SYSTEM (STAIRS), OPERATION GUIDE
			PROGRAM PRODUCT 5734-XR3
GH19-0014-1			IBM SYSTEM/360 RESOURCE ALLOCATION (REAL/360)
			FOR PROJECT CONTROL SYSTEM/360
			APPLICATION DESCRIPTION MANUAL
			PROGRAM NUMBER 5736-XP2
SH19-0026-0			IBM SYSTEM/360 RESOURCE ALLOCATION (REAL/360)
			FOR PROJECT CONTROL SYSTEM/360
			PROGRAM DESCRIPTION AND OPERATIONS MANUAL
			PROGRAM NUMBER: 5736-XP2
GH19-2000-0			IBM VEHICLE SCHEDULING PROGRAM--EXTENDED
			GENERAL INFORMATION MANUAL
			PROGRAM NUMBERS 5734-XM5 (OS), 5736-XM3 (DOS)
SH19-2304-0			IBM VEHICLE SCHEDULING PROGRAM--EXTENDED
			(OS AND DOS) PROGRAM DESCRIPTION MANUAL
			PROGRAM NUMBERS 5734-XM5 (OS), 5736-XM3 (DOS)
SH19-2607-0			IBM VEHICLE SCHEDULING PROGRAM-EXTENDED (OS)
			OPERATIONS MANUAL, PROGRAM NUMBER 5734-XM5
SH19-2608-0			IBM VEHICLE SCHEDULING PROGRAM - EXTENDED (DOS)
			OPERATIONS MANUAL, PROGRAM NUMBER 5736-XM3
GH19-2903-0			IBM VEHICLE SCHEDULING PROGRAM - EXTENDED (DOS)
			SPECIFICATIONS - PROGRAM NUMBER 5736-XM3
GH19-5012-0			MATRIX GENERATOR AND REPORT WRITER (MGRW)
			GENERAL INFORMATION MANUAL - PROGRAM PRODUCT 5734-XNC
GH19-5042-0			MATRIX GENERATOR AND REPORT WRITER (MGRW) PRIMER
			PROGRAM PRODUCT 5734-XMC
GH19-7000-1	**GN19-0117		CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) AND
			GRAPHIC FEATURE (CSMP III GRAPHIC FEATURE) GENERAL
			INFORMATION MANUAL - PROGRAM NUMBER 5734-XS9
**SH19-7001-1			CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) PROGRAM
			REFERENCE MANUAL - PROGRAM NUMBER 5734-XS9
SH19-7002-0			CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III)
			OPERATIONS GUIDE - PROGRAM NUMBER 5734-XS9
SH19-7003-0	**SN19-0115		CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) GRAPHIC
			FEATURE - PROGRAM REFERENCE MANUAL - PROGRAM NUMBER 5734-XS9
SH19-7004-0			CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) GRAPHIC
			FEATURE OPERATIONS GUIDE - PROGRAM NUMBER 5734-XS9
GH19-7010-0			GRAPHIC FEATURE FOR THE CONTINUOUS SYSTEM MODELING PROGRAM
			III (CSMP III) - PROGRAM PRODUCT SPECIFICATIONS
			PROGRAM NUMBER 5734-XS9
GH20-0126-4	GN20-2100	GN20-2176	ADVANCED LIFE INFORMATION SYSTEM (DOS)
	GN20-2516		APPLICATION DESCRIPTION MANUAL
			PROGRAM NUMBER 5736-N11
GH20-0136-4#	GN20-1079		MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X)
GH20-0136-3#			APPLICATION DESCRIPTION
GH20-0149-3			SYSTEM/360 ONLINE TELLER PROGRAM WITH BACKGROUND PROCESSING
			CAPABILITY (360A-FB-16X) APPLICATION DESCRIPTION
GH20-0165-1			COMMUNICATION CONTROL APPLICATION PROGRAM (360A-SC-01X)
			APPLICATION DESCRIPTION
GH20-0166-5			SYSTEM/360 SCIENTIFIC SUBROUTINE PACKAGE (360A-CN-03X)
			VERSION III APPLICATION DESCRIPTION
GH20-0173-3			SYSTEM/360 WHOLESALE IMPACT PROGRAM LIBRARY (360A-DW-05X) -
			APPLICATION DESCRIPTION
GH20-0181-2			SYSTEM/360 APT NUMERICAL CONTROL PROCESSOR VERSIONS 3 AND 4
			(360-CN-10X) APPLICATION DESCRIPTION
GH20-0186-3#			GENERAL PURPOSE SIMULATION SYSTEM/360 - APPLICATION
			DESCRIPTION
			PROGRAM NUMBERS 360A-CS-17X, 360A-CS-19X
GH20-0194-1			SYSTEM/360 DATA CONVERSION UTILITIES - APPLICATION
			DESCRIPTION PROGRAM NUMBERS, 360A-SE-15X, 360A-SE-20X,
			360A-SE-26X
GH20-0197-3#			S/360 BILL OF MATERIAL PROCESSOR (360A-ME-06X)
GH20-0197-2#	GN20-2010	GN20-1864	APPLICATION DESCRIPTION
GH20-0199-2#			FLOCHART - APPLICATION DESCRIPTION
GH20-0199-1#			PROGRAM NUMBERS 360A-SE-22X
GH20-0202-1			STUDENT SCHEDULING SYSTEM/360 APPLICATION DESCRIPTION
			PROGRAM NUMBERS 360A-US-06X, 360A-US-07X
GH20-0205-4#			SYSTEM/360 SCIENTIFIC SUBROUTINE PACKAGE (360A-CN-03X)
GH20-0205-3#	GN20-1944		VERSION III PROGRAMMER'S MANUAL
GH20-0210-1			PROJECT MANAGEMENT SYSTEM (360A-CP-04X) VERSION 2 FOR IBM
			SYSTEM/360 - APPLICATION DESCRIPTION
GH20-0217-0			SYSTEM/360 COBOL EDIT ON THE 1401 PROGRAM REFERENCE MANUAL
			(1401-SE-13X)
GH20-0220-0			STUDENT SCHEDULING SYSTEM/360 THE TALLY AND CONFLICT MATRIX
			PROGRAMS (360A-US-06X) USER'S MANUAL
GH20-0222-2			SYSTEM/360 PROJECT CONTROL SYSTEM (360A-CP-06X) VERSION 2
			APPLICATION DESCRIPTION
GH20-0232-1			SYSTEM/360 DATA CONVERSION UTILITY I PROGRAMMER'S MANUAL
			(360A-SE-15X)
GH20-0233-1			SYSTEM/360 DATA CONVERSION UTILITY I OPERATOR'S MANUAL
			(360A-SE-15X)
GH20-0239-1			STUDENT SCHEDULING SYSTEM/360 THE SCHEDULER PROGRAM
			(360A-US-07X) USER'S MANUAL

GH20-0240-3			SYSTEM/360 CONTINUOUS SYSTEM MODELING PROGRAM (360A-CX-16X) APPLICATION DESCRIPTION
GH20-0242-1			SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR OS/360 APPLICATION DESCRIPTION
GH20-0243-1			PROGRAM NUMBER 360A-SE-33X SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR DOS/360 APPLICATION DESCRIPTION
GH20-0244-1			COMMUNICATIONS CONTROL APPLICATION PROGRAM (360A-SC-01X) PROGRAMMER'S MANUAL
GH20-0245-0			COMMUNICATIONS CONTROL APPLICATION PROGRAM (360A-SC-01X)
GH20-0246-2	GN20-2011	GN20-1070	S/360 BILL OF MATERIAL PROCESSOR (360A-ME-06X) VERSION 2 PROGRAMMER'S MANUAL
GH20-0254-2#			S/360 BILL OF MATERIAL PROCESSOR (360A-ME-06X) VERSION 2
GH20-0254-1#			OPERATOR'S MANUAL
GH20-0255-2	GN20-2201	GN20-2262	SYSTEM/360 WHOLESALE IMPACT PROGRAM LIBRARY (360A-DW-05X) - USER'S MANUAL
GH20-0256-3#			SYSTEM/360 WHOLESALE IMPACT PROGRAM LIBRARY (360A-DW-05X) -
GH20-0256-2#	GN20-2202		OPERATOR'S MANUAL
GH20-0262-0			SYSTEM/360 DEMAND DEPOSIT ACCOUNTING (360A-FB-15X) - OPERATOR'S MANUAL
GH20-0263-2			SYSTEM/360 DEMAND DEPOSIT ACCOUNTING (360A-FB-15X) PROGRAMMER'S MANUAL - PROGRAM NUMBER 360A-FB-15X
GH20-0203-4			PROPERTY AND LIABILITY INFORMATION SYSTEMS (PALIS) APPLICATION DESCRIPTION MANUAL
GH20-0285-0	GN20-1006		PROGRAM NUMBERS 360A-IF-10X, -11X, -13X, AND 5736-N21, -22 SYSTEM/360 DATA CONVERSION UTILITY III, VERSION 2 PROGRAMMER'S MANUAL (360A-SE-26X)
GH20-0286-0			SYSTEM/360 DATA CONVERSION UTILITY III, VERSION 2 OPERATOR'S MANUAL
GH20-0290-3	GN20-1999	GN20-1078	PROGRAM NUMBER 360A-SE-26X MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X) VERSION 2 CONTROL LANGUAGE USER'S MANUAL
GH20-0293-2			SYSTEM/360 FLOWCHART USER'S MANUAL (360A-SE-22X)
GH20-0294-1	GN20-1943		SYSTEM/360 FLOWCHART OPERATOR'S MANUAL PROGRAM NUMBER 360A-SE-22X
GH20-0297-3			SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM-OS (ATS/OS) (360A-CX-19X) APPLICATION DESCRIPTION MANUAL
GH20-0302-3			SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS) APPLICATION PROGRAM MANUAL - PROGRAM NUMBER 360A-UH-11X
GH20-0304-4	GN20-2419		GENERAL PURPOSE SIMULATION SYSTEM/360 INTRODUCTORY USER'S MANUAL
GH20-0305-1	GN20-2205		PROGRAM NUMBERS 360A-CS-17X, 360A-CS-19X SYSTEM/360 ON LINE TELLER PROGRAM WITH BACKGROUND PROCESSING CAPABILITY (PROGRAM NUMBER 360A-FB-16X) PROGRAMMER'S MANUAL
GH20-0309-5#			SYSTEM/360 APT NUMERICAL CONTROL PROCESSOR VERSION 4
GH20-0309-4#	GN20-2347		PART PROGRAMMING MANUAL PROGRAM NUMBER 360A-CI-10X
GH20-0311-3	GN20-2420		GENERAL PURPOSE SIMULATION (360A-CS-17X) SYSTEM/360-OS - OPERATOR'S MANUAL
GH20-0314-1	GN20-1091		SYSTEM/360 DATA CONVERSION UTILITY II, VERSION 3 (DIRECT ACCESS INDEXED SEQUENTIAL) - OPERATOR'S MANUAL (360A-SE-20X)
GH20-0315-0			IBM SYSTEM/360 DOCUMENT PROCESSING SYSTEM (360A-CX-12X) APPLICATION DESCRIPTION
GH20-0318-7			CUSTOMER INFORMATION CONTROL SYSTEM DOS-ENTRY (CICS/DOSE), PROGRAM NUMBER 5736-XX6, DOS-STANDARD (CICS/DOSS), PROGRAM NUMBER 5736-XX7, OS-STANDARD (CICS/OS), PROGRAM NUMBER 5736-U11, APPLICATION DESCRIPTION
GH20-0319-2#			SYSTEM/360 DATA CONVERSION AND LABEL PROCESSING SUBROUTINES, VERSION 2 PROGRAM REFERENCE MANUAL (360A-SE-23X)
GH20-0319-1#			IBM SYSTEM/360 AND SYSTEM/370 ATTACHED SUPPORT PROCESSOR
GH20-0321-0			SYSTEM (ASP) VERSION 2 CONSOLE OPERATOR'S MANUAL PROGRAM NUMBER 360A-CX-15X
GH20-0322-7			IBM SYSTEM/360 AND SYSTEM/370 ATTACHED SUPPORT PROCESSOR SYSTEM (ASP) VERSION 2, APPLICATION PROGRAMMER'S MANUAL PROGRAM NUMBER 360A-CX-15X
GH20-0323-8			IBM SYSTEM/360 AND SYSTEM/370 ATTACHED SUPPORT PROCESSOR SYSTEM (ASP) VERSION 2, SYSTEM PROGRAMMER'S MANUAL PROGRAM NUMBER 360A-CX-15X
GH20-0325-1	GN20-2204		SYSTEM/360 ONLINE TELLER PROGRAM WITH BACKGROUND PROCESSING CAPABILITY (PROGRAM NUMBER 360A-FB-16X) OPERATOR'S MANUAL
GH20-0326-4	GN20-2470		GENERAL PURPOSE SIMULATION SYSTEM/360 USER'S MANUAL
GH20-0327-3			GENERAL PURPOSE SIMULATION SYSTEM/360, DISK OPERATING SYSTEM (360A-CS-19X) OPERATOR'S MANUAL
GH20-0329-2#			SYSTEM/360 PRODUCT STRUCTURE RETRIEVAL PROGRAM APPLICATION DESCRIPTION
GH20-0329-1#			PROGRAM NUMBERS 360A-ME-07X
GH20-0331-6			SYSTEM/360 APT NUMERICAL CONTROL PROCESSOR (360A-CN-10X) VERSION 4 OPERATIONS MANUAL
GH20-0344-2			PROJECT MANAGEMENT SYSTEM/360 (360A-CP-04X) VERSION 2 PROGRAM DESCRIPTION AND OPERATIONS MANUAL
GH20-0346-0	GN20-1903		SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR DOS/360 USER'S MANUAL (360A-SE-32X)
GH20-0347-1#			SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR DOS/360
GH20-0347-0#			OPERATOR'S MANUAL (360A-SE-32X)
GH20-0349-0	GN20-1074		SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR OS/360 USER'S MANUAL (360A-SE-33X)
GH20-0350-1			SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR OS/360 OPERATOR'S MANUAL (360A-SE-33X)
GH20-0352-2			1400 AUTOCODER TO COBOL CONVERSION AID PROGRAM - APPLICATION DESCRIPTION (360A-SE-19X)
GH20-0354-2	GN20-2365		SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM (RAX) (360A-CX-17X) VERSION 4 PROGRAM DESCRIPTION MANUAL
GH20-0355-1	GN20-1937		SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM (RAX) (360A-CX-17X) VERSION 3 OPERATIONS MANUAL
GH20-0367-4			SYSTEM/360 CONTINUOUS SYSTEM MODELING PROGRAM (360A-CX-16X) USER'S MANUAL
GH20-0368-3			SYSTEM/360 CONTINUOUS SYSTEM MODELING PROGRAM (360A-CX-16X) OPERATIONS MANUAL
GH20-0369-0			SYSTEM/360 PRODUCT STRUCTURE RETRIEVAL PROGRAM (360A-ME-07X) PROGRAMMER'S MANUAL
GH20-0370-0			SYSTEM/360 PRODUCT STRUCTURE RETRIEVAL PROGRAM (360A-ME-07X) OPERATOR'S MANUAL
GH20-0372-3			MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X) VERSION 2 READ COMMUNICATIONS FORMAT (READCOMH) PROGRAM REFERENCE MANUAL
GH20-0373-2			S/360 AUTOSPOT (360A-CN-08X) AND AD-APT/AUTOSPOT (360A-CN-09X) NUMERICAL CONTROL PROCESSORS-VERSION 2 PART PROGRAMMING MANUAL
GH20-0374-2			S/360 AUTOSPOT (360A-CN-08X) AND AD-APT/AUTOSPOT (360A-CN-09X) NUMERICAL CONTROL PROCESSORS-VERSION 2 OPERATOR'S MANUAL
GH20-0375-2#			SYSTEM/360 AD-APT/AUTOSPOT NUMERICAL CONTROL PROCESSOR (360A-CN-09X) VERSION 2 PART PROGRAMMING MANUAL
GH20-0375-1#			PROJECT CONTROL SYSTEM/360 (360A-CP-08X) VERSION 2
GH20-0376-3#			PROGRAM DESCRIPTION AND OPERATIONS MANUAL
GH20-0376-2#			
GH20-0376-1#			

GH20-0462-0	GN20-1064		S/360 AUTOSPOT (360A-CN-09X) AND AD-APT/AUTOSPOT (360A-CN-09X) NUMERICAL CONTROL PROCESSOR VERSION 2 APPLICATION DESCRIPTION
GH20-0463-0	GN20-1065		SYSTEM/360 AD-APT/AUTOSPOT NUMERICAL CONTROL PROCESSOR (360A-CN-09X) APPLICATION DESCRIPTION
GH20-0464-1	GN20-1917	GN20-1954	IBM SYSTEM/360 VEHICLE SCHEDULING PROGRAM (360A-ST-06X) APPLICATION DESCRIPTION
GH20-0471-2	GN20-1077		SYSTEM/360 INVENTORY CONTROL APPLICATION DESCRIPTION
GH20-0476-2#			MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X) LINEAR AND SEPARABLE PROGRAMMING - USER'S MANUAL
GH20-0476-1#			IBM SYSTEM/360 DOCUMENT PROCESSING SYSTEM (360A-CX-12X) PROGRAM DESCRIPTION AND OPERATIONS MANUAL
GH20-0477-2#	GN20-2123	GN20-2064	
GH20-0477-1#	GN20-2009		
GH20-0479-1	GN20-2069		SYSTEM/360 MATRIX LANGUAGE (MATLAN) (360A-CN-05X) APPLICATION DESCRIPTION
GH20-0480-1#	** GN20-2586		IBM RETAIL IMPACT FASHION SYSTEM UNDER OPERATING SYSTEM/360 (360A-DR-04X) - PROGRAM DESCRIPTION MANUAL
GH20-0480-0#	GN20-2018	GN20-1908	
** GH20-0481-1	GN20-1084		RETAIL IMPACT FASHION SYSTEM UNDER OPERATING SYSTEM/360 (360A-DR-04X) - OPERATIONS MANUAL
GH20-0483-1	GN20-2108	GN20-2177	ADVANCED LIFE INFORMATION SYSTEM (DOS) POLICY MASTER RECORD CODE BOOK PROGRAM NUMBER 5736-N11
GH20-0487-3			SYSTEM/360 REQUIREMENTS PLANNING APPLICATION DESCRIPTION PROGRAM NUMBER 360A-NF-05X
GH20-0489-1	GN20-2582		PROGRAM FOR OPTICAL SYSTEM DESIGN/II (POSD/II) APPLICATION DESCRIPTION PROGRAM NUMBER 1130-EO-14X
GH20-0490-1			PROBLEM LANGUAGE ANALYZER (PLAN) APPLICATION DESCRIPTION PROGRAM NUMBERS 1130-CX-25X 360A-CX-26X 360A-CX-27X
GH20-0492-1			SYSTEM/360 DECISION LOGIC TRANSLATOR APPLICATION DESCRIPTION PROGRAM NUMBER 360A-CX-32X
GH20-0496-0	GN20-1088	GN20-1860	MARVEL/360 (360A-CO-15X) PRIMER
GH20-0497-2			PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) BASIC PROGRAM (360A-IF-10X) PROGRAM DESCRIPTION AND SYSTEM MANUAL
GH20-0498-2			PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) BASIC PROGRAM (360A-IF-10X) OPERATIONS MANUAL
GH20-0499-1			PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) AUTOMOBILE PREMIUM PROCESSING PROGRAM DESCRIPTION AND SYSTEM MANUAL PROGRAM NUMBERS: 360A-IF-11X, 5736-N21
GH20-0500-1			PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) AUTOMOBILE CLAIMS PROCESSING (360A-IF-11X) PROGRAM DESCRIPTION AND SYSTEM MANUAL
GH20-0501-0			PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) PROGRAM DESCRIPTION MANUAL PROGRAM NUMBERS 360A-IF-10X, 360A-IF-11X, 360A-IF-13X, 5736-N21
GH20-0503-1	GN20-2174		PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) OTHER LINES PREMIUM PROCESSING (360A-IF-13X) PROGRAM DESCRIPTION AND SYSTEM PROCESSING
GH20-0504-1	GN20-2173		PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) OTHER LINES CLAIMS PROCESSING (360A-IF-13X) PROGRAM DESCRIPTION AND SYSTEM MANUAL
GH20-0505-1			MARVEL/360 (360A-CO-15X) PROGRAM DESCRIPTION MANUAL
GH20-0506-1#			SYSTEM/360 VEHICLE SCHEDULING PROGRAM (360A-ST-06X) PROGRAM DESCRIPTION AND OPERATIONS MANUAL
GH20-0506-0#			BIBLIOGRAPHY OF APPLICATION PUBLICATION FINANCE INDUSTRIES
GH20-0507-3	GN20-2135		SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM DOS (ATS/DOS) (360A-CX-18X) PROGRAM DESCRIPTION MANUAL
GH20-0508-1			SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM DOS (ATS/DOS) (360A-CX-18X) TERMINAL OPERATOR'S MANUAL
GH20-0509-1			SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM DOS (ATS/DOS) (360A-CX-18X) APPLICATION DESCRIPTION
GH20-0510-2			SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM DOS (ATS/DOS) (ATS/DOS) (360A-CX-18X) COMPUTER CENTER OPERATOR'S MANUAL
GH20-0511-1			MARVEL/360 (360A-CO-15X) OPERATIONS MANUAL
GH20-0512-1	GN20-1956		LINEAR PROGRAMMING SYSTEM/360 (LPS/360) (360A-CO-18X) APPLICATION DESCRIPTION
GH20-0513-1			ADVANCED LIFE INFORMATION SYSTEM (DOS) OPERATIONS MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0517-2	GN20-2518		ADVANCED LIFE INFORMATION SYSTEM (DOS) PROGRAM DESCRIPTION MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0518-2	GN20-2519		ADVANCED LIFE INFORMATION SYSTEM (DOS) UTILITY PROGRAM DESCRIPTION MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0519-1	GN20-2062	GN20-2179	
GH20-0521-2	GN20-2520		SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-CX1
** GH20-0522-3			BIBLIOGRAPHY OF APPLICATION PUBLICATIONS - DISTRIBUTION INDUSTRIES
GH20-0523-0			SYSTEM/360 AD-APT/AUTOSPOT (OS) NUMERICAL CONTROL PROCESSOR APPLICATION DESCRIPTION PROGRAM NUMBER 360A-CN-12X
GH20-0524-2#			INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360 (SYSTEM DESCRIPTION) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-CX3
GH20-0524-1#	GN20-2012	GN20-1945	
GH20-0525-0	** GN20-2789		SYSTEM/360 TEXT PROCESSOR - HYPHENATION/360 (360A-DP-07X), PROGRAM DESCRIPTION MANUAL
GH20-0526-1			SYSTEM/360 TEXT PROCESSOR - HYPHENATION/360 (360A-DP-07X), OPERATIONS MANUAL
GH20-0527-0	GN20-2021		SYSTEM/360 1287 INPUT CONVERSION PROGRAM (360A-DR-07X) PROGRAM DESCRIPTION MANUAL
GH20-0528-0	GN20-2022		SYSTEM/360 1287 INPUT CONVERSION PROGRAM (360A-DR-07X) OPERATIONS MANUAL
GH20-0530-3			BIBLIOGRAPHY OF APPLICATION PUBLICATIONS, PUBLIC UTILITY INDUSTRIES
GH20-0531-3			BIBLIOGRAPHY OF APPLICATION PUBLICATIONS - MEDIA INDUSTRIES
GH20-0532-4			SYSTEM/360 POWER SYSTEM PLANNING (PCP) FOR THE ELECTRIC UTILITY INDUSTRY PROGRAM NUMBER 5736-U12
GH20-0533-2#			SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS) (360A-UH-11X) PROGRAM DESCRIPTION MANUAL
GH20-0533-1#			SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS) (360A-UH-11X) APPLICATION PROGRAM MANUAL
GH20-0534-2			PLAN GRAPHICS SUPPORT FOR THE IBM 2250 APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 360A-CX-26X
GH20-0535-2			BIBLIOGRAPHY OF APPLICATION PUBLICATIONS INSURANCE INDUSTRY
GH20-0536-3			GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (GATD) APPLICATION DESCRIPTION MANUAL (5734-XX2)
GH20-0539-1			

GH20-0540-0	GN20-2017	GN20-1909	RETAIL IMPACT FASHION SYSTEM UNDER DISK OPERATING SYSTEM/360
**GN20-2588	GN20-2588		(360A-DR-08X) PROGRAM DESCRIPTION MANUAL
GH20-0541-0	GN20-1910	GN20-2545	RETAIL IMPACT FASHION SYSTEM UNDER DISK OPERATING SYSTEM/360
GH20-0544-1			(360A-DR-08X), OPERATIONS MANUAL
GH20-0545-1			SYSTEM/360 SCIENTIFIC SUBROUTINE PACKAGE (PL/I)
GH20-0549-1			(360A-CM-07X) APPLICATION DESCRIPTION MANUAL
GH20-0550-0			SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM (RAX)
GH20-0555-1	GN20-2434		(360A-CX-17X) VERSION 4 APPLICATION DESCRIPTION
GH20-0556-0			SYSTEM/360 AD-APT/AUTOSPOT (OS) NUMERICAL CONTROL PROCESSOR
GH20-0557-2			(360A-CN-12X) PART PROGRAMMING MANUAL
**GH20-0558-1			SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS) (360A-UH-11X)
GH20-0559-1			TELEPROCESSING OPERATIONS MANUAL
GH20-0560-1#			SYSTEM/360 INVENTORY CONTROL (360A-MF-04X) PROGRAM
GH20-0560-0#			DESCRIPTION MANUAL
GH20-0561-0			SYSTEM/360 INVENTORY CONTROL (360A-MF-04X) OPERATIONS
GH20-0564-1#			MANUAL
GH20-0564-0#			SYSTEM/360 AD-APT/AUTOSPOT (OS) NUMERICAL CONTROL PROCESSOR
GH20-0572-0			(360A-CN-12X) OPERATION'S MANUAL
GH20-0573-0			SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE APPLICATION
GH20-0574-1#			DESCRIPTION MANUAL
GH20-0574-0#			PROGRAM NUMBERS 5736-P71, 5736-P72
GH20-0576-0			SYSTEM/360 MATRIX LANGUAGE (MATLAN) (360A-CM-05X) OPERATIONS
GH20-0577-1			MANUAL
GH20-0578-1			MATHEMATICAL PROGRAMMING SYSTEM/360 REPORT GENERATOR
GH20-0579-0			(MPSRG) (360A-CO-20X) PROGRAM DESCRIPTION MANUAL
GH20-0582-1#			MATHEMATICAL PROGRAMMING SYSTEM/360 REPORT GENERATOR
GH20-0582-0#			(MPSRG) (360A-CO-20X) OPERATIONS MANUAL
GH20-0583-0			SYSTEM/360 MATRIX LANGUAGE (MATLAN) (360A-CM-05X)
GH20-0584-0			PROGRAM DESCRIPTION MANUAL
GH20-0585-0			SYSTEM/360 DECISION LOGIC TRANSLATOR (360A-CX-32X) PROGRAM
GH20-0586-0			DESCRIPTION MANUAL
GH20-0587-1			SYSTEM/360 DECISION LOGIC TRANSLATOR (360A-CX-32X)
GH20-0588-1			OPERATIONS MANUAL
GH20-0589-2#			SYSTEM/360 GENERALIZED INFORMATION SYSTEM APPLICATION
GH20-0589-1#			DESCRIPTION MANUAL (5736-CX1)
GH20-0590-1#			1130 PROJECT CONTROL SYSTEM VERSION 2 (1130-CP-05X)
GH20-0590-0#			APPLICATION DESCRIPTION MANUAL
**GH20-0591-2#			PROGRAM FOR OPTICAL SYSTEM DESIGN/II (POSD/II) (1130-EO-14X,
GH20-0591-1#			360A-EO-15X, 360A-EO-16X) PROGRAM DESCRIPTION MANUAL
GH20-0591-0#			PROGRAM FOR OPTICAL SYSTEM DESIGN/II (POSD/II) (1130-EO-14X,
GH20-0592-1			360A-EO-15X, 360A-EO-16X) OPERATIONS MANUAL
GH20-0593-0			SYSTEM/360 TEXT PROCESSOR - COMPOSITION/360 (360A-DP-08X),
GH20-0594-1			OPERATIONS MANUAL
GH20-0596-1#			SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM-OS (ATS/OS)
GH20-0596-0#			(360A-CX-19X) PROGRAM DESCRIPTION MANUAL
GH20-0597-0			SYSTEM/360 REQUIREMENTS PLANNING (360A-MF-05X) OPERATIONS
GH20-0599-3#			MANUAL
GH20-0599-2#			SYSTEM/360 REQUIREMENTS PLANNING (360A-MF-05X) PROGRAM
GH20-0599-1#			DESCRIPTION MANUAL
GH20-0602-0			SYSTEM/360 TEXT PROCESSOR - COMPOSITION/360 (360A-DP-08X),
GH20-0603-0			PROGRAM DESCRIPTION MANUAL
GH20-0604-1			SYSTEM/360 SCIENTIFIC SUBROUTINE PACKAGE (PL/I)
GH20-0605-2			(360A-CM-07X) PROGRAM DESCRIPTION AND OPERATIONS MANUAL
GH20-0606-1			COURSEWRITER III FOR SYSTEM/360 VERSION 2 APPLICATION
GH20-0607-0			DESCRIPTION PROGRAM NUMBER 360A-UX-01X
GH20-0608-1			ADVANCED LIFE INFORMATION SYSTEM (DOS)
GH20-0609-1#			HOME OFFICE INQUIRY PROGRAM OPERATION MANUAL
GH20-0609-0#			PROGRAM NUMBER 5736-N11
GH20-0610-1			SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM-OS (ATS/OS)
GH20-0611-0			(360A-CX-19X) TERMINAL OPERATIONS MANUAL
GH20-0612-0			SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM - OS (ATS/OS)
GH20-0613-0			PROGRAM NUMBER 360A-CX-19X
GH20-0614-0			SYSTEM/360 RETAIL IMPACT STAPLE SYSTEM (OS)
GH20-0615-0			PROGRAM DESCRIPTION MANUAL
GH20-0617-0			PROGRAM NUMBER 360A-DR-05X
GH20-0618-0			SYSTEM/360 RETAIL IMPACT STAPLE SYSTEM (DOS)
GH20-0619-0			OPERATIONS MANUAL - PROGRAM NUMBER 360A-DR-09X
GH20-0620-0			SYSTEM/360 RETAIL IMPACT STAPLE SYSTEM (OS)
SH20-0605-2			OPERATIONS MANUAL - PROGRAM NUMBER 360A-DR-09X
SH20-0606-1			PROBLEM LANGUAGE ANALYZER (PLAN) - PROGRAM NUMBERS
SH20-0607-0			1130-CX-25X, 360A-CX-26X, 360A-CX-27X
SH20-0608-1			PROGRAM REFERENCE MANUAL
SH20-0609-1#			SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (OS)
SH20-0610-1			OPERATIONS MANUAL - PROGRAM NUMBER 360A-CX-27X
SH20-0611-0			SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (DOS)
SH20-0612-0			(360A-CX-26X) OPERATIONS MANUAL
SH20-0613-0			SYSTEM/360 RETAIL IMPACT STAPLE SYSTEM (DOS)
SH20-0614-0			PROGRAM DESCRIPTION MANUAL - PROGRAM NUMBER 360A-DR-09X
SH20-0615-0			MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X) OPERATIONS
SH20-0617-0			MANUAL
SH20-0618-0			MATHEMATICAL PROGRAMMING SYSTEM/360 (360A-CO-14X)
SH20-0619-0			MESSAGE MANUAL
SH20-0620-0			SYSTEM/360 ORDER ALLOCATION SYSTEM
			APPLICATION DESCRIPTION MANUAL - 5736-D41
			CUSTOMER INFORMATION CONTROL SYSTEM, OS-STANDARD (CICS/OS)
			(5736-U11), PROGRAM DESCRIPTION
			CUSTOMER INFORMATION CONTROL SYSTEM, OS-STANDARD
			(CICS/OS), (5736-U11) OPERATION MANUAL
			LINEAR PROGRAMMING SYSTEM/360 (LPS/360) (360A-CO-18X)
			PROGRAM DESCRIPTION MANUAL
			COURSEWRITER III FOR SYSTEM/360 (360A-UX-01X)
			STUDENT/MONITOR USER'S GUIDE VERSION 2
			COURSEWRITER III FOR SYSTEM/360 (360A-UX-01X) VERSION 2
			AUTHOR'S GUIDE
			COURSEWRITER III FOR SYSTEM/360 (360A-UX-01X) VERSION 2
			SUPERVISOR'S GUIDE
			LINEAR PROGRAMMING SYSTEM/360 (LPS/360) (360A-CO-18X)
			OPERATIONS MANUAL
			RIGID FRAME SELECTION PROGRAM (RFSP) OPERATIONS MANUAL
			PROGRAM NUMBER 1130-EC-09X 5734-EC1 5736-EC1
			RIGID FRAME SELECTION PROGRAM RFSP
			PROGRAM DESCRIPTION MANUAL
			PROGRAM NUMBER 5734-EC1 5736-EC1
			PLAN GRAPHICS SUPPORT FOR THE IBM 2250 ON SYSTEM/360 (OS)
			OR IBM 1130 PROGRAM DESCRIPTION MANUAL PROGRAM NUMBERS
			360A-CX-34X AND 1130-CX-33X
			PLAN GRAPHICS SUPPORT FOR THE IBM 2250 ON SYSTEM/360 (OS)
			OPERATIONS MANUAL PROGRAM NUMBER 360A-CX-34X
			MECHANISM DESIGN SYSTEM-KINEMATICS PROGRAM DESCRIPTION
			MANUAL PROGRAM NOS. 1130-EM-03X, 360A-EM-04X AND 360A-EM-05X
			MECHANISM DESIGN SYSTEM-KINEMATICS OPERATIONS MANUAL
			PROGRAM NOS. 1130-EM-03X, 360A-EM-04X AND 360A-EM-05X
			SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE:
			PROGRAM DESCRIPTION MANUAL
			PROGRAM NUMBERS 5736-P71 AND 5736-P72
			SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE - PS:
			OPERATIONS MANUAL - PROGRAM NUMBER 5736-P71

GH20-0621-0			SYSTEM /360 ARRAY PROCESSING SUBROUTINE PACKAGE- OS: OPERATIONS MANUAL - PROGRAM NUMBER 5736-P72
SH20-0622-2#			SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) PROGRAM
SH20-0622-1#			DESCRIPTION MANUAL VOLUME 1: SYSTEM OVERVIEW AND CONTROL
SH20-0622-0#			(5736-CX1)
SH20-0623-1	SN20-2216		SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) AND SYSTEM/360 GENERALIZED INFORMATION SYSTEM PROGRAM
			DESCRIPTION MANUAL VOLUME II: DATA DESCRIPTION
			LANGUAGE (5736-CX1)
SH20-0625-1#			SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) OPERATIONS
SH20-0625-0#			MANUAL (5736-CX1)
GH20-0626-0			PROBLEM LANGUAGE ANALYZER (PLAN) USERS' INTRODUCTION
			PROGRAM NUMBERS 1130-CX-25X, 360A-CX-26X AND 360A-CX-27X
GH20-0627-2			SYSTEM/360 CAPACITY PLANNING - INFINITE LOADING
			SYSTEM/360 CAPACITY PLANNING - FINITE LOADING
			APPLICATION DESCRIPTION MANUAL
			PROGRAM NUMBERS: 5736-N11 5736-N12
GH20-0629-0	GN20-2230		LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM
			(LEHRAS): APPLICATION DESCRIPTION MANUAL
			PROGRAM NUMBER 5736-G21
SH20-0630-1			SYSTEM/360 GENERALIZED INFORMATION SYSTEM
			PROGRAM DESCRIPTION MANUAL VOLUME 1:
			SYSTEM OVERVIEW AND CONTROL (5736-CX1)
SH20-0632-1#	SN20-2129	SN20-2219	SYSTEM/360 GENERALIZED INFORMATION SYSTEM OPERATIONS MANUAL
SH20-0632-0#	SN20-2339		(5736-CX1)
SH20-0634-1			INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360
			PROGRAM DESCRIPTION MANUAL
			PROGRAM NUMBER 5736-CX3
SH20-0635-1	SN20-2340		INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360:
			OPERATIONS MANUAL, VOLUME I - SYSTEMS OPERATION
			PROGRAM NUMBER 5736-CX3
SH20-0636-1	SN20-2341		INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360
			OPERATIONS MANUAL VOLUME II - MACHINE OPERATIONS
			PROGRAM NUMBER 5736-CX3
GH20-0645-0	GN20-2137	GN20-2097	ADVANCED LIFE INFORMATION SYSTEM (DOS)
	GN20-2158	**GN20-2521	BATCH EDIT, SYSTEM MANUAL
			(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0646-0	GN20-2109	GN20-2159	ADVANCED LIFE INFORMATION SYSTEM (DOS)
			ALIS -- INPUT EDIT, SYSTEM MANUAL
			(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0647-0	GN20-2160	GN20-2523	ADVANCED LIFE INFORMATION SYSTEM (DOS)
			FREQUENTLY USED RECORD FORMATS, SYSTEM MANUAL
			(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0648-0	GN20-2105	GN20-2161	ADVANCED LIFE INFORMATION SYSTEM (DOS)
			MISCELLANEOUS VOLUME, SYSTEM MANUAL
			(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0649-1			ADVANCED LIFE INFORMATION SYSTEM (DOS)
			FILE MAINTENANCE RUN EXECUTIVE, SYSTEM MANUAL
			(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0650-1	GN20-2526		ADVANCED LIFE INFORMATION SYSTEM (DOS)
			DATA CELL REORGANIZATION PROGRAM, POLICY MASTER RECORD MERGE
			PROGRAM, DATA CELL RECONSTRUCTION PROGRAM, AND DATA CELL
			RESTORE PROGRAM, SYSTEMS MANUAL
			PROGRAM NUMBERS 360A-IL-09X AND 5736-N11
GH20-0651-1	GN20-2287	**GN20-2527	ADVANCED LIFE INFORMATION SYSTEM (DOS)
			ALIS -- FILE MAINTENANCE INCLUDE (R) ROUTINES (NARRATIVES),
**GH20-0652-1			SYSTEM MANUAL - PROGRAM NUMBERS 360A-IL-09X AND 5736-N11
			ADVANCED LIFE INFORMATION SYSTEM (DOS)
			FILE MAINTENANCE INCLUDE (R) ROUTINES (FLOWCHARTS),
			SYSTEM MANUAL
			(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0653-1			ADVANCED LIFE INFORMATION SYSTEM (DOS)
			FILE MAINTENANCE CALL (S) ROUTINES (NARRATIVES),
			SYSTEM MANUAL
			PROGRAM NUMBERS 360A-IL-09X, 5736-N11
**GH20-0654-1			ADVANCED LIFE INFORMATION SYSTEM (DOS)
			FILE MAINTENANCE CALL ROUTINES (S) (FLOWCHARTS),
			SYSTEM MANUAL
			(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0655-0	GN20-2094	GN20-2167	ADVANCED LIFE INFORMATION SYSTEM (DOS)
	GN20-2529		FILE MAINTENANCE ISSUES, ADDITIONS, COMPLEX CHANGES, AND
			TERMINATIONS TRANSACTIONS, SYSTEM MANUAL
			PROGRAM NUMBERS 360A-IL-09X AND 5736-N11
GH20-0656-0	GN20-2112	GN20-2168	ADVANCED LIFE INFORMATION SYSTEM (DOS)
			FILE MAINTENANCE SIMPLE CHANGES TRANSACTIONS, SYSTEM MANUAL
			PROGRAM NUMBERS 5736-N11 AND 360A-IL-09X
GH20-0657-0	GN20-2093	GN20-2181	ADVANCED LIFE INFORMATION SYSTEM (DOS)
	GN20-2530		FILE MAINTENANCE 36XX FINANCIAL TRANSACTIONS - PAYMENTS,
			SYSTEM MANUAL
			(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0658-0	GN20-2092	GN20-2182	ADVANCED LIFE INFORMATION SYSTEM (DOS)
	GN20-2565		FILE MAINTENANCE FINANCIAL TRANSACTIONS ACCOUNTING ENTRIES,
			SYSTEM MANUAL
			(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0659-0	GN20-2091	GN20-2169	ADVANCED LIFE INFORMATION SYSTEM (DOS)
	**GN20-2531		FILE MAINTENANCE STATUS TRANSACTIONS - PROCESS AND QUOTE
			TERMINATIONS, SYSTEM MANUAL
			(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0660-0	GN20-2090	GN20-2170	ADVANCED LIFE INFORMATION SYSTEM (DOS)
	GN20-2532		FILE MAINTENANCE STATUS TRANSACTIONS - PROCESS AND QUOTE
			MISCELLANEOUS, LOAN VALUES, AND PARTICIPATION VALUES,
			SYSTEM MANUAL
			(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0661-0	GN20-2171	**GN20-2566	ADVANCED LIFE INFORMATION SYSTEM (DOS)
			FILE MAINTENANCE BILLING TRANSACTIONS SYSTEM MANUAL
			(PROGRAM NUMBER: VERSION 1-360A-IL-09X VERSION 2 - 5736-N11)
GH20-0662-0	GN20-2104	GN20-2183	ADVANCED LIFE INFORMATION SYSTEM (DOS)
	GN20-2533		FILE MAINTENANCE PREMIUM DUE, OVERDUE, AND ANNIVERSARY
			PROCESSING TRANSACTIONS, SYSTEM MANUAL
			(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0663-0	GN20-2089		ADVANCED LIFE INFORMATION SYSTEM (DOS)
			FILE MAINTENANCE RATE FILE EXTRACT AND ANNIVERSARY EXTRACT
			UPDATE TRANSACTIONS, SYSTEM MANUAL
			PROGRAM NUMBERS 360A-IL-09X AND 5736-N11
GH20-0664-0	GN20-2088	GN20-2184	ADVANCED LIFE INFORMATION SYSTEM (DOS)
	**GN20-2534		FILE MAINTENANCE CONTRACTUAL CHANGES AND NOTIFICATIONS,
			SYSTEM MANUAL
			(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0665-0	GN20-2138	GN20-2087	ADVANCED LIFE INFORMATION SYSTEM (DOS)
	GN20-2185	GN20-2535	OUTPUT ANALYSIS, SYSTEM MANUAL
			(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0666-0	GN20-2186		ADVANCED LIFE INFORMATION SYSTEM (DOS)
			TRANSACTION REGISTER, SYSTEM MANUAL
			(PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0667-0	GN20-2113	GN20-2172	ADVANCED LIFE INFORMATION SYSTEM STATUS PRINT, SYSTEM MANUAL
	GN20-2536		(PROGRAM NUMBER: VERSION 1-360A-IL-09X VERSION 2 - 5736-N11)
GH20-0668-1#			ADVANCED LIFE INFORMATION SYSTEM (DOS)
GH20-0668-0#	GN20-2086		POLICY ACCOUNTING JOURNAL, SYSTEM MANUAL
			PROGRAM NUMBERS 360A-IL-09X AND 5736-N11

GH20-0669-0	GN20-2085		ADVANCED LIFE INFORMATION SYSTEM (DOS) ACCOUNTING CONTROL, SYSTEM MANUAL PROGRAM NUMBERS 360A-IL-09X AND 5736-N11
GH20-0670-1# GH20-0670-0#			ADVANCED LIFE INFORMATION SYSTEM (DOS) ERROR REGISTER, SYSTEM MANUAL PROGRAM NUMBERS 360A-IL-09X AND 5736-N11
GH20-0671-0	GN20-2136	GN20-2083	ADVANCED LIFE INFORMATION SYSTEM (DOS) RATE FILE, SYSTEM MANUAL PROGRAM NUMBERS 360A-IL-09X AND 5736-N11
GH20-0672-0	GN20-2082	GN20-2187	ADVANCED LIFE INFORMATION SYSTEM (DOS) HOME OFFICE INQUIRY PROGRAM SYSTEM MANUAL (PROGRAM NUMBERS: VERSION 1-360A-IL-09X VERSION 2-5736-N11)
GH20-0673-4			CALL/360-OS SYSTEM DESCRIPTION MANUAL, PROGRAM NUMBER 360A-CX-42X
SH20-0675-2			SYSTEM/360 POWER SYSTEM PLANNING FOR THE ELECTRIC UTILITY INDUSTRY (OS) (5736-U12)
SH20-0676-4			SYSTEM/360 POWER SYSTEM PLANNING FOR THE ELECTRIC UTILITY INDUSTRY (OS) (5736-U12), OPERATIONS MANUAL
SH20-0677-0	SN20-2199		PROJECT MANAGEMENT SYSTEM/360 VERSION 3 PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER 5734-XP1
**GH20-0678-0			GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (GATD) PROGRAM DESCRIPTION MANUAL - PROGRAM NUMBER 5734-XX2
SH20-0679-0			GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (GATD) OPERATIONS MANUAL - PROGRAM NUMBER 5734-XX2
SH20-0680-0			GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (GATD) TERMINAL OPERATIONS MANUAL
GH20-0683-1# GH20-0683-0# SH20-0684-0	GN20-2114		APL/360 USER'S MANUAL PROGRAM NUMBERS 5734-XM1 AND 5736-XM1 APL/360 OS OPERATIONS AND INSTALLATION MANUAL PROGRAM NUMBER 5734-XM1
SH20-0685-0			APL/360 OPERATIONS MANUAL PROGRAM NUMBER 5736-XM1
SH20-0686-0			APL/360-DOS SYSTEM GENERATION MANUAL PROGRAM NUMBER 5736-XM1
GH20-0689-2# GH20-0689-1# GH20-0689-0# GH20-0690-0	GN20-2124		APL/360 PRIMER - PROGRAM NUMBERS 5734-XM1 AND 5736-XM1
**GH20-0691-0			PROJECT MANAGEMENT SYSTEM/360 VERSION 3 APPLICATION DESCRIPTION MANUAL - PROGRAM NUMBER 5734-XP1
SH20-0692-0	SN20-2403		GENERAL PURPOSE SIMULATION SYSTEM/360 VERSION 2 APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5734-XS1
SH20-0693-0	SN20-2119 SN20-2435	SN20-2243	GENERAL PURPOSE SIMULATION SYSTEM/360 OS VERSION 2 OPERATOR'S MANUAL - PROGRAM NUMBER 5734-XS1
SH20-0694-1			GENERAL PURPOSE SIMULATION SYSTEM/360 OS VERSION 2 INTRODUCTORY USER'S MANUAL PROGRAM NUMBER 5734-XS1
SH20-0695-0	SN20-2574		GENERAL PURPOSE SIMULATION SYSTEM/360 OS AND DOS VERSION 2 USER'S MANUAL PROGRAM NUMBERS 5734-XS1 AND 5736-XS1
SH20-0696-0	GN20-2231		LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM (LEMNAS) PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-G21
GH20-0697-0			LAW ENFORCEMENT RESOURCE ALLOCATION SYSTEM (LEMNAS) OPERATIONS MANUAL (5736-G21)
SH20-0698-0	SN20-2414		MEDICAL INFORMATION SYSTEM PROGRAMS (MISP) PROGRAMMER'S MANUAL - PROGRAM NUMBER 360A-UH-08L
GH20-0699-2			GENERAL PURPOSE SIMULATION SYSTEM/360 DOS VERSION 2 OPERATION MANUAL - PROGRAM NUMBER 5736-XS1
GH20-0700-2 GH20-0709-0			CALL/360-OS BASIC LANGUAGE REFERENCE MANUAL (PROGRAM NUMBER 360A-CX-42X)
GH20-0710-2			CALL/360-OS PL/I LANGUAGE REFERENCE MANUAL SHARED LABORATORY INFORMATION SYSTEM (SLIS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-H12
SH20-0711-0			CALL 360/-OS FORTRAN LANGUAGE REFERENCE MANUAL PROGRAM NUMBER 360A-CX-42X
SH20-0712-0			SYSTEM/360 TEXT PROCESSOR - EDIT/360 OPERATIONS MANUAL PROGRAM NUMBER 5736-K11
GH20-0719-1	GN20-2458		SYSTEM/360 TEXT PROCESSOR - EDIT/360 PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-K11
GH20-0720-0	GN20-2255	GN20-2410	360 DOS POWER II APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 360D-05.2.006
GH20-0721-2			COURSEWRITER III FOR SYSTEM/360 VERSION 2 OPERATOR'S GUIDE PROGRAM NUMBER 360A-UX-01X
GH20-0722-4			SYSTEM/360 CONSUMER GOODS SYSTEM (COGS) ALLOCATION (DOS) (OS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS (DOS) 5736-D31, (OS) 5734-D32
GH20-0723-0	GN20-2198		SYSTEM/360 CONSUMER GOODS SYSTEM (COGS) FORECASTING (DOS) (OS) - APPLICATION DESCRIPTION MANUAL - PROGRAM NUMBER DOS 5736-D32, OS 5734-D33
SH20-0726-0			DATA/360-DOS APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-XS2
SH20-0727-0	SN20-2197		SYSTEM/360 ORDER ALLOCATION SYSTEM PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-D41
**SH20-0728-0	**SN20-2247		DATA/360-DOS CONSOLE OPERATOR'S GUIDE PRELIMINARY VERSION PROGRAM NUMBER 5736-XS2
SH20-0729-0	SN20-2196		ORDER ALLOCATION SYSTEM OPERATIONS MANUAL PROGRAM NUMBER 5736-D41
GH20-0730-0			DATA/360-DOS TERMINAL OPERATOR'S GUIDE PRELIMINARY VERSION (PROGRAM NO. 5736-XS2)
GH20-0735-0			TARIFF PUBLISHING SYSTEM (BOUND TARIFFS) TRAFFIC PROFILE ANALYSIS SYSTEM (POINT-TO-POINT TARIFF ITEM SELECTION) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS 5736-T21, 5736-T22
SH20-0736-0	SN20-2217	SN20-2423	COURSEWRITER III FOR SYSTEM/360 (OS AND DOS) VERSION 2 APPLICATION DESCRIPTION MANUAL (5734-E12)
GH20-0737-2			SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) SYSTEM/360 GENERALIZED INFORMATION SYSTEM PROGRAM DESCRIPTION MANUAL VOLUME III: PROCEDURAL LANGUAGE PROGRAM NUMBER 5736-CX1
GH20-0743-1			IBM SYSTEM/360 DOS POWER II PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER 360D-05.2.006
SH20-0744-1			IBM SYSTEM/360 DOS POWER II REMOTE JOB ENTRY PROGRAM APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 360D-05.2.006
GH20-0745-1# GH20-0745-0# GH20-0746-1# GH20-0746-0#	GN20-2234 GN20-2237		COURSEWRITER III FOR SYSTEM/360 (OS) VERSION 2 OPERATOR'S GUIDE PROGRAM NUMBER 5734-E12 SYSTEM/360 OS LEARN ADMINISTRATIVE TERMINAL SYSTEM APPLICATION DESCRIPTION MANUAL (PROGRAM NO. 5734-XX8)
			SYSTEM/360 DOS LEARN ADMINISTRATIVE TERMINAL SYSTEM APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-XX3

**GH20-0751-1			OS/360 REQUIREMENTS PLANNING - APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5734-M51
GH20-0752-1			OS/360 INVENTORY CONTROL APPLICATION DESCRIPTION MANUAL (5734-M52)
GH20-0753-2#			SYSTEM/360 SHOP FLOOR CONTROL APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-M31
GH20-0753-1#	GN20-2338		SYSTEM/360 SHOP FLOOR CONTROL DATA BASE MANUAL PROGRAM NUMBER 5736-M31
GH20-0754-1			CONVERSATIONAL PROGRAMMING SYSTEM (CPS) SYSTEM PROGRAMMER'S GUIDE
GH20-0757-0	GN20-2191		CONVERSATIONAL PROGRAMMING SYSTEM (CPS) TERMINAL USER'S MANUAL - PROGRAM NUMBER 360D-03.4-016
GH20-0758-1			CONVERSATIONAL PROGRAMMING SYSTEM (CPS) INSTALLATION AND ADMINISTRATION MANUAL
GH20-0759-1	GN20-2369	GN20-2549	DISK OPERATING SYSTEM/360 POWER II REMOTE JOB ENTRY PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER 360D-05.2.006
GH20-0761-1#			FINANCIAL TERMINAL SYSTEM APPLICATION DESCRIPTION PTS/360 PROGRAM NUMBER 5736-F12
GH20-0761-0#			SYSTEM/360 AGRIBUSINESS MANAGEMENT INFORMATION SYSTEM APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-D51
GH20-0763-1			INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360 (SYSTEM DESCRIPTION) APPLICATION DESCRIPTION MANUAL (VERSION 2) PROGRAM NUMBER 5734-XX6
GH20-0764-1			IBM SYSTEM/360 OS LEARN ADMINISTRATIVE TERMINAL SYSTEM PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-XX8
**GH20-0765-2#			IBM SYSTEM/360 DOS LEARN ADMINISTRATIVE TERMINAL SYSTEM PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-XX3
GH20-0765-1#			IBM SYSTEM/360 LEARN ATS WORKBOOK PROGRAM NUMBERS 5734-XX8, 5736-XX3
SH20-0766-0	SN20-2235		SHARED LABORATORY INFORMATION SYSTEM (SLIS) LABORATORY MANUAL PROGRAM NUMBER 5736-H12
SH20-0767-0	SN20-2236		SYSTEM/360 DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-XX4
SH20-0768-2#			CLINICAL LABORATORY MANAGEMENT SYSTEM (CLMS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5718-H12
SH20-0768-1#			SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM APPLICATION DESCRIPTION MANUAL, PROGRAM NUMBER 5736-F32
SH20-0769-0	SN20-2572		OS/360 INVENTORY CONTROL PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-M52
GH20-0771-1			OS/360 REQUIREMENTS PLANNING PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-M51
GH20-0772-0	GN20-2330		OS/360 INVENTORY CONTROL OPERATIONS MANUAL PROGRAM NUMBER 5734-M52
GH20-0775-0	GN20-2442		SHARED LABORATORY INFORMATION SYSTEM (SLIS) 5736-H12 PROGRAM DESCRIPTION MANUAL
SH20-0776-0	SN20-2480		SHARED LABORATORY INFORMATION SYSTEM (SLIS) (5736-H12) OPERATIONS MANUAL
**SH20-0777-0	SN20-2289	SN20-2351	OS/360 REQUIREMENTS PLANNING PROGRAM PRODUCT 5734-M51 OPERATING MANUAL
SH20-0778-1	SN20-2490		CALL/360-OS EXECUTIVE AND UTILITIES PROGRAM DESCRIPTION MANUAL (PROGRAM NUMBER 360A-CX-42X)
SH20-0780-0			CALL/360-OS TERMINAL OPERATIONS MANUAL PROGRAM NUMBER 360A-CX-42X
SH20-0781-0			CALL/360-OS OPERATOR'S MANUAL PROGRAM NUMBER 360A-CX-42X
**SH20-0782-1			BROKERAGE ACCOUNTING SYSTEM ELEMENTS (BASE) VERSION 2 APPLICATION DESCRIPTION - PROGRAM NUMBER 5736-F31
GH20-0786-3			SYSTEM/360 REQUIREMENTS PLANNING INTERFACE 5736-M13 PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-M13
GH20-0787-2			SYSTEM/360 REQUIREMENTS PLANNING INTERFACE (5736-M13) OPERATIONS MANUAL
GH20-0788-2			TARIFF PUBLISHING SYSTEM (BOUND TARIFFS) FORMAT AND STANDARD CODES MANUAL PROGRAM NUMBER 5736-T21
GH20-0789-2#			SYSTEM/360 CAPACITY PLANNING OPERATIONS MANUAL PROGRAM PRODUCT 5736-M11, PROGRAM PRODUCT 5736-M12
GH20-0789-1#			SYSTEM/360 CAPACITY PLANNING - INFINITE LOADING SYSTEM/360 CAPACITY PLANNING - FINITE LOADING PROGRAM DESCRIPTION MANUAL
SH20-0790-0			PROGRAM NUMBERS 5736-M11, 5736-M12
SH20-0791-0			TARIFF PUBLISHING SYSTEM (BOUND TARIFFS) DATA PREPARATION MANUAL 5736-T21
SH20-0792-0	SN20-2272	SN20-2327	CONTROL PROGRAM-67 / CAMBRIDGE MONITOR SYSTEM (CP-67/CMS) SYSTEM DESCRIPTION MANUAL - PROGRAM NUMBER 360D-05.2.005
SH20-0795-0			CONSUMER GOODS SYSTEM (COGS) FORECASTING (DOS) (OS) OPERATIONS MANUAL, PROGRAM NUMBERS DOS 5736-D32, OS 5734-D33
SH20-0796-1			SYSTEM/360 CONSUMER GOODS SYSTEM (COGS) FORECASTING PROGRAM DESCRIPTION MANUAL (PROGRAM NUMBER 5736-D32)
SH20-0798-1			MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) PROGRAM 5736-H11 OPERATIONS MANUAL
GH20-0802-2	GN20-2500		MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) VERSION 2 APPLICATION DESCRIPTION MANUAL, PROGRAM NUMBER 5736-H11
SH20-0803-3			MEDICAL INFORMATION SYSTEM PROGRAM (MISP) 5736-H11 SYSTEM- PROGRAM PRODUCT INSTALLATION MANUAL
SH20-0804-2			MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) 5736-H11 PROGRAM DESCRIPTION MANUAL
SH20-0805-0	SN20-2283		MEDICAL INFORMATION SYSTEM PROGRAM (MISP) 5736-H11 PROGRAMMER'S MANUAL
GH20-0806-0			IBM SYSTEM/360 FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - LOW CORE (FASTER LC) APPLICATION DESCRIPTION - PROGRAM NUMBER 5736-G22
SH20-0807-0			TRAFFIC PROFILE ANALYSIS SYSTEM 5736-T22, PROGRAM DESCRIPTION AND OPERATION MANUAL
**SH20-0808-0			TARIFF PUBLISHING SYSTEM (BOUND TARIFFS) PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER 5736-T21
**SH20-0809-0			CFO AUTOCODER TO ASSEMBLER LANGUAGE INSTRUCTION SET TRANSLATOR (CATALIST) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5736-XX2
GH20-0810-0	GN20-2299	GN20-2482	CFO AUTOCODER TO ASSEMBLER LANGUAGE INSTRUCTION SET TRANSLATOR (CATALIST) PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER 5736-XX2
SH20-0811-0			MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) VERSION TWO - APPLICATION FILE DESCRIPTION MANUAL PROGRAM NUMBER 5736-H11
SH20-0812-1			CONSUMER GOODS SYSTEM (COGS) ALLOCATION (DOS) (OS) OPERATIONS MANUAL, PROGRAM NUMBERS DOS-5736-D31, OS-5734-D32
**GH20-0813-0			CONSUMER GOODS SYSTEM (COGS) ALLOCATION (DOS) (OS) PROGRAM DESCRIPTION, PROGRAM NUMBERS DOS 5736-D31, OS 5734-D32
SH20-0814-1			IBM CLINICAL LABORATORY MANAGEMENT SYSTEM (CLMS) 5718-H12 PROGRAM DESCRIPTION MANUAL
SH20-0815-0			INTRODUCTION TO THE REAL-TIME MONITOR GENERAL PURPOSE SIMULATION SYSTEM V (OS) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5734-XS2
SH20-0820-2#			
SH20-0820-1#	SN20-2371		
SH20-0821-2			
SH20-0823-0			
GH20-0824-0	GN20-2315		
GH20-0825-0			

GH20-0826-0			GENERAL PURPOSE SIMULATION SYSTEM V (DOS)
**SH20-0827-1			APPLICATION DESCRIPTION MANUAL, PROGRAM NUMBER 5736-XS3
SH20-0828-1	**SN20-2752		SYSTEM/360 SHOP FLOOR CONTROL 5736-M31 OPERATOR'S MANUAL
			SHOP FLOOR CONTROL, PROGRAM NUMBERS 5736-M31 (DOS),
			5734-M31 (OS) - PROGRAM DESCRIPTION MANUAL
SH20-0829-1			SYSTEM/360 DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR
SH20-0830-1			5736-XX4 PROGRAM DESCRIPTION MANUAL
SH20-0831-0			SYSTEM/360 DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR
			5736-XX4 OPERATIONS MANUAL
GH20-0832-0			CLINICAL LABORATORY MANAGEMENT SYSTEM (CLMS) 5718-H12
			OPERATIONS MANUAL
			SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM WITH
			DISK OPERATING SYSTEM (RAX-DOS)
			PROGRAM NUMBER 5799-AAA
SH20-0833-1	SN20-2372		SYSTEM/360 TEXT PROCESSOR - PAGINATION/360
			PROGRAM DESCRIPTION VOLUME 1
			PROGRAM NUMBER 5736-K12
SH20-0834-1#	SN20-2373		SYSTEM/360 TELE PROCESSOR - PAGINATION/360
SH20-0834-0#			PROGRAM DESCRIPTION VOLUME 2 - PROGRAM NUMBER 5736-K12
SH20-0835-1#	SN20-2374		SYSTEM/360 TELEPROCESSOR - PAGINATION/360
SH20-0835-0#			PROCESS DESCRIPTION VOLUME 3
			PROGRAM NUMBER 5736-K12
SH20-0836-2			SYSTEM/360 TELEPROCESSOR - PAGINATION/360
			OPERATIONS MANUAL PROGRAM NUMBER 5736-K12
SH20-0837-0			SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM WITH DISK
			OPERATING SYSTEM (RAX-DOS) PROGRAM DESCRIPTION MANUAL
			PROGRAM NUMBER 5799-AAA
GH20-0838-0	GN20-2479		INTRODUCTION TO DATA/360 - DOS
			PROGRAM NUMBER 5736-XS2
GH20-0841-2#			DISPLAY MANAGEMENT SYSTEM APPLICATION DESCRIPTION
GH20-0841-1#	GN20-2363		PROGRAM NUMBER 5734-XC1
SH20-0843-0			SYSTEM/360 REMOTE ACCESS COMPUTING WITH DISK OPERATING
			SYSTEM (RAX-DOS) OPERATIONS MANUAL
			PROGRAM NUMBER 5799-AAA
GH20-0844-0			MANAGEMENT INFORMATION SYSTEM FOR PUBLIC UTILITIES
			WITH THE IBM SYSTEM/370
**SH20-0846-0			SYSTEM/360 AGRIBUSINESS MANAGEMENT INFORMATION SYSTEM
			PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-D51
**SH20-0847-0			SYSTEM/360 AGRIBUSINESS MANAGEMENT INFORMATION SYSTEM
			OPERATIONS MANUAL PROGRAM NUMBER 5736-D51
**GH20-0849-2			INTRODUCTION TO MATHEMATICAL PROGRAMMING SYSTEM EXTENDED
			(MPSX) - PROGRAM PRODUCT MANUAL - PROGRAM NUMBER 5734-XM4
GH20-0850-1#			APL/360 - OS (5734-XM6) AND APL/360 - DOS (5736-XM6)
GH20-0850-0#			
SH20-0851-1	SN20-2471		GENERAL PURPOSE SIMULATION SYSTEM V USER'S MANUAL,
			PROGRAM NUMBER 5734-XS2
GH20-0852-2			INTRODUCTION TO MINIPERT
			PROGRAM NUMBER 5734-XP3
GH20-0853-0			DATA/360-OS - PROGRAM NUMBER 5734-XS3
GH20-0854-1			PROCEDURE LIBRARY-MATHEMATICS (PL-MATH)
			GENERAL INFORMATION MANUAL,
			PROGRAM NUMBER 5734-XM3
GH20-0855-1			INTRODUCTION TO PROJECT MANAGEMENT SYSTEM IV. (PMSIV),
			PROGRAM PRODUCT MANUAL - PROGRAM NUMBER 5734-XP4
GH20-0856-1	GN20-2499		CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM
			(CP-67/CMS) VERSION 3 OPERATOR'S GUIDE
GH20-0857-1	GN20-2501		CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM
			(CP-67/CMS) VERSION 3 INSTALLATION GUIDE
GH20-0858-1	GN20-2497		CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM (CP-67/CMS)
			HARDWARE MAINTAINABILITY GUIDE
			PROGRAM NUMBER 360D-05.2.005
**GH20-0859-2			CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM
			(CP-67/CMS) VERSION 3 USER'S GUIDE
GH20-0860-0			CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM
			(CP-67/CMS) VERSION 3 CMS SCRIPT USER'S MANUAL
SH20-0863-0	SN20-2265	SN20-2298	IBM SYSTEM/360 FILING AND SOURCE DATA ENTRY TECHNIQUES
	SN20-2466	SN20-2481	FOR EASIER RETRIEVAL-LOW CORE (FASTER LC)
			5736-G22 PROGRAM DESCRIPTION MANUAL
SH20-0864-0	SN20-2297	SN20-2465	SYSTEM/360 FILING AND SOURCE DATA ENTRY TECHNIQUES
	SN20-2483		FOR EASIER RETRIEVAL-LOW CORE (FASTER LC)
			5736-G22 OPERATIONS MANUAL
SH20-0866-1	SN20-2473		GENERAL PURPOSE SIMULATION SYSTEM V,
			INTRODUCTORY USER'S MANUAL,
			PROGRAM NUMBERS 5734-XS2 AND 5736-XS3
SH20-0867-1	SN20-2472		GENERAL PURPOSE SIMULATING SYSTEM V-OS
			(GPSS V-OS) OPERATIONS MANUAL PROGRAM NUMBER 5734-XS2
SH20-0868-1			GENERAL PURPOSE SIMULATION SYSTEM V - DOS (GPSS V - DOS)
			OPERATIONS MANUAL, PROGRAM NUMBER 5736-XS3
SH20-0870-0			SYSTEM/360 FINANCIAL TERMINAL SYSTEM,
			PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 5736-F12
SH20-0871-0			SYSTEM/360 FINANCIAL TERMINAL SYSTEM, OPERATIONS MANUAL,
			PROGRAM NUMBER 5736-F12
SH20-0872-0			SYSTEM/360 FINANCIAL TERMINAL SYSTEM, PROGRAMMER'S MANUAL,
			PROGRAM NUMBER 5736-F12
GH20-0873-1			FARE QUOTE/TICKETING APPLICATION DESCRIPTION MANUAL
GH20-0874-1#			COMPUTER SYSTEM SIMULATOR II (CSS II)
GH20-0874-0#	GN20-2325		GENERAL INFORMATION MANUAL, PROGRAM NUMBER 5734-XS5
SH20-0875-1	SN20-2413		COMPUTER SYSTEM SIMULATOR II (CSS II)
			PROGRAM DESCRIPTION AND OPERATIONS MANUAL
			PROGRAM NUMBER 5734-XS5,
GH20-0876-0			THE REAL-TIME MONITOR (RTM) PROGRAM DESCRIPTION MANUAL,
			PROGRAM NUMBER 360A-SV-001
GH20-0877-0			The REAL-TIME MONITOR (RTM), PROGRAM NUMBER 360A-SV-001
			OPERATIONS AND PROGRAMMER'S GUIDE
SH20-0879-0	SN20-2399	SN20-2478	DATA/360 - DOS CONSOLE OPERATOR'S GUIDE
			PROGRAM NUMBER 5736-XS2
GH20-0883-1			CONSOLIDATED FUNCTIONS ORDINARY II (CFO II) SYSTEM,
			APPLICATION DESCRIPTION, PROGRAM NUMBER 5736-N13
SH20-0885-1			DATA/360 - DOS TERMINAL OPERATOR'S GUIDE
			PROGRAM NUMBER 5736-XS2
GH20-0888-0	GN20-2392		BASIC COURTS SYSTEM (BCS) APPLICATION DESCRIPTION MANUAL,
			PROGRAM NUMBER 5736-G26
SH20-0890-0			APL/360 - OS OPERATIONS AND INSTALLATION MANUAL,
			PROGRAM NUMBER 5734-XM6
GH20-0892-0	GN20-2393	GN20-2397	IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2)
			APPLICATION DESCRIPTION MANUAL, PROGRAM NUMBER 5734-XX2
SH20-0893-1#			SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM
SH20-0893-0#			OPERATIONS MANUAL, PROGRAM NUMBER 5736-F32
SH20-0894-0	SN20-2441		SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM
			TERMINAL OPERATOR'S MANUAL PROGRAM NUMBER 5736-F32
SH20-0895-0	SN20-2447		SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM
			PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 5736-F32
GH20-0896-0			FORTRAN CONVERSION AID PROGRAM, GENERAL INFORMATION MANUAL
			PROGRAM NUMBER 5799-AAJ, REFERENCE NUMBER FA1287
SH20-0897-0			FORTRAN CONVERSION AID PROGRAM,
			PROGRAM DESCRIPTION AND OPERATIONS MANUAL,
			PROGRAM NUMBER 5799-AAJ, REFERENCE NUMBER FA1287

SH20-0898-0	**SN20-2760		PMS IV, COST PROCESSOR, PROGRAM DESCRIPTION AND OPERATIONS PROGRAM PRODUCT MANUAL - PROGRAM NUMBER 5734-XP4
**SH20-0899-1			PMS IV, NETWORK PROCESSOR, PROGRAM DESCRIPTION AND OPERATIONS MANUAL, PROGRAM NUMBER 5734-XP4
SH20-0900-0			PROJECT MANAGEMENT SYSTEM IV (PMSIV) RESOURCE ALLOCATION PROCESSOR, PROGRAM DESCRIPTION/ OPERATIONS MANUAL - PROGRAM NUMBER 5734-XP4
**SH20-0901-1			PROJECT MANAGEMENT SYSTEM IV (PMS IV) REPORT PROCESSOR PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5734-XP4
GH20-0903-0	GN20-2404		IBM DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD (DOS FASTER MT) APPLICATION DESCRIPTION, PROGRAM NUMBER 5736-G24
GH20-0906-0			APL/360-OS (5734-XM6), APL/360-DOS (5736-XM6), USER'S MANUAL
SH20-0908-0			MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) MIXED INTEGER PROGRAMMING (MIP) PROGRAM DESCRIPTION MANUAL
SH20-0909-0			DISPLAY MANAGEMENT SYSTEM PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-XC1
**SH20-0910-2			INFORMATION MANAGEMENT SYSTEM/360, VERSION 2 SYSTEM/APPLICATION DESIGN GUIDE PROGRAM NUMBER 5734-XX6
**SH20-0911-2			INFORMATION MANAGEMENT SYSTEM/360, VERSION 2 SYSTEM PROGRAMMING REFERENCE MANUAL PROGRAM NUMBER 5734-XX6
**SH20-0912-2			INFORMATION MANAGEMENT SYSTEM/360, VERSION 2 APPLICATION PROGRAMMING REFERENCE MANUAL PROGRAM NUMBER 5734-XX6
**SH20-0913-2			INFORMATION MANAGEMENT SYSTEM/360, VERSION 2, OPERATOR'S REFERENCE MANUAL PROGRAM NUMBER 5734-XX6
**SH20-0914-2			INFORMATION MANAGEMENT SYSTEM/360, VERSION 2, MESSAGES AND CODES REFERENCE MANUAL, PROGRAM NUMBER 5734-XX6
**SH20-0915-1			INFORMATION MANAGEMENT SYSTEM/360 VERSION 2 PROGRAM NUMBER 5734-XX6
SH20-0919-0			DISPLAY MANAGEMENT SYSTEM OPERATOR'S MANUAL PROGRAM NUMBER 5734-XC1
GH20-0920-0			CONTROL PROGRAM-67 ONLINE COBOL SYMBOLIC DEBUG PROGRAM NUMBER 5799-AAE - APPLICATION DESCRIPTION MANUAL
SH20-0921-0			CONTROL PROGRAM - 67 ONLINE COBOL SYMBOLIC DEBUG USER'S GUIDE - PROGRAM NUMBER 5799-AAE
SH20-0922-0			CONTROL PROGRAM - 67 ONLINE COBOL SYMBOLIC DEBUG INSTALLATION MANUAL, PROGRAM NUMBER 5799-AAE
SH20-0923-0			CONTROL PROGRAM - 67 ONLINE COBOL SYMBOLIC DEBUG OPERATING SYSTEM/360 IN A VIRTUAL MACHINE, PROGRAM NUMBER 5799-AAE
SH20-0924-0	SN20-2438		MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX), OPERATIONS MANUAL - PROGRAM NUMBER 5734-XM4
SH20-0925-0			DATA/360-OS TERMINAL OPERATOR'S GUIDE, PROGRAM NUMBER 5734-XS3
SH20-0926-1	**SN20-2778		DATA/360-OS CONSOLE OPERATOR'S GUIDE, PROGRAM NUMBER 5734-XS3
SH20-0932-0			MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) CONTROL LANGUAGE USER'S MANUAL, PROGRAM NUMBER 5734-XM4
GH20-0935-1			IBM FASHION REPORTER, APPLICATION DESCRIPTION MANUAL, PROGRAM PRODUCT - PROGRAM NUMBER 5736-D11 DISTRIBUTION RETAIL 5736-D11
SH20-0936-1			CONSOLIDATED FUNCTIONS ORDINARY II (CFO II) SYSTEM PROGRAM DESCRIPTION MANUAL - VOLUME III - MISCELLANEOUS PROGRAM DATA - PROGRAM NUMBER 5736-N13
SH20-0937-1			CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII) MISCELLANEOUS PROGRAM DATA, PROGRAM DESCRIPTION MANUAL VOLUME III - PROGRAM NUMBER 5736-N13
SH20-0938-0			APL/360 - DOS OPERATIONS AND INSTALLATION MANUAL, PROGRAM NUMBER 5736-XM6
SH20-0959-0			MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) MESSAGE MANUAL, PROGRAM NUMBER 5734-XM4
SH20-0960-0			MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) READ COMMUNICATIONS FORMAT (READCOMM) PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 5734-XM4
GH20-0961-1*			BILL PROCESSOR SYSTEMS - IHS/360 BRIDGE
GH20-0961-0*			APPLICATION DESCRIPTION MANUAL, PROGRAM NUMBER 5734-XX9
SH20-0963-0	SN20-2437	SN20-2792	BASIC COURTS SYSTEM - PROGRAM PRODUCT DESCRIPTION MANUAL PROGRAM PRODUCT 5736-G26
SH20-0964-0	SN20-2436		BASIC COURTS SYSTEM PROGRAM PRODUCT OPERATIONS MANUAL PROGRAM NUMBER 5736-G26
GH20-0967-0	GN20-2366		SYSTEM DESCRIPTION MANUAL FOR OS/MVT WITH RESOURCE SECURITY - PROGRAM NUMBER 360A-SV-007
SH20-0968-0	SN20-2415	SN20-2422	MPSX LINEAR AND SEPARABLE PROGRAMMING, PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 5734-XM4
GH20-0970-1	GN20-2459		BIBLIOGRAPHY OF APPLICATION PUBLICATIONS MEDICAL INDUSTRIES
**SH20-0978-0			OS CAPACITY PLANNING - INFINITE LOADING, OS CAPACITY PLANNING - FINITE LOADING, OPERATIONS MANUAL PROGRAM NUMBERS 5734-M53 AND 5734-M54
SH20-0979-1			FARE QUOTE/ISSUE TICKET USER'S GUIDE PROGRAM NUMBER 5736-T11
SH20-0980-0			TARIFF MAINTENANCE USER'S GUIDE, PROGRAM NUMBER 5736-T11
SH20-0981-1			FARE QUOTE/TICKETING SYSTEM IMPLEMENTATION GUIDE, PROGRAM NUMBER 5736-T11
SH20-0982-1			TARIFF MAINTENANCE OPERATOR'S GUIDE, PROGRAM NUMBER 5736-T11
GH20-0983-1			ELECTRONIC CIRCUIT ANALYSIS PROGRAM II (ECAP II) FOR SYSTEM/360 AND 1130 COMPUTING SYSTEM APPLICATION DESCRIPTION MANUAL
SH20-0985-0	SN20-2443		PROCEDURE LIBRARY - MATHEMATICS (PL-MATH) PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 5734-XM3
SH20-0986-0			OS SHOP FLOOR CONTROL OPERATIONS MANUAL PROGRAM NUMBER 5734-M31
GH20-0987-2			COURSEWRITER III, VERSION 3 APPLICATION DESCRIPTION MANUAL PROGRAM NUMBERS 5734-E13, 5736-E11
**SH20-0988-0	**SN20-2446		PROCEDURE LIBRARY - MATHEMATICS (PL-MATH) OPERATIONS MANUAL, PROGRAM NUMBER 5734-XM3
**SH20-0995-0			MINIPERT PROGRAM DESCRIPTION AND OPERATIONS MANUAL PROGRAM NUMBER 5734-XP3
SH20-0997-0	SN20-2440		BROKERAGE ACCOUNTING SYSTEM ELEMENTS (BASE) VERSION 2 PROGRAM DESCRIPTION MANUAL VOLUME 1: NARRATIVE PROGRAM NUMBER 5736-F31
SH20-0998-0	SN20-2439		BROKERAGE ACCOUNTING SYSTEM ELEMENTS (BASE) VERSION 2 PROGRAM NUMBER 5736-F31
SH20-0999-0	SN20-2449		BROKERAGE ACCOUNTING SYSTEM ELEMENTS (BASE) VERSION 2 PROGRAM PRODUCT MANUAL - PROGRAM NUMBER 5736-F31
GH20-1002-0			BUDGET ACCOUNTING INFORMATION SYSTEM (BACIS) FOR PUBLIC INSTITUTIONS - GENERAL INFORMATION MANUAL PROGRAM NUMBER 5736-G25

SH20-1007-1			INFORMATION MANAGEMENT SYSTEM/360 VERSION 2 MASTER INDEX PROGRAM NUMBER 5734-XX6
**GH20-1008-0			CHECK PROCESSING CONTROL SYSTEM (CPCS) GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5734-F11
SH20-1009-0	SN20-2561	SN20-2577	COURSEWRITER III, VERSION 3 AUTHOR'S GUIDE - OPERATING SYSTEM AND DISK OPERATING SYSTEM PROGRAM NUMBERS 5734-E13, 5736-E11
SH20-1010-1	SN20-2562	SN20-2579	COURSEWRITER III, VERSION 3 STUDENT/MONITOR USER'S GUIDE OPERATING SYSTEM AND DISK OPERATING SYSTEM PROGRAM NUMBERS 5734-E13, 5736-E11
**SH20-1011-1			COURSEWRITER III, VERSION 3 SUPERVISOR'S GUIDE OPERATING SYSTEM AND DISK OPERATING SYSTEM PROGRAM NUMBERS 5734-E13, 5736-E11
SH20-1012-0			COURSEWRITER III, VERSION 3 OPERATOR'S GUIDE DISK OPERATING SYSTEM - PROGRAM NUMBERS 5736-E11
SH20-1015-0			ELECTRONIC CIRCUIT ANALYSIS PROGRAM II (ECAP II) FOR THE IBM OPERATING SYSTEM AND 1130 COMPUTING SYSTEM PROGRAM DESCRIPTION MANUAL - PROGRAM NUMBERS 5734-EE1, 5711-EE1
SH20-1016-0			CONSOLIDATED FUNCTIONS ORDINARY II SYSTEM (CFOII) OPERATIONS MANUAL - PROGRAM NUMBER 5736-N13
SH20-1017-1			CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOII) UTILITY PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5736-N13
GH20-1021-0+			OS/HVT WITH RESOURCE SECURITY INSTALLATION AND SYSTEM PROGRAMMERS GUIDE - PROGRAM NUMBER 360A-SV-007
**SH20-1022-1			COURSEWRITER III/OS VERSION 3 - OPERATOR'S GUIDE PROGRAM NUMBER 5734-E13
SH20-1024-0			CONSOLIDATED FUNCTIONS ORDINARY II (CFO II) PROGRAM DESCRIPTION MANUAL - VOLUME I PROCESSING DESCRIPTION - PROGRAM NUMBER 5736-N13
SH20-1025-0			ELECTRONIC CIRCUIT ANALYSIS PROGRAM II (ECAP II) FOR THE IBM OPERATING SYSTEM - OPERATIONS MANUAL PROGRAM NUMBER 5734-EE1
GH20-1027-1			STAT/BASIC FOR SYSTEM/3 AND ITP - GENERAL INFORMATION MANUAL PROGRAM NUMBERS 5703-XA1, 5734-XA3
**GH20-1028-2	**GN20-2800		CUSTOMER INFORMATION CONTROL SYSTEM (CICS) DOS-ENTRY (CICS/DOSE) DOS-STANDARD (CICS/DOSS) OS-STANDARD V2 (CICS/OS) GENERAL INFORMATION MANUAL PROGRAM NUMBERS 5734-XX7, 5736-XX6, 5736-XX7
GH20-1029-0			CONTROL PROGRAM-67/CAMBRIDGE MONITOR SYSTEM (CP-67/CMS) VERSION 3 - PROGRAM MANUAL - PROGRAM NUMBER 3600-05.2.005
SH20-1030-0	**SN20-2751		IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) PROGRAM DESCRIPTION MANUAL, VOLUME 1: SYSTEM OVERVIEW AND CONTROL - PROGRAM PRODUCT MANUAL PROGRAM NUMBER 5734-XX1
GH20-1031-0	GN20-2485		IBM OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD (OS FASTER MT) GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5734-G21
SH20-1032-0	**SN20-2750		IBM GENERALIZED INFORMATION SYSTEM, VERSION 2 (GIS/2) OPERATIONS MANUAL - PROGRAM NUMBER 5734-XX1
SH20-1033-0	**SN20-2591		GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) VOLUME 3, PROCEDURAL LANGUAGE - PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-XX1
**SH20-1034-1			CUSTOMER INFORMATION CONTROL SYSTEM (CICS) OPERATIONS GUIDE - PROGRAM NUMBERS DOS-ENTRY 5736-XX6 DOS-STANDARD 5736-XX7
**GH20-1035-1			PLANNING SYSTEM GENERATOR II (PSGII) GENERAL INFORMATION MANUAL PROGRAM NUMBER 5734-XT1
GH20-1036-0			DATA/360 OS XI APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 5734-458
GH20-1037-0			DATA/360 DOS XI APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER - 5736-XS5
GH20-1038-0			TELECOMMUNICATIONS CONTROL SYSTEM (TCS) GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5734-F31
**GH20-1039-0+			SECURITIES ORDER MATCHING GENERAL INFORMATION MANUAL PROGRAM NUMBER 5734-F32
SH20-1040-0	SN20-2460	**SN20-2592	GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) VOLUME 2: DATA DESCRIPTION LANGUAGE - PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 5734-XX1
SH20-1041-0			PLANNING SYSTEMS GENERATOR II (PSG II) OPERATIONS MANUAL - PROGRAM NUMBER 5734-XT1
SH20-1042-0			PLANNING SYSTEMS GENERATOR II (PSG II) PROGRAM REFERENCE MANUAL - PROGRAM NUMBER 5734-XT1
**SH20-1043-3			CUSTOMER INFORMATION CONTROL SYSTEM (CICS) SYSTEM PROGRAMMER'S REFERENCE MANUAL PROGRAM NUMBERS DOS-ENTRY 5736-XX6, DOS-STANDARD 5736-XX7, OS-STANDARD 5734-XX7
**SH20-1044-1	**SN20-2801		CUSTOMER INFORMATION CONTROL SYSTEM (CICS) TERMINAL OPERATOR'S GUIDE - PROGRAM NUMBERS DOS-ENTRY 5736-XX6, DOS-STANDARD 5736-XX7, OS-STANDARD 5734-XX7
**SH20-1047-3			CUSTOMER INFORMATION CONTROL SYSTEM DOS - ENTRY (CIS DOS - STANDARD (CICS/DOSS) OS - STANDARD VERSION 2 (CICS/OS) APPLICATION PROGRAMMER'S REFERENCE MANUAL PROGRAM NUMBERS 5736-XX6, 5736-XX7, 5734-XX7
**SH20-1048-1	**SN20-2802		CUSTOMER INFORMATION CONTROL SYSTEM (CICS) OPERATING SYSTEM STANDARD VERSION 2 OPERATIONS GUIDE PROGRAM NUMBER 5734-XX7
SH20-1051-0			IBM DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD (DOS FASTER MT) PROGRAM DESCRIPTION PROGRAM NUMBER 5736-G24
SH20-1052-0			IBM DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD (DOS FASTER MT) OPERATIONS MANUAL - PROGRAM NUMBER 5736-G24
SH20-1053-0			IBM FASHION REPORTER, PROGRAM DESCRIPTION MANUAL, PROGRAM NUMBER 5736-D11
SH20-1054-0	SN20-2506		IBM FASHION REPORTER, OPERATIONS MANUAL PROGRAM NUMBER 5736-D11
GH20-1057-0+			OS/HVT WITH RESOURCE SECURITY, SECURITY OFFICER'S GUIDE PROGRAM NUMBER 360A-SV-007
GH20-1058-0+			RESOURCE SECURITY (FOR OS/HVT)-GENERAL INFORMATION AND PLANNING MANUAL, PROG. NO. 360A-SV-007
GH20-1066-0			PROBLEM LANGUAGE ANALYZER (PLAN) PROGRAM REFERENCE MANUAL PROGRAM NUMBERS 1130-CX-25X, 360A-CX-27X
SH20-1067-0			SYSTEM/360 OPERATING SYSTEM REQUIREMENTS PLANNING EXTENSIONS (PROGRAMMING BPO B86264) - PROGRAM DESCRIPTION AND OPERATIONS MANUAL - PROGRAM NUMBER 5799-AYY
SH20-1069-0			STAT/BASIC FOR SYSTEM/3 AND INTERACTIVE TERMINAL FACILITY PROGRAM REFERENCE - PROGRAM NUMBERS 5703-XA1, 5734-XA3
SH20-1070-0			STAT/BASIC FOR INTERACTIVE TERMINAL FACILITY OPERATIONS GUID PROGRAM NUMBER 5734-XA3
GH20-1074-0	GN20-2476		INTERACTIVE QUERY FACILITY (IQF) FOR IMS/360 VERSION 2 PROGRAM NUMBER 5734-XX6 - GENERAL INFORMATION MANUAL
SH20-1075-0			BILL PROCESSOR SYSTEMS - IMS/360 BRIDGE PROGRAM DESCRIPTION MANUAL - PROGRAM NUMBER 5734-XX9

SH20-1076-0	BILL PROCESSOR SYSTEMS - IMS/360 BRIDGE, OPERATIONS MANUAL - PROGRAM NUMBER 5734-KX9
SH20-1081-0	FARE QUOTE/TICKETING STUDENT STUDY GUIDE PROGRAM NUMBER 5736-T11
SH20-1089-0	AN APL TEXT EDITOR AND COMPOSER PROGRAM DESCRIPTION/OPERATIONS MANUAL - PROGRAM NUMBER 5796-PAC
SH20-1092-0	APL/PDTS PROGRAMMING DEVELOPMENT TRACKING SYSTEM - PDTS IUP - PROGRAM DESCRIPTION/OPERATIONS MANUAL PROGRAM NUMBER 5796-PAD
**SH20-1094-0	FLIGHT DATA DISPLAY SYSTEM INSTALLATION GUIDE PROGRAM NUMBER 5796-PAE
**SH20-1095-0	FLIGHT DATA DISPLAY SYSTEM OPERATORS MANUAL PROGRAM NUMBER 5796-PAE
**SH20-1096-0	FLIGHT DATA DISPLAY SYSTEM USERS GUIDE PROGRAM NUMBER 5796-PAE
**GH20-1128-1	MATH/BASIC FOR SYSTEM/3 AND INTERACTIVE TERMINAL FACILITY (ITF) GENERAL INFORMATION MANUAL - PROGRAM NUMBERS 5703-XM2, 5734-XM8
GH20-1129-0	EPIC SOCRATES STUDENT SCHEDULING SYSTEM FOR EDUCATIONAL INSTITUTIONS - PROGRAM PRODUCT GENERAL INFORMATION PROGRAM NUMBER 5735-E91
GH20-1134-0	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) GENERAL INFORMATION MANUAL - PROGRAM NUMBERS 5795-AAA (OS MESSAGE SWITCHING) 5795-AAB (OS EQUIPMENT CONTROL) 5795-AAC (DOS MESSAGE SWITCHING) 5795-AAD (DOS EQUIPMENT CONTROL)
GH20-1135-0	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) OPERATIONS MANUAL - PROGRAM NUMBER 5795-AAA (OS MESSAGE SWITCHING)
SH20-1136-0	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST), SYSTEM PROGRAMMER'S - REFERENCE MANUAL PROGRAM NUMBER 5795-AAA (OS MESSAGE SWITCHING)
GH20-1137-0	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) - TERMINAL OPERATOR'S MANUAL - PROGRAM NUMBERS 5795-AAA (OS MESSAGE SWITCHING) 5795-AAC (DOS MESSAGE SWITCHING)
LH20-1138-0	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) - PROGRAM LOGIC MANUAL - PROGRAM NUMBERS 5795-AAA (OS MESSAGE SWITCHING) 5795-AAC (DOS MESSAGE SWITCHING)
GH20-1139-0	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) - FILE DESCRIPTION MANUAL - PROGRAM NUMBERS 5795-AAA (OS MESSAGE SWITCHING) 5795-AAC (DOS MESSAGE SWITCHING)
SH20-1146-0	IBM OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL MULTITHREAD (OS PASTER MT) OPERATIONS GUIDE - PROGRAM NUMBER 5734-G21
SH20-1147-0	IBM OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL MULTITHREAD (OS PASTER MT) PROGRAM NUMBER 5734-G21
GH20-1148-0	PROPERTY AND LIABILITY INFORMATION SYSTEM ENHANCEMENTS PLANNING MANUAL - PROGRAM NUMBERS 5736-N24 AND 5736-N25
SH20-1150-0	BUDGET ACCOUNTING INFORMATION SYSTEM (BACIS) PROGRAM PRODUCT - OPERATOR'S GUIDE - PROGRAM NUMBER 5736-G25
SH20-1151-0	BUDGET ACCOUNTING INFORMATION SYSTEM (BACIS) FOR PUBLIC INSTITUTIONS; PROGRAM PRODUCT REFERENCE MANUAL PROGRAM NUMBER 5736-G25
GH20-1152-0	RCA 301 EMULATOR ON SYSTEM/370 USING DOS (PRPQ) - TRANSITION GUIDE - PROG. NO. 5799-ADR
GH20-1153-0	HONEYWELL SERIES 200 EMULATOR ON SYSTEM/370 USING DOS (PRPQ) - TRANSITION GUIDE - PROG. NO. 5799-ADT
SH20-1154-0	**SN20-2790 MARKETABLE SECURITIES INVENTORY SYSTEM, PROGRAMMING REQ MB4259, PROGRAM REFERENCE MANUAL - PROG. NO. 5799-ABY
SH20-1155-0	MARKETABLE SECURITIES INVENTORY SYSTEM PROGRAMMING REQ MB4259 - PROGRAM NUMBER 5799-ABY OPERATIONS GUIDE OPERATIONS GUIDE
SH20-1157-0	MATH/BASIC PROGRAM PRODUCT FOR ITF - OPERATOR'S GUIDE PROGRAM NUMBER 5734-XM8
SH20-1158-0+	MATH/BASIC FOR SYSTEM/3 MODEL 6 AND INTERACTIVE TERMINAL FACILITY (ITF) - PROGRAM PRODUCT REFERENCE MANUAL PROGRAM NUMBERS 5703-XM2 (S/3 MODEL 6) 5734-XM8 (ITF-OS, DOS AND TOS)
SH20-1159-0	REGISTERED REPRESENTATIVE SYSTEM PROGRAMMING OVERVIEW PROGRAM NUMBER 5734-F34
GH20-1163-0	(CPS) CONVERSATIONAL PROGRAMMING SYSTEM BASIC TERMINAL USER'S MANUAL - PROGRAM NUMBER 360D-03.4-016
SH20-1164-0	PLANNING SYSTEMS GENERATOR II (PSG II) DOS OPERATOR'S GUIDE PROGRAM PRODUCT 5736-XT1
SH20-1166-0	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) SYSTEM PROGRAMMER'S REFERENCE MANUAL - PROGRAM PRODUCT 5795-AAC (DOS MESSAGE SWITCHING)
SH20-1167-0	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) OPERATIONS MANUAL - PROGRAM PRODUCT 5795-AAC (DOS MESSAGE SWITCHING)
LH20-1168-0	FAST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) PROGRAM LOGIC MANUAL-PROGRAM PRODUCT 5797-AAC (DOS MESSAGE SWITCHING)
SH20-1169-0	FIRST INFORMATION RETRIEVAL FOR SURFACE TRANSPORTATION (FIRST) FILE DESCRIPTION MANUAL - PROGRAM PRODUCT 5795-AAC (DOS MESSAGE SWITCHING)
GH20-1170-0+	INTERACTIVE TRAINING SYSTEM - GENERAL INFORMATION MANUAL PROGRAM NUMBER 5734-XXC
GH20-1171-0	SYSTEM/370 DISTRIBUTED SYSTEM PROGRAM (S/370 DSP) GENERAL INFORMATION MANUAL - APPLICATION PROGRAM NUMBER 360A-TX-032
GH20-1173-0+	IBM SYSTEM/360 AND SYSTEM/370 ASP VERSION F 3 ASYMMETRIC MULTIPROCESSING SYSTEM GENERAL INFORMATION MANUAL APPLICATION - PROGRAM NUMBER 360A-CX-15X
SH20-1174-0	PLANNING SYSTEMS GENERATOR II (PSG II) DOS - PROGRAM REFERENCE MANUAL - PROGRAM PRODUCT 5736-XT1
**GH20-1175-0+	BUSINESS ANALYSIS/BASIC FOR SYSTEM/3 BASIC AND SYSTEM/360 AND SYSTEM/370 INTERACTIVE TERMINAL FACILITY GENERAL INFORMATION MANUAL - PROGRAM NUMBER 5703-XM3, 5734-XM8
SH20-1177-0	PLANNING GUIDE FOR THE PL/1 QUERY SUPPORT FEATURE OF GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) PROGRAM NUMBER 5734-XX1
GH20-4001-1	SHAS COMPATIBLE TELEPROCESSING SPECIFICATION SHEET PROGRAM NUMBER 5736-H13
GH20-4003-1	COURSEWRITER III (OS) VERSION 2 PROGRAM NUMBER 5734-E12
GH20-4004-0	PROJECT MANAGEMENT SYSTEM/360 VERSION 3 PROGRAM NUMBER 5734-XP1
GH20-4005-1	OS/360 REQUIREMENTS PLANNING PROGRAM PRODUCT SPECIFICATIONS PROGRAM NUMBER 5734-H51
GH20-4006-0	SYSTEMS/360 LEARN DOS ADMINISTRATIVE TERMINAL SYSTEM PROGRAM NUMBER 5736-XX3
GH20-4007-0	SYSTEM/360 LEARN OS ADMINISTRATIVE TERMINAL SYSTEM PROGRAM NUMBER 5734-XX8

GH20-4000-0 OS/360 INVENTORY CONTROL PROGRAM NUMBER 5734-M52  
 SPECIFICATION SHEETS  
 GH20-4012-0 SYSTEM/360 REQUIREMENTS PLANNING INTERFACE  
 PROGRAM NUMBER 5736-M13  
 GH20-4014-0 SYSTEM/360 CAPACITY PLANNING - INFINITE LOADING  
 PROGRAM NUMBER 5736-M11  
 GH20-4015-0 CFO AUTOCODER TO ASSEMBLER LANGUAGE INSTRUCTION SET  
 TRANSLATOR (CATALIST) PROGRAM NUMBER 5736-XX2  
 \*\*GH20-4016-1 TARIFF PUBLISHING SYSTEM (BOUND TARIFFS)  
 PROGRAM NUMBER 5736-T21  
 GH20-4017-1 POWER SYSTEM PLANNING PROGRAM SPECIFICATIONS SHEETS  
 PROGRAM NUMBER 5736-U12  
 GH20-4019-0 MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) VERSION 2  
 SPECIFICATIONS SHEET PROGRAM NUMBER 5736-H11  
 \*\*GH20-4020-1 TRAFFIC PROFILE ANALYSIS SYSTEM (POINT-TO-POINT TARIFF ITEM  
 SELECTION) PROGRAM NUMBER 5736-T22  
 GH20-4021-0 SHARED LABORATORY INFORMATION SYSTEM (SLIS) PROGRAM  
 PRODUCT SPECIFICATIONS PROGRAM NUMBER 5736-H12  
 GH20-4022-0 CONSUMER GOODS SYSTEMS (COGS) - ALLOCATION  
 PROGRAM NUMBER 5736-D31  
 GH20-4023-0 THE CONSUMER GOODS SYSTEMS (COGS) - FORECASTING  
 PROGRAM NUMBER 5736-D32  
 GH20-4024-0 SHOP FLOOR CONTROL - PROGRAM NUMBER 5736-M31  
 GH20-4025-1 CLINICAL LABORATORY MANAGEMENT SYSTEM (CLMS)  
 PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5718-H12  
 GH20-4026-0 SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM WITH DISK OS  
 (RAX-DOS) PROGRAM NUMBER 5799-AAA SPECIFICATION SHEET  
 GH20-4027-0 AGRIBUSINESS MANAGEMENT INFORMATION SYSTEM (AMIS)  
 SPECIFICATIONS SHEET PROGRAM NUMBER: 5736-D51  
 GH20-4028-0 DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR  
 PROGRAM NUMBER 5736-XX4  
 GH20-4030-0 IBM SYSTEM/360 RESOURCE ALLOCATION  
 FOR PROJECT CONTROL SYSTEM/360 PROGRAM NUMBER: 5736-XP2  
 PROGRAM PRODUCT SPECIFICATIONS  
 GH20-4031-0 PALIS ADDITIONAL FILE FACILITY (2314)  
 PROGRAM NUMBER 5736-M22  
 GH20-4032-0 FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER  
 RETRIEVAL - LOW CORE (FASTER LC)  
 SPECIFICATIONS - PROGRAM NUMBER 5736-G22  
 GH20-4034-0 COMPUTER SYSTEM SIMULATOR II (CSS II) SPECIFICATIONS SHEET  
 PROGRAM NUMBER 5734-XS5  
 GH20-4035-0 GENERAL PURPOSE SIMULATION SYSTEM V-OS (GPSS V-OS)  
 PROGRAM NUMBER 5734-XS2  
 GH20-4036-0 FINANCIAL TERMINAL SYSTEM (FTS)  
 GH20-4037-1 SYSTEM/360 TEXT PROCESSOR PAGINATION/360  
 PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-K12  
 GH20-4039-0 DIRECT ACCESS TERMINAL APPLICATION (DATA/360-DOS)  
 PROGRAM NUMBER 5736-XS2  
 GH20-4040-0 GENERAL PURPOSE SIMULATION SYSTEM V-DOS (GPSS V-DOS)  
 PROGRAM NUMBER 5736-XS3  
 GH20-4041-0 IBM VEHICLE SCHEDULEING PROGRAM - EXTENDED (OS)  
 PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-XM5  
 GH20-4042-0 IBM VEHICLE SCHEDULING PROGRAM - EXTENDED (DOS)  
 PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-XM3  
 GH20-4043-0 CUSTOMER INFORMATION CONTROL SYSTEM OS - STANDARD (CICS/OS)  
 AND LANGUAGE AND TERMINAL FEATURE (L/T)  
 (FEATURE 6004, 6005, 6006) - DESIGN OBJECTIVES  
 PROGRAM NUMBER 5736-U11  
 GH20-4044-1 SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM (ACIP)  
 PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5736-F32  
 GH20-4046-0 APL/360-DOS PROGRAM PRODUCT SPECIFICATIONS  
 PROGRAM NUMBER 5736-XM6  
 GH20-4047-1 APL/360-OS PROGRAM PRODUCT SPECIFICATIONS  
 PROGRAM NUMBER 5734-XM6  
 GH20-4048-0 SYSTEM/360 CONSUMER GOODS SYSTEM (COGS) FORECASTING (OS)  
 PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-D33  
 GH20-4049-0 SYSTEM/360 CONSUMER GOODS SYSTEM (COGS) ALLOCATION (OS)  
 PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-D32  
 GH20-4067-1 INFORMATION MANAGEMENT SYSTEM/360 (IMS/360) VERSION 2  
 DESIGN OBJECTIVES - PROGRAM NUMBER 5734-XX6  
 GH20-4076-0 SYSTEM/360 GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (OS)  
 PROGRAM PRODUCT FUNCTIONAL DESCRIPTION SHEET  
 PROGRAM PRODUCT 5734-XX2  
 GH20-4077-0 GENERAL PURPOSE SIMULATION SYSTEM/360 OS VERSION 2 PROGRAM  
 PRODUCT FUNCTIONAL DESCRIPTION SHEET  
 PROGRAM PRODUCT 5734-XS1  
 GH20-4078-0 GENERAL PURPOSE SIMULATION SYSTEM/360 DOS VERSION 2 PROGRAM  
 PRODUCT FUNCTIONAL DESCRIPTION SHEET  
 PROGRAM PRODUCT 5734-XS1  
 GH20-4079-0 SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE - PS (M44)  
 PROGRAM PRODUCT FUNCTIONAL DESCRIPTION SHEET  
 PROGRAM NUMBER 5736-P71  
 GH20-4080-1 SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE - OS PROGRAM  
 PRODUCT SPECIFICATION SHEET - PROGRAM NUMBER 5736-P72  
 GH20-4081-0 PROJECT MANAGEMENT SYSTEM/360 VERSION 3 FUNCTIONAL  
 DESCRIPTION SHEET - PROGRAM NUMBER 5734-XP1  
 GH20-4082-0 RIGID FRAME SELECTION PROGRAM - FUNCTIONAL DESCRIPTION SHEET  
 PROGRAM NUMBER 5734-EC1  
 GH20-4083-0 RIGID FRAME SELECTION PROGRAM - FUNCTIONAL DESCRIPTION  
 SHEET (RFSP DOS) - PROGRAM NUMBER 5736-EC1  
 GH20-4085-0 LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM  
 (LEMRAS) FUNCTIONAL DESCRIPTION - PROGRAM PRODUCT 5736-G21  
 GH20-4101-0 ONLINE COBOL SYMBOLIC DEBUG FOR IBM CP-67 SYSTEMS (RPQ)  
 PROGRAM NUMBER 5799-AAE - REFERENCE PRPQ AA0476  
 PROGRAM PRODUCT SPECIFICATION SHEET  
 GH20-4102-1 MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX)  
 SPECIFICATION SHEET - PROGRAM NUMBER 5734-XM4  
 GH20-4103-0 DISPLAY MANAGEMENT SYSTEMS (DMS) - PROGRAM NUMBER 5734-XC1  
 GH20-4104-0 PROJECT MANAGEMENT SYSTEM IV, PROGRAM PRODUCT SPECIFICATIONS  
 PROGRAM NUMBER 5734-XP4  
 GH20-4105-0 DIRECT ACCESS TERMINAL APPLICATION (DATA/360-OS)  
 PROGRAM NUMBER 5734-XS3  
 GH20-4106-1 INFORMATION MANAGEMENT SYSTEM/360 (IMS/360) VERSION 2  
 PROGRAM NUMBER 5734-XX6  
 GH20-4108-0 COMPUTER SYSTEM SIMULATOR II (CSS II)  
 PROGRAM PRODUCT SPECIFICATIONS, PROGRAM NUMBER 5734-XS5  
 GH20-4109-0 PROCEDURE LIBRARY-MATHEMATICS (L-MATH)  
 PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-XM3  
 GH20-4110-0 OS/360 REQUIREMENTS PLANNING SPECIAL FEATURE #6015  
 PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-M51  
 GH20-4111-0 OS CAPACITY PLANNING - INFINITE LOADING  
 PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-M53  
 GH20-4112-0 OS CAPACITY PLANNING - FINITE LOADING  
 PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-M54  
 GH20-4113-0 OS SHOP FLOOR CONTROL, PROGRAM NUMBER 5734-M31  
 PROGRAM PRODUCT SPECIFICATION SHEET

GH20-4118-1 IBM BASIC COURTS SYSTEM SPECIFICATIONS SHEETS  
PROGRAM NUMBER 5736-G26

GH20-4121-1 BROKERAGE ACCOUNTING SYSTEMS ELEMENTS (BASE)  
SPECIFICATIONS SHEETS - PROGRAM NUMBER 5736-F31

GH20-4122-0 MINIPERT - PROGRAM NUMBER 5734-XP3

GH20-4123-0 FARE QUOTE/TICKETING SPECIFICATION SHEET PROGRAM NUMBER  
5736-T11

\*\*GH20-4124-1 GENERALIZED INFORMATION SYSTEM, VERSION 2 (GIS/2)  
SPECIFICATIONS SHEET PROGRAM NUMBER 5734-XX1

GH20-4127-0 CONSOLIDATED FUNCTIONS ORDINARY II - CFO-II  
SPECIFICATIONS SHEETS - PROGRAM NUMBER 5736-N13

GH20-4128-0 COURSEWRITER III/DOS VERSION 3 - SPECIFICATION SHEET  
PROGRAM NUMBER 5736-E11

GH20-4130-0 THE DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY  
TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD  
(DOS FASTER MT) PROGRAM NUMBER 5736-G24

\*\*GH20-4131-1 CUSTOMER INFORMATION CONTROL SYSTEM/DOS ENTRY  
SPECIFICATION SHEETS - PROGRAM NUMBER 5736-XX6

GH20-4133-1# OS REQUIREMENTS PLANNING EXTENSIONS - SPECIFICATIONS  
PROGRAMMING RPQ EA6264 - PROGRAM NUMBER 5799-AYY

\*\*GH20-4134-1 CUSTOMER INFORMATION CONTROL SYSTEM/DOS-STANDARD  
(CICS/DOS-STANDARD) - PROGRAM NUMBER 5736-XX7

GH20-4135-0 3330/2385 APT SUPPORT PROGRAMMING RPQ WB5773  
PROGRAM NUMBER 5799-ACZ (PRPQ SPECIFICATIONS)

GH20-4136-1 PROGRAM SYSTEMS GENERATOR II (PSG II) - SPECIFICATION SHEET  
PROGRAM NUMBER 5734-XT1

GH20-4137-0 ELECTRONIC CIRCUIT ANALYSIS PROGRAM II (ECAP-II) FOR THE  
OPERATING SYSTEM AND 1130 SYSTEM - SPECIFICATIONS SHEET  
PROGRAM NUMBERS 5734-EE1 AND 5711-EE1

\*\*GH20-4139-0 STAT/BASIC FOR ITF - SPECIFICATION SHEET  
PROGRAM 5734-XA3

\*\*GH20-4140-2 CUSTOMER INFORMATION CONTROL SYSTEM/OS  
STANDARD V2 (CICS/OS-STANDARD V2) PROGRAM PRODUCT  
SPECIFICATIONS - PROGRAM NUMBER 5734-XX7

GH20-4141-0 BILL PROCESSOR SYSTEMS - IMS/360 BRIDGE  
PROGRAM NUMBER 5734-XX9

GH20-4142-0 FASHION REPORTER PROGRAM PRODUCT SPECIFICATIONS  
PROGRAM NUMBER 5736-D11

GH20-4144-0 SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC  
UTILITY INDUSTRY SHORT CIRCUIT Ro FEATURE SPECIFICATIONS  
PROGRAM NUMBER 5736-U12

GH20-4146-0 IBM SYSTEM/360 AND SYSTEM/370 SUBROUTINE LIBRARY MATHEMATICS  
(SL-MATH) SPECIFICATIONS - PROGRAM NUMBER 5736-XM7

GH20-4148-0 BASIC (BUDGET ACCOUNTING INFORMATION SYSTEM) FOR PUBLIC  
INSTITUTIONS - PROGRAM PRODUCT SPECIFICATIONS  
PROGRAM NUMBER 5736-G25

GH20-4149-0 THE OPERATING SYSTEM FILING AND SOURCE DATA ENTRY  
TECHNIQUES FOR EASIER RETRIEVAL-MULTITHREAD (OS FASTER MT)  
PROGRAM PRODUCT SPECIFICATIONS - PROGRAM NUMBER 5734-G21

GH20-4170-1 GENERALIZED INFORMATION SYSTEM, VERSION 2 (GIS/2)  
DESIGN OBJECTIVES - PROGRAM NUMBER 5734-XX1

GH20-4179-0 CHECK PROCESSING CONTROL SYSTEM (CPCS)  
PROGRAM PRODUCT DESIGN OBJECTIVES, PROGRAM NUMBER 5734-F11

GH20-4183-0 CASH AND CREDIT ACCOUNT MAINTENANCE PROGRAM PRODUCT  
DESIGN OBJECTIVES

GH20-4188-0+ IBM SECURITIES ORDER MATCHING - PROGRAM NUMBER 5734-F32  
DESIGN OBJECTIVES

\*\*GH20-4191-2# INFORMATION MANAGEMENT SYSTEM/360 (IMS/360) VERSION 2  
GH20-4191-1# DATA COMMUNICATION FEATURE ENHANCEMENT  
PROGRAM NUMBER 5734-Y16

GH20-4195-0 DIRECT ACCESS TERMINAL APPLICATION (DATA/360 DOS-11)  
DESIGN OBJECTIVES - PROGRAM NUMBER 5736-XS5

GH20-4196-0 DIRECT ACCESS TERMINAL APPLICATION (DATA/360 OS-11)  
DESIGN OBJECTIVES - PROGRAM NUMBER 5734-XS8

GH20-4197-1# PALIS AUTOMOBILE ENHANCEMENTS - DESIGN OBJECTIVES SHEET  
GH20-4197-0# PROGRAM NUMBER 5736-N24

GH20-4199-1# PALIS ADDITIONAL FILE FACILITY - PROGRAM NUMBER 5736-N22  
GH20-4199-0#

GH20-4203-0 THE DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY  
TECHNIQUES FOR EASIER RETRIEVAL MULTITHREAD (DOS FASTER MT)  
DESIGN OBJECTIVES - PROGRAM NUMBER 5736-G24

GH20-4207-0 EPIC: FAST TEST SCORING SYSTEM DESIGN OBJECTIVES  
PROGRAM NUMBER 5735-E92

GH20-4208-0 EPIC: SOCRATES STUDENT SCHEDULING SYSTEM DESIGN OBJECTIVES  
PROGRAM NUMBER 5735-E91

GH20-4209-0 EPIC: STUDENT RECORDS DESIGN OBJECTIVES  
PROGRAM NUMBER 5735-E94

GH20-4210-0 EPIC: BUDGET/FINANCE DESIGN OBJECTIVES  
PROGRAM NUMBER 5735-E93

GH20-4217-0 CICS FEATURE FOR DATA BASE ORGANIZATION AND MAINTENANCE  
PROCESSOR FEATURES - DESIGN OBJECTIVES SHEET  
FEATURE NUMBERS 6024-6029

GH20-4220-0 IBM SYSTEM/360 AND SYSTEM/370 MATRIX GENERATOR AND REPORT  
WRITER (MGRW), PPDO PROGRAM PRODUCT 5734-XMC

GH20-4221-0 GENERALIZED UPPER BOUNDING (GUB) FEATURE OF MATHEMATICAL  
PROGRAMMING SYSTEM EXTENDED (MPSX), PPDO PROGRAM PRODUCT  
5734-XM4 FEATURE 6059, 6060, 6061

GH20-4222-0+ INTERACTIVE TRAINING SYSTEM COURSE STRUCTURING FEATURE  
SPECIFICATION SHEET - PROGRAM NUMBER 5734-XXC

\*\*GH20-4223-0 BUSINESS ANALYSIS/BASIC FOR SYSTEM/3 MODEL 6 AND ITF (OS,DOS,TSO)  
GH20-4301-0 DESIGN OBJECTIVES - PROGRAM PRODUCTS 5703-XM3, 5734-XMB  
COURSEWRITER III/OS VERSION 3 - SPECIFICATION SHEET  
PROGRAM NUMBER 5734-E13

GH20-4302-0 PALIS AUTOMOBILE ENHANCEMENT - SPECIFICATION SHEET  
PROGRAM NUMBER 5736-N24

GH20-4303-0 CONTINUOUS SYSTEM MODELING PROGRAM (CSMP III)  
SPECIFICATION SHEET - PROGRAM NUMBER 5734-XS9

GH20-4304-1 MARKETABLE SECURITIES INVENTORY SYSTEM PROGRAMMING RPQ  
MB4259 - SPECIFICATION SHEET - PROGRAM NUMBER 5799-ABY

GH20-4305-0 CPS UNDER TSO - V DESIGN OBJECTIVES SHEET  
PROGRAM NUMBER 5799-ADY

GH20-4307-0 PALIS HOMEOWNERS ENHANCEMENTS - PROGRAM NUMBER 5736-N25  
GH20-4308-0 MATH/BASIC FOR SYSTEM/3 AND ITF (OS, DOS AND TSO)  
SPECIFICATIONS - PROGRAM PRODUCT 5703-XM2, 5734-XM8

GH20-4309-0 PSG -11 DOS SPECIFICATIONS - PROGRAM PRODUCT 5736-KT1

\*\*GH20-4312-0 STORAGE AND INFORMATION RETRIEVAL SYSTEM SPECIFICATION  
SHEET (STAIRS) - PROGRAM NUMBER 5734-XR3

\*\*GJD1-0015-0 3030 4-CHANNEL SWITCH SUPPORT (CALTRP) ICR - PROGRAM  
NUMBER 360-OS-587

GJD1-1010-2 SYSTEM/360 OS PRIMARY CONTROL PROGRAMS  
MICROFICHE LISTING - PROGRAM NUMBER 360S-CI-566

GJD1-1011-1 OPERATING SYSTEM/360 TIME SHARING OPTION PROGRAM LISTING  
(TSO) PROGRAM NUMBER 360S-CI-555

GJD1-1012-2 SYSTEM/360 OS MVT

GJD1-1013-2 SYSTEM/360 OS DATA MANAGEMENT  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-DN-508

GJD1-1014-2 SYSTEM/360 OS BASIC DIRECT ACCESS METHOD  
MICROFICHE LISTING - PROGRAM NUMBER 360S-DN-509

GJD1-1015-2 SYSTEM/360 OS REMOTE JOB ENTRY  
GJD1-1016-2 MICROFICHE LISTING - PROGRAM NUMBER 360S-RC-536  
SYSTEM/360 OS DBAM  
GJD1-1017-2 MICROFICHE LISTINGS - PROGRAM NUMBER 360S-CQ-513  
SYSTEM/360 OS QPAM  
GJD1-1018-2 MICROFICHE LISTING - PROGRAM NUMBER 360S-CQ-519  
SYSTEM/360 OS OLTEP  
GJD1-1019-2 MICROFICHE LISTINGS - PROGRAM NUMBER 360S-DN-533  
OPERATING SYSTEM/360 CONVERSATIONAL REMOTE JOB ENTRY  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-RC-551  
PROGRAM LISTING  
GJD1-1020-2 SYSTEM/360 OS ISAM  
MICROFICHE LISTINGS - PROGRAM NUMBER #[]S-IO-526  
GJD1-1021-2 SYSTEM/360 OS UTILITIES  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-UT-506  
GJD1-1022-1 OPERATING SYSTEM/360 INDEPENDENT UTILITIES  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-UT-507  
GJD1-1023-2 OPERATING SYSTEM/360 TELEPROCESSING  
COMMUNICATIONS ACCESS METHOD (TCAM)  
PROGRAM LISTING - PROGRAM NUMBER 360S-CQ-548  
GJD1-1025-0 SYSTEM/360 OS ALGOL COMPILER-F  
MICROFICHE LISTING - PROGRAM NUMBER 360S-AL-531  
GJD1-1026-0# SYSTEM/360 OS ALGOL LIBRARY  
GJD1-1026-0# MICROFICHE LISTING - PROGRAM NUMBER 360S-LH-532  
GJD1-1030-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360-OS ASSEMBLER E 360S-AS-036  
GJD1-1035-2 MICROFICHE - SOURCE LISTING  
SYSTEM/360-OS ASSEMBLER F 360S-AS-037  
GJD1-1040-1 SYSTEM/360 OS COBOL COMPILER-F  
MICROFICHE LISTING - PROGRAM NUMBER 360S-CO-503  
GJD1-1042-2 SYSTEM/360 OS ANS COBOL  
MICROFICHE LISTING - PROGRAM NUMBER 360S-CB-545  
GJD1-1043-2 SYSTEM/360 OS ANS COBOL LIBRARY  
MICROFICHE LISTING - PROGRAM NUMBER 360S-LM-546  
GJD1-1044-2 SYSTEM/360 OS COBOL F LIBRARY  
MICROFICHE LISTING - PROGRAM NUMBER 360S-LM-525  
GJD1-1045-2 SYSTEM/360 OS COBOL COMPILER-F  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-CB-524  
GJD1-1048-2 SYSTEM/360 OS COBOL LIBRARY  
MICROFICHE LISTING - PROGRAM NUMBER 360S-LM-504  
GJD1-1050-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360-OS FORTRAN E IV 360S-FO-092  
GJD1-1052-2 SYSTEM/360 OS FORTRAN G IV  
MICROFICHE LISTING - PROGRAM NUMBER 360S-FO-520  
GJD1-1054-2 OPERATING SYSTEM/360 FORTRAN SYNTAX CHECKER  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-FO-550  
GJD1-1055-2 SYSTEM/360 OS FORTRAN H IV  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-FO-500  
GJD1-1058-2 SYSTEM/360 OS FORTRAN LIBRARY IV  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-LM-501  
GJD1-1060-2 SYSTEM/360 OS PL/1 COMPILER F  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-NL-511  
GJD1-1062-2 SYSTEM/360 OS SERVICE AIDS  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-DN-554  
GJD1-1065-2 OPERATING SYSTEM/360 PL/I SYNTAX CHECKER  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-PL-552  
GJD1-1068-2 SYSTEM/360 OS PL/1 LIBRARY F  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-LM-512  
GJD1-1070-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360-OS LINKAGE EDITOR E 360S-ED-510  
GJD1-1072-2 SYSTEM/360 OS LINKAGE EDITOR LOADER  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-LD-547  
GJD1-1075-2 SYSTEM/360 OS LINKAGE EDITOR F  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-ED-521  
GJD1-1076-2 SYSTEM/360 OS SER0, SER1  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-DN-527  
GJD1-1077-2 SYSTEM/360 OS RECOVERY MANAGEMENT  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-DN-539  
GJD1-1080-2 SYSTEM/360 OS SORT MERGE  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-SH-023  
GJD1-1085-2 SYSTEM/360 OS TESTRAN  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-PT-516  
GJD1-1090-2 SYSTEM/360 OS GRAPHIC PROGRAMMING SERVICES  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-IO-523  
GJD1-1091-2 SYSTEM/360 OS GRAPHIC SUB-ROUTINE PROGRAM  
MICROFICHE LISTINGS - PROGRAM NUMBER 360S-LM-537  
GJD1-1092-2 SYSTEM/360 OS SATELLITE GRAPHIC JOB PROCESS  
MICROFICHE LISTING - PROGRAM NUMBER 360S-RC-543  
GJD1-1093-1 SYSTEM/360 OS GRAPHIC JOB PROCESS  
MICROFICHE LISTING - PROGRAM NUMBER 360S-RC-541  
GJD1-1094-1 MICROFICHE - SOURCE LISTING  
SYSTEM/360-OS 1130/360 DATA TRANSMISSION 360S-LM-542  
GJD1-1095-2 SYSTEM/360 OS REPORT PROGRAM GENERATOR  
PROGRAM NUMBER 360S-RG-038  
GJD1-1096-0 MICROFICHE FOR OPERATING SYSTEM RELEASE 20.7 PROGRAMS:  
360S-CI-505 360S-CI-535 360S-CI-555 360S-CQ-548  
360S-DM-508 360S-DN-509 360S-DN-527 360S-DN-533  
360S-DN-554 360S-ED-521 360S-IO-526 360S-LD-547  
460S-LM-512 360S-NL-511 360S-UT-506 360S-UT-507  
GJD1-1097-0 SYSTEM/360 OPERATING SYSTEM RELEASE SUPPORT DOCUMENTATION  
(MICROFICHE)  
GJD1-1098-0 SYSTEM/360 OPERATING SYSTEM RELEASE SUPPORT DOCUMENTATION  
(MICROFICHE)  
GJD1-1100-0 MICROFICHE - SOURCE LISTING  
ATTACHED SUPPORT PROCESSOR (ASP) PROGRAM NUMBER 360A-CX-15X  
GJD1-1310-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360 SIMULATOR 1410/7010 360C-SI-754  
GJD1-1370-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360 SIMULATOR 7070/7074 360C-SI-753  
GJD1-1380-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360 SIMULATOR 7080 360C-SI-551  
GJD1-1390-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360 SIMULATOR 7090/7094 360C-SI-750  
GJD1-1400-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360 EMULATOR (MODEL 40) 1401/1410 360C-EU-074  
GJD1-1410-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360 EMULATOR (MODEL 40) 360C-EU-728  
GJD1-1420-1 IBM 7994 EMULATOR FOR THE SYSTEM/360 MODEL 85 UNDER OS/360  
MICROFICHE LISTINGS - PROGRAM NUMBER 360C-EU-734  
GJD1-1480-2 IBM OPERATING SYSTEM/360 DOS EMULATOR PROGRAM FOR  
SYSTEM/370 MODELS 145 AND 155 - PROGRAM NUMBER 360C-EU-738  
GJD1-1500-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360 EMULATOR (MODEL 50) 1410/7010 360C-EU-726  
GJD1-1510-1 MICROFICHE - SOURCE LISTING  
SYSTEM/360 EMULATOR (MODELS 50 AND 65) 7070/7074 360C-EU-725

GJD1-1600-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360 EMULATOR (MODEL 65) 7040/7044 360C-EU-733

GJD1-1620-1 MICROFICHE - SOURCE LISTING  
SYSTEM/360 EMULATOR (MODEL 65) 7080 360C-EU-727

GJD1-1630-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360 EMULATOR (MODEL 65) 7090/7094 360C-EU-729

GJD1-1640-1# OPERATING SYSTEM 370/165 OS-7094 INTEGRATED EMULATOR  
GJD1-1640-0# MICROFICHE LISTINGS - PROGRAM NUMBER 360C-EU-740  
GJD1-1641-0 SYSTEM/360 OPERATING SYSTEM EMULATOR FOR 7074  
ON 370/165 UNDER OPERATING SYSTEM  
PROGRAM LISTING MICROFICHE - PROGRAM NUMBER 360C-EU-739  
7080 EMULATOR FOR SYSTEM/370 MODEL 165 UNDER OPERATING  
SYSTEM/360 - MICROFICHE LISTING - PROGRAM NUMBER 360C-EU-737

GJD1-1642-0 EMULATOR FOR 7074 ON S/370 MODEL 155 UNDER OS  
MICROFICHE - PROGRAM NUMBER 360C-EU-741

GJD1-1700-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360 MODEL 44 BASIC PROGRAMMING SUPPORT (BPS)  
360F-UT-601

GJD1-1720-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360 MODEL 44 BASIC PROGRAMMING SUPPORT 360F-IO-613

GJD1-1740-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360 MODEL 44 1620 SIMULATOR FOR 1620 360C-SI-755

GJD1-2000-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360 BASIC PROGRAMMING SUPPORT (BPS)  
PROGRAM NUMBERS BEGINNING WITH 360P

GJD1-2010-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360-BOS BASIC OPERATING SYSTEM (COMPLETE)

GJD1-2012-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360 BOS MACRO LISTINGS, PROGRAM NUMBERS 360B-CL-302,  
360B-IO-303, 360B-IO-304, 360B-IO-305  
360B-SU-023

GJD1-2020-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360-TOS CONTROL PROGRAM (COMPLETE)

GJD1-2032-2# SYSTEM/360 DISK OPERATING SYSTEM  
GJD1-2032-1# MACROS - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-CL-453  
GJD1-2035-1 SYSTEM/360 DISK OPERATING SYSTEM  
SORT/MERGE - TAPE  
MICROFICHE LISTINGS - PROGRAM NUMBER 360N-SH-400

GJD1-2036-1 SYSTEM/360 DISK OPERATING SYSTEM  
SORT/MERGE - DISK  
MICROFICHE LISTINGS - PROGRAM NUMBER 360N-SH-450

GJD1-2037-0 SYSTEM/360 DISK OPERATING SYSTEM  
BASIC FORTRAN IV  
MICROFICHE LISTING - PROGRAM NUMBER 360N-FO-451

GJD1-2038-2# SYSTEM/360 DISK OPERATING SYSTEM  
GJD1-2038-1# COBOL - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-CB-452  
GJD1-2039-2 SYSTEM/360 DISK OPERATING SYSTEM  
SYSTEM CONTROL/IOCS  
MICROFICHE LISTINGS - PROGRAM NUMBER 360N-CL-453

GJD1-2040-1 SYSTEM/360 DISK OPERATING SYSTEM  
ISFMS - MICROFICHE LISTING - PROGRAM NUMBERS 360N-IO-457,  
360N-IO-477, 360N-IO-478

GJD1-2042-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360-DOS AUTOTEST 360N-PT-459

GJD1-2043-1 SYSTEM/360 DISK OPERATING SYSTEM  
RPG/DISK - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-RG-460

GJD1-2044-2# SYSTEM/360 DISK OPERATING SYSTEM  
GJD1-2044-1# UTILITY GROUP 1 - MICROFICHE LISTING - PROGRAM 360N-UT-461  
GJD1-2045-2 SYSTEM/360 DISK OPERATING SYSTEM  
UTILITY GROUP 2  
MICROFICHE LISTINGS - PROGRAM NUMBER 360N-UT-462

GJD1-2046-1 SYSTEM/360 DISK OPERATING SYSTEM  
UTILITY GROUP 3  
MICROFICHE LISTINGS - PROGRAM NUMBER 360N-UT-463

GJD1-2047-2# SYSTEM/360 DISK OPERATING SYSTEM  
GJD1-2047-1# PL/I - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-PL-464  
GJD1-2048-2# SYSTEM/360 DISK OPERATING SYSTEM  
GJD1-2048-1# ASSEMBLER - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-AS-465  
GJD1-2049-2 SYSTEM/360 DISK OPERATING SYSTEM  
ASSEMBLER P - MICROFICHE LISTINGS - PROGRAM 360N-AS-466

GJD1-2050-2# SYSTEM/360 DISK OPERATING SYSTEM  
GJD1-2050-1# BTAM - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-CQ-479  
GJD1-2052-2# SYSTEM/360 DISK OPERATING SYSTEM  
GJD1-2052-1# QTAM - MICROFICHE LISTINGS - PROGRAM NUMBER 360N-CQ-470  
GJD1-2053-1 SYSTEM/360 DISK OPERATING SYSTEM  
MPS UTILITY MACROS  
MICROFICHE LISTINGS - PROGRAM NUMBER 360N-UT-471

GJD1-2054-1 S/360 DISK OPERATING SYSTEM  
VOCABULARY FILE UTILITY PROGRAM - MICROFICHE LISTINGS  
PROGRAM NUMBER 360N-UT-472

GJD1-2055-2# SYSTEM/360 DISK OPERATING SYSTEM  
GJD1-2055-1# COMPELLER I/O MODULES  
MICROFICHE LISTINGS - PROGRAM NUMBER 360N-IO-476

GJD1-2056-2# SYSTEM/360 DISK OPERATING SYSTEM  
GJD1-2056-1# FORTRAN IV MICROFICHE LISTING - PROGRAMS 360N-FO-479, LM-480  
GJD1-2057-3 SYSTEM/360 DISK OPERATING SYSTEM RELEASE 26 OLTEP  
PROGRAM NUMBER 360N-DN-401

GJD1-2058-2 SYSTEM/360 DISK OPERATING SYSTEM  
SORT/MERGE DISK/TAPE  
MICROFICHE LISTINGS - PROGRAM NUMBER 360N-SH-483

GJD1-2059-1 SYSTEM/360 DISK OPERATING SYSTEM - MICROFICHE LISTINGS -  
CE SERVICEABILITY PROGRAM  
OLTEP - PROGRAM NUMBER 360N-DN-401

GJD1-2060-2# SYSTEM/360 DISK OPERATING SYSTEM  
GJD1-2060-1# ANS COBOL - MICROFICHE LISTING - PROGRAM NUMBER 360N-CB-482  
GJD1-2063-1# DISK OPERATING SYSTEM MODEL 155 EMULATOR  
GJD1-2063-0# MICROFICHE LISTINGS - PROGRAM NUMBER 360N-EU-490  
GJD1-2100-1# EMULATOR FOR 1401/1440/1460 ON THE SYSTEM/370 MODEL 155  
GJD1-2100-0# UNDER OS, MICROFICHE LISTING - PROGRAM NUMBER 360C-EU-735  
GJD1-2150-1# EMULATOR FOR THE IBM 1401/1440/1460 ON THE SYSTEM/370  
GJD1-2150-0# MODEL 155 UNDER OS PROGRAM NUMBER 360C-EU-735  
MICROFICHE LISTINGS

GJD1-2300-0 MICROFICHE - SOURCE LISTING  
SYSTEM/360 EMULATOR (MODEL 30) 1401/1460 360C-EU-097

GJD1-3070-1 MICROFICHE - SOURCE LISTING  
IBM 1800 MXP MULTIPROGRAMMING EXECUTIVE SYSTEM 1800-OS-010  
REFERENCE CARD

GJD1-4610-0# MICROFICHE - SOURCE LISTING  
SYSTEM/360 FORTRAN IV TO PL/I LANGUAGE CONVERSION PROGRAM  
360C-CV-710

GJD1-4620-0# MICROFICHE - SOURCE LISTING  
SYSTEM/360 COBOL TO PL/I LANGUAGE CONVERSION PROGRAM  
360C-CV-712

GJD1-9000-3# MICROFICHE - SOURCE LISTING  
GJD1-9000-2# SYSTEM/360 USA STANDARD COBOL LANGUAGE CONVERSION PROGRAM  
GJD1-9000-1# 360C-CV-713  
GJD1-9030-1 MICROFICHE - SOURCE LISTING  
SYSTEM/360-TSS (CONTROLLED RELEASE I) 360G-CL-627

GL19-0003-1			CUSTOM SYSTEM DESCRIPTION: IBM 2970 MODEL 8 BANK TERMINAL, RPQ 858230
GL21-9071-0	GN21-0131		IBM 2501 CARD READER, MODELS A AND B RPQ FEATURES
GL22-6871-3			IBM SYSTEM/360 2911 MANUAL SWITCHING UNIT MODELS 1, 2, and 5
GL22-6890-0			AND 2909 REMOTE SWITCHING CONSOLE SPECIAL SYSTEMS FEATURE
GL22-6901-1			SPECIAL SYSTEMS FEATURE BULLETIN, IBM 2930 MODEL 001,
GL22-6902-0			TAPE INTERSYSTEM CONNECTING UNIT - RPQ M22146
GL22-6903-0			IBM 2937 MODELS 1, 2, AND 3, MULTIPLIER-SUMMATION PROCESSOR,
GL22-6904-0			SPECIAL SYSTEM FEATURE, RPQ 800626
GL22-6928-0	GN22-0353		IBM SYSTEM/360 MODEL 40 SUM OF PRODUCTS INSTRUCTION -
GL22-6936-1			RPQ W12561 SPECIAL SYSTEMS FEATURE
GL22-6937-1#			IBM SYSTEM/360 MODEL 40, HALFWORD TRANSLATE INSTRUCTION -
GL22-6937-0#			RPQ W13462 SPECIAL SYSTEMS FEATURE
GL22-6940-1			IBM SYSTEM/360 MODEL 40, TABLE ADDRESS CHAINING -
GL22-6945-1			RPQ W13510 SPECIAL SYSTEMS FEATURE
GL22-6960-0	GN22-0374		IBM AIRLINES RESERVATION SYSTEM, REMOTE EQUIPMENT
**GL22-6979-1			INSTALLATION MANUAL - PHYSICAL PLANNING
GL22-6982-0			IBM 2914 SWITCHING UNIT MODEL 1, RPQ 800882, CUSTOM FEATURE:
GL24-3570-0	GN24-0477		INSTALLATION MANUAL - PHYSICAL PLANNING
**GL24-3571-2			IBM SYSTEM/360 CUSTOM FEATURE DESCRIPTION
GL24-3591-0			2914 SWITCHING UNIT MODEL 1 - RPQ 800882
GL24-3592-0			IBM 2969 PROGRAMMABLE TERMINAL INTERCHANGE
**GL24-3596-1			MODEL 1--RPQ888117
GL24-3597-0			IBM 2969 PROGRAMMABLE TERMINAL INTERCHANGE MODEL 1,
GL27-3009-1			RPQ 888117 - INSTALLATION MANUAL - PHYSICAL PLANNING
GL27-3010-0			IBM RESERVATION SYSTEM CUSTOM FEATURE DESCRIPTION
GL27-3022-1			IBM 2947 MODEL 4 CHECK COLLECTION CONTROLLER (RPQ 888264)
GL27-3025-1			FUNCTIONAL CHARACTERISTICS - REFERENCE MANUAL
GQ27-6939-0			IBM 2947 CHECK COLLECTION CONTROLLER MODEL 4 (RPQ 888264)
GQ28-6628-6	GN28-2464		INSTALLATION MANUAL PHYSICAL PLANNING
GQ28-6631-10	GN28-2461		IBM 2946 TERMINAL CONTROL SUBSYSTEM
GQ28-6646-4	GN27-1350		COMPONENT DESCRIPTION AND OPERATING GUIDE
GQ28-6650-4			IBM 2946 TERMINAL CONTROL SUBSYSTEM INSTALLATION MANUAL
GQ28-6720-2	GN28-2460		PHYSICAL PLANNING
GQ60-6660-6			IBM 2927 TAPE-TO-PRINTER UNIT RPQ 812390 & 812391
SR20-1078-3			COMPONENT DESCRIPTION
GT00-0002-0	GN26-0631	GN26-0624	IBM 2927 TAPE-TO-PRINTER UNIT, RPQ 812390 AND 812391:
GT00-0003-0	GN33-8100		INSTALLATION MANUAL - PHYSICAL PLANNING
GT00-0004-0			IBM 2922 PROGRAMMABLE TERMINAL REQ'S 810563, 810564, 810565
GT00-0005-0			INSTALLATION MANUAL--PHYSICAL PLANNING
GT00-0006-0			IBM 2922 PROGRAMMABLE TERMINAL (RPQ 810563, 810564
GT00-0007-0	**GN28-0435	**GN28-0474	AND 810565) COMPONENT DESCRIPTION AND OPERATING PROCEDURES
GT00-0008-0	**GN28-0272	**GN28-0423	AND 810565) COMPONENT DESCRIPTION AND OPERATING PROCEDURES
GT00-0009-0	GN33-8096		2905 REMOTE MULTIPLEXER COMPONENT DESCRIPTION
GT00-0010-0	GN28-2495	GN28-2499	IBM SYSTEM/360 CUSTOM SYSTEMS UNIT.
GT00-0011-0	GN26-0634	GN26-0635	2905 REMOTE MULTIPLEXER, 2906 TRANSMISSION CONTROL,
GT00-0012-0	GN26-0627	GN26-0629	INSTALLATION MANUAL - PHYSICAL PLANNING
GT00-0013-0	GN35-0001	GN35-0003	CUSTOM SYSTEM DESCRIPTION:
GT00-0014-0			IBM 2740-1/2950-2 BATCH BUFFER TERMINAL SYSTEMS REFERENCE
GT00-0015-0			LIBRARY MANUAL
GT00-0016-0			IBM 2740-1/2950-2 BATCH BUFFER TERMINAL
GT00-0017-0			INSTALLATION MANUAL - PHYSICAL PLANNING
GT00-0018-0			IBM SYSTEM/360 OPERATING SYSTEM RELEASE 20
GT00-0019-0			MFT GUIDE A FIXED NUMBER OF TASKS (MFT)
GT00-0020-0			PROGRAM NUMBER 360S-CI-505
GT00-0021-0			OS SYSTEM CONTROL BLOCKS (PRIOR EDITION)
GT00-0022-0			OS MESSAGES AND CODES (PRIOR EDITION)
GT00-0023-0			OS SUPERVISOR SERVICES AND MACRO INSTRUCTIONS
GT00-0024-0			(PRIOR EDITION)
GT00-0025-0			IBM SYSTEM/360 OPERATING SYSTEM RELEASE 20
GT00-0026-0			ON-LINE TEST EXECUTIVE PROGRAM SYSTEMS REFERENCE
GT00-0027-0			LIBRARY MANUAL - PROGRAM NUMBER 360S-DN-533
GT00-0028-0			OS MVT GUIDE (PRIOR EDITION)
GT00-0029-0	**GN28-2457	GN28-2472	OS MVT JOB MANAGEMENT - PLM (PRIOR EDITION)
GT00-0030-0	GN26-0625	GN28-2473	SYSTEM/360 - 370 OPERATOR'S REFERENCE GUIDE
GT00-0031-0	GN28-2463		OS DATA MANAGEMENT SERVICES (PRIOR EDITION)
GT00-0032-0	GN28-2500		OS ASSEMBLER (F) PROGRAMMER'S GUIDE
GT00-0033-0	GN28-2502		PROGRAM NUMBER 360S-AS-037 (PRIOR EDITION)
GT00-0034-0	GN26-0620	GN26-0623	OS GRAPHIC PROGRAMMING SERVICES FOR THE IBM 2260 DISPLAY
GT00-0035-0	GN35-0002		STATION - PROGRAM NUMBER 360S-IO-523 (PRIOR EDITION)
GT00-0037-0	GN28-2478		OS MFT GUIDE - PROGRAM NUMBER 360S-CI-505 (PRIOR EDITION)
GT00-0039-0	GN28-2514	GN28-2516	OS ASSEMBLER LANGUAGE - PROGRAM NUMBERS 360S-AS-036
	GN28-2498	GN28-2496	360S-AS-037 (PRIOR EDITION)
	**GN28-2400	**GN28-2503	OS LINKAGE EDITOR AND LOADER PROGRAM NUMBERS 360S-ED-521,
			360S-ED-510 AND 360S-LD-547 (PRIOR EDITION)
			OS SORT/MERGE - PROGRAM NUMBER 360S-SM-023 (PRIOR EDITION)
			OS DATA MANAGEMENT FOR SYSTEM PROGRAMMER'S GUIDE
			PROGRAM NUMBER 360S-CI-555 (PRIOR EDITION)
			OS STORAGE ESTIMATE (PRIOR RELEASE)
			OS SYSTEM GENERATION (PRIOR RELEASE)
			OS UTILITIES - PROGRAM NUMBERS 360S-UT-506, 360S-UT-507
			(PRIOR EDITION)
			OS ALGOL LANGUAGE
			OS SYSTEM CONTROL BLOCKS (PRIOR EDITION)
			OS MESSAGES AND CODES (PRIOR EDITION)
			OS SUPERVISOR SERVICES AND MACRO INSTRUCTIONS
			(PRIOR EDITION)
			OS ON-LINE TEXT EXECUTIVE PROGRAM (PRIOR EDITION)
			OS PROGRAMMER'S GUIDE TO DEBUGGING (PRIOR EDITION)
			OS TAPE LABELS (PRIOR EDITION)
			OS SYSTEM/360 OPERATING SYSTEM OPERATOR'S REFERENCE MANUAL
			(PRIOR EDITION)
			OS TSO GUIDE
			OS JOB CONTROL LANGUAGE REFERENCE MANUAL (PRIOR EDITION)
			OS ADVANCED CHECKPOINT/RESTART (PRIOR EDITION)
			OS SYSTEMS MANAGEMENT FACILITIES (PRIOR EDITION)
			OS SERVICE AIDS (PRIOR EDITION)
			OS MVT GUIDE (PRIOR EDITION)
			OS RELEASE GUIDE (PRIOR EDITION)
			OS TSO COMMAND LANGUAGE REFERENCE (PRIOR EDITION)
			OS RDE GUIDE (PRIOR EDITION)
			OS TSO TERMINAL USER'S GUIDE (PRIOR EDITION)
			OS TSO GUIDE TO WRITING A TERMINAL MONITOR PROGRAM OR A
			COMMAND PROCESSOR (PRIOR EDITION)
			OS REMOTE JOB ENTRY (PRIOR EDITION)
			OS CONVERSATIONAL RJE CONCEPTS AND FACILITIES
			(PRIOR EDITION)
			OS CONVERSATIONAL RJE TERMINAL USER'S GUIDE (PRIOR EDITION)
			OS CONVERSATIONAL RJE SYSTEM PROGRAMMER'S GUIDE
			(PRIOR EDITION)
			OS ALGOL PROGRAMMER'S GUIDE (PRIOR EDITION)
			OS IBM 1285, 1287, 1288 OPTICAL READERS - PLM
			(PRIOR EDITION)

GT00-0040-0			OS GRAPHICS ACCESS METHOD - PLM (PRIOR EDITION)
GT00-0041-0	GN28-2468		OS JOB MANAGEMENT WITH MFT-PLM (PRIOR EDITION)
GT00-0042-0			OS MACHINE CHECK HANDLER FOR S/370 MODEL 155, 165-PLM (PRIOR EDITION)
GT00-0043-0			OS TSO CONTROL PROGRAM - PLM (PRIOR EDITION)
GT00-0044-0	GN27-1349	GN27-1364	OS MFT SUPERVISOR - PLM (PRIOR EDITION)
GT00-0045-0			OS MACHINE CHECK HANDLER FOR S/370 MODELS 135, AND 145 PLM (PRIOR EDITION)
GT00-0046-0	GN28-0416	GN28-0400	OS AMERICAN NATIONAL STANDARD COBOL - PLM (PRIOR EDITION)
GT00-0047-0	GY33-0030		OS SORT/MERGE - PLM (PRIOR EDITION)
GT00-0048-0			OS SEQUENTIAL ACCESS METHOD - PLM (PRIOR EDITION)
GT00-0049-0	GN26-0006	GY35-0002	OS CATALOG MANAGEMENT - PLM (PRIOR EDITION)
GT00-0050-0	GY35-0007		OS DIRECT ACCESS DEVICE SPACE MANAGEMENT - PLM (PRIOR EDITION)
GT00-0052-0	GY35-0001		OS UTILITIES - PLM (PRIOR EDITION)
GT00-0053-0			OS INPUT/OUTPUT SUPERVISOR - PLM (PRIOR EDITION)
GT00-0054-0			OS BASIC DIRECT ACCESS METHOD - PLM (PRIOR EDITION)
GT00-0055-0			OS INDEXED SEQUENTIAL ACCESS METHODS - PLM (PRIOR EDITION)
GT00-0056-0			OS ON-LINE TEST EXECUTIVE PROGRAM - PLM (PRIOR EDITION)
GT00-0057-0	**GN27-1354	**GN27-1363	OS MVT SUPERVISOR - PLM (PRIOR EDITION)
GT00-0058-0			OS MVT JOB MANAGEMENT - PLM (PRIOR EDITION)
GT00-0059-0	GN27-1344	GN27-1353	OS INITIAL PROGRAM LOADER AND INITIALIZATION PROGRAM - PLM (PRIOR EDITION)
GT00-0060-0	GN28-0434		OS LINKAGE EDITOR (F) - PLM (PRIOR EDITION)
GT00-0061-0			OS TSO TERMINAL MONITOR PROGRAM AND SERVICE ROUTINES - PLM (PRIOR EDITION)
GT00-0062-0	GY30-2550	GY30-2553	OS CONVERSATIONAL RJE - PLM (PRIOR EDITION)
GT00-0063-0	GN28-2485		OS TSO COMMAND PROCESSOR VOL. 3 - PLM (PRIOR EDITION)
GT00-0064-0	GN27-1356	GN27-1362	OS OPERATOR'S GUIDE FOR DISPLAY CONSOLES
GT28-6514-6	GN33-0072		IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER LANGUAGE PROGRAM NUMBERS 360S-AS-037, 360S-AS-036 BACK LEVEL
GT28-6543-5	GN33-0070	GN33-0054	IBM SYSTEM/360 OPERATING SYSTEM SORT/MERGE PROGRAM NUMBER 360S-SM-023 BACK LEVEL
GT28-6550-8	GN28-2437	GN28-2452	OS DATA MANAGEMENT FOR SYSTEM PROGRAMMER'S GUIDE PROGRAM NUMBER 360S-CI-555 (PRIOR EDITION)
GT28-6551-11	GN28-2438		OS STORAGE ESTIMATE (PRIOR RELEASE)
GT28-6554-9	GN28-2439	GN26-0613	OS SYSTEM GENERATION (PRIOR RELEASE)
GT28-6586-11	GN26-0628		IBM SYSTEM/360 OPERATING SYSTEM RELEASE 19 AND 20 UTILITIES - PROGRAM NUMBER 360S-UT-507, 360S-UT-506, 5734-UT2
GT28-6628-5			OS SYSTEM CONTROL BLOCKS (PRIOR EDITION)
GT28-6631-9	GN28-2429	GN28-2440	OS MESSAGES AND CODES (PRIOR EDITION)
GT28-6670-3#			OS PROGRAMMER'S GUIDE TO DEBUGGING (PRIOR EDITION)
GT28-6670-2#			OS TAPE LABELS (PRIOR EDITION)
GT28-6680-2			OS SYSTEM/360 OPERATING SYSTEM OPERATOR'S REFERENCE MANUAL (PRIOR EDITION)
GT28-6691-1	GN28-2433	GN28-2444	OS TSO GUIDE (PRIOR EDITION)
GT28-6698-2			OS JOB CONTROL LANGUAGE REFERENCE MANUAL (PRIOR EDITION)
GT28-6704-0	GN28-2451		OS SERVICE AIDS (PRIOR EDITION)
GT28-6719-0			OS RELEASE GUIDE (PRIOR EDITION)
GT28-6730-0	GN28-2465		IBM SYSTEM/360 OPERATING SYSTEM, DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY: PLI AND BASIC GENERAL INFORMATION - PROGRAM NUMBERS 5736-RC1, 5736-RC2 5736-RC1,2
GT28-6830-0			IBM SYSTEM/360 DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY: PL/I AND BASIC - PROGRAM NUMBERS 5736-RC1 5736-RC2
ST28-6833-0			IBM SYSTEM/360 OS/DOS ITP: PL/I INTRODUCTION PROGRAM NUMBERS 5734-RC1, 5736-RC1
ST28-6836-0	SN28-0410	SN28-0410	IBM SYSTEM/360 OS/DOS ITP INSTALLATION REFERENCE MATERIAL PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2
GT60-0305-2			SYSTEM/360 ATTACHED SUPPORT PROCESSOR SYSTEM (ASP) VERSION 2 SYSTEM MANUAL PROGRAM NUMBER 360A-CX-15X
GT60-6604-3	GN26-0009		OS SEQUENTIAL ACCESS METHOD - PLM (PRIOR EDITION)
GT60-6607-6	GN26-0012		IBM SYSTEM/360 OPERATING SYSTEM DIRECT ACCESS DEVICE SPACE MANAGEMENT - PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-AS-037
GT60-6614-6#	GY35-0006		OS UTILITIES - PLM (PRIOR EDITION)
GT60-6614-5#			IBM SYSTEM/360 OPERATING SYSTEM: INPUT/OUTPUT SUPERVISOR PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-CI-505
GT60-6616-7	GN26-0013		OS BASIC DIRECT ACCESS METHOD - PLM (PRIOR EDITION)
GT60-6617-4	GN26-0007		IBM SYSTEM/360 OPERATING SYSTEM INDEXED SEQUENTIAL ACCESS METHOD - PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-IO-526
GT60-6618-3	GN26-0001		OS INITIAL PROGRAM LOADER AND INITIALIZATION PROGRAM - PLM (PRIOR EDITION)
GT60-6661-3			OS LINKAGE EDITOR (F) - PLM (PRIOR EDITION)
GT60-6667-0	GY28-6404	GY28-6401	IBM SYSTEM/360 OS/DOS ITP PROGRAM LOGIC MANUAL INTRODUCTION AND METHOD OF OPERATION PROGRAM NUMBERS 5734-RC1, RC3; 5736-RC1, RC2 (PREVIOUS RELEASE)
LT60-6832-0	GY28-2357	GN28-0481	IBM SYSTEM/360 OS/DOS ITP PROGRAM LOGIC MANUAL INITIALIZATION SYSTEM CONTROL AND SYSTEM SUPPORT PROGRAM LOGIC MANUAL - PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2
LT60-6833-0	LN28-0417		IBM SYSTEM/360 OS/DOS ITP PROGRAM LOGIC LANGUAGE COMPONENT CONTROLLER PROGRAM LOGIC MANUAL PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2
LT60-6834-0			IBM SYSTEM/360 OS/DOS ITP PROGRAM LOGIC MANUAL PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2
LT60-6840-0			IBM SYSTEM/360 OS/DOS ITP PROGRAM LOGIC MANUAL PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2
ST80-6813-0			IBM SYSTEM/360 OS/DOS ITP: PL/I REFERENCE CARD PROGRAM NUMBERS 5734-RC1, 5736-RC1
ST80-6814-0			IBM SYSTEM/360 OPERATING SYSTEM IBM SYSTEM/360 DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY BASIC REFERENCE CARD, PROGRAM NUMBERS 5736-RC2, 5734-RC3
GX20-1702-1#			PROPORTIONAL RECORD LAYOUT FORM
GX20-1702-0#			IBM SYSTEM/360 REFERENCE DATA CARD
GX20-1703-9#			IBM 2321 DATA CELL DRIVE
GX20-1703-8#			IBM 2311 DISK CELL DRIVE REFERENCE CARD
GX20-1703-7#			IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT - BASIC UTILITIES REFERENCE CARD
GX20-1704-1			PROGRAM NUMBERS 360P-UT-017, 360P-UT-018, 360P-UT-019, 360P-UT-020
GX20-1705-2			IBM 2314 DIRECT ACCESS STORAGE FACILITY CAPACITY AND TRANSMISSION TIME REFERENCE CARD
GX20-1709-2			
GX20-1710-2			

GX20-1711-1#	IBM SYSTEM/360 RECORD LAYOUT WORKSHEET
GX20-1711-0#	IBM 2301 DRUM STORAGE
GX20-1717-1	OPERATING SYSTEM/360 REFERENCE CARD: LINKAGE EDITOR AND LOADER
GX20-1739-3	IBM 1287 OPTICAL READER DOCUMENT TRACING GUIDE
GX20-1741-3	IBM SYSTEM/360 DOS/TOS REFERENCE CARD PL/I
GX20-1749-2	IBM 2260 DISPLAY FORMAT
GX20-1751-0	IBM SYSTEM/360 MODEL 30 1401/1440/1460 COMPATIBILITY FEATURE REFERENCE CARD
GX20-1750-0	IBM 1287 OPTICAL READER DESIGN FORMATS
GX20-1759-3#	MATHEMATICAL PROGRAMMING INPUT FORM
GX20-1759-2#	SYSTEM/360 - 1130
GX20-1761-0	IBM SYSTEM/360 REFERENCE DATA DOS JOB CONTROL LANGUAGE OPERATOR COMMUNICATION REFERENCE CARD
GX20-1771-2#	COURSEWRITER III SYSTEM STUDENT/MONITOR REFERENCE CARD
GX20-1771-1#	PROGRAM NUMBERS 5734-E12 360A-UX-01X
GX20-1780-1	IBM AUTHOR'S COURSEWRITER III REFERENCE CARD
GX20-1781-0	PROGRAM NUMBERS 360A-UX-01X, 5734-E12
GX20-1782-1	IBM SUPERVISOR'S COURSEWRITER III REFERENCE CARD
GX20-1787-0	PROGRAM NUMBERS 5734-E12, 360A-UX-01X
GX20-1807-0	DEBUGGING AID
GX20-1808-0	DIRECT EVALUATION OF FLOATING POINT NUMBERS IN HEXADECIMAL SHARED LABORATORY INFORMATION SYSTEM CLM CODING SHEET
GX20-1809-0	PROGRAM NUMBER 5736-H12
GX20-1810-2	SHARED LABORATORY INFORMATION SYSTEM CLM CODING SHEET
GX20-1811-2	PROGRAM NUMBER 5736-H12
GX20-1812-2	SHARED LABORATORY INFORMATION SYSTEM CLM CODING SHEET
GX20-1817-1#	PROGRAM NUMBER 5736-H12
GX20-1817-0#	CALL/360-OS PL/I REFERENCE CARD PROGRAM NUMBER 360A-CX-42X
GX20-1827-1	CALL/360-OS BASIC REFERENCE CARD PROGRAM NUMBER 360A-CX-42X
GX20-1828-0	CALL/360-OS FORTRAN REFERENCE CARD PROGRAM NUMBER 360A-CX-42X
GX20-1829-0	SYSTEM/360 POWER II REFERENCE CARD
GX20-1830-0	SYSTEM/360/370 ASP REFERENCE CARD, PROGRAM NUMBER 360A-CX-15X
GX20-1832-0	GENERAL PURPOSE SIMULATION SYSTEM V, (GPSS V), BLOCK STATEMENT FORMATS SYSTEM OPTIONS - PROGRAM NUMBERS 5734-XS2 5736-XS3
GX20-1833-0	GENERAL PURPOSE SIMULATION SYSTEM V REFERENCE CARD PROGRAM NUMBERS 5734-SX2 (OS) 5736-SX3 (DOS)
GX20-1834-0	CALL-OS TERMINAL COMMAND LANGUAGE - REFERENCE CARD PROGRAM NUMBER 360A-CX-42X
GX20-1835-0	COURSEWRITER III VERSION 3 MONITOR REFERENCE CARD PROGRAM NUMBERS 5736-E11 (DOS) 5734-E13 (OS)
GX20-1850-0	COURSEWRITER III VERSION 3 AUTHOR'S REFERENCE CARD PROGRAM NUMBERS 5736-E11 (DOS) 5734-E13 (OS)
GX20-8920-1	COURSEWRITER III, VERSION 3 STUDENT REFERENCE CARD OPERATING HINTS - PROGRAM NUMBER 5736-E11 (DOS) 5734-E13 (OS)
GX21-9090-1	COURSEWRITER III, VER(SION 3 SUPERVISOR'S REFERENCE CARD PROGRAM NUMBERS 5736-E11 (DOS) 5734-E13 (OS)
GX21-9091-1	SYSTEM/370 REFERENCE SUMMARY
GX21-9092-2	FLOWCHARTING TEMPLATE
GX21-9093-1	RPG OUTPUT SPECIFICATIONS SHEET
GX21-9106-0	RPG EXTENSIONS AND LINE COUNTER SPECIFICATIONS SHEET
GX21-9109-1	RPG CONTROL CARD AND FILE DESCRIPTION SPECIFICATION SHEET
GX21-9129-1	RPG CALCULATION SPECIFICATIONS SHEET
GX22-6835-1	IBM 1288 DOCUMENT GAUGE FOR MACHINE SETUP
GX22-6837-5	RPG DEBUGGING TEMPLATE
GX22-6855-8	PHYSICAL PLANNING TEMPLATE IBM SYSTEM/360 HYPERTAPE 2401 - 2404 AND 2415 MAGNETIC TAPE UNITS
GX22-6856-1	IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 AND SYSTEM/370 MAGNETIC TAPE UNITS AND CONTROLS
GX22-6857-6#	PHYSICAL PLANNING TEMPLATE SYSTEM/360 PROCESSOR MODEL 075
GX22-6857-5#	IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 AND SYSTEM/370 COMMUNICATIONS EQUIPMENT
GX22-6858-5	IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 AND SYSTEM/370 DATA STORAGE DEVICES
GX22-6859-4	IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 AND SYSTEM/370 CONSOLES AND TERMINALS
GX22-6860-4#	IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 AND SYSTEM/370 MAGNETIC AND OPTICAL CHARACTER READERS
GX22-6860-3#	IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 MODELS 22, 25, 30, AND 40
GX22-6894-4#	PHYSICAL PLANNING TEMPLATE SYSTEM/360 MODEL 67
GX22-6894-3#	PHYSICAL PLANNING TEMPLATE SYSTEM/360 PROCESSORS MODELS 44 AND 50
GX22-6905-1	PHYSICAL PLANNING TEMPLATE SYSTEM/360 MODEL 85
GX22-6914-1	PHYSICAL PLANNING TEMPLATE SYSTEM/360 MODEL 65 MULTISYSTEM
GX22-6923-1#	IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 AND SYSTEM/370 FIELD ENGINEERING FURNITURE AND TEST EQUIPMENT
GX22-6923-0#	SYSTEM/360 SYSTEM/370 TEST EQUIPMENT ANALYZER FURNITURE BASIC STORAGE MODULE DATA ADAPTER UNIT
GX22-6924-0	IBM PHYSICAL PLANNING TEMPLATE SYSTEM/360 MODEL 195
GX22-6925-1#	IBM SYSTEM/370 MODEL 165 OPERATORS REFERENCE CARD
GX22-6925-0#	IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/360 AND SYSTEM/370 CHANNELS: 2860, 2870, AND 2880
GX22-6981-0	IBM PHYSICAL PLANNING TEMPLATE SYSTEM/370 MODEL 145
GX22-6984-1	IBM PHYSICAL PLANNING TEMPLATE SYSTEM/370 MODEL 155
GX22-6985-0	IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/370 MODEL 165
GX22-7005-0	IBM PHYSICAL PLANNING TEMPLATE: SYSTEM/370 MODEL 135
GX22-7006-0	IBM PHYSICAL PLANNING TEMPLATE SYSTEM/360 AND SYSTEM/370
GX22-7007-1	IBM SYSTEM/360 MODEL 30 IBM 1052 KEY-TABS
GX22-7008-0	IBM SYSTEM/360 MODEL 30 IBM 2702 WORKSHEET
GX22-7010-0	IBM SYSTEM/360 MODEL 30 MULTIPLEXER CHANNEL WORKSHEET
GX24-3376-0	IBM 1445 PRINTER SPACING CHART
GX24-3406-0	IBM 1400 COMPATIBILITY INITIALIZATION DECK SYSTEM/360 MODEL 30 CODING SHEETS 1 AND 2
GX24-3407-0	MULTIPLEXER CHANNEL WORKSHEET - SYSTEM/360 MODEL 25 CONFIGURATION A AND B
GX24-3440-0	IBM SYSTEM/360 ASSEMBLER CODING FORM, BPS/BOS/TOS/DOS DTFSR ENTRIES, CARD READ-PUNCH
GX24-3477-2	PROGRAM NUMBERS 360B-AS-309, 360M-AS-465, 360N-465, 360N-AS-466, 360P-AS-321, 360P-AS-391
GX24-3541-0	IBM SYSTEM/360 ASSEMBLER CODING FORM, BPS/BOS/TOS/DOS DTFSR ENTRIES, PRINTER AND PRINTER-KEYBOARD
GX24-5046-0	IBM SYSTEM/360 ASSEMBLER CODING FORM, BOS/DOS DTFSR ENTRIES, DISK
GX24-5047-0	PROGRAM NUMBERS 360N-AS-465, 360N-AS-466, 360B-AS-309
GX24-5048-1	IBM SYSTEM/360 ASSEMBLER CODING FORM, TOS/DOS MTMOD, CDMOD, AND PRMOD ENTRIES
GX24-5055-0	PROGRAM NUMBERS 360M-AS-465, 360N-AS-465, 360N-AS-466

GX26-1587-0		IBM REFERENCE CARD, DECIMAL/HEXADECIMAL INTEGER CONVERSION CHART
GX26-1588-0		IBM REFERENCE CARD, DECIMAL/HEXADECIMAL FRACTION CONVERSION CHART
GX26-5508-0		IBM PHYSICAL PLANNING TEMPLATE SYSTEM/360 PROCESS I/O DEVICES
GX27-2901-0		IMAGE PLANNING CHART - 2760 OPTICAL IMAGE UNIT, REGISTRATION PUNCHING ACME
GX27-2902-0		IMAGE PLANNING CHART - 2760 OPTICAL IMAGE UNIT REGISTRATION PUNCHING OXBERRY
GX27-2950-0		2250 DISPLAY LAYOUT SHEET
GX28-1464-5#		COBOL CODING FORM
GX28-1520-0		IBM REFERENCE CARD - COBOL
GX28-6384-0		IBM FORTRAN IV REFERENCE CARD
GX28-6400-2	GN28-3172	TSS/360 QUICK GUIDE FOR USERS PROGRAM NUMBER 360G-CL-627
GX28-6401-1	GN28-3173	TSS/360 QUICK GUIDE FOR SYSTEMS PROGRAMERS PROGRAM NUMBER 360G-CL-627 REFERENCE CARD
GX28-6506-4		IBM SYSTEM/360 BASIC ASSEMBLER SHORT CODING FORM PROGRAM NUMBER 360P-AS-021
GX28-6507-4		IBM SYSTEM/360 BASIC ASSEMBLER LONG CODING FORM
GX28-6509-6#		IBM SYSTEM/360 ASSEMBLER CODING FORM
GX28-6509-5#		
GX28-6509-4#		
GX28-6731-2		OPERATING SYSTEM SUMMARY CHART
GX28-6749-3		IBM OPERATING SYSTEM/360 REFERENCE CARD: SERVICE AIDS
GX28-6812-0		SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM - FORMATS FOR MACHINE-CHECK INTERRUPTION DIAGNOSTICS
SX28-6813-1		IBM SYSTEM/360 OS/DOS ITP: PLI REFERENCE CARD PROGRAM NUMBERS 5734-RC1, 5736-RC1
SX28-6814-1		IBM SYSTEM/360 OPERATING SYSTEM IBM SYSTEM/360 DISK OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY: BASIC REFERENCE CARD PROGRAM NUMBERS 5734-RC3, 5736-RC2
GX28-7327-6		FORTRAN CODING FORM
GX33-6000-0		IBM SYSTEM/360 OPERATING SYSTEM PL/1 (F) REFERENCE CARD: KEYWORDS
SX33-6001-0		DISK OPERATING SYSTEM/360 REFERENCE CARD PL/I OPTIMIZING COMPILER KEYWORDS
SX33-6002-0		OS PL/I OPTIMIZING AND CHECKOUT COMPILERS: KEYWORDS, TERMINAL COMMANDS, AND COMPILER OPTIONS REFERENCE CARD - PROGRAM NUMBERS 5734-PL1, PL2, PL3
GX35-5001-0		IBM SYSTEM/360/370 REFERENCE DATA 2401-2404, 2415, 2420, AND 3420 MAGNETIC TAPE UNITS
LYA2-5203-0		IBM SYSTEM/360 AND SYSTEM/370 SUBROUTINE LIBRARY MATHEMATICS - MICROFICHE LISTING - PROGRAM NUMBER 5736-XM7
LYA9-2007-0		IBM VEHICLE SCHEDULING PROGRAM--EXTENDED (OS) PROGRAM LOGIC MANUAL, VOLUME III PROGRAM LISTINGS - MICROFICHE, PROGRAM NUMBER 5734-XM5
LYA9-2008-0		IBM VEHICLE SCHEDULING PROGRAM -- EXTENDED (DOS) PROGRAM LOGIC MANUAL, VOLUME III PROGRAM LISTINGS - MICROFICHE PROGRAM NUMBER 5734-XM5
GYB0-0304-1		PROJECT CONTROL SYSTEM/360 VERSION 2 MICROFICHE-LISTINGS PROGRAM NUMBER: 360A-CP-06X
GYB0-0347-0		SYSTEM/360 MATRIX LANGUAGE (MATLAN) LISTINGS, PROGRAM NUMBER 360A-CN-05X
GYB0-0348-0		SYSTEM/360 AD-APT/AUTOSPOT (OS) NUMERICAL CONTROL PROCESSOR: LISTINGS APPLICATION - PROGRAM NUMBER 360A-CN-12X
GYB0-0414-0		LINEAR PROGRAMMING SYSTEM/360 (LPS/360) COMPIATION/ASSEMBLY LISTINGS MANUAL MICROFICHE - PROGRAM NUMBER 360A-CO-18X
**LYB0-0433-2		INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360: SYSTEM MANUAL, VOLUME III - ASSEMBLY LISTINGS MICROFICHE PROGRAM NUMBER 5736-CX3, FEATURE CODE 8003
LYB0-0454-1		PROJECT MANAGEMENT SYSTEM/360: VERSION 3, LISTINGS - SYSTEM MANUAL MICROFICHE PROGRAM NUMBER 5734-XP1 FEATURE CODE 8301
LYB0-0470-0		APL/360-OS ASSEMBLER LISTINGS PROGRAM NUMBER 5734-XM1, FEATURE CODE 8301
LYB0-0471-0		APL/360-DOS ASSEMBLER LISTINGS PROGRAM NUMBER 5736-XM1
**LYB0-0480-1		LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM (LEMRRAS) VOLUME 2 LISTINGS - MICROFICHE SYSTEM MANUAL PROGRAM NUMBER 5736-G21, FEATURE CODE 8401
GYB0-0492-0		SYSTEM/360 VEHICLE SCHEDULING PROGRAM (360A-ST-06X) LISTINGS - SYSTEM MANUAL
GYB0-0507-0		IBM SYSTEM/360 DOS POWER II: LISTINGS - MICROFICHE PROGRAM NUMBER 360D-05.2.006
GYB0-0508-1#		IBM SYSTEM/360 ATTACHED SUPPORT PROCESSOR SYSTEM (ASP) VERSION 2 MICROFICHE, PROGRAM NUMBER 360A-CX-15X
GYB0-0508-0#		2495 UTILITY FOR OS/360 - LISTINGS PROGRAM NUMBER 360D-00.0.020
GYB0-0515-0		CONVERSATIONAL REMOTE BATCH ENTRY (CRBE) VERSION 2: MOD 8 LISTINGS PROGRAM NUMBER 360D-05.1.016
GYB0-0516-1		CONVERSATIONAL PROGRAMMING SYSTEM (CPS) VERSION 5 LISTINGS PROGRAM NUMBER 360D-03.4.016
GYB0-0517-2		SYSTEM/360 DOS POWER II, VERSION 2, WITH REMOTE JOB ENTRY (RJE) - LISTINGS PROGRAM NUMBER 360D-05.2.006
GYB0-0527-2		CALL-OS VERSION 2 EXECUTIVE & UTILITY LISTINGS PROGRAM NUMBER 360A-CX-42X
GYB0-0538-2		CALL/360-OS (VERSION 1) BASIC ASSEMBLY LISTINGS PROGRAM NUMBER 360A-CX-42X (FE#030025)
GYB0-0540-1#		CALL/360-OS (VERSION 1) FORTRAN ASSEMBLY LISTINGS PROGRAM NUMBER 360A-CX-42X (FE#030025)
GYB0-0541-1#		CALL/360-OS (VERSION 1) PL/I ASSEMBLY LISTINGS PROGRAM NUMBER 360A-CX-42X (FE#030025)
GYB0-0542-1#		CP-67 VERSION 3 LISTINGS PROGRAM NUMBER 360D-05.2.005
GYB0-0542-0#		CP-67 VERSION 3 LISTINGS PROGRAM NUMBER 360D-05.2.005
GYB0-0542-1#		COMPATIBILITY OPERATING SYSTEM FOR EMULATION OF IBM 1410/7010 DATA PROCESSING SYSTEMS OPERATING ON IBM SYSTEM/360 MODEL 50 (COS/50) (360D-11.1.025) LISTINGS
GYB0-0592-1		PROJECT MANAGEMENT SYSTEM IV (PMS IV) COST PROCESSOR ASSEMBLY LISTINGS PROGRAM NUMBER 5734-XP4, FEATURE CODE 8076
GYB0-0593-1		PROJECT MANAGEMENT SYSTEM IV (PMS IV) NETWORK PROCESSOR ASSEMBLY LISTINGS PROGRAM NUMBER 5734-XP4, FEATURE CODE 7406
GYB0-0598-0		PROJECT MANAGEMENT SYSTEM IV (PMS IV) RESOURCE ALLOCATION PROCESSOR ASSEMBLY LISTINGS PROGRAM NUMBER 5734-XP4, FEATURE CODE 8079
LYB0-0617-0		
LYB0-0618-0		
LYB0-0619-0		

LYB0-0620-0			PROJECT MANAGEMENT SYSTEM IV (PMS IV) REPORT PROCESSOR ASSEMBLY LISTINGS PROGRAM NUMBER 5734-KP4, FEATURE CODE 8070
LYB0-0625-0			APL/360-OS ASSEMBLY LISTINGS, PROGRAM NUMBER 5734-XM6, FEATURE CODE 8092, FE SERVICE NUMBER 200156
LYB0-0626-0			APL/360 - DOS ASSEMBLY LISTINGS, PROGRAM NUMBER 5736-XM6, FEATURE CODE 8065, FE SERVICE NUMBER 200157
LYB0-0631-1			INFORMATION MANAGEMENT SYSTEM/360 VERSION 2, VOLUME 3, DATA BASE LISTINGS, MICROFICHE PROGRAM NUMBER 5734-XX6, FEATURE CODE 8082
**LYB0-0632-2			INFORMATION MANAGEMENT SYSTEM/360, VERSION 2, VOLUME 4, DATA COMMUNICATION LISTINGS, MICROFICHE PROGRAM NUMBER 5734-XX6, FEATURE CODE 8083
LYB0-0643-1			MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX) MICROFICHE ASSEMBLY LISTINGS - PROGRAM NUMBER 5734-XM4 FE SERVICE NUMBER 200080
LYB0-0644-1			MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX), MIXED INTEGER PROGRAMMING (MIP), PROGRAM NUMBER 5734-XM4, ASSEMBLY LISTING MICROFICHE
LYB0-0720-0			COURSEWRITER III, DOS VERSION 3 LISTINGS - MICROFICHE PROGRAM NUMBER 5736-E11
LYB0-0721-0			COURSEWRITER III; DOS VERSION 3 FLOWCHARTS MICROFICHE - PROGRAM NUMBER 5736-E11
LYB0-0724-1#			CUSTOMER INFORMATION CONTROL SYSTEM/DISK OPERATING SYSTEM ENTRY (CICS-DOS E) LISTING; PROGRAM NUMBER 5736-XX6
LYB0-0724-0#			CUSTOMER INFORMATION CONTROL SYSTEM/DISK OPERATING SYSTEM STANDARD (CICS/DOSS) LISTINGS - PROGRAM NUMBER 5736-XX7
LYB0-0735-1#			CUSTOMER INFORMATION CONTROL SYSTEM/OPERATING SYSTEM STANDARD (CICS/OS-STANDARD) VERSION 2 PROGRAM LISTINGS MICROFICHE - PROGRAM NUMBER 5734-XX7
LYB0-0735-0#			COURSEWRITER III, VERSION 3 OS FLOWCHARTS - MICROFICHE PROGRAM NUMBER 5734-E13
**LYB0-0781-2#			COURSEWRITER III, VERSION 3 OS LISTINGS - MICROFICHE PROGRAM NUMBER 5734-E13
LYB0-0784-0			CONTROL PROGRAM-67/CAMBRIDGE MONITOR SYSTEM (CP-67/CMX) VERSION 3.1 (COMPONENT RELEASE 1) 3420 MAGNETIC TAPE UNITS AND DUAL DENSITY SUPPORT - LISTINGS (MICROFICHE) PROGRAM NUMBER 360D-05.2.005
LYB0-0785-0			DISK OPERATING SYSTEM/360 RPG II PROGRAM LISTING PROGRAM NUMBER 5736-RG1
GYB0-0789-0			PROGRAM LISTINGS DOS SORT/MERGE PROGRAM PRODUCT - 5743-SM1 IBM DISK OPERATING SYSTEM REPORT PROGRAM GENERATOR II AUTO REPORT FEATURE - PROGRAM LISTINGS - PROGRAM NUMBER 5736-RG1
LYB1-0450-3			DOS/360 ASCII MAGNETIC TAPE UTILITIES PROGRAM LISTINGS PROGRAM NUMBER 5736-UT2
**LYC7-0901-0			IBM SYSTEM 360 OPERATING SYSTEM: TSO DATA UTILITIES: COPY, FORMAT, LIST, MERGE (LISTING) PROGRAM NUMBER 5734-UT1
LYC7-1317-0			SYSTEM/360 OPERATING SYSTEM ASCII UTILITIES ASSEMBLY LISTING MICROFICHE - PROGRAM PRODUCT - PROGRAM NUMBER 5734-UT2
LYC7-1700-0			SYSTEM/360 OPERATING SYSTEM PL/I CHECKOUT COMPILER PROGRAM LISTING - PROGRAM NUMBER 5734-PL2
LYC7-2300-1			DISK OPERATING SYSTEM/360 PL/I RESIDENT LIBRARY - ASSEMBLY LISTING MICROFICHE PROGRAM NUMBER 5736-LM4
LYC7-2301-0			DISK OPERATING SYSTEM/360 PL/I TRANSIENT LIBRARY ASSEMBLY LISTING MICROFICHE - PROGRAM NUMBER 5736-LM5
LYC7-2500-0	LNC7-2500	**LNC7-2516	DISK OPERATING SYSTEM/360 PL/I OPTIMIZING COMPILER ASSEMBLY LISTING MICROFICHE - PROGRAM NUMBER 5736-PL1
LYC7-2501-0	LNC7-2513	LNC7-2507	SYSTEM/360 OPERATING SYSTEM PL/I RESIDENT LIBRARY MICROFICHE - PROGRAM NUMBER 5734-LM4
LYC7-2502-0	LNC7-2514	LNC7-2502	SYSTEM/360 OPERATING SYSTEM TRANSIENT LIBRARY - MICROFICHE PROGRAM NUMBER 5734-LM5
LYC7-2501-1	LNC7-2501		SYSTEM/360 OPERATING SYSTEM PL/I OPTIMIZING COMPILER MICROFICHE LISTINGS - PROGRAM NUMBER 5734-PL1
LYC7-2503-1	LNC7-2515		IBM OPERATING SYSTEM 360 DOS ITF PROGRAM NUMBERS 5736-RC1 5737-RC1
LYC7-2504-0	LNC7-2504	**LNC7-2511	IBM OPERATING SYSTEM 360 DOS ITF PROGRAM NUMBERS 5736-RC1 5737-RC1
LYC7-2505-0	LNC7-2505	**LNC7-2512	IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3
LYC7-2506-0	LNC7-2506	**LNC7-2510	IBM OPERATING SYSTEM/360 ITF MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3
LYC7-5003-0	LNC7-5003		IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3
LYC7-5005-0	LNC7-5005		IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3
LYC7-5006-0	LYC7-5016		IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3
LYC7-5007-0			IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3
LYC7-5008-0			IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3
LYC7-5009-0			IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3
LYC7-5010-0			IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3
LYC7-5011-0			IBM SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - MICROFICHE LISTINGS - PROGRAM NUMBERS 5734-RC1, 5734-RC3
LYC7-5012-0			SYSTEM/360 DISK OPERATING SYSTEM FORTRAN F LIBRARY PROGRAM PRODUCT LISTING MICROFICHE ASC II - PROGRAM NUMBER 5736-LM1
LYC7-5013-0	LNC7-5013		DOS ITF RELEASE II - PL/I ASSEMBLY LISTINGS - MICROFICHE
LYC7-5014-0	LNC7-5014		DOS ITF RELEASE II - SHARED ASSEMBLY LISTINGS - MICROFICHE
LYC7-5015-0	LNC7-5015		DOS ITF RELEASE II - BASIC ASSEMBLY LISTINGS - MICROFICHE
LYC7-5016-0			IBM SYSTEM OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - MICROFICHE LISTINGS PROGRAM NUMBER 5734-RC1
LYC7-5017-0	LNC7-5017		OPERATING SYSTEM/360 INTERACTIVE TERMINAL FACILITY RELEASE 2 SHARED MODULES, MICROFICHE LISTINGS, PROGRAMS 5734-RC1, RC3
LYC7-5018-0	LNC7-5018		SYSTEM/360 OPERATING SYSTEM INTERACTIVE TERMINAL FACILITY - BASIC MODULES - MICROFICHE LISTINGS - PROGRAM NUMBER 5734-RC3
LYC7-5019-0			SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H EXTENDED) SOURCE LISTINGS - PROGRAM NUMBER 5734-F03
LYC7-5020-0			SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY (MODII) LISTINGS - PROGRAM NUMBER 5734-LM3
LYC7-5021-0	LNC7-5021		SYSTEM/360 OPERATING SYSTEM FORTRAN IV (G1) COMPILER PROGRAM PRODUCT LISTING MICROFICHE PROGRAM NUMBER 5734-F02
LYC7-5022-0			SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY (MOD I) PROGRAM PRODUCT MICROFICHE - PROGRAM NUMBER 5734-LM1
LYC7-5023-0			SYSTEM/360 OPERATING SYSTEM AMERICAN NATIONAL STANDARD (ANS) COBOL VERSION 3 LISTINGS - PROGRAM NUMBER 5734-CB1
LYC7-5030-0			SYSTEM/360 DISK OPERATING SYSTEM ANS COBOL COMPILER VERSION 3 PROGRAM LISTING MICROFICHE PROGRAM NUMBER 5736-CB2

LYC7-5031-0	LNC7-5031		SYSTEM/360 DISK OPERATING SYSTEM ANS COBOL LIBRARY VERSION 3 PROGRAM PRODUCT LISTING MICROFICHE PROGRAM NUMBER 5736-LH2
LYC7-5032-0			SYSTEM/360 TIME SHARING OPTION FORTRAN PROMPTER VERSION 7 PROGRAM NUMBER 5734-CF3
LYC7-5033-0			SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION INTERACTIVE TERMINAL FACILITY (PL/I ONLY) PROGRAM PRODUCT LISTING MICROFICHE PROGRAM NUMBER 5734-RC2
LYC7-5034-0			SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION INTERACTIVE TERMINAL FACILITY (BASIC ONLY) PROGRAM PRODUCT LISTING MICROFICHE - PROGRAM NUMBER 5734-RC4
LYC7-5035-0	LNC7-5035		SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION INTERACTIVE TERMINAL FACILITY (SHARED) PROGRAM PRODUCT LISTING MICROFICHE PROGRAM NUMBERS 5734-RC2, 5734-RC4
LYC7-5036-0	LNC7-5036		SYSTEM/360 OPERATING SYSTEM FORTRAN IV CODE AND GO PROGRAM NUMBER 5734-FO1
LYC7-5037-0			SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION ASSEMBLER PROMPTER PROGRAM PRODUCT MICROFICHE LISTING PROGRAM NUMBER 5734-CF2
LYC7-5038-1			SYSTEM/360 OPERATING SYSTEM FULL ANS COBOL COMPILER VERSION 3 LISTINGS - PROGRAM NUMBER 5734-CB1
LYC7-5039-0			SYSTEM/360 OPERATING SYSTEM FULL COBOL COMPILER VERSION 3/TIME SHARING OPTION COBOL PROMPTER PROGRAM NUMBER 5734-CB3
LYC7-5040-0			IBM SYSTEM/360 OPERATING SYSTEM - TIME SHARING OPTION COBOL PROMPTER - PROGRAM NUMBERS 5734-CP1, 5734-CB3
LYC7-5041-2			SYSTEM/360 DISK OPERATING SYSTEM SUBSET ANS COBOL COMPILER AND LIBRARY - MICROFICHE - PROGRAM PRODUCT 5736-CB1
LYC7-5042-0			SYSTEM/360 OPERATING SYSTEM FORTRAN H EXTENDED PLUS MICROFICHE - PROGRAM NUMBER 5799-AW
**LYC7-5044-0			DOS FORTRAN IV LIBRARY OPTION I - MICROFICHE - PROGRAM NUMBER 5746-LM3
**LY12-5000-0			IBM SYSTEM/360 AND SYSTEM/370, STORAGE AND INFORMATION RETRIEVAL SYSTEM (STAIRS), PROGRAM LOGIC MANUAL VOL. I NARRATIVES - PROGRAM PRODUCT 5734-XR3
LY19-0007-0			IBM SYSTEM/360 RESOURCE ALLOCATION (REAL/360) FOR PROJECT CONTROL SYSTEM/360 LISTINGS MANUAL (PROGRAM NO. 5736-XP2, FEATURE CODE 0017)
LY19-1004-0*			SYSTEM/360 AND SYSTEM/370 DECISION TABLE TRANSLATOR (DECTAT) FOR COBOL AND PL/I, SYSTEM MANUAL PROGRAM NUMBER 5734-XR2
LY19-2001-0			IBM VEHICLE SCHEDULING PROGRAM -- EXTENDED (OS AND DOS) PROGRAM LOGIC MANUAL, VOLUME I, NARRATIVE PROGRAM NUMBERS 5734-XM5 (OS), 5736-XM3 (DOS)
LY19-2006-0			IBM VEHICLE SCHEDULING PROGRAM -- EXTENDED (OS AND DOS) PROGRAM LOGIC MANUAL, VOLUME II, FLOWCHARTS PROGRAM NUMBERS 5734-XM5 (OS), 5736-XM3 (DOS)
LY19-7000-0			CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) LOGIC MANUAL - PROGRAM NUMBER 5734-XS9, FEATURE NUMBER 8143
LY19-7001-0			CONTINUOUS SYSTEM MODELING PROGRAM III (CSMP III) GRAPHIC FEATURE LOGIC MANUAL - PROGRAM NUMBER 5734-XS9 FEATURE NUMBER 8144
GY20-0042-1			SYSTEM/360 DATA CONVERSION UTILITY III, VERSION 2 - SYSTEM MANUAL PROGRAM NUMBER 360A-SE-26X
GY20-0062-1#	GY20-0356		SYSTEM/360 FLOWCHART SYSTEM MANUAL PROGRAM NUMBER 360A-SE-22X
GY20-0062-0#	GY20-0400	GY20-0506	MATHEMATICAL PROGRAMMING SYSTEM/360 VERSION 2 SYSTEM MANUAL PROGRAM NUMBER 360A-CO-14X
GY20-0065-2	GY20-0400		SYSTEM/360 DATA CONVERSION UTILITIES II, VERSION 2 (SEQUENTIAL, DIRECT ACCESS) SYSTEM MANUAL PROGRAM NUMBER 360A-SE-20X
GY20-0067-1	**GN20-2774		SYSTEM/360 ONLINE TELLER PROGRAM WITH BACKGROUND PROCESSING CAPABILITY SYSTEM'S MANUAL, PROGRAM NUMBER 360A-FB-16X
GY20-0071-1	GN20-2206		GENERAL PURPOSE SIMULATION SYSTEM/360 SYSTEM MANUAL PROGRAM NUMBERS 360A-CS-17X, 360A-CS-19X
GY20-0075-0			APT S/360 SYSTEMS MANUAL, PROGRAM NUMBER 360A-CN-10X
GY20-0080-2			PROJECT MANAGEMENT SYSTEM/360 VERSION 2 NETWORK PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 360A-CP-04X
GY20-0083-2			PROJECT MANAGEMENT SYSTEM/360 VERSION 2 COST PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 360A-CP-04X
GY20-0084-2			PROJECT MANAGEMENT SYSTEM VERSION 2, REPORT PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 360A-CP-04X
GY20-0085-2			SYSTEM/360 SCIENTIFIC SUBROUTINE PACKAGE VERSION 3 SYSTEM MANUAL PROGRAM NUMBER 360A-CN-030
GY20-0092-2			SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR DOS/360 SYSTEM MANUAL PROGRAM NUMBER 360A-SE-32X
GY20-0096-0	GY20-0299		SYNCHRONOUS TRANSMIT-RECEIVE ACCESS METHOD FOR OS/360 SYSTEM MANUAL PROGRAM NUMBER 360A-SE-33X
GY20-0097-0	GY20-0298	GY20-0159	SYSTEM/360 BILL OF MATERIAL PROCESSOR VERSION 2 SYSTEM MANUAL PROGRAM NUMBER 360A-ME-06X
GY20-0099-1#	GY20-0221		SYSTEM/360 REMOTE ACCESS COMPUTING SYSTEM (RAX) VERSION 3 SYSTEM MANUAL PROGRAM NUMBER 360A-CX-17X
GY20-0099-0#	GY20-0210	GY20-0352	1400 AUTOCODER TO COBOL CONVERSION AID PROGRAM OPERATOR'S MANUAL PROGRAM NUMBER 360A-SE-19X
GY20-0101-2	GY20-0476		1400 AUTOCODER TO COBOL CONVERSION AID PROGRAM OPERATOR'S MANUAL PROGRAM NUMBER 360A-SE-19X
GY20-0105-1	GN20-2364		SYSTEM/360 CONTINUOUS SYSTEM MODELING PROGRAM SYSTEM MANUAL PROGRAM NUMBER 360A-CX-16X
GY20-0106-1			IBM SYSTEM/360 PRODUCT STRUCTURE RETRIEVAL SYSTEMS MANUAL PROGRAM NUMBER 360A-ME-07X
GY20-0111-0	GY20-0374	GY20-0258	AD-APT S/360 SYSTEMS MANUAL PROGRAM NUMBER 360A-CN-09X
GY20-0112-0			AUTOSPOT S/360 SYSTEMS MANUAL PROGRAM NUMBER 360A-CN-08X
**GY20-0118-1#	GY20-0150		1400 AUTOCODER TO COBOL CONVERSION AID PROGRAM SYSTEM MANUAL PROGRAM NUMBER 360A-SE-19X
GY20-0118-0#	GY20-0149		PROJECT CONTROL SYSTEM/360 VERSION 2 SYSTEM MANUAL PROGRAM NUMBER 360A-CP-06X
GY20-0119-0			
GY20-0124-1			IBM SYSTEM/360 DOCUMENT PROCESSING SYSTEM SYSTEM MANUAL PROGRAM NUMBER 360A-CX-12X
GY20-0126-2#	GY20-0477	GY20-0379	MEDICAL INFORMATION SYSTEM PROGRAMS (MISP) APPLICATION DESCRIPTION MANUAL PROGRAM NUMBER 360A-UH-08L
GY20-0126-1#	GY20-0549		MEDICAL INFORMATION SYSTEM PROGRAMS (MISP) PROGRAM DESCRIPTION MANUAL PROGRAM NUMBER 360A-UH-08L
GY20-0143-1			MEDICAL INFORMATION SYSTEM PROGRAMS (MISP) OPERATIONS MANUAL PROGRAM NUMBER 360A-UH-08L
GY20-0153-1			SYSTEM/360 VEHICLE SCHEDULING PROGRAM SCHEDULING PRODUCTION AND DISTANCE LISTING SYSTEM MANUAL PROGRAM NUMBER 360A-ST-06X
GY20-0154-1			
GY20-0157-1	GN20-2274		
GY20-0160-0			

GY20-0174-1#			SYSTEM/360 ADMINISTRATIVE TERMINAL SYSTEM DOS (ATS/DOS)
GY20-0174-0#	GN20-2080		SYSTEM MANUAL PROGRAM NUMBER 360A-CX-18X
**GY20-0204-1			PROJECT MANAGEMENT SYSTEM/360 FLOWCHART
			SYSTEM MANUAL PROGRAM NUMBER 360A-CP-04X
GY20-0205-0	GY20-0481		MARVEL/360 SYSTEM MANUAL PROGRAM NUMBER 360A-CO-15X
GY20-0208-0			SYSTEM/360 TEXT PROCESSOR - HYPHENATION/360 SYSTEM MANUAL
			PROGRAM NUMBER 360A-DP-07X
GY20-0209-1			SYSTEM/360 1287 INPUT CONVERSION PROGRAM
			SYSTEM MANUAL PROGRAM NUMBER 360A-DR-07X
GY20-0213-0			STUDENT SCHEDULING SYSTEM/360 THE SCHEDULER PROGRAM
			PROGRAM NUMBER 360A-US-07X
GY20-0215-1	GY20-0428		SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS) SYSTEM MANUAL
			PROGRAM NUMBER 360A-UH-11X
GY20-0227-0	GY20-0370		SYSTEM/360 APT NUMERICAL CONTROL PROCESSOR
			VERSION 3 SYSTEM MANUAL - FLOWCHARTS
			PROGRAM NUMBER 360A-CN-10X
GY20-0230-1#			SYSTEM/360 WHOLESALE IMPACT PROGRAM LIBRARY SYSTEM MANUAL
GY20-0230-0#	GY20-0558		PROGRAM NUMBERS 360A-DW-05X, 360V-DW-06X
GY20-0251-0			SHARED HOSPITAL ACCOUNTING SYSTEM (SHAS)
			TELEPROCESSING SYSTEM MANUAL
			PROGRAM NUMBER 360A-UH-11X
GY20-0256-0			SYSTEM/360 INVENTORY CONTROL SYSTEM MANUAL
			PROGRAM NUMBER 360A-MF-04X
GY20-0261-1#			SYSTEM/360 MATRIX LANGUAGE (MATLAN)
GY20-0261-0#			SYSTEM MANUAL PROGRAM NUMBER 360A-CM-05X
GY20-0263-0			SYSTEM/360 DECISION LOGIC TRANSLATOR SYSTEM MANUAL
			PROGRAM NUMBER 360A-CX-32X
GY20-0267-0			SYSTEM/360 AD-APT/AUTOSPOT (OS) NUMERICAL CONTROL PROCESSOR
			(360A-CN-12X) SYSTEM MANUAL
GY20-0294-1			MATHEMATICAL PROGRAMMING SYSTEM/360 REPORT GENERATOR
			(MPSRG) SYSTEM MANUAL PROGRAM NUMBER 360A-CO-20X
GY20-0305-3			IBM SYSTEM/360 AND SYSTEM/370 ATTACHED SUPPORT PROCESSOR
			SYSTEM (ASP) VERSION 2 SYSTEM MANUAL PROGRAM NUMBER
			360A-CX-15X
GY20-0317-0			SYSTEM/360 REQUIREMENTS PLANNING
			SYSTEM MANUAL PROGRAM NUMBER 360A-MF-05X
GY20-0318-0			SYSTEM/360 TEXT PROCESSOR - COMPOSITION/360
			VOLUME I - FLOWCHART NARRATIVES SYSTEM MANUAL
			PROGRAM NUMBER 360A-DP-08X
GY20-0319-0			SYSTEM/360 TEXT PROCESSOR -- COMPOSITION/360
			VOLUME II -- FLOWCHARTS SYSTEM MANUAL
			PROGRAM NUMBER 360A-DP-08X
GY20-0345-0			SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (DOS/OS)
			VOLUME I - FLOWCHART NARRATIVES SYSTEM MANUAL
			PROGRAM NUMBERS 360A-CX-26X, 360A-CX-27X
GY20-0346-0			SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (DOS/OS)
			VOLUME II - FLOWCHARTS SYSTEM MANUAL
			PROGRAM NUMBERS 360A-CX-26X, 360A-CX-27X
GY20-0350-0			SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (DOS)
			VOLUME III - ASSEMBLY LISTINGS SYSTEM MANUAL
			PROGRAM NUMBER 360A-CX-26X
GY20-0351-0			SYSTEM/360 PROBLEM LANGUAGE ANALYZER (PLAN) (OS)
			VOLUME IV - ASSEMBLY LISTINGS SYSTEM MANUAL
			PROGRAM NUMBER 360A-CX-27X
GY20-0353-0			MATHEMATICAL PROGRAMMING SYSTEM/360 VERSION 2
			FLOWCHART SYSTEM MANUAL
			PROGRAM NUMBER 360A-CO-14X
GY20-0357-0			SYSTEM/360 APT NUMERICAL CONTROL PROCESSOR
			VERSION 4 ASSEMBLY LISTINGS: SYSTEM MANUAL
			PROGRAM NUMBER 360A-CN-10X
GY20-0364-0			SYSTEM/360 PROGRAM FOR OPTICAL SYSTEM DESIGN/II (POSD/II)
			(OS) SYSTEM MANUAL-ASSEMBLY LISTINGS
			PROGRAM NUMBER 360A-EO-15X
GY20-0365-0			SYSTEM/360 PROGRAM FOR OPTICAL SYSTEM DESIGN/II (POSD/II)
			(DOS) SYSTEM MANUAL-ASSEMBLY LISTINGS
			PROGRAM NUMBER 360A-EO-16X
LY20-0369-1#	LN20-2268		CUSTOMER INFORMATION CONTROL SYSTEM OS-STANDARD (CICS/OS),
LY20-0369-0#	LY20-0439		(5736-U11), SYSTEM MANUAL, FEATURE CODE 8805
GY20-0372-1	GN20-2412		COURSEWRITER III FOR SYSTEM/360 VERSION 2 SYSTEM
			PROGRAMMER'S GUIDE PROGRAM NUMBER 360A-UX-01X
GY20-0394-0			PLAN GRAPHICS SUPPORT FOR THE IBM 2250 ON SYSTEM/360 (OS)
			SYSTEM MANUAL
			PROGRAM NUMBER 360A-CX-34X
GY20-0405-0			LINEAR PROGRAMMING SYSTEM/360 (LPS/360) SYSTEM MANUAL
			PROGRAM NUMBER 360A-CO-18X
LY20-0406-0			SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE - OS
			SYSTEM MANUAL
			PROGRAM NUMBER 5736-P71 - FEATURE CODE 8101
LY20-0407-0			SYSTEM/360 ARRAY PROCESSING SUBROUTINE PACKAGE -
			PS SYSTEM MANUAL
			PROGRAM NUMBER 5736-P71 FEATURE CODE 8101
LY20-0415-0	LN20-2103		ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2
			POLICY EXHIBIT UPDATE PROGRAM SYSTEM MANUAL
			PROGRAM NUMBER 5736-N11
LY20-0416-0	LY20-0522	**LN20-2538	ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2
			VALUATION UPDATE PROGRAM SYSTEM MANUAL
			PROGRAM NUMBER 5736-N11
LY20-0417-0	LN20-2102	LY20-0523	ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2
	**LN20-2539		POLICY MASTER RECORD FILE INVENTORY PROGRAM SYSTEM MANUAL
			(PROGRAM NUMBER: 5736-N11) (FEATURE CODE: 8811)
LY20-0418-0	LN20-2101	LY20-0524	ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2
	**LN20-2540		FINANCIAL VALUE PROGRAM SYSTEM MANUAL
			(PROGRAM NUMBER: 5736-N11) (FEATURE CODE 8812)
LY20-0419-0	LY20-0525		ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2
			VALUATION SUMMARY PROGRAM SYSTEM MANUAL
			(PROGRAM NUMBER 5736-N11) (FEATURE CODE 8813)
LY20-0420-0			ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2
			POLICY EXHIBIT BALANCE PROGRAM SYSTEM MANUAL
			PROGRAM NUMBER 5736-N11
LY20-0421-0	LY20-0526		ADVANCED LIFE INFORMATION SYSTEM (DOS) VERSION 2
			POLICY EXHIBIT AND VALUATION INCLUDE (R) AND CALL (S)
			ROUTINES SYSTEM MANUAL
			PROGRAM NUMBER 5736-N11
**LY20-0422-1			SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC)
			SYSTEM MANUAL VOLUME 1
			PROGRAM NUMBER 5736-CX1 FEATURE CODE 8801
LY20-0423-1#			SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC) SYSTEM/360
LY20-0423-0#			GENERALIZED INFORMATION SYSTEM SYSTEM MANUAL VOLUME II
			PROGRAM NUMBER 5736-CX1 FEATURE CODE 8803
LY20-0424-1#			SYSTEM/360 GENERALIZED INFORMATION SYSTEM (BASIC)
LY20-0424-0#	LY20-0500	LY20-0574	SYSTEM/360 GENERALIZED INFORMATION SYSTEM
			SYSTEM MANUAL VOLUME III
			PROGRAM NUMBER 5736-CX1
LY20-0425-0	LY20-0498	LY20-0572	SYSTEM/360 GENERALIZED INFORMATION SYSTEM
			SYSTEM MANUAL VOLUME 1
			PROGRAM NUMBER 5736-CX1 FEATURE CODE 8802

LY20-0431-1	LN20-2342		INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360 SYSTEM MANUAL VOLUME I - PROGRAM LOGIC PROGRAM NUMBER 5736-CX3 FEATURE CODE 8801
LY20-0432-0	LN20-2346		INFORMATION MANAGEMENT SYSTEM/360 FOR THE IBM SYSTEM/360 SYSTEM MANUAL VOLUME II - FLOWCHARTS PROGRAM NUMBER 5736-CX3 FEATURE CODE 8802
LY20-0455-0			GRAPHIC ANALYSIS OF THREE-DIMENSIONAL DATA (GATD) SYSTEM MANUAL - VOLUME I PROGRAM NUMBER 5734-XX2 FEATURE CODE 8101
LY20-0456-0			PROJECT MANAGEMENT SYSTEM/360: VERSION 3, RESOURCE ALLOCATION PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 5734-XP1 FEATURE CODE 8104
LY20-0457-1*			PROJECT MANAGEMENT SYSTEM/360 VERSION 3 NETWORK PROCESSOR SYSTEM MANUAL, PROGRAM NUMBER: 5734-XP1 FEATURE CODE: 8101
LY20-0457-0#	LY20-0547		
LY20-0459-0			PROJECT MANAGEMENT SYSTEM/360: VERSION 3, COST PROCESSOR - SYSTEM MANUAL PROGRAM NUMBER 5734-XP1 FEATURE CODE 8102
LY20-0460-0			PROJECT MANAGEMENT SYSTEM/360 VERSION 3 FLOWCHART SYSTEM MANUAL PROGRAM NUMBER: 5734-XP1 FEATURE CODE: 8105
LY20-0461-0	LN20-2175	LN20-2264	PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) HOMEBOWNERS PREMIUM PROCESSING PROGRAM DESCRIPTION AND SYSTEM MANUAL AND SYSTEM MANUAL (FEATURE CODE 8001)
LY20-0462-0			PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) HOMEBOWNERS CLAIMS PROCESSING PROGRAM DESCRIPTION AND SYSTEM MANUAL PROGRAM NUMBER 5736-N21 FEATURE CODE 8002
LY20-0467-0	**LY20-0548		PROJECT MANAGEMENT SYSTEM/360 VERSION 3: REPORT PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 5734-XP1 FEATURE CODE 8101
LY20-0473-0			RIGID FRAME SELECTION PROGRAM (RFSP) VOLUME 3 - COMPILATION LISTINGS SYSTEM MANUAL PROGRAM NUMBER 5734-EC1 FEATURE CODE 8501
LY20-0474-0			RIGID FRAME SELECTION PROGRAM (RFSP) VOLUME 4 - COMPILATION LISTINGS SYSTEM MANUAL PROGRAM NUMBER 5736-EC1 FEATURE CODE 8501
LY20-0475-0	LY20-0550		GENERAL PURPOSE SIMULATION SYSTEM/360 OS: VERSION 2 - SYSTEM MANUAL PROGRAM NUMBER 5734-XS1 FEATURE CODE 8151
LY20-0479-0			LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM (LEMNAS) SYSTEM MANUAL VOLUME I (PROGRAM NUMBER 5736-G21 FEATURE CODE 8400)
LY20-0480-1			SHAS COMPATIBLE TELEPROCESSING SUPPORT FOR 2780, 2740, AND 1050 TERMINALS SYSTEM REFERENCE MANUAL PROGRAM PRODUCT 5736-H13, FEATURE CODE 8000
LY20-0483-0	LY20-0551		GENERAL PURPOSE SIMULATION SYSTEM/360 DOS VERSION 2 SYSTEM MANUAL PROGRAM NUMBER 5736-XS1 FEATURE CODE 8101
LY20-0489-0			SYSTEM/360 TEXT PROCESSOR -- EDIT/360 (DOS) SYSTEM MANUAL VOLUME I - FLOWCHART NARRATIVES PROGRAM NUMBER 5736-K11
LY20-0490-0			SYSTEM/360 TEXT PROCESSOR -- EDIT/360 (DOS) SYSTEM MANUAL VOLUME II - FLOWCHARTS PROGRAM NUMBER 5736-K11
LY20-0493-0	LY20-0552		DATA/360 DOS PRELIMINARY VERSION PROGRAM NUMBER 5736-XS2 FEATURE CODE 8018
LY20-0495-0	LN20-2344	LN20-2496	COURSEWRITER III FOR SYSTEM/360 (OS) VERSION 2 PROGRAMMER'S GUIDE PROGRAM NUMBER 5734-E12 FEATURE CODE 8000
LY20-0496-0	LY20-0806		SYSTEM/360 ORDER ALLOCATION SYSTEM SYSTEM MANUAL PROGRAM NUMBER 5736-D41
GY20-0504-0	GY20-0545		IBM SYSTEM/360 CONVERSATIONAL PROGRAMMING SYSTEM (CPS): PROGRAM LOGIC MANUAL PROGRAM NUMBER 360D-03.4.016
LY20-0509-0			IBM SYSTEM/360 OS LEARN ADMINISTRATIVE TERMINAL SYSTEM SYSTEM MANUAL PROGRAM NUMBER 5734-XX8 FEATURE CODE 8053
LY20-0510-0			IBM SYSTEM/360 DOS LEARN ADMINISTRATIVE TERMINAL SYSTEM SYSTEM MANUAL PROGRAM NUMBER 5736-XX3 FEATURE CODE 8054
LY20-0520-0			OS/360 INVENTORY CONTROL SYSTEM MANUAL PROGRAM NUMBER 5736-M52 FEATURE CODE 8011
GY20-0529-1			CALL/360-OS EXECUTIVE AND UTILITIES SYSTEM MANUAL PROGRAM NUMBER 360A-CX-42X
GY20-0530-0	GN20-2295		CALL/360 - OS BASIC SYSTEM MANUAL PROGRAM NUMBER 360A-CX-42X
GY20-0531-0	GN20-2294		CALL/360-OS FORTRAN SYSTEM MANUAL PROGRAM NUMBER 360A-CX-42X
LY20-0535-0	LN20-2318		SYSTEM/360 CAPACITY PLANNING - INFINITE LOADING SYSTEM MANUAL PROGRAM NUMBER 5736-M11 FEATURE CODE 8021
LY20-0536-0	LN20-2317		SYSTEM/360 CAPACITY PLANNING-FINITE LOADING SYSTEM MANUAL PROGRAM NUMBER 5736-M12 FEATURE CODE 8022
LY20-0537-0			SYSTEM/360 REQUIREMENTS PLANNING INTERFACE SYSTEM MANUAL PROGRAM NUMBER 5736-M13
LY20-0543-0	LN20-2290		OS/360 REQUIREMENTS PLANNING SYSTEM MANUAL PROGRAM NUMBER 5734-M51
LY20-0546-0	LN20-2509		SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC UTILITY INDUSTRY POWER FLOW SYSTEM MANUAL - VOLUME III PROGRAM NUMBER 5736-U12 FEATURE CODE 8172
LY20-0553-1	LN20-2508		SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR ELECTRIC UTILITY INDUSTRY - SHORT CIRCUIT SYSTEM MANUAL PROGRAM NUMBER 5736-U12
LY20-0554-0	LN20-2510		SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC UTILITY INDUSTRY TRANSIENT STABILITY SYSTEM MANUAL - VOLUME IV PROGRAM NUMBER 5736-U12 FEATURE CODE 8173
LY20-0555-1	LN20-2507		SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC UTILITY INDUSTRY ENGINEERING DATA MANAGEMENT SERVICES SYSTEM MANUAL - VOLUME I PROGRAM NUMBER 5736-U12 FEATURE CODE 8174
LY20-0559-0			TARIFF PUBLISHING SYSTEM (BOUND TARIFFS) SYSTEM MANUAL PROGRAM NUMBER 5736-T21, FEATURE CODE 8003
LY20-0560-0			TRAFFIC PROFILE ANALYSIS SYSTEM SYSTEM MANUAL PROGRAM NUMBER 5736-T22
LY20-0561-0			MEDICAL INFORMATION SYSTEMS PROGRAM (MISP) VERSION 2 SYSTEM MANUAL - PROGRAM PRODUCT 5736-H11 FEATURE CODE 8500
LY20-0565-0	LY20-0672		SYSTEM/360 SHOP FLOOR CONTROL 5736-M31 SYSTEM MANUAL
LY20-0566-0			IBM SYSTEM/360 DATA BASE ORGANIZATION AND MAINTENANCE PROCESSOR SYSTEM MANUAL PROGRAM NUMBER 5736-XX4
GY20-0567-1			CALL/#()-OS PL/I SYSTEMS MANUAL VOLUME 1
GY20-0568-0			CALL/360-OS PL/I SYSTEM MANUAL VOLUME II
GY20-0569-0			CALL/360-OS PL/I SYSTEM MANUAL VOLUME III PROGRAM NUMBER 360A-CX-42X
GY20-0570-1			CALL/360 OS PL/I SYSTEM MANUAL VOLUME 4
GY20-0575-1			IBM SYSTEM/360 DOS POWER II, SYSTEM MANUAL PROGRAM NUMBER 360D-05.2.006
GY20-0576-2			IBM SYSTEM/360 DOS POWER II, REMOTE JOB ENTRY, SYSTEM MANUAL PROGRAM NUMBER 360D-05.2.006

LY20-0579-0			SYSTEM/360 AGRIBUSINESS MANAGEMENT INFORMATION SYSTEM
LY20-0587-0			SYSTEM MANUAL FEATURE CODE 8012 PROGRAM NUMBER 5736-D51
			PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS)
			ADDITIONAL FILE FACILITY (2314) SYSTEMS REFERENCE MANUAL
			PROGRAM NUMBER 5736-N22, FEATURE CODE 8007
GY20-0590-1#	GN20-2502		CP-67 VERSION 3 PROGRAM LOGIC MANUAL
GY20-0590-0#			PROGRAM NUMBER 360D-05.2.005
GY20-0591-1	GN20-2503		CONTROL PROGRAM - 67/CAMBRIDGE MONITOR SYSTEM
			(CD-67/CMS) - PROGRAM NUMBER 360D-05.2.005
			PROGRAM LOGIC MANUAL
LY20-0595-0	LN20-2464		IBM SYSTEM/360 FILING AND SOURCE DATA ENTRY TECHNIQUES
			FOR EASIER RETRIEVAL-LOW CORE (PASTER LC)
			5736-G22 SYSTEM MANUAL
LY20-0596-0	LN20-2280		GENERAL PURPOSE SIMULATION SYSTEM V-05 (GPSS V-05)
			SYSTEM MANUAL, PROGRAM NUMBER 5734-XS2 FEATURE CODE 8101
GY20-0597-0			COMPATIBILITY OPERATING SYSTEM FOR EMULATION
			OF IBM 1410/7010 DATA PROCESSING SYSTEMS
			OPERATING ON IBM SYSTEM/360 MODEL 50
			(COS/50) (360D-11.1.025) PROGRAM LOGIC MANUAL
GY20-0599-0			THE REAL-TIME MONITOR (RTM) SYSTEM MANUAL,
			PROGRAM NUMBER 360A-SV-001
LY20-0601-0	LN20-2398	LN20-2477	DATA/360 - DOS SYSTEM MANUAL
			PROGRAM NUMBER 5736-XS2, FEATURE CODE 8018
LY20-0602-0	LN20-2279		GENERAL PURPOSE SIMULATION SYSTEM V - DOS SYSTEM MANUAL,
			PROGRAM NUMBER 5736-XS3 FEATURE CODE 8101
LY20-0604-0			CUSTOMER INFORMATION CONTROL SYSTEM, OS-STANDARD (CICS/OS)
			(5736-U11), LANGUAGE AND TERMINAL (L/T) FEATURE
			SYSTEM MANUAL, FEATURE CODE 8060
LY20-0606-0			SYSTEM/360 FINANCIAL TERMINAL SYSTEM
			SYSTEM MANUAL, VOLUME I: FLOWCHART NARRATIVES
			PROGRAM NUMBER 5736-F12, FEATURE CODE 8026
LY20-0607-0			SYSTEM/360 FINANCIAL TERMINAL SYSTEM
			SYSTEM MANUAL VOLUME II: FLOWCHARTS
			PROGRAM NUMBER 5736-F12 FEATURE CODE 8026
LY20-0608-0			FORTRAN CONVERSION AID PROGRAM (SYSTEM MANUAL,
			PROGRAM NUMBER 5799-AAJ, FEATURE CODE 8001,
			REFERENCE NUMBER FA1207
LY20-0609-0			PROJECT MANAGEMENT SYSTEM IV (PMS IV)
			PROGRAM NUMBER 5734-XP4, FEATURE NUMBER 8074
			COST PROCESSOR SYSTEM MANUAL
LY20-0610-0			PROJECT MANAGEMENT SYSTEM IV (PMS IV)
			PROGRAM NUMBER 5734-XP4 - FEATURE NUMBER 8071
			NETWORK PROCESSOR SYSTEM MANUAL
LY20-0611-0			PROJECT MANAGEMENT SYSTEM IV (PMSIV)
			RESOURCE ALLOCATION PROCESSOR SYSTEM MANUAL
			PROGRAM NUMBER 5734-XP4, FEATURE CODE 8077
LY20-0612-0	**LN20-2757		PROJECT MANAGEMENT SYSTEM IV (PMS IV)
			PROGRAM NUMBER 5734-XP4 - FEATURE NUMBER 8068
			REPORT PROCESSOR SYSTEM MANUAL
LY20-0613-0			PROJECT MANAGEMENT SYSTEM IV (PMSIV)
			COST PROCESSOR FLOWCHART MANUAL
			PROGRAM NUMBER 5734-XP4, FEATURE CODE 8075
LY20-0614-0			PROJECT MANAGEMENT SYSTEM IV (PMSIV)
			NETWORK PROCESSOR FLOWCHART MANUAL
			PROGRAM NUMBER 5734-XP4, FEATURE CODE 8072
LY20-0615-0			PROJECT MANAGEMENT SYSTEM IV (PMSIV) RESOURCE
			ALLOCATION PROCESSOR FLOWCHART MANUAL PROGRAM
			NUMBER 5734-XP4, FEATURE CODE 8078
LY20-0616-0			PROJECT MANAGEMENT SYSTEM IV (PMSIV)
			REPORT PROCESSOR FLOWCHART MANUAL
			PROGRAM NUMBER 5734-XP4, FEATURE CODE 8069
LY20-0621-0	**LN20-2755		CONSUMER GOODS SYSTEM (COGS), FORECASTING (OS),
			SYSTEM MANUAL, PROGRAM NUMBER 5734-D33
LY20-0622-0			CONSUMER GOODS SYSTEM (COGS) ALLOCATION (OS) SYSTEM MANUAL
			PROGRAM NUMBER 5734-D32
LY20-0623-0			SYSTEM/360 TEXT PROCESSOR PAGINATION/360, SYSTEM MANUAL,
			VOLUME I - FLOWCHART NARRATIVES - PROGRAM NUMBER 5736-K12,
			FEATURE CODE 8010
LY20-0624-0			SYSTEM/360 TEXT PROCESSOR PAGINATION/360, SYSTEM MANUAL,
			VOLUME II - FLOWCHARTS - PROGRAM NUMBER 5736-K12,
			FEATURE CODE 8011
LY20-0628-0	LN20-2448		SYSTEM/360 ACTIVE CERTIFICATE INFORMATION PROGRAM
			SYSTEM MANUAL - PROGRAM NUMBER 5736-F32 FEATURE NUMBER 8033
**LY20-0629-2			INFORMATION MANAGEMENT SYSTEM/360, VERSION 2
			PROGRAM NUMBER 5734-XX6
**LY20-0630-1			SYSTEM MANUAL - LOGIC VOLUME I, FEATURE CODE 8000
			INFORMATION MANAGEMENT SYSTEM/360, VERSION 2, VOLUME 2,
			SYSTEM MANUAL (FLOWCHARTS), MICROFICHE
			PROGRAM NUMBER 5734-XX6, FEATURE CODE 8001
LY20-0634-0			DISPLAY MANAGEMENT SYSTEM, SYSTEM MANUAL
			PROGRAM NUMBER 5734-XC1, FEATURE CODE 8005
LY20-0635-0			CONTROL PROGRAM-67 ONLINE COBOL SYMBOLIC DEBUG
			SYSTEM MANUAL
			PROGRAM NUMBER 5799-AEE, FEATURE NUMBER 8006
LY20-0638-0	LN20-2444	LN20-2556	DATA/360-OS SYSTEM MANUAL
			PROGRAM NUMBER 5734-XS3, FEATURE CODE 8007
LY20-0640-0			MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX)
			MIXED INTEGER PROGRAMMING (MIP) - SYSTEM MANUAL
			PROGRAM NUMBER 5734-XM4, FEATURE NUMBER 8056
LY20-0641-0			MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX),
			MIXED INTEGER PROGRAMMING (MIP) FLOWCHART MANUAL,
			PROGRAM NUMBER 5734-XM4, FEATURE CODE 8057
LY20-0642-0			MATHEMATICAL PROGRAM SYSTEM EXTENDED (MPSX) FLOWCHART MANUAL
			PROGRAM NUMBER 5734-XM4, FEATURE CODE 8055
LY20-0646-0	LN20-2417		MATHEMATICAL PROGRAMMING SYSTEM EXTENDED (MPSX)
			SYSTEM MANUAL, PROGRAM NUMBER 5734-XM4, FEATURE CODE 8056
LY20-0649-0			IBM CLINICAL LABORATORY MANAGEMENT SYSTEM - SYSTEM MANUAL
			PROGRAM PRODUCT 5718-H12
LY20-0655-0			SHARED LABORATORY INFORMATION SYSTEM (SLIS) SYSTEM MANUAL
			PROGRAM PRODUCT 5736-H12
LY20-0656-0	LN20-2421		IBM SYSTEM/360 BASIC COURTS SYSTEM, SYSTEM MANUAL
			PROGRAM NUMBER 5736-G26
LY20-0661-0	LN20-2348		COMPUTER SYSTEM SIMULATOR II (CSS II), SYSTEM MANUAL
			PROGRAM NUMBER 5734-XS5, FEATURE CODE 8035
LY20-0663-1			FARE QUOTE/TICKETING FUNCTIONAL SPECIFICATION
			PROGRAM NUMBER 5736-T11
LY20-0664-0	LN20-2493	LN20-2550	FARE QUOTE/ISSUE TICKET PROGRAM AND PACKAGE SPECIFICATIONS
			PROGRAM NUMBER 5736-T11
LY20-0665-0	LN20-2494		TARIFF MAINTENANCE PROGRAM AND PACKAGE SPECIFICATIONS
			PROGRAM NUMBER 5736-T11
LY20-0666-0	LN20-2492		FARE QUOTE/TICKETING DATA/MACRO SPECIFICATION
			PROGRAM NUMBER 5736-T11
LY20-0670-0			CLINICAL LABORATORY MANAGEMENT SYSTEM (CLMS) MPX FEATURE
			CONVERSION FEATURE - PROGRAM PRODUCT 5718-H12,
			FEATURE CODE 8007
LY20-0671-0			PROCEDURE LIBRARY - MATHEMATICS (PL-MATH) SYSTEM MANUAL
			PROGRAM NUMBER 5734-XM3 FEATURE NUMBER 8051
LY20-0674-0			MINIPERT SYSTEM MANUAL, FEATURE NUMBER 8006
			PROGRAM NUMBER 5734-XP3

LY20-0678-0		APL/360-OS AND APL/360-DOS SYSTEM MANUAL FEATURE NUMBERS 8091, 8034
LY20-0679-0		PROGRAM NUMBERS 5734-XM6, 5736-XM6 COURSEWRITER III, VERSION 3 DISK OPERATING SYSTEM
LY20-0681-0		SYSTEM PROGRAMMER'S GUIDE - PROGRAM NUMBER 5736-E11
LY20-0682-0		CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOLII)
LY20-0683-0		SYSTEM MANUAL - VOLUME I - PROGRAM NUMBER 5736-N13
LY20-0684-0		CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOLII), SYSTEM MANUAL - VOLUME II - PROGRAM NUMBER 5736-N13
LY20-0685-0		CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOLII), SYSTEM MANUAL - VOLUME III - PROGRAM NUMBER 5736-N13
LY20-0686-0		CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOLII), SYSTEM MANUAL - VOLUME IV - PROGRAM NUMBER 5736-N13
LY20-0687-0		CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOLII), SYSTEM MANUAL - VOLUME V - PROGRAM NUMBER 5736-N13
LY20-0691-0		CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOLII), SYSTEM MANUAL - VOLUME VI - PROGRAM NUMBER 5736-N13
LY20-0692-0		CONSOLIDATED FUNCTIONS ORDINARY SYSTEM II (CFOLII), SYSTEM MANUAL - VOLUME VII - PROGRAM NUMBER 5736-N13
LY20-0693-0	LN20-2511	COURSEWRITER III/OS VERSION 3 SYSTEM PROGRAMMERS GUIDE PROGRAM NUMBER 5734-E12
LY20-0694-0		ELECTRONIC CIRCUIT ANALYSIS PROGRAM II (ECAP II) FOR THE IBM OPERATING SYSTEM AND 1130 COMPUTING SYSTEM - SYSTEM MANUAL FEATURE NUMBER 8095 - PROGRAM NUMBERS 5734-EE1, 5711-EE1
LY20-0696-0	**LN20-2599	SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC UTILITY INDUSTRY, POWER FLOW OUTPUT AND CAPACITY FEATURE SYSTEM MANUAL, VOLUME V - PROGRAM NUMBER (5736-U12)
LY20-0697-0	**LN20-2598	BROKERAGE ACCOUNTING SYSTEM ELEMENTS (BASE) VERSION 2 SYSTEM MANUAL - PROGRAM NUMBER 5736-F31, FEATURE 8005
LY20-0698-0	**LN20-2597	GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL VOLUME 1 - PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8115
LY20-0699-0		GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL VOLUME 2 - PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8116
LY20-0700-0		GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL VOLUME 3 - PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8117
LY20-0701-0		IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE ARITHMETIC STATEMENT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8125
LY20-0702-0		IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE TELEPROCESSING SUPPORT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8123
LY20-0703-0	**LN20-2596	IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE CONTROL STATEMENT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8124
LY20-0704-0	**LN20-2595	IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE PROCESSING STATEMENT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8126
LY20-0705-0	**LN20-2593	IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE FORMAL REPORT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8119
LY20-0706-0		IBM GENERALIZED INFORMATION SYSTEM VOLUME 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE HIERARCHIC FILE SUPPORT FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8120
LY20-0707-0		IBM GENERALIZED INFORMATION SYSTEM VOLUME 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE FILE UPDATE AND CREATE FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8118
LY20-0708-0	**LN20-2594	IBM GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE UTILITY FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8121
LY20-0710-0		IBM GENERALIZED INFORMATION SYSTEM VOLUME 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE EDIT AND ENCODE FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8122
**LY20-0712-1		IBM GENERALIZED INFORMATION SYSTEM VOLUME 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE FILE MODIFY FEATURE PROGRAM NUMBER 5734-XX1 FEATURE NUMBER 8127
**LY20-0713-1		PLANNING SYSTEMS GENERATOR II (PSG II) LOGIC MANUAL PROGRAM NUMBER 5734-XT1 FEATURE NUMBER 8114
LY20-0714-1	**LN20-2803	CUSTOMER INFORMATION CONTROL SYSTEM FEATURE NUMBER 8030 (DOS-ENTRY) LOGIC MANUAL - PROGRAM NUMBER 5736-XX6
LY20-0716-0		CUSTOMER INFORMATION CONTROL SYSTEM (CICS) LOGIC MANUAL PROGRAM NUMBER 5736-XX7 (DOS-STANDARD) FEATURE NUMBER 8031
LY20-0717-0		CUSTOMER INFORMATION CONTROL SYSTEM (CICS) OPERATING SYSTEM STANDARD VERSION 2 - FEATURE NUMBER 8142 - LOGIC MANUAL PROGRAM NUMBER 5734-XX7
LY20-0726-0		IBM DISK OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR EASIER RETRIEVAL - MULTITHREAD (DOS FASTER MT) - SYSTEM MANUAL - PROGRAM NUMBER 5736-G24
LY20-0728-0		IBM FASHION REPORTER PROGRAM PRODUCT SYSTEM MANUAL PROGRAM NUMBER 5736-D11
LY20-0733-0		SYSTEM/360 POWER SYSTEM PLANNING (PSP) FOR THE ELECTRIC UTILITY INDUSTRY SHORT CIRCUIT R0 FEATURE - SYSTEM MANUAL VOLUME VI, FEATURE 8103 - PROGRAM NUMBER 5736-U12
GY20-0738-0		STAT/BASIC FOR INTERACTIVE TERMINAL FACILITY LOGIC MANUAL FEATURE NUMBER 8100 - PROGRAM NUMBER 5734-XA3
LY20-0743-0		BILL PROCESSOR SYSTEMS - IMS/360 BRIDGE, SYSTEM MANUAL PROGRAM NUMBER 5734-XX9
LY20-0746-0	**LN20-6086	OS/MVT WITH RESOURCE SECURITY - LOGIC MANUAL PROGRAM NUMBER 360A-SV-007 TYPE 1 EXTENSION
**LY20-0749-0		AN APL (OS OR DOS) TEXT EDITOR AND COMPOSER: SYSTEM GUIDE PROG. NO. 5796-PAC, FEATURE NO. 8009
**LY20-0750-0		APL/PDTS PROGRAMMING DEVELOPMENT TRACING SYSTEM - PDTS IUP - SYSTEMS GUIDE - PROGRAM NUMBER 5796-PAD
**LY20-0751-0		FLIGHT DATA DISPLAY SYSTEM FUNCTION SPECIFICATIONS FLIGHT DATA DISPLAY SYSTEM PACKAGE/PROGRAM SPECIFICATIONS IUP PROGRAM NO. 5796-PAE
LY20-0787-0		FLIGHT DATA DISPLAY SYSTEM DATA/MACRO/FILE SPECIFICATIONS IUP PROGRAM NO. 5796-PAE
LY20-0788-0		IBM OPERATING SYSTEM FILING AND SOURCE DATA ENTRY TECHNIQUES FOR FASTER RETRIEVAL MULTITHREAD (OS FASTER MT) - LOGIC MANUAL - PROGRAM NUMBER 5734-G21 - FEATURE CODE 8059
LY20-0792-0		PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) AUTOMOBILE ENHANCEMENTS - PROGRAM NUMBER 5736-N24
LY20-0793-0		SYSTEM REFERENCE MANUAL
LY20-0800-0		BUDGET ACCOUNTING INFORMATION SYSTEM (BACIS) FOR PUBLIC INSTITUTIONS - LICENSED PROGRAM PRODUCT MANUAL PROGRAM NUMBER 5736-G25
LY20-0804-0		MARKETABLE SECURITIES INVENTORY SYSTEM - LOGIC MANUAL PROGRAM NUMBER 5799-ABY
		PROPERTY AND LIABILITY INFORMATION SYSTEM (PALIS) HOME OWNERS ENHANCEMENTS - SYSTEM REFERENCE MANUAL FEATURE NUMBER 8105 - PROGRAM NUMBER 5736-N25
		MATH/BASIC FOR SYSTEM 3 MODEL 6 AND ITF LOGIC MANUAL (FEATURE NO. 8017 AND 8153) - PROGRAM PRODUCTS 5703-XM2, 5734-XM3

LY20-0000-0			PLANNING SYSTEMS GENERATOR II (PSG II) DOS LOGIC MANUAL PROGRAM NUMBER 5736-XT1
LY20-0009-0			GENERALIZED INFORMATION SYSTEM VERSION 2 (GIS/2) SYSTEM MANUAL SUPPLEMENT FOR THE PL/I QUERY SUPPORT FEATURE PROGRAM NUMBER 5734-XX1
GY21-0001-0			IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT FORTRAN IV (16K CARD) PROGRAM LOGIC MANUAL PROGRAM NUMBER 360P-FO-205
GY21-0004-0	GN33-8648		IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT DISTRIBUTION PROGRAM, PROGRAM NUMBER 360P-UT-208
GY21-0012-0	GN21-5128 GN21-5156	GN21-5135	IBM 1419 MAGNETIC CHARACTER READER IBM 1275 OPTICAL READER SORTER DEVICE DEPENDENT BSAM PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-DN-508
GY21-0013-1			IBM OS IBM 1285, 1287, AND 1288 OPTICAL READERS PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-DN-508
LY21-0014-1	**LN21-5163	**LN21-5183	IBM DOS RPG II LANGUAGE PROGRAM LOGIC MANUAL PROGRAM NUMBER 5736-RG1
LY21-0021-0	LN21-5126		IBM SYSTEM/360 IBM 1288 BASIC UNFORMATTED READ SYSTEM PROGRAM LOGIC MANUAL PROGRAM NUMBER 5736-UT1
LY21-0022-0			IBM SYSTEM/360 OPERATING SYSTEM IBM 1288 BASIC UNFORMATTED READ SYSTEM PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5734-UT3
GY24-5000-1	GY33-8525	GN33-8622	IBM SYSTEM/360 BASIC OPERATING SYSTEM DISK ASSEMBLER PROGRAM NUMBER 360B-AS-309
GY24-5001-0			IBM BASIC OPERATING SYSTEM/360 (8K DISK) SORT/MERGE PROGRAM NUMBER 360B-SM-308
GY24-5002-0	GY33-8531 GY24-5076 GY24-5031 GY24-5061	GY33-8519 GY24-5062 GY24-5044	IBM BASIC OPERATING SYSTEM/360 SYSTEM CONTROL (8K DISK) PROGRAM NUMBER 360B-CL-302 PROGRAM LOGIC MANUAL
GY24-5003-1	GY33-8524	GY24-5077	IBM SYSTEM/360 BASIC OPERATING SYSTEM LOGICAL IOCS PROGRAM NUMBER 360B-IO-303 (SECTIONS 1 AND 2) PROGRAM NUMBER 360B-IO-304 (SECTION 3) PROGRAM NUMBER 360B-IO-305 (SECTION 4)
**GY24-5005-1# GY24-5005-0# GY24-5007-0	GY24-5034	GN33-8649	IBM SYSTEM/360 BASIC OPERATING SYSTEM REPORT PROGRAM GENERATOR (8K DISK) PROGRAM NUMBER 360B-RG-307 IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT PAPER DOCUMENT PROGRAM NUMBERS 360P-IO-059, 360P-IO-058
GY24-5009-1	GY28-6398 GY28-6385	GY28-6393	IBM SYSTEM/360 OPERATING SYSTEM COBOL-E PROGRAM NUMBER 360S-CO-503
GY24-5010-1# GY24-5010-0#	GY33-8530 GY24-5081 GY24-5064 GY24-5041	GY33-8520 GY24-5078 GY24-5040 GY24-5029	IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC TAPE SYSTEM SYSTEM CONTROL AND IOCS PROGRAM NUMBER 360P-AS-091
GY24-5012-1	GN33-8651		IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT TAPE ASSEMBLER PROGRAM NUMBER 360P-AS-091
GY24-5013-0	GN33-8652		IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT UNIVERSAL CHARACTER SET UTILITY PROGRAM PROGRAM NUMBER 360P-UT-048
GY24-5014-1	**GN33-8653		IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC ASSEMBLER, PROGRAM LOGIC MANUAL PROGRAM NUMBER 360P-AS-021
GY24-5015-0	GN33-8654		IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT BASIC UTILITIES PROGRAM LOGIC MANUAL
GY24-5016-0	GY24-5036		IBM SYSTEM/360 BASIC OPERATING SYSTEM SORT/MERGE (16K TAPE) PROGRAM NUMBER 360B-SM-400
GY24-5017-12			IBM SYSTEM/360 DISK OPERATING SYSTEM INTRODUCTION TO DOS LOGIC - PROGRAM NUMBER 360N-CL-453
GY24-5018-3			IBM SYSTEM/360, TAPE OPERATING SYSTEM, LOGICAL IOCS, PROGRAM NUMBER 360N-IO-404, VERSION 2.1
GY24-5019-0	GY24-5033	GY33-8535	IBM SYSTEM/360 TAPE OPERATING SYSTEM UTILITY PROGRAMS PROGRAM NUMBER 360N-UT-403
GY24-5020-6	GN24-5433	GN33-8693	IBM SYSTEM/360 DISK OPERATING SYSTEM, LOGICAL IOCS, VOLUME 1 INTRODUCTION PROGRAM LOGIC MANUAL, PROGRAM NUMBERS CPHOD 360N-CL-453, DAMOD 360N-IO-454, DIMOD 360N-CL-453, DTPCN 360N-CL-453, ISMOD 360N-IO-457, MRMOD 360N-IO-477, MTHOD 360N-IO-456, ORMOD 360N-IO-478, PRMOD 360N-CL-453, PTHOD 360N-IO-458, SDMOD 360N-IO-455
GY24-5021-0	GY28-2291		IBM SYSTEM/360 DISK OPERATING SYSTEM SORT/MERGE PROGRAM NUMBER 360N-SM-450
GY24-5022-2			IBM SYSTEM/360, TAPE OPERATING SYSTEM, SYSTEM CONTROL, PROGRAM NUMBER 360N-CL-405, VERSION 2
GY24-5023-2	GN33-8698		IBM SYSTEM/360 DISK OPERATING SYSTEM UTILITIES PROGRAM NUMBERS 360N-UT-461 360N-UT-462 360N-UT-463
GY24-5025-2	GY28-6396 GY28-6389	GY28-6390 GN28-0404	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS COBOL D 360M-CB-402 VERSION 2 360N-CB-452 VERSION 2
GY24-5026-1			IBM SYSTEM/360 TAPE OPERATING SYSTEM AUTOTEST PROGRAM NUMBER 360M-PT-407
GY24-5027-0			IBM SYSTEM/360 DISK OPERATING SYSTEM AUTOTEST PROGRAM NUMBER 360N-PT-459
GY24-5032-0			IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS FORTRAN IV PROGRAM NUMBER 360M-FO-009 PROGRAM NUMBER 360N-FO-451
GY24-5037-0			IBM SYSTEM/360, BASIC PROGRAMMING SUPPORT, REPORT PROGRAM GENERATOR FOR PUNCHED CARD EQUIPMENT PROGRAM NUMBER 360P-RG-200
GY24-5045-4# GY24-5045-3# GY24-5056-2	GN33-8679 GN24-5451	GN33-8699	DOS AND TOS UTILITIES MACROS - PROGRAM LOGIC MANUAL PROGRAM NUMBERS 360N-UT-411, 360N-UT-471
GY24-5079-2	GN33-8681		IBM SYSTEM/360 TAPE OPERATING SYSTEM ON-LINE TEST EXECUTIVE PROGRAM - PROGRAM NUMBER 360M-DN-418
GY24-5080-3			IBM SYSTEM/360 DISK OPERATING SYSTEM LIBRARIAN MAINTENANCE AND SERVICE PROGRAMS PROGRAM NUMBER 360N-CL-453
GY24-5086-4	GN33-8686		IBM SYSTEM/360 DISK OPERATING SYSTEM LINKAGE EDITOR PROGRAM PROGRAM NUMBER 360N-CL-453
GY24-5087-5	GN24-5439	GN33-8694	IBM SYSTEM/360 DISK OPERATING SYSTEM IPL AND JOB CONTROL PROGRAMS PROGRAM NUMBER 360N-CL-453
GY24-5088-4	GN24-5436	GN33-8695	IBM SYSTEM/360 DISK OPERATING SYSTEM LOGICAL IOCS VOLUME 2: UNIT RECORD, MAGNETIC TAPE AND DEVICE INDEPENDENT FILES PROGRAM LOGIC MANUAL
GY24-5089-3 GY24-5096-1	GN24-5431 GN33-8655	GN33-8696	IBM SYSTEM/360 DISK OPERATING SYSTEM, LOGICAL IOCS VOLUME 3: SEQUENTIAL AND DIRECT ACCESS DASD FILES, (PROGRAM NUMBERS: SDMOD 360N-IO-455 DAMOD 360N-IO-454) PROGRAM LOGIC MANUAL
GY24-5151-3			DOS LIOCS VOLUME 4: ISFMS - PROGRAM NUMBER 360N-IO-457 IBM SYSTEM/360 BASIC PROGRAMMING SUPPORT MODULAR FILE MAINTENANCE PROGRAM - PROGRAM NUMBER 360P-UT-219
GY24-5152-1	GN24-5444	GN33-8684	IBM SYSTEM/360 DISK OPERATING SYSTEM SUPERVISOR AND PHYSICAL TRANSIENTS - PROGRAM LOGIC MANUAL PROGRAM NUMBER 360N-CL-453
GY24-5153-2# GY24-5153-1# GY24-5154-3	GN33-8685		IBM SYSTEM/360 DISK OPERATING SYSTEM LOGICAL TRANSIENT PROGRAMS IBM SYSTEM/360 DISK OPERATING SYSTEM SYSTEM SERVICE PROGRAMS IBM SYSTEM/360 DISK OPERATING SYSTEM ON-LINE TEST EXECUTIVE PROGRAM - PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360N-DN-481

GY26-3598-0			IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER (32K) PROGRAM LOGIC MANUAL
**GY26-3642-3			PROGRAM NUMBER 360S-AS-036 IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS ASSEMBLER (D) PROGRAM NUMBER 360M/N-AS-465
GY26-3700-2	GN33-8102	GN33-8127	IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER (F) PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-AS-037
GY26-3701-1	GY21-0009	GY21-0005	IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEM REPORT PROGRAM GENERATOR PROGRAM NUMBERS 360N-RG-460 (DISK) 360M-RG-400 (TAPE)
GY26-3704-0	GY21-0011	GY21-0006	IBM SYSTEM/360 OPERATING SYSTEM REPORT PROGRAM GENERATOR PROGRAM NUMBER 360S-RG-038
GY26-3716-1	GN33-8120		IBM SYSTEM/360 DISK OPERATING SYSTEM ASSEMBLER (F) PROGRAM NUMBER 360N-AS-466
LY26-3737-0			IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION ASSEMBLER PROMPTER PROGRAM LOGIC MANUAL PROGRAM NUMBER 5734-CP2
**GY26-3741-3+			IBM SYSTEM/360 OPERATING SYSTEM DOS EMULATOR PROGRAM ON IBM SYSTEM/360 MODELS 135, 145, AND 155 PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360C-EU-738
LY26-3760-0	LN33-8097	LN33-8122	IBM SYSTEM/360 OPERATING SYSTEM ASSEMBLER H PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5734-AS1
SY26-3766-0			IBM 2740/2960 AUDIO-VISUAL CONTROL PROGRAM LOGIC MANUAL RPQ NUMBER F30209
GY27-7103-1	GY27-7131		IBM SYSTEM/360 CONVERSION AIDS: THE 1401/1460 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 40 PROGRAM LOGIC MANUAL
GY27-7108-0			IBM SYSTEM/360 TRANSITION AIDS: COBOL LANGUAGE CONVERSION PROGRAM (1401-CB-701) FOR THE IBM 1401 PROGRAM LOGIC MANUAL
GY27-7110-1			IBM SYSTEM/360 OPERATING SYSTEM GRAPHICS PROBLEM ORIENTED ROUTINES (360S-IO-523) PROGRAM LOGIC MANUAL
GY27-7111-0	3Y27-7129	GY27-7182	IBM SYSTEM/360 CONVERSION AIDS: THE 7074 EMULATOR PROGRAM FOR IBM SYSTEM/360 MODELS 50 AND 65 PROGRAM LOGIC MANUAL PROGRAM NUMBER 360C-EU-725
GY27-7113-6			IBM SYSTEM/360 OPERATING SYSTEM: GRAPHIC ACCESS METHOD PROGRAM NUMBER 360S-IO-523
GY27-7115-0	GY33-7001		IBM SYSTEM/360 CONVERSION AIDS: THE 1410/7010 SIMULATOR FOR IBM SYSTEM/360, PROGRAM NUMBER 360C-SI-754 PROGRAM LOGIC MANUAL
GY27-7116-1	GY33-7002		IBM SYSTEM/360 CONVERSION AIDS: THE 1620 SIMULATOR FOR IBM SYSTEM/360, PROGRAM NUMBER 360C-SI-752 PROGRAM LOGIC MANUAL
GY27-7117-1	GY33-7003		IBM SYSTEM/360 CONVERSION AIDS: THE 7070/7074 SIMULATOR FOR IBM SYSTEM/360, PROGRAM NUMBER 360C-SI-753 PROGRAM LOGIC MANUAL
GY27-7118-0	GY33-7004		IBM SYSTEM/360 CONVERSION AIDS: THE 7080 SIMULATOR FOR IBM SYSTEM/360, PROGRAM NUMBER 360C-SI-751 PROGRAM LOGIC MANUAL
GY27-7119-1	GY33-7005		IBM SYSTEM/360 CONVERSION AIDS: THE 7090/7094 SIMULATOR FOR IBM SYSTEM/360, PROGRAM NUMBER 360C-SI-750 PROGRAM LOGIC MANUAL
GY27-7126-0	GY27-7140		IBM SYSTEM/360 MODEL 30 1620 EMULATOR PROGRAM PROGRAM LOGIC MANUAL PROGRAM NUMBER 360C-EU-731
GY27-7128-7			IBM SYSTEM/360 OPERATING SYSTEM JOB MANAGEMENT WITH MPT PROGRAM LOGIC MANUAL
GY27-7152-1	GN27-1334		IBM SYSTEM/360 OPERATING SYSTEM GRAPHIC SUBROUTINE PACKAGE (GSP) FOR FORTRAN IV, COBOL, AND PL/I PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-LM-537
GY27-7155-2	GN27-1333 GN27-1369	GN27-1343	IBM SYSTEM/360 OPERATING SYSTEM MACHINE CHECK HANDLER FOR IBM SYSTEM/360 MODEL 65 PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-DN-539
GY27-7159-1			IBM SYSTEM/360 OPERATING SYSTEM: GRAPHIC JOB PROCESSOR SUPPORT - PROGRAM NUMBER 360S-RC-541
GY27-7161-0	GY27-7194		SYSTEM/360-1130 DATA TRANSMISSION FOR FORTRAN PROGRAM LOGIC MANUAL PROGRAM NUMBERS 360S-LM-542, 1130-LM-011
GY27-7164-2	GN33-7013		IBM SYSTEM/360 DISK OPERATING SYSTEM 1401/1440/1460 EMULATOR PROGRAM COMPATIBILITY SUPPORT/30 PROGRAM NUMBER 360N-EU-484
GY27-7165-2	GN33-7014		IBM SYSTEM/360 DISK OPERATING SYSTEM 1401/1440/1460 EMULATOR PROGRAM COMPATIBILITY SUPPORT/40 PROGRAM NUMBER 360N-EU-485
GY27-7166-0	GY27-7192		IBM SYSTEM/360 OPERATING SYSTEM AND 1130 DISK MONITOR SYSTEM SYSTEM/360 JOB PROCESSING FROM A REMOTE 1130/2250 SUBSYSTEM PROGRAM LOGIC MANUAL PROGRAM NUMBERS 360S-RC-543, 1130-CO-012
GY27-7184-1	GN27-1368		IBM SYSTEM/360 OPERATING SYSTEM: MACHINE-CHECK HANDLER FOR IBM SYSTEM/360 MODEL 85 - PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-DN-539
GY27-7187-2			EMULATOR PROGRAM TO EMULATE THE 7094 ON MODELS 65 AND 165 USING OS/360 - PROGRAM NUMBERS 360C-EU-734, 360C-EU-740
GY27-7198-1			IBM SYSTEM/360 OPERATING SYSTEM: MACHINE-CHECK HANDLER FOR SYSTEM/370 MODELS 155 AND 165 - PROGRAM LOGIC MANUAL
GY27-7199-2	GN27-1377		IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION (TSO) CONTROL PROGRAM PROGRAM NUMBER 360S-CI-555
GY27-7228-0			PROGRAM TO EMULATE THE IBM 7074 ON THE IBM SYSTEM/370 MODEL 165 USING OS/360 - PROGRAM NUMBER 360C-EU-739
GY27-7229-0			MODEL 165 USING OS/360 - PROGRAM NUMBER 360C-EU-739 PROGRAM TO EMULATE THE IBM 7080 ON THE IBM SYSTEM/370 MODEL 165 USING OS/360 - PROGRAM NUMBER 360C-EU-737
GY27-7236-1	GN27-1378		IBM SYSTEM/360 OPERATING SYSTEM MPT SUPERVISOR IBM SYSTEM/360 OPERATING SYSTEM MACHINE-CHECK HANDLER FOR IBM SYSTEM/370 MODELS 135 AND 145 PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-DN-539
GY27-7237-1			IBM 7074 OPERATING SYSTEM EMULATOR ON SYSTEM/370 MODEL 155 LOGIC MANUAL - PROGRAM NUMBER 360C-EU-741
GY27-7238-0			SYSTEM/360 DOS VERSION 4 BASIC TELECOMMUNICATIONS ACCESS METHODS - PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360N-CQ-469
GY27-7245-0			IBM SYSTEM/360 TIME SHARING SYSTEM SYSTEM LOGIC SUMMARY PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360G-CL-627
GY28-2009-2	GN28-3146 GN28-3219	GN28-3193	IBM SYSTEM/360 TIME SHARING SYSTEM SYSTEM CONTROL BLOCKS PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360G-CL-627
GY28-2011-6	GN28-3217		IBM SYSTEM/360 TIME SHARING SYSTEM: RESIDENT SUPERVISOR PROGRAM LOGIC MANUAL
GY28-2012-5#			TIME SHARING SYSTEM/360 COMMAND LANGUAGE PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360G-CL-627
GY28-2012-4#			IBM SYSTEM/360 TIME-SHARING SYSTEM PROGRAM CONTROL SYSTEM PROGRAM LOGIC MANUAL
GY28-2012-3#			IBM SYSTEM/360 TIME SHARING SYSTEM: SYSTEM GENERATION AND MAINTENANCE PROGRAM LOGIC MANUAL PROGRAM NUMBER 360-CL-627
GY28-2013-6	GN28-3214		
GY28-2014-2#			
GY28-2014-1#			
GY28-2015-6	GN28-3218		

GY28-2016-4#	GN28-3212		IBM SYSTEM/360 TIME SHARING SYSTEM ACCESS METHODS
GY28-2016-3#			PROGRAM NUMBER 360G-CL-627
			PROGRAM LOGIC MANUAL
GY28-2018-3			IBM SYSTEM/360 TIME SHARING SYSTEM: SYSTEM SERVICE MANUAL
			PROGRAM LOGIC MANUAL
GY28-2019-1	GN28-3167	GN28-3190	IBM SYSTEM/360 TIME SHARING SYSTEM: FORTRAN IV COMPILER
GY28-2020-2	GN28-3215		PROGRAM LOGIC MANUAL
			IBM SYSTEM/360 TIME SHARING SYSTEM FORTRAN IV LIBRARY
			SUBPROGRAMS PROGRAM LOGIC MANUAL
			PROGRAM NUMBER 360G-CL-627
GY28-2021-2	GN28-3213		IBM SYSTEM/360 TIME-SHARING SYSTEM ASSEMBLER
			PROGRAM LOGIC MANUAL
GY28-2022-2			IBM SYSTEM/360 TIME SHARING SYSTEM
			TIME SHARING SUPPORT SYSTEM - PROGRAM LOGIC MANUAL
			PROGRAM NUMBER 360G-CL-627
GY28-2030-2	GN28-3216		IBM SYSTEM/360 TIME-SHARING SYSTEM LINKAGE EDITOR
			PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627
GY28-2031-3			IBM SYSTEM/360 TIME SHARING SYSTEM: DYNAMIC LOADER
			PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627
GY28-2039-3	GN28-3134	GN28-3176	IBM SYSTEM/360 TIME-SHARING SYSTEM INDEPENDENT UTILITIES
			PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627
GY28-2041-4			IBM SYSTEM/360 TIME SHARING SYSTEM TASK MONITOR
			PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360G-CL-627
GY28-2042-2	GN28-3159		IBM SYSTEM/360 TIME SHARING SYSTEM:
			ON-LINE TEST CONTROL SYSTEM
			PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627
GY28-2047-4#			IBM SYSTEM/360 TIME SHARING SYSTEM
GY28-2047-3#			OPERATOR TASK AND BULK I/O - PROGRAM LOGIC MANUAL
			PROGRAM NUMBER 360G-CL-627
GY28-2051-0	GN28-3161	GN28-3191	IBM SYSTEM/360 TIME SHARING SYSTEM PL/I COMPILER
			PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627
GY28-2052-0	GN28-3132	GN28-3162	IBM SYSTEM/360 TIME SHARING SYSTEM
			PL/I LIBRARY COMPUTATIONAL SUBROUTINES
			PROGRAM LOGIC MANUAL PROGRAM NUMBER 360G-CL-627
GY28-6302-2			IBM SYSTEM/360 OPERATING SYSTEM COBOL CFS PROGRAM LOGIC
			MANUAL PROGRAM NUMBER 360S-CB-524 360S-LM-525
GY28-6392-1#	GN28-0413	GN28-0431	IBM SYSTEM/360 DISK OPERATING SYSTEM USA STANDARD COBOL -
GY28-6392-0#			PROGRAM LOGIC MANUAL
			PROGRAM NUMBER 360N-CB-402
GY28-6394-1	GN28-0415		IBM SYSTEM/360 DISK OPERATING SYSTEM FORTRAN IV
			PROGRAM LOGIC MANUAL PROGRAM NUMBER 360N-FO-479
GY28-6395-1			IBM SYSTEM/360 OPERATING SYSTEM: USA STANDARD COBOL -
			PROGRAM LOGIC MANUAL
			PROGRAM NUMBERS 360S-CB-545, 360S-LM-546
GY28-6397-0	GN28-0401	GN28-0403	IBM SYSTEM/360 CONVERSION AIDS: COBOL TO USA STANDARD COBOL
	GN28-0468		LANGUAGE CONVERSION PROGRAM - PROGRAM LOGIC MANUAL
			PROGRAM NUMBERS 360N-CV-489, 360C-CV-713
LY28-6406-1			SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION
			COBOL PROMPTER PROGRAM LOGIC MANUAL, PROGRAM NUMBER 5734-CP1
LY28-6407-1			IBM SYSTEM/360 OPERATING SYSTEM
			FULL AMERICAN NATIONAL STANDARD COBOL COMPILER AND LIBRARY,
			VERSION 3 PROGRAM LOGIC MANUAL, PROGRAM NUMBER 5734-CB1
LY28-6408-0			IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV LIBRARY (MODEL I)
			PROGRAM LOGIC MANUAL, PROGRAM NUMBER 5734-LM1
LY28-6409-0			IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV
			LIBRARY MOD II PROGRAM LOGIC MANUAL, PROGRAM NUMBER 5734-LM3
LY28-6410-0			IBM SYSTEM/360 OPERATING SYSTEM TIME SHARING OPTION FORTRAN
			PROMPTER - PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5734-CP3
LY28-6412-0	LN28-0462	**LN28-0485	IBM SYSTEM/360 DISK OPERATING SYSTEM FULL AMERICAN NATIONAL
			STANDARD COBOL COMPILER, VERSION 3, PROGRAM LOGIC MANUAL
			PROGRAM NUMBER 5736-CB2
LY28-6413-0	LN28-0463	**LN28-0486	IBM SYSTEM/360 DISK OPERATING SYSTEM FULL AMERICAN NATIONAL
			STANDARD COBOL SUBROUTINE LIBRARY, VERSION 3
			PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5736-LM2
LY28-6414-0	**LN28-0491		IBM SYSTEM/360 DISK OPERATING SYSTEM SUBSET AMERICAN
			NATIONAL STANDARD COBOL COMPILER AND LIBRARY PROGRAM LOGIC
			MANUAL - PROGRAM NUMBER 5736-CB1
LY28-6415-0			IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H EXTENDED PLUS)
			COMPILER AND LIBRARY PROGRAM LOGIC SUPPLEMENT
			(PROGRAMMING REQUEST FOR PRICE QUOTATION)
			PROGRAM NUMBER 5799-AAW
GY28-6564-2			IBM SYSTEM/360 CONVERSION AIDS: THE 1410/7010
			EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 40
			PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360C-EU-728
GY28-6566-1	GY27-7175	GN27-1358	IBM SYSTEM/360 CONVERSION AIDS: THE 709/7090/7094/7094 II
			EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 65
			PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360C-EV-729
GY28-6569-1			IBM SYSTEM/360 CONVERSION AIDS: THE 1410/7010
			EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 50
			PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360C-EV-726
GY28-6597-4			IBM SYSTEM/360 OPERATING SYSTEM, SORT/MERGE PROGRAM LOGIC
			MANUAL, (PROGRAM NUMBER 360S-SM-023)
GY28-6599-1			IBM SYSTEM/360 CONVERSION AIDS: THE 7040/7044
			EMULATOR PROGRAM FOR IBM SYSTEM/360 MODEL 65
			PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360C-EU-733
GY28-6601-2	GY28-6828	GY28-6827	IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (E)
	GY28-6819	GY28-6383	PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-FO-092
GY28-6604-5			SYSTEM/360 OPERATING SYSTEM (OS) SEQUENTIAL ACCESS METHOD
			(SAM) LOGIC MANUAL - PROGRAM NUMBER 360S-DH-508
GY28-6605-5#			IBM SYSTEM/360 OPERATING SYSTEM: INTRODUCTION TO CONTROL
GY28-6605-4#			PROGRAM LOGIC, PROGRAM NUMBERS 360S-CI-505 360S-DH-508
GY28-6605-3			IBM SYSTEM/360 OPERATING SYSTEM CATALOG MANAGEMENT
			PROGRAM LOGIC MANUAL
GY28-6607-8#			SYSTEM/360 OPERATING SYSTEM - DIRECT ACCESS DEVICE SPACE
GY28-6607-7#			MANAGEMENT ROUTINES - LOGIC MANUAL
GY28-6609-6			IBM SYSTEM/360 OPERATING SYSTEM INPUT/OUTPUT SUPPORT
			(OPEN/CLOSE/EOV) PROGRAM LOGIC MANUAL
GY28-6610-2	GY28-6400	GY28-2356	IBM SYSTEM/360 OPERATING SYSTEM LINKAGE EDITOR
	GY28-2301		PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-ED-510 (LEVEL E)
GY28-6611-0	GY28-2371	GN26-0016	IBM SYSTEM/360 OPERATING SYSTEM TESTRAN PROGRAM LOGIC MANUAL
	GN26-0018		PROGRAM NUMBER 360S-PT-516
GY28-6612-5#			IBM SYSTEM/360 OPERATING SYSTEM FIXED TASK SUPERVISOR
GY28-6612-4#	GY27-7189	GN27-1337	PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-CI-505
GY28-6613-5			IBM SYSTEM/360 OPERATING SYSTEM: JOB MANAGEMENT PROGRAM
			LOGIC MANUAL PROGRAM NUMBER 360S-CI-505
GY28-6614-8			IBM SYSTEM/360 OPERATING SYSTEM: UTILITIES, PROGRAM LOGIC
			MANUAL PROGRAM NUMBER 360S-UT-506
GY28-6616-9#			SYSTEM/360 OPERATING SYSTEM/OS INPUT/OUTPUT (I/O)
GY28-6616-8#			SUPERVISOR LOGIC MANUAL - PROGRAM NUMBER 360S-CI-505
GY28-6617-6			SYSTEM/360 OPERATING SYSTEM BDAM LOGIC MANUAL
			PROGRAM NUMBER 360S-DH-509
GY28-6618-5#			SYSTEM/360 OPERATING SYSTEM ISAM LOGIC MANUAL
GY28-6618-4#			PROGRAM NUMBER 360S-IO-526
GY28-6638-1	GY28-6829	GY28-6826	IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (G)
	GY28-6847		COMPILER PROGRAM LOGIC MANUAL
			PROGRAM NUMBER 360S-FO-520

GY28-6642-4#	GN28-0594		IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (H) COMPILER
GY28-6642-3#			PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-FO-500
GY28-6645-2#	GN28-2409		IBM SYSTEM/360 DISK OPERATING SYSTEM TAPE AND DISK
GY28-6645-1#			SORT/MERGE PROGRAM LOGIC MANUAL PROGRAM NUMBER 360N-SM-483
GY28-6651-05			IBM SYSTEM/360 OPERATING SYSTEM RELEASE 20 ON/ LINE TEST
GY28-6659-6	GN27-1379		EXECUTIVE PROGRAM PLM PROGRAM NUMBER 360S-DN-533
GY28-6660-9			IBM SYSTEM/360 OPERATING SYSTEM MVT SUPERVISOR
GY28-6661-5			PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-CI-535
GY28-6667-2			IBM SYSTEM/360 OPERATING SYSTEM: MVT JOB MANAGEMENT,
GY28-6688-0			PROGRAM LOGIC MANUAL, PROGRAM NUMBER 360S-CI-535
			IBM SYSTEM/360 OPERATING SYSTEM INITIAL PROGRAM LOADER AND
			NUCLEUS INITIALIZATION PROGRAM PROGRAM LOGIC MANUAL
			PROGRAM NUMBER 360S-CI-535
			IBM SYSTEM/360 OPERATING SYSTEM LINKAGE EDITOR (F)
			PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-ED-521
			INTERNAL LOGIC MANUAL FOR THE IBM 2947-4 CHECK COLLECTION
			CONTROLLER SEQUENTIAL ACCESS METHOD - PROGRAM SUPPORT
			RPQ 880264 - PROGRAM NUMBERS 5799-WAF 5799-WAG
LY28-6696-1	LN33-8107		IBM SYSTEM/360 DISK OPERATING SYSTEM: TAPE AND DISK
			SORT/MERGE PROGRAM - PROGRAM NUMBER 5736-SM1
			(PROGRAM NUMBER 5736-SM1)
GY28-6714-1	GN28-0475		IBM SYSTEM/360 OPERATING SYSTEM LOADER -
GY28-6717-3			PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360C-LD-547
GY28-6721-0			IBM SYSTEM/360 OPERATING SYSTEM PROGRAM LOGIC MANUAL
			MASTER INDEX
			IBM SYSTEM/360 OPERATING SYSTEM: SERVICE AIDS
			PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-DN-554
GY28-6745-0	GN28-2481		IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION
			CATALOG MANAGEMENT, PROGRAM LOGIC MANUAL
			PROGRAM NUMBER 360S-DN-508
SY28-6746-0	**SN28-2527		IBM 2969 PROGRAMMABLE TERMINAL INTERCHANGE MODEL 1
			CONTROL PROGRAM DESIGN SPECIFICATIONS SUPPORTING
			RPQ 888117
LY28-6761-0			IBM SYSTEM/360 OPERATING SYSTEM: DATA SET UTILITIES SUPPORT
			FOR ASCII - LOGIC MANUAL, PROGRAM PRODUCT 5734-UT2
LY28-6766-1			IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION DATA
			UTILITIES: COPY, FORMAT, LIST, MERGE
			PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5734-UT1
GY28-6770-1	GN28-2524		IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING SYSTEM
			TERMINAL MONITOR PROGRAM AND SERVICE ROUTINES
			OPERATING SYSTEM/360 - PROGRAM LOGIC
			PROGRAM NUMBER 360S-CI-555
GY28-6771-0	GN28-2489		IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION
			COMMAND PROCESSOR PROGRAM LOGIC MANUAL, VOLUME 1, ACCOUNT
			PROGRAM NUMBER 360S-CI-555
GY28-6772-0	GN28-2490	GN28-2513	IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION
	GN28-2525		COMMAND PROCESSOR PROGRAM LOGIC MANUAL, VOLUME 2,
			ALLOCATE, CALL, CANCEL/STATUS, DELETE,
			PROGRAM NUMBERS 360S-CI-555, 360S-UT-506
GY28-6773-1#			IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION
GY28-6773-0#			COMMAND PROCESSOR PROGRAM LOGIC MANUAL, VOLUME 3, EDIT
			PROGRAM NUMBER 360S-UL-506
GY28-6774-0	GN28-2491	GN28-2526	IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION
			COMMAND PROCESSOR PROGRAM LOGIC MANUAL, VOLUME 4,
			EXEC, FREE, HELP, LINK, LISTALC, LISTBC -
			PROGRAM NUMBERS 360S-CI-555, 360S-UT-506
GY28-6775-0	GN28-2486	GN28-2511	IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION
			COMMAND PROCESSOR PROGRAM LOGIC MANUAL, VOLUME 5, LISTCAT,
			LISTDS, LOADGO, OPERATOR, OUTPUT -
			PROGRAM NUMBERS 360S-CI-555, 360S-UT-506
GY28-6776-0	GN28-2492		IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION
			COMMAND PROCESSOR PROGRAM LOGIC MANUAL, VOLUME 6, PROFILE,
			PROTECT, RENAME, RUN, SEND, SUBMIT, TERMINAL, TIME,
			WHEN/END - PROGRAM NUMBERS 360S-CI-555, 360S-UT-506
GY28-6777-0	GN28-2488		IBM SYSTEM/360 OPERATING SYSTEM: TIME SHARING OPTION
			COMMAND PROCESSOR PROGRAM LOGIC MANUAL, VOLUME 7, TEST
GY28-6800-5			IBM SYSTEM/360 OPERATING SYSTEM, PL/I (F) COMPILER PROGRAM
GY28-6801-5#			LOGIC MANUAL, PROGRAM NUMBER 360S-NL-511
GY28-6811-0	GY33-8509	GY28-6824	IBM SYSTEM/360 OPERATING SYSTEM, PL/I SUBROUTINE LIBRARY,
	GY28-6817	GN33-8656	PROGRAM LOGIC MANUAL, PROGRAM NUMBER 360S-LM-512
	GN33-8657		IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM ASSEMBLER
GY28-6812-1			PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360P-AS-616
			IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM SUPERVISOR AND
			JOB CONTROL PROGRAM LOGIC MANUAL
			PROGRAM NUMBERS 360P-IO-613 360P-CL-614
GY28-6813-0	GY28-6823	GN33-8646	IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM LINKAGE EDITOR
GY28-6814-1	GY33-8521	GN33-8647	PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360P-ED-615
			IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM UTILITIES AND
			STAND ALONE PROGRAMS PROGRAM LOGIC MANUAL - PROGRAM NUMBERS
			360P-UT-606 360P-UT-607 360P-UT-608 360P-UT-609 360P-UT-610
			360P-UT-611 360P-UT-612 360P-UT-617 360P-UT-620
GY28-6815-1			IBM SYSTEM/360 MODEL 44 PROGRAMMING SYSTEM FORTRAN IV
			COMPILER PROGRAM NUMBER 360P-FO-618
GY28-6816-0			PROGRAM LOGIC MANUAL - COMPILER PROGRAM NUMBER 360P-FO-618
			IBM SYSTEM/360 CONVERSION AIDS 1620 SIMULATOR FOR IBM
			SYSTEM/360 MODEL 44 PROGRAM LOGIC MANUAL -
			360C-SI-755
GY28-6831-2			IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV SYNTAX CHECKER
			PROGRAM NUMBER 360S-FO-550
LY28-6832-1			IBM SYSTEM/360 OS/DOS ITF PROGRAM LOGIC INTRODUCTION AND
			METHOD OF OPERATION
			PROGRAM NUMBERS 5734-RC1, 5734-RC3, 5736-RC1, 5736-RC2
LY28-6833-1	LN28-0455		IBM SYSTEM/360 OS/DOS ITF PROGRAM LOGIC
			INITIALIZATION SYSTEM CONTROL, AND SYSTEM SUPPORT
			PROGRAM LOGIC MANUAL - PROGRAM NUMBERS 5734-RC1,
			5734-RC3, 5736-RC1, 5736-RC2
LY28-6834-3			IBM SYSTEM/360 OS/DOS ITF PROGRAM LOGIC
			LANGUAGE COMPONENT CONTROLLER
			PROGRAM LOGIC MANUAL PROGRAM NUMBERS 5734-RC1, 5734-RC3,
			5736-RC1, 5736-RC2
LY28-6835-1	LN28-0442		IBM SYSTEM/360 OS/DOS ITF PL/I PROGRAM LOGIC
			LANGUAGE COMPONENT: PL/I ROUTINES
			PROGRAM NUMBERS 5734-RC1, 5736-RC1
LY28-6836-0	LN28-0420	LN28-0429	IBM SYSTEM/360 OS/DOS ITF PROGRAM LOGIC
	LN28-0443		LANGUAGE COMPONENT: BASIC ROUTINES
			PROGRAM NUMBERS 5736-RC2, 5734-RC3
LY28-6837-3	LN28-0456		IBM SYSTEM/360 OS/DOS ITF PROGRAM LOGIC
			LANGUAGE COMPONENT: COMMON ROUTINES AND REFERENCE DATA
			PROGRAM NUMBERS 5734-RC1, RC3, 5736-RC1, RC2
LY28-6840-1			INTERACTIVE TERMINAL FACILITY PROGRAM LOGIC - PROGRAM
			NUMBERS 5734-RC1, RC3; 5736-RC1, RC2
LY28-6842-1#			IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION)
LY28-6842-0#			INTERACTIVE TERMINAL FACILITY PROGRAM LOGIC INITIALIZATION,
			SYSTEM CONTROL, AND SYSTEM SUPPORT
			PROGRAM NUMBERS 5734-RC2, 5734-RC4
LY28-6845-0			IBM SYSTEM/360 OPERATING SYSTEM (TIME SHARING OPTION)
			INTERACTIVE TERMINAL FACILITY PROGRAM LOGIC INDEX
			PROGRAM NUMBERS 5734-RC2, 5734-RC4

LY28-6846-1			IBM SYSTEM/360 OPERATING SYSTEM CODE AND GO FORTRAN PROCESSOR PROGRAM LOGIC MANUAL PROGRAM NUMBER 5734-F01
LY28-6856-0			IBM SYSTEM/360 OPERATING SYSTEM FORTRAN IV (GI) COMPILER PLM PROGRAM NUMBER 5734-F02
GY28-7106-0			IBM SYSTEM/360 OPERATING SYSTEM UPDATE ANALYSIS PROGRAM PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-UT-506
GY30-2001-5			IBM SYSTEM/360 OPERATING SYSTEM BASIC TELECOMMUNICATIONS ACCESS METHOD PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-CQ-513
GY30-2002-3			IBM SYSTEM/360 OPERATING SYSTEM QUEUED TELECOMMUNICATIONS ACCESS METHOD PROGRAM LOGIC MANUAL PROGRAM NUMBER 360S-CQ-519
GY30-2005-4	GY30-2542	GY30-2557	PROGRAM NUMBER 360S-RC-536 IBM SYSTEM/360 OPERATING SYSTEM BASIC TELECOMMUNICATIONS ACCESS METHOD
GY30-2006-1	GY30-2537		IBM SYSTEM/360 BASIC OPERATING SYSTEM, BASIC PROGRAMMING SUPPORT REMOTE JOB ENTRY WORK STATION PROGRAM PROGRAM NUMBERS 360B-CQ-311-(BOS), 360B-CQ-218-(BPS) PROGRAM LOGIC MANUAL
GY30-2011-1			IBM SYSTEM/360 OPERATING SYSTEM CONVERSATIONAL REMOTE JOB ENTRY PROGRAM LOGIC MANUAL
GY30-2027-0			IBM SYSTEM/360 OPERATING SYSTEM TCAM SERVICEABILITY AIDS: PROGRAM LOGIC MANUAL, PROGRAM NUMBER 360S-CQ-548
GY30-2029-2			IBM SYSTEM/360 OPERATING SYSTEM TELECOMMUNICATIONS ACCESS METHOD PROGRAM NUMBER 360S-CQ-548 PROGRAM LOGIC MANUAL
**GY30-5001-5			IBM SYSTEM/360 DISK OPERATING SYSTEM BASIC TELECOMMUNICATIONS ACCESS METHOD PROGRAM LOGIC MANUAL PROGRAM NUMBER 360N-CQ-469
GY30-5002-4			IBM SYSTEM/360 DISK OPERATING SYSTEM QUEUED TELECOMMUNICATIONS ACCESS METHOD PROGRAM LOGIC MANUAL PROGRAM NUMBER 360N-CQ-470
GY33-6003-2			IBM SYSTEM/360 PL/I LANGUAGE SPECIFICATIONS
LY33-6007-0			OS PL/I OPTIMIZING COMPILER: PROGRAM LOGIC MANUAL PROGRAM NUMBER 5734-PL1
LY33-6008-0			SYSTEM/360 OPERATING SYSTEM PL/I RESIDENT LIBRARY: PROGRAM LOGIC MANUAL - PROGRAM NUMBER 5734-LM4
LY33-6009-0			OS PL/I TRANSIENT LIBRARY: PROGRAM LOGIC MANUAL PROGRAM NUMBER 5734-LM5
**LY33-6010-1			DOS PL/I OPTIMIZING COMPILER: PROGRAM LOGIC MANUAL PROGRAM NUMBER 5736-PL1
LY33-6011-0			DOS PL/I RESIDENT LIBRARY: PROGRAM LOGIC MANUAL PROGRAM NUMBER 5736-LM4
LY33-6012-0	**LN33-6060		DOS PL/I TRANSIENT LIBRARY - PROGRAM LOGIC MANUAL PROGRAM NUMBER 5736-LM5
LY33-6013-0			OS PL/I CHECKOUT COMPILER PROGRAM LOGIC MANUAL PROGRAM NUMBER 5734-PL2
LY33-6014-0			SYSTEM/360 OPERATING SYSTEM PL/I CHECKOUT COMPILER PROGRAM LOGIC, VOLUME 2 OF 2 - PROGRAM NUMBER 5734-PL2
GY33-7006-0			IBM SYSTEM/360 CONVERSION AIDS: ALGOL-TO-PL/I LANGUAGE CONVERSION PROGRAM FOR IBM SYSTEM/360 OPERATING SYSTEM, PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360C-CV-711
GY33-7007-0	GN33-7010		IBM SYSTEM/360 CONVERSION AIDS: COBOL-to-PL/I LANGUAGE CONVERSION PROGRAM FOR IBM SYSTEM/360 OPERATING SYSTEM, PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360C-CV-712
GY33-7008-0	GN33-7019	GN33-7022	PROGRAM TO EMULATE THE 1401, 1440, AND 1460 ON THE SYSTEM/370 MODELS 145 AND 155 USING DISK OPERATING SYSTEM/360 - PROGRAM NUMBER 360N-EU-490
GY33-7009-0	GN33-7020	GN33-7023	PROGRAM TO EMULATE THE 1410 AND 7010 ON THE SYSTEM/370 MODELS 145 AND 155 USING DOS/360 PROGRAM NUMBER 360N-EU-490 PROGRAM LOGIC MANUAL
GY33-8000-0	GY33-8003	GY33-8001	OS ALGOL (F) COMPILER LOGIC - PROGRAM NUMBERS 360S-AL-531 360S-LH-532
GY33-8009-0	GN33-8129		IBM SYSTEM/360 OPERATING SYSTEM, PL/I SYNTAX CHECKER, PROGRAM LOGIC MANUAL - PROGRAM NUMBER 360S-PL-552
LY33-8027-0	LN33-8098	LN33-8119	IBM SYSTEM/360 OPERATING SYSTEM, SORT/MERGE, PROGRAM LOGIC MANUAL - PROGRAM NO. 5734-SM1
**LY33-8039-0	LN33-8133		DOS SORT/MERGE PROGRAM LOGIC MANUAL PROGRAM NUMBER 5743-SM1
LY33-8540-0			IBM SYSTEM/360 DISK OPERATING SYSTEM ASCII MAGNETIC TAPE UTILITIES PROGRAM LOGIC MANUAL PROGRAM NUMBER 5736-UT2
GY33-9010-4#			IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS, PL/I SUBSET LANGUAGE, PROGRAM LOGIC MANUAL, VOLUME 1 OF 3 PROGRAM NUMBERS: 360N-PL-464 (DOS) 360M-PL-410 (TOS)
GY33-9010-3#	GN33-9126		IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS, PL/I SUBSET LANGUAGE, VOLUME 2 OF 3 PROGRAM NUMBERS: 360N-PL-464 (DOS) 360M-PL-410 (TOS)
GY33-9011-2			PROGRAM LOGIC MANUAL
GY33-9012-2#			IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS, PL/I SUBSET LANGUAGE, VOLUME 3 OF 3 PROGRAM LOGIC MANUAL PROGRAM NUMBERS: 360N-PL-464 (DOS) 360M-PL-410 (TOS)
GY33-9012-1#			IBM SYSTEM/360 DISK AND TAPE OPERATING SYSTEMS PL/I SUBSET LIBRARY ROUTINES - PROGRAM LOGIC MANUAL PROGRAM NUMBERS 360N-PL-464 (DOS), 360M-PL-410 (TOS)
GY33-9013-1	GN33-9108		
S2C0-0051-1	S2C0-0050-84	S2C0-5050	MICROFICHE - EARLY WARNING
	S2C0-5051-1	S2C0-5052-3	2025 AND LARGER FILE CARD
	S2C0-5053-5		
S2C0-0101-8	**S2C0-5140-2	S2C0-5139-3	MICROFICHE - EARLY WARNING
	S2C0-5138-2	S2C0-5137-2	OPERATING SYSTEM OS FILE CARD
	S2C0-5136-1	S2C0-0100-35	
	S2C0-0149-31	S2C0-5132-2	
	S2C0-0148-58	S2C0-5133	
	S2C0-5134-1	S2C0-5135	
S2C0-0201-4	S2C0-0200-32	S2C0-5100-1	MICROFICHE - EARLY WARNING
	S2C0-5101-2	S2C0-5102-1	PROGRAMMING SYSTEM OTHER THAN OS FILE
S2C0-0301-4	S2C0-0348-7	S2C0-5087	MICROFICHE - EARLY WARNING PRODUCTS CSP-SCP FILE
	S2C0-5086-1	S2C0-0300-65	
	S2C0-0349-26	**S2C0-5088	
	**S2C0-5089-1		
S229-3169-3			SYSTEM/360 OPERATING SYSTEM - HANDBOOK
G320-0956-2			ATS/360 TERMINAL OPERATOR'S QUICK REFERENCE GUIDE PROGRAM NUMBERS 360A-CX-18X, 360A-CX-19X
G320-0958-1			ATS/360 - DOS COMPUTER OPERATOR'S QUICK REFERENCE GUIDE PROGRAM NUMBER 360A-CX-18X
G320-1002-1			ATS/360 - OS COMPUTER OPERATOR'S QUICK REFERENCE GUIDE PROGRAM NUMBER 360A-CX-19X
**G320-1408-0			S/360 - S/370 MCGILL UNIVERSITY SYSTEM FOR INTERACTIVE COMPUTING - PROGRAM NUMBER 5796-IUP
**G320-1409-0			CONSOLIDATED FUNCTIONS EQUITY PRODUCTS (CFEP) VARIABLE ANNUITIES, MUTUAL FUNDS - DATAMANN INC., ANNOUNCEMENT NOTICE INSTALLED USER - PROGRAM NUMBER 5796-AAP

**G320-1517-1			APL/PDTS (PROGRAMMING DEVELOPMENT TRACKING SYSTEM)
**G320-1518-1			PROGRAM NUMBER 5796-PAD
G320-1519-0			FLIGHT DATA DISPLAY SYSTEM IUP ANNOUNCEMENT NOTICE
**G320-1621-26+			PROGRAM NUMBER 5796-PAE
G320-1973-1			FLIGHT DATA DISPLAY SYSTEM, GENERAL INFORMATION MANUAL
G520-2255-0			PROGRAM NUMBER 5796-PAE
G520-2327-1	GN23-0707	GN23-0705	IBM MARKETING PUBLICATIONS KWIC INDEX
G520-2329-0	GN23-0717	GN23-0712	CP-67/CMS OPERATOR'S REFERENCE GUIDE
	GN23-0715	GN23-0723	PROGRAM NUMBER 360D-05.2.005
	GN23-0724	GN23-0726	LEMNAS - LAW ENFORCEMENT MANPOWER RESOURCE ALLOCATION SYSTEM
	GN23-0727	GN23-0728	MORE EFFICIENT POLICING WITH THE SAME POLICE FORCE
	GN23-0729	GN23-0731	IBM EDUCATION - A COURSE OF ACTION
**GN23-0733			SYSTEMS SCIENCE EDUCATION
G520-2330-0	GN23-0714	GN23-0713	OS COURSE SELECTION GUIDE EDUCATION MARKETING
	GN23-0721	GN23-0725	DOS/TOS COURSE SELECTION GUIDE EDUCATION MARKETING
**GN23-0734	**GN23-0732		
G520-2336-0	GN23-0710	GN23-0711	INDUSTRY APPLICATIONS COURSE SELECTION GUIDE
	GN23-0716	GN23-0709	EDUCATION MARKETING
**GN23-0722	**GN23-0718		
**GN23-0719	**GN23-0720		
G520-2467-1#			IBM EDUCATION - A COURSE OF ACTION-DP EDUCATION FOR
G520-2467-0#			MANAGERS - COURSE SELECTION GUIDE

## Part 4 - Library Charts

These charts are aids for quickly finding order numbers for System/360 and System/370 publications about a specific machine or programming system, except for those pertaining to the System/360 Model 20. The machine charts are arranged according to the numbers of the system models and the I/O devices. The programming charts are arranged to show prerequisite publications and categories of

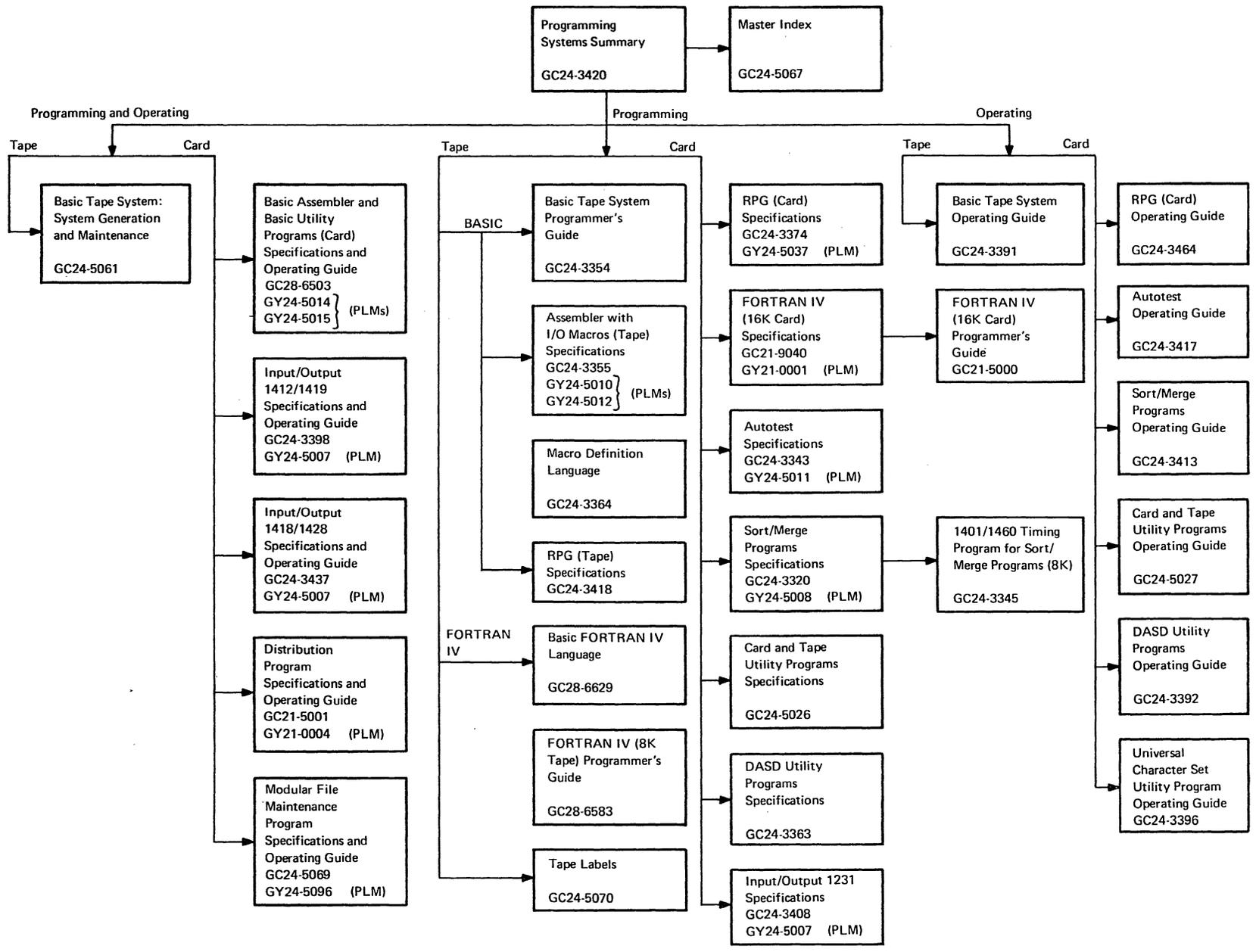
publications for a particular system. To determine the models of System/360 and/or System/370 to which an I/O device currently may attach, see *IBM System/360 Input/Output Configurator*, GA22-6823, and *IBM System/370 Input/Output Configurator*, GA22-7002. See *IBM System/360 Model 20 Bibliography*, GA26-3565, for information about System/360 Model 20 machines and programming systems.

SYSTEM PUBLICATIONS	System Summary	System Reference	System Physical Planning Reference	I/O Configurator			
System/370	GA22-7001	GA22-7000	GA22-7004	GA22-7002			
System/360	GA22-6810	GA22-6821	GC22-6820	GA22-6823			
MODEL PUBLICATIONS	Model Reference	Model Configurator	Model Operating Procedures	Model Physical Planning Template	Other Features		
System/370							
Model 145	GA24-3557 GA24-3573		GA24-3554	GX22-7005			
Model 155	GA22-6942 GA22-6962	GA22-6957		GX22-7006			
Model 165	GA22-6935	GA22-6956		GX22-7007	GA22-6955 GA22-6958		
Model 195	GA22-6943	GA22-6944	GA22-6954	GX22-6981			
MODEL PUBLICATIONS	Model Reference	Model Configurator	Model Operating Procedures	Model Physical Planning Template	Other Features		
System/360							
Model 25	GA24-3510	GA24-3511	GA24-3523	GX22-6894	GA24-3512 GA24-3524 GA24-3526		
Model 30	GA24-3231 GA24-3411	GA24-3232	GA24-3373	GX22-6894	GA24-3255 GA24-3365 GC20-1650		
Model 40	GA22-6881	GA22-6813	GA22-6911	GX22-6894	GL22-6902 GL22-6903 GL22-6904		
Model 44	GA22-6875	GA22-6874	GA22-6910	GX22-6914	GA22-6900		
Model 50	GA22-6898	GA22-6814	GA22-6908	GX22-6914	GA27-2717		
Model 65	GA22-6884	GA22-6887	GA27-2728	GX22-6856 GX22-6924	GA27-2715 GA27-2716 GA27-2717		
Model 67	GA27-2719	GA27-2713		GX22-6905	GA27-2715		
Model 75	GA22-6889	GA22-6888	GA22-6909	GX22-6856			
Model 85	GA22-6916	GA22-6920	GA22-6927	GX22-6923	GA27-2733		
Model 91	GA22-6907	GA22-6907					
Model 195	GA22-6943	GA22-6944	GA22-6954	GX22-6981			

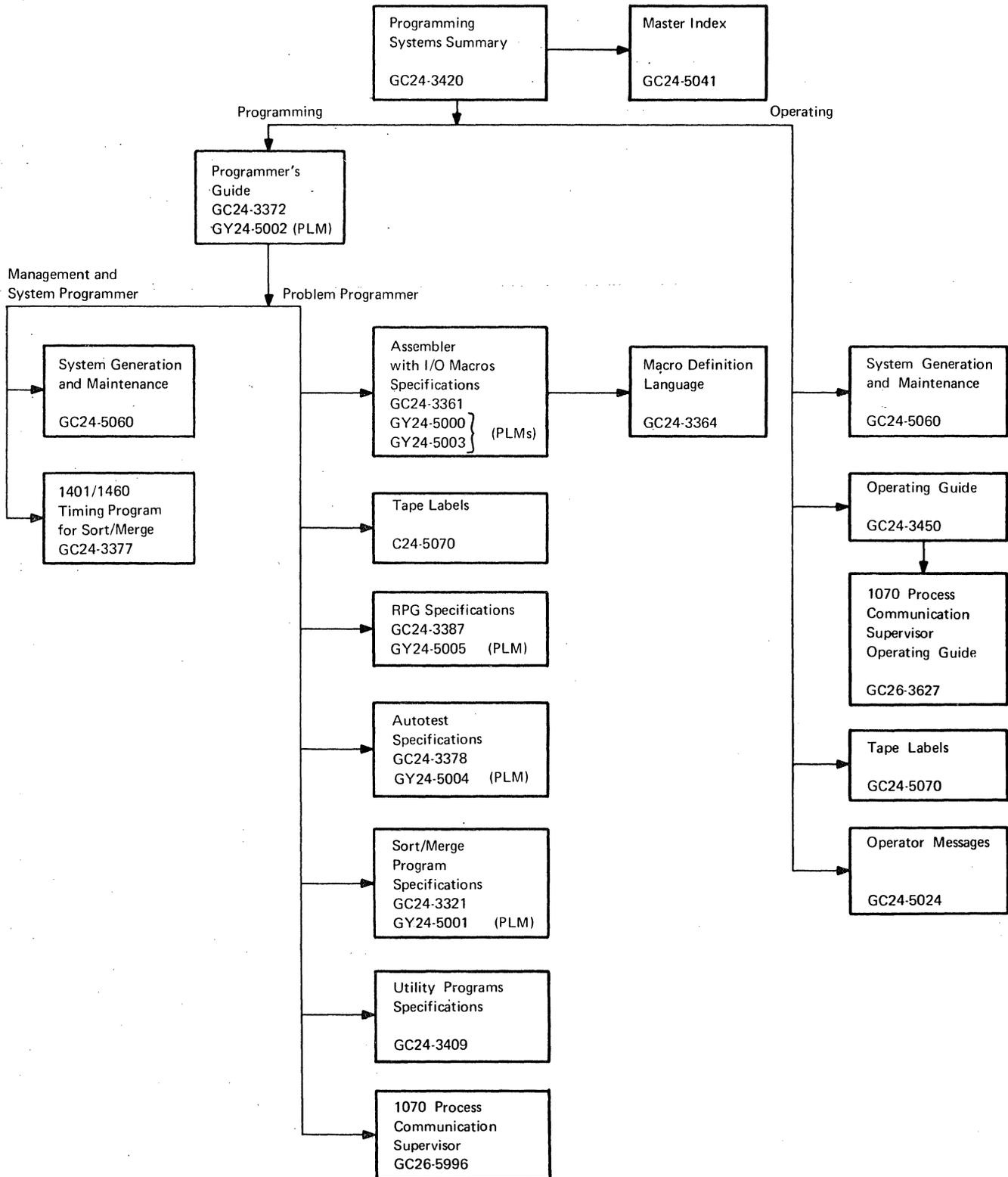
I/O DEVICE OR CONTROL UNIT PUBLICATION	PUBLICATION ORDER NUMBER		I/O DEVICE OR CONTROL UNIT PUBLICATION	PUBLICATION ORDER NUMBER	
	Reference Manual	Physical Planning Template		Reference Manual	Physical Planning Template
50 Magnetic Data Inscrber Model 1	GA27-2725		2401 Magnetic Tape Unit Models 1-6, 8	GA22-6866	GX22-6855
1017 Paper Tape Reader Models 1, 2	GA33-4500	GX22-6834	2415 Magnetic Tape Unit And Control Models 1-6	GA22-6866	GX22-6855
1018 Paper Tape Punch Model 1	GA33-4500	GX22-6834	2420 Magnetic Tape Unit Model 5	GA32-0007	GX22-6855
1051 Control Unit Models 1, N1	*	GX22-6894 GX24-3381	2420 Magnetic Tape Unit Model 7	GA22-6918	GX22-6855
1052 Printer-Keybaord Models 3, 5, 8	*	GX22-6894	2495 Tape Cartridge Reader Model 1	GA27-2726	GX22-6855
1052 Printer-Keybaord Model 7	GA22-6877	GX22-6894	2501 Card Reader Models B1, B2	GA21-9026	GX22-6834
1053 Printer Models 1, 4	*	GX22-6894	2520 Card Punch Modes B1-B3	GA21-9027	GX22-6834
1231 Optical Mark Page Reader Model N1	GA21-9031 (GA21-9012)	GX22-6860	2540 Card Read Punch Model 1	GA21-9033	GX22-6834
1255 Magnetic Character Reader Models 1-3	GA24-3542		2560 Multifunction Card Machine Model A1	GA26-5893	GX22-6894
1259 Magnetic Character Reader Model 2	GA24-3500	GX22-6860	2671 Paper Tape Reader Model 1	GA24-3388	GX22-6834
1285 Optical Reader Model 1	GA24-3256	GX22-6860	2701 Data Adapter Unit Model 1	GA22-6864	GX22-6857
1287 Optical Reader Model 1-4	GA21-9064	GX22-6860	2702 Transmission Control Model 1	GA22-6846	GX22-6857
1288 Optical Page Reader Model 1	GA21-9081	GX22-6860	2703 Transmission Control Model 1	GA27-2703	GX22-6857
1403 Printer Models 2, 3, 7, N1	GA24-3073 (GA24-3488)	GX22-6834	2803 Tape Control Models 1, 2, 3	GA22-6866	GX22-6855
1404 Printer Model 2	GA24-1446	GX22-6834	2804 Tape Control Models 1, 2, 3	GA22-6866	GX22-6855
1412 Magnetic Character Reader Model 1	GA24-1421	GX22-6860	2816 Switching Unit Model 1	GA22-6866	GX22-6855
1418 Optical Character Reader Models 1, 2	GA24-1473 (GA24-1452) (GA24-3081)	GX22-6860	2820 Storage Control Model 1	GA22-6895	GX22-6858
1418 Optical Character Reader Model 3	GA24-1473 (GA24-3059) (GA24-1452) (GA24-3081)	GX22-6860	2821 Control Unit Models 1-5	GA24-3312	GX22-6834
1419 Magnetic Character Reader Model 1	GA24-1499 (GA24-3342)	GX22-6860	2822 Paper Tape Reader Control Model 1	GA24-3388	GX22-6834
1419 Magnetic Character Reader Model 32	GA19-0023		2826 Paper Tape Control Models 1, 2	GA33-4500	GX22-6834
1428 Alphameric Optical Reader Models 1, 2	GA24-1473 (GA24-1452) (GA24-3081)	GX22-6860	2835 Storage Control Models 1, 2	GA26-1589	
1428 Alphameric Optical Reader Model 3	GA24-1473 (GA24-3059) (GA24-1452) (GA24-3081)	GX22-6860	2840 Display Control Model 2	GA27-2721	GX22-6859
1442 Card Read Punch Model N1, N2	GA21-9025	GX22-6834	2841 Storage Control Model 1	GA26-5988	GX22-6858
1443 Printer Model N1	GA24-3120 (GA24-3488)	GX22-6834	2844 Auxiliary Storage Control Model 1	GA26-3599	GX22-6858
1445 Printer Model N1	GA24-3120	GX22-6834	2848 Display Control Models 1-3, 21, 22	GA27-2700 (GC20-1688)	GX22-6859
1827 Data Control Unit Model 1	GA22-6868 (GA22-6872)	GX26-5508	8210 Console Printer - Keyboard Models 1, 2	GA24-3552	GX22-7006
2150 Console Model 1	GA22-6877	GX22-6859	3211 Printer	GA24-3543	
2250 Display Unit Model 1	GA27-2701 (GA27-2702)	GX22-6859	3215 Console Printer - Keyboard Model 1	GA24-3550	GX22-7006
2250 Display Unit Model 3	GA27-2721 (GA27-2723)	GX22-6859	3272 Control Unit Models 1 & 2	GA27-2739	
2260 Display Station Models 1, 2	GA27-2700 (GC20-1688)	GX22-6859	3277 Display Station	GA27-2739	
2285 Display Copier Model 1	GA27-2730	GX22-6859	3330 Disk Storage Model 1	GA26-1692	
2301 Drum Storage Model 1	GA22-6895 (GC20-1649)	GX22-6858	3420 Magnetic Tape Unit Models 3, 5, 7	GA32-0020	
2302 Disk Storage Models 3, 4	GA26-5988 (GC20-1649)	GX22-6858	3505 Card Reader Models B1, B2	GA21-9124	
2303 Drum Storage Model 1	GA26-5988	GX22-6858	3525 Card Punch Models P1-P3	GA21-9124	
2305 Fixed Head Storage Models 1, 2	GA26-1589		3803 Tape Control Model 1	GA32-0020	
2311 Disk Storage Drive Model 1	GA26-5988 (GC20-1649)	GX22-6858	3811 Control Unit	GA24-3543	
2312 Disk Storage Model A1	GA26-3599	GX22-6858	3830 Storage Control Model 1	GA26-1692	
2313 Disk Storage Model A1	GA26-3599	GX22-6858	4481 Film Reader - Recorder	GA36-0002	
2314 Direct Access Storage Facility Model 1, A Series, B Series	GA26-3599 (GC20-1649)	GX22-6858	7770 Audio Response Unit Model 3	GA27-2712	GX22-6857
2318 Disk Storage Model A1	GA26-3599	GX22-6858	7772 Audio Response Unit Model 3	GA27-2711 (GA27-2710)	GX22-6857
2319 Disk Storage Models A1-A3, B1 & B2	GA26-1606	GX22-6858			
2321 Data Cell Drive Model 1	GA26-5988 (GA26-3633) (GC20-1649)	GX22-6858			

PUBLICATIONS SHOWN IN PARENTHESES ARE RELATED BUT NOT PRIMARY REFERENCES.

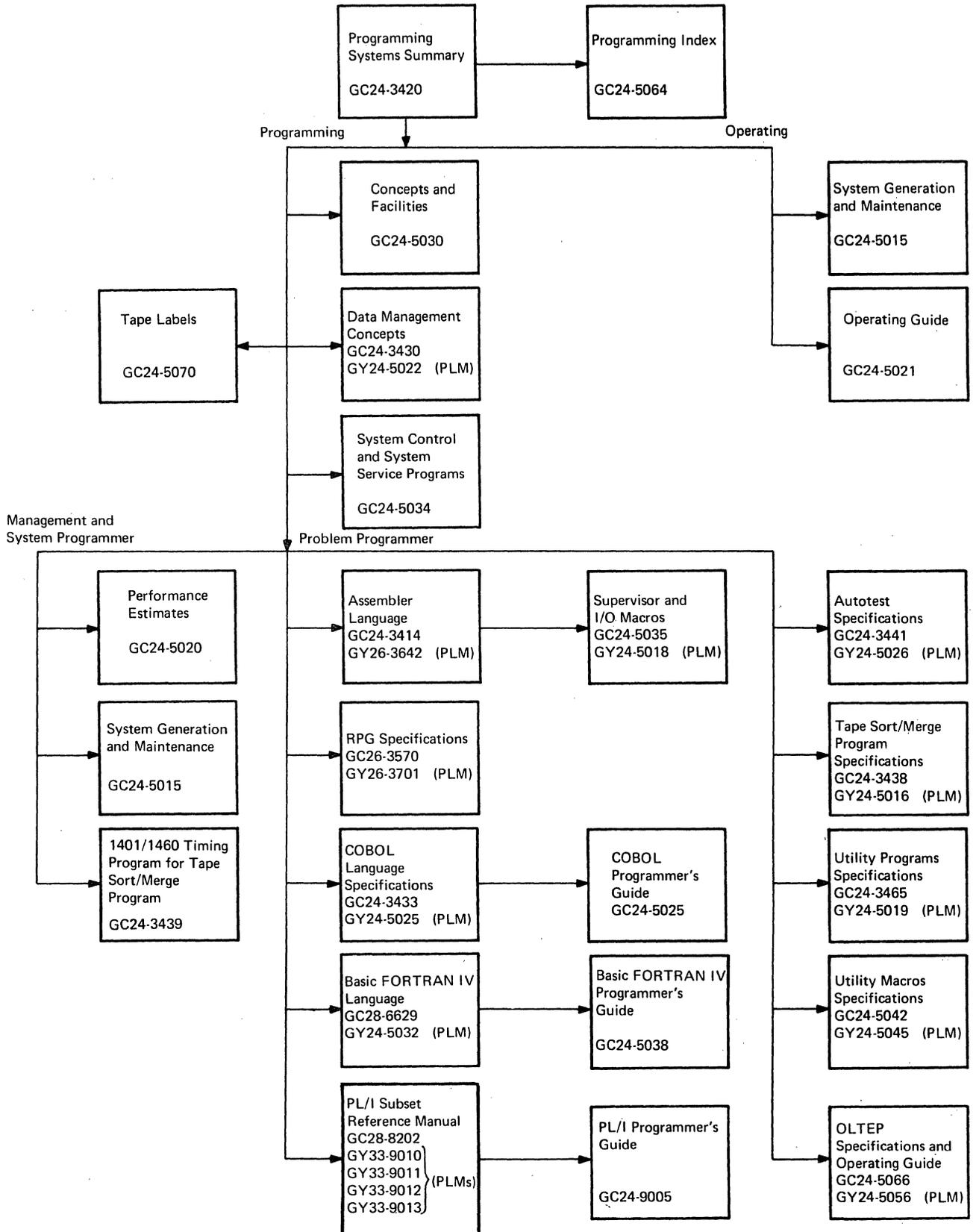
\* SEE IBM SRL BIBLIOGRAPHY SUPPLEMENT TELEPROCESSING, ORDER NUMBER GA24-3089.



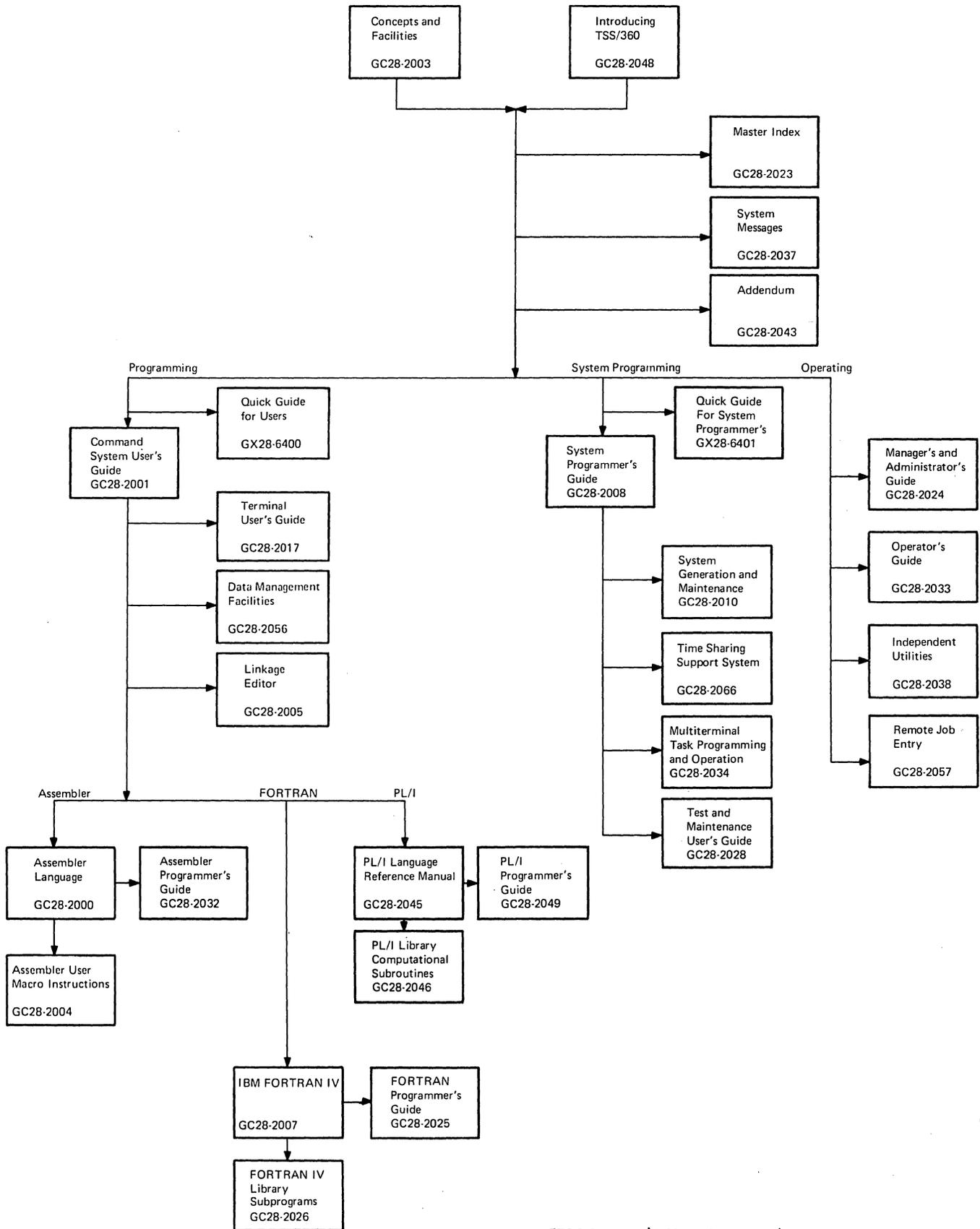
# Basic Operating System



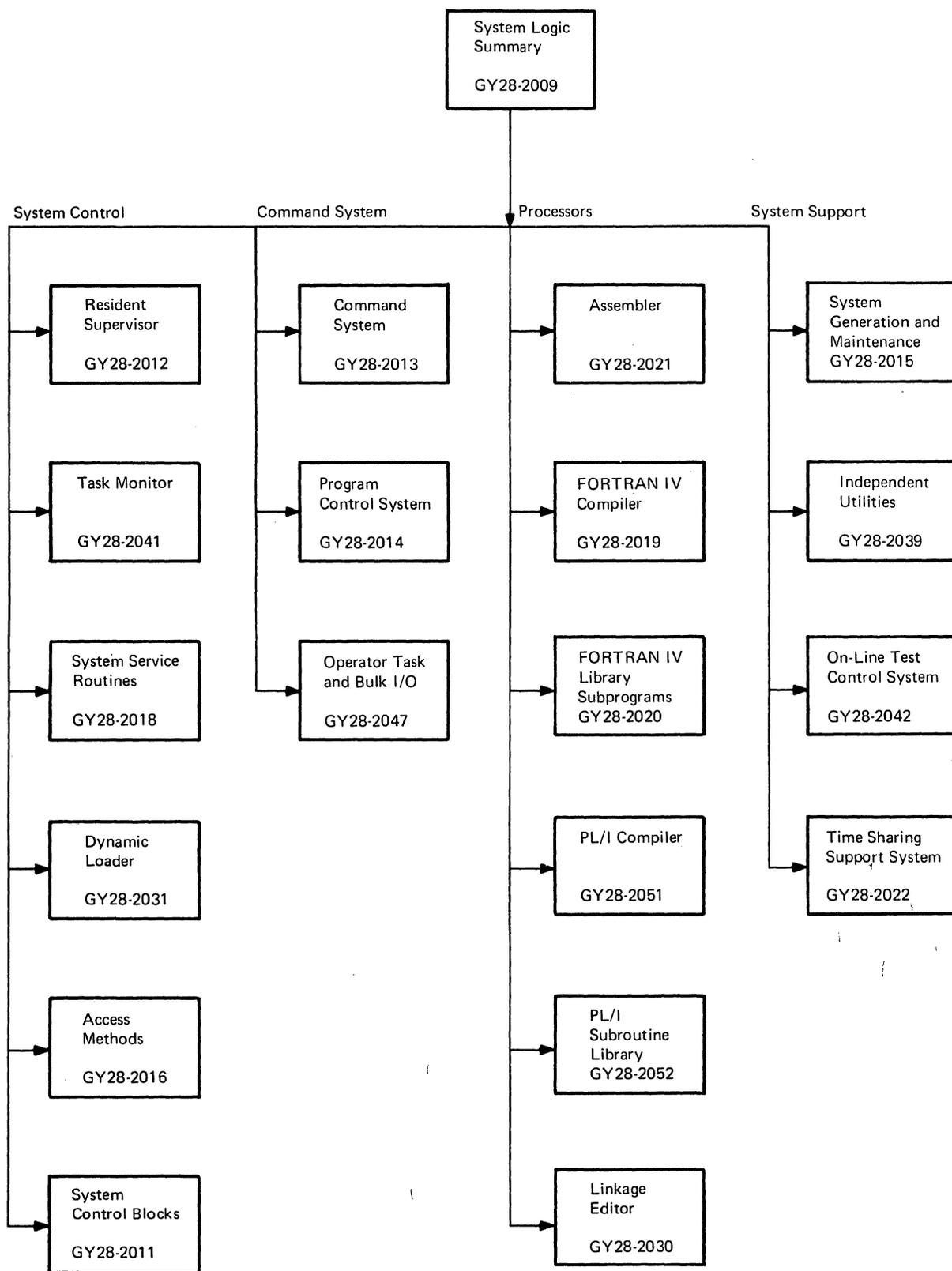
# Tape Operating System

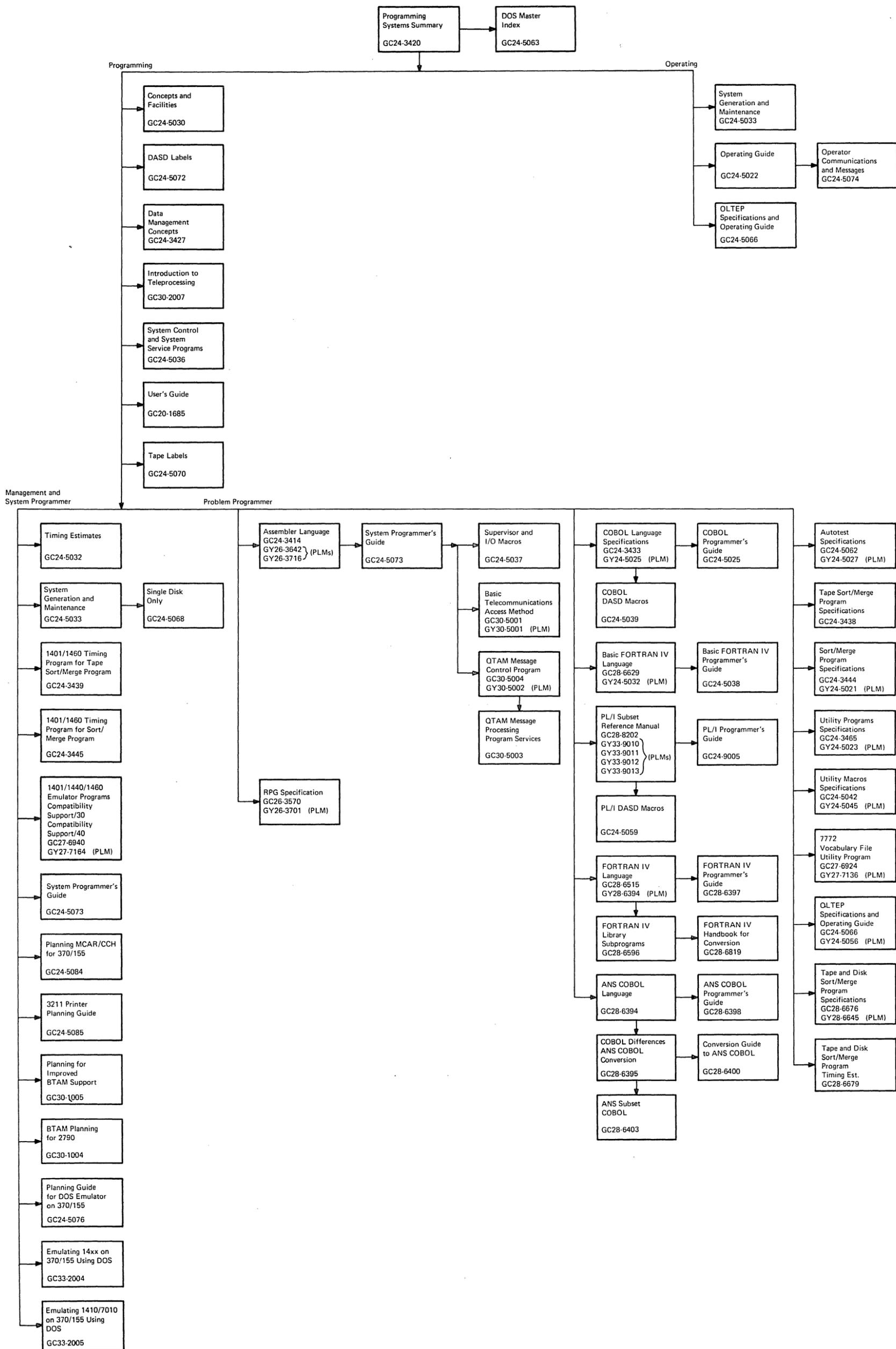


# Time Sharing System-SRLs

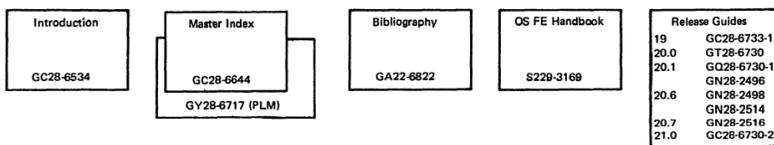


# Time Sharing System-PLMs





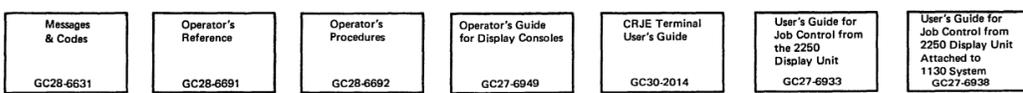
GENERAL



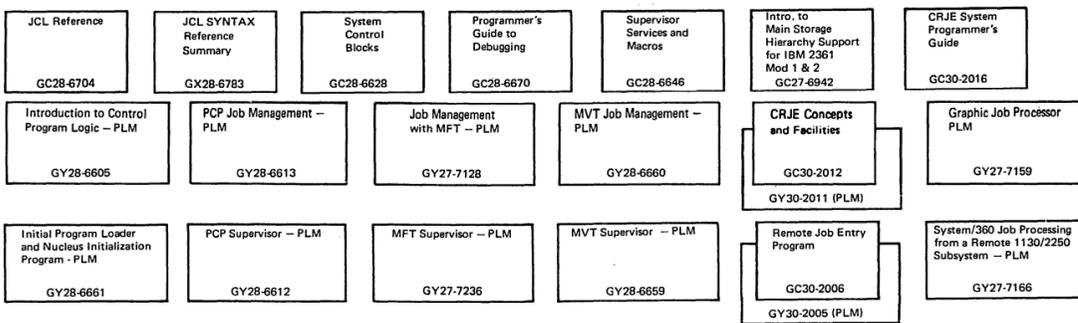
SYSTEM PLANNING/ INSTALLATION



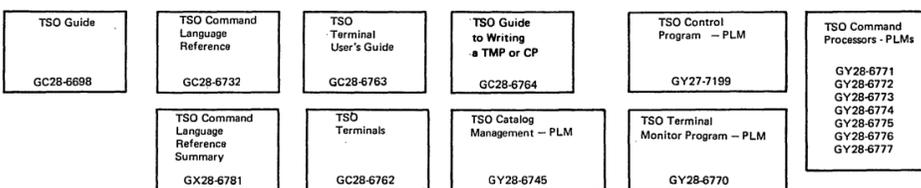
OPERATOR ORIENTED



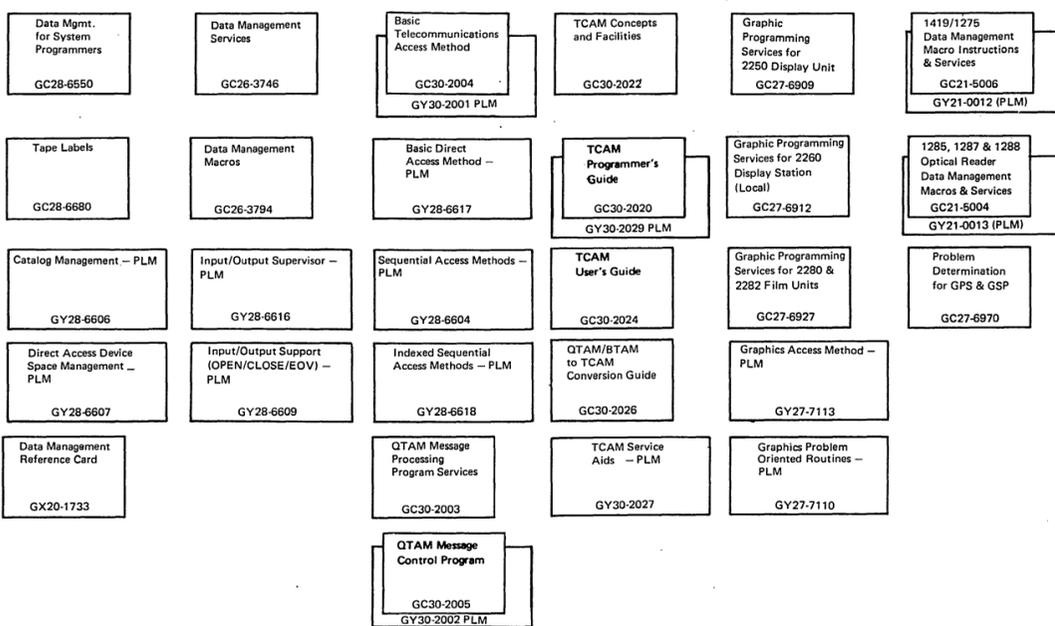
CONTROL PROGRAM



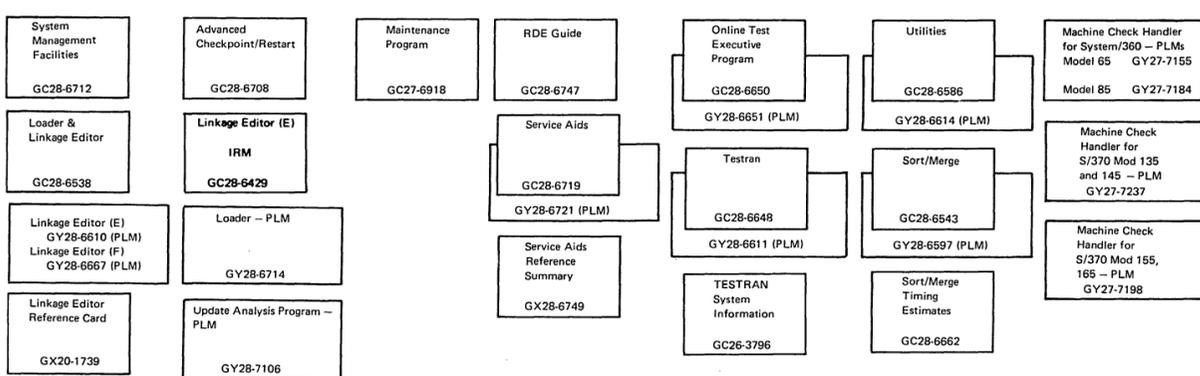
TIME SHARING



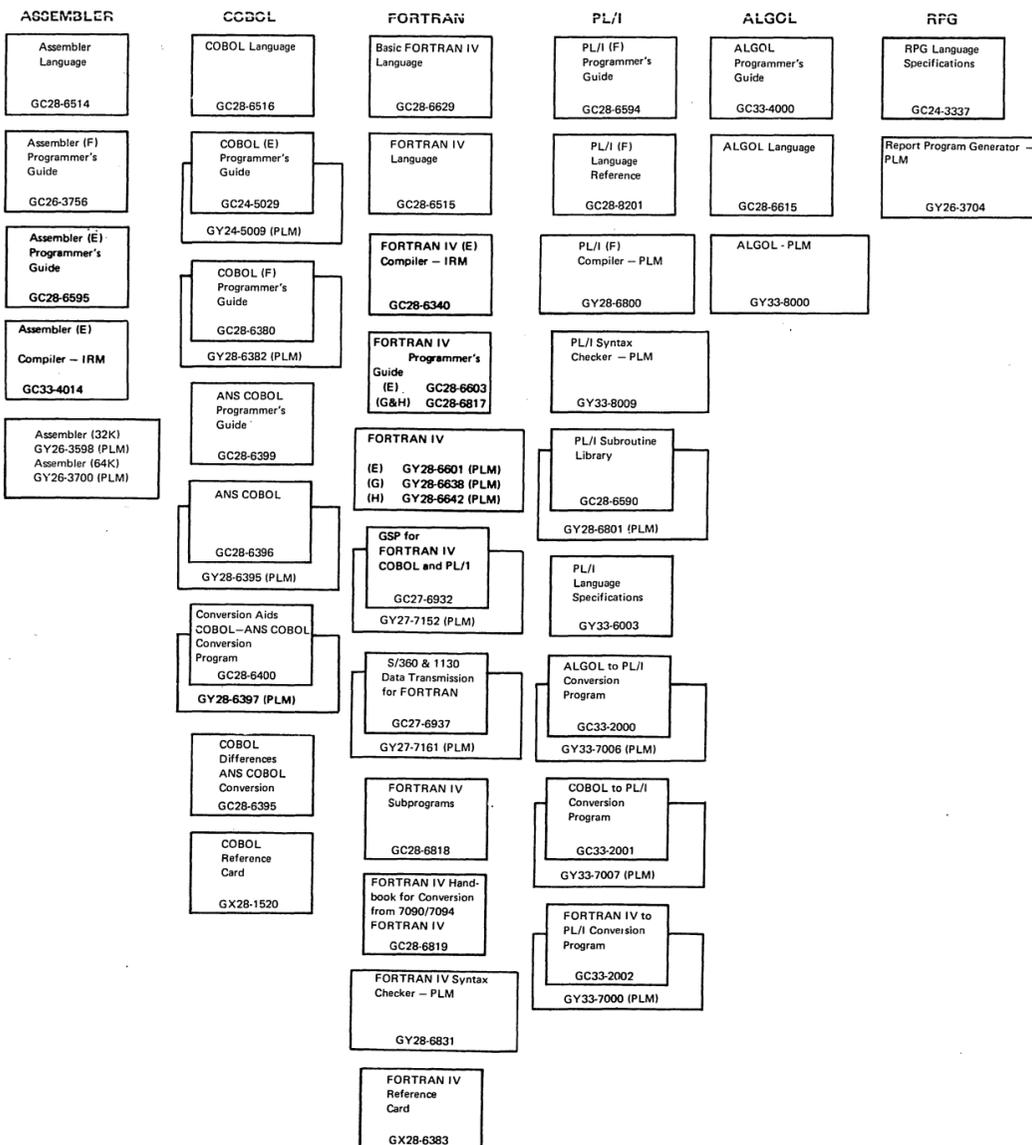
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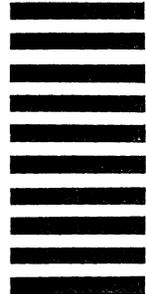
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