

00010

XLIST

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00030
00040 ,SYSMAK ASSUMES AN EXISTING SYSTEM WITH A LOADER IN CORE FOR JOB 1
00050 ,AND HIGHEST EMORY ADDRESS IN REAL 37. TO CREATE A NEW SYSTEM, SET
00060 ,37 AS DESIRED, LOAD NEW SYSTEM (WITHOUT GOING INTO EXECUTION), AND
00070 ,START AT REAL 62. THE COMPUTER WILL HALT AFTER THE NEW SYSTEM
00080 ,HAS BEEN BLOCKED DOWN. TO START, PRESS CONTINUE OR START AT REAL
00090 ,60. EXEC DDT (IF LOADED WITH THE NEW SYSTEM) STARTS AT REAL 141.
00100 ;FROM REL. LOC. 30 ON UP IS BLOCKED DOWN
00110
00120 ,WHEN LOADING A NEW SYSTEM, LOAD SYSINI FIRST.
00130 ;SYSINI CONTAINS A DISPATCH TABLE DOCUMENTED TO BE AT LOC. 60
00140 ;ALSO LOAD IOINIT LAST SINCE IT CONTAIN SOME ONCE ONLY CODE AT END
00150 ;THEN LOAD SYSMAK FOLLOWED BY DDT(EXEC)
00160 ;BE SURE THAT LOC SYSSIZ(SIZE OF SYSTEM) IS GREATER THAN
00170 ;LAST LOC IN SYSMAK BEFORE STARTING TO LOAD.
00180 ;LOC SYSSIZ IS IN LOWER CORE AND MAY HAVE TO BE PATCHED
00190 ;USING CONSOLE SWITCHES.
00200
00210 INTERNAL SYSMAK,MAKEND
00220 EXTERNAL JBTA DR,JBTAD1
00230
000000 200040 000000 00240 SYSMAK: MOVE 1,JBTAD1 ;LOADER BLOCK ADDRESS FROM JOB ADDRESS
000001 200301 000002 00250 MOVE 6,2(1) ;LOADER OFFSET
000002 271301 000000 00260 ADDI 6,(1) ;BLOCK ADDRESS+OFFSET
000003 200101 000006 00270 MOVE 2,6(1); SYMBOL TABLE POINTER: -N,L = LOWEST AD
000004 271101 000000 00280 ADDI 2,(1)
000005 564140 000002 00290 HLRO 3,2
000006 213000 000003 00300 MOVNS 3 ;N = SYMBOL TABLE LENGTH
000007 200200 000037 00310 MOVE 4,DDTMEM ;MEMORY SIZE(LOC 37)
000010 202206 000037 00320 MOVEM 4,DDTMEM(6) ;STORE IN NEW DDTMEM
000011 275200 000200 00330 SUBI 4,200 ;ROOM FOR DECDUMP
000012 202206 000036 00340 MOVEM 4,DDTSYM(6) ;ALSO STORE IN WHAT WILL BECOME DDTSYM
000013 200240 000002 00350 MOVE 5,2 ;LEAVES ROOM FOR DECDMP
000014 270240 000003 00360 ADD 5,3
000015 504240 000003 00370 HRL 5,3 ;C(5):=N,L+N
000016 274200 000005 00380 SUB 4,5
000017 553000 000004 00390 HRRZS 4 ;C(4):=0,C(37)-200-(L+N)
000020 270100 000004 00400 ADD 2,4 ;C(2):=-N,C(37)-200-N
000021 202105 000000 00410 MOVEM 2,(5)
000022 542200 000023' 00420 HRRM 4,..+1
000023 262245 000000 00430 POP 5,(5) ;MOVE SYMBOL TABLE TO TOP OF MEORY
000024 325240 000023' 00440 JUMPGE 5,..-1
000025 200400 000034' 00450 MOVE 10,[BLT 3,(2)]
000026 200440 000035' 00460 MOVE 11,[JRST 4,]
000027 541140 000030 00470 HRRI 3,30
000030 505146 000030 00480 HRLI 3,30(6) ;C(3):=LOADER OFFSET+LOADER BLOCK ADDRE
000031 550101 000006 00490 HRRZ 2,6(1) ;C(2):=LOWEST LOCATION IN SYMBOL TABLE
000032 540441 000000 00500 HRR 11,(1) ;C(11):=JRST 4,START ADDRESS
000033 254000 000010 00510 JRST 10 ;MOVE SYSTEM TO BOTTOM OF MEMORY AND HALT
00520
00530 LIT
00540
00550 MAKEND: END,

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PROGRAM BREAK IS 000036

A	000000	INT
AC1	000015	INT
AC2	000016	INT
AC3	000017	INT
AL	000001	INT
ASSCON	400000	INT
ASSPRG	200000	INT
R	000014	INT
BUFPNT	000012	INT
BUFWRD	000013	INT
CLOSE	002000	INT
D	000017	INT
DAT	000005	INT
DCL	000001	INT
DCW	020000	INT
DDI	000007	INT
DDO	000006	INT
DDTMEM	000037	INT
DDTSYM	000036	INT
DEN	000004	INT
DEVADR	000007	INT
DEVBUF	000006	INT
DEVCHR	000001	INT
DEVCTR	000011	INT
DEVDAT	000006	INT
DEVIAD	000007	INT
DEVIOS	000002	INT
DEVLOG	000005	INT
DEVMOD	000004	INT
DEVNAM	000000	INT
DEVOAD	000010	INT
DEVPTR	000010	INT
DEVSER	000003	INT
DGF	000012	INT
DIN	000003	INT
DLK	000005	INT
DOU	000002	INT
DR	000016	INT
DRL	000000	INT
DSI	000011	INT
DSO	000010	INT
DTW	040000	INT
DVAVAL	000040	INT
DVDIR	000004	INT
DVDIRI	400000	INT
DVIN	000002	INT
DVLPT	040000	INT
DVMTA	000020	INT
DVOUT	000001	INT
DVTTY	000010	INT
ENTRB	020000	INT
I	000010	INT
IB	000013	INT
IBUFB	200000	INT
INITR	400000	INT

INPB	010000	INT
IO	000020	INT
IOACT	010000	INT
IOREG	000002	INT
IORKTL	040000	INT
IOCON	000040	INT
IODEND	020000	INT
IODERR	200000	INT
IODISC	400000	INT
IODONE	400000	INT
IODTER	100000	INT
IOFND	000040	INT
IOFST	000004	INT
IOIMPM	400000	INT
IONRCK	000100	INT
IORDEL	000100	INT
IORET	000020	INT
IOS	000000	INT
IOSTRT	000010	INT
IOUSE	400000	INT
IOW	000001	INT
IOWC	000020	INT
IOWS	400000	INT
ITFM	000004	INT
JBFAADR	000000	INT
JBFCR	000002	INT
JBFPTR	000001	INT
JBTAD1	000000	EXT
JBTADR	000000	EXT
JBUF	000005	INT
JDAT	000011	INT
JERR	002000	INT
JIOW	100000	INT
JNA	004000	INT
LOOKR	040000	INT
MAKEND	000036	INT
MTW	010000	INT
OBUFR	100000	INT
OUTPR	004000	INT
PDP	000003	INT
PICHN	000100	INT
PROG	000007	INT
RUN	200000	INT
RUNARL	204000	INT
SYSMAK	000000	INT
TAC	000001	INT
TAC1	000002	INT
TEM	000010	INT
TTYATC	020000	INT
TTYUSE	010000	INT
USRMOD	010000	INT
UUO	000014	INT

END OF ASSEMBLY