

00010

XLIST

01970

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00030
00040 ;          PUSHJ PDP, CORE1      ;ITEM = JOB #. TAC = 1K CORE BLOCKS
00050 ;                                     ;REQUESTED
00060 ;          RET1                   ;OLD CORE RETURNED.
00070 ;          RET2                   ;OLD CORE RETURNED.  JBTADR, JOBREL ARE
00080 ;                                     ;SET UP
00090 ; JBADR (ITEM) = POINTER TO JOB AREA. JOBREL (JBTADR) = HIGHEST LOCAT
00100 ; C(RH) JBTADR IS SET TO 0 OR REQUESTED CORE. JOBREL IS SET IF CORE G
00110 ; TAC = CORTALLY AT EXIT.
00120 ; NOT A PURE PROCEDURE ...
00130 ;CORTAL: 0                          ;COUNT OF FREE CORE
00140 ;CORTAB: BLOCK +D2                  ;TABLE OF 72 BITS. 1 BIT FOR
00150 ;1K OF CORE. 1 = USED. 0 = FREE
00160 ;CORLST: POINT 1, CORTAB, 32      ;POINTER FIRST OUT OF BOUNDS
00170 ;
00180 ;TEMPORARY USAGE
00190 CORUSZ: 0                          ;SIZE OF USERS CODE, OLD.-NEW
00200 CORLOC: 0                          ;POSITION OF 1ST FREE BLOCK
00210 ;
00220 ;AC ASSIGNMENTS
00230 COR1=BUFPNT
00240 COR2=BUFWRD
00250 COR3=UUO
00260 INTERNAL CORE1
00270 EXTERNAL JBTADR, JOBREL, CORLST, CORTAL, CORTAB
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000000 000000 000000
000001 000000 000000

			00280		
			00290		
000002	135500	000042'	00300	CORE1:	LDB COR1, CORE1P
000003	202500	000001'	00310		MOVEM COR1, CORLOC
000004	322500	000013'	00320		JUMPE COR1, CORGET ;IF 0 NO CORE NOEW.
000005	554504	000000	00330		HLRZ COR1, JBTADR(ITEM) ;CLEAR OLD CORE
000006	350000	000012	00340		AOS COR1 ;HIGHEST ADDRESS AVAIL. FORM
000007	240500	777766	00350		ASH COR1, -D10
000010	202500	000000'	00360		MOVEM COR1, CORUSZ
000011	402000	000014	00370	CORRET:	CLEARM COR3 ;RETURN OLD CORE
000012	260140	000056'	00380		PUSHJ PDP, CORSTG
000013	402004	000005'	00390	CORGET:	SETZM JBTADR(ITEM) ;CLEAR JOB ADDRESS TO 0
000014	322040	000037'	00400		JUMPE TAC, COROK ;IF NO CORE TO GET, RETURN
000015	200600	000043'	00410		MOVE COR3, CORE2P ;SET UP FOR
000016	476000	000001'	00420		SETOM CORLOC ;HOLE SEARCH
000017	260140	000044'	00430	CORG1:	PUSHJ PDP, CORHOL
000020	254000	000040'	00440		JRST CORNG ;UNSUCCESSFUL SEARCH
000021	315500	000001	00450		CAMGE COR1, TAC ;HOLE FOUND
000022	254000	000017'	00460		JRST CORG1
000023	213000	000012	00470	CORGVE:	MOVNS COR1 ;BACKUP CORLOC
000024	272500	000001'	00480		ADDM COR1, CORLOC
000025	202040	000000'	00490		MOVEM TAC, CORUSZ ;RESERVE HOLE FOR JOB
000026	201600	000001	00500		MOVEI COR3, 1 ;SET CORTAB
000027	260140	000056'	00510		PUSHJ PDP, CORSTG
000030	200500	000001'	00520		MOVE COR1, CORLOC ;C(RH)=RELOC, C(LH)=PROTECT
000031	240500	000012	00530		ASH COR1, D10
000032	542504	000013'	00540		HRRM COR1, JBTADR(ITEM)
000033	240040	000012	00550		ASH TAC, D10
000034	275040	000001	00560		SUBI TAC, 1
000035	542052	000000	00570		HRRM TAC, JOBREL (COR1)
000036	506044	000032'	00580		HRLM TAC, JBTADR(ITEM)
000037	350003	000000	00590	COROK:	AOS (PDP)
000040	200040	000000	00600	CORNG:	MOVE TAC, CORTAL
000041	263140	000000	00610		POPJ PDP,
			00620		
000042	121004	000036'	00630	CORE1P:	POINT 8, JBTADRR(ITEM),25
000043	440100	000000	00640	CORE2P:	POINT 1, CORTAB

			00650	
			00660	
			00670	; PUSHJ PDP, CORHOL ;COR1-HOLES FREE, COR2=TEMP
			00680	; RETURN1 ;COR3=POINTER. RETURN1=END OF STRING RE
			00690	; RETURN2 ;HOLE FOUND.
			00700	; CORLOC CONTAINS 0,1.. N, THE CORE BLK PTR. CORLST IS PTR TO
			00710	; STOP STRING TEST
000044	402000	000012	00720	CORHOL: CLEARM COR1
000045	316600	000000	00730	CORH01: CAMN COR3, CORLST ;TEST DONE
000046	263140	000000	00740	POPJ PDP,
000047	134540	000014	00750	ILDB COR2, COR3 ;TEST NEXT BLOCK
000050	350000	000001	00760	AOS CORLOC
000051	336000	000013	00770	SKIPN COR2
000052	344500	000045	00780	AOJA COR1, CORH01 ;COUNT FREE
000053	322500	000045	00790	JUMPE COR1, CORH01
000054	350003	000000	00800	AOS (PDP)
000055	263140	000000	00810	POPJ PDP,
			00820	::; PUSHJ PDP, CORSTG ;CORUSZ=SIZE RESERVED. CORLOC=LOCATION
			00830	; IF COR3=0, THEN FREE CORE
			00840	; IF COR3=1, THEN RESERVE CORE.
			00850	; USES COR1, COR2, COR3
			00860	; CORTAL=COUNT OF FREE CORE, AND IS UPDATED
000056	261140	000001	00870	CORSTG: PUSH PDP, TAC ;SAVE NO. OF BLOCKS BEING REQ
000057	200540	000000	00880	MOVE COR2,CORUSZ ;FIX CORTALLY
000060	332000	000014	00890	SKIPE COR3
000061	213000	000013	00900	MOVNS COR2
000062	272540	000040	00910	ADDM COR2, CORTAL
000063	200040	000001	00920	MOVE TAC, CORLOC ;GET POINTER-1
000064	231040	000044	00930	IDIVI TAC, +D36 ;TAC=WORD,TAC1=BIT
000065	270040	000076	00940	ADD TAC, CORLP1 ;FORM BYTE POINTER
000066	213000	000002	00950	MOVNS TAC1
000067	271100	000044	00960	ADDI TAC1, +D36
000070	137100	000077	00970	DPB TAC1, [POINT 6, TAC, 5]
000071	200540	000000	00980	MOVE COR2, CORUSZ
000072	136600	000001	00990	CORLOP: DPBI COR3, TAC ;SET OR CLEAR EACH BIT IN USE
000073	367540	000072	01000	SOJG COR2, CORLOP
000074	262140	000001	01010	POP PDP, TAC
000075	263140	000000	01020	POPJ PDP,
			01030	
000076	000100	000043	01040	CORLP1: XWD 100, CORTAB
			01050	
000077	360600	000001	01060	END,

THERE ARE NO ERRORS

PROGRAM BREAK IS 000100

CORE - CORE ALLOCATION ROUTINE
 SYMROL TABLE

A	000000	INT
AC1	000015	INT
AC2	000016	INT
AC3	000017	INT
AL	000001	INT
ASSCON	400000	INT
ASSPRG	200000	INT
B	000014	INT
BUFPNT	000012	INT
BUFWRD	000013	INT
CLOSB	002000	INT
CLSIN	000002	INT
CLSOUT	000001	INT
COR1	000012	
COR2	000013	
COR3	000014	
CORE1	000002'	INT
CORE1P	000042'	
CORE2P	000043'	
CORG1	000017'	
CORGET	000013'	
CORGVE	000023'	
CORH01	000045'	
CORH0L	000044'	
CORLOC	000001'	
CORLOP	000072'	
CORLP1	000076'	
CORLST	000045'	EXT
CORNG	000040'	
COROK	000037'	
CORRET	000011'	
CORSTG	000056'	
CORTAB	000076'	EXT
CORTAL	000062'	EXT
CORUSZ	000000'	
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

CORE - CORE ALLOCATION ROUTINE
 SYMBOL TABLE

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
DVCDR	100000	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
IBUFR	200000	INT
INITB	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
ITEM	000004	INT
JBFAADR	000000	INT
JBFACTR	000002	INT
JBFPTR	000001	INT
JBTAADR	000042	EXT
JBUF	000005	INT
JDAT	000011	INT

CORE - CORE ALLOCATION ROUTINE
SYMBOL TABLE

PAGE 8

JERR	002000	INT
JIOW	100000	INT
JNA	004000	INT
JORREL	000035	EXT
LOOKB	040000	INT
MTW	010000	INT
OBUFB	100000	INT
OUTPR	004000	INT
PDP	000003	INT
PICHN	000100	INT
PROG	000007	INT
RUN	200000	INT
RUNABL	204000	INT
TAC	000001	INT
TAC1	000002	INT
TEM	000010	INT
TTYATC	020000	INT
TTYUSE	010000	INT
USRMOD	010000	INT
UU0	000014	INT

END OF ASSEMBLY