

00010

XLIST

01970

		00030	
		00040	EXTERNAL UXIT,ERROR,USRDDT,USRPOV,PUUOAC,USRREL
		00050	
		00060	;RETURN THE DATE TO THE USER
		00070	
		00080	INTERNAL DATE,THSDAT
		00090	
000000	200240 000002'	00100	DATE: MOVE DAT, THSDAT
000001	254000 000005'	00110	JRST STOAC
		00120	
000002	000000 000000	00130	THSDAT: 0 ;CONTAINS THE DATE
		00140	
		00150	;RETURN TIME SYSTEM HAS RUN IN 60THS OF A SECOND
		00160	
		00170	INTERNAL TIMER
		00180	EXTERNAL TIME
		00190	
000003	334240 000000	00200	TIMER: SKIPA DAT, TIME ;FALL INTO STOAC
		00210	
		00220	;RETURN DATA SWITCHES
		00230	
		00240	INTERNAL SWITCH
		00250	
000004	700040 000005	00260	SWITCH: DATAI DAT
		00270	
		00280	
		00290	;STORE DAT IN USER AC
		00300	
		00310	INTERNAL STOAC
		00320	
000005	135040 000000	00330	STOAC: LDB TAC, PUUOAC
000006	505040 000007	00340	HRLI TAC, PROG
000007	202260 000001	00350	MOVEM DAT,@TAC
000010	254000 000000	00360	JRST UXIT
		00370	
		00380	;RETURN DEVICE CHARACTERISTICS
		00390	
		00400	INTERNAL DVCHR
		00410	EXTERNAL JOB,DEVSRV,PJOBN
		00420	
000011	200200 000000	00430	DVCHR: MOVE ITEM,JOB
000012	260140 000000	00440	PUSHJ PDP,DEVSRV ;SEARCH FOR DEVICE
000013	334240 000034'	00450	SKIPA DAT,[0] ;NOT A DEVICE
000014	334246 000004	00460	SKIPA DAT,DEVMOD(DEVDAT)
000015	254000 000005'	00470	JRST STOAC
000016	135040 000000	00480	LDB TAC,PJOBN ;GET JOB NUMBER
000017	312040 000011'	00490	CAME TAC,JOB ;DOES USER ALREADY HAVE THIS DEVICE?
000020	606240 600000	00500	TRNN DAT,ASSCON+ASSPRG ;NO
000021	661240 000040	00510	TLO DAT,DVAVAL ;NO, BUT HE CAN GET IT
000022	254000 000005'	00520	JRST STOAC

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00530
00540 , CALLING SEQUENCE
00550 ,     PUSHJ PDP,HASH
00560 ,     EXIT;                ALWAYS RETURNS HERE
00570 , COMPUTES XOR HASH TYPE INDEX FROM NAME (SIXBIT CODE) IN AC DAT
00580 , AND LEAVES THE RESULT (00<OR= INDEX <OR=77) AS AN INTEGER IN TAC.
00590 , THE ALGORITHM IS AS FOLLOWS: (V = EXCLUSIVE OR)
00600 , BIT      35:=8V17V26V35
00610 ,         34:=7V16V25V34
00620 ,         33:=6V15V24V33
00630 ,         32:=5V11V23V29
00640 ,         31:=4V10V22V28
00650 ,         30:=3V9V21V27
00660 , MONITOR INTERFACE
00670 ,     SYMBOLS SET/USED:
00680 ,                     ACCUMULATORS:      DAT U      TAC S/U
00690 ,                     PDP S/U            TAC1 S/U
00700 ;     INTERN HASH
00710
00720
00730 ;HASH:  HLR TAC,DAT
00740 ;      MOVE TAC1,DAT
00750 ;      XORB TAC1,TAC
00760 ;      ROT TAC1,-11
00770 ;      XOR TAC,TAC1
00780 ;      ANDI TAC,UTBNM1
00790 ;      POPJ PDP,          ;      RETURN

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		00800		
		00810	INTERNAL SETDDT	
		00820		
000023	505040 010000	00830	SETDDT:	HRLI TAC,10000
000024	202040 000000	00840		MOVEM TAC,USRDDT
000025	254000 000010'	00850		JRST UEXIT
		00860		
		00870		
		00880	INTERNAL SETPOV	
		00890		
000026	505040 010000	00900	SETPOV:	HRLI TAC,10000
000027	202040 000000	00910		MOVEM TAC,USRPOV
000030	254000 000025'	00920		JRST UEXIT
		00930		
		00940	;WAIT FOR IO TO BECOME INACTIVE ON CHANNEL AC	
		00950		
		00960	INTERNAL WAIT	
		00970	EXTERNAL IOIERR, WAIT1	
		00980		
000031	322300 000000	00990	WAIT:	JUMPE DEVDAT,IOIERR ;CHANNEL ASSIGNED?
000032	260140 000000	01000		PUSHJ PDP,WAIT1 ;WAIT TILL INACTIVE
000033	254000 000030'	01010		JRST UEXIT
000034	000000 000000	01020		END,

THERE ARE NO ERRORS

PROGRAM BREAK IS 000035

SYSCSS - COMMON SYSTEM SUBROUTINES
SYMBOL TABLE

PAGE 6

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
CLOSR	002000	INT
CLSIN	000002	INT
CLSOUT	000001	INT
D	000017	INT
DAT	000005	INT
DATE	000000	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
DEVSRC	000012	EXT
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
DVCHR	000011	INT
DVDIR	000004	INT
DVDIRI	400000	INT
DVIN	000002	INT
DVLPT	040000	INT
DVMTA	000020	INT
DVOUT	000001	INT

SYSCSS - COMMON SYSTEM SUBROUTINES
SYMBOL TABLE

PAGE 7

DVTTY	000010	INT
FNTRB	020000	INT
ERROR	000000	EXT
I	000010	INT
IB	000013	INT
IBUFB	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
IOIERR	000031	EXT
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
JBFCR	000002	INT
JBFPTR	000001	INT
JBUF	000005	INT
JDAT	000011	INT
JERR	002000	INT
JLOW	100000	INT
JNA	004000	INT
JOB	000017	EXT
LOOKB	040000	INT
MTW	010000	INT
OBUFF	100000	INT
OUTPB	004000	INT
PDP	000003	INT
PICHN	000100	INT
PJOB	000016	EXT
PROG	000007	INT
PUUOAC	000005	EXT
RUN	200000	INT
RUNABL	204000	INT
SETDDT	000023	INT
SETPOV	000026	INT
STOAC	000005	INT

SWITCH	000004'	INT
TAC	000001	INT
TAC1	000002	INT
TEM	000010	INT
THSDAT	000002'	INT
TIME	000003'	EXT
TIMER	000003'	INT
TTYATC	020000	INT
TTYUSE	010000	INT
USRDDT	000024'	EXT
USRMOD	010000	INT
USRPOV	000027'	EXT
USRREL	000000	EXT
UUO	000014	INT
UXIT	000033'	EXT
WAIT	000031'	INT
WAIT1	000032'	EXT

END OF ASSEMBLY