

00010

XLIST

01970

| | |
|-------|--|
| 00030 | |
| 00040 | |
| 00050 | EXTERNAL CLOSE1, ILLINS, IN, JOBAC, JOBADR, JOB DAT |
| 00060 | EXTERNAL MTAPE1, OUT, RELEA1, UINBF, UINIT, UOUTBF |
| 00070 | EXTERNAL USRJDA, USRSV, USTATO, USTATS, USTATZ |
| 00080 | EXTERNAL ERROR, UUOERR, CLDS, CLEN |
| 00090 | EXTERNAL IOIERR, MJOBPD, JOBPDL, WAIT1, USRREL, PUUOAC |
| 00100 | EXTERNAL JOBPDL, MJOBPD, USETST |

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00110
00120
00130 , DEC 06 00 EX UUU L PT PRE 06 UUU HANDLER
00140 , 3/10/65
00150 , ALL UUOS DROP THEMSELVES IN REAL LOCATION 40, AND TRAP
00160 , TO 41. THE UUU HANDLER SHUFFLES THE UUU OFF TO THE USERS
00170 , 40,41, IF IT IS NOT A SYSTEM UUU.
00180 , SYSTEM UUOS FALL INTO THREE CLASSES, HANDLED DIFFERENTLY
00190 , (1) SYSTEM FUNCTIONS: LOAD ACS PDP, PROG, AND DISPATCH TO THE
00200 , FUNCTION.
00210 , (2) DEVICE INDEPENDENT I/O UUU: ALSO LOAD ACS DEVDAT AND IOS
00220 , AND GO THE THE SYSTEM FUNCTION.
00230 , (3) DEVICE DEPENDENT I/O UUOS: DO (1) AND (2), THEN DISPATCH
00240 , THROUGH THE TABLE WHOSE ADDRESS IS IN THE RIGHT HALF OF DEVSER(DEV
00250 , CONTROL MAY ALWAYS BE RETURNED BY EXECUTING A
00260 , JRST UXIT
00270 , WHICH WILL RESTORE THE ACS, ARP BITS, AND RETURN.
00280 , THE UUU HANDLER IS PURE IF THE FOLLOWING RESTRICTIONS ARE OBSERVED.
00290 , RESTRICTIONS: UUOS CANNOT BE CALLED BY INTERRUPT SERVICE ROUTINES.
00300 , MONITOR INTERFACE
00310 , STORAGE: 89
00320 , ROUTINES CALLED: ILLINS, ADRCK, EXCLK, UUOH, SETIOS,UUOUSR
00330 , UUOS CALLED: CALL, INIT, RELEAS, CLOSE, OUTBUF, INBUF
00340 , STATS, STATO, STATZ, OUTPUT, INPUT
00350 , DEVICE DEPENDENT: DEN, DLK, DSO, DSI, DGF
00360 , SYMBOLS SET/USED:
00370 , ACCUMULATORS: PDP S/U TAC S/U
00380 , PROG S/U TAC1 S/U
00390 , SUB S UUU S
00400 , SYSTEM PARAMETERS: UIO U
00410 , USYS U
00420 , USYSN U
00430 , JOB AREA: JOBAC U JOB DAT U
00440 , JOBPDP U
00450 , SYSTEM ADDRESSES: CLK S/U
00460 , JOBADR U
00470 , USRLEV S/U
00480 , DEVICE DATA BLOCK: DEVSER U
00490 , INTERNAL ADDRESSES: 40 S/U
00500 , UUU0 S/U
00510 , UUUOSAV S/U
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000000 000000 000000
000001 250040 000040
000002 202740 000000
000003 603040 077000
000004 603040 740000
000005 254000 000030
000006 200740 000000
000007 202057 000040
000010 550057 000041
000011 322040 000030
000012 500040 000000
000013 607040 010000
000014 254000 000030
000015 201741 000000
000016 317740 000000
000017 541041 000001
000020 250040 000000
000021 313740 000016
000022 254000 000025
000023 270740 000006
000024 202057 000000
000025 200040 000040
000026 200740 000002
000027 254120 000000

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INTERNAL UO00

UU00:

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0
EXCH TAC,40
MOVEM 17,USRSAV
TLNE TAC,77000
TLNE TAC,740000
JRST UOSYS
MOVE 17,JOBADR
MOVEM TAC,40(17)
HRRZ TAC,41(17)
JUMPE TAC,UOSYS
HLL TAC,UU00
TLNN TAC,USRMOD
JRST UOSYS
MOVEI 17,(TAC)
CAMG 17,USRREL
HRRI TAC,1(TAC)
EXCH TAC,UU00

CAMLE 17,USRREL
JRST .+3 ;NO, DONT STORE PC
ADD 17,JOBADR
MOVEM TAC,(17)
MOVE TAC,40
MOVE 17,USRSAV
JRST 2,@UU00

;SAVE TAC; PICK UP UO0
;SAVE 17
;0 UO0 IS ILLEGAL
;UO0 FOR SYSTEM?
;YES
;GET JOB AREA ADDRESS
;STORE UO0 IN USERS 40
;PICK UP ADR OF USERS JSR
;IF ADDRESS=0,ILLEGAL USER UU
;PICK UP PROCESSOR FLAGS FOR
;WAS UO0 FROM USER?
;NO, ILLEGAL UO0 FROM SYSTEM
;17 NOW HAS REL. ADR. OF USER
;DONT INCREMENT RETURN IF PC
;INCREMENT PC
;SET UP RETURN TO USER, PICK
;UP USERS FLAGS,PC
;LEGAL MEMORY?

;MAKE REL. ADR. INTO ABS. ADR
;STORE FLAGS AND PC LIKE JSR
;RESTORE TAC
;RESTORE 17
;RETURN TO USER

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|--------|--------|---------|-------|---------|--|
| | | | 00810 | | |
| | | | 00820 | | |
| 000030 | 250040 | 000040 | 00830 | UUOSYS: | EXCH TAC,40 ;RESTORE TA, RESTORE THE UO0 |
| 000031 | 200740 | 000000' | 00840 | | MOVE 17,UU00 ;PICK UP PROCESSOR FLAGS |
| 000032 | 607740 | 010000 | 00850 | | TLNN 17,USRMOD ;SYSTEM UO0 FROM SYSTEM? |
| 000033 | 254000 | 000046' | 00860 | | JRST UUOSY1 ;YES |
| 000034 | 200740 | 000023' | 00870 | | MOVE 17,JOBADR ;NO, PICK UP ADR. OF USER PRO |
| 000035 | 202717 | 000016 | 00880 | | MOVEM 16,16(17) ;STORE AC16 IN USER 16 |
| 000036 | 550700 | 000017 | 00890 | | HRRZ 16,17 ;SET UP BLT POINTER |
| 000037 | 251717 | 000015 | 00900 | | BLT 16,15(17) ;MOVE REAL ACS TO USER AREA |
| 000040 | 200000 | 000026' | 00910 | | MOVE 0,USRSAV ;MOVE USER 17 TO USERS AREA |
| 000041 | 202017 | 000017 | 00920 | | MOVEM 0,17(17) |
| | | | 00930 | | |
| 000042 | 200440 | 000000 | 00940 | | MOVE JDAT,JOB DAT ;LOAD UP JOB DATA AREA ADDRES |
| 000043 | 205140 | 000000 | 00950 | | MOVSI PDP,MJOBPD ;LOAD UP PUSH DOWN AC AND |
| 000044 | 541151 | 000000 | 00960 | | HRRI PDP,JOBPDL(JDAT) ;MAKE ABSOLUTE RATH |
| 000045 | 334340 | 000017 | 00970 | | SKIPA PROG,17 ;PROGRAM BASE ADDRESS |
| 000046 | 200740 | 000040' | 00980 | UUOSY1: | MOVE 17,USRSAV ;RESTORE AC17 IF UO0 FROM SYS |
| 000047 | 261140 | 000000' | 00990 | | PUSH PDP,UU00 ;SAVE RETURN ON PUSH DOWN LIS |
| 000050 | 200600 | 000040 | 01000 | | MOVE UU0,40 ;GET THE UU0 INTO AC(UU0) |
| 000051 | 135100 | 000250' | 01010 | | LDB TAC1,[POINT 9,UU0,8] ;PICK UP UU0 OP COD |
| 000052 | 301100 | 000100 | 01020 | | CAIL TAC1,100 ;ILLEGAL INSTRUCTION? |
| 000053 | 254000 | 000000 | 01030 | | JRST ILLINS ;YES |
| 000054 | 305100 | 000040 | 01040 | | CAIGE TAC1,40 ;SYSTEM UU0? |
| 000055 | 254000 | 000000 | 01050 | | JRST UUOERR ;NO, ILLEGAL |
| 000056 | 135040 | 000000 | 01060 | | LDB TAC,PUUOAC |
| 000057 | 200301 | 000000 | 01070 | | MOVE DEV DAT,USRJDA(TAC) ;GET DDB |
| 000060 | 305100 | 000060 | 01080 | | CAIGE TAC1,100-UUOT2L ;AN IO UU0? |
| 000061 | 254000 | 000070' | 01090 | | JRST UUODSP ;NO |
| 000062 | 302100 | 000070 | 01100 | | CAIE TAC1,70 ;CLOSE AND RELEASE ARE ALWAYS LEGAL |
| 000063 | 306100 | 000071 | 01110 | | CAIN TAC1,71 |
| 000064 | 322300 | 000236' | 01120 | | JUMPE DEV DAT,UXIT |
| 000065 | 322300 | 000000 | 01130 | | JUMPE DEV DAT,IOIERR ;CHANNEL MUST BE ASSIGNED |
| 000066 | 200006 | 000002 | 01140 | | MOVE IOS,DEVIOS(DEV DAT) ;GET DATA BLOCK STA |
| 000067 | 254002 | 000015' | 01150 | | JRST UUOT2-77+UUOT2L-1(TAC1) ;DISPATCH |
| | | | 01160 | | |
| 000070 | 305100 | 000042 | 01170 | UUODSP: | CAIGE TAC1,40+UUOT1L ;LEGAL SYSTEM UU0? |
| 000071 | 254002 | 000033' | 01180 | | JRST UUOT1-40(TAC1) ;YES, DISPATCH |
| 000072 | 254000 | 000055' | 01190 | | JRST UUOERR |

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| | | | 01200 | | |
| | | | 01210 | | |
| 000073 | 254000 | 000162' | 01220 | UUOT1: JRST UCALL | ;40 |
| 000074 | 254000 | 000000 | 01230 | JRST UINIT | |
| | | | 01240 | ;ADD NON IO UUOS HERE | |
| | | | 01250 | | |
| | | | 01260 | UUOT1L=-UUOT1 | |
| | | | 01270 | | |
| | | | 01280 | UUOT2: | |
| | | | 01290 | ;ADD IO UUOS HERE | |
| 000075 | 254000 | 000000 | 01300 | JRST USETST | |
| 000076 | 254000 | 000000 | 01310 | JRST USTATO | |
| 000077 | 254000 | 000000 | 01320 | JRST USTATS | |
| 000100 | 254000 | 000000 | 01330 | JRST USTATZ | |
| 000101 | 254000 | 000000 | 01340 | JRST UINBF | |
| 000102 | 254000 | 000000 | 01350 | JRST UOUTBF | |
| 000103 | 254000 | 000000 | 01360 | JRST IN | |
| 000104 | 254000 | 000000 | 01370 | JRST OUT | |
| 000105 | 254000 | 000000 | 01380 | JRST CLOSE1 | |
| 000106 | 254000 | 000000 | 01390 | JRST RELEA1 | |
| 000107 | 254000 | 000000 | 01400 | JRST MTAPE1 | |
| 000110 | 254000 | 000160' | 01410 | JRST UDFG | |
| 000111 | 254000 | 000156' | 01420 | JRST UDSI | |
| 000112 | 254000 | 000154' | 01430 | JRST UDSO | |
| 000113 | 254000 | 000143' | 01440 | JRST UDLK | |
| 000114 | 254000 | 000131' | 01450 | JRST UDEN | ;77 |
| | | | 01460 | UUOT2L=-UUOT2 | |

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01470
01480 ,DISPATCH TO SPECIAL ROUTINE
01490 DEFINE DSPT(A)
01500 <U'A: PUSHJ PDP,UDSP
01510 JRST A(TAC)
01520 >
000115 200046 000003 01530 UDSP: MOVE TAC,DEVSER(DEV DAT)
000116 200106 000001 01540 MOVE TAC1,DEVCHR(DEV DAT)
000117 607100 000020 01550 TLNN TAC1,IORET
000120 201040 000116' 01560 MOVEI TAC,NRTDSP-4; IGNORE THESE CALLS FOR NON-
000121 263140 000000 01570 POPJ PDP,
000122 254000 000235' 01580 NRTDSP: JRST CUXIT1 ;SKIP RETURN
000123 254000 000235' 01590 NRTSRP: JRST CUXIT1 ;SKIP RETURN
000124 265240 000000 01600 JSP DAT,ERROR ;DUMPO
000125 265240 000124' 01610 JSP DAT,ERROR ;DUMPI
000126 254000 000072' 01620 JRST UOERR ;USETO
000127 254000 000126' 01630 JRST UOERR ;USETI
000130 254000 000127' 01640 JRST UOERR ;GETF
000131 260140 000000 01650 UDEN: PUSHJ PDP,WAIT1
000132 661000 000002 01660 TLO IOS,IOBEG
000133 620000 776000 01670 TRZ IOS,776000
000134 202006 000002 01680 MOVEM IOS,DEVIOS(DEV DAT)
000135 135040 000056' 01690 LDB TAC,PUUOAC
000136 661300 020000 01700 TLO DEV DAT,ENTRB
000137 621300 002000 01710 TLZ DEV DAT,CLOSB
000140 502301 000057' 01720 HLLM DEV DAT,USRJDA(TAC)
000141 260140 000115' 01730 PUSHJ PDP,UDSP
000142 254001 000004 01740 JRST DEN(TAC)
01750
000143 260140 000131' 01760 UDLK: PUSHJ PDP,WAIT1
000144 630000 000251' 01770 TDZ IOS,[XWD IOEND,776000]
000145 202006 000002 01780 MOVEM IOS,DEVIOS(DEV DAT)
000146 135040 000135' 01790 LDB TAC,PUUOAC
000147 661300 040000 01800 TLO DEV DAT,LOOKB
000150 621300 002000 01810 TLZ DEV DAT,CLOSB
000151 502301 000140' 01820 HLLM DEV DAT,USRJDA(TAC)
000152 260140 000115' 01830 PUSHJ PDP,UDSP
000153 254001 000005 01840 JRST DLK(TAC)
01850
01860 DSPT(DSO)
000154 260140 000115' 01870 UDSP: DSPT(DSO)
000155 254001 000010 01880 JRST DSO(TAC)
01890 DSPT(DSI)
000156 260140 000115' 01900 UDSP: DSPT(DSI)
000157 254001 000011 01910 JRST DSI(TAC)
01920 DSPT(DGF)
000160 260140 000115' 01930 UDSP: DSPT(DGF)
000161 254001 000012 01940 JRST DGF(TAC)

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01900
01910 , 6-CSS-DEC-CALL-PL-PRE2
01920 , H. R. MORSE 64-11-17
01930 , CALLING SEQUENCE
01940 , CALL D,[SIXBIT/NAME/]
01950 , WHERE NAME IS THE NAME OF A SYSTEM ROUTINE.
01960 , IF NO SYSTEM ROUTINE WITH THE SPECIFIED NAME IF FOUND, THIS ROUTINE
01970 , EXITS TO ERROR.
01980 , MONITOR INTERFACE
01990 , ROUTINES CALLED: ERROR, HASH, SYSTEM ROUTINES DEFINED BY
02000 , USE OF UCALIN.
02010 , SYMBOLS SET/USED:
02020 , ACCUMULATORS: DAT S/U PROG U
02030 , PDP U UUU S/U
02040 ;CONTENTS OF USER AC PLACED IN AC TAC
02050
02060
000162 661600 000011 02070 UCALL: TLO UUU,JDAT ;RELATIVIZE UUU ADDRESS
000163 200260 000014 02080 MOVE DAT,@UUU; DAT:=NAME OF SYSTEM ROUTINE C
000164 205100 777760 02090 MOVSI TAC1,-UCLLEN
000165 312242 000174' 02100 CAME DAT,UCLTAB(TAC1); SEARCH SYSTEM TOUTINE NAME TA
000166 253100 000165' 02110 AOBJN TAC1,.-1
000167 135240 000146' 02120 LDB DAT,PUUOAC ;USER UUU AC FIELD
000170 505240 000011 02130 HRLI DAT,JDAT
000171 200060 000005 02140 MOVE TAC,@DAT ;PICK UP CONTENTS OF USER AC
000172 321122 000214' 02150 JUMPL TAC1,@UCLJMP(TAC1)
000173 254000 000130' 02160 JRST UUUERR
02170
02180
02190 DEFINE NAMES
02200 < X DDTIN,DDTIN
02210 X DDTOUT,DDTOUT
02220 X DDTGT,DDTGT
02230 X DDTRL,DDTRL
02240 X SETDDT,SETDDT
02250 X DEVCHR,DVCHR
02260 X GETCHR,DVCHR
02270 X WAIT,WAIT
02280 X RESET,RESET
02290 X EXIT,EXIT
02300 X LDRBLT,LDRBLT
02310 X UTPCLR,UTPCLR
02320 X DATE,DATE
02330 X SETPOV,SETPOV
02340 X SWITCH,SWITCH
02350 X TIMER,TIMER
02360 >
02370 DEFINE X (A,B)
02380 < SIXBIT /A/
02390 >
02400 UCLTAB: NAMES
000174 444464 515600 SIXBIT /DDTIN/
000175 444464 576564 SIXBIT /DDTOUT/
000176 444464 476400 SIXBIT /DDTGT/
000177 444464 625400 SIXBIT /DDTRL/
000200 634564 444464 SIXBIT /SETDDT/
000201 444566 435062 SIXBIT /DEVCHR/

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000202 474564 435062
000203 674151 640000
000204 624563 456400
000205 457051 640000
000206 544462 425464
000207 656460 435462
000210 444164 450000
000211 634564 605766
000212 636751 644350
000213 645155 456200

SIXBIT /GETCHR/
SIXBIT /WAIT/
SIXBIT /RESET/
SIXBIT /EXIT/
SIXBIT /LDRBLT/
SIXBIT /UTPCLR/
SIXBIT /DATE/
SIXBIT /SETPOV/
SIXBIT /SWITCH/
SIXBIT /TIMER/

02410 UCLLEN=-UCLTAB
02420
02430 DEFINE X(A,B)
02440 < JRST B
02450 EXTERNAL B
02460 >
02470 UCLJMP: NAMES

000214 254000 000000
000215 254000 000000
000216 254000 000000
000217 254000 000000
000220 254000 000000
000221 254000 000000
000222 254000 000221
000223 254000 000000
000224 254000 000000
000225 254000 000000
000226 254000 000000
000227 254000 000000
000230 254000 000000
000231 254000 000000
000232 254000 000000
000233 254000 000000

JRST DDTIN
JRST DDTOUT
JRST DDTGT
JRST DDTRL
JRST SETDDT
JRST DVCHR
JRST DVCHR
JRST WAIT
JRST RESET
JRST EXIT
JRST LDRBLT
JRST UTPCLR
JRST DATE
JRST SETPOV
JRST SWITCH
JRST TIMER

```
02480
02490
02500 , DEC 06 00 EX COM L PT PRE 02 UXIT
02510 , H. R. MORSE      64-12-26
02520 , CALLING SEQUENCE
02530 ,           ANY TRANSFER OF CONTROL TO UXIT
02540 , EXITS THIS UUO CALL.
02550 , MONITOR INTERFACE
02560 ,           SYMBOLS SET/USED:
02570 ,                   ACCUMULATORS:           MAY RESTORE ALL ACCUMULATORS
02580 ,                   JDAT U
02590 ,                   PDP U
02600 ,                   17 S/U
02610 ,                   JOB AREA:           JOBAC U
02620 ,                   SYSTEM ADDRESSES:    USRXT U
02630 ,                   USRLEV S/U
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| | | | |
|--------|--------|---------|-------|
| | | | 02640 |
| | | | 02650 |
| | | | 02660 |
| 000234 | 350003 | 000000 | 02670 |
| 000235 | 350003 | 000000 | 02680 |
| 000236 | 262140 | 000046' | 02690 |
| 000237 | 250040 | 000236' | 02700 |
| 000240 | 607040 | 010000 | 02710 |
| 000241 | 254000 | 000246' | 02720 |
| 000242 | 202040 | 000237' | 02730 |
| 000243 | 205751 | 000000 | 02740 |
| 000244 | 251740 | 000017 | 02750 |
| 000245 | 254120 | 000242' | 02760 |
| | | | 02770 |
| 000246 | 250040 | 000245' | 02780 |
| 000247 | 254120 | 000246' | 02790 |
| | | | 02800 |
| 000250 | 331100 | 000014 | 02810 |
| 000251 | 000040 | 776000 | |

```
INTERN UXIT,CUXIT1,CUXIT2
CUXIT2:  AOS (PDP)
CUXIT1:  AOS (PDP)
UXIT:    POP PDP,USRSV          ;RESTORE UO EXIT ADDRESS FRO
        EXCH TAC,USRSV
        TLNN TAC,USRMOD       ;WAS ENTRY FROM USER MODE?
        JRST UXIT2
        MOVEM TAC,USRSV      ;SET UP RETURN
        MOVSI 17, JOBAC(JDAT) ;RESTORE ACCUMULATO
        BLT 17,17
UXIT1:   JRST 2,@USRSV       ;RETURN TO USERS PROGRAM
UXIT2:   EXCH TAC,USRSV
        JRST 2,@USRSV
END,
```

THERE ARE NO ERRORS

PROGRAM BREAK IS 000252

| | | |
|--------|---------|-----|
| 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 |
| CLDS | 000000 | EXT |
| CLFN | 000000 | EXT |
| CLOSR | 002000 | INT |
| CLOSE1 | 000105' | EXT |
| CLSIN | 000002 | INT |
| CLSOUT | 000001 | INT |
| CUXIT1 | 000235' | INT |
| CUXIT2 | 000234' | INT |
| D | 000017 | INT |
| DAT | 000005 | INT |
| DATE | 000230' | EXT |
| DCL | 000001 | INT |
| DCW | 020000 | INT |
| DDI | 000007 | INT |
| DDO | 000006 | INT |
| DDTGT | 000216' | EXT |
| DDTIN | 000214' | EXT |
| DDTMEM | 000037 | INT |
| DDTOUT | 000215' | EXT |
| DDTRL | 000217' | EXT |
| 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 |

| | | |
|---------|---------|-----|
| DVCDR | 100000 | INT |
| DVCHR | 000222' | EXT |
| DVDIR | 000004 | INT |
| DVDIRI | 400000 | INT |
| DVIN | 000002 | INT |
| DVLPT | 040000 | INT |
| DVMTA | 000020 | INT |
| DVOUT | 000001 | INT |
| DVTTY | 000010 | INT |
| FNTRB | 020000 | INT |
| ERROR | 000125' | EXT |
| EXIT | 000225' | EXT |
| I | 000010 | INT |
| IB | 000013 | INT |
| IBUFB | 200000 | INT |
| ILLINS | 000053' | EXT |
| IN | 000103' | EXT |
| 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 |
| IOEND | 000040 | INT |
| IOFST | 000004 | INT |
| IOIERR | 000065' | 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 |
| JIOW | 100000 | INT |
| JNA | 004000 | INT |
| JOBAC | 000243' | EXT |
| JOBADR | 000034' | EXT |
| JORDAT | 000042' | EXT |
| JORPDL | 000044' | EXT |

| | | |
|--------|---------|-----|
| LDRBLT | 000226' | EXT |
| LOOKR | 040000 | INT |
| MJOBPD | 000043' | EXT |
| MTAPE1 | 000107' | EXT |
| MTW | 010000 | INT |
| NRTDSP | 000122' | |
| NRTSRP | 000123' | |
| OBUFR | 100000 | INT |
| OUT | 000104' | EXT |
| OUTPR | 004000 | INT |
| PDP | 000003 | INT |
| PICHN | 000100 | INT |
| PROG | 000007 | INT |
| PUUOAC | 000167' | EXT |
| RELEA1 | 000106' | EXT |
| RESET | 000224' | EXT |
| RUN | 200000 | INT |
| RUNARL | 204000 | INT |
| SETDDT | 000220' | EXT |
| SETPOV | 000231' | EXT |
| SWITCH | 000232' | EXT |
| TAC | 000001 | INT |
| TAC1 | 000002 | INT |
| TEM | 000010 | INT |
| TIMER | 000233' | EXT |
| TTYATC | 020000 | INT |
| TTYUSE | 010000 | INT |
| UCALL | 000162' | |
| UCLJMP | 000214' | |
| UCLLEN | 000020 | |
| UCLTAB | 000174' | |
| UDFN | 000131' | |
| UDGF | 000160' | |
| UDLK | 000143' | |
| UDSI | 000156' | |
| UDSO | 000154' | |
| UDSP | 000115' | |
| UINBF | 000101' | EXT |
| UINIT | 000074' | EXT |
| UOUTBF | 000102' | EXT |
| USETST | 000075' | EXT |
| USRJDA | 000151' | EXT |
| USRMOD | 010000 | INT |
| USRREL | 000021' | EXT |
| USRSV | 000247' | EXT |
| USTATO | 000076' | EXT |
| USTATS | 000077' | EXT |
| USTATZ | 000100' | EXT |
| UTPCLR | 000227' | EXT |
| UO | 000014 | INT |
| UO0 | 000000' | INT |
| UODSP | 000070' | |
| UOERR | 000173' | EXT |
| UOSY1 | 000046' | |
| UOSYS | 000030' | |

SYSCON - UO HANDLER
SYMBOL TABLE

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| | | |
|--------|---------|-----|
| UUOT1 | 000073' | |
| UUOT1L | 000002 | |
| UUOT2 | 000075' | |
| UUOT2L | 000020 | |
| UXIT | 000236' | INT |
| UXIT1 | 000245' | |
| UXIT2 | 000246' | |
| WAIT | 000223' | EXT |
| WAIT1 | 000143' | EXT |

END OF ASSEMBLY