

00010

XLIST

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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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00800
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 UOOSYS
MOVE 17,JOBADR
MOVEM TAC,40(17)
HRRZ TAC,41(17)
JUMPE TAC,UOOSYS
HLL TAC,UU00
TLNN TAC,USRMOD
JRST UOOSYS
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 ADDRESS
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

			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(DEVDAT)
000116 200106 000001 01540 MOVE TAC1,DEVCHR(DEVDAT)
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(DEVDAT)
000135 135040 000056' 01690 LDB TAC,PUUOAC
000136 661300 020000 01700 TLO DEVDAT,ENTRB
000137 621300 002000 01710 TLZ DEVDAT,CLOSB
000140 502301 000057' 01720 HLLM DEVDAT,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(DEVDAT)
000146 135040 000135' 01790 LDB TAC,PUUOAC
000147 661300 040000 01800 TLO DEVDAT,LOOKB
000150 621300 002000 01810 TLZ DEVDAT,CLOSB
000151 502301 000140' 01820 HLLM DEVDAT,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) DSPT(DSI)
01890 UDSP: DSPT(DSI)
000156 260140 000115' 01900 UDGF: DSPT(DGF)
000157 254001 000011 01910 JRST DSI(TAC) DSPT(DGF)
01920 UDGF: DSPT(DGF)
000160 260140 000115' 01930 UDGF: 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

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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	

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