

00010

XLIST

ONCE ONLY CODE - OPERATOR DIALOGUE AND SERVICE ROUT. LINKAGEPAGE 2

Ø197Ø

ONCE ONLY CODE - OPERATOR DIALOGUE AND SERVICE ROUT. LINKAGEPAGE 3  
 THIS IS ONCE ONLY CODE PLACED AT THE END OF IOINIT

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00030 ;WHICH SHOULD BE THE LAST LOADED PROGRAM BEFORE SYSMAX AND DDT
00040 ;THUS IF IT OVERFLOWS INTO THE USER AREA NO HARM IS DONE
00050 ;INITIALIZE PRIORITY CHANNELS AND SETUP INTERRUPT SERVICE ROUTINE CHA
00060
00070 XP SYSFIN,.-1 ;LAST LOC. IN SYSTEM
00080 NXM=10000 ;NON EX-MEM
00090
00100 INTERNAL PATCH
00110
00120 PATCH: BLOCK 100 ;PATCH SPACE
00130 ;C(SYSSIZ) SHOULD BE UPDATED AS PATCHES ARE MADE
00140
00150 T=TAC ;SOME ACS
00160 C=TAC1
00170 INT=DAT ;INTERRUPT SERVICE ENTRY POINT(USUALLY A CONSO INSTR.)
00180 CHL=DEV DAT ;THE PLACE WHERE PC IS STORED FOR THAT CHANNEL
00190
00200 ;LINK TO SERVICE ROUTINES
00210
00220 INTERNAL LINKSR
00230 EXTERNAL NDEVM1 ;=NDEV-1 (DEFINED IN IOINI1)
00240 EXTERNAL DEVINT,JOBSYM
00250
000100 000000 000000 00260 LINKSR: 0 ;CALLED WITH JSR FROM SYSINI
00270 ;CHAIN INTERRUPT SERVICE ROUTINES TOGETH
000101 515240 254000 00280 HRLZI INT, 254000 ;FORM JRST INSTR.
000102 201100 000000 00290 MOVEI C, NDEVM1 ;NO. OV DEV. SERV. ROUTINES TO CHAIN
000103 554302 000000 00300 HLRZ CHL, DEVINT(C) ;LOC. WHERE PC IS STORED
000104 540242 000103' 00310 HRR INT, DEVINT(C) ;INTERRUPT SERVICE ROUTINE ENTRY POINT
000105 200046 000001 00320 MOVE T, 1(CHL) ;INSERT THIS ROUTINE AT FRONT OF CHAIN
000106 202045 000001 00330 MOVEM T, 1(INT)
000107 202246 000001 00340 MOVEM INT, 1(CHL)
000110 365100 000103' 00350 SOJGE C, DEV1

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ONCE ONLY CODE - OPERATOR DIALOGUE AND SERVICE ROUT. LINKAGEPAGE 4  
 THIS IS ONCE ONLY CODE PLACED AT THE END OF IOINIT

			00360		
			00370	;MOVE SYMBOL TABLE UP IN MEMORY	
			00380	;EXEC MUST BE LOADED IN 15K OR LESS IF GOING INTO 16K MACHINE	
			00390		
000111	402000	000005	00400	SETZM DAT	;FIND FIRST NON EX MEM
000112	700200	010000	00410	CONO APR,NXM	;CLEAR NON-EX MEM FLAG
000113	271240	002000	00420	ADDI DAT,2000	;TRY NEXT 1K BLOCK
000114	200105	000000	00430	MOVE TAC1,(DAT)	;REFERENCE THIS LOCATION
000115	700340	010000	00440	CONSO APR,NXM	;NON-EXISTENT?
000116	254000	000113'	00450	JRST .-3	;NO
000117	275240	000001	00460	SUBI DAT,1	;YES, HIGHEST LEGAL LOC
000120	202240	000037	00470	MOVEM DAT,DDTMEM	;FOR DDT
000121	275240	000177	00480	SUBI DAT,200-1	;MAKE ROOM FOR DEC_DUMP
000122	574100	000000	00490	HLRE TAC1,JOBSYM	; -LENGTH OF S. T.
000123	322100	000143'	00500	JUMPE TAC1,JRSTI1	;0 IF NO S. T. TO MOVE UP
000124	213000	000002	00510	MOVNS TAC1	;+LENGTH
000125	550040	000122'	00520	HRRZ TAC,JOBSYM	;FIRST ADDRESS
000126	271042	000000	00530	ADDI TAC,(TAC1)	;LENGTH+FIRST ADDRESS
000127	504040	000002	00540	HRL TAC,TAC1	;XWD LENGTH,LENGTH+FIRST ADDRESS
000130	275241	000001	00550	SUBI DAT,1(TAC)	;NEW LAST+1-OLD LAST+1
000131	542240	000140'	00560	HRRM DAT,ST01	;DIST. TO MOVE
000132	200100	000125'	00570	MOVE TAC1,JOBSYM	; -N,FIRST ADD.
000133	271105	000001	00580	ADDI TAC1,1(DAT)	;FORM NEW S.T. POINTER
000134	202100	000132'	00590	MOVEM TAC1,JOBSYM	
000135	201100	000134'	00600	MOVEI TAC1,JOBSYM	
000136	202100	000036	00610	MOVEM TAC1,DDTSYM	
000137	200101	777777	00620	MOVE TAC1,-1(TAC)	
000140	202101	000140'	00630	MOVEM TAC1,.(TAC)	
000141	274040	000551'	00640	SUB TAC,[XWD 1,1]	
000142	325040	000137'	00650	JUMPGE TAC,.-3	

ST01:

ONCE ONLY CODE - OPERATOR DIALOGUE AND SERVICE ROUT. LINKAGEPAGE 5  
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00660
00670      ;SETUP LOCATIONS 40 THRU 57
00680
000143  200040 000552' 00690      JRSTI1:  MOVE TAC,[XWD LOC40,40]
000144  251040 000057' 00700          BLT TAC,57
000145  200040 000147' 00710          MOVE TAC,JRSTI
000146  202040 000101' 00720          MOVEM TAC,LINKSR+1  ;DO ONCE ONLY
000147  254020 000100' 00730      JRSTI:   JRST @LINKSR
00740
00750      EXTERN UU00,ERROR
00760      EXTERN CH1,CH2,CH3,CH4,CH5,CH6,CH7
00770
000150  000000 000000' 00780      LOC40:  0          ;UUO PC
000151  264000 000000' 00790          JSR UU00  ;TO UUO HANDLER
000152  264000 000000' 00800          JSR CH1
000153  265240 000000' 00810          JSP DAT,ERROR
000154  264000 000000' 00820          JSR CH2
000155  265240 000153' 00830          JSP DAT,ERROR
000156  264000 000000' 00840          JSR CH3
000157  265240 000155' 00850          JSP DAT,ERROR
000160  264000 000000' 00860          JSR CH4
000161  265240 000157' 00870          JSP DAT,ERROR
000162  264000 000000' 00880          JSR CH5
000163  265240 000161' 00890          JSP DAT,ERROR
000164  264000 000000' 00900          JSR CH6
000165  265240 000163' 00910          JSP DAT,ERROR
000166  264000 000000' 00920          JSR CH7
000167  265240 000165' 00930          JSP DAT,ERROR
00940

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ONCE ONLY CODE - OPERATOR DIALOGUE AND SERVICE ROUT. LINKAGEPAGE 6  
 THIS IS ONCE ONLY CODE PLACED AT THE END OF IOINIT

			00950	
			00960	
			00970	;ONCE ONLY CODE - OPERATOR SETUP DIALOGUE
			00980	
			00990	INTERNAL ONCE
			01000	EXTERNAL CONMES,RADX10,CRLF,DECIN,DECIN1
			01010	EXTERNAL THSDAT,MAKEND,JOBFF
			01020	EXTERNAL ERNAM,OCTPNT,SYSSIZ,CONFIG,SYSSNUM,SYSDAT
			01030	
000170	000000	000000	01040	ONCE: 0
000171	201040	777777'	01050	MOVEI TAC,SYSFIN ;SET SIZE OF MONITOR
000172	202040	000000	01060	MOVEM TAC,SYSSIZ
000173	200240	000443'	01070	MOVE DAT,LINEP ;SETUP LINE BYTE POINTER
000174	200140	000553'	01080	MOVE PDP,[XWD ONCEPN,ONCEPD]
000175	260140	000000	01090	PUSHJ PDP,CRLF
000176	201040	000000	01100	MOVEI TAC,CONFIG
000177	260140	000000	01110	PUSHJ PDP,CONMES
000200	201040	000474'	01120	MOVEI TAC,TSEXEC
000201	260140	000177'	01130	PUSHJ PDP,CONMES
000202	554040	000000	01140	HLRZ TAC,SYSSNUM
000203	260140	000000	01150	PUSHJ PDP,RADX10
000204	201040	000554'	01160	MOVEI TAC,[ASCIZ /. /]
000205	260140	000201'	01170	PUSHJ PDP,CONMES
000206	550040	000202'	01180	HRRZ TAC,SYSSNUM
000207	260140	000203'	01190	PUSHJ PDP,RADX10
000210	201040	000555'	01200	MOVEI TAC,[ASCIZ / /]
000211	260140	000205'	01210	PUSHJ PDP,CONMES
000212	201040	000000	01220	MOVEI TAC,SYSDAT
000213	260140	000211'	01230	PUSHJ PDP,CONMES
000214	260140	000175'	01240	PUSHJ PDP,CRLF
000215	260140	000421'	01250	PUSHJ PDP,OPOUT

ONCE ONLY CODE - OPERATOR DIALOGUE AND SERVICE ROUT. LINKAGEPAGE 7  
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			01260	
			01270	;ASK FOR TODAYS DATE AND CONVERT
			01280	;DATE STORED AS ((Y-64)*12.+M-1)*31.+D-1
			01290	
000216	402000	000000	01300	DATLOP: SETZM THSDAT
000217	200240	000443'	01310	MOVE DAT,LINEP
000220	201040	000477'	01320	MOVEI TAC,TODATE
000221	260140	000213'	01330	PUSHJ PDP,CONMES
000222	260140	000421'	01340	PUSHJ PDP,OPOUT
000223	260140	000376'	01350	PUSHJ PDP,GETLIN
000224	254000	000216'	01360	JRST DATLOP ;JUST CR
000225	260140	000000	01370	PUSHJ PDP,DECIN1 ;MONTH
000226	254000	000216'	01380	JRST DATLOP ;ERROR
000227	332000	000002	01390	SKIPE TAC1
000230	303100	000014	01400	CAILE TAC1,+D12
000231	254000	000216'	01410	JRST DATLOP
000232	275100	000001	01420	SUBI TAC1,1
000233	221100	000037	01430	IMULI TAC1,+D31
000234	272100	000216'	01440	ADDM TAC1,THSDAT
000235	260140	000225'	01450	PUSHJ PDP,DECIN1 ;DAY
000236	254000	000216'	01460	JRST DATLOP
000237	332000	000002	01470	SKIPE TAC1
000240	303100	000037	01480	CAILE TAC1,+D31
000241	254000	000216'	01490	JRST DATLOP
000242	275100	000001	01500	SUBI TAC1,1
000243	272100	000234'	01510	ADDM TAC1,THSDAT
000244	260140	000235'	01520	PUSHJ PDP,DECIN1 ;YEAR
000245	254000	000216'	01530	JRST DATLOP
000246	301100	000101	01540	CAIL TAC1,+D65
000247	303100	000143	01550	CAILE TAC1,+D99
000250	254000	000216'	01560	JRST DATLOP
000251	275100	000100	01570	SUBI TAC1,+D64 ;YEAR ZERO
000252	221100	000564	01580	IMULI TAC1,+D12*+D31
000253	272100	000243'	01590	ADDM TAC1,THSDAT

ONCE ONLY CODE - OPERATOR DIALOGUE AND SERVICE ROUT. LINKAGEPAGE 8  
 THIS IS ONCE ONLY CODE PLACED AT THE END OF IOINIT

			01600	
			01610	;GET TIME OF DAY
			01620	
			01630	EXTERN TIME
			01640	
000254	402000	000000	01650	TIMLOP: SETZM TIME
000255	200240	000443'	01660	MOVE DAT,LINEP
000256	201040	000506'	01670	MOVEI TAC,TIMEM
000257	260140	000221'	01680	PUSHJ PDP,CONMES
000260	260140	000421'	01690	PUSHJ PDP,OPOUT
000261	260140	000376'	01700	PUSHJ PDP,GETLIN
000262	254000	000254'	01710	JRST TIMLOP ;JUST A CR
000263	134100	000001	01720	ILDB TAC1,TAC
000264	275100	000060	01730	SUBI TAC1,60
000265	331000	000002	01740	SKIPL TAC1 ;CHECK FIRST DIGIT OF HOUR
000266	303100	000002	01750	CAILE TAC1,2
000267	254000	000254'	01760	JRST TIMLOP
000270	220100	000556'	01770	IMUL TAC1,[+D60**+D60**+D60**+D10]
000271	272100	000254'	01780	ADDM TAC1,TIME
000272	134100	000001	01790	ILDB TAC1,TAC
000273	275100	000060	01800	SUBI TAC1,60 ;CONVERT TO BINARY
000274	331000	000002	01810	SKIPL TAC1
000275	303100	000011	01820	CAILE TAC1,+D9
000276	254000	000254'	01830	JRST TIMLOP
000277	221100	645700	01840	IMULI TAC1,+D60**+D60**+D60
000300	272100	000271'	01850	ADDM TAC1,TIME
000301	260140	000244'	01860	PUSHJ PDP,DECIN1
000302	254000	000254'	01870	JRST TIMLOP
000303	303100	000073	01880	CAILE TAC1,+D59
000304	254000	000254'	01890	JRST TIMLOP
000305	221100	007020	01900	IMULI TAC1,+D60**+D60
000306	272100	000300'	01910	ADDM TAC1,TIME



ONCE ONLY CODE - OPERATOR DIALOGUE AND SERVICE ROUT. LINKAGEPAGE 9  
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			01920		
			01930	;PRINT IO CONFIGURATION	
			01940		
			01950	EXTERN DEVLST	
			01960		
000307	200240	000443'	01970	MOVE DAT,LINEP	
000310	201040	000517'	01980	MOVEI TAC,IOCONF	
000311	260140	000257'	01990	PUSHJ PDP,CONMES	
000312	554300	000000	02000	HLRZ DEVDAT,DEVLST	
000313	201040	000004	02010	MOVEI TAC,ITEM	
000314	261140	000001	02020	PUSH PDP,TAC	
000315	201040	000001	02030	ONCE5: MOVEI TAC,1	
000316	510206	000000	02040	HLRZ ITEM,DEVNAM(DEVDAT)	
000317	554306	000003	02050	ONCE4: HLRZ DEVDAT,DEVSER(DEVDAT)	
000320	322300	000324'	02060	JUMPE DEVDAT,ONCE6	
000321	510106	000000	02070	HLRZ TAC1,DEVNAM(DEVDAT)	
000322	316100	000004	02080	CAMN TAC1,ITEM	
000323	344040	000317'	02090	AOJA TAC,ONCE4	
000324	200340	000001	02100	ONCE6: MOVE PROG,TAC ;SAVE NO.	
000325	260140	000207'	02110	PUSHJ PDP,RADX10	
000326	201600	000040	02120	MOVEI UUO," "	
000327	136600	000005	02130	IDPB UUO,DAT	
000330	201600	000003	02140	MOVEI UUO,3	
000331	200440	000557'	02150	MOVE JDAT,[POINT 6,ITEM]	
000332	134100	000011	02160	ONCE7: ILDB TAC1,JDAT	
000333	271100	000240	02170	ADDI TAC1,240	
000334	136100	000005	02180	IDPB TAC1,DAT	
000335	367600	000332'	02190	SOJG UUO,ONCE7	
000336	201040	000560'	02200	MOVEI TAC,[ASCIZ /'S/]	
000337	303340	000001	02210	CAILE PROG,1	
000340	260140	000311'	02220	PUSHJ PDP,CONMES	
000341	260140	000214'	02230	PUSHJ PDP,CRLF	
000342	326300	000315'	02240	JUMPN DEVDAT,ONCE5	
000343	262140	000002	02250	POP PDP,TAC1	
000344	260140	000421'	02260	PUSHJ PDP,OPOUT	

ONCE ONLY CODE - OPERATOR DIALOGUE AND SERVICE ROUT. LINKAGEPAGE 10  
 THIS IS ONCE ONLY CODE PLACED AT THE END OF IOINIT

			02270		
			02280		
			02290	;ASK IF SYSMAK IS WANTED	
			02300		
000345	200240	000443'	02310	MOVE DAT,LINEP	
000346	201040	000524'	02320	MOVEI TAC,SYSM	
000347	260140	000340'	02330	PUSHJ PDP,CONMES	
000350	260140	000421'	02340	PUSHJ PDP,OPOUT	
000351	260140	000376'	02350	PUSHJ PDP,GETLIN	
000352	254000	000355'	02360	JRST ONCE2	;NO SYSMAK
000353	201040	000000	02370	MOVEI TAC,MAKEND	;YES
000354	202040	000172'	02380	MOVEM TAC,SYSSIZ	
			02390		
			02400	;IS EXEC DDT WANTED?	
			02410		
000355	200240	000443'	02420	ONCE2: MOVE DAT,LINEP	
000356	201040	000536'	02430	MOVEI TAC,SYSDM	
000357	260140	000347'	02440	PUSHJ PDP,CONMES	
000360	260140	000421'	02450	PUSHJ PDP,OPOUT	
000361	260140	000376'	02460	PUSHJ PDP,GETLIN	
000362	254000	000365'	02470	JRST ONCE3	;NO
000363	200040	000000	02480	MOVE TAC,JOBFF	;FIRST FREE LOCATION
000364	552040	000354'	02490	HRRZM TAC,SYSSIZ	

ONCE ONLY CODE - OPERATOR DIALOGUE AND SERVICE ROUT. LINKAGEPAGE 11  
THIS IS ONCE ONLY CODE PLACED AT THE END OF IOINIT

			02500	
			02510	;PRINT OCTAL SIZE OF MONITOR
			02520	
000365	200240	000443'	02530	ONCE3: MOVE DAT,LINEP
000366	201040	000541'	02540	MOVEI TAC,EXECIS
000367	260140	000357'	02550	PUSHJ PDP,CONMES
000370	200040	000364'	02560	MOVE TAC,SYSSIZ
000371	260140	000000	02570	PUSHJ PDP,OCTPNT
000372	201040	000544'	02580	MOVEI TAC,LENGTH
000373	260140	000367'	02590	PUSHJ PDP,CONMES
000374	260140	000421'	02600	PUSHJ PDP,OPOUT
000375	254020	000170'	02610	JRST @ONCE
			02620	

ONCE ONLY CODE - OPERATOR DIALOGUE AND SERVICE ROUT. LINKAGEPAGE 12  
THIS IS ONCE ONLY CODE PLACED AT THE END OF IOINIT

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02630
02640 ;ROUTINE TO READ A LINE FROM OPERATORS CONSOLE
02650 ;CALL: PUSHJ PDP,GETLIN
02660 ; JUST A CR TYPED IN
02670 ; A LINE TYPED IN,TAC SET AS BYTE POINTER
02680
02690 EXTERN CPOPJ, CPOPJ1
02700
000376 200040 000443' 02710 GETLIN: MOVE TAC,LINEP
000377 201200 000000 02720 MOVEI ITEM,0
000400 712340 000040 02730 GET1: CONSO TTY,40
000401 254000 000400' 02740 JRST .-1
000402 712040 000002 02750 DATAI TTY,TAC1
000403 712140 000002 02760 DATAO TTY,TAC1
000404 136100 000001 02770 IDPB TAC1,TAC
000405 405100 000177 02780 ANDI TAC1,177
000406 306100 000177 02790 CAIN TAC1,177 ;RUBOUT
000407 254000 000000 02800 JRST CPOPJ
000410 302100 000015 02810 CAIE TAC1,15
000411 344200 000400' 02820 AOJA ITEM,GET1
000412 712340 000020 02830 CONSO TTY,20
000413 254000 000412' 02840 JRST .-1
000414 201100 000012 02850 MOVEI TAC1,12
000415 712140 000002 02860 DATAO TTY,TAC1
000416 200040 000443' 02870 MOVE TAC,LINEP
000417 326200 000000 02880 JUMPN ITEM,CPOPJ1
000420 263140 000000 02890 POPJ PDP,
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ONCE ONLY CODE - OPERATOR DIALOGUE AND SERVICE ROUT. LINKAGEPAGE 13  
 THIS IS ONCE ONLY CODE PLACED AT THE END OF IOINIT

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02900
02910 ;ROUTINE TO TYPE A LINE ON OPERATOR CONSOLE
02920 ;ECHO CHECK STOPS LINE AND RETURNS
02930 ;CALL: DAT SET TO END OF MESSAGE
02940
000421 200040 000443' 02950 OPOUT: MOVE TAC,LINBP
000422 712040 000002 02960 DATAI TTY,TAC1
000423 316040 000005 02970 OPOUT1: CAMN TAC,DAT
000424 263140 000000 02980 POPJ PDP,
000425 712300 000040 02990 CONSZ TTY,40
000426 254000 000434' 03000 JRST OPOUT2 ;ECHO CHECK
000427 712300 000020 03010 CONSZ TTY,20
000430 254000 000427' 03020 JRST .-1
000431 134100 000001 03030 ILDB TAC1,TAC
000432 712140 000002 03040 DATAO TTY,TAC1
000433 254000 000423' 03050 JRST OPOUT1
000434 712300 000020 03060 OPOUT2: CONSZ TTY,20
000435 254000 000434' 03070 JRST .-1
000436 712140 000561' 03080 DATAO TTY,[15]
000437 712300 000020 03090 CONSZ TTY,20
000440 254000 000437' 03100 JRST .-1
000441 712140 000562' 03110 DATAO TTY,[12]
000442 263140 000000 03120 POPJ PDP,
03130
000443 440700 000444' 03140 LINEP: POINT 7,LINBUF
03150 LINBUF: BLOCK 20
03160 ONCEPN=10
03170 ONCEPD: BLOCK ONCEPN

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ONCE ONLY CODE - OPERATOR DIALOGUE AND SERVICE ROUT. LINKAGEPAGE 14  
 THIS IS ONCE ONLY CODE PLACED AT THE END OF IOINIT

			03180	
			03190	;MESSAGES
			03200	
000474	202505	620246	03210	TSEXEC: ASCIZ / T. S. EXEC- /
000475	271010	554212		
000476	415320	000000		
			03220	TODATE: ASCIZ /
000477	064252	454640	03230	TYPE TODAY'S DATE AS ABOVE.
000500	425012	447610		
000501	406624	751500		
000502	422032	442500		
000503	406464	040604		
000504	476550	527032		
000505	050000	000000	03240	/
			03250	TIMEM: ASCIZ /
000506	064252	454640	03260	TYPE 4 DIGIT NAVY TIME(0953 IS 9:53 AM).
000507	425006	420210		
000510	446171	152100		
000511	472032	654500		
000512	522231	542520		
000513	301626	531500		
000514	446464	034564		
000515	325464	040632		
000516	245341	505000	03270	/
			03280	IOCONF: ASCIZ /
000517	064251	147500	03290	IO CONFIGURATION
000520	416371	643222		
000521	436532	240650		
000522	446371	606424	03300	/
000523	000000	000000		
			03310	SYSM: ASCIZ /
000524	064250	447500	03320	DO YOU WANT SYSMK(TYPE Y IF YES,CR IF NO)?
000525	546372	520256		
000526	406352	420246		
000527	546471	540626		
000530	242513	150212		
000531	202624	044614		
000532	202630	551530		
000533	416444	044614		
000534	202351	724576		
000535	064240	000000	03330	/
			03340	SYSDM: ASCIZ /
000536	064250	554212	03350	EXEC DDT?
000537	415010	442250		
000540	374321	200000	03360	/
			03370	EXECIS: ASCIZ /
000541	064250	554212	03380	EXEC IS /
000542	415011	151500		
000543	000000	000000		
000544	202370	352202	03390	LENGTH: ASCIZ / OCTAL LOCATIONS LONG.
000545	461011	447606		
000546	406511	147634		
000547	515011	447634		
000550	435341	505000	03400	/
			03410	
000551	000001	000001	03420	END,
000552	000150	000040		

000553	000010	000464'
000554	270000	000000
000555	200000	000000
000556	000000	106274
000557	440600	000004
000560	236460	000000
000561	000000	000015
000562	000000	000012

THERE ARE NO ERRORS

PROGRAM BREAK IS 000563

ONCE ONLY CODE - OPERATOR DIALOGUE AND SERVICE ROUT. LINKAGEPAGE 15  
 SYMBOL 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
C	000002	
CH1	000152'	EXT
CH2	000154'	EXT
CH3	000156'	EXT
CH4	000160'	EXT
CH5	000162'	EXT
CH6	000164'	EXT
CH7	000166'	EXT
CHL	000006	
CLOSB	002000	INT
CLSIN	000002	INT
CLSOUT	000001	INT
CONFIG	000176'	EXT
CONMES	000373'	EXT
CPOPJ	000407'	EXT
CPOPJ1	000417'	EXT
CRLF	000341'	EXT
D	000017	INT
DAT	000005	INT
DATLOP	000216'	
DCL	000001	INT
DCW	020000	INT
DDI	000007	INT
DDO	000006	INT
DDTMEM	000037	INT
DDTSYM	000036	INT
DECIN	000000	EXT
DECIN1	000301'	EXT
DEN	000004	INT
DEV1	000103'	
DEVADR	000007	INT
DEVBUF	000006	INT
DEVCHR	000001	INT
DEVCTR	000011	INT
DEVDAT	000006	INT
DEVIAD	000007	INT
DEVINT	000104'	EXT
DEVIOS	000002	INT
DEVLOG	000005	INT
DEVLST	000312'	EXT
DEVMOD	000004	INT
DEVNAM	000000	INT
DEVOAD	000010	INT
DEVPTR	000010	INT
DEVSER	000003	INT



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 SYMBOL TABLE

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
DVTY	000010	INT
ENTRB	020000	INT
ERNAM	000000	EXT
ERROR	000167'	EXT
EXECIS	000541'	
GET1	000400'	
GETLIN	000376'	
I	000010	INT
IB	000013	INT
IBUFB	200000	INT
INITR	400000	INT
INPB	010000	INT
INT	000005	
IO	000020	INT
IOACT	010000	INT
IOREG	000002	INT
IOBKTL	040000	INT
IOCON	000040	INT
IOCONF	000517'	
IODEND	020000	INT
IODERR	200000	INT
IODISC	400000	INT
IODONE	400000	INT
IODTER	100000	INT
IOEND	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
JBFADR	000000	INT

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 SYMBOL TABLE

JBFCR	000002	INT
JBFPR	000001	INT
JBUF	000005	INT
JDAT	000011	INT
JERR	002000	INT
JIOW	100000	INT
JNA	004000	INT
JORFF	000363'	EXT
JOBSYM	000135'	EXT
JRSTI	000147'	
JRSTI1	000143'	
LENGTH	000544'	
LINBUF	000444'	
LINEP	000443'	
LINKSR	000100'	INT
LOC40	000150'	
LOOKB	040000	INT
MAKEND	000353'	EXT
MTW	010000	INT
NDEVMI	000102'	EXT
NXM	010000	
OBUFB	100000	INT
OCTPNT	000371'	EXT
ONCE	000170'	INT
ONCE2	000355'	
ONCE3	000365'	
ONCE4	000317'	
ONCE5	000315'	
ONCE6	000324'	
ONCE7	000332'	
ONCEPD	000464'	
ONCEPN	000010	
OPOUT	000421'	
OPOUT1	000423'	
OPOUT2	000434'	
OUTPR	004000	INT
PATCH	000000'	INT
PDP	000003	INT
PICHN	000100	INT
PROG	000007	INT
RADX10	000325'	EXT
RUN	200000	INT
RUNABL	204000	INT
ST01	000140'	
SYSDAT	000212'	EXT
SYSDM	000536'	
SYSFIN	777777777777'	INT
SYSM	000524'	
SYSNUM	000206'	EXT
SYSSIZ	000370'	EXT
T	000001	
TAC	000001	INT
TAC1	000002	INT
TEM	000010	INT
THSDAT	000253'	EXT

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SYMBOL TABLE

TIME	000306'	EXT
TIMEM	000506'	
TIMLOP	000254'	
TODATE	000477'	
TSEXEC	000474'	
TTYATC	020000	INT
TTYUSE	010000	INT
USRMOD	010000	INT
UUO	000014	INT
UUO0	000151'	EXT

END OF ASSEMBLY