

01/25/82 13:50:00 ASSY 58

		ID	XECUTE	5% P,# P<\$<@("
		00001		
		00002		
		00003	ENTRY	XEQ, CHAYN, LIBFMT
		00004	ENTRY	IB, IF, IFCB
		00005	ENTRY	OB, OF, OFF, OFE
		00006	ENTRY	SO, SD, SH
		00007	ENTRY	PO, POE
		00008	ENTRY	P1, P1A, P2, P3, P4, P5
		00009	ENTRY	P5A, P8
		00010	ENTRY	P6, P7, P9E, P9EO
		00011	ENTRY	P16, P17
		00012	ENTRY	LIBSIX, LIBSCH
		00013	ENTRY	LIBPRP, LIBCAP
		00014	ENTRY	XEQDP1, XEQDP2
		00015	EXT	SYSRF, SYSEP, SYSNC
		00016	EXT	SYSDEV
		00017	EXT	ELEPH, ELFEBP
		00018	EXT	MRDRCP
		00019	EXT	OME
		00020	EXT	OOCORQ, OOCORL
		00021	EXT	Oobox, PRERE
		00022	EXT	PRCTBL, XPNMAX
		00023	EXT	OOCVIT, OOCVTA, OOCVTI
		00024	EXT	GOTIME
		00025	EXT	GETRD
		00026	EXT	DSPLAY
		00027	EXT	OOTYME
		00028	EXT	CORQS
		00029		
070000.000000		00030	MESS	OPD =070B8
071000.000000		00031	MSG	OPD =071B8
		00032		
	0	00033	XPRN	SYN 18
	0	00034	XSTAT	SYN 19
	0	00035	XRP	SYN 20
	0	00036	XEPT	SYN 21
	0	00037	XNM1	SYN 23
	0	00038	XNM2	SYN 24
	0	00039	XTRC	SYN 25
		00040		
	0	00041	XA	SYN 1B18
400000	0	00042	XS	SYN 1B19
200000	0	00043	XT	SYN 1B20
100000	0	00044	XH	SYN 1B21
040000	0	00045		
	0	00046	EOXER	SYN 18
000022	0	00047	FNCRD	SYN 0
000000	0	00048	FNCRF	SYN 1
000001	0	00049	FNWH	SYN 4
000004	0	00050	FNRH	SYN 5
000005	0	00051	FNEDK	SYN 7
000007	0	00052	FNENT	SYN 8
000010	0	00053	FNREP	SYN 9
000011	0			

000012	0	00054	FNDEL	SYN	10
000013	0	00055	FNASN	SYN	11
000014	0	00056	FNCHN	SYN	12
000015	0	00057	FNEOX	SYN	13
000016	0	00058	FNSRT	SYN	14
000017	0	00059	FNRST	SYN	15
000024	0	00060	FNLD	SYN	20
000030	0	00061	FNCPY	SYN	24
000032	0	00062	FNBDK	SYN	26
000040	0	00063	FNRDC	SYN	32
000041	0	00064	FNRMS	SYN	33
000044	0	00065	FNDST	SYN	36
000045	0	00066	FNHOW	SYN	37
000046	0	00067	FNUP	SYN	38
000060	0	00068	FNW	SYN	48
000064	0	00069	FNR	SYN	52
		00070			
000000	0	00071	LOC	SYN	0
		00072			
000007	0	00073	LFR07	SYN	=0 07
000012	0	00074	LFR12	SYN	=0 12
000025	0	00075	LFR25	SYN	=0 25
000054	0	00076	LFR54	SYN	=0 54
000055	0	00077	LFR55	SYN	=0 55
000060	0	00078	LFR60	SYN	=0 60
000061	0	00079	LFR61	SYN	=0 61

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/ INADEQUATE CLEARANCE
/ NOT A DIRECTORY
/ DIRECTORY ENTRY ERROR
/ ILLEGAL CHAIN NAME
/ ILLEGAL LINK NAME
/ NULL CHAIN NAME
/ USER INFO ERROR

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000000	261340.000004	10	00080	SKP			
000001	261340.000005	10	00081	PUSH	7, 4		
000002	261340.000006	10	00082	PUSH	7, 5		
000003	261340.000011	10	00083	PUSH	7, 6		
000004	261340.000012	10	00084	PUSH	7, 9		
000005	261340.000013	10	00085	PUSH	7, 10		
000006	201000.000224	11	00086	PUSH	7, 11		
000007	505000.400000	10	00087	MOVEI	LOC, XEQX	'INITIALIZE ERROR RETURN	
			00088	HRLI	LOC, 1B18	'SET . INDICATOR	
			00089				
000010	265600.000244	11	00090	JSP	12, XEQS1	'INITIALIZE TTY BFRS	
000011	261340.000002	10	00091	PUSH	7, 2	'SAVE TTY RESPONSE WORD	
000012	261340.000003	10	00092	PUSH	7, 3	'SAVE TTY OUTPUT FORMAT	
000013	603040.000007	10	00093	TLNE	1, 7	'SKIP IF INPUT MODE IS 7-BIT ASCII	
000014	265760.001050	11	00094	JSP*	15, XEQE1		
000015	553050.000005	10	00095	HRRZS	1, IBC+2(8)	'INDICATE NEW MESSAGE	
000016	336000.000001	10	00096	SKIPN	1	'SKIP IF INPUT	
000017	265760.001051	11	00097	JSP*	15, XEQE2		
			00098				
000020	201600.000023	11	00099	MOVEI	12, *+3		
000021	254000.006565	11	00100	J	1B		
000022	134500.000013	10	00101	ILDB	10, 11		
000023	302500.000012	10	00102	CAIE	10, .7/=L/	'LINE FEED	
000024	306500.000040	10	00103	CAIN	10, .7/ /		
000025	254000.000022	11	00104	J	*-3		
000026	302500.000056	10	00105	CAIE	10, .7/./		
000027	625000.400000	10	00106	TLZA	LOC, 1B18	'RESET . INDICATOR	
000030	134500.000013	10	00107	ILDB	10, 11		
000031	265600.006231	11	00108	JSP	12, SD		
000032	265760.001052	11	00109	JSP*	15, XEQE3	'END	
000033	265760.001052	11	00110	JSP*	15, XEQE3	'NO	
000034	200200.000015	10	00111	MOVE	4, 13	'NAME	
000035	200240.000016	10	00112	MOVE	5, 14		
000036	603540.000040	10	00113	TLNE	11, 1B30		
000037	246200.777772	10	00114	LSHC	4, -6	'INDICATE COMBINATION	
000040	265600.000303	11	00115	JSP	12, XEQS2	'BLANK OUT INPUT LINE	
			00116				
000041	321000.000060	11	00117	JUMPL	LOC, XEQ1A	'JUMP IF	
000042	326240.000060	11	00118	JUMPN	5, XEQ1A	'JUMP IF MORE THAN 6 CHARS	
000043	602200.777777	10	00119	TRNE	4, -1	'SKIP IF 3 OR LESS CHARS	
000044	254000.000053	11	00120	J	XEQ1		
000045	200040.001157	11	00121	MOVE	1, LIBTBL		
000046	510141.001157	11	00122	HLLZ	3, LIBTBL(1)		
000047	312200.000003	10	00123	CAME	4, 3		
000050	367040.000046	11	00124	SOJG	1, *-2		
000051	200141.001157	11	00125	MOVE	3, LIBTBL(1)		
000052	327040.000123	11	00126	JUMPG	1, XEQR1	'JUMP TO TREAT LIB FUNCTION	
			00127				
000053	205040.777755	10	00128	MOVSI	1, -XEQM		
000054	316201.000700	11	00129	CAMN	4, XEQT1+1(1)		
000055	254000.000122	11	00130	J	XEQR	'JUMP TO TREAT RESIDENT CODE	
000056	350000.000001	10	00131	AOS	1		
000057	253040.000054	11	00132	AOBJN	1, *-3		
			00133				

000060	265600	.000114	11	00134	XEQ1A
000061	661000	.000001	10	00135	
000062	321000	.000073	11	00136	
000063	205040	.777766	10	00137	
000064	316201	.000746	11	00138	XEQ2
000065	312241	.000747	11	00139	
000066	254000	.000071	11	00140	
000067	254000	.000126	11	00141	
000070	370001	.000745	11	00142	XEQ2A
000071	271040	.000003	10	00143	
000072	253040	.000064	11	00144	
000073	554040	.000007	10	00145	
000074	332000	.000001	10	00146	XEQ3
000075	301040	.777745	10	00147	
000076	265760	.001056	11	00148	
000077	270340	.000664	11	00149	
000100	661000	.000002	10	00150	
000101	336000	.000666	11	00151	
000102	264000	.000631	11	00152	
000103	265440	.000327	11	00153	
000104	254000	.000362	11	00154	
000105	402000	.000666	11	00155	
000106	264000	.000631	11	00156	
000107	265440	.000327	11	00157	
000110	254000	.000362	11	00158	
000111	623000	.000001	10	00159	
000112	476000	.000665	11	00160	
000113	254000	.006200	11	00161	
000114	200700	.034000	1F	00162	
000115	201740	.000665	11	00163	XEQLK
000116	247717	.000000	10	00164	
000117	331000	.000016	10	00165	
000120	077000	.000040	10	00166	
000121	254014	.000000	10	00167	
				00168	
				00169	
				00170	

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JSP      12, XEQLK
TLO      LOC, 1
JUMPL   LOC, XEQ3
MOVSI    1, -XEON
CAMN     4, XEQ2+1(1)
CAME     5, XEQ2+2(1)
J        *+3
J        XEQT
SOS      XEQT2(1)
ADDI     1, 3
AOBJN    1, XEQ2
          'JUMP TO TREAT TABLED CODE

HLRZ     1, 7
SKIPE    1
CAIL     1, -XEQSZ-10
JSP*     15, XEQE7
ADD      7, XEQS
TLO      LOC, 2
SKIPN    XEQST
JSR      SYM
JSP      9, LDRO
J        LDR
Z        XEQST
JSR      SYM
JSP      9, LDRO
J        LDR
TLZE     LOC, 1
SETOM    XEQL
J        ELFE
          'OK RETURN
          'OK RETURN
          'UNLOCK

MOVE     14, OOME
MOVEI    15, XEQL
EXCHN    14, (15)
SKIPL    14
TRAP     .L
J        (12)

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'INDICATE LOCK IS SET
'JUMP IF . INDICATION

'CHECK
'PDL SIZE

'INDICATE MAXIMUM PDL
'SKIP IF LOAD CAPABILITY IS IN CORE

'OK RETURN
'OK RETURN
'UNLOCK

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PICK UP CODE TYPE
SKIP IF NO-EXCHANGE CODE
STORE
STORE WITH PMA, CODE E.P.
NAME TEL FOR
NAME RETURN CODE
INDICATE NEW MESSAGE

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			00171	SKP				
			00172	TREAT RESIDENT CODE				
			00173					
000122	200141	000677	11	00174	XEQR	MOVE	3, XEQT1(1)	'PICK UP CODE E.P.
000123	553010	000006	10	00175	XEQR1	HRRZS	IBC+2(8)	'INDICATE NEW MESSAGE
000124	260343	000000	10	00176		PUSHJ	7, (3)	'EXECUTE CODE
000125	254000	000205	11	00177		J	XEQZ	
				00178				
				00179	TREAT TABLED CODE (RE-ENTRANT AND IN CORE)			
				00180				
000126	350101	000745	11	00181	XEQT	AOS	2, XEQT2(1)	
000127	307100	000001	10	00182		CAIG	2, 1	
000130	254000	000070	11	00183		J	XEQ2A	
000131	623000	000001	10	00184		TLZE	LOC, 1	'SKIP IF LOCK IS NOT SET
000132	476000	000665	11	00185		SETOM	XEQL	'UNLOCK
000133	200141	000750	11	00186		MOVE	3, XEQT2+3(1)	'PICK UP CODE E.P.
000134	550100	000001	10	00187		HRRZ	2, 1	'SAVE TABLE PTR
000135	254000	000167	11	00188		J	XEQQ	
				00189				
				00190	TREAT LOADED CODE			
				00191				
000136	200706	000005	10	00192	XEQF	MOVE	14, 5(6)	'POINT TO TEMP BFR
000137	505700	000667	11	00193		HRLI	14, XEQNM1	
000140	265640	044000	1F	00194		JSP	13, 00CORL	
000141	200146	000000	10	00195		MOVE	3, (6)	'PICK UP CODE E.P.
000142	270146	000004	10	00196		ADD	3, 4(6)	'ADD CODE BFR FWA
000143	504146	000004	10	00197		HRL	3, 4(6)	
000144	200100	000003	10	00198		MOVE	2, 3	
000145	554046	000000	10	00199		HLRZ	1, (6)	'PICK UP CODE TYPE
000146	274340	000664	11	00200		SUB	7, XEQS	
000147	331000	000000	10	00201		SKIPL	LOC	'SKIP IF
000150	336000	000001	10	00202		SKIPN	1	'SKIP IF RE-ENTRANT CODE
000151	254000	000167	11	00203		J	XEQQ	
				00204				
000152	265600	000114	11	00205		JSP	12, XEQLK	
000153	205040	777766	10	00206		MOVSI	1, -XEQN	
000154	336001	000745	11	00207		SKIPN	XEQT2(1)	
000155	254000	000161	11	00208		J	XEQF1	
000156	271040	000003	10	00209		ADDI	1, 3	
000157	253040	000154	11	00210		AOBJN	1, *-3	
000160	254000	000166	11	00211		J	XEQF2	
000161	202201	000746	11	00212	XEQF1	MOVEM	4, XEQT2+1(1)	'STORE
000162	202241	000747	11	00213		MOVEM	5, XEQT2+2(1)	'NAME
000163	202141	000750	11	00214		MOVEM	3, XEQT2+3(1)	'STORE BFR FWA, CODE E.P.
000164	350001	000745	11	00215		AOS	XEQT2(1)	
000165	550100	000001	10	00216		HRRZ	2, 1	'SAVE TBL PTR
000166	476000	000665	11	00217	XEQF2	SETOM	XEQL	'UNLOCK
				00218				
				00219				
000167	261340	000002	10	00220	XEQQ	PUSH	7, 2	'SAVE RETURN INFO
000170	335000	000000	10	00221		SKIPGE	LOC	'SKIP IF NO
000171	201140	004166	11	00222		MOVEI	3, PROCL	
000172	553010	000006	10	00223		HRRZS	IBC+2(8)	'INDICATE NEW MESSAGE
000173	260343	000000	10	00224		PUSHJ	7, (3)	'EXECUTE CODE


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00225      ON RETURN, 0(7) = (TABLED) 0, TABLE PTR
00226      (LOADED) BFR FWA, CODE E.P.
00227      (LOADED) BFR FWA, CODE E.P.
00228
000174 262340.000003 10 00229      POP 7, 3
000175 204700.000003 10 00230      MOVS 14, 3
000176 603140.777777 10 00231      TLNE 3, -1          *SKIP IF TABLED CODE
000177 254000.000203 11 00232      J *+4
000200 204703.000750 11 00233      MOVS 14, XEQT2+3(3)
000201 372003.000745 11 00234      SOSE XEQT2(3)
000202 254000.000205 11 00235      J XEQZ
000203 505700.000671 11 00236      HRLI 14, XEQNM2
000204 265640.044000 1F 00237      JSP 13, 00C0RL
00238
000205 265600.000244 11 00239      XEQZ      JSP 12, XEQS1      *INITIALIZE TTY BFRS
000206 262340.000003 10 00240      POP 7, 3      *PICK UP TTY OUTPUT FORMAT
000207 262340.000002 10 00241      POP 7, 2      *PICK UP TTY RESPONSE WORD
000210 202110.000007 10 00242      MOVEM 2, IBC+3(8)      *RESTORE ORIGINAL RESPONSE WORD
000211 205100.000017 10 00243      MOVS1 2, =017
000212 412110.000000 10 00244      ANDCAM 2, OBC(8)      *CLEAR FORMAT BITS
000213 436150.000000 10 00245      IORM 3, OBC(8)      *RESTORE ORIGINAL FORMAT
00246
000214 265600.006601 11 00247      JSP 12, IF
000215 262340.000013 10 00248      POP 7, 11
000216 262340.000012 10 00249      POP 7, 10
000217 262340.000011 10 00250      POP 7, 9
000220 262340.000006 10 00251      POP 7, 6
000221 262340.000005 10 00252      POP 7, 5
000222 262340.000004 10 00253      POP 7, 4
000223 263340.000000 10 00254      POPJ 7,

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000224 265600.006541 11 00255 SKP
000225 623000.000001 10 00256 XEQX JSP 12, OF
000226 476000.000665 11 00257 TLZE LOC, 1 'SKIP IF LOCK IS NOT SET
000227 627000.000010 10 00258 SETOM XEQL 'UNLOCK
000230 254000.000234 11 00259 TLZN LOC, 8 'SKIP IF TEMP BFR
000231 200706.000005 10 00260 J XEQX2
000232 505700.000667 11 00261 MOVE 14, 5(6)
000233 265640.044000 1F 00262 HRLI 14, XEQNM1
000234 627000.000020 10 00263 JSP 13, OOCORL
000235 254000.000241 11 00264 XEQX2 TLZN LOC, 16 'SKIP IF CODE BFR
000236 200706.000004 10 00265 J XEQX3
000237 505700.000671 11 00266 MOVE 14, 4(6)
000240 265640.044000 1F 00267 HRLI 14, XEQNM2
000241 623000.000002 10 00268 JSP 13, OOCORL
000242 274340.000664 11 00269 XEQX3 TLZE LOC, 2 'SKIP IF MINIMUM PDL
000243 254000.000205 11 00270 SUB 7, XEQS
00271 J XEQZ
00272
00273 'INITIALIZE TTY BUFFERS
00274
000244 200100.034000 1F 00275 XEQS1 MOVE 2, OOME
000245 660100.400000 10 00276 TRO 2, 1B18 'SET WAKE BIT
000246 250110.000007 10 00277 EXCH 2, IBC+3(8) 'SET AND SAVE RESPONSE WORD
000247 205140.000017 10 00278 MOVSI 3, =017
000250 404150.000000 10 00279 AND 3, OBC(8) 'SAVE OUTPUT FORMAT
000251 205040.000010 10 00280 MOVSI 1, =010
000252 436050.000000 10 00281 TORM 1, OBC(8) 'SET WRITER CALL BIT
000253 336010.000002 10 00282 SKIPN OBC+2(8) 'SKIP IF OUTPUT BFR IS FULL
000254 254000.000265 11 00283 J XEQS1A
000255 200710.000003 10 00284 MOVE 14, OBC+3(8)
000256 205740.000004 10 00285 MOVSI 15, 4 '256 MS
000257 077000.000211 10 00286 TRAP .ATR
000260 254000.000263 11 00287 J *+3
000261 205740.000004 10 00288 MOVSI 15, 4
000262 077000.000210 10 00289 TRAP .AT
000263 332010.000002 10 00290 SKIPE OBC+2(8) 'SKIP IF OUTPUT BFR IS EMPTY
000264 254000.000261 11 00291 J *-3
000265 205040.000007 10 00292 XEQS1A MOVSI 1, 7
000266 412050.000000 10 00293 ANDCAM 1, OBC(8) 'SET OUTPUT MODE TO 7-BIT ASCII
00294
000267 205040.000020 10 00295 MOVSI 1, =020
000270 437050.000004 10 00296 IORB 1, IBC(8) 'SET READER CALL BIT, SAVE INPUT MODE
000271 205700.400000 10 00297 MOVSI 14, 1B18 'CLEAR
000272 412710.000005 10 00298 ANDCAM 14, IBC+1(8) 'BREAK
000273 336010.000006 10 00299 SKIPN IBC+2(8) 'SKIP IF INPUT BFR IS FULL
000274 255000.000300 11 00300 JFCL XEQS1B
000275 205700.000007 10 00301 MOVSI 14, 7
000276 412710.000004 10 00302 ANDCAM 14, IBC(8) 'SET INPUT MODE TO 7-BIT ASCII
000277 254014.000000 10 00303 J (12)
000300 607040.000007 10 00304 XEQS1B TLNN 1, 7 'SKIP IF INPUT MODE IS NOT 7-BIT ASCII
000301 254014.000000 10 00305 J (12)
000302 000000.000000 10 00306 EXP 0 'WRONG MODE IN EMPTY TTY INPUT BFR
00307
00308

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000303	621540	.000040	10	00309	XEQS2	TLZ	11,	1B30	'CLEAR COMBINATION BIT
000304	200510	.000004	10	00310		MOVE	10,	IBC(8)	'POINT TO INPUT BFR
000305	505500	.350700	10	00311		HRLI	10,	=0350700	
000306	201740	.000040	10	00312		MOVEI	15,	.7/ /	
000307	137740	.000012	10	00313		DPB	15,	10	
000310	133000	.000012	10	00314		IBP	10		
000311	312500	.000013	10	00315		CAME	10,	11	
000312	254000	.000307	11	00316		J	*-3		
000313	135500	.000013	10	00317		LDB	10,	11	
000314	302500	.000040	10	00318		CAIE	10,	.7/ /	
000315	254000	.000320	11	00319		J	*+3		
000316	134500	.000013	10	00320		ILDB	10,	11	
000317	254000	.000314	11	00321		J	*-3		
000320	302500	.000012	10	00322		CAIE	10,	.7/=L/	
000321	306500	.000027	10	00323		CAIN	10,	=027	'CONTROL W'
000322	254000	.006601	11	00324		J	IF		
000323	302500	.000015	10	00325		CAIE	10,	.7 /=C/	
000324	306500	.000004	10	00326		CAIN	10,	4	'CONTROL D'
000325	254000	.006601	11	00327		J	IF		
000326	254014	.000000	10	00328		J	(12)		

000327	201160	000526	11	00329	
000330	201043	777775	10	00330	LDRO
000331	505040	000013	10	00331	
000332	202043	000000	10	00332	
000333	201060	000627	11	00333	
000334	505040	000673	11	00334	
000335	202043	000001	10	00335	
000336	202203	000002	10	00336	
000337	202243	000003	10	00337	
000340	265600	006145	11	00338	
000341	254011	000001	10	00339	
000342	623000	000001	10	00340	
000343	476000	000665	11	00341	
000344	201040	000064	10	00342	
000345	506043	000000	10	00343	
000346	201320	000625	11	00344	
000347	505300	000004	10	00345	
000350	202303	000002	10	00346	
000351	402003	000003	10	00347	
000352	265600	006145	11	00348	
000353	265760	001053	11	00349	
000354	302740	000004	10	00350	
000355	265760	001053	11	00351	
000356	554046	000000	10	00352	
000357	303040	000001	10	00353	
000360	265760	001053	11	00354	
000361	254011	000000	10	00355	
				00356	
				00357	
				00358	
				00359	
				00360	
				00361	

```

SKP
MOVEI* 3, LDRCS
MOVEI 1, -3(3)
HRLI 1, FNASN
MOVEM 1, (3)
MOVEI* 1, LDRCP
HRLI 1, XEQLD
MOVEM 1, 1(3)
MOVEM 4, 2(3)
MOVEM 5, 3(3)
JSP 12, ELF
J 1(9)
TLZE LOC, 1
SETOM XEGL
MOVEI 1, FNR
HRLM 1, (3)
MOVEI* 6, LDRWS
HRLI 6, 4
MOVEM 6, 2(3)
Z 3(3)
JSP 12, ELF
JSP* 15, XEQE4
CAIE 15, 4
JSP* 15, XEQE4
HLRZ 1, (6)
CAILE 1, 1
JSP* 15, XEQE4
J (9)

```

'POINT TO TB

'J, I

'STORE

'NAME

'ASSIGN FILE FROM LOAD DIRECTORY

'UNLOCK

'WC, CORE FWA

'FILE ADDRESS

'READ FILE CONTROL INFO

'CHECK WC

'PICK UP CODE TYPE

```

0(6) CODE TYPE, E.P. VALUE
1(6) SIZE, CODE FWA
2(6) SIZE, BASES FWA
3(6) COUNT, FWA OF UNDEF EXTERNALS

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000362	554706	000002	10	00362	SKP			
000363	554106	000003	10	00363	LDR	HLRZ	14, 2(6)	'PICK UP BASES SIZE
000364	270700	000002	10	00364		HLRZ	2, 3(6)	'PICK UP EXT COUNT
000365	201040	000667	11	00365		ADD	14, 2	
000366	265600	000616	11	00366		MOVEI	1, XEQNM1	'OOCORQ ID
000367	661000	000010	10	00367		JSP	12, LDRS1	
000370	500706	000002	10	00368		TLO	LOC, 8	'INDICATE TEMP BFR
000371	202706	000005	10	00369		HLL	14, 2(6)	
000372	554706	000001	10	00370		MOVEM	14, 5(6)	'BASES SIZE, TEMP BFR FWA
000373	201040	000671	11	00371		HLRZ	14, 1(6)	'PICK UP CODE SIZE
000374	265600	000616	11	00372		MOVEI	1, XEQNM2	'OOCORQ ID
000375	661000	000020	10	00373		JSP	12, LDRS1	
000376	500706	000001	10	00374		TLO	LOC, 16	'INDICATE CODE BFR
000377	202706	000004	10	00375		HLL	14, 1(6)	
000400	201040	000000	10	00376		MOVEM	14, 4(6)	'CODE SIZE, CODE BFR FWA
000401	250046	000003	10	00377		MOVEI	1, 0	
000402	322100	000514	11	00378		EXCH	1, 3(6)	'SET EXT COUNT TO ZERO
				00379		JUMPE	2, LDR1	'JUMP IF NO UNDEF EXTERNALS
				00380				
000403	202106	000003	10	00381		MOVEM	2, 3(6)	'STORE EXT COUNT
000404	552043	000003	10	00382		HRRZM	1, 3(3)	'EXT FILE ADDRESS
000405	242100	000001	10	00383		LSH	2, 1	
000406	204046	000004	10	00384		MOVS	1, 4(6)	
000407	303101	000000	10	00385		CAILE	2, (1)	'SKIP IF EXT NAMES WILL FIT IN CODE BFR
000410	265760	001053	11	00386		JSP*	15, XEQE4	
000411	540040	000002	10	00387		HRR	1, 2	
000412	206043	000002	10	00388		MOVSM	1, 2(3)	'WC, CORE FWA
000413	265600	006145	11	00389		JSP	12, ELF	'READ EXT NAMES INTO CODE BFR
000414	265760	001053	11	00390		JSP*	15, XEQE4	
000415	312740	000002	10	00391		CAME	15, 2	'CHECK WC
000416	265760	001053	11	00392		JSP*	15, XEQE4	
000417	200106	000004	10	00393		MOVE	2, 4(6)	'POINT TO EXT NAMES
000420	210046	000003	10	00394		MOVN	1, 3(6)	'PICK UP EXT COUNT
000421	504100	000001	10	00395		HRL	2, 1	
000422	200040	004000	1F	00396		MOVE	1, SYSEP	'POINT TO SYSTEM ENTRY NAMES
				00397				
000423	200642	000000	10	00398	LDRX	MOVE	13, (2)	'PICK UP EXT NAME
000424	607640	777700	10	00399		TLNN	13, =0777700	'SKIP IF NOT NC OR DEFINED EXT
000425	254000	000466	11	00400		J	LDRDE	
000426	200702	000001	10	00401		MOVE	14, 1(2)	
000427	242700	777764	10	00402		LSH	14, -12	
000430	317641	000001	10	00403	LDRX1	CAMG	13, 1(1)	
000431	254000	000445	11	00404		J	LDRX4	
000432	271040	000002	10	00405	LDRX2	ADDI	1, 2	
000433	253040	000430	11	00406		AOBJN	1, LDRX1	
000434	275040	000003	10	00407		SUBI	1, 3	
000435	661000	100000	10	00408	LDRX3	TLO	LOC, 1B20	'INDICATE UNDEF EXT
000436	242700	000014	10	00409		LSH	14, 12	
000437	265600	006532	11	00410		JSP	12, OB	
000440	265600	006374	11	00411		JSP	12, P3	'STACK NAME
000441	265600	006367	11	00412		JSP	12, P2	
000442	265600	006541	11	00413		JSP	12, OF	
000443	252100	000511	11	00414		AOBJP	2, LDRX5	
000444	344100	000423	11	00415		AOJA	2, LDRX	'PICK UP BASES WC, TEMP BFR FWA

000445	312641	.000001	10	00416	LDRX4	CAME	13, 1(1)	
000446	254000	.000435	11	00417	J	LDRX3		
000447	200741	.000002	10	00418	MOVE	15, 2(1)		
000450	242740	.777764	10	00419	LSH	15, -12		
000451	313700	.000017	10	00420	CAML	14, 15		
000452	254000	.000432	11	00421	J	LDRX2		
000453	312700	.000017	10	00422	CAME	14, 15		
000454	254000	.000435	11	00423	J	LDRX3		
000455	550741	.000000	10	00424	HRRZ	15, (1)		
000456	200702	.000001	10	00425	LDRXX	14, 1(2)		'GET EXT REF NO.
000457	405700	.007777	10	00426	ANDI	14, =07777		
000460	311706	.000003	10	00427	CAML	14, 3(6)		
000461	265760	.001053	11	00428	JSP*	15, XEQE4		'POINT TO EXT DEF SLOT
000462	270706	.000005	10	00429	ADD	14, 5(6)		'STORE EXT VALUE
000463	202756	.000000	10	00430	MOVEM	15, (14)		
000464	252100	.000511	11	00431	AOBJP	2, LDRX5		
000465	344100	.000423	11	00432	AOJA	2, LDRX		
				00433				'SKIP IF BASIS VALUE
000466	603640	.777776	10	00434	LDRDE	TLNE	13, =077776	
000467	254000	.000474	11	00435	J	LDRNC		'SKIP IF BASIS IS ZERO
000470	603640	.000001	10	00436	TLNE	13, 1		'RELOCATE BASIS 1
000471	270646	.000004	10	00437	ADD	13, 4(6)		
000472	550740	.000015	10	00438	HRRZ	15, 13		
000473	254000	.000456	11	00439	J	LDRXX		
000474	200702	.000001	10	00440	LDRNC	MOVE	14, 1(2)	'SKIP IF NC IS LAST EXT NAME
000475	252100	.000477	11	00441	AOBJP	2, *+2		
000476	265760	.001053	11	00442	JSP*	15, XEQE4		
000477	246640	.000014	10	00443	LSHC	13, 12		
000500	200040	.010000	1F	00444	MOVE	1, SYSNC		
000501	271040	.000002	10	00445	ADDI	1, 2		
000502	316641	.777777	10	00446	CAMN	13, -1(1)		
000503	312701	.000000	10	00447	CAME	14, (1)		
000504	253040	.000501	11	00448	AOBJN	1, *-3		
000505	242700	.777764	10	00449	LSH	14, -12		'JUMP IF NAMED COMMON IS UNDEFINED
000506	325040	.000435	11	00450	JUMPGE	1, LDRX3		'PICK UP NC VALUE
000507	560101	.777776	10	00451	HRRZ	2, -2(1)		'REDUCE EXT COUNT
000510	370006	.000003	10	00452	SOS	3(6)		'JUMP IF
000511	321000	.000514	11	00453	LDRX5	LOC, LDR1		'SKIP IF NO UNDEF EXT
000512	603000	.100000	10	00454	TLNE	LOC, 1B20		
000513	265760	.001057	11	00455	JSP*	15, XEQE8		
				00456				'X2 IS NEGATIVE IF NAMED COMMON
				00457				
				00458				
000514	550046	.000001	10	00459	LDR1	HRRZ	1, 1(6)	'STORE CODE FILE ADDRESS
000515	202043	.000003	10	00460	MOVEM	1, 3(3)		
000516	204046	.000004	10	00461	MOVS	1, 4(6)		'CODE WC, CODE BFR FWA
000517	206043	.000002	10	00462	MOVSM	1, 2(3)		'READ CODE INTO CODE FILE
000520	265600	.006145	11	00463	JSP	12, ELF		
000521	265760	.001053	11	00464	JSP*	15, XEQE4		'CHECK WC
000522	302741	.000000	10	00465	CAIE	15, (1)		
000523	265760	.001053	11	00466	JSP*	15, XEQE4		
000524	250106	.000002	10	00467	EXCH	2, 2(6)		'STORE BASES FILE ADDRESS
000525	552103	.000003	10	00468	HRRZM	2, 3(3)		'PICK UP BASES WC, TEMP BFR FWA
000526	200106	.000005	10	00469	MOVE	2, 5(6)		

000527	554040	000002	10	00470	HLRZ	1, 2	
000530	270106	000003	10	00471	ADD	2, 3(6)	'ADD EXT COUNT
000531	202103	000002	10	00472	MOVEM	2, 2(3)	'BASES WC, BASES CORE FWA
000532	265600	006145	11	00473	JSP	12, ELF	'READ BASES INTO TEMP BFR
000533	265760	001053	11	00474	JSP*	15, XEQE4	
000534	312740	000001	10	00475	CAME	15, 1	'CHECK WC
000535	265760	001053	11	00476	JSP*	15, XEQE4	
000536	641100	777777	10	00477	TLC	2, -1	'GET COMP OF BASES WC+1
000537	200146	000004	10	00478	MOVE	3, 4(6)	
000540	641140	777777	10	00479	TLC	3, -1	'GET COMP OF CODE WC+1
000541	550700	000003	10	00480	HRRZ	14, 3	'RELOCATION INCREMENT
				00481			
000542	200040	000003	10	00482	LDR2	MOVE 1, 3	
000543	252140	000136	11	00483	AOBJP	3, XEQF	'EXIT IF NO MORE BINARY WORDS
000544	252100	000604	11	00484	AOBJP	2, LDRE	'JUMP IF NO MORE BASES WORDS
000545	270140	000630	11	00485	ADD	3, LDRK1	'8, 8
000546	336442	777777	10	00486	SKIPN	9, -1(2)	'PICK UP BASES WORD
000547	254000	000542	11	00487	J	LDR2	
000550	603440	600000	10	00488	LDR3	TLNE 9, 3B19	
000551	254000	000560	11	00489	J	LDR4	
000552	242440	000002	10	00490	LSH	9, 2	
000553	603440	600000	10	00491	TLNE	9, 3B19	
000554	254000	000570	11	00492	J	LDR4A	
000555	242440	000002	10	00493	LDR3A	LSH 9, 2	
000556	322440	000542	11	00494	JUMPE	9, LDR2	
000557	344040	000550	11	00495	AOJA	1, LDR3	
				00496			
000560	554601	000000	10	00497	LDR4	HLRZ 12, (1)	
000561	335000	000011	10	00498	SKIPGE	9	
000562	265740	000600	11	00499	JSP	15, LDR5	
000563	270600	000016	10	00500	ADD	12, 14	
000564	506601	000000	10	00501	HRLM	12, (1)	
000565	242440	000002	10	00502	LSH	9, 2	
000566	607440	600000	10	00503	TLNN	9, 3B19	
000567	254000	000555	11	00504	J	LDR3A	
000570	550601	000000	10	00505	LDR4A	HRRZ 12, (1)	
000571	335000	000011	10	00506	SKIPGE	9	
000572	265740	000600	11	00507	JSP	15, LDR5	
000573	270600	000016	10	00508	ADD	12, 14	
000574	542601	000000	10	00509	HRRM	12, (1)	
000575	242440	000002	10	00510	LSH	9, 2	
000576	322440	000542	11	00511	JUMPE	9, LDR2	
000577	344040	000550	11	00512	AOJA	1, LDR3	
000600	607440	200000	10	00513	LDR5	TLNN 9, 1B19	'SKIP IF BASIS IS 3
000601	254000	000612	11	00514	J	LDR6	
000602	246600	777765	10	00515	LSHC	12, -11	
000603	311606	000003	10	00516	CAML	12, 3(6)	
000604	265760	001053	11	00517	LDR6	JSP* 15, XEQE4	
000605	270606	000005	10	00518	ADD	12, 5(6)	
000606	200614	000000	10	00519	MOVE	12, (12)	'PICK UP EXT VALUE
000607	240640	777747	10	00520	ASH	13, -25	
000610	270600	000015	10	00521	ADD	12, 13	
000611	254017	000001	10	00522	J	1(15)	
000612	331006	000002	10	00523	LDR6	SKIPL 2(6)	'SKIP IF NC IS LEGAL

000613	265760.001053	11	00524	JSP*	15, XEQE4	
000614	270606.000002	10	00525	ADD	12, 2(6)	
000615	254017.000001	10	00526	J	1(15)	
			00527			
000616	332000.000016	10	00528	LDRS1 SKIPE	14	
000617	303700.040000	10	00529	CAILE	14, 16384	
000620	265760.001053	11	00530	JSP*	15, XEQE4	
000621	504700.000001	10	00531	HRL	14, 1	
000622	265640.040000	1F	00532	JSP	13, 00CGRQ	
000623	326714.000000	10	00533	JUMPN	14, (12)	
000624	265760.001054	11	00534	JSP*	15, XEQE5	
			00535			
000625	254007.777760	10	00536	LDRWS	J	-16(7) '6 WORDS
000626	254007.777771	10	00537	LDRCS	J	-7(7) '3+4 WORDS
000627	254007.777775	10	00538	LDRCP	J	-3(7) '4 WORDS
000630	000010.000010	10	00539	LDRK1	XW	8, 8

000631	000000	000000	10	00540	SKP		
000632	205040	030000	1F	00541	'GET LOAD CAPABILITY INTO CORE		
000633	541040	000673	11	00542			
000634	251040	000676	11	00543	SYM		
000635	201160	000626	11	00544	MOVSI	1, MRDRCP	
000636	201043	777775	10	00545	HRR1	1, XEQLD	
000637	505040	000013	10	00546	BLT	1, XEQLD+3	
000640	202043	000000	10	00547	MOVEI*	3, LDRCS	
000641	205040	000673	11	00548	MOVEI	1, -3(3)	'POINT TO TB
000642	541040	000673	11	00549	HRLI	1, FNASN	
000643	202043	000001	10	00550	MOVEM	1, (3)	
000644	334040	000645	11	00551	MOVSI	1, XEQLD	
000645	637163	644555	10	00552	HRR1	1, XEQLD	
000646	202043	000002	10	00553	MOVEM	1, 1(3)	'J, 1
000647	402003	000003	10	00554	SKIPA	1, *+1	
000650	265600	006145	11	00555	EXP	6/SYSTEM/	
000651	254000	006200	11	00556	MOVEM	1, 2(3)	'STORE
000652	201040	000673	11	00557	Z	3(3)	'NAME
000653	542043	000001	10	00558	JSP	12, ELF	'ASSIGN SYSTEM DIRECTORY
000654	334040	000655	11	00559	J	ELFE	
000655	545741	440000	10	00560	MOVEI	1, XEQLD	
000656	202043	000002	10	00561	HRR1	1, 1(3)	'I
000657	402003	000003	10	00562	SKIPA	1, *+1	
000660	265600	006145	11	00563	EXP	6/LOAD /	
000661	254000	006200	11	00564	MOVEM	1, 2(3)	'STORE
000662	476000	000666	11	00565	Z	3(3)	'NAME
000663	254120	000631	11	00566	JSP	12, ELF	'ASSIGN LOAD DIRECTORY
				00567	J	ELFE	
				00568	SETOM	XEQST	'INDICATE LOAD CAPABILITY IS IN CORE
				00569	J*	2, SYM	

000723	000000	000000	10	00570	EXP	FTB, 6/FTB	
000724	000000	000000	10	00571	EXP	DISPLAY, 6/DEP	
000725	000000	000000	10	00572	EXP	TIME, 6/TIME	
000726	000000	000000	10	00573	EXP	CORE, 6/CORE	
000727	000000	000000	10	00574	EXP	WD, 6/WD	
000728	000000	000000	10	00575	EXP	OPY, 6/OPY	
000729	000000	000000	10	00576	EXP	DR, 6/DR	
000730	000000	000000	10	00577	EXP	HOW, 6/HOW	
000731	000000	000000	10	00578	EXP	ROOT, 6/ROOT	
000732	000000	000000	10	00579	EXP		
000733	000000	000000	10	00580	EXP		
000734	000000	000000	10	00581	EXP		
000735	000000	000000	10	00582	EXP		
000736	000000	000000	10	00583	EXP		
000737	000000	000000	10	00584	EXP		
000738	000000	000000	10	00585	EXP		
000739	000000	000000	10	00586	EXP		
000740	000000	000000	10	00587	EXP		
000741	000000	000000	10	00588	EXP		
000742	000000	000000	10	00589	EXP		
000743	000000	000000	10	00590	EXP		
000744	000000	000000	10	00591	EXP		
000745	000000	000000	10	00592	EXP		

000746	000000	000000	10	00593	EXP		
000747	000000	000000	10	00594	EXP		
000748	000000	000000	10	00595	EXP		
000749	000000	000000	10	00596	EXP		
000750	000000	000000	10	00597	EXP		
000751	000000	000000	10	00598	EXP		
000752	000000	000000	10	00599	EXP		
000753	000000	000000	10	00600	EXP		
000754	000000	000000	10	00601	EXP		
000755	000000	000000	10	00602	EXP		

		000012	0	00570	SKP		
		000021	0	00571 XEQN	SYN	10	
		000021	10	00572 XEQSZ	SYN	6+7+4	
000664	000021	000021	10	00573 XEQS	XW	XEQSZ, XEQSZ	
000665	777777	777777	10	00574 XEQL	EXP	-1	
000666	000000	000000	10	00575 XEQST	EXP	0	
000667	704561	006445	10	00576 XEQNM1	EXP	.6/XEQ TE/, .6/MP BFR/	
000670	556000	424662	10				
000671	704561	004357	10	00577 XEQNM2	EXP	.6/XEQ CO/, .6/DE BFR/	
000672	444500	424662	10				
000673		000004	10	00578 XEQLD	BLR	4	
000677	000000	004220	11	00579 XEQT1	EXP	PROC, .6/PROC /	
000700	606257	430000	10				
000701	000000	002052	11	00580	EXP	LST, .6/LST /	
000702	546364	000000	10				
000703	000000	002272	11	00581	EXP	WF, .6/WF /	
000704	674600	000000	10				
000705	000000	001560	11	00582	EXP	PRM, .6/PRM /	
000706	606255	000000	10				
000707	000000	001604	11	00583	EXP	PRL, .6/PRL /	
000710	606254	000000	10				
000711	000000	001526	11	00584	EXP	BDK, .6/BDK /	
000712	424453	000000	10				
000713	000000	001514	11	00585	EXP	EDK, .6/EDK /	
000714	454453	000000	10				
000715	000000	001214	11	00586	EXP	CRF, .6/CRF /	
000716	436246	000000	10				
000717	000000	002357	11	00587	EXP	RH, .6/RH /	
000720	625000	000000	10				
000721	000000	002357	11	00588	EXP	RH, .6/RHD /	
000722	625044	000000	10				
000723	000000	002604	11	00589	EXP	PTR, .6/PTR /	
000724	606462	000000	10				
000725	000000	114000	1F	00590	EXP	DSPLAY, .6/DSP /	
000726	446360	000000	10				
000727	000000	003646	11	00591	EXP	TIME, .6/TIME /	
000730	645155	450000	10				
000731	000000	003745	11	00592	EXP	CORE, .6/CORE /	
000732	435762	450000	10				
000733	000000	002314	11	00593	EXP	WC, .6/WC /	
000734	674300	000000	10				
000735	000000	002530	11	00594	EXP	CPY, .6/CPY /	
000736	436071	000000	10				
000737	000000	001317	11	00595	EXP	DPR, .6/DPR /	
000740	446062	000000	10				
000741	000000	001677	11	00596	EXP	HOW, .6/HOW /	
000742	505767	000000	10				
000743	000000	001474	11	00597	EXP	ROOT, .6/ ROOT /	
000744	006257	576400	10				
000745		000050	10	00598 XEQT2	BLR	XEQN*4	
		000046	0	00599 XEQMM	SYN	XEQT2-XEQT1	
		000023	0	00600 XEQM	SYN	XEQMM/2	
001015	000000	000000	10	00601 XEQTVS	EXP	0	'TVN+1
				00602			

001016	200757.777777	10	00603	XEQE	MOVE	15, -1(15)	
001017	510557.000000	10	00604		HLLZ	11, (15)	
001020	241540.000007	10	00605		ROT	11, 7	
001021	270540.001027	11	00606		ADD	11, XEQEK	
001022	265600.006532	11	00607		JSP	12, 0B	
001023	265600.006354	11	00608		JSP	12, P1A	
001024	265600.006367	11	00609		JSP	12, P2	
001025	200600.000000	10	00610		MOVE	12, LOC	
001026	254014.000000	10	00611		J	(12)	
			00612				
001027	060600.001030	11	00613	XEQEK	BYP	6, *+1, 6	
001030	678257.564700	10	00614		EXP	.6/WRONG /	'0
001031	515660.656400	10	00615		EXP	.6/INPUT /	'1
001032	555744.451256	10	00616		EXP	.6/MODE*N/	'2
001033	570051.566065	10	00617		EXP	.6/O INPU/	'3
001034	641256.415545	10	00618		EXP	.6/T*NAME/	'4
001035	044241.440046	10	00619		EXP	.6/\$BAD F/	'5
001036	515445.125657	10	00620		EXP	.6/ILE*NO/	'6
001037	004357.624512	10	00621		EXP	.6/ CORE*/	'7
001040	424144.006371	10	00622		EXP	.6/BAD SY/	'8
001041	636445.550046	10	00623		EXP	.6/STEM F/	'9
001042	515445.126044	10	00624		EXP	.6/ILE*PD/	'10
001043	540064.575700	10	00625		EXP	.6/L TOO /	'11
001044	635541.545412	10	00626		EXP	.6/SMALL*/	'12
001045	655644.454651	10	00627		EXP	.6/UNDEF1/	'13
001046	564544.004570	10	00628		EXP	.6/NED EX/	'14
001047	640763.120000	10	00629		EXP	.6/T'S* /	'15
			00630				
001050	001700.001016	11	00631	XEQE1	EXP	00B6+30B12+XEQE	'WRONG INPUT MODE
001051	010000.001016	11	00632	XEQE2	EXP	02B6+00B12+XEQE	'NO INPUT
001052	021100.001016	11	00633	XEQE3	EXP	04B6+18B12+XEQE	'NAME
001053	025400.001016	11	00634	XEQE4	EXP	05B6+24B12+XEQE	'BAD FILE
001054	030300.001016	11	00635	XEQE5	EXP	06B6+06B12+XEQE	'NO CORE
001055	041700.001016	11	00636	XEQE6	EXP	08B6+30B12+XEQE	'BAD SYSTEM FILE
001056	050300.001016	11	00637	XEQE7	EXP	10B6+06B12+XEQE	'PDL TOO SMALL
001057	065700.001016	11	00638	XEQE8	EXP	13B6+30B12+XEQE	'UNDEFINED EXT'S

			00639	SKP			
001060	336010	000006	10	00640	LIBF	SKIPN	IBC+2(8)
001061	254000	001146	11	00641		J	LIBIE
001062	265600	006565	11	00642		JSP	12, 1B
001063	270340	001170	11	00643	LIBSIX	ADD	7, LIBT
001064	201160	001156	11	00644		MOVEI*	3, LIBCS
001065	201043	777775	10	00645		MOVEI	1, -3(3)
001066	202043	000000	10	00646		MOVEM	1, (3)
001067	514506	777776	10	00647		HRLZ	10, -2(6)
				00648			
001070	627500	400000	10	00649	LIBC	TLZN	10, 1B18
001071	271500	001000	10	00650		ADDI	10, 1B26
001072	260340	003121	11	00651		PUSHJ	7, CHAYN
001073	325506	000000	10	00652		JUMPGE	10, (6)
				00653			
001074	607540	000100	10	00654	LIBX	TLNN	11, =0100
001075	254000	001134	11	00655		J	LIBXIT
001076	606500	777777	10	00656		TRNN	10, -1
001077	254000	001123	11	00657		J	LIBER1
001100	265600	006532	11	00658		JSP	12, 0B
001101	201740	000100	10	00659		MOVEI	15, =0100
001102	136740	000011	10	00660		IDPB	15, 9
001103	606500	777000	10	00661		TRNN	10, =0777000
001104	254000	001113	11	00662		J	LIBX1
001105	550700	000012	10	00663		HRRZ	14, 10
001106	242700	777767	10	00664		LSH	14, -9
001107	201740	000103	10	00665		MOVEI	15, .7/C/
001110	265600	001136	11	00666		JSP	12, LIBXS
001111	201740	000054	10	00667		MOVEI	15, .7//
001112	136740	000011	10	00668		IDPB	15, 9
001113	550700	000012	10	00669	LIBX1	HRRZ	14, 10
001114	405700	000777	10	00670		ANDI	14, =0777
001115	201740	000114	10	00671		MOVEI	15, .7/L/
001116	265600	001136	11	00672		JSP	12, LIBXS
001117	265600	006367	11	00673		JSP	12, P2
001120	265600	006541	11	00674		JSP	12, 0F
				00675			
001121	607540	000100	10	00676	LIBER	TLNN	11, =0100
001122	254000	001134	11	00677		J	LIBXIT
001123	265600	006532	11	00678	LIBER1	JSP	12, 0B
001124	201700	000106	10	00679		MOVEI	14, 70
001125	134740	000001	10	00680		ILDB	15, 1
001126	306740	000027	10	00681		CAIN	15, =027
001127	254000	001132	11	00682		J	*+3
001130	136740	000011	10	00683		IDPB	15, 9
001131	367700	001125	11	00684		SOJG	14, *-4
001132	265600	006367	11	00685		JSP	12, P2
001133	265600	006541	11	00686		JSP	12, 0F
				00687			
001134	274340	001170	11	00688	LIBXIT	SUB	7, LIBT
001135	263340	000000	10	00689		POPJ	7,
				00690			
001136	136740	000011	10	00691	LIBXS	IDPB	15, 9
001137	231700	000012	10	00692		IDIVI	14, 10

001140	322700.	001143	11	00693	JUMPE	14,	*+3	
001141	271700.	000060	10	00694	ADDI	14,	48	
001142	136700.	000011	10	00695	IDPB	14,	9	
001143	271740.	000060	10	00696	ADDI	15,	48	
001144	136740.	000011	10	00697	IDPB	15,	9	
001145	254014.	000000	10	00698	J	(12)		
				00699				
001146	270340.	001170	11	00700	LIBIE	ADD	7,	LIBT
001147	661540.	000100	10	00701	TLO	11,	=0100	'SET 7-BIT ASCII INDICATOR
001150	200040.	001152	11	00702	MOVE	1,	*+2	
001151	254000.	001121	11	00703	J	LIBER		
001152	440700.	001153	11	00704	BYP	7,	*+1, 36	
001153	472364.	041620	10	00705	BYT	(.7)/NO	CHAIN	NAME=227 /
001154	406231.	620234	10					
001155	406330.	513500	10					
001156	254007.	777773	10	00706	LIBCS	J	-5(7)	
				00707				
001157	000000.	000010	10	00708	LIBTBL	EXP	LIBT-*	-1
001160	446364.	001540	11	00709	XW	.6/DST/,	DST	
001161	444554.	001423	11	00710	XW	.6/DEL/,	DEL	
001162	436244.	001172	11	00711	XW	.6/CRD/,	CRD	
001163	634564.	001247	11	00712	XW	.6/SET/,	SET	
001164	446560.	001264	11	00713	XW	.6/DUP/,	DUP	
001165	435056.	001435	11	00714	XW	.6/CHN/,	CHN	
001166	636264.	002515	11	00715	XW	.6/SRT/,	SRT	
001167	626364.	001467	11	00716	XW	.6/RST/,	RST	
001170	000011.	000011	10	00717	LIBT	9	9	
		001157	1	00718	LIBSCH	SYN	LIBTBL	

001171	000000	400600	10	00719	SKP		
001172	265300	001060	11	00720	EXP	1B18+BW+BC	
001173	201740	110002	10	00721	JSP	6, LIBF	CRD
001174	603540	000100	10	00722	MOVEI	15, 4B22+8B26+2	'SEC P, ACC ALL, LIFE M
001175	640740	000003	10	00723	TLNE	11, =0100	'SKIP IF 6-BIT ASCII
001176	260340	003026	11	00724	TRC	15, 3	'SET LIFE TO S
001177	603740	400000	10	00725	PUSHJ	7, LIBPRP	
001200	265760	002654	11	00726	TLNE	15, 1B18	
001201	200240	000017	10	00727	JSP*	15, LE2	
001202	405240	000007	10	00728	MOVE	5, 15	'SAVE
001203	405740	377000	10	00729	ANDI	5, 7	'LIFETIME
001204	435740	400000	10	00730	ANDI	15, =0377000	'SAVE SEC AND ACC
001205	306240	000002	10	00731	IORI	15, 1B18+FNCRD	
001206	254000	001227	11	00732	CAIN	5, 2	'SKIP IF LIFE IS NOT M
001207	603540	000100	10	00733	J	CRFD	
001210	302240	000001	10	00734	TLNE	11, =0100	'SKIP IF 6-BIT ASCII
001211	265760	002654	11	00735	CAIE	5, 1	'SKIP IF LIFE IS S
001212	254000	001227	11	00736	JSP*	15, LE2	
				00737	J	CRFD	
				00738			
001213	000000	400600	10	00739	EXP	1B18+BW+BC	
001214	265300	001060	11	00740	JSP	6, LIBF	CRF
001215	201740	110001	10	00741	MOVEI	15, 4B22+8B26+1	'SEC P, ACC ALL, LIFE S
001216	260340	003026	11	00742	PUSHJ	7, LIBPRP	
001217	603740	400000	10	00743	TLNE	15, 1B18	
001220	265760	002654	11	00744	JSP*	15, LE2	
001221	200240	000017	10	00745	MOVE	5, 15	'SAVE
001222	405240	000007	10	00746	ANDI	5, 7	'LIFETIME
001223	405740	377000	10	00747	ANDI	15, =0377000	'SAVE SEC AND ACC
001224	435740	400001	10	00748	IORI	15, 1B18+FNCRF	
001225	302240	000001	10	00749	CAIE	5, 1	'SKIP IF LIFE IS S
001226	265760	002654	11	00750	JSP*	15, LE2	
001227	506743	000000	10	00751	HRLM	15, (3)	CRFD
001230	201200	000000	10	00752	MOVEI	4, 0	
001231	250203	000003	10	00753	EXCH	4, 3(3)	'NO
001232	402003	000004	10	00754	Z	4(3)	'HEADING
001233	265440	002622	11	00755	JSP	9, LELF	'CREATE FILE/DIRECTORY IN .C
001234	254000	001074	11	00756	J	LIBX	'ELF ERROR
001235	202203	000003	10	00757	MOVEM	4, 3(3)	'RESTORE NAME
001236	302240	000002	10	00758	CAIE	5, 2	'SKIP IF LIFE IS M
001237	254000	001244	11	00759	J	CRF1	
001240	201040	000040	10	00760	MOVEI	1, FNRDC	
001241	506043	000000	10	00761	HRLM	1, (3)	
001242	265440	002622	11	00762	JSP	9, LELF	
001243	254000	001074	11	00763	J	LIBX	'ELF ERROR
001244	265240	001403	11	00764	JSP	5, SAVENT	CRF1
001245	254000	001134	11	00765	J	LIBXIT	
				00766			
001246	000000	000620	10	00767	EXP	BU+BW+BC	
001247	265300	001060	11	00768	JSP	6, LIBF	SET
001250	200203	000002	10	00769	MOVE	4, 2(3)	'SAVE
001251	200243	000003	10	00770	MOVE	5, 3(3)	'NAME
001252	334300	001253	11	00771	SKIPA	6, *+1	
001253	000607	001257	11	00772	XW	BAL+BLL+BRF+BW+BC, SET1	

001254	500300	000012	10	00773	HLL	6, 10	'SAVE 1ST ARG FLAGS
001255	500500	001253	11	00774	HLL	10, *-2	
001256	254000	001070	11	00775	J	LIBC	
001257	500500	000006	10	00776	SET1	HLL	'RESTORE 1ST ARG FLAGS
001260	202203	000002	10	00777	MOVEM	10, 6	'STORE
001261	202243	000003	10	00778	MOVEM	4, 2(3)	'NAME
001262	254000	001275	11	00779	J	5, 3(3)	DUPS
				00780			
001263	000000	000601	10	00781	EXP	BAL+BW+BC	
001264	265300	001060	11	00782	DUP	JSP	'1ST ARG INTO .Q
001265	505500	000624	10	00783	HRLI	6, LIBF	
001266	265300	001070	11	00784	JSP	10, BRFB+BU+BW+BC	
001267	200103	000001	10	00785	MOVE	6, LIBC	
001270	505100	777774	10	00786	HRLI	2, 1(3)	
001271	200042	000000	10	00787	MOVE	2, -4	
001272	250042	000004	10	00788	EXCH	1, (2)	
001273	202042	000000	10	00789	MOVEM	1, 4(2)	'SWAP .Q AND .C
001274	253100	001271	11	00790	AOBJN	1, (2)	
001275	201740	000000	10	00791	DUPS	2, *-3	
001276	260340	003026	11	00792	MOVEI	15, 0	
001277	607740	600000	10	00793	PUSHJ	7, LIBPRP	
001300	602740	000400	10	00794	TLNN	15, 3B19	'SKIP IF ERROR OR LIFETIME
001301	265760	002655	11	00795	TRNE	15, 1B27	'SKIP IF NO SECURITY LEVEL
001302	606740	000200	10	00796	JSP*	15, LE3	
001303	254000	001313	11	00797	TRNN	15, 1B28	'SKIP IF ACCESS
001304	200303	000001	10	00798	J	DUP1	
001305	204046	000000	10	00799	MOVE	6, 1(3)	'POINT TO CAPABILITY
001306	434040	000017	10	00800	MOVS	1, (6)	'PICK UP SOURCE PROERTIES
001307	242040	777767	10	00801	IOR	1, 15	
001310	405040	000007	10	00802	LSH	1, -9	
001311	204741	003501	11	00803	ANDI	1, 7	
001312	137740	001315	11	00804	MOVS	15, CHSLT(1)	
001313	265240	001403	11	00805	DPB	15, ACSBP	
001314	254000	001134	11	00806	JSP	5, SAVENT	
001315	330406	000000	10	00807	J	LIBXIT	
				00808	ACSBP	BYP	4, (6), 27
				00809			
001316	000000	400603	10	00809	EXP	1B18+BAL+BLL+BW+BC	
001317	265300	001060	11	00810	DPR	JSP	'SKIP IF NO SECURITY LEVEL
001320	201740	000000	10	00811	JSP	6, LIBF	
001321	260340	003026	11	00812	MOVEI	15, 0	
001322	607740	600000	10	00813	PUSHJ	7, LIBPRP	
001323	602740	000400	10	00814	TLNN	15, 3B19	'SKIP IF ERROR OR LIFETIME
001324	265760	002654	11	00815	TRNE	15, 1B27	'SKIP IF NO SECURITY LEVEL
001325	201200	000000	10	00816	JSP*	15, LE2	
001326	201240	000000	10	00817	MOVEI	4, 0	
001327	250203	000002	10	00818	MOVEI	5, 0	
001330	250243	000003	10	00819	EXCH	4, 2(3)	'SAVE
001331	402003	000004	10	00820	EXCH	5, 3(3)	'NAME
001332	200303	000001	10	00821	Z	4(3)	
001333	626740	000200	10	00822	MOVE	6, 1(3)	'POINT TO CAPABILITY
001334	254000	001344	11	00823	TRZN	15, 1B28	'SKIP IF ACCESS
001335	204046	000000	10	00824	J	DPR1	
001336	405040	360000	10	00825	MOVS	1, (6)	
001337	434040	000017	10	00826	ANDI	1, =0360000	'SAVE SECURITY LEVEL
					IOR	1, 15	

001340	435040.	400004	10	00827	IORI	1,	1B18+FNWH	
001341	506043.	000000	10	00828	HRLM	1,	(3)	
001342	265440.	002622	11	00829	JSP	9,	LELF	
001343	254000.	001074	11	00830	J			
001344	205040.	200000	10	00831	MOVSI	1,	1B19	'ELF ERROR
001345	202043.	000003	10	00832	MOVEM	1,	3(3)	
001346	201043.	000005	10	00833	MOVEI	1,	5(3)	'HEADING
001347	202043.	000002	10	00834	MOVEM	1,	2(3)	'CORE ADDRESS
001350	201040.	000005	10	00835	MOVEI	1,	FNRH	
001351	506043.	000000	10	00836	HRLM	1,	(3)	
001352	265440.	002622	11	00837	JSP	9,	LELF	
001353	254000.	001074	11	00838	J			
001354	265600.	006532	11	00839	JSP	12,	OB	'ELF ERROR
001355	200746.	000000	10	00840	MOVE	15,	(6)	'PICK UP CAPABILITY PROPERTIES
001356	201700.	000040	10	00841	MOVEI	14,	.7/ /	
001357	136700.	000011	10	00842	IDPB	14,	9	
001360	201700.	000050	10	00843	MOVEI	14,	.7/(/	
001361	265600.	002224	11	00844	JSP	12,	LSTSO	
001362	201040.	000051	10	00845	MOVEI	1,	.7)/(/	
001363	137040.	000011	10	00846	DPB	1,	9	
001364	200743.	000005	10	00847	MOVE	15,	5(3)	'PICK UP FILE PROPERTIES
001365	265600.	002224	11	00848	JSP	12,	LSTSO	
001366	265600.	006367	11	00849	JSP	12,	P2	
001367	265600.	006541	11	00850	JSP	12,	OF	
001370	254000.	001134	11	00851	J			
				00852				
001371	607500.	000300	10	00853	MOVE	TLNN	10, BR+BW	'SKIP IF FILE GOES TO .R OR .W
001372	254005.	000000	10	00854	J		(5)	
001373	204040.	000010	10	00855	MOVS	1,	8	
001374	201101.	000162	10	00856	MOVEI	2,	CAPW(1)	
001375	607500.	000200	10	00857	TLNN	10,	BW	
001376	201101.	000156	10	00858	MOVEI	2,	CAPR(1)	
001377	505101.	000166	10	00859	HRLI	2,	CAPC(1)	
001400	200040.	000002	10	00860	MOVE	1,	2	
001401	251101.	000003	10	00861	BLT	2,	3(1)	'MOVE .C TO .R OR .W
001402	254005.	000000	10	00862	J		(5)	
				00863				
001403	603500.	000600	10	00864	SAVENT	TLNE	10, BW+BC	'SKIP IF REF DIR
001404	254000.	001371	11	00865	J			
001405	201040.	000015	10	00866	MOVEI	1,	FNEOX	
001406	506043.	000000	10	00867	HRLM	1,	(3)	
001407	265440.	002622	11	00868	JSP	9,	LELF	'ENTER FILE IN REF DIR
001410	254000.	001412	11	00869	J		+2	'ELF ERROR
001411	254005.	000000	10	00870	J		(5)	
001412	204740.	000012	10	00871	MOVS	15,	10	
001413	405740.	377777	10	00872	ANDI	15,	=0377777	
001414	302740.	000022	10	00873	CAIE	15,	EOXER	
001415	254000.	001074	11	00874	J			
001416	505500.	400022	10	00875	HRLI	10,	1B18+EOXER	
001417	201040.	000022	10	00876	MOVEI	1,	EOXER	
001420	200041.	024000	1F	00877	MOVE	1,	ELFEBP(1)	
001421	254000.	001074	11	00878	J			
				00879				
001422	000000.	000020	10	00880	EXP		BU	

001423	265300.	001060	11	00881	DEL	JSP	6, LIBF	
001424	603500.	000010	10	00882		TLNE	10, BNN	
001425	254000.	001134	11	00883		J	LIBXIT	
001426	201040.	000012	10	00884		MOVEI	1, FNDEL	
001427	506043.	000000	10	00885		HRLM	1, (3)	
001430	265440.	002622	11	00886		JSP	9, LELF	
001431	254000.	001074	11	00887		J	LIBX	
001432	505500.	000010	10	00888		HRLI	10, BNN	'ELF ERROR
001433	254000.	001070	11	00889		J	LIBC	
001434	000000.	400020	10	00890				
001435	265300.	001060	11	00891		EXP	1B18+BU	
001436	135000.	000013	10	00892	CHN	JSP	6, LIBF	
001437	201640.	000000	10	00893		LDB	0, 11	
001440	201700.	000000	10	00894		MOVEI	13, 0	
001441	201740.	000074	10	00895		MOVEI	14, 0	
001442	265600.	002640	11	00896		MOVEI	15, 60	
001443	254000.	001453	11	00897		JSP	12, LIBCH	
001444	306000.	000032	10	00898		J	CHN1	
001445	265760.	002654	11	00899		CAIN	0, =032	'END
001446	322000.	001453	11	00900		JSP*	15, LE2	'SKIP IF NOT COLON
001447	246640.	000006	10	00901		JUMPE	0, CHN1	
001450	434700.	000000	10	00902		LSHC	13, 6	
001451	275740.	000006	10	00903		IOR	14, 0	
001452	254000.	002637	11	00904		SUBI	15, 6	
001453	331000.	000017	10	00905		J	LIBCH-1	
001454	301740.	000074	10	00906	CHN1	SKIPL	15	
001455	265760.	002654	11	00907		CAIL	15, 60	
001456	246657.	000014	10	00908		JSP*	15, LE2	
001457	250643.	000002	10	00909		LSHC	13, 12(15)	
001460	250703.	000003	10	00910		EXCH	13, 2(3)	
001461	202643.	000004	10	00911		EXCH	14, 3(3)	
001462	202703.	000005	10	00912		MOVEM	13, 4(3)	
001463	201040.	000014	10	00913		MOVEM	14, 5(3)	
001464	265240.	001406	11	00914		MOVEI	1, FNCHN	
001465	254000.	001134	11	00915		JSP	5, SAVEX	
				00916		J	LIBXIT	
001466	000000.	400020	10	00917				
001467	265300.	001060	11	00918		EXP	1B18+BU	
001470	201040.	000017	10	00919	RST	JSP	6, LIBF	
001471	265240.	001406	11	00920		MOVEI	1, FNRST	
001472	254000.	001134	11	00921		JSP	5, SAVEX	
				00922		J	LIBXIT	
001473	000000.	401021	10	00923				
001474	265300.	001060	11	00924		EXP	1B18+BAL+BU+BUR	
001475	607500.	001000	10	00925	ROOT	JSP	6, LIBF	
001476	265760.	002660	11	00926		TLNN	10, BUR	
001477	204040.	000010	10	00927		JSP*	15, LE6	
001500	200103.	000001	10	00928		MOVS	1, 8	
001501	541101.	000156	10	00929		MOVE	2, 1(3)	
001502	206103.	000001	10	00930		HRLI	2, CAPR(1)	
001503	205040.	166700	10	00931		MOVSM	2, 1(3)	
001504	202043.	000002	10	00932		MOVSI	1, .6/W /	
001505	402003.	000003	10	00933		MOVEM	1, 2(3)	
				00934		Z	3(3)	

001506	201040	000015	10	00935	MOVEI	1, FNEOX
001507	506043	000000	10	00936	HRLM	1, (3)
001510	265440	002622	11	00937	JSP	9, LELF
001511	254000	001121	11	00938	J	LIBER
001512	254000	001134	11	00939	J	LIBXIT
				00940		
001513	000000	000607	10	00941	EXP	BAL+BLL+BRF+BW+BC
001514	265300	001060	11	00942	JSP	6, LIBF
001515	603500	000010	10	00943	TLNE	10, BNN
001516	254000	001134	11	00944	J	LIBXIT
001517	201040	000007	10	00945	MOVEI	1, FNEDK
001520	506043	000000	10	00946	HRLM	1, (3)
001521	265440	002622	11	00947	JSP	9, LELF
001522	254000	001074	11	00948	J	LIBX 'ELF ERROR
001523	505500	000617	10	00949	HRLI	10, BAL+BLL+BRF+BW+BC+BNN
001524	254000	001070	11	00950	J	LIBC
				00951		
001525	000000	000607	10	00952	EXP	BAL+BLL+BRF+BW+BC
001526	265300	001060	11	00953	JSP	6, LIBF
001527	603500	000010	10	00954	TLNE	10, BNN
001530	254000	001134	11	00955	J	LIBXIT
001531	201040	000032	10	00956	MOVEI	1, FNBDK
001532	506043	000000	10	00957	HRLM	1, (3)
001533	265440	002622	11	00958	JSP	9, LELF
001534	254000	001074	11	00959	J	LIBX 'ELF ERROR
001535	505500	000617	10	00960	HRLI	10, BAL+BLL+BRF+BW+BC+BNN
001536	254000	001070	11	00961	J	LIBC
				00962		
001537	000000	000603	10	00963	EXP	BAL+BLL+BW+BC
001540	265300	001060	11	00964	JSP	6, LIBF
001541	603500	000010	10	00965	TLNE	10, BNN
001542	254000	001134	11	00966	J	LIBXIT
001543	201040	000044	10	00967	MOVEI	1, FNDST
001544	506043	000000	10	00968	HRLM	1, (3)
001545	265440	002622	11	00969	JSP	9, LELF
001546	254000	001074	11	00970	J	LIBX 'ELF ERROR
001547	603500	000600	10	00971	TLNE	10, BW+BC
001550	254000	001555	11	00972	J	DST1
001551	201040	000012	10	00973	MOVEI	1, FNDEL
001552	506043	000000	10	00974	HRLM	1, (3)
001553	265440	002622	11	00975	JSP	9, LELF
001554	254000	001074	11	00976	J	LIBX 'ELF ERROR
001555	505500	000613	10	00977	HRLI	10, BAL+BLL+BW+BC+BNN
001556	254000	001070	11	00978	J	LIBC
				00979		
001557	000000	000703	10	00980	EXP	BAL+BLL+BR+BW+BC
001560	265300	001060	11	00981	JSP	6, LIBF
001561	603500	000010	10	00982	TLNE	10, BNN
001562	254000	001134	11	00983	J	LIBXIT
001563	200043	000001	10	00984	MOVE	1, 1(3)
001564	200201	000000	10	00985	MOVE	4, (1) 'SAVE 1ST WORD OF CAPABILITY
001565	201040	000040	10	00986	MOVEI	1, FNRDC
001566	506043	000000	10	00987	HRLM	1, (3)
001567	265440	002622	11	00988	JSP	9, LELF

001570	254000	001074	11	00989	J	LIBX	'ELF ERROR
001571	265240	001371	11	00990	JSP	5, MOVE	
001572	607200	000002	10	00991	TLNN	4, 2	'SKIP IF FILE WAS NOT A DISK FILE
001573	603500	000700	10	00992	TLNE	10, BR+BW+BC	
001574	254000	001601	11	00993	J	PRM1	
001575	201040	000011	10	00994	MOVEI	1, FNREP	
001576	506043	000000	10	00995	HRLM	1, (3)	
001577	265440	002622	11	00996	JSP	9, LEF	
001600	254000	001074	11	00997	J	LIBX	'ELF ERROR
001601	505500	000713	10	00998	HRLI	10, BAL+BLL+BR+BW+BC+BNN	
001602	254000	001070	11	00999	J	LIBC	
				01000			
001603	000000	400603	10	01001	EXP	1B18+BAL+BLL+BW+BC	
001604	265300	001060	11	01002	JSP	6, LIBF	
001605	200203	000002	10	01003	MOVE	4, 2(3)	'SAVE
001606	200243	000003	10	01004	MOVE	5, 3(3)	'NAME
001607	135000	000013	10	01005	LDB	0, 11	
001610	334740	001611	11	01006	SKIPA	15, *+1	
001611	202020	202020	10	01007	EXP	.6/000000/	
001612	201700	000001	10	01008	MOVEI	14, 1	
001613	265600	002640	11	01009	JSP	12, LIBCH	
001614	265760	002654	11	01010	JSP*	15, LE2	
001615	200040	000000	10	01011	MOVE	1, 0	
001616	306040	000015	10	01012	CAIN	1, .6/-/	
001617	254000	001630	11	01013	J	PRL1A	
001620	301000	000020	10	01014	CAIL	0, .6/0/	'ELF ERROR
001621	303000	000031	10	01015	CAILE	0, .6/9/	
001622	254000	001633	11	01016	J	PRL2	
001623	335000	000001	10	01017	SKIPGE	1	'SKIP IF TREATING USER NO.
001624	275000	000020	10	01018	SUBI	0, 16	
001625	242740	000006	10	01019	LSH	15, 6	'SKIP IF MASS STORE RESIDENCY
001626	434740	000000	10	01020	IOR	15, 0	
001627	350000	000016	10	01021	AOS	14	'PICK UP ERROR NO.
001630	265600	002637	11	01022	JSP	12, LIBCH-1	
001631	254000	001633	11	01023	J	PRL2	
001632	254000	001620	11	01024	J	PRL1	'END
001633	321040	001653	11	01025	JUMPL	1, PRL3	'JUMP IF TREATING TYPE
001634	302040	000015	10	01026	CAIE	1, .6/-/	
001635	374000	000016	10	01027	SOSA	14	
001636	641740	350000	10	01028	TLC	15, =0350000	'CHANGE 0 TO -
001637	303700	000001	10	01029	CAILE	14, 1	
001640	303700	000006	10	01030	CAILE	14, 6	
001641	265760	002654	11	01031	JSP*	15, LE2	
001642	202743	000002	10	01032	MOVEM	15, 2(3)	'STORE ASCII USER NO.
001643	201740	000000	10	01033	MOVEI	15, 0	
001644	201700	000000	10	01034	MOVEI	14, 0	
001645	205040	777777	10	01035	MOVSI	1, -1	
001646	302000	000000	10	01036	CAIE	0, .6/ /	
001647	254000	001620	11	01037	J	PRL1	
001650	265600	002637	11	01038	JSP	12, LIBCH-1	
001651	254000	001653	11	01039	J	*+2	'END
001652	254000	001646	11	01040	J	*-4	
001653	307700	000001	10	01041	CAIG	14, 1	
001654	303740	000003	10	01042	CAILE	15, 3	

001655	265760	.002655	11	01043	JSP*	15, LE3	
001656	202743	.000003	10	01044	MOVEM	15, 3(3)	'STORE TYPE NO.
001657	201040	.000041	10	01045	MOVEI	1, FN RMS	
001660	506043	.000000	10	01046	HRLM	1, (3)	
001661	265440	.002622	11	01047	JSP	9, LELF	
001662	254000	.001121	11	01048	J	LIBER	'ELF ERROR
001663	603500	.000600	10	01049	TLNE	10, BW+BC	
001664	254000	.001674	11	01050	J	PRL4	
001665	201040	.000011	10	01051	MOVEI	1, FN REP	
001666	506043	.000000	10	01052	HRLM	1, (3)	
001667	202203	.000002	10	01053	MOVEM	4, 2(3)	'STORE
001670	202243	.000003	10	01054	MOVEM	5, 3(3)	'NAME
001671	265440	.002622	11	01055	JSP	9, LELF	
001672	254000	.001121	11	01056	J	LIBER	'ELF ERROR
001673	254000	.001134	11	01057	J	LIBXIT	
001674	265240	.001371	11	01058	JSP	5, MOVE	PRL4
001675	254000	.001134	11	01059	J	LIBXIT	
				01060			
001676	000000	.400707	10	01061	EXP	1B18+BAL+BLL+BRF+BR+BW+BC	
001677	265300	.001060	11	01062	JSP	6, LIBF	HOW
001700	265600	.006601	11	01063	JSP	12, IF	
001701	661540	.000100	10	01064	TLO	11, =0100	'SET 7-BIT ASCII INDICATOR
001702	201040	.000045	10	01065	MOVEI	1, FN HOW	
001703	506043	.000000	10	01066	HRLM	1, (3)	
001704	265440	.002622	11	01067	JSP	9, LELF	
001705	254000	.001121	11	01068	J	LIBER	'ELF ERROR
001706	265600	.006532	11	01069	JSP	12, OB	
001707	200043	.000001	10	01070	MOVE	1, 1(3)	'POINT TO CAPABILITY
001710	200041	.000000	10	01071	MOVE	1, (1)	
001711	603040	.000001	10	01072	TLNE	1, 1	'SKIP IF DATA CELL RESIDENT
001712	607040	.000002	10	01073	TLNN	1, 2	'SKIP IF MASS STORE RESIDENT
001713	254000	.002026	11	01074	J	HOW1	
001714	550040	.000002	10	01075	HRRZ	1, 2	'PICK UP ERROR NO.
001715	303040	.000011	10	01076	CAILE	1, 9	
001716	201040	.000012	10	01077	MOVEI	1, 10	
001717	200541	.001737	11	01078	MOVE	11, HOWK(1)	
001720	265600	.006353	11	01079	JSP	12, P1	
001721	307040	.000004	10	01080	CAIG	1, 4	
001722	607100	.777777	10	01081	TLNN	2, -1	
001723	326100	.001734	11	01082	JUMPN	2, HOWE	
001724	201740	.000040	10	01083	MOVEI	15, .77 /	
001725	136740	.000011	10	01084	IDPB	15, 9	
001726	554640	.000002	10	01085	HLRZ	13, 2	'PICK UP COUNT
001727	265600	.006456	11	01086	JSP	12, P8	
001730	201540	.002016	11	01087	MOVEI	11, HOWK1	
001731	332000	.000001	10	01088	SKIPE	1	
001732	201540	.002020	11	01089	MOVEI	11, HOWK2	
001733	265600	.006353	11	01090	JSP	12, P1	
001734	265600	.006367	11	01091	JSP	12, P2	HOWE
001735	265600	.006541	11	01092	JSP	12, OF	
001736	254000	.001134	11	01093	J	LIBXIT	
001737	000000	.001752	11	01094	XW	HOWM0	HOWK
001740	000000	.001754	11	01095	XW	HOWM1	
001741	000000	.001760	11	01096	XW	HOWM2	

001742	000000	001763	11	01097	
001743	000000	001765	11	01098	XW
001744	000000	001771	11	01099	HOWM3
001745	000000	001776	11	01100	HOWM4
001746	000000	002000	11	01101	HOWM5
001747	000000	002004	11	01102	HOWM6
001750	000000	002010	11	01103	HOWM7
001751	000000	002013	11	01104	HOWM8
001752	005756	005451	10	01105	HOWM9
001753	564516	120000	10	01105	HOWM10
001754	006741	516451	10		BYT (.6)/ ON LINE.*/ BYT (.6)/ WAITING FOR CHECK.*/ BYT (.6)/ DEVELOPING.*/ BYT (.6)/ RECORDING.*/ BYT (.6)/ QUEUED FOR RECORDING.*/ BYT (.6)/ FILE DAMAGED. RESUBMIT.*/ BYT (.6)/ ON SHELF.*/ BYT (.6)/ REQUESTED FROM SHELF.*/ BYT (.6)/ ON LINE TEMPORARILY.*/ BYT (.6)/ FILE ON TAPE.*/ BYT (.6)/ ELEPHANT ERROR.*/ BYT (.6)/ SECTIONS.*/ BYT (.6)/ RETRIES.*/ BYT (.6)/ EXPIRES *- NEVER.*/ MOVEI 11, HOWK3 JSP 12, P1
001755	564700	465762	10	01106	HOWM1
001756	004350	454353	10		
001757	161200	000000	10		
001760	004445	664554	10	01107	HOWM2
001761	576051	564716	10		
001762	120000	000000	10		
001763	006245	435762	10	01108	HOWM3
001764	445156	471612	10		
001765	006165	456545	10	01109	HOWM4
001766	440046	576200	10		
001767	624543	576244	10		
001770	515647	161200	10		
001771	004651	544500	10	01110	HOWM5
001772	444155	414745	10		
001773	441600	624563	10		
001774	654255	516416	10		
001775	120000	000000	10		
001776	005756	006350	10	01111	HOWM6
001777	455446	161200	10		
002000	006245	616545	10	01112	HOWM7
002001	636445	440046	10		
002002	625755	006350	10		
002003	455446	161200	10		
002004	005756	005451	10	01113	HOWM8
002005	564500	644555	10		
002006	605762	416251	10		
002007	547116	120000	10		
002010	004651	544500	10	01114	HOWM9
002011	575600	644160	10		
002012	451612	000000	10		
002013	004554	456050	10	01115	HOWM10
002014	415664	004562	10		
002015	625762	161200	10		
002016	006345	436451	10	01116	HOWK1
002017	575663	161200	10		
002020	006245	646251	10	01117	HOWK2
002021	456316	120000	10		
002022	004570	605162	10	01118	HOWK3
002023	456300	121500	10		
002024	564566	456216	10		
002025	120000	000000	10		
002026	201540	002022	11	01119	HOW1
002027	265600	006353	11	01120	

BYT (.6)/ ON LINE.*/
BYT (.6)/ WAITING FOR CHECK.*/
BYT (.6)/ DEVELOPING.*/
BYT (.6)/ RECORDING.*/
BYT (.6)/ QUEUED FOR RECORDING.*/
BYT (.6)/ FILE DAMAGED. RESUBMIT.*/
BYT (.6)/ ON SHELF.*/
BYT (.6)/ REQUESTED FROM SHELF.*/
BYT (.6)/ ON LINE TEMPORARILY.*/
BYT (.6)/ FILE ON TAPE.*/
BYT (.6)/ ELEPHANT ERROR.*/
BYT (.6)/ SECTIONS.*/
BYT (.6)/ RETRIES.*/
BYT (.6)/ EXPIRES *- NEVER.*/
MOVEI 11, HOWK3
JSP 12, P1

BYT (.6)/ ON LINE TEMPORARILY.*/
BYT (.6)/ FILE ON TAPE.*/
BYT (.6)/ ELEPHANT ERROR.*/
BYT (.6)/ SECTIONS.*/
BYT (.6)/ RETRIES.*/
BYT (.6)/ EXPIRES *- NEVER.*/
MOVEI 11, HOWK3
JSP 12, P1

002030	607040.	000100	10	01121	TLNN	1, =0100	'SKIP IF DIRECTORY
002031	254000.	002034	11	01122	J	*+3	
002032	265600.	006354	11	01123	JSP	12, P1A	
002033	254000.	001734	11	01124	J	HOWE	
002034	265600.	070000	1F	01125	JSP	12, 00CVIT	
002035	201740.	000057	10	01126	MOVEI	15, .7\$/	
002036	201040.	000005	10	01127	MOVEI	1, 5	
002037	201640.	000000	10	01128	MOVEI	13, 0	HOW2
002040	246640.	000006	10	01129	LSHC	13, 6	
002041	602040.	000001	10	01130	TRNE	1, 1	
002042	322640.	002050	11	01131	JUMPE	13, HOW3	
002043	435640.	000060	10	01132	IORI	13, 48	
002044	136640.	000011	10	01133	IDPB	13, 9	
002045	322040.	001734	11	01134	JUMPE	1, HOWE	
002046	606040.	000001	10	01135	TRNN	1, 1	
002047	136740.	000011	10	01136	IDPB	15, 9	
002050	364040.	002037	11	01137	SOJA	1, HOW2	HOW3
				01138			
002051	000000.	401707	10	01139	EXP	1B18+BAL+BLL+BRF+BR+BW+BC+BUR	
002052	265300.	001060	11	01140	JSP	6, LIBF	LST
002053	135000.	000013	10	01141	LDB	0, 11	
002054	205240.	400000	10	01142	MOVSI	5, =0400000	
002055	201300.	000000	10	01143	MOVEI	6, 0	
002056	201040.	000005	10	01144	MOVEI	1, 5	'POINT TO X5
002057	505040.	440600	10	01145	HRLI	1, =0440600	
002060	302000.	000040	10	01146	CAIE	0, .7/ /	
002061	254000.	002064	11	01147	J	*+3	
002062	134000.	000013	10	01148	ILDB	0, 11	
002063	254000.	002060	11	01149	J	*-3	
002064	307000.	000040	10	01150	CAIG	0, =040	'SKIP IF NOT A CONTROL CHAR
002065	254000.	002076	11	01151	J	LST1B	
002066	275000.	000040	10	01152	SUBI	0, 32	
002067	603040.	770000	10	01153	TLNE	1, =0770000	'SKIP IF MORE THAN 6 CHARS
002070	136000.	000001	10	01154	IDPB	0, 1	
002071	134000.	000013	10	01155	ILDB	0, 11	
002072	302000.	000040	10	01156	CAIE	0, .7/ /	
002073	254000.	002064	11	01157	J	LST1A	
002074	602040.	000001	10	01158	TRNE	1, 1	'SKIP IF X1 POINTS TO X6
002075	344040.	002057	11	01159	AOJA	1, LST1	
002076	265600.	006577	11	01160	JSP	12, IFCB	LST1B
002077	661540.	000100	10	01161	TLO	11, =0100	'SET 7-BIT ASCII INDICATOR
002100	336000.	000006	10	01162	SKIPN	6	'SKIP IF UPPER BOUND
002101	525300.	377777	10	01163	HRL01	6, =0377777	
002102	201040.	000032	10	01164	MOVEI	1, FNBDK	
002103	506043.	000000	10	01165	HRLM	1, (3)	
002104	265440.	002622	11	01166	JSP	9, LELF	
002105	254000.	001121	11	01167	J	LIBER	'ELF ERROR
002106	201040.	000024	10	01168	MOVEI	1, FNLD	
002107	506043.	000000	10	01169	HRLM	1, (3)	
002110	207003.	000001	10	01170	MOVSS	1(3)	'PUT .C INTO J
002111	201700.	000200	10	01171	MOVEI	14, 128	
002112	505700.	002214	11	01172	HRLI	14, LSTK2	
002113	265640.	040000	1F	01173	JSP	13, 00CORQ	
002114	326700.	002120	11	01174	JUMPN	14, LST1C	'JUMP IF BFR ALLOCATED

002200	274340.	002213	11	01229	SUB	7, LSTK1	
002201	254000.	002204	11	01230	J	*+3	
002202	505700.	002214	11	01231	HRLI	14, LSTK2	
002203	265640.	044000	1F	01232	JSP	13, OCCORL	
002204	321500.	001121	11	01233	JUMPL	10, LIBER	'JUMP IF ELF ERROR
002205	200040.	002216	11	01234	MOVE	1, LSTK3	
002206	326300.	001121	11	01235	JUMPN	6, LIBER	'JUMP IF EMPTY LIST
002207	265600.	006532	11	01236	JSP	12, OB	
002210	201740.	000031	10	01237	MOVEI	15, =031	
002211	265600.	006542	11	01238	JSP	12, OFE	
002212	254000.	001134	11	01239	J	LIBXIT	
				01240			
002213	000013.	000013	10	01241	LSTK1	XW	11, 11
002214	545163.	640044	10	01242	LSTK2	EXP	.6/LIST D/, .6/IR BFR/
002215	516200.	424662	10				
002216	440700.	002217	11	01243	LSTK3	BYP	7, *+1, 36
002217	426332.	052262	10	01244	BYT		(.7)/EMPTY=241=227/
002220	204560.	000000	10				
002221	135700.	002245	11	01245	LSTS	LDB	14, LSTS1 'TYPE (DIRECTORY OR FILE)
002222	200716.	002251	11	01246	MOVE	14, LSTST(14)	
002223	242700.	777753	10	01247	LSH	14, -21	
002224	136700.	000011	10	01248	LSTSO	IDPB	14, 9
002225	135700.	002246	11	01249	LDB	14, LSTS2	'LIFETIME
002226	200716.	002251	11	01250	MOVE	14, LSTST(14)	
002227	242700.	777762	10	01251	LSH	14, -14	
002230	136700.	000011	10	01252	IDPB	14, 9	
002231	201700.	000056	10	01253	MOVEI	14, .7/./	
002232	136700.	000011	10	01254	IDPB	14, 9	
002233	135700.	002247	11	01255	LDB	14, LSTS3	'SECURITY LEVEL
002234	200716.	002251	11	01256	MOVE	14, LSTST(14)	
002235	242700.	777771	10	01257	LSH	14, -7	
002236	136700.	000011	10	01258	IDPB	14, 9	
002237	135700.	002250	11	01259	LDB	14, LSTS4	'ACCESS INHIBITED
002240	200716.	002251	11	01260	MOVE	14, LSTST(14)	
002241	136700.	000011	10	01261	IDPB	14, 9	
002242	201700.	000040	10	01262	MOVEI	14, .7/ /	
002243	136700.	000011	10	01263	IDPB	14, 9	
002244	254014.	000000	10	01264	J	(12)	
		002221	1	01265	LIBCAP	SYN	LSTS
002245	300300.	000017	10	01266	LSTS1	BYP	3, 15, 24
002246	220400.	000017	10	01267	LSTS2	BYP	4, 15, 18
002247	370400.	000017	10	01268	LSTS3	BYP	4, 15, 31
002250	330400.	000017	10	01269	LSTS4	BYP	4, 15, 27
002251	001305.	426070	10	01270	LSTST	EXP	.7/XXX8/ '0
002252	001045.	163461	10	01271	EXP	.7/DSN1/	'1
002253	001064.	665262	10	01272	EXP	.7/FMU2/	'2
002254	001304.	626070	10	01273	EXP	.7/XLX8/	'3
002255	001305.	224064	10	01274	EXP	.7/XTP4/	'4
002256	001304.	166070	10	01275	EXP	.7/XCX8/	'5
002257	001305.	426070	10	01276	EXP	.7/XXX8/	'6
002260	001305.	420267	10	01277	EXP	.7/XXA7/	'7
002261	001305.	420660	10	01278	EXP	.7/XXCO/	'8
002262	001305.	426070	10	01279	EXP	.7/XXX8/	'9
002263	001305.	426070	10	01280	EXP	.7/XXX8/	'10

002264	001305	424663	10	01281	EXP	7/XXS3/	'11
002265	001305	426070	10	01282	EXP	7/XXX8/	'12
002266	001305	425065	10	01283	EXP	7/XXT5/	'13
002267	001305	422666	10	01284	EXP	7/XXX6/	'14
002270	001305	426070	10	01285	EXP	7/XXX8/	'15
002271	000000	400607	10	01286			
002272	265300	001060	11	01287	EXP	1B18+BAL+BLL+BRF+BW+BC	
002273	260340	002714	11	01288	JSP	6, LIBF	
002274	332000	000016	10	01289	PUSHJ	7, LIBFMT	'GET FORMAT
002275	265760	002654	11	01290	SKIPE	14	'SKIP IF NO ERROR
002276	261340	000017	10	01291	JSP*	15, LE2	
002277	201040	000004	10	01292	PUSH	7, 15	'STORE FORMAT WORD
002300	506043	000000	10	01293	MOVEI	1, FNWH	
002301	202343	000002	10	01294	HRLM	1, (3)	
002302	205040	010000	10	01295	MOVEM	7, 2(3)	'STORE CORE FWA
002303	202043	000003	10	01296	MOVSI	1, 1B23	
002304	402003	000004	10	01297	MOVEM	1, 3(3)	'STORE
002305	265440	002622	11	01298	Z	4(3)	' MASK
002306	254000	002311	11	01299	JSP	9, LE1F	
002307	262340	000017	10	01300	J	x+3	'ELF ERROR
002310	254000	001134	11	01301	POP	7, 15	
002311	262340	000017	10	01302	J	LIBXIT	
002312	254000	001121	11	01303	POP	7, 15	
				01304	J	LIBER	
				01305			
002313	000000	400607	10	01306	EXP	1B18+BAL+BLL+BRF+BW+BC	
002314	265300	001060	11	01307	JSP	6, LIBF	
002315	135500	000013	10	01308	LDB	10, 11	
002316	302500	000012	10	01309	CAIE	10, .7/=L/	'SKIP IF LINE FEED
002317	265760	002654	11	01310	JSP*	15, LE2	
002320	201107	000001	10	01311	MOVEI	2, 1(7)	
002321	270340	002355	11	01312	ADD	7, WCK1	'8,8
002322	202103	000002	10	01313	MOVEM	2, 2(3)	'STORE CORE FWA
002323	505100	440600	10	01314	HRLI	2, =0440600	
002324	201040	000060	10	01315	MOVEI	1, 48	
002325	134500	000013	10	01316	ILDB	10, 11	
002326	275500	000040	10	01317	SUBI	10, 32	
002327	321500	002335	11	01318	JUMPL	10, WC2	'JUMP IF CONTROL CHAR
002330	301500	000100	10	01319	CAIL	10, =0100	
002331	254000	002353	11	01320	J	WC4	
002332	136500	000002	10	01321	IDPB	10, 2	
002333	367040	002325	11	01322	SOJG	1, WC1	
002334	254000	002340	11	01323	J	WC3	
002335	201500	000000	10	01324	MOVEI	10, 0	
002336	136500	000002	10	01325	IDPB	10, 2	
002337	367040	002336	11	01326	SOJG	1, *-1	
002340	201040	000004	10	01327	MOVEI	1, FNWH	
002341	506043	000000	10	01328	HRLM	1, (3)	
002342	201040	007760	10	01329	MOVEI	1, =0377B31	
002343	202043	000003	10	01330	MOVEM	1, 3(3)	'STORE
002344	402003	000004	10	01331	Z	4(3)	' MASK
002345	265440	002622	11	01332	JSP	9, LE1F	
002346	254000	002351	11	01333	J	x+3	'ELF ERROR
002347	274340	002355	11	01334	SUB	7, WCK1	

002350	254000	001134	11	01335	J	LIBXIT	
002351	274340	002355	11	01336	SUB	7, WCK1	
002352	254000	001121	11	01337	J	LIBER	
002353	274340	002355	11	01338	SUB	7, WCK1	WC4
002354	265760	002654	11	01339	JSP*	15, LE2	
002355	000010	000010	10	01340	XW	8, 8	WCK1
				01341			
002356	000000	400707	10	01342	EXP	1B18+BAL+BLL+BRF+BR+BW+BC	
002357	265300	001060	11	01343	JSP	6, LIBF	RH
002360	265600	006601	11	01344	JSP	12, IF	
002361	661540	000100	10	01345	TLO	11, =0100	'SET 7-BIT ASCII INDICATOR
002362	201040	000005	10	01346	MOVEI	1, FNRH	
002363	506043	000000	10	01347	HRLM	1, (3)	
002364	201307	000001	10	01348	MOVEI	6, 1(7)	
002365	202303	000002	10	01349	MOVEM	6, 2(3)	'CORE FWA
002366	205040	270000	10	01350	MOVSI	1, =027B23	'WORDS 1,3,4,5 OF HEADING
002367	541040	007400	10	01351	HRR1	1, =0360B31	
002370	202043	000003	10	01352	MOVEM	1, 3(3)	'STORE
002371	402003	000004	10	01353	Z	4(3)	' MASK
002372	270340	002513	11	01354	ADD	7, RHK1	'8, 8
002373	265440	002622	11	01355	JSP	9, LELF	'READ FILE HEADING
002374	254000	002511	11	01356	J	RH5	'ELF ERROR
002375	274340	002513	11	01357	SUB	7, RHK1	
002376	265600	006532	11	01358	JSP	12, OB	
002377	200746	000000	10	01359	MOVE	15, (6)	'PICK UP RESIDENCE WORD
002400	200200	000017	10	01360	MOVE	4, 15	
002401	265600	002221	11	01361	JSP	12, LSTS	'STACK ENTRY DESCRIPTION
002402	200746	000002	10	01362	MOVE	15, 2(6)	'PICK UP FILE SIZE OR ENTRY COUNT
002403	241740	777775	10	01363	ROT	15, -3	
002404	201640	000014	10	01364	MOVEI	13, 12	
002405	241740	000003	10	01365	ROT	15, 3	
002406	607740	700000	10	01366	TLNN	15, 7B20	
002407	367640	002405	11	01367	SOJG	13, *-2	
002410	201700	000006	10	01368	MOVEI	14, 6	
002411	246700	000003	10	01369	LSHC	14, 3	
002412	136700	000011	10	01370	IDPB	14, 9	
002413	367640	002410	11	01371	SOJG	13, *-3	
002414	200106	000001	10	01372	MOVE	2, 1(6)	'PICK UP CREATION TIME
002415	265600	070000	1F	01373	JSP	12, OOCVIT	
002416	201140	000040	10	01374	MOVEI	3, .7/ /	
002417	136140	000011	10	01375	IDPB	3, 9	
002420	136140	000011	10	01376	IDPB	3, 9	
002421	265600	074000	1F	01377	JSP	12, OOCVTA	'STACK TIME
002422	603200	000100	10	01378	TLNE	4, =0100	'SKIP IF ENTRY IS A FILE
002423	254000	002465	11	01379	J	RH2	
002424	136140	000011	10	01380	IDPB	3, 9	
002425	136140	000011	10	01381	IDPB	3, 9	
002426	201740	000124	10	01382	MOVEI	15, .7/T/	
002427	331106	000003	10	01383	SKIPL	2, 3(6)	'PICK UP FORMAT WORD
002430	201740	000116	10	01384	MOVEI	15, .7/N/	
002431	136740	000011	10	01385	IDPB	15, 9	
002432	136140	000011	10	01386	IDPB	3, 9	
002433	241100	000005	10	01387	ROT	2, 5	
002434	201040	000000	10	01388	MOVEI	1, 0	

002435	246040.000006	10	01389	LSHC	1, 6	
002436	307040.000002	10	01390	CAIG	1, 2	
002437	254000.002444	11	01391	J	RH1	
002440	301040.000006	10	01392	CAIL	1, 6	
002441	303040.000010	10	01393	CAILE	1, 8	
002442	624040.777777	10	01394	TRZA	1, -1	
002443	664040.020260	10	01395	TROA	1, 7/AO/	
002444	200041.003020	11	01396	MOVE	1, FORMT(1)	
002445	241040.777771	10	01397	ROT	1, -7	
002446	136040.000011	10	01398	IDPB	1, 9	
002447	241040.000007	10	01399	ROT	1, 7	
002450	136040.000011	10	01400	IDPB	1, 9	
002451	136140.000011	10	01401	IDPB	3, 9	
002452	201040.000127	10	01402	MOVEI	1, 7/W/	
002453	136040.000011	10	01403	IDPB	1, 9	
002454	201040.000000	10	01404	MOVEI	1, 0	
002455	246040.000007	10	01405	LSHC	1, 7	
002456	200740.000001	10	01406	MOVE	15, 1	
002457	265600.006403	11	01407	JSP	12, P4	'STACK WORD SIZE
002460	136140.000011	10	01408	IDPB	3, 9	
002461	201740.000122	10	01409	MOVEI	15, 7/R/	
002462	136740.000011	10	01410	IDPB	15, 9	
002463	204740.000002	10	01411	MOVS	15, 2	'STACK RECORD SIZE
002464	265600.006403	11	01412	JSP	12, P4	
002465	265600.006367	11	01413	JSP	12, P2	
002466	201106.000010	10	01414	MOVEI	2, 8(6)	
002467	201140.000003	10	01415	MOVEI	3, 3	
002470	370000.000002	10	01416	SOS	2	
002471	336002.000000	10	01417	SKIPN	(2)	
002472	365140.002470	11	01418	SOJGE	3, *-2	
002473	321140.002507	11	01419	JUMPL	3, RH4	'JUMP IF NO COMMENTS
002474	265600.006541	11	01420	JSP	12, OF	
002475	265600.006532	11	01421	JSP	12, OB	
002476	201106.000004	10	01422	MOVEI	2, 4(6)	
002477	505100.440600	10	01423	HRLI	2, =0440600	
002500	134040.000002	10	01424	ILDB	1, 2	
002501	271040.000040	10	01425	ADDI	1, 32	'STACK COMMENTS
002502	136040.000011	10	01426	IDPB	1, 9	
002503	607100.770000	10	01427	TLNN	2, 63B23	
002504	371000.000003	10	01428	SOSL	3	
002505	254000.002500	11	01429	J	RH3	
002506	265600.006367	11	01430	JSP	12, P2	
002507	265600.006541	11	01431	JSP	12, OF	
002510	254000.001134	11	01432	J	LIBXIT	
002511	274340.002513	11	01433	SUB	7, RHK1	
002512	254000.001121	11	01434	J	LIBER	
002513	000010.000010	10	01435	XW	8, 8	
002514	000000.000703	10	01437	EXP	BAL+BLL+BR+BW+BC	
002515	265300.001060	11	01438	JSP	6, LIBF	
002516	603500.000010	10	01439	TLNE	10, BNN	
002517	254000.001134	11	01440	J	LIBXIT	
002520	201040.000016	10	01441	MOVEI	1, FNSRT	
002521	506043.000000	10	01442	HRLM	1, (3)	

002522	207003	.000001	10	01443	MOVSS	1(3)		' .C INTO J
002523	265440	.002622	11	01444	JSP	9, LELF		
002524	254000	.001074	11	01445	J	LIBX		' ELF ERROR
002525	505500	.000713	10	01446	HRLI	10, BAL+BLL+BR+BW+BC+BNN		
002526	254000	.001070	11	01447	J	LIBC		
				01448				
002527	000000	.000601	10	01449	EXP	BAL+BW+BC		
002530	265300	.001060	11	01450	JSP	6, LIBF		' 1ST ARG INTO .Q
002531	505500	.000624	10	01451	HRLI	10, BRFB+BU+BW+BC		
002532	265300	.001070	11	01452	JSP	6, LIBC		
002533	200103	.000001	10	01453	MOVE	2, 1(3)		
002534	204240	.000002	10	01454	MOVS	5, 2		
002535	204245	.000000	10	01455	MOVS	5, (5)		' SAVE
002536	405240	.360000	10	01456	ANDI	5, =0360000		' SOURCE SECURITY LEVEL
002537	505100	.777774	10	01457	HRLI	2, -4		
002540	200042	.000000	10	01458	MOVE	1, (2)		
002541	250042	.000004	10	01459	EXCH	1, 4(2)		' SWAP .Q AND .C
002542	202042	.000000	10	01460	MOVEM	1, (2)		
002543	253100	.002540	11	01461	AOBJN	2, *-3		
002544	201740	.010001	10	01462	MOVEI	15, 8B26+1		' ACC ALL, LIFE S
002545	434740	.000005	10	01463	IOR	15, 5		' SOURCE SEC
002546	260340	.003026	11	01464	PUSHJ	7, LIBPRP		
002547	603740	.400000	10	01465	TLNE	15, 1B18		
002550	265760	.002655	11	01466	JSP*	15, LE3		
002551	303257	.000000	10	01467	CAILE	5, (15)		' SKIP IF SEC AT LEAST AS HIGH AS SOURCE
002552	265760	.002662	11	01468	JSP*	15, LE8		
002553	602740	.000006	10	01469	TRNE	15, 6		' SKIP IF LIFE IS S
002554	265760	.002655	11	01470	JSP*	15, LE3		
002555	405740	.377000	10	01471	ANDI	15, =0377000		
002556	435740	.400030	10	01472	IORI	15, 1B18+FNCOPY		
002557	506743	.000000	10	01473	HRLM	15, (3)		
002560	201200	.000000	10	01474	MOVEI	4, 0		
002561	200240	.000012	10	01475	MOVE	5, 10		
002562	135500	.000013	10	01476	LDB	10, 11		
002563	265600	.006214	11	01477	JSP	12, SO		
002564	254000	.002570	11	01478	J	CPY1		' END
002565	303700	.000007	10	01479	CAILE	14, 7		' NO
002566	265760	.002656	11	01480	JSP*	15, LE4		' NAME
002567	200200	.000015	10	01481	MOVE	4, 13		
002570	250203	.000002	10	01482	EXCH	4, 2(3)		' STORE SIZE, SAVE NAME
002571	510500	.000005	10	01483	HLLZ	10, 5		
002572	553003	.000001	10	01484	HRRZS	1(3)		' INDICATE DISK TO DISK
002573	265440	.002622	11	01485	JSP	9, LELF		' COPY .C
002574	254000	.001074	11	01486	J	LIBX		' ELF ERROR
002575	204040	.000010	10	01487	MOVS	1, 8		
002576	201101	.000172	10	01488	MOVEI	2, CAPQ(1)		
002577	506103	.000001	10	01489	HRLM	2, 1(3)		
002600	202203	.000002	10	01490	MOVEM	4, 2(3)		
002601	265240	.001403	11	01491	JSP	5, SAVENT		
002602	254000	.001134	11	01492	J	LIBXIT		
				01493				
002603	000000	.400707	10	01494	EXP	1B18+BAL+BLL+BRF+BR+BW+BC		
002604	265300	.001060	11	01495	JSP	6, LIBF		
002605	265600	.006601	11	01496	JSP	12, IF		

002606	200143.000001	10	01497		
002607	265600.006532	11	01498	MOVE	3, 1(3) 'POINT TO CAPABILITY
002610	200743.000000	10	01499	JSP	15, OB
002611	265600.002221	11	01500	MOVE	15, (3)
002612	200743.000000	10	01501	JSP	12, LSTS 'STACK FILE DESCRIPTION
002613	265600.006421	11	01502	MOVE	15, (3)
002614	200743.000001	10	01503	JSP	12, P5B 'STACK 1ST WORD OF CAPABILITY
002615	201700.000040	10	01504	MOVE	15, 1(3)
002616	265600.006420	11	01505	MOVEI	14, .7/ /
002617	265600.006367	11	01506	JSP	12, P5A 'STACK FILE PTR
002620	265600.006541	11	01507	JSP	12, P2
002621	254000.001134	11	01508	JSP	12, OF
			01509	J	LIBXIT
002622	200743.000000	10	01510		
002623	402017.000000	10	01511	LELF	MOVE 15, (3)
002624	260340.020000	1F	01512	Z	(15)
002625	200743.000000	10	01513	PUSHJ	7, ELEPH
002626	331017.000001	10	01514	MOVE	15, (3)
002627	254011.000001	10	01515	SKIPL	1(15) 'SKIP IF ERROR
002630	204057.000001	10	01516	J	1(9)
002631	620040.400000	10	01517	MOVS	1, 1(15)
002632	200041.024000	1F	01518	TRZ	1, 1B18
002633	603040.000040	10	01519	MOVE	1, ELFEBP(1)
002634	254011.000001	10	01520	TLNE	1, 1B30 'SKIP IF NOT EXCEPTIONAL ERROR
002635	500517.000001	10	01521	J	1(9)
002636	254011.000000	10	01522	HLL	10, 1(15) 'SAVE ERROR NO.
			01523	J	(9)
002637	134000.000013	10	01524		
002640	603540.000100	10	01525	LIBCH	ILDB 0, 11
002641	275000.000040	10	01526		TLNE 11, =0100 'SKIP IF 6-BIT
002642	607540.000100	10	01527	SUBI	0, 32
002643	302000.000040	10	01528	TLNN	11, =0100
002644	325014.000001	10	01529	CAIE	0, =040
002645	254014.000000	10	01530	JUMPGE	0, 1(12)
			01531	J	(12)
002646	200057.777777	10	01532	LIBE	MOVE 1, -1(15)
002647	510041.000000	10	01533		HLLZ 1, (1)
002650	241040.000007	10	01534		ROT 1, 7
002651	270040.002663	11	01535	ADD	1, LIBEK
002652	205500.777777	10	01536	MOVSI	10, -1 'ZERO CHAIN-LINK NO.
002653	254000.001121	11	01537	J	LIBER
002654	000000.002646	11	01538	LE2	EXP 00B6+LIBE
002655	010000.002646	11	01539	LE3	EXP 02B6+LIBE
002656	020000.002646	11	01540	LE4	EXP 04B6+LIBE
002657	030000.002646	11	01541	LE5	EXP 06B6+LIBE
002660	050000.002646	11	01542	LE6	EXP 10B6+LIBE
002661	060000.002646	11	01543	LE7	EXP 12B6+LIBE
002662	104000.002646	11	01544	LE8	EXP 17B6+LIBE
			01545		
002663	440700.002664	11	01546	LIBEK	BYP 7, *+1, 36
002664	406450.720144	10	01547		BYT (.7)/ARG 2=277=E/, (8)009
002665	374560.440000	10			
002666	406450.720146	10	01548		BYT (.7)/ARG 3=277=E/, (8)009
002667	374560.440000	10			

002670	406450.720150	10	01549	BYT (.7)/ARG 4=277=E/, (8)009
002671	374560.440000	10		
002672	446311.442616	10	01550	BYT (.7)/ILLEGAL CHAIN NAME=E/, (8)000
002673	406304.041620	10		
002674	406231.620234	10		
002675	406330.513400	10		
002676	526470.551176	10	01551	BYT (.7)/USER=277=E/, (8)000
002677	134000.000000	10		
002700	472372.420202	10	01552	BYT (.7)/NOT A MASS STORE FILE=E/, (8)000
002701	202330.151646	10		
002702	202472.447644	10		
002703	425010.644630	10		
002704	424560.000000	10		
002705	422130.346202	10	01553	BYT (.7)/DECLASSIFICATION NOT PERMITTED=E/, (8)000
002706	516471.143222	10		
002707	416032.444636	10		
002710	471011.647650	10		
002711	202410.551232	10		
002712	446512.442610	10		
002713	134000.000000	10		

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01554 SKP
01555 SUBROUTINE TO COLLECT FILE FORMAT FROM INPUT LINE
01556
01557 PUSHJ 7, LIBFMT INPUT BYP IN X11
01558 USES X11-X15
01559 EXITS WITH FORMAT WORD IN X15 (X14 IS 0) OR ERROR (X14 IS -1)
01560
002714 205740.401444 10 01561 LIBFMT MOVSI 15, =0401444 'T A6 W44 R0
002715 135640.000013 10 01562 LDB 13, 11
002716 265600.003005 11 01563 LIBFML JSP 12, LIBFMC
002717 254000.003002 11 01564 J LIBFMZ 'END
002720 302640.000124 10 01565 CAIE 13, .7/T/
002721 306640.000116 10 01566 CAIN 13, .7/N/
002722 254000.002746 11 01567 J LIBFM1
002723 302640.000127 10 01568 CAIE 13, .7/W/
002724 306640.000122 10 01569 CAIN 13, .7/R/
002725 254000.002752 11 01570 J LIBFM2
002726 200700.000015 10 01571 MOVE 14, 13
002727 265600.003004 11 01572 JSP 12, LIBFMC-1
002730 254000.002767 11 01573 J LIBFMX 'END
002731 242700.000007 10 01574 LSH 14, 7
002732 434700.000015 10 01575 IOR 14, 13
002733 201600.000005 10 01576 MOVEI 12, 5
002734 550654.003020 11 01577 HRRZ 13, FORMAT(12)
002735 312700.000015 10 01578 CAME 14, 13
002736 365600.002734 11 01579 SOJGE 12, *-2
002737 321600.002767 11 01580 JUMPL 12, LIBFMX
002740 621740.017600 10 01581 TLZ 15, =07B28 'CLEAR CHAR MODE FIELD
002741 510714.003020 11 01582 HLLZ 14, FORMAT(12)
002742 242700.000007 10 01583 LSH 14, 7
002743 434740.000016 10 01584 IOR 15, 14
002744 134640.000013 10 01585 ILDB 13, 11
002745 254000.002716 11 01586 J LIBFML
01587
002746 661740.400000 10 01588 LIBFM1 TLO 15, 1B18
002747 302640.000124 10 01589 CAIE 13, .7/T/
002750 621740.400000 10 01590 TLZ 15, 1B18
002751 254000.003004 11 01591 J LIBFMC-1
01592
002752 200600.000015 10 01593 LIBFM2 MOVE 12, 13
002753 201700.000000 10 01594 MOVEI 14, 0
002754 134640.000013 10 01595 LIBFM3 ILDB 13, 11
002755 607540.000100 10 01596 TLNN 11, =0100 'SKIP IF 7-BIT
002756 271640.000040 10 01597 ADDI 13, 32
002757 301640.000060 10 01598 CAIL 13, .7/O/
002760 303640.000067 10 01599 CAILE 13, .7/7/
002761 254000.002771 11 01600 J LIBFM4
002762 275640.000060 10 01601 SUBI 13, 48
002763 242700.000003 10 01602 LSH 14, 3
002764 434700.000015 10 01603 IOR 14, 13
002765 607700.777777 10 01604 TLNN 14, -1
002766 254000.002754 11 01605 J LIBFM3
002767 561700.777777 10 01606 LIBFMX HRRZI 14, -1
002770 263340.000000 10 01607 POPJ 7,

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002771	302600.000122	10	01608	LIBFM4	CAIE	12, .7/R/	
002772	254000.002775	11	01609		J	=+3	
002773	540740.000016	10	01610		HRR	15, 14	
002774	254000.002715	11	01611		J	LIBFML-1	
002775	303700.000177	10	01612		CAILE	14, =0177	
002776	254000.002767	11	01613		J	LIBFMX	
002777	621740.000177	10	01614		TLZ	15, =0177	'CLEAR WORD SIZE FIELD
003000	661756.000000	10	01615		TL0	15, (14)	
003001	254000.002715	11	01616		J	LIBFML-1	
			01617				
003002	201700.000000	10	01618	LIBFMZ	MOVEI	14, 0	
003003	263340.000000	10	01619		POPJ	7,	
			01620				
003004	134640.000013	10	01621		ILDB	13, 11	
003005	607540.000100	10	01622	LIBFMC	TLNN	11, =0100	'SKIP IF 7-BIT
003006	271640.000040	10	01623		ADDI	13, 32	
003007	306640.000040	10	01624		CAIN	13, .7/ /	
003010	254000.003004	11	01625		J	x-4	
003011	607540.000100	10	01626		TLNN	11, =0100	
003012	302640.000100	10	01627		CAIE	13, =0100	
003013	305640.000040	10	01628		CAIGE	13, =040	
003014	254014.000000	10	01629		J	(12)	'END EXIT
003015	302640.000047	10	01630		CAIE	13, .7/ /	
003016	254014.000001	10	01631		J	1(12)	
003017	254014.000000	10	01632		J	(12)	
			01633				
003020	000000.020511	10	01634	FORMT	XW	0, .7/B1/	
003021	000001.020503	10	01635		XW	1, .7/BC/	
003022	000002.020524	10	01636		XW	2, .7/BT/	
003023	000006.020266	10	01637		XW	6, .7/A6/	
003024	000007.020267	10	01638		XW	7, .7/A7/	
003025	000010.020270	10	01639		XW	8, .7/A8/	
			01640				
			01641				'USES X7, X11-X15
			01642				'X15 = E(1), L(1), P(1), (16), SECURITY(4), ACCESS(4), S(1), A(1), (4), LIFE(3)
003026	135640.000013	10	01643	LIBPRP	LDB	13, 11	
003027	265600.003035	11	01644		JSP	12, LIBPRS	
003030	254000.003052	11	01645		J	LIBPRA	'L
003031	665740.400000	10	01646	LIBPRE	TLOA	15, 1B18	'N SET ERROR BIT
003032	302640.000040	10	01647		CAIE	13, .7/ /	'E
003033	263340.000000	10	01648		POPJ	7,	
003034	134640.000013	10	01649		ILDB	13, 11	
003035	607540.000100	10	01650	LIBPRS	TLNN	11, =0100	'SKIP IF 7-BIT
003036	271640.000040	10	01651		ADDI	13, 32	
003037	306640.000040	10	01652		CAIN	13, .7/ /	
003040	254014.000002	10	01653		J	2(12)	
003041	607540.000100	10	01654		TLNN	11, =0100	
003042	302640.000100	10	01655		CAIE	13, =0100	
003043	307640.000040	10	01656		CAIG	13, =040	
003044	254014.000002	10	01657		J	2(12)	
003045	301640.000060	10	01658		CAIL	13, .7/0/	
003046	303640.000067	10	01659		CAILE	13, .7/7/	
003047	254014.000000	10	01660		J	(12)	
003050	405640.000007	10	01661		ANDI	13, 7	

003051	254014.000001	10	01662	J	1(12)	
			01663			
003052	201700.000000	10	01664	LIBPRA	MOVEI 14, 0	
003053	306640.000123	10	01665		CAIN 13, .7/S/	
003054	201700.000001	10	01666		MOVEI 14, 1	
003055	306640.000115	10	01667		CAIN 13, .7/M/	
003056	201700.000002	10	01668		MOVEI 14, 2	
003057	306640.000114	10	01669		CAIN 13, .7/L/	
003060	201700.000003	10	01670		MOVEI 14, 3	
003061	323700.003070	11	01671		JUMPLE 14, LIBPRB	
003062	137700.003116	11	01672		DPB 14, LIBPR1	
003063	661740.200000	10	01673		TLO 15, 1B19	'INDICATE LIFETIME
003064	265600.003034	11	01674		JSP 12, LIBPRS-1	
003065	254000.003070	11	01675		J LIBPRB	'L
003066	661740.400000	10	01676		TLO 15, 1B18	'N SET ERROR BIT
003067	263340.000000	10	01677		POPJ 7	'E
003070	302640.000056	10	01678	LIBPRB	CAIE 13, .7/. /	
003071	254000.003031	11	01679		J LIBPRE	
003072	661740.100000	10	01680		TLO 15, 1B20	'INDICATE .
003073	265600.003034	11	01681	LIBPRC	JSP 12, LIBPRS-1	
003074	254000.003104	11	01682		J LIBPRD	'L
003075	254000.003077	11	01683		J x+2	'N
003076	263340.000000	10	01684		POPJ 7	'E
003077	662740.000200	10	01685		TROE 15, 1B28	'INDICATE ACCESS
003100	254000.003031	11	01686		J LIBPRE	
003101	204715.003501	11	01687		MOVS 14, CHSLT(13)	
003102	137700.003117	11	01688		DPB 14, LIBPR2	
003103	254000.003073	11	01689		J LIBPRC	
003104	666740.000400	10	01690	LIBPRD	TRON 15, 1B27	'INDICATE LEVEL
003105	602740.000200	10	01691		TRNE 15, 1B28	'CHECK ACCESS
003106	254000.003031	11	01692		J LIBPRE	
003107	201700.000017	10	01693		MOVEI 14, 15	
003110	550616.003501	11	01694		HRRZ 12, CHSLT(14)	
003111	312600.000015	10	01695		CAME 12, 13	
003112	365700.003110	11	01696		SOJGE 14, x-2	
003113	321700.003031	11	01697		JUMPL 14, LIBPRE	
003114	137700.003120	11	01698		DPB 14, LIBPR3	
003115	254000.003073	11	01699		J LIBPRC	
003116	000300.000017	10	01700	LIBPR1	BYP 3, 15, 0	
003117	110400.000017	10	01701	LIBPR2	BYP 4, 15, 9	
003120	150400.000017	10	01702	LIBPR3	BYP 4, 15, 13	


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01703 SKP
01704 'SUBROUTINE TO READ A CHAIN NAME (0,1,2,3,7,8,10,11,12,13,14,15)
01705 /
01706 / ENTER WITH - PUSHJ 7, CHAYN
01707 /
01708 / X3(RH) POINTS TO CALLING SEQ - 0 XW , TB-PTR
01709 / X8(LH) POINTS TO SEG ZERO 1 EXP
01710 / X10(LH) CONTAINS ENTRY MASK 2 EXP
01711 / X11 CONTAINS INPUT BYP 3 EXP
01712 /
01713 / EXIT WITH - X3(RH), X8 UNCHANGED
01714 / X10(RH) CONTAINS LINK NO. OF LAST LINK READ
01715 / X11 CONTAINS INPUT BYP
01716 / 1(3) = .Q, .C (OR I, I IF BI=1)
01717 /
01718 / IF THE CHAIN NAME IS A 1-LINK CAPABILITY AND
01719 / BAL=1, THE CAP. IS MOVED ACCORDING TO BLL, BI
01720 /
01721 / 1) NO ERROR.
01722 / X10(LH) CONTAINS POSITIVE EXIT MASK
01723 / 2(3), 3(3) CONTAIN NAME (IF ANY) OF LAST LINK
01724 /
01725 / 2) ERROR.
01726 / X10(LH) CONTAINS NEGATIVE ERROR NO.
01727 / X1 CONTAINS ERROR MESSAGE BYP
01728 /
01729 'MASK BITS
01730 /
000001 0 01731 BAL SYN =0000001 '1 IF LAST LINK IS TO BE ASSIGNED
000002 0 01732 BLL SYN =0000002 '1 IF LAST LINK GOES TO C, OTHERWISE Q
000004 0 01733 BRP SYN =0000004 '1 IF REF DIR GOES TO C, OTHERWISE Q
000010 0 01734 BNN SYN =0000010 '1 IF CHAIN NAME MAY BE (IS) NULL
000020 0 01735 BU SYN =0000020 '1 IF CHAIN NAME MAY BE (IS) .NUM+NAME (.G)
000040 0 01736 BCB SYN =0000040 'IGNORED
000100 0 01737 BR SYN =0000100 '1 IF ONLY LINK MAY BE (IS) .
000200 0 01738 BW SYN =0000200 '1 IF ONLY LINK MAY BE (IS) .W
000400 0 01739 BC SYN =0000400 '1 IF ONLY LINK MAY BE (IS) .C
001000 0 01740 BUR SYN =0001000 '1 IF ONLY LINK MAY BE (IS) .NUM (.T IF BU=0)
01741 'THE FOLLOWING BIT OVERRIDES BLL AND BRP
200000 0 01742 BI SYN =0200000 '1 IF I-PTR IN 1(3), ALL ASSIGNS ARE TO I
01743 /
000156 0 01744 CAPR SYN =0156
000162 0 01745 CAPW SYN =0162
000166 0 01746 CAPC SYN =0166
000172 0 01747 CAPQ SYN =0172
01748 /
000007 0 01749 THRESH SYN 7 'SECURITY LEVEL A
000750 0 01750 CHMSK SYN BNN+BCB+BR+BW+BC
01751 /
003121 201040.000013 10 01752 CHAYN MOVEI 1, FNASN 'STORE
003122 506043.000000 10 01753 HRLM 1, (3) 'ASSIGN FUNCTION
003123 620500.000777 10 01754 TRZ 10, =0777 'INITIALIZE
003124 435500.000001 10 01755 ICR1 10, 1 'LINK NO.
01756 /

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003125	554040.000010	10	01757	HLRZ	1, 8	' MAY BE SECURITY LEVEL
003126	607400.777760	10	01758	TLNN	8, =0 777760	' SKIP IF NOT SECURITY LEVEL
003127	254000.003133	11	01759	J	CHB1	
			01760			
003130	207000.000010	10	01761	MOVSS	8	'POINT TO CAPABILITIES
003131	200050.777777	10	01762	MOVE	1, -1(8)	
003132	135040.003471	11	01763	LDB	1, CHBP1	
			01764			
003133	261340.000001	10	01765	CHB1	PUSH	7, 1
003134	335001.003501	11	01766	SKIPGE	CHSLT(1)	'SAVE SECURITY LEVEL OF CONTROL PROCESS
003135	265760.003457	11	01767	JSP*	15, CHE3	'SKIP IF NO PARITY ERROR
003136	135000.000013	10	01768	LDB	0, 11	'LOAD 1ST CHAR
003137	201050.000172	10	01769	MOVEI	1, CAPQ(8)	
003140	603500.000004	10	01770	TLNE	10, BR	'SKIP IF REF DIR GOES TO Q
003141	201050.000166	10	01771	MOVEI	1, CAPC(8)	
003142	603500.200000	10	01772	TLNE	10, BI	'SKIP IF NO I-PTR
003143	200043.000001	10	01773	MOVE	1, 1(3)	
003144	504040.000001	10	01774	HRL	1, 1	
003145	202043.000001	10	01775	MOVEM	1, 1(3)	'STORE J, I
003146	201040.000001	10	01776	MOVEI	1, 1	
			01777			
			01778			'GET 1ST LINK
			01779			
003147	265600.003522	11	01780	JSP	12, LINK	
003150	246657.000014	10	01781	LSHC	13, 12(15)	'ALPHAMERIC
003151	254000.003315	11	01782	J	CHA	'HASH
			01783			
			01784			'TREAT
			01785			
003152	306700.000016	10	01786	CAIN	14, .6/./	
003153	364040.003271	11	01787	SOJA	1, CHP	'PUT 0 INTO X1
			01788			
			01789			'TEST FOR USER NUMBER
			01790			
003154	246657.000022	10	01791	LSHC	13, 18(15)	'LEFT-JUSTIFY, REMOVE
003155	326700.003261	11	01792	JUMPN	14, CHD1	'JUMP IF MORE THAN 6 CHARS
003156	201600.000000	10	01793	MOVEI	12, 0	
003157	246600.000006	10	01794	LSHC	12, 6	
003160	302600.000015	10	01795	CAIE	12, .6/./	
003161	246600.777772	10	01796	LSHC	12, -6	
003162	200100.000015	10	01797	MOVE	2, 13	
003163	201040.000000	10	01798	MOVEI	1, 0	
003164	246040.000006	10	01799	LSHC	1, 6	
003165	301040.000020	10	01800	CAIL	1, .6/0/	
003166	303040.000031	10	01801	CAILE	1, .6/9/	
003167	254000.003257	11	01802	J	CHD	'JUMP IF NON-NUMERIC
003170	326100.003163	11	01803	JUMPN	2, *-5	
003171	254000.003173	11	01804	J	*+2	
003172	241640.777772	10	01805	ROT	13, -6	
003173	666640.000020	10	01806	TRON	13, =020	
003174	254000.003172	11	01807	J	*-2	
003175	332000.000014	10	01808	SKIPE	12	
003176	641640.750000	10	01809	TLC	13, =0750000	'PREFIX M
003177	202643.000002	10	01810	MOVEM	13, 2(3)	'STORE NAME

003200	202703.000003	10	01811	MOVEM	14, 3(3)	' OF ROOT DIRECTORY
003201	200743.000000	10	01812	MOVE	15, (3)	'POINT TO TB
003202	402017.000000	10	01813	Z	(15)	
003203	261340.000000	10	01814	PUSH	7, 0	
003204	260340.110000	1F	01815	PUSHJ	7, GETRD	'ASSIGN ROOT DIRECTORY
003205	262340.000000	10	01816	POP	7, 0	
003206	201040.000013	10	01817	MOVEI	1, FNASN	
003207	506043.000000	10	01818	HRLM	1, (3)	
003210	200043.000001	10	01819	MOVE	1, 1(3)	'STORE
003211	506043.000001	10	01820	HRLM	1, 1(3)	' I INTO J
003212	265600.003433	11	01821	JSP	12, CHELFT	'TEST FOR ELF ERROR
003213	621500.000750	10	01822	TLZ	10, CHMSK	
003214	306000.000032	10	01823	CAIN	0, =032	'SKIP IF ONLY 1 LINK
003215	254000.003231	11	01824	J	CHC1	
003216	603500.001000	10	01825	TLNE	10, BUR	'SKIP IF .NUM IS NOT ALLOWED
003217	607500.000001	10	01826	TLNN	10, BAL	'SKIP IF LAST LINK IS TO BE ASSIGNED
003220	265760.003461	11	01827	JSP*	15, CHE4	
003221	265600.003416	11	01828	JSP	12, CHIP	'STORE I-PTR
003222	627500.000020	10	01829	TLZN	10, BU	'SKIP IF .NUM MEANS USER-ROOT
003223	254000.003234	11	01830	J	CHC2	
003224	200743.000001	10	01831	MOVE	15, 1(3)	
003225	200600.000017	10	01832	MOVE	12, 15	
003226	251617.000003	10	01833	BLT	12, 3(15)	
003227	265600.003406	11	01834	JSP	12, CHECK	'CHECK SECURITY LEVEL OF USER-ROOT
003230	254000.003376	11	01835	J	CHXIT	
			01836			
003231	621500.001000	10	01837	CHC1	TLZ	10, BUR
003232	205640.164700	10	01838	MOVSI	13, .6/.G /	
003233	607500.000020	10	01839	TLNN	10, BU	
003234	205640.166400	10	01840	CHC2	MOVSI	13, .6/.T /
003235	201700.000000	10	01841	MOVEI	14, 0	
003236	202643.000002	10	01842	MOVEM	13, 2(3)	'STORE
003237	202703.000003	10	01843	MOVEM	14, 3(3)	' NAME
003240	201040.000007	10	01844	MOVEI	1, THRESH	
003241	315047.000000	10	01845	CAMGE	1, (7)	
003242	202047.000000	10	01846	MOVEM	1, (7)	'REPLACE CONTROL LEVEL
003243	265600.003424	11	01847	JSP	12, CHELF	'ASSIGN .G OR .T
003244	603500.000020	10	01848	TLNE	10, BU	'SKIP IF .T
003245	254000.003341	11	01849	J	CHLP2	
003246	200043.000001	10	01850	MOVE	1, 1(3)	'POINT TO .T CAPABILITY
003247	200601.000000	10	01851	MOVE	12, (1)	
003250	667600.001000	10	01852	TLON	12, 1B26	'INHIBIT WRITE ACCESS
003251	641600.010000	10	01853	TLC	12, 1B23	'CORRECT PARITY
003252	202601.000000	10	01854	MOVEM	12, (1)	
003253	306000.000032	10	01855	CAIN	0, =032	'SKIP IF ONLY 1 LINK
003254	254000.003341	11	01856	J	CHLP2	
003255	265600.003406	11	01857	JSP	12, CHECK	'CHECK SECURITY LEVEL OF .T
003256	254000.003376	11	01858	J	CHXIT	
			01859			
003257	332000.000014	10	01860	CHD	SKIPE	12
003260	246600.777772	10	01861	LSHC	12, -6	
003261	246640.777772	10	01862	CHD1	LSHC	13, -6
003262	661640.160000	10	01863	TLO	13, .6/ /	
003263	621500.001770	10	01864	TLZ	10, CHMSK+BU+BUR	

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003264 205610.000156 10 01865 MOVSI 12, CAPR(8)
003265 200743.000001 10 01866 MOVE 15, 1(3)
003266 540600.000017 10 01867 HRR 12, 15
003267 251617.000003 10 01868 BLT 12, 3(15)
003270 254000.003334 11 01869 J CHLP1
01870
01871 'TREAT ., .W, .C
01872
003271 306000.000032 10 01873 CHP CAIN 0, =032 'SKIP IF ONLY 1 LINK
003272 254000.003277 11 01874 J CHLP1
003273 616501.003476 11 01875 TDNN 10, CHFT(1) 'SKIP IF CAPABILITY IS ALLOWED
003274 265760.003461 11 01876 JSP* 15, CHE4
003275 603500.000001 10 01877 TLNE 10, BAL 'SKIP IF LAST LINK IS NOT TO BE ASSIGNED
003276 265600.003416 11 01878 JSP 12, CHIP 'STORE I-PTR
003277 205621.003473 11 01879 CHP1 MOVSI* 12, CHPT(1) 'POINT TO CAPABILITY
003300 200743.000001 10 01880 MOVE 15, 1(3)
003301 540600.000017 10 01881 HRR 12, 15
003302 251617.000003 10 01882 BLT 12, 3(15)
003303 621500.001770 10 01883 TLZ 10, CHMSK+BU+BUR
003304 306000.000032 10 01884 CAIN 0, =032 'SKIP IF ONLY 1 LINK
003305 254000.003313 11 01885 J CHP2
003306 434501.003476 11 01886 IOR 10, CHFT(1) 'SET CAPABILITY FLAG
003307 322040.003376 11 01887 JUMPE 1, CHXIT 'JUMP IF
003310 603500.000001 10 01888 TLNE 10, BAL 'SKIP IF NO ASSIGN OF LAST LINK
003311 265600.003406 11 01889 JSP 12, CHECK 'CHECK SECURITY LEVEL OF .W OR .C
003312 254000.003376 11 01890 J CHXIT
003313 326040.003341 11 01891 CHP2 JUMPN 1, CHLP2 'JUMP IF NOT
003314 254000.003342 11 01892 J CHLP2+1
01893
01894 'TREAT NORMAL NAME
01895
003315 205610.000156 10 01896 CHA MOVSI 12, CAPR(8)
003316 200743.000001 10 01897 MOVE 15, 1(3)
003317 540600.000017 10 01898 HRR 12, 15
003320 251617.000003 10 01899 BLT 12, 3(15)
003321 205600.166700 10 01900 MOVSI 12, .6/.W /
003322 202603.000002 10 01901 MOVEM 12, 2(3)
003323 402003.000003 10 01902 Z 3(3)
003324 202650.000162 10 01903 MOVEM 13, CAPW (8)
003325 202710.000163 10 01904 MOVEM 14, CAPW+1 (8)
003326 265600.003424 11 01905 JSP 12, CHELF 'ASSIGN .W
003327 200650.000162 10 01906 MOVE 13, CAPW (8)
003330 200710.000163 10 01907 MOVE 14, CAPW+1 (8)
003331 265600.003406 11 01908 JSP 12, CHECK 'CHECK SECURITY LEVEL
003332 625500.001770 10 01909 TLZA 10, CHMSK+BU+BUR
01910
003333 246657.000014 10 01911 CHLP1 LSHC 13, 12(15) 'LEFT-JUSTIFY NAME
003334 202643.000002 10 01912 CHLP1 MOVEM 13, 2(3) 'STORE
003335 202703.000003 10 01913 MOVEM 14, 3(3) 'NAME
003336 302000.000032 10 01914 JSP CAIN 0, =032 'SKIP IF COLON
003337 254000.003352 11 01915 J CHL
003340 265600.003424 11 01916 JSP 12, CHELF 'ASSIGN LINK
003341 265600.003406 11 01917 CHLP2 JSP 12, CHECK 'CHECK SECURITY LEVEL
003342 350000.000012 10 01918 AOS 10 'UPDATE LINK NO.

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003423 254014.000000 10 01973 J (12)
01974 '
01975 'SUBROUTINE TO CALL ELF
01976 '
003424 200743.000000 10 01977 CHELF MOVE 15, (3) 'POINT TO TB
003425 402017.000000 10 01978 Z (15)
003426 504600.000000 10 01979 HRL 12, 0
003427 261340.000014 10 01980 PUSH 7, 12
003430 260340.020000 1F 01981 PUSHJ 7, ELEPH
003431 262340.000014 10 01982 POP 7, 12
003432 554000.000014 10 01983 HLRZ 0, 12
003433 200743.000000 10 01984 CHELFT MOVE 15, (3)
003434 331017.000001 10 01985 SKIPL 1(15) 'SKIP IF ERROR
003435 254014.000000 10 01986 J (12)
003436 200600.000012 10 01987 MOVE 12, 10 'SAVE MASK BITS
003437 500517.000001 10 01988 HLL 10, 1(15) 'SAVE ERROR NO.
003440 204040.000012 10 01989 MOVS 1, 10
003441 620040.400000 10 01990 TRZ 1, B18
003442 200041.024000 1F 01991 MOVE 1, ELFEBP(1) 'PICK UP ERROR MESSAGE BYP
003443 254000.003377 11 01992 J CHXE
01993 '
01994 'ERROR SECTION
01995 '
003444 200057.777777 10 01996 CHE MOVE 1, -1(15) 'GENERATE
003445 200600.000012 10 01997 MOVE 12, 10 'SAVE MASK BITS
003446 504501.000001 10 01998 HRL 10, 1(1) 'INDICATE CHAIN ERROR
003447 661500.400000 10 01999 TLO 10, 1 B18
003450 550041.000001 10 02000 HRRZ 1, 1(1) 'GET BYTE POINTER
003451 200041.024000 1F 02001 MOVE 1, ELFEBP(1)
003452 254000.003377 11 02002 J CHXE
02003 '
003453 000000.003444 11 02004 CHE1 EXP CHE, LFR55
003454 000000.000055 10
003455 000000.003444 11 02005 CHE2 EXP CHE, LFR60
003456 000000.000060 10
003457 000000.003444 11 02006 CHE3 EXP CHE, LFR61
003460 000000.000061 10
003461 000000.003444 11 02007 CHE4 EXP CHE, LFR54
003462 000000.000054 10
003463 000000.003444 11 02008 CHE5 EXP CHE, LFR12
003464 000000.000012 10
003465 000000.003444 11 02009 CHE6 EXP CHE, LFR25
003466 000000.000025 10
003467 000000.003444 11 02010 CHE7 EXP CHE, LFR07
003470 000000.000007 10
02011 '
003471 030401.000000 10 02012 CHBP1 BYP 4, (1), 3
003472 370417.000000 10 02013 CHBP2 BYP 4, (15), 31
02014 '
003473 000010.000156 10 02015 CHPT EXP CAPR(8) '0
003474 000010.000162 10 02016 EXP CAPW(8) '1
003475 000010.000166 10 02017 EXP CAPC(8) '2
02018 '
003476 000100.000000 10 02019 CHFT XW BR, '0

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003477	000200.000000	10	02020		XW	BW,	'1
003500	000400.000000	10	02021		XW	BC,	'2
			02022				
003501	400010.000040	10	02023	CHSLT	EXP	1B0+08B17+.7//	'0
003502	000001.000116	10	02024		EXP	0B0+01B17+.7/N/	'1
003503	000002.000125	10	02025		EXP	0B0+02B17+.7/U/	'2
003504	400013.000040	10	02026		EXP	1B0+11B17+.7//	'3
003505	000004.000120	10	02027		EXP	0B0+04B17+.7/P/	'4
003506	400015.000040	10	02028		EXP	1B0+13B17+.7//	'5
003507	400016.000040	10	02029		EXP	1B0+14B17+.7//	'6
003510	000007.000101	10	02030		EXP	0B0+07B17+.7/A/	'7
003511	000000.000103	10	02031		EXP	0B0+00B17+.7/C/	'8
003512	400000.000040	10	02032		EXP	1B0+00B17+.7//	'9
003513	400000.000040	10	02033		EXP	1B0+00B17+.7//	'10
003514	000000.000123	10	02034		EXP	0B0+00B17+.7/S/	'11
003515	400000.000040	10	02035		EXP	1B0+00B17+.7//	'12
003516	000000.000124	10	02036		EXP	0B0+00B17+.7/T/	'13
003517	000000.000113	10	02037		EXP	0B0+00B17+.7/K/	'14
003520	400000.000040	10	02038		EXP	1B0+00B17+.7//	'15

NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
				02039	SKP				
				02040	'GET NEXT	LINK IN CHAIN NAME (0,10,11,12,13,14,15)			
				02041					
003521	134000.	000013	10	02042	ILDB	0, 11			
003522	201640.	000000	10	02043	LINK MOVEI	13, 0			
003523	201700.	000000	10	02044	MOVEI	14, 0			
003524	201740.	000074	10	02045	MOVEI	15, 60			
003525	603540.	000100	10	02046	TLNE	11, =0100		'SKIP IF 6-BIT CHARS	
003526	254000.	003531	11	02047	J	LK7			
003527	254000.	003615	11	02048	J	LK6			
				02049					
003530	134000.	000013	10	02050	ILDB	0, 11			
003531	306000.	000040	10	02051	LK7 CAIN	0, 7/ /			
003532	254000.	003530	11	02052	J	*-2			
003533	306000.	000056	10	02053	CAIN	0, 7/ ./			
003534	271600.	000002	10	02054	ADDI	12, 2			
003535	301000.	000140	10	02055	LK7A CAIL	0, =0140		'SKIP IF NOT COMBINATION CHAR	
003536	624000.	000100	10	02056	TRZA	0, =0100			
003537	275000.	000040	10	02057	SUBI	0, =040			
003540	333000.	000000	10	02058	SKIPLE	0		'SKIP IF CONTROL CHAR OR BLANK	
003541	306000.	000032	10	02059	CAIN	0, =032		'SKIP IF NOT COLON	
003542	254000.	003550	11	02060	J	LK7B			
003543	246640.	000006	10	02061	LSHC	13, 6			
003544	434700.	000000	10	02062	IOR	14, 0			
003545	275740.	000006	10	02063	SUBI	15, 6			
003546	134000.	000013	10	02064	ILDB	0, 11			
003547	254000.	003535	11	02065	J	LK7A			
				02066					
003550	326700.	003601	11	02067	LK7B JUMPN	14, LK7E		'JUMP IF NOT 1ST CHAR	
003551	316000.	003613	11	02068	CAMN	0, LK7K		'SKIP IF NOT HASH SIGNAL	
003552	344600.	003564	11	02069	LK80 AOJA	12, LK7D			
003553	335000.	000000	10	02070	SKIPGE	0		'SKIP IF NOT CONTROL CHAR	
003554	602500.	000776	10	02071	LK76 TRNE	10, =0776		'SKIP IF 1ST LINK	
003555	265760.	003453	11	02072	JSP*	15, CHE1			
003556	667500.	000010	10	02073	TLON	10, BNN		'SKIP IF NULL NAME IS LEGAL	
003557	265760.	003455	11	02074	JSP*	15, CHE2			
003560	254000.	003376	11	02075	J	CHXIT			
				02076					
003561	246640.	000006	10	02077	LK7C LSHC	13, 6			
003562	434700.	000000	10	02078	IOR	14, 0			
003563	275740.	000006	10	02079	SUBI	15, 6			
003564	134000.	000013	10	02080	LK7D ILDB	0, 11		'SKIP IF NOT COMBINATION CHAR	
003565	301000.	000140	10	02081	CAIL	0, =0140			
003566	624000.	000100	10	02082	TRZA	0, =0100			
003567	275000.	000040	10	02083	SUBI	0, =040			
003570	325000.	003561	11	02084	JUMPGE	0, LK7C		'JUMP IF NOT CONTROL CHAR	
003571	312000.	003613	11	02085	CAME	0, LK7K		'SKIP IF END-OF-HASH SIGNAL	
003572	265760.	003453	11	02086	JSP*	15, CHE1			
003573	271740.	000014	10	02087	ADDI	15, 12			
003574	246657.	000000	10	02088	LSHC	13, (15)		'LEFT-JUSTIFY NAME	
003575	134000.	000013	10	02089	ILDB	0, 11			
003576	301000.	000140	10	02090	CAIL	0, =0140			
003577	624000.	000100	10	02091	TRZA	0, =0100			
003600	275000.	000040	10	02092	SUBI	0, =040			

003601	335000.000017	10	02093	LK7E	SKIPGE	15	'SKIP IF NOT MORE THAN 10 (12) CHARS
003602	265760.003453	11	02094		JSP*	15, CHE1	
003603	326014.000000	10	02095		JUMPN	0, (12)	'EXIT IF NON-BLANK
003604	134000.000013	10	02096		ILDB	0, 11	
003605	306000.000040	10	02097		CAIN	0, .7 / /	
003606	254000.003604	11	02098		J	*-2	
003607	301000.000140	10	02099		CAIL	0, =0140	
003610	624000.000100	10	02100		TRZA	0, =0100	
003611	275000.000040	10	02101		SUBI	0, =040	
003612	254014.000000	10	02102		J	(12)	
003613	777777.777752	10	02103	LK7K	EXP	.7 /=L/ - .7 / /	
			02104				
			02105				
003614	134000.000013	10	02106		ILDB	0, 11	
003615	322000.003614	11	02107	LK6	JUMPE	0, *-1	
003616	306000.000016	10	02108		CAIN	0, .6 / ./	
003617	271600.000002	10	02109		ADDI	12, 2	
003620	302000.000032	10	02110	LK6A	CAIE	0, =032	'SKIP IF COLON
003621	306000.000040	10	02111		CAIN	0, =040	'SKIP IF NOT END CHAR
003622	254000.003634	11	02112		J	LK6D	
003623	246640.000006	10	02113		LSHC	13, 6	
003624	434700.000000	10	02114		IOR	14, 0	
003625	275740.000006	10	02115		SUBI	15, 6	
003626	134000.000013	10	02116		ILDB	0, 11	
003627	326000.003620	11	02117		JUMPN	0, LK6A	'JUMP IF NON-BLANK
003630	134000.000013	10	02118		ILDB	0, 11	
003631	322000.003630	11	02119		JUMPE	0, *-1	
003632	325754.000000	10	02120	LK6C	JUMPGE	15, (12)	'EXIT IF NOT MORE THAN 10 CHARS
003633	265760.003453	11	02121		JSP*	15, CHE1	
			02122				
003634	326700.003632	11	02123	LK6D	JUMPN	14, LK6C	'JUMP IF NOT 1ST CHAR
003635	302000.000040	10	02124		CAIE	0, =040	'SKIP IF END CHAR
003636	265760.003453	11	02125		JSP*	15, CHE1	
003637	254000.003554	11	02126		J	LK76	

003640	302500.000033	10	02127		SKP		
003641	254000.003667	11	02128	TIME0	CAIE	10, =033	
003642	777640.000002	10	02129		J	TIME3	
003643	242100.777766	10	02130		CONI	\$RTC2, 2	
003644	270100.120000	1F	02131		LSH	2, -10	
003645	254000.003667	11	02132		ADD	2, 00TYME	
003646	200100.104000	1F	02133	TIME	J	TIME3	
003647	336010.000006	10	02134		MOVE	2, 00TIME	
003650	254000.003667	11	02135		SKIPN	IBC+2(8)	'SKIP IF INPUT
003651	265600.006565	11	02136		J	TIME3	
003652	200140.000013	10	02137		JSP	12, IB	
003653	265600.006214	11	02138		MOVE	3, 11	
003654	254000.003640	11	02139		JSP	12, SO	
003655	334100.000015	10	02140		J	TIME0	'E
003656	254000.003700	11	02141		SKIPA	2, 13	'N
003657	307700.000014	10	02142		J	TIME4A	'L
003660	325100.003674	11	02143		CAIG	14, 12	
003661	265600.006532	11	02144	TIME1	JUMPGE	2, TIME4	
003662	201740.000077	10	02145		JSP	12, OB	
003663	136740.000011	10	02146		MOVEI	15, =077	'QM
003664	265600.006367	11	02147	TIME2	IDPB	15, 9	
003665	265600.006541	11	02148		JSP	12, P2	
003666	263340.000000	10	02149		JSP	12, OF	
003667	265600.070000	1F	02150	TIME3	POPJ	7	
003670	265600.006532	11	02151		JSP	12, 00CVIT	
003671	265600.074000	1F	02152		JSP	12, OB	
003672	254000.003664	11	02153		JSP	12, 00CVTA	
003673	134500.000013	10	02154		J	TIME2	
003674	306500.000040	10	02155	TIME4	ILDB	10, 11	
003675	254000.003673	11	02156		CAIN	10, .7/ /	
003676	307500.000040	10	02157		J	*-2	
003677	254000.003667	11	02158		CAIG	10, .7/ /	'SKIP IF NOT CONTROL CHAR
003700	200540.000003	10	02159	TIME4A	J	TIME3	
003701	135500.000013	10	02160		MOVE	11, 3	
003702	201140.000006	10	02161		LDB	10, 11	
003703	201240.000000	10	02162		MOVEI	3, 6	
003704	265600.006231	11	02163	TIME5	MOVEI	5, 0	
003705	254000.003661	11	02164		JSP	12, SD	
003706	303700.000002	10	02165		J	TIME1	'E
003707	254000.003661	11	02166		CAILE	14, 2	'N
003710	231640.000012	10	02167		J	TIME1	'L
003711	242640.000004	10	02168		IDIVI	13, 10	
003712	434640.000016	10	02169		LSH	13, 4	
003713	302140.000004	10	02170		OR	13, 14	
003714	254000.003720	11	02171	TIME2	CAIE	3, 4	'SKIP IF YEAR
003715	242640.000020	10	02172		J	*+4	
003716	434240.000015	10	02173		LSH	13, 16	
003717	364140.003704	11	02174		OR	5, 13	
003720	246200.000010	10	02175		SOJA	3, TIME5	
003721	434240.000015	10	02176	TIME3	LSHC	4, 8	
003722	367140.003734	11	02177		OR	5, 13	
003723	200700.000004	10	02178		SOJG	3, TIME6	
003724	200740.000005	10	02179		MOVE	14, 4	
			02180		MOVE	15, 5	

003725	246700.000030	10	02181	LSHC	14, 24	
003726	265600.100000	1F	02182	JSP	12, 00CVTI	
003727	265600.006532	11	02183	JSP	12, 0B	
003730	200740.000002	10	02184	MOVE	15, 2	
003731	265600.006416	11	02185	JSP	12, P5	
003732	254000.003664	11	02186	J	TIME2	
003733	134500.000013	10	02187	ILDB	10, 11	
003734	306500.000040	10	02188	CAIN	10, .7/ /	TIME6
003735	254000.003733	11	02189	J	*-2	
003736	201740.000072	10	02190	MOVEI	15, .7/ /	
003737	303140.000002	10	02191	CAILE	3, 2	
003740	201740.000057	10	02192	MOVEI	15, .7\$/ \$	
003741	312500.000017	10	02193	CAME	10, 15	
003742	254000.003661	11	02194	J	TIME1	
003743	134500.000013	10	02195	ILDB	10, 11	
003744	254000.003704	11	02196	J	TIME5	
			02197			
			02198			
003745	201000.004123	11	02199	MOVEI	LOC, CORE10	
003746	201200.000000	10	02200	MOVEI	4, 0	'BFR SENTINEL
003747	201240.000000	10	02201	MOVEI	5, 0	'LOWER BOUND
003750	201300.777777	10	02202	MOVEI	6, -1	'UPPER BOUND
003751	336010.000006	10	02203	SKIPN	1BC+2(8)	'SKIP IF INPUT
003752	254000.003767	11	02204	J	CORE1A	
003753	265600.006565	11	02205	JSP	12, 1B	
003754	265600.006214	11	02206	JSP	12, S0	
003755	254000.003766	11	02207	J	CORE1	'END
003756	303700.000006	10	02208	CAILE	14, 6	'NO
003757	265760.006005	11	02209	JSP*	15, PRCE2	'NAME
003760	200240.000015	10	02210	MOVE	5, 13	
003761	265600.006214	11	02211	JSP	12, S0	
003762	254000.003766	11	02212	J	CORE1	'END
003763	303700.000006	10	02213	CAILE	14, 6	'NO
003764	265760.006005	11	02214	JSP*	15, PRCE2	'NAME
003765	200300.000015	10	02215	MOVE	6, 13	
003766	265600.006577	11	02216	JSP	12, IFCB	
003767	201100.000000	10	02217	MOVEI	2, 0	'FWA
003770	205040.777760	10	02218	MOVSI	1, -16	
003771	200700.034000	1F	02219	MOVE	14, 00ME	
003772	247700.124000	1F	02220	EXCHN	14, CORQS	
003773	331000.000016	10	02221	SKIPL	14	
003774	077000.000040	10	02222	TRAP	.L	
003775	201700.006615	11	02223	MOVEI	14, COREB	
003776	505700.777636	10	02224	HRLI	14, -98	
003777	402000.006615	11	02225	Z	COREB	
004000	335741.050000	1F	02226	SKIPGE	15, 00BOX(1)	'SKIP IF NO TBL PTR
004001	254000.004004	11	02227	J	*+3	
004002	271100.040000	10	02228	ADDI	2, 16384	
004003	254000.004014	11	02229	J	CORE4	
004004	242740.000007	10	02230	LSH	15, 7	
004005	200157.000000	10	02231	MOVE	3, (15)	
004006	502156.000000	10	02232	HLLM	3, (14)	'STORE USAGE
004007	405140.000777	10	02233	ANDI	3, =0777	
004010	322140.004021	11	02234	JUMPE	3, CORE5	

004011	270740.000003	10	02235	ADD	15, 3	'UPDATE TBL PTR
004012	242140.000007	10	02236	LSH	3, 7	
004013	270100.000003	10	02237	ADD	2, 3	
004014	202116.000001	10	02238	CORE4	MOVEM	2, 1(14)
004015	252700.004021	11	02239	AOBJP	14, CORE5	
004016	602100.037777	10	02240	TRNE	2, =037777	
004017	254000.004005	11	02241	J	CORE3	
004020	253040.004000	11	02242	AOBJN	1, CORE2	
			02243			
004021	402016.000000	10	02244	CORE5	Z	(14)
004022	476000.124000	1F	02245	SETOM	CORQS	
004023	265600.006532	11	02246	JSP	12, OB	
004024	201540.004154	11	02247	MOVEI	11, COREK2	
004025	265600.006353	11	02248	JSP	12, P1	'STACK HEADING
004026	265600.006367	11	02249	JSP	12, P2	
004027	201040.006615	11	02250	MOVEI	1, COREB	
004030	321240.004036	11	02251	CORE6	JUMPL	5, CORE6A
004031	550741.000001	10	02252	HRRZ	15, 1(1)	'JUMP IF LOWER BOUND CHECKED
004032	311240.000017	10	02253	CAML	5, 15	'SKIP IF PRINT
004033	344040.004107	11	02254	AOJA	1, CORE8	
004034	205240.777777	10	02255	MOVSI	5, -1	
004035	254000.004041	11	02256	J	CORE6B	
004036	550741.000000	10	02257	CORE6A	HRRZ	15, (1)
004037	315300.000017	10	02258	CAMGE	6, 15	'SKIP IF PRINT
004040	254000.004123	11	02259	J	CORE10	
004041	201740.000031	10	02260	CORE6B	MOVEI	15, =031
004042	265600.006542	11	02261	JSP	12, OFE	
004043	265600.006532	11	02262	JSP	12, OB	
004044	200741.000000	10	02263	MOVE	15, (1)	
004045	265600.006431	11	02264	JSP	12, P6	'STACK FWA
004046	200741.000001	10	02265	MOVE	15, 1(1)	
004047	550101.000000	10	02266	HRRZ	2, (1)	
004050	274740.000002	10	02267	SUB	15, 2	
004051	265600.004136	11	02268	JSP	12, CORES	'STACK SIZE
004052	204741.000000	10	02269	MOVS	15, (1)	
004053	550140.000017	10	02270	HRRZ	3, 15	
004054	201600.004065	11	02271	MOVEI	12, CORE7	
004055	326140.004136	11	02272	JUMPN	3, CORES	'STACK USAGE
004056	241740.000004	10	02273	ROT	15, 4	
004057	201140.004160	11	02274	MOVEI	3, COREK3	'FREE'
004060	335757.050000	1F	02275	SKIPGE	15, 00BOX(15)	
004061	254000.004065	11	02276	J	CORE7	
004062	201140.004162	11	02277	MOVEI	3, COREK4	'SYSTEM'
004063	336000.000017	10	02278	SKIPN	15	
004064	201140.004164	11	02279	MOVEI	3, COREK5	'NEM'
004065	265600.004126	11	02280	CORE7	JSP	12, COREN
004066	350000.000003	10	02281	AOS	3	
004067	265600.004126	11	02282	JSP	12, COREN	
004070	200743.000000	10	02283	MOVE	15, (3)	
004071	336703.777777	10	02284	SKIPN	14, -1(3)	
004072	250700.000017	10	02285	EXCH	14, 15	
004073	322700.004105	11	02286	JUMPE	14, CORE7B	
004074	201640.000000	10	02287	CORE7A	MOVEI	13, 0
004075	246640.000006	10	02288	LSHC	13, 6	

004076	271640	.000040	10	02289	ADDI	13, 32			
004077	136640	.000011	10	02290	IDPB	13, 9			
004100	242700	.777772	10	02291	LSH	14, -6			
004101	246700	.000006	10	02292	LSHC	14, 6			
004102	336000	.000016	10	02293	SKIPN	14			
004103	332000	.000017	10	02294	SKIPE	15			
004104	254000	.004074	11	02295	J	CORE7A			
004105	265600	.006367	11	02296	JSP	12, P2			
004106	350000	.000001	10	02297	AOS	1			
004107	336010	.000006	10	02298	SKIPN	1BC+2(8)			'SKIP IF INPUT
004110	335010	.000005	10	02299	SKIPGE	1BC+1(8)			'SKIP IF NO BREAK
004111	254000	.004122	11	02300	J	CORE9A			
004112	301040	.006760	11	02301	CAIL	1, COREB+99			'SKIP IF NOT END OF BFR
004113	254000	.004117	11	02302	J	CORE9			
004114	200101	.000000	10	02303	MOVE	2, (1)			
004115	602100	.777777	10	02304	TRNE	2, -1			
004116	254000	.004030	11	02305	J	CORE6			
004117	201740	.000012	10	02306	MOVEI	15, .7/=L/			
004120	136740	.000011	10	02307	IDPB	15, 9			
004121	331000	.000005	10	02308	SKIPL	5			'SKIP IF A LINE WAS PRINTED
004122	265600	.006532	11	02309	JSP	12, OB			
004123	201740	.000031	10	02310	MOVEI	15, =031			
004124	265600	.006542	11	02311	JSP	12, OFE			
004125	263340	.000000	10	02312	POPJ	7,			
				02313					
004126	607140	.777777	10	02314	TLNN	3, -1			
004127	307140	.001000	10	02315	CAIG	3, =01000			
004130	254000	.004105	11	02316	J	CORE7B			
004131	241140	.777762	10	02317	ROT	3, -14			
004132	336003	.050000	1F	02318	SKIPN	00BOX(3)			
004133	254000	.004105	11	02319	J	CORE7B			
004134	241140	.000016	10	02320	ROT	3, 14			
004135	254014	.000000	10	02321	J	(12)			
				02322					
004136	514740	.000017	10	02323	HRLZ	15, 15			
004137	201640	.000007	10	02324	MOVEI	13, 7			
004140	201100	.000040	10	02325	MOVEI	2, .7/ /			
004141	603740	.700000	10	02326	TLNE	15, 7B20			
004142	364640	.004147	11	02327	SOJA	13, *+5			
004143	136100	.000011	10	02328	IDPB	2, 9			
004144	242740	.000003	10	02329	LSH	15, 3			
004145	365640	.004141	11	02330	SOJGE	13, *-4			
004146	254014	.000000	10	02331	J	(12)			
004147	201700	.000006	10	02332	MOVEI	14, 6			
004150	246700	.000003	10	02333	LSHC	14, 3			
004151	136700	.000011	10	02334	IDPB	14, 9			
004152	367640	.004147	11	02335	SOJG	13, *-3			
004153	344640	.004143	11	02336	AOJA	13, *-8			
				02337					
004154	000046	.674100	10	02338	COREK2	BYT	(.6)/	FWA	SIZE USAGE*/
004155	000000	.635172	10						
004156	450000	.006563	10						
004157	414745	.120000	10						
004160	000046	.624545	10	02339	COREK3	BYT	(.6)/	FREE	/

004161 000000.000000 10
 004162 637163.644555 10 02340 COREK4
 004163 000000.000000 10
 004164 000000.564555 10 02341 COREK5
 004165 000000.000000 10

BYT (.6)/SYSTEM /
 BYT (.6)/ NEM /

FILE OF CORE K4

FILE OF CORE K5

STAGE 1

INDICATE LOAD CODE

PROCESS NUMBER

PROCESS

INDICATE CLEARANCE

LEVEL

INITIAL CORE K4

004166 000000.000000 10
 004167 000000.000000 10
 004168 000000.000000 10
 004169 000000.000000 10
 004170 000000.000000 10
 004171 000000.000000 10
 004172 000000.000000 10
 004173 000000.000000 10
 004174 000000.000000 10
 004175 000000.000000 10
 004176 000000.000000 10
 004177 000000.000000 10
 004178 000000.000000 10
 004179 000000.000000 10
 004180 000000.000000 10

004166 000000.000000 10
 004167 000000.000000 10
 004168 000000.000000 10
 004169 000000.000000 10
 004170 000000.000000 10
 004171 000000.000000 10
 004172 000000.000000 10
 004173 000000.000000 10
 004174 000000.000000 10
 004175 000000.000000 10
 004176 000000.000000 10
 004177 000000.000000 10
 004178 000000.000000 10
 004179 000000.000000 10
 004180 000000.000000 10

004166 000000.000000 10
 004167 000000.000000 10
 004168 000000.000000 10
 004169 000000.000000 10
 004170 000000.000000 10
 004171 000000.000000 10
 004172 000000.000000 10
 004173 000000.000000 10
 004174 000000.000000 10
 004175 000000.000000 10
 004176 000000.000000 10
 004177 000000.000000 10
 004178 000000.000000 10
 004179 000000.000000 10
 004180 000000.000000 10

			02342						
		000003	0	02343	PROCP	SKP			
				02344		SYN	3		'SIZE OF PROC PDL WORKING STORAGE
004166	265200	004201	11	02345	PROCL	JSP	4, PROC1		
004167	265600	006532	11	02346		JSP	12, OB		
004170	201540	005604	11	02347		MOVEI	11, PRCK1		'L = '
004171	265600	006353	11	02348		JSP	12, P1		
004172	554747	777777	10	02349		HLRZ	15, -1(7)		'PICK UP CODE BFR FWA
004173	202747	000002	10	02350		MOVEM	15, 2(7)		'L
004174	202747	000003	10	02351		MOVEM	15, 3(7)		'A
004175	265600	006403	11	02352		JSP	12, P4		'STACK L
004176	265600	006367	11	02353		JSP	12, P2		
004177	661000	000001	10	02354		TLO	LOC, 1		'INDICATE LOAD CODE
004200	254000	004227	11	02355		J	PRC1		
				02356					
004201	201000	004227	11	02357	PROCI	MOVEI	LOC, PRC1		
004202	402007	000001	10	02358		Z	1(7)		'PROCESS NUMBER
004203	402007	000002	10	02359		Z	2(7)		'L
004204	402007	000003	10	02360		Z	3(7)		'A
004205	254004	000000	10	02361		J	(4)		
				02362					
004206	265600	006532	11	02363	PROCE	JSP	12, OB		
004207	201540	004214	11	02364		MOVEI	11, PROCEM		
004210	265600	006353	11	02365		JSP	12, P1		
004211	265600	006367	11	02366		JSP	12, P2		
004212	265600	006541	11	02367		JSP	12, OF		
004213	263340	000000	10	02368		POPJ	7		
004214	515641	444561	10	02369	PROCEM	BYT (.6)	INADEQUATE CLEARANCE*/		
004215	654164	450043	10						
004216	544541	624156	10						
004217	434512	000000	10						
004220	204040	000010	10	02370	PROC	MOVS	1, 8		
004221	200041	777777	10	02371		MOVE	1, -1(1)		
004222	135040	003471	11	02372		LDB	1, CHBP1		
004223	302040	000016	10	02373		CAIE	1, 14		'K-LEVEL
004224	254000	004206	11	02374		J	PROCE		
004225	265200	004201	11	02375		JSP	4, PROC1		
				02376					
004226	265600	006532	11	02377	PRC0	JSP	12, OB		
004227	265600	006537	11	02378	PRC1	JSP	12, OFF		
				02379					
				02380					'READ NEXT INPUT LINE
				02381					
004230	553007	000002	10	02382	PRC2	HRRZS	2(7)		'INITIALIZE Q SENTINEL
004231	265600	006565	11	02383		JSP	12, IB		
004232	265600	006214	11	02384		JSP	12, SO		
004233	254000	004253	11	02385		J	PRC2E		'END
004234	254000	004401	11	02386		J	PRC5		'NO
004235	332000	000016	10	02387		SKIPE	14		'NAME
004236	265760	006004	11	02388		JSP*	15, PRCE1		
004237	205700	777744	10	02389		MOVSI	14, PRCT1-PRCT2		
004240	316656	005656	11	02390		CAMN	13, PRCT1(14)		
004241	254000	004251	11	02391		J	PRC2B		
004242	253700	004240	11	02392		A0BJN	14, *-2		

004243	201700.000000	10	02393	MOVEI	14, 0	
004244	245640.000006	10	02394	ROTC	13, 6	
004245	302700.000070	10	02395	CAIE	14, 6/X/	
004246	265760.006004	11	02396	JSP*	15, PRCE1	
004247	201200.000020	10	02397	MOVEI	4, 16	
004250	254000.005063	11	02398	J	PRC15	
			02399			
004251	200216.005712	11	02400	PRC2B	MOVE	4, PRCT2(14)
004252	254004.000000	10	02401	J	(4)	
			02402			
004253	302500.000012	10	02403	PRC2E	CAIE	10, 7/=L/
004254	254000.004267	11	02404	J	PRC2X	' SKIP IF LINE FEED
004255	200200.000000	10	02405	MOVE	4, LOC	
004256	200247.000001	10	02406	MOVE	5, 1(7)	
004257	200307.000002	10	02407	MOVE	6, 2(7)	
004260	200447.000003	10	02408	MOVE	9, 3(7)	
004261	260340.000000	11	02409	PUSHJ	7, XEQ	
004262	200000.000004	10	02410	MOVE	LOC 4	
004263	202247.000001	10	02411	PRC4E	MOVEM	5, 1(7)
004264	202307.000002	10	02412	MOVEM	6, 2(7)	
004265	202447.000003	10	02413	MOVEM	9, 3(7)	
004266	254000.004226	11	02414	J	PRC0	
			02415			
004267	331747.000001	10	02416	PRC2X	SKIPL	15, 1(7)
004270	254000.004273	11	02417	J	*+3	'SKIP IF PR IS STOPPED
004271	205600.200000	10	02418	MOVSI	12, XS	
004272	412617.000023	10	02419	ANDCAM	12, XSTAT(15)	
004273	263340.000000	10	02420	POPJ	7,	
			02421			
			02422	TREAT XEQ		
			02423			
004274	607000.000001	10	02424	PRC3	TLNN	LOC, 1
004275	265760.006004	11	02425	JSP*	15, PRCE1	'SKIP IF LOAD CODE
004276	265600.000303	11	02426	JSP	12, XEQS2	'BLANK OUT INPUT LINE
004277	200147.777777	10	02427	MOVE	3, -1(7)	'PICK UP CODE E.P.
004300	270340.005606	11	02428	ADD	7, PRCK3	
004301	261340.000000	10	02429	PUSH	7, LOC	
004302	553010.000006	10	02430	PRC4E	HRRZS	IBC+2(8)
004303	260343.000000	10	02431	PUSHJ	7, (3)	'INDICATE NEW MESSAGE
004304	262340.000000	10	02432	POP	7, LOC	'EXECUTE CODE
004305	274340.005606	11	02433	SUB	7, PRCK3	
004306	265600.000244	11	02434	JSP	12, XEQS1	'INITIALIZE TTY BFRS
004307	265600.006601	11	02435	JSP	12, IF	
004310	265600.006532	11	02436	JSP	12, OB	
004311	201540.005605	11	02437	PRC4D	MOVEI	11, PRCK2
004312	265600.006353	11	02438	JSP	12, P1	
004313	265600.006367	11	02439	JSP	12, P2	
004314	254000.004227	11	02440	J	PRC1	
			02441			
			02442	TREAT L,A FUNCTIONS		
			02443			
004315	265600.006214	11	02444	PRC4	JSP	12, S0
004316	254000.004372	11	02445	J	PRC4D	'END
004317	254000.004346	11	02446	J	PRC4B	'NO

004320	265600	006601	11	02447	JSP	12, IF	'NAME
004321	603200	000010	10	02448	TLNE	4, =010	'SKIP IF NOT SL,SA
004322	265760	006005	11	02449	JSP*	15, PRCE2	
004323	204040	000004	10	02450	MOVS	1, 4	
004324	405040	000003	10	02451	ANDI	1, 3	
004325	200061	005653	11	02452	MOVE*	1, PRCT(1)	'POINT TO RF,EP,NC NAMES
004326	271040	000002	10	02453	ADDI	1, 2	
004327	316641	777777	10	02454	CAMN	13, -1(1)	
004330	312701	000000	10	02455	CAME	14, (1)	
004331	253040	004326	11	02456	AOBJN	1, *-3	
004332	331000	000001	10	02457	SKIPL	1	
004333	265760	006007	11	02458	JSP*	15, PRCE4	
004334	607200	000001	10	02459	TLNN	4, 1	'SKIP IF LE,AE
004335	254000	004341	11	02460	J	*+4	
004336	554741	777776	10	02461	HLRZ	15, -2(1)	
004337	306740	000003	10	02462	CAIN	15, 3	'SKIP IF NOT A PROCESS NAME
004340	265760	006007	11	02463	JSP*	15, PRCE4	
004341	550641	777776	10	02464	HRRZ	13, -2(1)	'PICK UP TABLE VALUE
004342	202647	000003	10	02465	MOVEM	13, 3(7)	'STORE A
004343	607200	000004	10	02466	TLNN	4, 4	'SKIP IF A, AC, AE
004344	202647	000002	10	02467	MOVEM	13, 2(7)	'STORE L
004345	254000	004226	11	02468	J	PRCO	
				02469			
004346	265600	005552	11	02470	JSP	12, PRCH	
004347	265600	006601	11	02471	JSP	12, IF	
004350	603200	000003	10	02472	TLNE	4, 3	'SKIP IF L, A, SL, SA
004351	265760	006004	11	02473	JSP*	15, PRCE1	
004352	303700	000006	10	02474	CAILE	14, 6	
004353	265760	006005	11	02475	JSP*	15, PRCE2	
004354	607200	000010	10	02476	TLNN	4, =010	'SKIP IF SL, SA
004355	254000	004342	11	02477	J	PRC4A	
004356	210747	000002	10	02478	MOVN	15, 2(7)	'PICK UP -L
004357	603200	000004	10	02479	TLNE	4, 4	'SKIP IF SL
004360	210747	000003	10	02480	MOVN	15, 3(7)	'PICK UP -A
004361	270740	000015	10	02481	ADD	15, 13	
004362	603740	777777	10	02482	TLNE	15, -1	
004363	265760	006010	11	02483	JSP*	15, PRCE5	
004364	265600	006532	11	02484	JSP	12, 0B	
004365	201040	000040	10	02485	MOVEI	1, 7/ /	
004366	136040	000011	10	02486	IDPB	1, 9	
004367	265600	006403	11	02487	JSP	12, P4	'STACK VALUE
004370	265600	006367	11	02488	JSP	12, P2	
004371	254000	004227	11	02489	J	PRC1	
				02490			
004372	265600	006601	11	02491	JSP	12, IF	
004373	603200	000013	10	02492	TLNE	4, =013	'SKIP IF L, A
004374	265760	006004	11	02493	JSP*	15, PRCE1	
004375	200747	000002	10	02494	MOVE	15, 2(7)	'PICK UP L
004376	603200	000004	10	02495	TLNE	4, 4	'SKIP IF L
004377	200747	000003	10	02496	MOVE	15, 3(7)	'PICK UP A
004400	254000	004364	11	02497	J	PRC4C	
				02498			
				02499		TREAT NUMBER	
				02500			

004401	303700.000006	10	02501	PRC5	CAILE	14, 6		
004402	265760.006004	11	02502		JSP*	15, PRCE1	'SAVE LOC	
004403	560240.000015	10	02503		HRR0	5, 13		
004404	302500.000121	10	02504		CAIE	10, .7/Q/		
004405	254000.004410	11	02505		J	*+3	'SET Q SENTINEL IN L WORD	
004406	563007.000002	10	02506		HRR0S	2(7)		
004407	134500.000013	10	02507		ILDB	10, 11		
004410	306500.000040	10	02508		CAIN	10, .7/ /		
004411	254000.004407	11	02509		J	*-2		
004412	302500.000055	10	02510		CAIE	10, .7/-/	'RESET MINUS SENTINEL	
004413	625240.777777	10	02511		TLZA	5, -1		
004414	134500.000013	10	02512		ILDB	10, 11		
004415	265600.006214	11	02513		JSP	12, SO		
004416	254000.004535	11	02514		J	PRC6	'END	
004417	303700.000006	10	02515		CAILE	14, 6	'NO	
004420	265760.006004	11	02516		JSP*	15, PRCE1	'NAME	
			02517					
			02518	'TREAT DUMP				
			02519					
004421	200140.000015	10	02520		MOVE	3, 13	'SAVE INC OR COUNT	
004422	201100.000001	10	02521		MOVEI	2, 1	'SET DROPOUT INC	
004423	265600.006214	11	02522		JSP	12, SO		
004424	254000.004434	11	02523		J	PRC5X	'END	
004425	303700.000006	10	02524		CAILE	14, 6	'NO	
004426	265760.006004	11	02525		JSP*	15, PRCE1	'NAME	
004427	336100.000003	10	02526		SKIPN	2, 3	'MOVE INC	
004430	265760.006004	11	02527		JSP*	15, PRCE1	'SAVE COUNT	
004431	200140.000015	10	02528		MOVE	3, 13	'SKIP IF NO MINUS	
004432	623240.777777	10	02529		TLZE	5, -1	'NEGATE INC	
004433	213000.000002	10	02530		MOVNS	2	'SAVE FWA	
004434	335200.000005	10	02531	PRC5X	SKIPGE	4, 5		
004435	265760.006004	11	02532		JSP*	15, PRCE1		
004436	265600.006577	11	02533		JSP	12, IFCB	'CHECK	
004437	336000.000003	10	02534		SKIPN	3	'COUNT	
004440	201140.777777	10	02535		MOVEI	3, -1		
004441	331007.000002	10	02536		SKIPL	2(7)	'ADD L	
004442	270247.000002	10	02537		ADD	5, 2(7)		
004443	265600.005540	11	02538	PRC5A	JSP	12, PRCNEM-1		
004444	265760.006011	11	02539		JSP*	15, PRCE6		
004445	265600.006532	11	02540		JSP	12, OB		
004446	306500.000027	10	02541		CAIN	10, =027	'TEST FOR CONTROL W	
004447	265600.006367	11	02542		JSP	12, P2		
004450	200740.000004	10	02543		MOVE	15, 4	'STACK FWA	
004451	265600.006403	11	02544		JSP	12, P4		
004452	200045.000000	10	02545		MOVE	1, (5)		
004453	201500.000001	10	02546		MOVEI	10, 1		
004454	363140.004465	11	02547	PRC5B	SOJLE	3, PRC5C		
004455	606500.000003	10	02548		TRNN	10, 3	'JUMP IF NON-COMPARE IN LAST GROUP OF 4	
004456	321500.004472	11	02549		JUMPL	10, PRC5E	'ADD INC	
004457	270240.000002	10	02550		ADD	5, 2		
004460	265600.005540	11	02551		JSP	12, PRCNEM-1		
004461	254000.004465	11	02552		J	PRC5C		
004462	312045.000000	10	02553		CAME	1, (5)		
004463	661500.400000	10	02554		TLO	10, 1B18	'INDICATE NON-COMPARE	

004464	344500	004454	11	02555		AOJA	10,	PRC5B	
004465	321500	004472	11	02556	PRC5C	JUMPL	10,	PRC5E	'JUMP IF NON-COMPARE
004466	302500	000001	10	02557		CAIE	10,	1	'SKIP IF ONLY ONE NUMBER TO PRINT
004467	364500	004501	11	02558		SOJA	10,	PRC5G	'GET EQUAL COUNT -1
004470	254000	004511	11	02559		J	PRC5H		
004471	364140	004475	11	02560	PRC5D	SOJA	3,	PRC5F	
004472	553000	000012	10	02561	PRC5E	HRRZS	10		
004473	307500	000004	10	02562		CAIG	10,	4	'SKIP IF AT LEAST ONE EQUAL GROUP OF 4
004474	254000	004511	11	02563		J	PRC5H		
004475	602500	000003	10	02564	PRC5F	TRNE	10,	3	
004476	344500	004471	11	02565		AOJA	10,	PRC5D	
004477	201512	777773	10	02566		MOVEI	10,	-5(10)	'GET EQUAL COUNT -1
004500	271140	000004	10	02567		ADDI	3,	4	'ADJUST COUNT
004501	220500	000002	10	02568	PRC5G	IMUL	10,	2	'GET
004502	270200	000012	10	02569		ADD	4,	10	'LWA-1
004503	201540	005607	11	02570		MOVEI	11,	PRCK4	
004504	265600	006353	11	02571		JSP	12,	P1	' - '
004505	200740	000004	10	02572		MOVE	15,	4	
004506	265600	006403	11	02573		JSP	12,	P4	'STACK LWA-1
004507	265600	006354	11	02574		JSP	12,	P1A	' = '
004510	201500	000001	10	02575		MOVEI	10,	1	'SET PRINT COUNT TO 1
004511	200740	000001	10	02576	PRC5H	MOVE	15,	1	
004512	265600	006416	11	02577		JSP	12,	P5	'STACK 1ST NUMBER
004513	270200	000002	10	02578		ADD	4,	2	
004514	200240	000004	10	02579		MOVE	5,	4	
004515	331007	000002	10	02580		SKIPL	2(7)		
004516	270247	000002	10	02581		ADD	5,	2(7)	'ADD L
004517	363500	004525	11	02582		SOJLE	10,	PRC5L	
004520	200745	000000	10	02583	PRC5J	MOVE	15,	(5)	
004521	265600	006416	11	02584		JSP	12,	P5	'STACK REMAINING NUMBERS
004522	270200	000002	10	02585		ADD	4,	2	
004523	270240	000002	10	02586		ADD	5,	2	
004524	367500	004520	11	02587		SOJG	10,	PRC5J	
004525	265600	006367	11	02588	PRC5L	JSP	12,	P2	
004526	336010	000006	10	02589		SKIPN	IBC+2(8)		'SKIP IF INPUT
004527	335010	000005	10	02590		SKIPGE	IBC+1(8)		'SKIP IF NO BREAK
004530	254000	004226	11	02591		J	PRC0		
004531	323140	004227	11	02592		JUMPLE	3,	PRC1	'JUMP IF END OF DUMP
004532	201740	000031	10	02593		MOVEI	15,	=031	'CLOSE ECHO WINDOW
004533	265600	006542	11	02594		JSP	12,	OFE	
004534	254000	004443	11	02595		J	PRC5A		
				02596					
				02597		'TREAT EDIT			
				02598					
004535	335000	000005	10	02599	PRC6	SKIPGE	5		'SKIP IF NO MINUS
004536	265760	006004	11	02600		JSP*	15,	PRCE1	
004537	265600	006601	11	02601		JSP	12,	IF	
004540	331007	000002	10	02602		SKIPL	2(7)		
004541	270247	000002	10	02603		ADD	5,	2(7)	'ADD L
004542	265600	005541	11	02604		JSP	12,	PRCNEM	
004543	265760	006011	11	02605		JSP*	15,	PRCE6	
004544	200107	000003	10	02606		MOVE	2,	3(7)	'PICK UP A
004545	504107	000002	10	02607		HRL	2,	2(7)	'PICK UP L
004546	265600	006532	11	02608		JSP	12,	OB	

004547	201740.	000000	10	02609	PRC6A	MOVEI	15, 0		
004550	200045.	000000	10	02610	XEQDP1	MOVE	1, (5)		
004551	322740.	004556	11	02611	XEQDP2	JUMPE	15, PRC6B	'JUMP IF NO DATA PARITY ERROR	
004552	201740.	000104	10	02612		MOVEI	15, 7/D/		
004553	136740.	000011	10	02613		IDPB	15, 9		
004554	201740.	000120	10	02614		MOVEI	15, 7/P/		
004555	136740.	000011	10	02615		IDPB	15, 9		
004556	265140.	006021	11	02616	PRC6B	JSP	3, P9E		
004557	265760.	006004	11	02617		JSP*	15, PRCE1	'ERROR	
004560	202045.	000000	10	02618		MOVEM	1, (5)	'STORE	
004561	265600.	006601	11	02619		JSP	12, IF	'NO STORE	
004562	325140.	004226	11	02620		JUMPGE	3, PRC0	'JUMP IF NO N,B,R	
004563	603140.	060000	10	02621		TLNE	3, 3B22	'SKIP IF NO B,R	
004564	370740.	000005	10	02622		SOS	15, 5		
004565	607140.	040000	10	02623		TLNN	3, 1B21	'SKIP IF B	
004566	350740.	000005	10	02624		AOS	15, 5		
004567	265600.	005541	11	02625		JSP	12, PRCNEM		
004570	265760.	006011	11	02626		JSP*	15, PRCE6		
004571	265600.	006532	11	02627		JSP	12, OB		
004572	331007.	000002	10	02628		SKIPL	2(7)		
004573	274747.	000002	10	02629		SUB	15, 2(7)		
004574	265600.	006403	11	02630		JSP	12, P4	'STACK LOC	
004575	136740.	000011	10	02631		IDPB	15, 9		
004576	254000.	004547	11	02632		J	PRC6A		
				02633					
				02634	'TREAT CI, DI, CO, DO				
				02635					
004577	265600.	006214	11	02636	PRC7	JSP	12, SO		
004600	265760.	006012	11	02637		JSP*	15, PRCE7	'END	
004601	303700.	000003	10	02638		CAILE	14, 3	'NO	
004602	265760.	006012	11	02639		JSP*	15, PRCE7	'NAME	
004603	303640.	000177	10	02640		CAILE	13, =0177		
004604	265760.	006012	11	02641		JSP*	15, PRCE7		
004605	242640.	000010	10	02642		LSH	13, 8		
004606	661215.	000000	10	02643		TLO	4, (13)	'PUT DEVICE NO. IN COMMAND	
004607	541200.	000001	10	02644		HRRI	4, 1		
004610	627200.	000001	10	02645		TLZN	4, 1	'SKIP IF CO, DO	
004611	254000.	004625	11	02646		J	PRC7A		
004612	200107.	000003	10	02647		MOVE	2, 3(7)	'PICK UP A	
004613	504107.	000002	10	02648		HRL	2, 2(7)	'PICK UP L	
004614	201040.	000000	10	02649		MOVEI	1, 0		
004615	265140.	006027	11	02650		JSP	3, P9EO		
004616	265760.	006005	11	02651		JSP*	15, PRCE2	'ERROR	
004617	335000.	000003	10	02652		SKIPGE	3	'STORE	'SKIP IF NO N
004620	265760.	005005	11	02653		JSP*	15, PRCE2	'NO STORE	
004621	623200.	000002	10	02654		TLZE	4, 2	'SKIP IF NOT CO	
004622	540200.	000001	10	02655		HRR	4, 1		
004623	256000.	000004	10	02656		XCT	4		
004624	254000.	004226	11	02657		J	PRC0		
004625	265600.	006601	11	02658	PRC7A	JSP	12, IF		
004626	256000.	000004	10	02659		XCT	4		
004627	265600.	006532	11	02660		JSP	12, OB		
004630	200740.	000001	10	02661		MOVE	15, 1		
004631	607740.	777777	10	02662		TLNN	15, -1		

004632	254000	004635	11	02663	J	*+3		
004633	265600	006416	11	02664	JSP	12, P5		
004634	254000	004640	11	02665	J	PRC7B		
004635	201040	000040	10	02666	MOVEI	1, 7/ /		
004636	136040	000011	10	02667	IDPB	1, 9		
004637	265600	006403	11	02668	JSP	12, P4		
004640	265600	006367	11	02669	JSP	12, P2		
004641	254000	004227	11	02670	J	PRC1		
				02671				
				02672		'TREAT P		
				02673				
004642	265600	006214	11	02674	PRC8	JSP	12, S0	
004643	265760	006013	11	02675	JSP*	15, PRCE8		'E
004644	254000	004701	11	02676	J	PRC8C		'N
004645	200140	000015	10	02677	MOVE	3, 13		'L
004646	200200	000016	10	02678	MOVE	4, 14		
004647	201040	000001	10	02679	MOVEI	1, 1		
004650	303040	064000	1F	02680	PRC8A	CAILE	1, XPNMAX	
004651	265760	006014	11	02681	JSP*	15, PRCE9		
004652	550101	060000	1F	02682	HRRZ	2, PRCTBL(1)		
004653	322100	004656	11	02683	JUMPE	2, *+3		
004654	316142	000027	10	02684	CAMN	3, XNM1(2)		
004655	312202	000030	10	02685	CAME	4, XNM2(2)		
004656	344040	004650	11	02686	AOJA	1, PRC8A		
004657	265600	006601	11	02687	PRC8B	JSP	12, 1F	
004660	250047	000001	10	02688	EXCH	1, 1(7)		'STORE PR NO.
004661	331740	000001	10	02689	SKIPL	15, 1		'SKIP IF AN OLD PR IS STOPPED
004662	254000	004665	11	02690	J	*+3		
004663	205600	200000	10	02691	MOVSI	12, XS		
004664	412617	000023	10	02692	ANDCAM	12, XSTAT(15)		
004665	265600	006532	11	02693	JSP	12, CB		
004666	201540	005611	11	02694	MOVEI	11, PRCK5		
004667	265600	006353	11	02695	JSP	12, P1		'PR
004670	200747	000001	10	02696	MOVE	15, 1(7)		
004671	265600	006403	11	02697	JSP	12, P4		'STACK PR NO.
004672	265600	006354	11	02698	JSP	12, P1A		'('
004673	200640	000003	10	02699	MOVE	13, 3		
004674	200700	000004	10	02700	MOVE	14, 4		
004675	265600	006374	11	02701	JSP	12, P3		'STACK PR NAME
004676	265600	006354	11	02702	JSP	12, P1A		')'
004677	265600	006367	11	02703	JSP	12, P2		
004700	254000	004227	11	02704	J	PRC1		
				02705				
004701	337040	000015	10	02706	PRC8C	SKIPG	1, 13	
004702	265760	006004	11	02707	JSP*	15, PRCE1		
004703	303040	064000	1F	02708	CAILE	1, XPNMAX		
004704	265760	006014	11	02709	JSP*	15, PRCE9		
004705	550101	060000	1F	02710	HRRZ	2, PRCTBL(1)		
004706	322100	004704	11	02711	JUMPE	2, *-2		
004707	200142	000027	10	02712	MOVE	3, XNM1(2)		
004710	200202	000030	10	02713	MOVE	4, XNM2(2)		
004711	254000	004657	11	02714	J	PRC8B		
				02715				
				02716		'TREAT RQ, WAKE		

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004712 265600.006214 11 02717
004713 265760.006005 11 02718 PRC9 JSP 12, SO
004714 303700.000006 10 02719 JSP* 15, PRCE2 'END
004715 265760.006005 11 02720 CAIE 14, 6 'NO
004716 265600.005552 11 02721 JSP* 15, PRCE2 'NAME
004717 265600.006601 11 02722 JSP 12, PRCH
004720 336707.000001 10 02723 PRC9W JSP 12, IF
004721 265760.006015 11 02724 SKIPN 14, 1(7) 'PICK UP PR NO. OR DB PTR
004722 337000.000016 10 02725 JSP* 15, PRCE10
004723 200716.000022 10 02726 SKIPG 14 'SKIP IF PR NO.
004724 504700.000015 10 02727 MOVE 14, XPRN(14)
004725 302200.004712 11 02728 HRL 14, 13 'LOAD PARAMETER
004726 660700.400000 10 02729 CAIE 4, PRC9 'SKIP IF NOT WAKE
004727 077000.000001 10 02730 TRO 14, 1B18
004730 254000.004226 11 02731 TRAP .R
02732 J PRCO
02733
02734 'TREAT HOLD
02735
004731 265140.005562 11 02736 PRC10 JSP 3, PRCSP
004732 205040.040000 10 02737 MOVSI 1, XH
004733 436046.000023 10 02738 ORM 1, XSTAT(6) 'SET HOLD BIT
004734 254000.004227 11 02739 J PRC1
02740
02741 'TREAT RDY
02742
004735 265140.005562 11 02743 PRC11 JSP 3, PRCSP
004736 200046.000023 10 02744 MOVE 1, XSTAT(6)
004737 405040.000007 10 02745 ANDI 1, 7
004740 305040.000003 10 02746 CAIGE 1, 3 'SKIP IF ERROR STATUS
004741 254000.004745 11 02747 J PRC11A
004742 201040.000000 10 02748 MOVEI 1, 0
004743 542046.000023 10 02749 HRRM 1, XSTAT(6) 'STORE READY STATUS
004744 254000.004227 11 02750 J PRC1
004745 201540.005613 11 02751 PRC11A MOVEI 11, PRCK6
004746 265600.006353 11 02752 JSP 12, P1
004747 265600.006367 11 02753 JSP 12, P2
004750 254000.004227 11 02754 J PRC1
02755
02756 'TREAT GO
02757
004751 265140.005562 11 02758 PRC12 JSP 3, PRCSP
004752 205040.040000 10 02759 MOVSI 1, XH
004753 612046.000023 10 02760 TDNE 1, XSTAT(6) 'SKIP IF HOLD BIT IS OFF
004754 254000.004762 11 02761 J PRC12A
004755 550746.000022 10 02762 HRRZ 15, XPRN(6)
004756 202747.000001 10 02763 MOVEM 15, 1(7) 'STORE PR NO.
004757 205740.200000 10 02764 MOVSI 15, XS
004760 412746.000023 10 02765 ANDCAM 15, XSTAT(6)
004761 254000.004227 11 02766 J PRC1
004762 412046.000023 10 02767 PRC12A ANDCAM 1, XSTAT(6) 'RESET HOLD BIT
004763 201540.005620 11 02768 MOVEI 11, PRCK7
004764 265600.006353 11 02769 JSP 12, P1
004765 265600.006367 11 02770 JSP 12, P2

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004766 254000.004227 11 02771          J          PRC1
02772
02773 'TREAT ST
02774
004767 265140.005562 11 02775 PRC13      JSP          3, PRCSP
004770 201740.000040 10 02776          MOVEI       15, .7/ /
004771 136740.000011 10 02777          IDPB
004772 200146.000023 10 02778 PRC13X     MOVE          3, XSTAT(6)
004773 200740.000003 10 02779          MOVE          15, 3
004774 265600.006431 11 02780          JSP          12, P6          'STACK STATUS
004775 200100.000003 10 02781          MOVE          2, 3
004776 405100.000003 10 02782          ANDI          2, 3
004777 242100.000001 10 02783          LSH           2, 1
005000 201542.005623 11 02784          MOVEI        11, PRCK8(2)
005001 265600.006353 11 02785          JSP          12, P1
005002 306100.000002 10 02786          CAIN          2, 1*2          'SKIP IF NOT RUNNING STATUS
005003 254000.005044 11 02787          J            PRC13F
005004 303100.000004 10 02788          CAILE        2, 2*2          'SKIP IF READY(0) OR WAITING(2)
005005 254000.005034 11 02789          J            PRC13D
005006 200540.005633 11 02790          MOVE          11, PRCK9
005007 201100.040000 10 02791 PRC13A     MOVEI         2, 1B21
005010 201600.005016 11 02792          MOVEI         12, PRC13C
005011 612140.000002 10 02793 PRC13B     TDNE          3, 2
005012 254000.006354 11 02794          J            P1A          'STACK CHARS
005013 134740.000013 10 02795 PRC13G     ILDB          15, 11
005014 302740.000012 10 02796          CAIE          15, .6/*/
005015 254000.005013 11 02797          J            *-2
005016 602100.000010 10 02798 PRC13C     TRNE          2, 1B32          'SKIP IF NOT DONE
005017 254000.005044 11 02799          J            PRC13F
005020 242100.777777 10 02800          LSH           2, -1
005021 606140.000004 10 02801          TRNN          3, 4          'SKIP IF ERROR STATUS
005022 606100.000040 10 02802          TRNN          2, 1B30          'SKIP IF AT BLZ BITS
005023 254000.005011 11 02803          J            PRC13B
005024 616140.000002 10 02804          TDNN          3, 2          'SKIP IF L OR Z
005025 254000.005016 11 02805          J            PRC13C
005026 201740.000114 10 02806          MOVEI         15, .7/L/
005027 242100.777777 10 02807          LSH           2, -1
005030 612140.000002 10 02808          TDNE          3, 2          'SKIP IF L
005031 201740.000132 10 02809          MOVEI         15, .7/Z/
005032 136740.000011 10 02810          IDPB          15, 9
005033 254000.005013 11 02811          J            PRC13G
02812
005034 200540.005637 11 02813 PRC13D     MOVE          11, PRCK10
005035 602140.000004 10 02814          TRNE          3, 4          'SKIP IF NOT MULTIPLE ERROR
005036 254000.005007 11 02815          J            PRC13A
005037 200100.000003 10 02816          MOVE          2, 3
005040 242100.777775 10 02817          LSH           2, -3
005041 405100.000777 10 02818          ANDI          2, =0777          'GET ERROR NO.
005042 200542.054000 1F 02819          MOVE          11, PRERE(2)
005043 265600.006354 11 02820          JSP          12, P1A
005044 265600.006367 11 02821 PRC13F     JSP          12, P2
005045 254000.004227 11 02822          J            PRC1
02823
02824 'TREAT PC,EP

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005046	265140.005562	11	02825		JSP	3,	PRCSP		
005047	554200.000004	10	02826	PRC14	HLRZ	4,	4		
005050	270300.000004	10	02827		ADD	6,	4		
005051	200046.000000	10	02828		MOVE	1,	(6)		'A
005052	200107.000003	10	02829		MOVE	2,	3(7)		'L
005053	504107.000002	10	02830		HRL	2,	2(7)		
005054	265140.006021	11	02831		JSP	3,	P9E		'ERROR
005055	265760.006004	11	02832		JSP*	15,	PRCE1		'STORE
005056	325140.005061	11	02833		JUMPGE	3,	*+3		JUMP IF NO N
005057	325140.004226	11	02834		JUMPGE	3,	PRCO		JUMP IF NO N
005060	265760.006004	11	02835		JSP*	15,	PRCE1		
005061	202046.000000	10	02836		MOVEM	1,	(6)		
005062	254000.004226	11	02837		J		PRCO		
			02838						
			02839						
			02840	TREAT XN					
			02841						
005063	201240.000000	10	02842	PRC15	MOVE1	5,	0		
005064	201700.000000	10	02843	PRC15A	MOVE1	14,	0		
005065	245640.000006	10	02844		ROTC	13,	6		
005066	301700.000020	10	02845		CAIL	14,	.6/0/		
005067	303700.000027	10	02846		CAILE	14,	.6/7/		
005070	265760.006004	11	02847		JSP*	15,	PRCE1		
005071	275700.000020	10	02848		SUB1	14,	16		
005072	242240.000003	10	02849		LSH	5,	3		
005073	434240.000016	10	02850		IOR	5,	14		
005074	326640.005064	11	02851		JUMPN	13,	PRC15A		
005075	311240.000004	10	02852		CAML	5,	4		
005076	265760.006004	11	02853		JSP*	15,	PRCE1		
005077	265140.005562	11	02854	PRC15B	JSP	3,	PRCSP		'POINT TO REGISTER
005100	270300.000005	10	02855		ADD	6,	5		
005101	200046.000000	10	02856		MOVE	1,	(6)		'A
005102	200107.000003	10	02857		MOVE	2,	3(7)		'L
005103	504107.000002	10	02858		HRL	2,	2(7)		
005104	265140.006021	11	02859		JSP	3,	P9E		'ERROR
005105	265760.006004	11	02860		JSP*	15,	PRCE1		'STORE
005106	202046.000000	10	02861		MOVEM	1,	(6)		'NO STORE
005107	325140.004226	11	02862		JUMPGE	3,	PRCO		JUMP IF NO N
005110	274300.000005	10	02863		SUB	6,	5		'SKIP IF NO B
005111	603140.040000	10	02864		TLNE	3,	1B21		'SKIP IF B,R
005112	370000.000005	10	02865		SOS	5,			
005113	607140.060000	10	02866		TLNN	3,	3B22		
005114	350000.000005	10	02867		AOS	5,			
005115	331000.000005	10	02868		SKIPL	5,			
005116	311240.000004	10	02869		CAML	5,	4		
005117	265760.006011	11	02870		JSP*	15,	PRCE6		
005120	265600.006532	11	02871		JSP	12,	OB		
005121	265140.005150	11	02872		JSP	3,	PRC16S		'STACK XN
005122	254000.005100	11	02873		J		PRC15B		
			02874						
			02875	TREAT X					
			02876						
005123	554200.000004	10	02877	PRC16	HLRZ	4,	4		
005124	201240.000000	10	02878		MOVE1	5,	0		

005125	265140	005562	11	02879	JSP	3, PRCSP	
005126	306500	000027	10	02880	CAIN	10, =027	'TEST FOR CONTROL W
005127	265600	006367	11	02881	JSP	12, P2	
005130	265140	005150	11	02882	JSP	3, PRC16A	'STACK XN
005131	200746	000000	10	02883	MOVE	15, (6)	
005132	265600	006416	11	02884	JSP	12, P5	
005133	350000	000005	10	02885	AOS	5	
005134	602240	000003	10	02886	TRNE	5, 3	
005135	344300	005131	11	02887	AOJA	6, *-4	
005136	265600	006367	11	02888	JSP	12, P2	
005137	336010	000006	10	02889	SKIPN	IBC+2(8)	'SKIP IF INPUT
005140	335010	000005	10	02890	SKIPGE	IBC+1(8)	'SKIP IF NO BREAK
005141	254000	004226	11	02891	J		
005142	311240	000004	10	02892	CAML	5, 4	
005143	254000	004227	11	02893	J		
005144	201740	000031	10	02894	MOVEI	15, =031	
005145	265600	006542	11	02895	JSP	12, OFE	
005146	265600	006532	11	02896	JSP	12, OB	
005147	344300	005130	11	02897	AOJA	6, PRC16A	
				02898			
005150	201740	000130	10	02899	PRC16S	MOVEI	15, .7/X/
005151	136740	000011	10	02900	IDPB	15, 9	
005152	200740	000005	10	02901	MOVE	15, 5	
005153	265600	006403	11	02902	JSP	12, P4	
005154	305240	000010	10	02903	CAIGE	5, 8	
005155	136740	000011	10	02904	IDPB	15, 9	
005156	254003	000000	10	02905	J	(3)	
				02906			
				02907	'TREAT BP		
				02908			
005157	265600	006214	11	02909	PRC17	JSP	12, SO
005160	265760	006005	11	02910	JSP*	15, PRCE2	'END
005161	254000	005163	11	02911	J	*+2	'NO
005162	254000	005253	11	02912	J	PRC17S	'NAME
005163	200240	000015	10	02913	MOVE	5, 13	
005164	270247	000002	10	02914	ADD	5, 2(7)	'ADD L
005165	265600	005541	11	02915	JSP	12, PRCNEM	
005166	265760	006011	11	02916	JSP*	15, PRCE6	
005167	265140	005562	11	02917	JSP	3, PRCSP	
005170	200205	000000	10	02918	MOVE	4, (5)	'PICK UP BP INSTRUCTION
005171	542246	000031	10	02919	PRC17R	HRRM	5, XTRC(6)
005172	205040	100000	10	02920	MOVSI	1, XT	'STORE BP LOC
005173	436046	000023	10	02921	ORM	1, XSTAT(6)	
005174	205040	200000	10	02922	MOVSI	1, XS	
005175	412046	000023	10	02923	ANDCAM	1, XSTAT(6)	
005176	200740	000004	10	02924	MOVE	15, 4	
005177	265600	006416	11	02925	JSP	12, P5	'STACK INSTRUCTION
005200	265600	006367	11	02926	JSP	12, P2	
005201	201740	000031	10	02927	MOVEI	15, =031	
005202	265600	006542	11	02928	JSP	12, OFE	
005203	205040	200000	10	02929	PRC17A	MOVSI	1, XS
005204	612046	000023	10	02930	TDNE	1, XSTAT(6)	'SKIP IF PR IS NOT STOPPED
005205	254000	005216	11	02931	J	PRC17C	
005206	336010	000006	10	02932	SKIPN	IBC+2(8)	'SKIP IF INPUT

005207	335010.000005	10	02933	SKIPGE	IBC+1(8)	'SKIP IF NO BREAK
005210	254000.005214	11	02934	J	PRC17B	
005211	205740.000020	10	02935	MOVSI	15, 1024/64	
005212	077000.000210	10	02936	TRAP	.AT	
005213	254000.005203	11	02937	J	PRC17A	
005214	205040.200000	10	02938	MOVSI	1, XS	'SET STOP BIT
005215	436046.000023	10	02939	IORM	1, XSTAT(6)	
005216	200140.000005	10	02940	MOVE	3, 5	
005217	550046.000020	10	02941	HRRZ	1, 16(6)	
005220	306047.000004	10	02942	CAIN	1, 4(7)	
005221	542146.000020	10	02943	HRRM	3, 16(6)	
005222	350000.000003	10	02944	AOS	3	
005223	306047.000005	10	02945	CAIN	1, 5(7)	
005224	542146.000020	10	02946	HRRM	3, 16(6)	
005225	350000.000003	10	02947	AOS	3	
005226	306047.000006	10	02948	CAIN	1, 6(7)	
005227	542146.000020	10	02949	HRRM	3, 16(6)	
005230	332010.000006	10	02950	SKIPE	IBC+2(8)	
005231	563010.000006	10	02951	HRRS	IBC+2(8)	
005232	205040.100000	10	02952	MOVSI	1, XT	'RESET TRACE BIT
005233	412046.000023	10	02953	ANDCAM	1, XSTAT(6)	
005234	265600.006532	11	02954	JSP	12, OB	
005235	370046.000020	10	02955	SOS	1, 16(6)	'SKIP IF WRONG PC VALUE
005236	306241.000000	10	02956	CAIN	5, (1)	
005237	254000.005242	11	02957	J	*+3	
005240	350006.000020	10	02958	AOS	16(6)	'JUMP TO PRINT STATUS
005241	254000.004772	11	02959	J	PRC13X	
005242	550046.000023	10	02960	HRRZ	1, XSTAT(6)	'SKIP IF 'ILLEGAL LH OP'
005243	302040.000003	10	02961	CAIE	1, 3	
005244	254000.005240	11	02962	J	*-4	
005245	201040.000000	10	02963	MOVEI	1, 0	'STORE READY STATUS
005246	542046.000023	10	02964	HRRM	1, XSTAT(6)	
005247	201540.005652	11	02965	MOVEI	11, PRCK11	'BP.'
005250	265600.006353	11	02966	JSP	12, P1	
005251	265600.006367	11	02967	JSP	12, P2	
005252	254000.004227	11	02968	J	PRC1	
005253	207000.000015	10	02969	J	PRC1A	
005254	302640.630000	10	02970	MOVSS	13	
005255	265760.006005	11	02971	CAIE	13, .6/S /	
005256	265140.005562	11	02972	JSP*	15, PRCE2	
005257	550246.000020	10	02973	JSP	3, PRCS	
005260	265600.005541	11	02974	HRRZ	5, 16(6)	
005261	265760.006011	11	02975	JSP	12, PRCNEM	
005262	200205.000000	10	02976	JSP*	15, PRCE6	'PICK UP BP INSTRUCTION
005263	554040.000004	10	02977	MOVE	4, (5)	
005264	242040.777767	10	02978	HLRZ	1, 4	
005265	302040.000266	10	02979	LSH	1, -9	
005266	306040.000265	10	02980	CAIE	1, =0266	
005267	254000.005306	11	02981	CAIN	1, =0265	
005270	302040.000264	10	02982	J	PRC17T	
005271	306040.000260	10	02983	CAIE	1, =0264	
005272	254000.005306	11	02984	CAIN	1, =0260	'SKIP IF LEGAL DEVICE
005273	306040.000256	10	02985	J	PRC17T	
			02986	CAIN	1, =0256	


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005274 254000.005306 11 02987 J PRC17T
005275 202207.000004 10 02988 MOVEM 4, 4(7)
005276 205040.254000 10 02989 MOVSI 1, =0254000
005277 541045.000001 10 02990 HRR1 1, 1(5)
005300 202047.000005 10 02991 MOVEM 1, 5(7)
005301 541045.000002 10 02992 HRR1 1, 2(5)
005302 202047.000006 10 02993 MOVEM 1, 6(7)
005303 201047.000004 10 02994 MOVEI 1, 4(7)
005304 542046.000020 10 02995 HRRM 1, 16(6)
005305 254000.005171 11 02996 J PRC17R
005306 201540.005312 11 02997 PRC17T MOVEI 11, PRC17K
005307 265600.006353 11 02998 JSP 12, P1
005310 265600.006367 11 02999 JSP 12, P2
005311 254000.004227 11 03000 J PRC1
005312 004341.560764 10 03001 PRC17K BYT (.6)/ CAN'T BP THIS INSTRUCTION*/
005313 004260.006450 10
005314 516300.515663 10
005315 646265.436451 10
005316 575612.000000 10

03002 /
03003 /TREAT CLK
03004 /
005317 265600.006601 11 03005 PRC18 JSP 12, IF
005320 265600.006532 11 03006 JSP 12, OB
005321 777440.000002 10 03007 DATAI $RTC2, 2
005322 777040.000003 10 03008 DATAI $RTC1, 3
005323 334740.005324 11 03009 SKIPA 15, x+1
005324 266661.555600 10 03010 OCT 266661555600
005325 201040.000040 10 03011 PRC18A MOVEI 1, 77 /
005326 325740.005333 11 03012 JUMPGE 15, PRC18B
005327 246040.000004 10 03013 LSHC 1, 4
005330 271040.000060 10 03014 ADDI 1, 48
005331 242100.777774 10 03015 LSH 2, -4
005332 246100.000004 10 03016 LSHC 2, 4
005333 136040.000011 10 03017 PRC18B IDPB 1, 9
005334 242740.000001 10 03018 LSH 15, 1
005335 326740.005325 11 03019 JUMPN 15, PRC18A
005336 265600.006367 11 03020 JSP 12, P2
005337 254000.004227 11 03021 J PRC1
03022 /
03023 /TREAT CH
03024 /
005340 265600.006214 11 03025 PRC19 JSP 12, S0
005341 265760.006004 11 03026 JSP* 15, PRCE1 'E
005342 302700.000001 10 03027 CAIE 14, 1 'N
005343 265760.006004 11 03028 JSP* 15, PRCE1 'L
005344 265600.006577 11 03029 JSP 12, IFCB
005345 334100.005346 11 03030 SKIPA 2, x+1
005346 700240.000003 10 03031 CONI 0, 3
005347 201040.000000 10 03032 MOVEI 1, 0
005350 201300.014000 1F 03033 MOVEI 6, SYSDEV
005351 200246.000200 10 03034 MOVE 5, 128(6)
005352 602240.000001 10 03035 PRC19A TRNE 5, 1 'SKIP IF LEGAL DEVICE
005353 254000.005413 11 03036 J PRC19B

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005354	256000	000002	10	03037	XCT	2	
005355	200740	000003	10	03038	MOVE	15, 3	
005356	405740	000007	10	03039	ANDI	15, 7	
005357	322740	005413	11	03040	JUMPE	15, PRC19B	
005360	312740	000015	10	03041	CAME	15, 13	
005361	326640	005413	11	03042	JUMPN	13, PRC19B	
005362	265600	006532	11	03043	JSP	12, 0B	
005363	524740	000001	10	03044	HRL0	15, 1	
005364	242740	000011	10	03045	LSH	15, 9	
005365	201700	000006	10	03046	MOVEI	14, 6	
005366	246700	000003	10	03047	LSHC	14, 3	
005367	136700	000011	10	03048	IDPB	14, 9	
005370	602740	777777	10	03049	TRNE	15, -1	
005371	254000	005365	11	03050	J	*-4	
005372	201740	000040	10	03051	MOVEI	15, 7/ /	
005373	136740	000011	10	03052	IDPB	15, 9	
005374	200741	014000	1F	03053	MOVE	15, SYSDEV(1)	
005375	201600	000007	10	03054	MOVEI	12, 7	
005376	201700	000000	10	03055	MOVEI	14, 0	
005377	246700	000006	10	03056	LSHC	14, 6	
005400	271700	000040	10	03057	ADDI	14, 32	
005401	136700	000011	10	03058	IDPB	14, 9	
005402	367600	005376	11	03059	SOJG	12, *-4	
005403	200740	000003	10	03060	MOVE	15, 3	
005404	607740	777777	10	03061	TLNN	15, -1	
005405	254000	005410	11	03062	J	*+3	
005406	265600	006421	11	03063	JSP	12, P5B	
005407	254000	005411	11	03064	J	*+2	
005410	265600	006431	11	03065	JSP	12, P6	
005411	265600	006367	11	03066	JSP	12, P2	
005412	265600	006541	11	03067	JSP	12, 0F	
005413	270100	005423	11	03068	ADD	2, PRC19C	
005414	242240	777777	10	03069	LSH	5, -1	
005415	350000	000001	10	03070	AGS	1, 1	
005416	602040	000037	10	03071	TRNE	1, =037	
005417	254000	005352	11	03072	J	PRC19A	
005420	305040	000200	10	03073	CAIGE	1, 128	
005421	344300	005351	11	03074	AOJA	6, PRC19A-1	
005422	254000	004226	11	03075	J	PRC0	
005423	000400	000000	10	03076	EXP	1B9	
				03077			
				03078	TREAT STAT		
				03079			
005424	265600	006577	11	03080	JSP	12, IFCB	
005425	201300	000001	10	03081	MOVEI	6, 1	
005426	200106	060000	1F	03082	MOVE	2, PRCTBL(6)	
005427	606100	777777	10	03083	TRNN	2, -1	
005430	344300	005463	11	03084	AOJA	6, PRC20D	
005431	200042	000023	10	03085	MOVE	1, XSTAT(2)	
005432	603040	240000	10	03086	TLNE	1, XH+XS	
005433	254000	005457	11	03087	J	PRC20C	
005434	405040	000003	10	03088	ANDI	1, 3	
005435	302040	000003	10	03089	CAIE	1, 3	
005436	344300	005463	11	03090	AOJA	6, PRC20D	

END
NO
NAME

STONE C
STONE A

005437	201140.	005466	11	03091		MOVEI	3,	PRC21		
005440	265600.	006532	11	03092	PRC20B	JSP	12,	OB		
005441	201540.	005611	11	03093		MOVEI	11,	PRCK5		
005442	265600.	006353	11	03094		JSP	12,	P1		
005443	200740.	000006	10	03095		MOVE	15,	6		
005444	265600.	006403	11	03096		JSP	12,	P4		
005445	265600.	006354	11	03097		JSP	12,	P1A		
005446	200642.	000027	10	03098		MOVE	13,	XNM1(2)		
005447	200702.	000030	10	03099		MOVE	14,	XNM2(2)		
005450	265600.	006374	11	03100		JSP	12,	P3		
005451	265600.	006354	11	03101		JSP	12,	P1A		
005452	200540.	000003	10	03102		MOVE	11,	3		
005453	265600.	006353	11	03103		JSP	12,	P1		
005454	265600.	006367	11	03104		JSP	12,	P2		
005455	265600.	006541	11	03105		JSP	12,	OF		
005456	344300.	005463	11	03106		AOJA	6,	PRC20D		
005457	201140.	005470	11	03107	PRC20C	MOVEI	3,	PRC22		
005460	603040.	040000	10	03108		TLNE	1,	XH		
005461	201140.	005472	11	03109		MOVEI	3,	PRC23		
005462	254000.	005440	11	03110		J		PRC20B		
005463	307300.	064000	1F	03111	PRC20D	CAIG	6,	XPNMAX		
005464	254000.	005426	11	03112		J		PRC20A		
005465	254000.	004226	11	03113		J		PRC0		
005466	005156.	004562	10	03114	PRC21	BYT (.6)/		IN ERROR*/		
005467	625762.	120000	10							
005470	006364.	576060	10	03115	PRC22	BYT (.6)/		STOPPED*/		
005471	454412.	000000	10							
005472	005756.	005057	10	03116	PRC23	BYT (.6)/		ON HOLD*/		
005473	544412.	000000	10							
				03117						
				03118		TREAT LOC				
				03119						
005474	265600.	006214	11	03120	PRC25	JSP	12,	SO		
005475	265760.	006005	11	03121		JSP*	15,	PRCE2		'END
005476	303700.	000006	10	03122		CAILE	14,	6		'NO
005477	265760.	006005	11	03123		JSP*	15,	PRCE2		'NAME
005500	265600.	006601	11	03124		JSP	12,	IF		
005501	200040.	010000	1F	03125		MOVE	1,	SYSNC		
005502	550101.	000000	10	03126		HRRZ	2,	(1)		
005503	271040.	000003	10	03127		ADDI	1,	3		
005504	322100.	005502	11	03128		JUMPE	2,	*-2		
005505	200040.	000000	1F	03129		MOVE	1,	SYSRF		
005506	550141.	000000	10	03130		HRRZ	3,	(1)		
005507	311640.	000003	10	03131		CAML	13,	3		
005510	311640.	000002	10	03132		CAML	13,	2		
005511	265760.	006007	11	03133		JSP*	15,	PRCE4		
005512	200100.	000003	10	03134	PRC25A	MOVE	2,	3		
005513	271040.	000002	10	03135		ADDI	1,	2		
005514	252040.	005520	11	03136		AOBJP	1,	*+4		
005515	550141.	000000	10	03137		HRRZ	3,	(1)		
005516	311640.	000003	10	03138		CAML	13,	3		
005517	254000.	005512	11	03139		J		PRC25A		
005520	202107.	000002	10	03140		MOVEM	2,	2(7)		'STORE L
005521	202107.	000003	10	03141		MOVEM	2,	3(7)		'STORE A

005522	274640	000002	10	03142
005523	265600	006532	11	03143
005524	201740	000040	10	03144
005525	136740	000011	10	03145
005526	200740	000015	10	03146
005527	265600	006403	11	03147
005530	201540	005537	11	03148
005531	265600	006353	11	03149
005532	200641	777776	10	03150
005533	200701	777777	10	03151
005534	265600	006374	11	03152
005535	265600	006367	11	03153
005536	254000	004227	11	03154
005537	005156	001200	10	03155

PRC25K

SUB 13, 2
JSP 12, 0B
MOVEI 15, 7 / /
IDPB 15, 9
MOVE 15, 13
JSP 12, P4
MOVEI 11, PRC25K
JSP 12, P1
MOVE 13, -2(1)
MOVE 14, -1(1)
JSP 12, P3
JSP 12, P2
J PRC1
BYT (,6) / IN */

ERRORS SHOWN
LAST OF THIS PAGE

'SKIP IF PR IS PR
'EXIT IF PR IS STOPPED
'PR IS SELF
'NO OS PTE
'PR IS UNAVAILABLE
'STORE OS PTE
'PR IS NOT IN CORRECT STATE
'PR IS NOT IN CORRECT STATE


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03156 SKP
03157
03158 TEST FOR NEM (5,12)
03159
005540 625240.777777 10 03160
005541 607240.777777 10 03161 PRCNEM TLZA 5, -1
005542 307240.000017 10 03162 TLNN 5, -1
005543 254014.000000 10 03163 CAIG 5, 15
005544 241240.777762 10 03164 J (12) 'ERROR EXIT
005545 332005.050000 1F 03165 ROT 5, -14
005546 350000.000014 10 03166 SKIPE 00BOX(5) 'SKIP IF NO CORE
005547 241240.000016 10 03167 AOS 12
005550 254014.000000 10 03168 ROT 5, 14
03169 J (12)
005551 134500.000013 10 03170
005552 306500.000040 10 03171 PRCH ILDB 10, 11
005553 254000.005551 11 03172 CAIN 10, .7/ /
005554 306500.000114 10 03173 J *-2
005555 270647.000002 10 03174 CAIN 10, .7/L/
005556 306500.000101 10 03175 ADD 13, 2(7) 'L
005557 270647.000003 10 03176 CAIN 10, .7/A/
005560 553000.000015 10 03177 ADD 13, 3(7) 'A
005561 254014.000000 10 03178 HRRZS 13
03179 J (12)
005562 265600.006577 11 03180 PRCSP JSP 12, 1FCB
005563 336307.000001 10 03181 SKIPN 6, 1(7) 'SKIP IF PR
005564 265760.006015 11 03182 JSP* 15, PRCE10
005565 265600.006532 11 03183 JSP 12, OB
005566 321303.000000 10 03184 JUMPL 6, (3) 'EXIT IF PR IS STOPPED
005567 200740.034000 1F 03185 MOVE 15, 00ME
005570 316740.000006 10 03186 CAMN 15, 6
005571 265760.006016 11 03187 JSP* 15, PRCE11 'PR IS SELF
005572 560306.060000 1F 03188 HRRO 6, PRCTBL(6)
005573 606300.777777 10 03189 TRNN 6, -1
005574 265760.006017 11 03190 JSP* 15, PRCE12 'NO DB PTR
005575 200746.000023 10 03191 MOVE 15, XSTAT(6)
005576 603740.300000 10 03192 TLNE 15, XS+XT
005577 265760.006020 11 03193 JSP* 15, PRCE13 'PR IS UNAVAILABLE
005600 205740.200000 10 03194 MOVSI 15, XS
005601 436746.000023 10 03195 ORM 15, XSTAT(6)
005602 202307.000001 10 03196 MOVEM 6, 1(7) 'STORE DB PTR
005603 254003.000000 10 03197 J (3)
03198
005604 540035.001200 10 03199 PRCK1 EXP .6/L == * /
005605 704561.074412 10 03200 PRCK2 EXP .6/XEQ'D*/
005606 000003.000003 10 03201 PRCK3 XW PROCP, PROCP
005607 001500.120035 10 03202 PRCK4 BYT (.6)/ - * ==*/
005610 120000.000000 10
005611 606200.120010 10 03203 PRCK5 BYT (.6)/PR * (*)*/
005612 121112.000000 10
005613 606200.516300 10 03204 PRCK6 BYT (.6)/PR IS NOT IN ERROR STATUS*/
005614 565764.005156 10
005615 004562.625762 10
005616 006364.416465 10

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005617	631200	000000	10						
005620	505754	440042	10	03205	PRCK7	BYT	(.6)/HOLD BIT RESET*/		
005621	516400	624563	10						
005622	456412	000000	10						
005623	106245	414471	10	03206	PRCK8	BYT	(.6)/(READY) * / '0		
005624	110012	000000	10						
005625	106265	565651	10	03207		BYT	(.6)/(RUNNING)* / '1		
005626	564711	120000	10						
005627	106741	516451	10	03208		BYT	(.6)/(WAITING) * / '2		
005630	564711	001200	10						
005631	104562	625762	10	03209		BYT	(.6)/(ERROR) * / '3		
005632	110012	000000	10						
005633	440600	005634	11	03210	PRCK9	BYP	6, *+1, 36		
005634	001212	121212	10	03211		BYT	(.6)/ *****E**A*P*B*T*/		
005635	451212	411260	10						
005636	124212	641200	10						
005637	440600	005640	11	03212	PRCK10	BYP	6, *+1, 36		
005640	006044	541200	10	03213		BYT	(.6)/ PDL* TO* ABK* MEP* NEM** PO* PO* FOV* DPAR* APAR* ADV*/		
005641	645712	004142	10						
005642	531200	554560	10						
005643	120056	455512	10						
005644	120060	571200	10						
005645	605712	004657	10						
005646	661200	446041	10						
005647	621200	416041	10						
005650	621200	415766	10						
005651	120000	000000	10						
005652	426001	120000	10	03214	PRCK11	BYT	(.6)/BP=241*/		
005653	000000	000000	1F	03215	PRCT	XW	SYSRF	'0	
005654	000000	004000	1F	03216		XW	SYSEP	'1	
005655	000000	010000	1F	03217		XW	SYSNC	'2	
				03218					
005656	704561	000000	10	03219	PRCT1	EXP	.6/XEQ	/	
005657	540000	000000	10	03220		EXP	.6/L	/	
005660	544500	000000	10	03221		EXP	.6/LE	/	
005661	544300	000000	10	03222		EXP	.6/LC	/	
005662	410000	000000	10	03223		EXP	.6/A	/	
005663	414500	000000	10	03224		EXP	.6/AE	/	
005664	414300	000000	10	03225		EXP	.6/AC	/	
005665	635400	000000	10	03226		EXP	.6/SL	/	
005666	634100	000000	10	03227		EXP	.6/SA	/	
005667	435100	000000	10	03228		EXP	.6/CI	/	
005670	445100	000000	10	03229		EXP	.6/DI	/	
005671	435700	000000	10	03230		EXP	.6/CO	/	
005672	445700	000000	10	03231		EXP	.6/DO	/	
005673	435000	000000	10	03232		EXP	.6/CH	/	
005674	636441	640000	10	03233		EXP	.6/STAT	/	
005675	435453	000000	10	03234		EXP	.6/CLK	/	
005676	600000	000000	10	03235		EXP	.6/P	/	
005677	626100	000000	10	03236		EXP	.6/RQ	/	
005700	674153	450000	10	03237		EXP	.6/WAKE	/	
005701	505754	440000	10	03238		EXP	.6/HOLD	/	
005702	624471	000000	10	03239		EXP	.6/RDY	/	
005703	475700	000000	10	03240		EXP	.6/GO	/	

005704	636400	000000	10	03241	EXP	.6/ST	//	
005705	604300	000000	10	03242	EXP	.6/PC	//	
005706	456000	000000	10	03243	EXP	.6/EP	//	
005707	700000	000000	10	03244	EXP	.6/X	//	
005710	426000	000000	10	03245	EXP	.6/BP	//	
005711	545743	000000	10	03246	EXP	.6/LOC	//	
005712	000000	004274	11	03247	XW	0, PRC3		'XEQ
005713	000000	004315	11	03248	XW	0, PRC4		'L
005714	000001	004315	11	03249	XW	1, PRC4		'LE
005715	000002	004315	11	03250	XW	2, PRC4		'LC
005716	000004	004315	11	03251	XW	4, PRC4		'A
005717	000005	004315	11	03252	XW	5, PRC4		'AE
005720	000006	004315	11	03253	XW	6, PRC4		'AC
005721	000010	004315	11	03254	XW	=010, PRC4		'SL
005722	000014	004315	11	03255	XW	=014, PRC4		'SA
005723	700240	004577	11	03256	CONI	, PRC7		'CI
005724	700040	004577	11	03257	DATAI	, PRC7		'DI
005725	700203	004577	11	03258	XW	=0700203, PRC7		'CO
005726	700141	004577	11	03259	XW	=0700141, PRC7		'DO
005727	000000	005340	11	03260	XW	PRC19		'CH
005730	000000	005424	11	03261	XW	PRC20		'STAT
005731	000000	005317	11	03262	XW	PRC18		'CLK
005732	000000	004642	11	03263	XW	PRC8		'P
005733	000000	004712	11	03264	XW	PRC9		'RQ
005734	000000	004717	11	03265	XW	PRC9W		'WAKE
005735	000000	004731	11	03266	XW	PRC10		'HOLD
005736	000000	004735	11	03267	XW	PRC11		'RDY
005737	000000	004751	11	03268	XW	PRC12		'GO
005740	000000	004767	11	03269	XW	PRC13		'ST
005741	000020	005046	11	03270	XW	16, PRC14		'PC
005742	000025	005046	11	03271	XW	XEPT, PRC14		'EP
005743	000020	005123	11	03272	XW	16, PRC16		'X
005744	000000	005157	11	03273	XW	PRC17		'BP
005745	000000	005474	11	03274	XW	PRC25		'LCC

005746	200757	777777	10	03275	SKP			
005747	510557	000000	10	03276	PRCE	MOVE	15, -1(15)	
005750	241540	000007	10	03277		HLLZ	11, (15)	
005751	270540	005757	11	03278		ROT	11, 7	
005752	265600	006532	11	03279		ADD	11, PRCEK	
005753	265600	006354	11	03280		JSP	12, OB	
005754	265600	006367	11	03281		JSP	12, P1A	
005755	200600	000000	10	03282		JSP	12, P2	
005756	254014	000000	10	03283		MOVE	12, LOC	
				03284		J	(12)	
				03285				
005757	060600	005760	11	03286	PRCEK	BYP	6, *+1, 6	
005760	664154	654504	10	03287		EXP	.6/VALUE\$/	'0
005761	565700	644142	10	03288		EXP	.6/NO TAB/	'1
005762	544512	576645	10	03289		EXP	.6/LE*OVE/	'2
005763	624654	576712	10	03290		EXP	.6/RFLOW*/	'3
005764	655644	454651	10	03291		EXP	.6/UNDEF1/	'4
005765	564544	120004	10	03292		EXP	.6/NED* \$/	'5
005766	564555	124445	10	03293		EXP	.6/NEM*DE/	'6
005767	665143	450403	10	03294		EXP	.6/VICES#/	'7
005770	005762	005641	10	03295		EXP	.6/ OR NA/	'8
005771	554504	565700	10	03296		EXP	.6/ME\$NO /	'9
005772	636543	500060	10	03297		EXP	.6/SUCH P/	'10
005773	621267	505143	10	03298		EXP	.6/R*WHIC/	'11
005774	500060	620456	10	03299		EXP	.6/H PR\$N/	'12
005775	606200	516300	10	03300		EXP	.6/PR IS /	'13
005776	634554	461256	10	03301		EXP	.6/SELF*N/	'14
005777	570044	420060	10	03302		EXP	.6/O DB P/	'15
006000	646212	606200	10	03303		EXP	.6/TR*PR /	'16
006001	516300	655641	10	03304		EXP	.6/IS UNA/	'17
006002	664151	544142	10	03305		EXP	.6/VA!LAB/	'18
006003	544512	000000	10	03306		EXP	.6/LE* /	'19
				03307				
006004	024000	005746	11	03308	PRCE1	EXP	05B6+00B12+PRCE	'QM
006005	001700	005746	11	03309	PRCE2	EXP	00B6+30B12+PRCE	'VALUE
006006	005700	005746	11	03310	PRCE3	EXP	01B6+30B12+PRCE	'NO TABLE
006007	021700	005746	11	03311	PRCE4	EXP	04B6+30B12+PRCE	'UNDEFINED
006010	010600	005746	11	03312	PRCE5	EXP	02B6+12B12+PRCE	'OVERFLOW
006011	031700	005746	11	03313	PRCE6	EXP	06B6+30B12+PRCE	'NEM
006012	030300	005746	11	03314	PRCE7	EXP	06B6+06B12+PRCE	'DEVICE
006013	034000	005746	11	03315	PRCE8	EXP	07B6+00B12+PRCE	'# OR NAME
006014	044600	005746	11	03316	PRCE9	EXP	09B6+12B12+PRCE	'NO SUCH PR
006015	055100	005746	11	03317	PRCE10	EXP	11B6+18B12+PRCE	'WHICH PR
006016	065700	005746	11	03318	PRCE11	EXP	13B6+30B12+PRCE	'PR IS SELF
006017	070000	005746	11	03319	PRCE12	EXP	14B6+00B12+PRCE	'NO DB PTR
006020	100600	005746	11	03320	PRCE13	EXP	16B6+12B12+PRCE	'PR IS UNAVAILABLE


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03321 SKP
03322 'TREAT EDIT INPUT (1,2,3,8,9,10,11,12,13,14,15)
03323 '
03324 ' ENTER WITH - X1 - NUMBER
03325 ' X2 - L, A
03326 '
03327 ' CALLING SEQ - JSP 3, P9E
03328 ' XXX '0 ERROR
03329 ' XXX '1 STORE X3 IS NEGATIVE IF N
03330 ' XXX '2 NO STORE X3 IS NEGATIVE IF N
03331 ' IF B, X3 IS NEGATIVE AND BIT 3(21) IS 1.
03332 ' IF R, X3 IS NEGATIVE AND BIT 4(22) IS 1.
03333 '
006021 200740.000001 10 03334 P9E MOVE 15, 1
006022 265600.006416 11 03335 JSP 12, P5 'STACK NUMBER
006023 136740.000011 10 03336 IDPB 15, 9
006024 136740.000011 10 03337 IDPB 15, 9
006025 265600.006541 11 03338 JSP 12, OF
006026 265600.006565 11 03339 JSP 12, IB
006027 505140.300000 10 03340 P9E0 HRLI 3, 3B20 'SET L,A BITS
006030 265440.006114 11 03341 JSP 9, P9ESO
006031 254003.000002 10 03342 J 2(3) 'N,END
006032 254000.006037 11 03343 J P9E1 'S
006033 303700.000006 10 03344 CAILE 14, 6 'NO
006034 254000.006072 11 03345 J P9E6
006035 641156.000000 10 03346 TLC 3, (14) 'SAVE DIGIT COUNT
006036 504040.000015 10 03347 HRL 1, 13
006037 621140.300000 10 03348 P9E1 TLZ 3, 3B20 'RESET L,A BITS
006040 265440.006112 11 03349 JSP 9, P9ES
006041 254000.006064 11 03350 J P9E4 'N,END
006042 254000.006046 11 03351 J P9E2 'S
006043 303700.000006 10 03352 CAILE 14, 6 'NO
006044 254003.000000 10 03353 J (3)
006045 540040.000015 10 03354 HRR 1, 13
006046 204700.000001 10 03355 P9E2 MOVS 14, 1
006047 204740.000003 10 03356 MOVS 15, 3 'GET
006050 405740.000007 10 03357 ANDI 15, 7 'DIGIT COUNT
006051 322740.006056 11 03358 JUMPE 15, P9E2A 'JUMP IF S
006052 301740.000006 10 03359 CAIL 15, 6
006053 254000.006056 11 03360 J *+3
006054 242700.000003 10 03361 LSH 14, 3 'LEFT-JUSTIFY LEFT HALF
006055 344740.006052 11 03362 AOJA 15, *-3
006056 265440.006132 11 03363 P9E2A JSP 9, P9ET
006057 504040.000016 10 03364 HRL 1, 14
006060 265440.006112 11 03365 P9E3 JSP 9, P9ES
006061 254000.006066 11 03366 J P9E5 'N,END
006062 254003.000000 10 03367 J (3) 'S
006063 254003.000000 10 03368 J (3) 'NO
006064 603140.000007 10 03369 P9E4 TLNE 3, 7 'SKIP IF S
006065 554040.000001 10 03370 HLRZ 1, 1
006066 200700.000001 10 03371 P9E5 MOVE 14, 1
006067 265440.006132 11 03372 JSP 9, P9ET
006070 540040.000016 10 03373 HRR 1, 14
006071 254003.000001 10 03374 J 1(3)

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006072	303700	.000014	10	03375	P9E6	CAILE	14, 12	
006073	254003	.000000	10	03376		J	(3)	
006074	200040	.000015	10	03377		MOVE	1, 13	
006075	553640	.000003	10	03378		HRRZS	13, 3	'RESET L, A BITS
006076	254000	.006060	11	03379		J	P9E3	
				03380				
006077	306700	.000062	10	03381	P9ES3	CAIN	14, .6/R/	
006100	663140	.420000	10	03382		TLOE	3, 1B18+1B22	
006101	254003	.000000	10	03383		J	(3)	
006102	254011	.000000	10	03384		J	(9)	
006103	302700	.000041	10	03385	P9ES2	CAIE	14, .6/A/	
006104	254000	.006107	11	03386		J	*+3	
006105	667140	.100000	10	03387		TLON	3, 1B20	'SET A BIT
006106	254000	.006112	11	03388		J	P9ES	
006107	306700	.000054	10	03389		CAIN	14, .6/L/	
006110	663140	.200000	10	03390		TLOE	3, 2B20	'SET L BIT
006111	254000	.006077	11	03391		J	P9ES3	
006112	603640	.770000	10	03392	P9ES	TLNE	13, 63B23	
006113	254000	.006117	11	03393		J	P9ES1	
006114	265600	.006214	11	03394	P9ES0	JSP	12, S0	
006115	254011	.000000	10	03395		J	(9)	'END
006116	254011	.000002	10	03396		J	2(9)	'NO
006117	201700	.000000	10	03397	P9ES1	MOVEI	14, 0	'NAME
006120	245640	.000006	10	03398		ROTC	13, 6	
006121	306700	.000063	10	03399		CAIN	14, .6/S/	
006122	254011	.000001	10	03400		J	1(9)	
006123	302700	.000056	10	03401		CAIE	14, .6/N/	
006124	306700	.000042	10	03402		CAIN	14, .6/B/	
006125	663140	.400000	10	03403		TLOE	3, 1B18	'SET N, B BIT
006126	254000	.006103	11	03404		J	P9ES2	
006127	302700	.000056	10	03405		CAIE	14, .6/N/	
006130	661140	.040000	10	03406		TLO	3, 1B21	'SET B BIT
006131	254011	.000000	10	03407		J	(9)	
				03408				
006132	627140	.100000	10	03409	P9ET	TLZN	3, 1B20	'SKIP IF A
006133	254000	.006137	11	03410		J	*+4	
006134	270700	.000002	10	03411		ADD	14, 2	
006135	623140	.200000	10	03412		TLZE	3, 2B20	'SKIP IF NO L
006136	254003	.000000	10	03413		J	(3)	
006137	627140	.200000	10	03414		TLZN	3, 2B20	'SKIP IF L
006140	254011	.000000	10	03415		J	(9)	
006141	207000	.000002	10	03416		MOVSS	2	
006142	270700	.000002	10	03417		ADD	14, 2	
006143	207000	.000002	10	03418		MOVSS	2	
006144	254011	.000000	10	03419		J	(9)	

006138
006139006140
006141006142
006143006144
006145


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03420 SKP
03421 'SUBROUTINE TO CALL ELEPH (3,7,12,15)
03422
006145 200743.000000 10 03423 ELF MOVE 15 (3) 'POINT TO TERMINATION BLOCK
006146 402017.000000 10 03424 Z (15)
006147 261340.000016 10 03425 PUSH 7, 14
006150 261340.000015 10 03426 PUSH 7, 13
006151 261340.000014 10 03427 PUSH 7, 12
006152 261340.000002 10 03428 PUSH 7, 2
006153 261340.000001 10 03429 PUSH 7, 1
006154 261340.000000 10 03430 PUSH 7, 0
006155 260340.020000 1F 03431 PUSHJ 7, ELEPH
006156 262340.000000 10 03432 POP 7, 0
006157 262340.000001 10 03433 POP 7, 1
006160 262340.000002 10 03434 POP 7, 2
006161 262340.000014 10 03435 POP 7, 12
006162 262340.000015 10 03436 POP 7, 13
006163 200743.000000 10 03437 MOVE 15 (3)
006164 331017.000001 10 03438 SKIPL 1(15) 'SKIP IF ERROR
006165 254000.006173 11 03439 J ELF1
006166 554757.000001 10 03440 HLRZ 15, 1(15) 'PICK UP ERROR NO.
006167 620740.400000 10 03441 TRZ 15, 1B18
006170 200717.024000 1F 03442 MOVE 14, ELFEBP(15)
006171 607700.000040 10 03443 TLNN 14, 1B30 'SKIP IF EXCEPTIONAL ERROR
006172 254000.006176 11 03444 J ELF2
006173 554743.000002 10 03445 ELF1 HLRZ 15, 2(3) 'PICK UP WORD COUNT FOR FILE READ/WRITE
006174 262340.000016 10 03446 POP 7, 14
006175 254014.000001 10 03447 J 1(12) 'NORMAL EXIT
006176 262340.000016 10 03448 ELF2 POP 7, 14
006177 254014.000000 10 03449 J (12) 'ERROR EXIT
03450
03451
03452 'ROUTINE TO STACK ELEPH ERROR MESSAGE
03453
006200 200557.024000 1F 03454 ELFE MOVE 11, ELFEBP(15) 'ELF ERROR NO. IN X15
006201 265600.006532 11 03455 JSP 12, 0B
006202 201740.000106 10 03456 MOVEI 15, 70
006203 134500.000013 10 03457 ILDB 10, 11
006204 306500.000027 10 03458 CAIN 10, =027
006205 254000.006210 11 03459 J *+3
006206 136500.000011 10 03460 IDPB 10, 9
006207 367740.006203 11 03461 SOJG 15, *-4
006210 265600.006367 11 03462 JSP 12, P2
006211 200600.000000 10 03463 MOVE 12, LOC
006212 254014.000000 10 03464 J (12)
03465
006145 1 03466 PO SYN ELF
006200 1 03467 POE SYN ELFE

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				03468	SKP				
				03469	'SCAN OCTAL INPUT (10,11,12,13,14,15)				
006213	134500	.000013	10	03470					
006214	306500	.000040	10	03471	ILDB	10,	11		
006215	254000	.006213	11	03472	SD CAIN	10,	.7/ /		
006216	201640	.000000	10	03473	J	x-2			
006217	201700	.000000	10	03474	MOVEI	13,	0		
006220	301500	.000060	10	03475	MOVEI	14,	0		
006221	303500	.000067	10	03476	SD1 CAIL	10,	.7/0/		
006222	254000	.006245	11	03477	CAILE	10,	.7/7/		
006223	620500	.000060	10	03478	J	SD2			
006224	242640	.000003	10	03479	TRZ	10,	48		
006225	670640	.000012	10	03480	LSH	13,	3		
006226	134500	.000013	10	03481	TDO	13,	10		
006227	344700	.006220	11	03482	ILDB	10,	11		
				03483	AOJA	14,	SD1		
				03484					
				03485	'SCAN DECIMAL INPUT (10,11,12,13,14,15)				
				03486					
006230	134500	.000013	10	03487	ILDB	10,	11		
006231	306500	.000040	10	03488	SD CAIN	10,	.7/ /		
006232	254000	.006230	11	03489	J	x-2			
006233	201640	.000000	10	03490	MOVEI	13,	0		
006234	201700	.000000	10	03491	MOVEI	14,	0		
006235	301500	.000060	10	03492	SD1 CAIL	10,	.7/0/		
006236	303500	.000071	10	03493	CAILE	10,	.7/9/		
006237	254000	.006245	11	03494	J	SD2			
006240	620500	.000060	10	03495	TRZ	10,	48		
006241	221640	.000012	10	03496	IMULI	13,	10		
006242	270640	.000012	10	03497	ADD	13,	10		
006243	134500	.000013	10	03498	ILDB	10,	11		
006244	344700	.006235	11	03499	AOJA	14,	SD1		
				03500					
006245	326714	.000001	10	03501	SD2 JUMPN	14,	1(12)		
006246	661540	.000040	10	03502	TLO	11,	1B30		'NUMBER EXIT (NO. IN 13, DIGIT COUNT IN 14)
006247	302500	.000032	10	03503	CAIE	10,	=032		'INDICATE COMBINATION
006250	625540	.000040	10	03504	TLZA	11,	1B30		'CONTROL Z
006251	134500	.000013	10	03505	ILDB	10,	11		
006252	201740	.000074	10	03506	MOVEI	15,	60		
006253	307500	.000040	10	03507	SD3 CAIG	10,	32		
006254	254000	.006271	11	03508	J	SD5			'SKIP IF NOT BLANK OR CONTROL CHAR
006255	275500	.000040	10	03509	SD3A SUBI	10,	32		
006256	246640	.000006	10	03510	LSHC	13,	6		
006257	670700	.000012	10	03511	TDO	14,	10		
006260	134500	.000013	10	03512	ILDB	10,	11		
006261	275740	.000006	10	03513	SUBI	15,	6		
006262	326740	.006253	11	03514	JUMPN	15,	SD3		
006263	246657	.000014	10	03515	SD4 LSHC	13,	12(15)		
006264	603540	.000040	10	03516	TLNE	11,	1B30		
006265	302500	.000032	10	03517	CAIE	10,	=032		
006266	254014	.000002	10	03518	J	2(12)			
006267	134500	.000013	10	03519	ILDB	10,	11		'NAME EXIT (NAME IN 13,14)
006270	254014	.000002	10	03520	J	2(12)			
006271	603540	.000040	10	03521	SD5 TLNE	11,	1B30		


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006272 254000.006276 11 03522 J SD6
006273 302740.000074 10 03523 CAIE 15, 60
006274 254000.006263 11 03524 J SD4
006275 254014.000000 10 03525 J (12) 'END EXIT (CONTROL CHAR IN 10)
006276 306500.000040 10 03526 SD6 CAIN 10, 32
006277 254000.006255 11 03527 J SD3A
006300 254000.006263 11 03528 J SD4
03529
03530
03531 ' SCAN HEX INPUT (10,11,12,13,14,15)
03532 ' AN INPUT ITEM MADE UP ENTIRELY OF ABCDEF'S IS CONVERTED AS A NUMBER
03533
006301 134500.000013 10 03534 ILDB 10,11 'LOOK FOR NEXT NON-BLANK
006302 306500.000040 10 03535 SH CAIN 10, .7/ /
006303 254000.006301 11 03536 J *-2
006304 201640.000000 10 03537 MOVEI 13, 0
006305 201700.000000 10 03538 MOVEI 14, 0 'CHAR-COUNT IN 14
006306 301500.000060 10 03539 SH1 CAIL 10, .7/0/ 'LOOK FOR A NUMERIC VALUE
006307 303500.000071 10 03540 CAIL 10, .7/9/
006310 254000.006312 11 03541 J **2
006311 254000.006327 11 03542 J SH1B 'IF 0-9 GO PLANT THE VALUE AS A NUMBER
006312 303500.000172 10 03543 CAIL 10, =0172 'NEXT GET RID OF LOWER CASE ALFA STUFF
006313 254000.006245 11 03544 J SD2 'BIGGER THAN LITTLE Z GETS OUT
006314 301500.000141 10 03545 CAIL 10, =0141 'SKIP IF NOW LITTLE ALFA
006315 275500.000040 10 03546 SUBI 10, =040 'CONVERT TO UPPER CASE
006316 301500.000101 10 03547 CAIL 10, .7/A/ 'IF A-F SPECIAL TEST NEEDED
006317 303500.000106 10 03548 CAIL 10, .7/F/
006320 254000.006245 11 03549 J SD2 'NOT HEX...GO TREAT AS NAME OR CONT-CHAR
006321 322700.006331 11 03550 JUMPE 14, SH1C 'IF BEGINS WITH A-F AMBIGUOUS, TEST MORE
006322 275500.000067 10 03551 SH1A SUBI 10, =067 'HEX-ALFA LETTER FOUND IN A NUMBER
006323 242640.000004 10 03552 SHIF LSH 13, 4 'PUT NEXT DIGIT IN PLACE IN THE RESULT
006324 270640.000012 10 03553 ADD 13, 10
006325 134500.000013 10 03554 ILDB 10, 11 'PICK UP THE NEXT BYTE
006326 344700.006306 11 03555 AOJA 14, SH1 'AND KEEP ON LOOKING FOR A NUMBER
006327 620500.000060 10 03556 SH1B TRZ 10, 48 'CONVERT 0-9 TO NUMBER
006330 254000.006323 11 03557 J SHIF 'AND GO PUT IT IN
006331 200740.000013 10 03558 SH1C MOVE 15, 11 'STARTS WITH A-F LOOK AHEAD TO DECIDE WHETHER
006332 134640.000017 10 03559 ILDB 13, 15 'NAME OR NUMBER. IT IS NAME ONLY IF A NON-HEX
006333 303640.000172 10 03560 CAIL 13, =0172 'AGAIN CONVERT LOWER CASE TO UPPER
006334 254000.006350 11 03561 J SH1E
006335 301640.000141 10 03562 CAIL 13, =0141
006336 275640.000040 10 03563 SUBI 13, =040
006337 301640.000101 10 03564 CAIL 13, .7/A/ 'ALFA IS FOUND IN NAME.
006340 303640.000132 10 03565 CAIL 13, .7/Z/
006341 254000.006346 11 03566 J SH1D 'IF NOT LETTER NEXT...CALL IT A NUMBER
006342 307640.000106 10 03567 CAIG 13, .7/F/ 'IF G-Z WE CAN CALL IT A NAME
006343 254000.006332 11 03568 J SH1C+1 'FOR A-F KEEP PEEKING AHEAD
006344 400640.000000 10 03569 SETZ 13, 'RESET RETURN VALUE AND GO DO A NAME
006345 254000.006245 11 03570 J SD2
006346 301640.000060 10 03571 SH1D CAIL 13, .7/0/ 'CAREFUL...MIGHT BE NAME WITH DIGIT IN IT
006347 303640.000071 10 03572 CAIL 13, .7/9/ 'E.G. AB9X...SO DIGITS ARE STILL AMBIGUOUS
006350 624640.000377 10 03573 SH1E TRZA 13, =0377 'NOPE...REALLY IS A HEX NUMBER, CLEAR R13
006351 254000.006332 11 03574 J SH1C+1 'FOR DIGITS GO BACK AND KEEP LOOKING FOR END
006352 254000.006322 11 03575 J SH1A 'OTHER THINGS CAN RESET AND CRACK A NUMBER

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03576 SKP
03577 'STACK 6-BIT CHARS (9,11,12,15)
03578
006353 505540.440600 10 03579 P1 HRLI 11, =0440600
006354 134740.000013 10 03580 P1A ILDB 15, 11
006355 302740.000012 10 03581 CAIE 15, .6/*/ 'EXIT WITH BLANK OR AIE
006356 306740.000004 10 03582 CAIN 15, .6/$/
006357 254000.006363 11 03583 J *+4
006360 271740.000040 10 03584 ADDI 15, 32
006361 136740.000011 10 03585 IDPB 15, 9
006362 254000.006354 11 03586 J P1A
006363 271740.000073 10 03587 ADDI 15, 59
006364 306740.000077 10 03588 CAIN 15, 63
006365 136740.000011 10 03589 IDPB 15, 9 'STACK QM IF $
006366 254014.000000 10 03590 J (12)
03591
03592 'STACK CR,LF (9,12,15)
03593
006367 201740.000015 10 03594 P2 MOVEI 15, .7/=C/
006370 136740.000011 10 03595 IDPB 15, 9
006371 201740.000012 10 03596 MOVEI 15, .7/=L/
006372 136740.000011 10 03597 IDPB 15, 9
006373 254014.000000 10 03598 J (12)
03599
03600 'STACK 6-BIT NAME (9,12,13,14)
03601
006374 607640.770000 10 03602 P3 TLNN 13, 63B23
006375 254014.000000 10 03603 J (12)
006376 620700.007777 10 03604 TRZ 14, =07777
006377 245640.000006 10 03605 ROTC 13, 6
006400 271700.000040 10 03606 ADDI 14, 32
006401 136700.000011 10 03607 IDPB 14, 9
006402 254000.006374 11 03608 J P3
03609
03610 'STACK OCTAL NUMBER, 1-6 DIGITS (9,12,14,15)
03611
006403 242740.000017 10 03612 P4 LSH 15, 15
006404 201700.000006 10 03613 MOVEI 14, 6
006405 242740.000003 10 03614 LSH 15, 3
006406 607740.700000 10 03615 TLNN 15, 7B20
006407 367700.006405 11 03616 SOJG 14, *-2
006410 541740.000006 10 03617 HRRI 15, 6
006411 241740.000003 10 03618 ROT 15, 3
006412 136740.000011 10 03619 IDPB 15, 9
006413 367700.006410 11 03620 SOJG 14, *-3
006414 201740.000040 10 03621 MOVEI 15, .7/ /
006415 254014.000000 10 03622 J (12)
03623
03624 'STACK OCTAL NUMBER, 12 DIGITS (9,12,14,15)
03625
006416 201700.000040 10 03626 P5 MOVEI 14, .7/ /
006417 136700.000011 10 03627 IDPB 14, 9
006420 136700.000011 10 03628 P5A IDPB 14, 9
006421 541700.400006 10 03629 P5B HRRI 14, 1B18+6

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006422	245700.	000003	10	03630	ROTC	14,	3	
006423	136700.	000011	10	03631	IDPB	14,	9	
006424	325700.	006421	11	03632	JUMPGE	14,	*-3	
006425	642740.	000041	10	03633	TRCE	15,	=041	
006426	254014.	000000	10	03634	J	(12)		'EXIT WITH BLANK IN X15
006427	201700.	000055	10	03635	MOVEI	14,	=055	
006430	252700.	006420	11	03636	AOBJP	14,	P5A	
				03637				
				03638	STACK OCTAL NUMBER, 6 DIGITS (9,12,14,15)			
				03639				
006431	527000.	000017	10	03640	P6	HRL0S	15	
006432	201700.	000006	10	03641	MOVEI	14,	6	
006433	246700.	000003	10	03642	LSHC	14,	3	
006434	136700.	000011	10	03643	IDPB	14,	9	
006435	602740.	777777	10	03644	TRNE	15,	-1	
006436	254000.	006432	11	03645	J	*-4		
006437	201740.	000040	10	03646	MOVEI	15,	.7/ /	
006440	136740.	000011	10	03647	IDPB	15,	9	
006441	254014.	000000	10	03648	J	(12)		
				03649				
				03650	STACK OCTAL NUMBER, 1-12 DIGITS (9,12,14,15)			
				03651				
006442	205700.	777777	10	03652	P7	MOVSI	14,	-1
006443	245700.	000003	10	03653	ROTC	14,	3	
006444	606700.	000007	10	03654	TRNN	14,	7	
006445	606740.	777777	10	03655	TRNN	15,	-1	
006446	664700.	000060	10	03656	TROA	14,	48	
006447	254000.	006443	11	03657	J	*-4		
006450	136700.	000011	10	03658	IDPB	14,	9	
006451	606740.	777777	10	03659	TRNN	15,	-1	
006452	254014.	000000	10	03660	J	(12)		
006453	541700.	000006	10	03661	HRR1	14,	6	
006454	245700.	000003	10	03662	ROTC	14,	3	
006455	254000.	006450	11	03663	J	*-5		
				03664				
				03665	STACK DECIMAL NUMBER (9,12,13,14,15)			
				03666				
006456	325640.	006462	11	03667	P8	JUMPGE	13,	*+4
006457	201740.	000055	10	03668	MOVEI	15,	.7/-/	
006460	136740.	000011	10	03669	IDPB	15,	9	
006461	213000.	000015	10	03670	MOVNS	13		
006462	201700.	000000	10	03671	MOVEI	14,	0	
006463	307640.	000011	10	03672	CAIG	13,	9	
006464	254000.	006470	11	03673	J	*+4		
006465	246700.	777774	10	03674	LSHC	14,	-4	
006466	231640.	000012	10	03675	IDIVI	13,	10	
006467	344700.	006463	11	03676	AOJA	14,	*-4	
006470	271640.	000060	10	03677	ADDI	13,	48	
006471	136640.	000011	10	03678	IDPB	13,	9	
006472	322714.	000000	10	03679	JUMPE	14,	(12)	
006473	271700.	000057	10	03680	ADDI	14,	47	
006474	136700.	000011	10	03681	IDPB	14,	9	
006475	201700.	000000	10	03682	MOVEI	14,	0	
006476	246700.	000004	10	03683	LSHC	14,	4	

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006477 326700.006473 11 03684          JUMPN 14, *-4
006500 254014.000000 10 03685          J      (12)
03686
03687
03688 ; STACK HEX NUMBER 1-9 DIGITS (9,12,13,14,15)
03689
006501 400700.000000 10 03690 P16      SETZ 14,
006502 201640.000011 10 03691          MOVEI 13, 9          'MAX 9 HEX-CHARS IN A WORD
006503 246700.000004 10 03692          LSHC 14, 4          'GET LEAD CHAR...STRIP OFF ZEROS
006504 306700.000000 10 03693          CAIN 14, 0
006505 367640.006503 11 03694          SOJG 13, *-2          'KEEP LOOKING FOR SIGNIFICANT DIGIT
006506 271700.000060 10 03695 P16A      ADDI 14, =060          'DROP THRU IF ALL ZERO. NOW CONVERT DIGIT TO
006507 303700.000071 10 03696          CAILE 14, =071          '7-BIT. ALFA DIGITS NEED MORE ATTENTION
006510 271700.000007 10 03697          ADDI 14, 7
006511 136700.000011 10 03698          IDPB 14, 9          'AND PUT THE CHAR AWAY
006512 201700.000000 10 03699          MOVEI 14, 0
006513 246700.000004 10 03700          LSHC 14, 4          'GET READY FOR NEXT, IF ANY
006514 367640.006506 11 03701          SOJG 13, P16A
006515 201740.000040 10 03702          MOVEI 15, 7//
006516 254014.000000 10 03703          J      0(12)
03704
03705
03706 ; STACK HEX NUMBER EXACTLY 9 CHARS (9,12,13,14,15)
03707
006517 201640.000011 10 03708 P17      MOVEI 13, 9          'DIGIT IS OMITTED.
006520 400700.000000 10 03709 P17A     SETZ 14,
006521 246700.000004 10 03710          LSHC 14, 4          'CODE IS LIKE P16 EXCEPT TEST FOR SIGNIFICANT
006522 271700.000060 10 03711          ADDI 14, =060
006523 303700.000071 10 03712          CAILE 14, =071
006524 271700.000007 10 03713          ADDI 14, 7
006525 136700.000011 10 03714          IDPB 14, 9
006526 367640.006520 11 03715          SOJG 13, P17A
006527 201740.000040 10 03716          MOVEI 15, 7//
006530 254014.000000 10 03717          J      0(12)
03718
03719
03720

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			03721		SKP				
	000000	0	03722	OBC	SYN	0		'OUTPUT BUFFER CONTROL	
	000004	0	03723	IBC	SYN	4		'INPUT BUFFER CONTROL	
			03724						
			03725		'GET TTY OUTPUT BUFFER (8,9,12)				
			03726						
006531	077000	000200	10	03727	TRAP	.A			
006532	332010	000002	10	03728	OBC	SKIP	OBC+2(8)	'SKIP IF BFR IS EMPTY	
006533	254000	006531	11	03729	J	*-2			
006534	200450	000000	10	03730	MOVE	9	OBC(8)	'POINT TO BFR	
006535	505440	440700	10	03731	HRLI	9	=0440700	'FORM BYTE PTR	
006536	254014	000000	10	03732	J	(12)			
				03733					
006537	201740	000056	10	03734	OFF	MOVEI	15, .7//.		
006540	136740	000011	10	03735	IDPB	15, 9			
				03736					
				03737	'RELEASE TTY OUTPUT BUFFER (8,9,12,15)				
				03738					
006541	201740	000027	10	03739	OF	MOVEI	15, =027	'STORE	
006542	136740	000011	10	03740	OFF	IDPB	15, 9	'END CHAR	
006543	200740	034000	1F	03741	MOVE	15, OOME			
006544	200750	000000	10	03742	MOVE	15, OBC(8)			
006545	275457	777777	10	03743	SUBI	9, -1(15)			
006546	552450	000002	10	03744	HRRZM	9, OBC+2(8)		'STORE MESSAGE LENGTH	
006547	607740	000020	10	03745	TLNN	15, =020		'SKIP IF READER WANTS A CALL	
006550	254014	000000	10	03746	J	(12)			
006551	336750	000003	10	03747	SKIPN	15, OBC+3(8)			
006552	254000	006557	11	03748	J	OFZ			
006553	250700	000017	10	03749	EXCH	14, 15			
006554	077000	000001	10	03750	TRAP	.R			
006555	200700	000017	10	03751	MOVE	14, 15			
006556	254014	000000	10	03752	J	(12)			
006557	402010	000002	10	03753	OFZ	Z	OBC+2(8)		
006560	254014	000000	10	03754	J	(12)			
				03755					
				03756	'GET TTY INPUT BUFFER (8,10,11,12)				
				03757					
006561	200500	000014	10	03758	IBO	MOVE	10, 12		
006562	265600	006604	11	03759	JSP	12, IF1		'RELEASE BFR	
006563	200600	000012	10	03760	MOVE	12, 10			
006564	077000	000200	10	03761	TRAP	.A			
006565	336550	000006	10	03762	IB	SKIPN	11, IBC+2(8)	'SKIP IF BFR IS FULL	
006566	254000	006564	11	03763	J	*-2			
006567	603540	777777	10	03764	TLNE	11, -1		'SKIP IF A NEW MESSAGE	
006570	254000	006561	11	03765	J	IBO			
006571	200540	034000	1F	03766	MOVE	11, OOME			
006572	563010	000006	10	03767	HRROS	IBC+2(8)		'SET OLD MESSAGE SENTINEL	
006573	200550	000004	10	03768	MOVE	11, IBC(8)		'POINT TO BFR	
006574	505540	350700	10	03769	HRLI	11, =0350700		'FORM BYTE PTR	
006575	135500	000013	10	03770	LDB	10, 11		'PICK UP 1ST CHAR OF MESSAGE	
006576	254014	000000	10	03771	J	(12)			
				03772					
006577	205540	400000	10	03773	IFCB	MOVSI	11, 1B18	'CLEAR	
006600	412550	000005	10	03774	ANDCAM	11, IBC+1(8)		'BREAK	

ADDRESS	OPERATOR	MODE	OPERATION	OPERANDS	COMMENT
03775					'RELEASE TTY INPUT BUFFER (8,11,12)
03776					
03777					
006601	332550	000006	10	03778 IF	SKIPE 11, IBC+2(8) 'SKIP IF BFR IS EMPTY
006602	607540	777777	10	03779 TLNN	11, -1 'SKIP IF AN OLD MESSAGE
006603	254014	000000	10	03780 J	(12)
006604	402010	000006	10	03781 IF1	Z IBC+2(8) 'INDICATE EMPTY BFR
006605	200550	000004	10	03782 MOVE	11, IBC(8)
006606	607540	000010	10	03783 TLNN	11, =010 'SKIP IF WRITER WANTS A CALL
006607	254014	000000	10	03784 J	(12)
006610	200540	000016	10	03785 MOVE	11, 14
006611	200710	000003	10	03786 MOVE	14, OBC+3(8)
006612	077000	000001	10	03787 TRAP	,R
006613	200700	000013	10	03788 MOVE	14, 11
006614	254014	000000	10	03789 J	(12)
				03790	
				03791	
006615	000144	10		03792 COREB	BLR 100 'CORE MAP BFR
				03793	
006761	000024	10		03794	BLR 20 'PATCH AREA
007005	000000	10		03795	END

1891	CHP2	1885
2015	CHPT	1879
2023	CHSLT	803 1687 1694 1766 1961
1949	CHXE	1992 2002
1948	CHXIT	1835 1858 1887 1890 1934 1942 2075
2199	CORE	592
2216	CORE1	2207 2212
2310	CORE10	2199 2259
2217	CORE1A	2204
2226	CORE2	2242
2231	CORE3	2241
2238	CORE4	2229
2244	CORE5	2234 2239
2251	CORE6	2305
2257	CORE6A	2251
2260	CORE6B	2256
2280	CORE7	2271 2276
2287	CORE7A	2295
2296	CORE7B	2286 2316 2319
2298	CORE8	2254
2306	CORE9	2302
2309	CORE9A	2300
3792	COREB	2223 2225 2250 2301
2338	COREK2	2247
2339	COREK3	2274
2340	COREK4	2277
2341	COREK5	2279
2314	COREN	2280 2282
2323	CORES	2268 2272
X	CORQS	28 2220 2245
1450	CPY	594
1482	CPY1	1478
721	CRD	711
740	CRF	586
764	CRF1	759
751	CRFD	733 737
881	DEL	710
810	DPR	595
831	DPR1	823
X	DSPLAY	26 590
964	DST	709
977	DST1	972
782	DUP	713
805	DUP1	797
791	DUPS	779
942	EDK	585
X	ELEPH	17 1512 1981 3431
3423	ELF	339 349 389 463 473 558 566 3466
3445	ELF1	3439
3448	ELF2	3444
3454	ELFE	162 559 567 3467
X	ELFEBP	17 877 1518 1991 2001 3442 3454
46	EOXER	873 875 876
55	FNASN	332 549 1752 1817 1946

	62	FNBDK	956 1164 1943
	56	FNCHN	914
	61	FNCPY	1472
	47	FNCRD	731
	48	FNCRF	748
	54	FNDEL	884 973
	65	FNDST	967
	51	FNEDK	945
	52	FNENT	
	57	FNEOX	866 935
	66	FNHOW	1065
	60	FNLD	1168
	69	FNR	343
	63	FNRDC	760 986
	53	FNREP	994 1051
	50	FNRH	835 1346
	64	FNRMS	1045
	59	FNRST	920
	58	FNSRT	1441
	67	FNUP	
	68	FNW	
	49	FNWH	827 1293 1327
	1634	FORMT	1396 1577 1582
X		GETRD	25 1815
	1062	HOW	596
	1119	HOW1	1074
	1128	HOW2	1137
	1137	HOW3	1131
	1091	HOWE	1082 1124 1134
	1094	HOWK	1078
	1116	HOWK1	1087
	1117	HOWK2	1089
	1118	HOWK3	1119
	1105	HOWM0	1094
	1106	HOWM1	1095
	1115	HOWM10	1104
	1107	HOWM2	1096
	1108	HOWM3	1097
	1109	HOWM4	1098
	1110	HOWM5	1099
	1111	HOWM6	1100
	1112	HOWM7	1101
	1113	HOWM8	1102
	1114	HOWM9	1103
N	3762	IB	4 100 642 2137 2205 2383 3339
	3758	IB0	3765
	3723	IBC	95 175 223 242 277 296 298 299 302 310 640 1216 1217 2135 2203 2298 2299 2430 2589 2590 2889 2890
N	3778	IF	4 247 324 327 1063 1344 1496 2435 2447 2471 2491 2601 2619 2658 2687 2723 3005 3124
	3781	IF1	3759
N	3773	IFCB	4 1160 2216 2533 3029 3080 3180
	363	LDR	155 159
	330	LDR0	154 158
	459	LDR1	379 453

1266	LSTS1	1245
1267	LSTS2	1249
1268	LSTS3	1255
1269	LSTS4	1259
1270	LSTST	1246 1250 1256 1260
853	MOVE	865 990 1058
X	MRDRCP	18 544
X	OOBOX	21 2226 2275 2318 3165
X	OOCORL	20 194 237 263 268 1232
X	OOCORO	20 532 1173
X	OOCVIT	23 1125 1373 2151
X	OOCVTA	23 1377 2153
X	OOCVTI	23 2182
X	OOME	19 165 275 2219 3185 3741 3766
X	OOTIME	24 2134
X	OOTYME	27 2132
N	3728 OB	5 410 607 658 678 839 1069 1202 1236 1358 1421 1498 2145 2152 2183 2246 2262 2309 2346 2363 2377
	3722 OBC	2436 2484 2540 2608 2627 2660 2693 2871 2896 2954 3006 3043 3092 3143 3183 3280 3455
N	3739 OF	244 245 279 281 282 284 290 293 3728 3730 3742 3744 3747 3753 3786
N	3740 OFE	5 256 413 674 686 850 1092 1420 1431 1507 2149 2367 3067 3105 3338
N	3734 OFP	5 1220 1238 2261 2311 2594 2895 2928
	3753 OFZ	5 2378
N	3466 PO	3748
N	3467 POE	7
N	3579 P1	7
N	3690 P16	8 1079 1090 1120 2248 2348 2365 2438 2571 2695 2752 2769 2785 2966 2998 3094 3103 3149
	3695 P16A	11
N	3708 P17	3701
	3709 P17A	11
N	3580 P1A	3715
N	3594 P2	8 608 1123 2574 2698 2702 2794 2820 3097 3101 3281 3586
	3602 P3	8 412 609 673 685 849 1091 1215 1413 1430 1506 2148 2249 2296 2353 2366 2439 2488 2542 2588 2669
	3612 P4	2703 2753 2770 2821 2881 2888 2926 2967 2999 3020 3066 3104 3153 3282 3462
	3626 P5	8 411 2701 3100 3152 3608
	3628 P5A	8 1407 1412 2352 2487 2544 2573 2630 2668 2697 2902 3096 3147
	3629 P5B	8 2185 2577 2584 2664 2884 2925 3335
	3640 P6	9 1505 3636
	3652 P7	1502 3063
	3667 P8	10 2264 2780 3065
	3334 P9E	10
	3340 P9E0	9 1086
	3348 P9E1	10 2616 2832 2859
	3355 P9E2	10 2650
	3363 P9E2A	3343
	3365 P9E3	3351
	3369 P9E4	3358
	3371 P9E5	3379
	3375 P9E6	3350
	3392 P9ES	3366
	3394 P9ES0	3345
	3397 P9ES1	3349 3365 3388
	3385 P9ES2	3341
		3393
		3404

