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CLEAR STORAGE 1 ,008015,022026,030037,044,049,053053N000000N00001026 1
CLEAR STORAGE 2 L068116,105106,110117B101/I9I#071029C029056B026/B001/0991,001/001117I0? 2
BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3
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FORTRAN COMPILER -- COMPUTED GOTO PHASE -- PHASE 40 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101				JOB	FORTRAN COMPILER -- COMPUTED GOTO PHASE -- PHASE 40						
102				CTL	6611						
103				*							
104				*	STATEMENTS WITH TWO TO TEN EXITS GENERATE IN-LINE INSTRUCTIONS.						
105				*							
106			X1	EQU	89			0089			
107			X2	EQU	94			0094			
108			X3	EQU	99			0099			
109				*							
110				*	STUFF IN THE RESIDENT AREA						
111				*							
112			PHASID	EQU	110 PHASE ID, FOR SNAPSHOT DUMPS			0110			
113			GLOBER	EQU	184 GLOBAL ERROR FLAG -- WM MEANS ERROR			0184			
114			SNAPSH	EQU	333 CORE DUMP SNAPSHOT			0333			
115			LOADNX	EQU	700 LOAD NEXT OVERLAY			0700			
116			CLEARL	EQU	707 CS AT START OF OVERLAY LOADER			0707			
117			CDOVLY	EQU	769 1 IF RUNNING FROM CARDS, N IF FROM TAPE			0769			
118				*							
119				ORG	838			0838			
120			LOADDD	EQU	*&1 LOAD ADDRESS			0838			
121	838		BEGINN	SW	GM,GM2	7		0838	,	S95 T09	4
122	845		LOOP	BW	DONE,0&X1	8	0845	V T20 0 0 1			4
123	853			MCW	0&X1,SEQNO	7	0853	M 0 0 T62			4
124	860			MCW	SEQNO,SEQNO2	7	0860	M T62 T12			4
125	867			MCW	RBRACK,1&X1	7	0867	M T63 0 1			4
126	874			SBR	TSTBRK&6,1&X1	7	0874	H  78 0 1			5
127	881			C	0&X1	4	0881	C 0 0			5
128	885			SAR	X1	4	0885	Q 089			5
129	889			C	2&X1,KT COMPUTED GOTO STATEMENT?	7	0889	C 0 2 T64			5
130	896			BU	ALMOST NO	5	0896	B T13 /			5
131	901			S	W2	4	0901	S T66			5
132	905		COUNT	MN	0&X1	4	0905	D 0 0			5
133	909			MN		1	0909	D			6
134	910			MN		1	0910	D			6
135	911			SAR	X1	4	0911	Q 089			6
136	915			A	KP1,W2	7	0915	A T67 T66			6
137	922			C	W2,KP11 ELEVEN WAYS YET?	7	0922	C T66 T69			6
138	929			BE	SYNTAX YES, SYNTAX ERROR	5	0929	B S23 S			6
139	934			C	0&X1,KCOMMA	7	0934	C 0 0 T70			6
140	941			BU	COUNT COUNT BRANCHES	5	0941	B 905 /			7
141	946			MN	0&X1	4	0946	D 0 0			7
142	950			SAR	X1	4	0950	Q 089			7
143	954			B	GETADR	4	0954	B /14			7
144	958			LCA	SEQNO2,0&X3	7	0958	L T12 0?0			7
145	965			LCA	BRANCH&3	4	0965	L T59			7
146	969			LCA		1	0969	L			7
147	970			LCA		1	0970	L			8

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148		971		SBR	X3		4	0971	H 099		8
149		975		SBR	X1,1&X1		7	0975	H 089 0 1		8
150				*							
151				*	GENERATE BCE INSTRUCTIONS TO TEST SELECTOR						
152				*							
153		982	GENBCE	BW	ENDSTM,4&X1		8	0982	V  53 0 4 1		8
154		990		SW	BCE-6		4	0990	, T44		8
155		994		MN	W2,BCE		7	0994	D T66 T50		8
156	1	001		MCW	W3		4	1001	M T02		8
157	1	005		MCW	6&X1		4	1005	M 0 6		9
158	1	009		SAR	X1		4	1009	Q 089		9
159	1	013		CW	BCE-6		4	1013	) T44		9
160	1	017		MZ	X2ZONE,BCE-5		7	1017	Y T71 T45		9
161	1	024		MZ	*-4,BCE-2		7	1024	Y  26 T48		9
162	1	031		LCA	BCE,0&X3		7	1031	L T50 0?0		9
163	1	038		SBR	X3		4	1038	H 099		9
164	1	042		S	KP1,W2		7	1042	S T67 T66		10
165	1	049		B	GENBCE		4	1049	B 982		10
166				*							
167	1	053	ENDSTM	LCA	GM,0&X3		7	1053	L S95 0?0		10
168	1	060		SBR	X3		4	1060	H 099		10
169	1	064	BOTTOM	C	0&X1 BOTTOM OF LOOP -- GET DOWN TO		4	1064	C 0 0		10
170	1	068		SAR	X1 BOTTOM OF STATEMENT		4	1068	Q 089		10
171	1	072	TSTBRK	BCE	LOOP,0,] NOT TOO BIG IF BRACKET NOT CLOBBERED		8	1072	B 845 000 ]		10
172	1	080		CS	332		4	1080	/ 332		11
173	1	084		CS			1	1084	/		11
174	1	085		CC	1		2	1085	F 1		11
175	1	087		MCW	ERROR2,270		7	1087	M U07 270		11
176	1	094		W			1	1094	2		11
177	1	095		CC	1		2	1095	F 1		11
178	1	097		BCE	HALT,CDOVLY,1		8	1097	B /10 769 1		11
179	1	105		RWD	1		5	1105	U %U1 R		12
180	1	110	HALT	H	HALT		4	1110	. /10		12
181				*							
182				*	VERIFY THAT THE FIELD AFTER THE BRANCHES IS AN ADDRESS,						
183				*	THAT IS, THE DIGIT PART OF ALL THREE CHARACTERS IS IN						
184				*	THE RANGE 0-9. MOVE IT TO W3.						
185				*							
186	1	114	GETADR	SBR	GETADX&3		4	1114	H S22		12
187	1	118		S	W1		4	1118	S U08		12
188	1	122	GETCH	MN	0&X1,TSTDGT&7		7	1122	D 0 0 /55		12
189	1	129		SAR	X1		4	1129	Q 089		12
190	1	133		BCE	OKADR,W1,B TESTED ALL THREE CHARACTERS?		8	1133	B /81 U08 B		12
191	1	141		A	KP1,W1		7	1141	A T67 U08		13
192	1	148	TSTDGT	BCE	GETCH,DIGITS,0 NUMERIC PART IS A DIGIT?		8	1148	B /22 U18 0		13
193	1	156		B			1	1156	B		13
194	1	157		B			1	1157	B		13
195	1	158		B			1	1158	B		13
196	1	159		B			1	1159	B		13
197	1	160		B			1	1160	B		13

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	1	161		B			1	1161	B		14
199	1	162		B			1	1162	B		14
200	1	163		B			1	1163	B		14
201	1	164		B			1	1164	B		14
202	1	165	GETGM	BCE	SYNTAX,0&X1,}		8	1165	B S23 0 0 }	GMARK	14
203	1	173		SBR	X1		4	1173	H 089		14
204	1	177		B	GETGM		4	1177	B /65		14
205	1	181	OKADR	BM	*&5,2&X1		8	1181	V /93 0 2 K		15
206	1	189		B	GETGM		4	1189	B /65		15
207	1	193		MZ	KB1,2&X1		7	1193	Y U19 0 2		15
208	1	200		MCW	3&X1,W3		7	1200	M 0 3 T02		15
209	1	207		C	0&X1,GM		7	1207	C 0 0 S95		15
210	1	214		BU	GETGM		5	1214	B /65 /		15
211	1	219	GETADX	B	0		4	1219	B 000		16
212			*								
213	1	223	SYNTAX	BWZ	*&5,SEQNO,2		8	1223	V S35 T62 2		16
214	1	231		B	*&9		4	1231	B S43		16
215	1	235		BWZ	*&15,SEQNO-2,2		8	1235	V S57 T60 2		16
216	1	243		MCW	SEQNO,X2		7	1243	M T62 094		16
217	1	250		MCW	0&X2,SEQNO		7	1250	M 0 0 T62		16
218	1	257		CS	332		4	1257	/ 332		17
219	1	261		CS			1	1261	/		17
220	1	262		SW	GLOBER		4	1262	, 184		17
221	1	266		MN	SEQNO,247		7	1266	D T62 247		17
222	1	273		MN			1	1273	D		17
223	1	274		MN			1	1274	D		17
224	1	275		MCW	ERR34		4	1275	M U63		17
225	1	279		W			1	1279	2		18
226	1	280		BCV	*&5		5	1280	B S89 @		18
227	1	285		B	*&3		4	1285	B S91		18
228	1	289		CC	1		2	1289	F 1		18
229	1	291		B	BOTTOM		4	1291	B  64		18
230			*								
231	1	295	GM	DC	@}@		1	1295		GMARK	18
232	1	299		DCW	@T840@		4	1299			18
233	1	302	W3	DCW	#3		3	1302			18
234	1	305		DCW	#3		3	1305			19
235	1	308		DCW	#3		3	1308			19
236	1	309	GM2	DC	@}@		1	1309		GMARK	19
237	1	312	SEQNO2	DC	#3		3	1312			19
238			*								
239	1	313	ALMOST	SBR	X1,5&X1		7	1313	H 089 0 5		19
240	1	320	DONE	BSS	SNAPSH,C		5	1320	B 333 C		19
241	1	325		SBR	CLEARL&3,GMWM		7	1325	H 710 U69		19
242	1	332		LCA	GOMSK,PHASID		7	1332	L U68 110		19
243	1	339		B	LOADNX		4	1339	B 700		20
244			*								
245	1	350	BCE	DCW	@BXXXXXXXXA@ BCE XXX,XXX,A		8	1350			20
246	1	351		NOP	1001		4	1351	N  01		20
247	1	355		H			1	1355	.		20

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	1	356	BRANCH	B	15992&X3	4		1356	B IIB		20
249	1	362	SEQNO	DCW	#3	3		1362			20
250	1	363	RBRACK	DCW	@j@	1		1363			20
251	1	364	KT	DCW	@T@ COMPUTED GOTO STATEMENT CODE	1		1364			21
252	1	366	W2	DCW	#2	2		1366			21
253	1	367	KP1	DCW	&1	1		1367			21
254	1	369	KP11	DCW	&11	2		1369			21
255	1	370	KCOMMA	DCW	,@	1		1370			21
256	1	371	X2ZONE	DCW	@K@	1		1371			21
257	1	407	ERROR2	DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	36		1407			22
258	1	408	W1	DCW	#1	1		1408			22
259	1	418	DIGITS	DCW	@0123456789@	10		1418			23
260	1	419	KB1	DCW	#1	1		1419			23
261	1	463	ERR34	DCW	@ERROR 34 - COMPUTED GO TO SYNTAX, STATEMENT @	44		1463			25
262	1	468	GOMSK	DCW	@GOMSK@	5		1468			25
263	1	469	GMWM	DCW	@j@	1		1469		GMARK	25
264				ORG	201				0201		
265		203		DSA	LOADDD LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM	3		0203	838		26
266				EX	BEGINN				B 838		27
267				END					/ 000 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ALMOST	1313	BCE	1350	BEGINN	838	BOTTOM	1064	BRANCH	1356	CDOVLY	769	CLEARL	707
COUNT	905	DIGITS	1418	DONE	1320	ENDSTM	1053	ERR34	1463	ERROR2	1407	GENBCE	982
GETADR	1114	GETADX	1219	GETCH	1122	GETGM	1165	GLOBER	184	GM	1295	GM2	1309
GMWM	1469	GOMSK	1468	HALT	1110	KB1	1419	KCOMMA	1370	KP1	1367	KP11	1369
KT	1364	LOADDD	838	LOADNX	700	LOOP	845	OKADR	1181	PHASID	110	RBRACK	1363
SEQNO	1362	SEQNO2	1312	SNAPSH	333	SYNTAX	1223	TSTBRK	1072	TSTDGT	1148	W1	1408
W2	1366	W3	1302	X1	89	X2	94	X2ZONE	1371	X3	99		