

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
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				GLOBER	EQU 184 GLOBAL ERROR FLAG -- WM MEANS ERROR			0184					
113				*									
114					EXT00 SNAPSH, LOADNX, CDOVLY								MACRO
115				SNAPSH	EQU 333			0333					GEN
116				PHASLD	EQU 381			0381					GEN
117				SNAPEX	EQU 564			0564					GEN
118				LOADNX	EQU 700 CARD OVERLAY UNLESS NOP			0700					GEN
119				CDOVLY	EQU 700 1 IF LOADING FROM CARDS, N IF FROM TAPE			0700					GEN
120				TPREAD	EQU 704 LOAD OVERLAY FROM TAPE			0704					GEN
121				TPERR	EQU 728			0728					GEN
122				*									
123					EXT03 START, TOP OF PHASE 3								MACRO
124				BEGIN3	EQU 838			0838					GEN
125				TOP3	EQU 2600			2600					GEN
126				*									
127				PHAS40	LDPH CGOTO,LOADAD,BEGN40,,,40								MACRO
				*	PHAZ LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]								GEN
				*	XFR PHASZ PROHIBITED IN A MACRO								GEN
				*									GEN
				*	LOAD A BLOCK								GEN
				*									GEN
128				)6J003	EQU 110 PHASE ID			0110					GEN
129				)6K003	EQU 700 LOAD NEXT PHASE			0700					GEN
130				)6L003	EQU 704 TAPE READ INSTRUCTION			0704					GEN
131				)6M003	EQU 728 TAPE ERROR HANDLER			0728					GEN
				*									GEN
132				ORG	201				0201				
133				PHAS40	BSS)8J003,G		5	0201	B 257 G	GEN	1	257	
134					NOF TO PATCH IN TRAPS FOR DEBUGGING		1	0206	N	GEN	1		
135				)0J003	EQU *&1			0207		GEN			
136				LCA	)9J003,)6J003		7	0207	L 277 110	GEN	1	277	110
137				BCE	)1J003,)6K003,1 Q: LOADING FROM CARDS?		8	0214	B 250 700 1	GEN	1	250	700
138				BCE	)1J003,)6L003&4,0 Q: LOADING FROM AUTOCODER TAPE?		8	0222	B 250 708 0	GEN	1	250	708
139				RTW	1,LOADAD READ THE BLOCK		8	0230	L %U1 838 R	GEN	1	%U1	838
140				BER	)6M003 Q: TAPE ERROR?		5	0238	B 728 L	GEN	2	728	
141				CS	BEGN40,)9R003 ENTER THE BLOCK		7	0243	/ 838 281	GEN	2	838	281
142				)1J003	CS)6K003,)9R003 LOAD CARDS OR AUTOCODER TAPE		7	0250	/ 700 281	GEN	2	700	281
143				)8J003	SW)9R003		4	0257	, 281	GEN	2	281	
144				MU	%T0,)8K003,W		8	0261	M %T0 273 W	GEN	2	%T0	273

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
145				H	)0J003	4		0269	. 207	GEN	2	207	
146			)8K003	EQU	*&1			0273		GEN			
147			)9J003	DCW	@CGOTO@	5		0277		GEN	3		
148				DCW	#1	1		0278		GEN	3		
149				DC	@40@	2		0280		GEN	3		
150			)9R003	DCW	@}@	1		0281		GEN	3		
151				XFR	PHAS40				B 201		4	201	
152			*										
153				ORG	BEGIN3				0838				
154			LOADAD	EQU	*&1			0838					
155	838		BEGN40	SW	GM,GM2	7		0838	, S95 T09		5	1295	1309
156	845		LOOP	BW	DONE,0&X1	8		0845	V T20 0|0 1		5	1320	000+1
157	853			MCW	0&X1,SEQNO	7		0853	M 0|0 T43		5	000+1	1343
158	860			MCW	SEQNO,SEQNO2	7		0860	M T43 T12		5	1343	1312
159	867			MCW	RBRACK,1&X1	7		0867	M T44 0|1		5	1344	001+1
160	874			SBR	TSTBRK&6,1&X1	7		0874	H |78 0|1		6	1078	001+1
161	881			C	0&X1	4		0881	C 0|0		6	000+1	
162	885			SAR	X1	4		0885	Q 089		6	089	
163	889			C	2&X1,KT COMPUTED GOTO STATEMENT?	7		0889	C 0|2 T45		6	002+1	1345
164	896			BU	ALMOST NO	5		0896	B T13 /		6	1313	
165	901			S	W2	4		0901	S T47		6	1347	
166	905		COUNT	MN	0&X1	4		0905	D 0|0		6	000+1	
167	909			MN		1		0909	D		7		
168	910			MN		1		0910	D		7		
169	911			SAR	X1	4		0911	Q 089		7	089	
170	915			A	KP1,W2	7		0915	A T48 T47		7	1348	1347
171	922			C	W2,KP11 ELEVEN WAYS YET?	7		0922	C T47 T50		7	1347	1350
172	929			BE	SYNTAX YES, SYNTAX ERROR	5		0929	B S23 S		7	1223	
173	934			C	0&X1,KCOMMA	7		0934	C 0|0 T51		7	000+1	1351
174	941			BU	COUNT COUNT BRANCHES	5		0941	B 905 /		8	905	
175	946			MN	0&X1	4		0946	D 0|0		8	000+1	
176	950			SAR	X1	4		0950	Q 089		8	089	
177	954			B	GETADR	4		0954	B /14		8	1114	
178	958			LCA	SEQNO2,0&X3	7		0958	L T12 0?0		8	1312	000+3
179	965			LCA	BRANCH&3	4		0965	L T40		8	1340	
180	969			LCA		1		0969	L		8		
181	970			LCA		1		0970	L		9		
182	971			SBR	X3	4		0971	H 099		9	099	
183	975			SBR	X1,1&X1	7		0975	H 089 0|1		9	089	001+1
184			*										
185			*		GENERATE BCE INSTRUCTIONS TO TEST SELECTOR								
186			*										
187	982		GENBCE	BW	ENDSTM,4&X1	8		0982	V |53 0|4 1		9	1053	004+1
188	990			SW	BCE-6	4		0990	, T25		9	1325	
189	994			MN	W2,BCE	7		0994	D T47 T31		9	1347	1331
190	1 001			MCW	W3	4		1001	M T02		9	1302	
191	1 005			MCW	6&X1	4		1005	M 0|6		10	006+1	
192	1 009			SAR	X1	4		1009	Q 089		10	089	
193	1 013			CW	BCE-6	4		1013	) T25		10	1325	
194	1 017			MZ	X2ZONE,BCE-5	7		1017	Y T52 T26		10	1352	1326

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
195	1	024		MZ	*-4,BCE-2	7		1024	Y |26 T29		10	1026	1329
196	1	031		LCA	BCE,0&X3	7		1031	L T31 0?0		10	1331	000+3
197	1	038		SBR	X3	4		1038	H 099		10	099	
198	1	042		S	KP1,W2	7		1042	S T48 T47		11	1348	1347
199	1	049		B	GENBCE	4		1049	B 982		11	982	
200				*									
201	1	053	ENDSTM	LCA	GM,0&X3	7		1053	L S95 0?0		11	1295	000+3
202	1	060		SBR	X3	4		1060	H 099		11	099	
203	1	064	BOTTOM	C	0&X1 BOTTOM OF LOOP -- GET DOWN TO	4		1064	C 0|0		11	000+1	
204	1	068		SAR	X1 BOTTOM OF STATEMENT	4		1068	Q 089		11	089	
205	1	072	TSTBRK	BCE	LOOP,0,] NOT TOO BIG IF BRACKET NOT CLOBBERED	8		1072	B 845 000]		11	845	000
206	1	080		CS	332	4		1080	/ 332		12	332	
207	1	084		CS		1		1084	/		12		
208	1	085		CC	1	2		1085	F 1		12		
209	1	087		MCW	ERROR2,270	7		1087	M T88 270		12	1388	270
210	1	094		W		1		1094	2		12		
211	1	095		CC	1	2		1095	F 1		12		
212	1	097		BCE	HALT,CDOVLY,1	8		1097	B /10 700 1		12	1110	700
213	1	105		RWD	1	5		1105	U %U1 R		13	%U1	
214	1	110	HALT	H	HALT	4		1110	. /10		13	1110	
215				*									
216					* VERIFY THAT THE FIELD AFTER THE BRANCHES IS AN ADDRESS,								
217					* THAT IS, THE DIGIT PART OF ALL THREE CHARACTERS IS IN								
218					* THE RANGE 0-9. MOVE IT TO W3.								
219				*									
220	1	114	GETADR	SBR	GETADX&3	4		1114	H S22		13	1222	
221	1	118		S	W1	4		1118	S T89		13	1389	
222	1	122	GETCH	MN	0&X1,TSTDGT&7	7		1122	D 0|0 /55		13	000+1	1155
223	1	129		SAR	X1	4		1129	Q 089		13	089	
224	1	133		BCE	OKADR,W1,B TESTED ALL THREE CHARACTERS?	8		1133	B /81 T89 B		13	1181	1389
225	1	141		A	KP1,W1	7		1141	A T48 T89		14	1348	1389
226	1	148	TSTDGT	BCE	GETCH,DIGITS,0 NUMERIC PART IS A DIGIT?	8		1148	B /22 T99 0		14	1122	1399
227	1	156		B		1		1156	B		14		
228	1	157		B		1		1157	B		14		
229	1	158		B		1		1158	B		14		
230	1	159		B		1		1159	B		14		
231	1	160		B		1		1160	B		14		
232	1	161		B		1		1161	B		15		
233	1	162		B		1		1162	B		15		
234	1	163		B		1		1163	B		15		
235	1	164		B		1		1164	B		15		
236	1	165	GETGM	BCE	SYNTAX,0&X1,}	8		1165	B S23 0|0 } GMARK		15	1223	000+1
237	1	173		SBR	X1	4		1173	H 089		15	089	
238	1	177		B	GETGM	4		1177	B /65		15	1165	
239	1	181	OKADR	BM	*&5,2&X1	8		1181	V /93 0|2 K		16	1193	002+1
240	1	189		B	GETGM	4		1189	B /65		16	1165	
241	1	193		MZ	KB1,2&X1	7		1193	Y U00 0|2		16	1400	002+1
242	1	200		MCW	3&X1,W3	7		1200	M 0|3 T02		16	003+1	1302
243	1	207		C	0&X1,GM	7		1207	C 0|0 S95		16	000+1	1295
244	1	214		BU	GETGM	5		1214	B /65 /		16	1165	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
245	1	219	GETADX	B	0	4		1219	B 000		17	000	
246			*										
247	1	223	SYNTAX	BWZ	*&5,SEQNO,2	8		1223	V S35 T43 2		17	1235	1343
248	1	231		B	*&9	4		1231	B S43		17	1243	
249	1	235		BWZ	*&15,SEQNO-2,2	8		1235	V S57 T41 2		17	1257	1341
250	1	243		MCW	SEQNO,X2	7		1243	M T43 094		17	1343	094
251	1	250		MCW	0&X2,SEQNO	7		1250	M 0!0 T43		17	000+2	1343
252	1	257		CS	332	4		1257	/ 332		18	332	
253	1	261		CS		1		1261	/		18		
254	1	262		SW	GLOBER	4		1262	, 184		18	184	
255	1	266		MN	SEQNO,247	7		1266	D T43 247		18	1343	247
256	1	273		MN		1		1273	D		18		
257	1	274		MN		1		1274	D		18		
258	1	275		MCW	ERR34	4		1275	M U44		18	1444	
259	1	279		W		1		1279	2		19		
260	1	280		BCV	*&5	5		1280	B S89 @		19	1289	
261	1	285		B	*&3	4		1285	B S91		19	1291	
262	1	289		CC	1	2		1289	F 1		19		
263	1	291		B	BOTTOM	4		1291	B |64		19	1064	
264			*										
265	1	295	GM	DC	@}@	1		1295		GMARK	19		
266	1	299		DCW	@T840@	4		1299			19		
267	1	302	W3	DCW	#3	3		1302			19		
268	1	305		DCW	#3	3		1305			20		
269	1	308		DCW	#3	3		1308			20		
270	1	309	GM2	DC	@}@	1		1309		GMARK	20		
271	1	312	SEQNO2	DC	#3	3		1312			20		
272			*										
273	1	313	ALMOST	SBR	X1,5&X1	7		1313	H 089 0|5		20	089	005+1
274	1	320	DONE	B	LOADNX	4		1320	B 700		20	700	
275			*										
276	1	350	BCE	DCW	@BXXXXXXA@ BCE XXX,XXX,A	8		1331			20		
277	1	351		NOP	1001	4		1332	N |01		20	1001	
278	1	355		H		1		1336	.		20		
279	1	356	BRANCH	B	15992&X3	4		1337	B IIB		21	15992+3	
280	1	362	SEQNO	DCW	#3	3		1343			21		
281	1	363	RBRACK	DCW	@}@	1		1344			21		
282	1	364	KT	DCW	@T@ COMPUTED GOTO STATEMENT CODE	1		1345			21		
283	1	366	W2	DCW	#2	2		1347			21		
284	1	367	KP1	DCW	&1	1		1348			21		
285	1	369	KP11	DCW	&11	2		1350			21		
286	1	370	KCOMMA	DCW	@,@	1		1351			22		
287	1	371	X2ZONE	DCW	@K@	1		1352			22		
288	1	407	ERROR2	DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	36		1388			22		
289	1	408	W1	DCW	#1	1		1389			22		
290	1	418	DIGITS	DCW	@0123456789@	10		1399			23		
291	1	419	KB1	DCW	#1	1		1400			23		
292	1	463	ERR34	DCW	@ERROR 34 - COMPUTED GO TO SYNTAX, STATEMENT @	44		1444			25		
293	1	469	GMWM	DCW	@}@	1		1445		GMARK	25		
294			XFR		BEGN40				B 838		26	838	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
295			CLRME	CLRA	LOADAD, GMWM, C					MACRO			
			*	CLRA	CLRBOT, CLRTOP [, SS, HERE, GWMAD]					GEN			
			*							GEN			
			*		CLEAR CORE AFTER A PHASE USING THE CLRTOP ADDRESS					GEN			
			*							GEN			
296				ORG	201				0201				
			*							GEN			
			*		CLEAR DOWN TO CLRBOT & X00 THE EASY WAY					GEN			
			*							GEN			
297			CLRME	EQU	*&1			0201					
298				BSS	SNAPSH, C	5		0201	B 333 C	GEN	27	333	
299			)0J004	CS	GMWM CLEAR FROM CLRTOP	4		0206	/ U45	GEN	27	1445	
300				SBR	)0J004&3	4		0210	H 209	GEN	27	209	
301				SBR	)0L004&6	4		0214	H 255	GEN	27	255	
302				C	)0J004&3,)0M004 DOWN TO CLRBOT & X00?	7		0218	C 209 266	GEN	27	209	266
303				BU	)0J004	5		0225	B 206 /	GEN	27	206	
			*							GEN			
			*		NOW CLEAR DOWN TO CLRBOT THE HARD WAY					GEN			
			*							GEN			
304			)0K004	C	)0L004&6,)0N004	7		0230	C 255 269	GEN	27	255	269
305				BU	)0L004	5		0237	B 249 /	GEN	28	249	
306				CS	LOADNX,)0Q004 LOAD THE NEXT BLOCK AT 1	7		0242	/ 700 276	GEN	28	700	276
307			)0L004	LCA	)0P004, 0-0 CLEAR WITH BLANK AND WORD MARK	7		0249	L 270 000	GEN	28	270	000
308				SBR	)0L004&6	4		0256	H 255	GEN	28	255	
309				B	)0K004	4		0260	B 230	GEN	28	230	
310			)0M004	DSA	)0R004 CLRBOT & X00 - 1	3		0266	899	GEN	28	899	
311			)0N004	DSA	LOADAD CLRBOT	3		0269	838	GEN	28	838	
312			)0P004	DCW	#1	1		0270		GEN	29		
313				DC	@CLRA @ IDENTIFY IN A DECK, TAPE, OR DUMP	5		0275		GEN	29		
314			)0Q004	DCW	@}@	1		0276		GEN	29		
315				ORG	LOADAD&X00				0900				
316			)0R004	EQU	* CLRBOT & X00 - 1			0899		GEN			
317				XFR	CLRME				B 201		30	201	

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J003	0207: 0	)0J004	0206: 0	)0K004	0230: 0	)0L004	0249: 0	)0M004	0266: 0	)0N004	0269: 0
)0P004	0270: 0	)0Q004	0276: 0	)0R004	0899: 0	)1J003	0250: 0	)6J003	0110: 0	)6K003	0700: 0
)6L003	0704: 0	)6M003	0728: 0	)8J003	0257: 0	)8K003	0273: 0	)9J003	0277: 0	)9R003	0281: 0
ALMOST	1313: 0	BCE	1331: 0	BEGIN3	0838: 0	BEGN40	0838: 0	BOTTOM	1064: 0	BRANCH	1337: 0
CDOVLY	0700: 0	CLRME	0201: 0	COUNT	0905: 0	DIGITS	1399: 0	DONE	1320: 0	ENDSTM	1053: 0
ERR34	1444: 0	ERROR2	1388: 0	GENBCE	0982: 0	GETADR	1114: 0	GETADX	1219: 0	GETCH	1122: 0
GETGM	1165: 0	GLOBER	0184: 0	GM	1295: 0	GM2	1309: 0	GMWM	1445: 0	HALT	1110: 0
KB1	1400: 0	KCOMMA	1351: 0	KP1	1348: 0	KP11	1350: 0	KT	1345: 0	LOADAD	0838: 0
LOADNX	0700: 0	LOOP	0845: 0	OKADR	1181: 0	PHAS40	0201: 0	PHASLD	0381: 0	RBRACK	1344: 0
SEQNO	1343: 0	SEQNO2	1312: 0	SNAPEX	0564: 0	SNAPSH	0333: 0	SYNTAX	1223: 0	TOP3	2600: 0
TPERR	0728: 0	TPREAD	0704: 0	TSTBRK	1072: 0	TSTDGT	1148: 0	W1	1389: 0	W2	1347: 0
W3	1302: 0	X1	0089: 0	X2	0094: 0	X2ZONE	1352: 0	X3	0099: 0		

UNREFERENCED SYMBOLS

PHASLD SNAPEX TOP3 TPERR TPREAD