

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
101			JOB		FORTRAN COMPILER -- I/O PHASE TWO -- PHASE 39								
102			CTL		6611								
103			*										
104			*		IN-LINE INSTRUCTIONS ARE GENERATED FOR EXECUTING END FILE,								
105			*		REWIND AND BACKSPACE STATEMENTS.								
106			*										
107			X1	EQU	89			0089					
108			X2	EQU	94			0094					
109			X3	EQU	99			0099					
110			*										
111			*		STUFF IN THE RESIDENT AREA								
112			*										
113			GLOBER	EQU	184 GLOBAL ERROR FLAG -- WM MEANS ERROR			0184					
114			*										
115					EXT00 SNAPSH, LOADNX, CDOVLY					MACRO			
116			SNAPSH	EQU	333			0333		GEN			
117			PHASLD	EQU	381			0381		GEN			
118			SNAPEX	EQU	564			0564		GEN			
119			LOADNX	EQU	700 CARD OVERLAY UNLESS NOP			0700		GEN			
120			CDOVLY	EQU	700 1 IF LOADING FROM CARDS, N IF FROM TAPE			0700		GEN			
121			TPREAD	EQU	704 LOAD OVERLAY FROM TAPE			0704		GEN			
122			TPERR	EQU	728			0728		GEN			
123			*										
124					EXT03 START, TOP OF PHASE 3					MACRO			
125			BEGIN3	EQU	838			0838		GEN			
126			TOP3	EQU	2600			2600		GEN			
127			*										
128			110	DCW	@I/O TWO@	7	0110				1		
129			094	DCW	000	3	0094				2		
130			096	DC	00	2	0096				2		
131			*										
132			PHAS39	LDPH	I/O TWO,LOADAD,LOOP,,,39					MACRO			
			*	PHAZ	LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]					GEN			
			*	XFR	PHASZ PROHIBITED IN A MACRO					GEN			
			*							GEN			
			*	LOAD	A BLOCK					GEN			
			*							GEN			
133			)6J003	EQU	110 PHASE ID			0110		GEN			
134			)6K003	EQU	700 LOAD NEXT PHASE			0700		GEN			
135			)6L003	EQU	704 TAPE READ INSTRUCTION			0704		GEN			
136			)6M003	EQU	728 TAPE ERROR HANDLER			0728		GEN			
			*							GEN			
137			ORG		201				0201				
138			PHAS39	EQU	*&1			0201		GEN			
139			LCA	)9J003,	)6J003	7	0201	L 250 110	GEN	3	250	110	
140			BCE	)6K003,	)6K003,1 Q: LOADING FROM CARDS?	8	0208	B 700 700 1	GEN	3	700	700	
141			BCE	)6K003,	)6L003&4,0 Q: LOADING FROM AUTOCODER TAPE?	8	0216	B 700 708 0	GEN	3	700	708	
142			RTW	1,LOADAD	READ THE BLOCK	8	0224	L %U1 838 R	GEN	3	%U1	838	
143			BER	)6M003	Q: TAPE ERROR?	5	0232	B 728 L	GEN	3	728		
144			CS	LOOP,)9R003	ENTER THE BLOCK	7	0237	/ 838 254	GEN	4	838	254	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
145			)9J003	DCW	@I/O TWO@ PHASE ID	7		0250		GEN	4		
146				DC	#1	1		0251		GEN	4		
147				DC	@39@ PHASE NUMBER	2		0253		GEN	4		
148			)9R003	DCW	@}@	1		0254		GEN	4		
149				XFR	PHAS39				B 201		5	201	
150			*										
151				ORG	BEGIN3				0838				
152			LOADAD	EQU	*&1 LOAD ADDRESS			0838					
153	838		LOOP	BCE	DONE,0&X1,	8		0838	B 870 0 0		6	870	000+1
154	846			MCW	0&X1,CODSEQ	7		0846	M 0 0 S16		6	000+1	1216
155	853			MCW	CODSEQ-3,*&8	7		0853	M S13 867		6	1213	867
156	860			BCE	IOSTMT,0 INTERESTING STATEMENT?	8		0860	B 879 S19 0		6	879	1219
157	868			B		1		0868	B		6		
158	869			B		1		0869	B		6		
159	870		DONE	BSS	SNAPSH,C	5		0870	B 333 C		6	333	
160	889			B	LOADNX	4		0875	B 700		7	700	
161			*										
162			*	STATEMENT	IS BACKSPACE, ENDFILE OR REWIND								
163			*										
164	893		IOSTMT	MCW	KB,IOINST ASSUME BACKSPACE	7		0879	M S20 S12		7	1220	1212
165	900			MCW	KLESS,2&X1	7		0886	M S21 0 2		7	1221	002+1
166	907			SBR	TSTLES&6,2&X1	7		0893	H /09 0 2		7	1109	002+1
167	914			BCE	MOVEUP,CODSEQ-3,B BACKSPACE?	8		0900	B 930 S13 B		7	930	1213
168	922			MCW	KR,IOINST ASSUME REWIND	7		0908	M S22 S12		8	1222	1212
169	929			BCE	MOVEUP,CODSEQ-3,Z REWIND?	8		0915	B 930 S13 Z		8	930	1213
170	937			MCW	KM,IOINST MUST BE ENDFILE	7		0923	M S23 S12		8	1223	1212
171	944		MOVEUP	LCA	0&X1,0&X3	7		0930	L 0 0 0?0		8	000+1	000+3
172	951			SAR	X1	4		0937	Q 089		8	089	
173	955			C	0&X3	4		0941	C 0?0		8	000+3	
174	959			SAR	X3	4		0945	Q 099		9	099	
175	963			LCA	1&X1,2&X3	7		0949	L 0 1 0?2		9	001+1	002+3
176	970			SBR	X3	4		0956	H 099		9	099	
177	974			BWZ	*&5,CODSEQ,2	8		0960	V 972 S16 2		9	972	1216
178	982			B	*&9	4		0968	B 980		9	980	
179	986			BWZ	*&15,CODSEQ-2,2	8		0972	V 994 S14 2		9	994	1214
180	994			MCW	CODSEQ,X2 ZONE IN CODSEQ HIGH OR LOW	7		0980	M S16 094		10	1216	094
181	1 001			MCW	0&X2,CODSEQ MEANS IT'S AN ADDRESS	7		0987	M 0!0 S16		10	000+2	1216
182	1 008			BCE	SYNTAX,0&X1,}	8		0994	B /45 0 0 } GMARK		10	1145	000+1
183	1 016			MN	0&X1	4		1002	D 0 0		10	000+1	
184	1 020			SAR	X2	4		1006	Q 094		10	094	
185	1 024			BCE	UNITK,0&X2,} UNIT NUMBER IS A CONSTANT	8		1010	B /90 0!0 } GMARK		10	1190	000+2
186	1 032		UVAR	MCW	K0,IOINST-1	7		1018	M S24 S11		11	1224	1211
187	1 039			MCW	0&X1,MVUNIT&3	7		1025	M 0 0 S04		11	000+1	1204
188	1 046			MCW	MN,MVUNIT	7		1032	M S25 S01		11	1225	1201
189	1 053			MZ	*-4,MVUNIT&2 CLOBBER TYPE TAG	7		1039	Y  41 S03		11	1041	1203
190	1 060			CW	FLAG	4		1046	) S26		11	1226	
191	1 064		GOTU	C	0&X1	4		1050	C 0 0		11	000+1	
192	1 068			SAR	X1	4		1054	Q 089		12	089	
193	1 072			LCA	IOINST,0&X3 LOAD CU INSTRUCTION	7		1058	L S12 0?0		12	1212	000+3
194	1 079			SBR	X3	4		1065	H 099		12	099	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
195	1	083		BW	CONST,FLAG	8	1069	V	92 S26 1		12	1092	1226
196	1	091		SW	FLAG	4	1077	,	S26		12	1226	
197	1	095		LCA	MVUNIT&6,0&X3	7	1081	L	S07 0?0		12	1207	000+3
198	1	102		SBR	X3	4	1088	H	099		12	099	
199	1	106	CONST	LCA	1&X1,0&X3	7	1092	L	0 1 0?0		13	001+1	000+3
200	1	113		SBR	X3	4	1099	H	099		13	099	
201	1	117	TSTLES	BCE	LOOP,0,<	8	1103	B	838 000 <		13	838	000
202	1	125		CS	332	4	1111	/	332		13	332	
203	1	129		CS		1	1115	/			13		
204	1	130		CC	1	2	1116	F	1		13		
205	1	132		MCW	ERROR2,270	7	1118	M	S62 270		13	1262	270
206	1	139		W		1	1125	2			14		
207	1	140		CC	1	2	1126	F	1		14		
208	1	142		BCE	HALT,CDOVLY,1	8	1128	B	/41 700 1		14	1141	700
209	1	150		RWD	1	5	1136	U	%U1 R		14	%U1	
210	1	155	HALT	H	HALT	4	1141	.	/41		14	1141	
211	1	159	SYNTAX	CS	332	4	1145	/	332		14	332	
212	1	163		CS		1	1149	/			14		
213	1	164		SW	GLOBER	4	1150	,	184		15	184	
214	1	168		MN	CODSEQ,245	7	1154	D	S16 245		15	1216	245
215	1	175		MN		1	1161	D			15		
216	1	176		MN		1	1162	D			15		
217	1	177		MCW	ERR33	4	1163	M	T04		15	1304	
218	1	181		W		1	1167	2			15		
219	1	182		BCV	*&5	5	1168	B	/77 @		15	1177	
220	1	187		B	*&3	4	1173	B	/79		16	1179	
221	1	191		CC	1	2	1177	F	1		16		
222	1	193		MCW	K0,IOINST-1	7	1179	M	S24 S11		16	1224	1211
223	1	200		B	UVAR	4	1186	B	18		16	1018	
224			*										
225			* UNIT NUMBER IS A CONSTANT										
226			*										
227	1	204	UNITK	MN	0&X1,IOINST-1	7	1190	D	0 0 S11		16	000+1	1211
228	1	211		B	GOTU	4	1197	B	50		16	1050	
229			*										
230			* DATA										
231			*										
232	1	215	MVUNIT	MCW	5777&X1,4&X3	7	1201	M	XXX 0?4		16	5777+1	004+3
233	1	226	IOINST	DCW	@U%UOX@	5	1212				17		
234	1	230	CODSEQ	DCW	#4 STATEMENT CODE AND SEQUENCE NUMBER	4	1216				17		
235	1	233	CODES	DCW	@BZN@ BACKSPACE, REWIND, ENDFILE STATEMENT CODES	3	1219				17		
236	1	239	KB	DCW	@B@	1	1220				17		
237	1	240	KLESS	DCW	@<@ CORE IS NOT FULL YET SENTINEL	1	1221				17		
238	1	241	KR	DCW	@R@	1	1222				17		
239	1	242	KM	DCW	@M@	1	1223				17		
240	1	243	K0	DCW	@0@	1	1224				18		
241	1	244	MN	MN		1	1225	D			18		
242	1	245	FLAG	DCW	#1 NO WM MEANS UNIT IS VARIABLE, WM MEANS CONST	1	1226				18		
243	1	281	ERROR2	DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	36	1262				18		
244	1	323	ERR33	DCW	@ERROR 33 - NO TAPE UNIT NUMBER, STATEMENT @	42	1304				21		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
245	1	324	GMWM	DCW	@}@		1	1305		GMARK	21		
246			XFR	LOOP					B 838		22	838	
247			CLRME	CLRA	LOADAD,GMWM					MACRO			
			*	CLRA	CLRBOT,CLRTOP[,ORG,GMWMAD]					GEN			
			*							GEN			
			*	CLEAR CORE	AFTER A PHASE USING THE CLRTOP ADDRESS					GEN			
			*							GEN			
248			ORG	201					0201				
			*							GEN			
			*	CLEAR DOWN	TO CLRBOT & X00 THE EASY WAY					GEN			
			*							GEN			
249			CLRME	EQU	*&1			0201		GEN			
250			)0J004	CS	GMWM CLEAR FROM CLRTOP	4		0201	/ T05	GEN	23	1305	
251				SBR	)0J004&3	4		0205	H 204	GEN	23	204	
252				SBR	)0L004&6	4		0209	H 250	GEN	23	250	
253				C	)0J004&3,)0M004 DOWN TO CLRBOT & X00?	7		0213	C 204 261	GEN	23	204	261
254				BU	)0J004	5		0220	B 201 /	GEN	23	201	
			*							GEN			
			*	NOW CLEAR DOWN	TO CLRBOT THE HARD WAY					GEN			
			*							GEN			
255			)0K004	C	)0L004&6,)0N004	7		0225	C 250 264	GEN	23	250	264
256				BU	)0L004	5		0232	B 244 /	GEN	23	244	
257				CS	LOADNX,)0Q004 LOAD THE NEXT BLOCK AT 1	7		0237	/ 700 271	GEN	24	700	271
258			)0L004	LCA	)0P004,0-0 CLEAR WITH BLANK AND WORD MARK	7		0244	L 265 000	GEN	24	265	000
259				SBR	)0L004&6	4		0251	H 250	GEN	24	250	
260				B	)0K004	4		0255	B 225	GEN	24	225	
261			)0M004	DSA	)0R004 CLRBOT & X00 - 1	3		0261	899	GEN	24	899	
262			)0N004	DSA	LOADAD CLRBOT	3		0264	838	GEN	24	838	
263			)0P004	DCW	#1	1		0265		GEN	24		
264				DC	@CLRA @ IDENTIFY IN A DECK, TAPE, OR DUMP	5		0270		GEN	24		
265			)0Q004	DCW	@}@	1		0271		GEN	25		
266				ORG	LOADAD&X00				0900				
267			)0R004	EQU	* CLRBOT & X00 - 1			0899		GEN			
268				XFR	CLRME				B 201		26	201	

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J004	0201: 0	)0K004	0225: 0	)0L004	0244: 0	)0M004	0261: 0	)0N004	0264: 0	)0P004	0265: 0
)0Q004	0271: 0	)0R004	0899: 0	)6J003	0110: 0	)6K003	0700: 0	)6L003	0704: 0	)6M003	0728: 0
)9J003	0250: 0	)9R003	0254: 0	BEGIN3	0838: 0	CDOVLY	0700: 0	CLRME	0201: 0	CODES	1219: 0
CODSEQ	1216: 0	CONST	1092: 0	DONE	0870: 0	ERR33	1304: 0	ERROR2	1262: 0	FLAG	1226: 0
GLOBER	0184: 0	GMWM	1305: 0	GOTU	1050: 0	HALT	1141: 0	IOINST	1212: 0	IOSTMT	0879: 0
K0	1224: 0	KB	1220: 0	KLESS	1221: 0	KM	1223: 0	KR	1222: 0	LOADAD	0838: 0
LOADNX	0700: 0	LOOP	0838: 0	MN	1225: 0	MOVEUP	0930: 0	MVUNIT	1201: 0	PHAS39	0201: 0
PHASLD	0381: 0	SNAPEX	0564: 0	SNAPSH	0333: 0	SYNTAX	1145: 0	TOP3	2600: 0	TPERR	0728: 0
TPREAD	0704: 0	TSTLES	1103: 0	UNITK	1190: 0	UVAR	1018: 0	X1	0089: 0	X2	0094: 0
X3	0099: 0										

## UNREFERENCED SYMBOLS

PHASLD SNAPEX TOP3 TPERR TPREAD