

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
101			JOB		FORTRAN COMPILER -- STMT NUMBERS FIVE -- PHASE 31								
102			CTL		6611								
103			*										
104			*		UNDEFINED STATEMENT NUMBERS ARE NOTED.								
105			*										
106			*		ON ENTRY, X1 IS THE TOP OF STATEMENTS, AND X3 IS ONE BELOW								
107			*		THE LABEL TABLE AT THE TOP OF CORE.								
108			*										
109			X1	EQU	89			0089					
110			X2	EQU	94			0094					
111			X3	EQU	99			0099					
112			*										
113			*		STUFF IN THE RESIDENT AREA								
114			*										
115			TBLBOT	EQU	145 ONE BELOW NUMBERS, FORMATS, I/O LISTS			0145					
116			GLOBER	EQU	184 GLOBAL ERROR FLAG -- WM MEANS ERROR			0184					
117			*										
118				EXT00	SNAPSH, LOADNX, CDOVLY							MACRO	
119			SNAPSH	EQU	333			0333				GEN	
120			PHASLD	EQU	381			0381				GEN	
121			SNAPEX	EQU	564			0564				GEN	
122			LOADNX	EQU	700 CARD OVERLAY UNLESS NOP			0700				GEN	
123			CDOVLY	EQU	700 1 IF LOADING FROM CARDS, N IF FROM TAPE			0700				GEN	
124			TPREAD	EQU	704 LOAD OVERLAY FROM TAPE			0704				GEN	
125			TPERR	EQU	728			0728				GEN	
126			*										
127				EXT03	START, TOP OF PHASE 3							MACRO	
128			BEGIN3	EQU	838			0838				GEN	
129			TOP3	EQU	2600			2600				GEN	
130			*										
131			110	DCW	@STNUM FIVE		9	0110				1	
132			094	DCW	000		3	0094				2	
133			096	DC	00		2	0096				2	
134			*										
135			PHAS31	LDPH	STNUM FIV,LOADAD,BEGN31,,,31							MACRO	
			*	PHAZ	LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]							GEN	
			*	XFR	PHASZ PROHIBITED IN A MACRO							GEN	
			*									GEN	
			*	LOAD	A BLOCK							GEN	
			*									GEN	
136			)6J003	EQU	110 PHASE ID			0110				GEN	
137			)6K003	EQU	700 LOAD NEXT PHASE			0700				GEN	
138			)6L003	EQU	704 TAPE READ INSTRUCTION			0704				GEN	
139			)6M003	EQU	728 TAPE ERROR HANDLER			0728				GEN	
			*									GEN	
140				ORG	201				0201				
141			PHAS31	BSS	)8J003,G		5	0201	B 257 G	GEN	3	257	
142				NOP	TO PATCH IN TRAPS FOR DEBUGGING		1	0206	N	GEN	3		
143			)0J003	EQU	*&1			0207		GEN			
144				LCA	)9J003,)6J003		7	0207	L 281 110	GEN	3	281	110

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
145				BCE	)1J003,)6K003,1	Q: LOADING FROM CARDS?	8	0214	B 250 700 1	GEN	3	250	700
146				BCE	)1J003,)6L003&4,0	Q: LOADING FROM AUTOCODER TAPE?	8	0222	B 250 708 0	GEN	3	250	708
147				RTW	1,LOADAD	READ THE BLOCK	8	0230	L %U1 838 R	GEN	3	%U1	838
148				BER	)6M003	Q: TAPE ERROR?	5	0238	B 728 L	GEN	4	728	
149				CS	BEGN31,)9R003	ENTER THE BLOCK	7	0243	/ 838 285	GEN	4	838	285
150			)1J003	CS	)6K003,)9R003	LOAD CARDS OR AUTOCODER TAPE	7	0250	/ 700 285	GEN	4	700	285
151			)8J003	SW	)9R003		4	0257	, 285	GEN	4	285	
152				MU	%T0,)8K003,W		8	0261	M %T0 273 W	GEN	4	%T0	273
153				H	)0J003		4	0269	. 207	GEN	4	207	
154			)8K003	EQU	*&1			0273		GEN			
155			)9J003	DCW	@STNUM FIVE	PHASE ID	9	0281		GEN	5		
156				DCW	#1		1	0282		GEN	5		
157				DC	@31@	PHASE NUMBER	2	0284		GEN	5		
158			)9R003	DCW	@}@		1	0285		GEN	5		
159				XFR	PHAS31				B 201		5	201	
160			*										
161				ORG	BEGIN3				0838				
162			LOADAD	EQU	*&1	LOAD ADDRESS		0838					
163	838		BEGN31	MCW	X3,SX3		7	0838	M 099 S57		6	099	1257
164	845			MCW	X1,SX1		7	0845	M 089 S60		6	089	1260
165	852			C	0&X3 GET TO		4	0852	C 0?0		6	000+3	
166	856			SAR	X3 TOP ENTRY OF HASH TABLE		4	0856	Q 099		6	099	
167	860			CW	1&X3		4	0860	) 0?1		6	001+3	
168	864			MCW	TBLBOT,X2		7	0864	M 145 094		6	145	094
169	871			C	0&X2		4	0871	C 0!0		6	000+2	
170	875			SAR	X2		4	0875	Q 094		7	094	
171	879			C	X2,SX3		7	0879	C 094 S57		7	094	1257
172	886			BE	DONE		5	0886	B S37 S		7	1237	
173	891			MCW	TBLBOT,SAVBOT		7	0891	M 145 S63		7	145	1263
174	898		TSTFIN	BW	DONE,0&X1		8	0898	V S37 0|0 1		7	1237	000+1
175	906			MCW	0&X1,SEQCOD		7	0906	M 0|0 S67		7	000+1	1267
176	913			C	0&X1 GET BELOW PREFIX		4	0913	C 0|0		8	000+1	
177	917			SAR	X1		4	0917	Q 089		8	089	
178	921			MCW	KB3,W3		7	0921	M S70 S73		8	1270	1273
179	928			BCE	COMPGO,SEQCOD-3,H		8	0928	B 968 S64 H		8	968	1264
180	936			MCW	SEQCOD-3,*&8		7	0936	M S64 950		8	1264	950
181	943			BCE	LABELS,STMTS,0		8	0943	B /78 S79 0		8	1178	1279
182	951			B			1	0951	B		8		
183	952			B			1	0952	B		9		
184	953			B			1	0953	B		9		
185	954			B			1	0954	B		9		
186	955			B			1	0955	B		9		
187	956		ENDSTM	C	0&X1		4	0956	C 0|0		9	000+1	
188	960			SAR	X1		4	0960	Q 089		9	089	
189	964			B	TSTFIN		4	0964	B 898		9	898	
190			*										
191			*			* WAS ORIGINALLY COMPUTED GOTO CODE T, NOW H							
192			*										
193	968		COMPGO	MCW	SAVBOT,X3		7	0968	M S63 099		10	1263	099
194	975		COMP2	C	0&X1,X3		7	0975	C 0|0 099		10	000+1	099

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
195		982		BE	COMP G3	5		0982	B |45 S		10	1045	
196		987		MN	0&X3	4		0987	D 0?0		10	000+3	
197		991		MN		1		0991	D		10		
198		992		MN		1		0992	D		10		
199		993		SAR	X3	4		0993	Q 099		10	099	
200		997		SBR	X2	4		0997	H 094		11	094	
201	1	001	COMPGL	BW	COMP G4, 1&X2	8		1001	V /67 0!1 1		11	1167	001+2
202	1	009		BWZ	COMP G2, 2&X2, 2	8		1009	V 975 0!2 2		11	975	002+2
203	1	017		MCW	3&X2, X2	7		1017	M 0!3 094		11	003+2	094
204	1	024		MZ	NOZONE, X2-1	7		1024	Y S80 093		11	1280	093
205	1	031		MN	0&X2	4		1031	D 0!0		11	000+2	
206	1	035		MN		1		1035	D		11		
207	1	036		MN		1		1036	D		12		
208	1	037		SAR	X2	4		1037	Q 094		12	094	
209	1	041		B	COMPGL	4		1041	B |01		12	1001	
210	1	045	COMP G3	MCW	X3, SAVBOT	7		1045	M 099 S63		12	099	1263
211	1	052	TUNDEF	BCE	ENDSTM, W3,	8		1052	B 956 S73		12	956	1273
212	1	060		BWZ	*&5, SEQCOD, 2	8		1060	V |72 S67 2		12	1072	1267
213	1	068		B	*&9	4		1068	B |80		12	1080	
214	1	072		BWZ	UNDEF, SEQCOD-2, 2	8		1072	V |94 S65 2		13	1094	1265
215	1	080		MCW	SEQCOD, X3	7		1080	M S67 099		13	1267	099
216	1	087		MCW	0&X3, SEQCOD	7		1087	M 0?0 S67		13	000+3	1267
217	1	094	UNDEF	CS	299	4		1094	/ 299		13	299	
218	1	098		SW	GLOBER	4		1098	, 184		13	184	
219	1	102		MCW	ERR21, 210	7		1102	M S90 210		13	1290	210
220	1	109		MCW	MSG21, 253	7		1109	M T28 253		14	1328	253
221	1	116		MN	SEQCOD, 257	7		1116	D S67 257		14	1267	257
222	1	123		MN		1		1123	D		14		
223	1	124		MN		1		1124	D		14		
224	1	125		MCS	W3, 214	7		1125	Z S73 214		14	1273	214
225	1	132		C	W3, K001	7		1132	C S73 T31		14	1273	1331
226	1	139		BU	*&8	5		1139	B /51 /		14	1151	
227	1	144		MCW	KCOM, 243	7		1144	M T33 243		15	1333	243
228	1	151		W		1		1151	2		15		
229	1	152		BCV	*&5	5		1152	B /61 @		15	1161	
230	1	157		B	*&3	4		1157	B /63		15	1163	
231	1	161		CC	1	2		1161	F 1		15		
232	1	163		B	ENDSTM	4		1163	B 956		15	956	
233	1	167	COMP G4	A	K1, W3	7		1167	A T34 S73		15	1334	1273
234	1	174		B	COMP G2	4		1174	B 975		16	975	
235				*									
236				*	STATEMENTS CONTAINING LABELS OF EXECUTABLE STATEMENTS. NOT								
237				*	I/O STATEMENTS CONTAINING FORMAT STATEMENT LABELS.								
238				*									
239	1	178	LABELS	BW	TUNDEF, 0&X1	8		1178	V |52 0|0 1		16	1052	000+1
240	1	186		BCE	TUNDEF, 0&X1, ,	8		1186	B |52 0|0 ,		16	1052	000+1
241	1	194		MCW	0&X1, X3	7		1194	M 0|0 099		16	000+1	099
242	1	201		SAR	X1	4		1201	Q 089		16	089	
243	1	205		MN	0&X3	4		1205	D 0?0		16	000+3	
244	1	209		MN		1		1209	D		16		

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245	1	210		SAR	X3	4		1210	Q 099		17	099	
246	1	214		BW	* &5, 0 & X3	8		1214	V S26 0?0 1		17	1226	000+3
247	1	222		B	LABELS	4		1222	B /78		17	1178	
248	1	226		A	K1, W3	7		1226	A T34 S73		17	1334	1273
249	1	233		B	LABELS	4		1233	B /78		17	1178	
250				*									
251	1	237	DONE	MCW	SX1, X1	7		1237	M S60 089		17	1260	089
252	1	244		MCW	SX3, X3	7		1244	M S57 099		18	1257	099
253	1	270		B	LOADNX	4		1251	B 700		18	700	
254	1	276		SX3	DCW #3	3		1257			18		
255	1	279		SX1	DCW #3	3		1260			18		
256	1	282	SAVBOT	DCW	#3	3		1263			18		
257	1	286	SEQCOD	DCW	#4	4		1267			18		
258	1	289	KB3	DCW	#3	3		1270			18		
259	1	292	W3	DCW	#3	3		1273			19		
260	1	298	STMTS	DCW	@TWEDGK@ CODES FOR STATEMENTS WITH LABELS	6		1279			19		
261	1	299	NOZONE	DCW	#1	1		1280			19		
262	1	309	ERR21	DCW	@ERROR 21 -@	10		1290			19		
263	1	347	MSG21	DCW	@UNDEFINED STATEMENT NUMBERS, STATEMENT@	38		1328			20		
264	1	350	K001	DCW	001	3		1331			21		
265	1	352	KCOM	DCW	@, @	2		1333			21		
266	1	353	K1	DCW	1	1		1334			21		
267	1	361	GMWM	DCW	@}@	1		1335			21		
268				XFR	BEGN31				B 838		21	838	
269			CLRME	CLRA	BEGN31, GMWM, E					MACRO			
			*	CLRA	CLRBOT, CLRTOP [, SS, HERE, GWMAD]					GEN			
			*							GEN			
			*	CLEAR CORE	AFTER A PHASE USING THE CLRTOP ADDRESS					GEN			
			*							GEN			
270				ORG	201				0201				
			*							GEN			
			*	CLEAR DOWN	TO CLRBOT & X00 THE EASY WAY					GEN			
			*							GEN			
271			CLRME	EQU	* &1			0201					
272				BSS	SNAPSH, E	5		0201	B 333 E		22	333	
273			)0J004	CS	GMWM CLEAR FROM CLRTOP	4		0206	/ T35		22	1335	
274				SBR	)0J004&3	4		0210	H 209		22	209	
275				SBR	)0L004&6	4		0214	H 255		22	255	
276				C	)0J004&3,)0M004 DOWN TO CLRBOT & X00?	7		0218	C 209 266		22	209	266
277				BU	)0J004	5		0225	B 206 /		22	206	
			*							GEN			
			*	NOW CLEAR	DOWN TO CLRBOT THE HARD WAY					GEN			
			*							GEN			
278			)0K004	C	)0L004&6,)0N004	7		0230	C 255 269		22	255	269
279				BU	)0L004	5		0237	B 249 /		23	249	
280				CS	LOADNX,)0Q004 LOAD THE NEXT BLOCK AT 1	7		0242	/ 700 276		23	700	276
281			)0L004	LCA	)0P004, 0-0 CLEAR WITH BLANK AND WORD MARK	7		0249	L 270 000		23	270	000
282				SBR	)0L004&6	4		0256	H 255		23	255	
283				B)0K004	4		0260	B 230		23	230	
284)0M004	DSA)0R004 CLRBOT & X00 - 1	3		0266	899		23	899	

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285)0N004	DSA	BEGN31 CLRBOT	3		0269	838	GEN	23	838	
286)0P004	DCW	#1	1		0270		GEN	24		
287				DC	@CLRA @ IDENTIFY IN A DECK, TAPE, OR DUMP	5		0275		GEN	24		
288			)0Q004	DCW	@)@	1		0276		GEN	24		
289				ORG	BEGN31&X00				0900				
290			)0R004	EQU	* CLRBOT & X00 - 1			0899		GEN			
291				XFR	CLRME				B 201		24	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	0281: 0	)9R003	0285: 0
BEGIN3	0838: 0	BEGN31	0838: 0	CDOVLY	0700: 0	CLRME	0201: 0	COMPG2	0975: 0	COMPG3	1045: 0
COMPG4	1167: 0	COMPGL	1001: 0	COMPGO	0968: 0	DONE	1237: 0	ENDSTM	0956: 0	ERR21	1290: 0
GLOBER	0184: 0	GMWM	1335: 0	K001	1331: 0	K1	1334: 0	KB3	1270: 0	KCOM	1333: 0
LABELS	1178: 0	LOADAD	0838: 0	LOADNX	0700: 0	MSG21	1328: 0	NOZONE	1280: 0	PHAS31	0201: 0
PHASLD	0381: 0	SAVBOT	1263: 0	SEQCOD	1267: 0	SNAPEX	0564: 0	SNAPSH	0333: 0	STMTS	1279: 0
SX1	1260: 0	SX3	1257: 0	TBLBOT	0145: 0	TOP3	2600: 0	TPERR	0728: 0	TPREAD	0704: 0
TSTFIN	0898: 0	TUNDEF	1052: 0	UNDEF	1094: 0	W3	1273: 0	X1	0089: 0	X2	0094: 0
X3	0099: 0										

UNREFERENCED SYMBOLS

CDOVLY PHASLD SNAPEX TOP3 TPERR TPREAD