

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR		
101			JOB		FORTRAN COMPILER -- STOP/PAUSE PHASE -- PHASE 42										
102			CTL		6611										
103			*												
104			*		THE PROPER INSTRUCTIONS TO										
105			*		1. HALT										
106			*		2. HALT, CONTINUE, AND DISPLAY THE NUMBER INDICATED										
107			*		ARE GENERATED IN-LINE										
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			*												
116				EXT00	SNAPSH, LOADNX, CDOVLY								MACRO		
117			SNAPSH	EQU	333						0333		GEN		
118			PHASLD	EQU	381						0381		GEN		
119			SNAPEX	EQU	564						0564		GEN		
120			LOADNX	EQU	700						0700		GEN		
121			CDOVLY	EQU	700						0700		GEN		
122			TPREAD	EQU	704						0704		GEN		
123			TPERR	EQU	728						0728		GEN		
124			*												
125				EXT03	START, TOP OF PHASE 3								MACRO		
126			BEGIN3	EQU	838						0838		GEN		
127			TOP3	EQU	2600						2600		GEN		
128			*												
129			PHAS42	LDPH	STOP/PAUSE,LOADAD,BEGN42,,,42								MACRO		
			*	PHAZ	LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]								GEN		
			*	XFR	PHASZ PROHIBITED IN A MACRO								GEN		
			*										GEN		
			*	LOAD	A BLOCK								GEN		
			*										GEN		
130			)6J003	EQU	110						0110		GEN		
131			)6K003	EQU	700						0700		GEN		
132			)6L003	EQU	704						0704		GEN		
133			)6M003	EQU	728						0728		GEN		
134				ORG	201						0201		GEN		
135			PHAS42	EQU	*&1						0201		GEN		
136			LCA	)9J003,	)6J003	7	0201	L	253	110	GEN	1	253	110	
137			BCE	)6K003,	)6K003,1	8	0208	B	700	700	1	GEN	1	700	700
138			BCE	)6K003,	)6L003&4,0	8	0216	B	700	708	0	GEN	1	700	708
139			RTW	1,LOADAD		8	0224	L	%U1	838	R	GEN	1	%U1	838
140			BER	)6M003		5	0232	B	728	L		GEN	1	728	
141			CS	BEGN42,	)9R003	7	0237	/	838	257		GEN	2	838	257
142			)9J003	DCW	@STOP/PAUSE@	10	0253					GEN	2		
143				DC	#1	1	0254					GEN	2		
144				DC	@42@	2	0256					GEN	2		

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145			)9R003	DCW	@}@		1	0257		GEN	2		
146				XFR	PHAS42				B 201		3	201	
147			*										
148				ORG	BEGIN3				0838				
149			LOADAD	EQU	*&1 LOAD ADDRESS			0838					
150	838		BEGN42	CS	299		4	0838	/ 299		4	299	
151	842		LOOP	BCE	DONE,0&X1,		8	0842	B 873 0 0		4	873	000+1
152	850			MCW	0&X1,CODSEQ		7	0850	M 0 0 W02		4	000+1	1602
153	857			BCE	STOPPZ,CODSEQ-3,A PAUSE STATEMENT?		8	0857	B 882 V99 A		4	882	1599
154	865			BCE	STOPPZ,CODSEQ-3,S STOP STATEMENT?		8	0865	B 882 V99 S		4	882	1599
155	873		DONE	BSS	SNAPSH,C		5	0873	B 333 C		5	333	
156	892			B	LOADNX		4	0878	B 700		5	700	
157			*										
158			* STOP		OR PAUSE STATEMENT								
159			*										
160	896		STOPPZ	MCW	KLESS,2&X1		7	0882	M W03 0 2		5	1603	002+1
161	903			SBR	TSTLES&6,2&X1		7	0889	H S44 0 2		5	1244	002+1
162	910			LCA	0&X1,0&X3 SEQNO, CODE, GMWM		7	0896	L 0 0 0?0		5	000+1	000+3
163	917			SAR	X1		4	0903	Q 089		5	089	
164	921			C	0&X3		4	0907	C 0?0		5	000+3	
165	925			SAR	X3		4	0911	Q 099		6	099	
166	929			LCA	1&X3,2&X3 CLOBBER STATEMENT CODE WITH GMWM		7	0915	L 0?1 0?2		6	001+3	002+3
167	936			SBR	X3		4	0922	H 099		6	099	
168	940			BCE	NOCODE,0&X1,}		8	0926	B  55 0 0 } GMARK		6	1055	000+1
169	948			CS	WORK		4	0934	/ V98		6	1598	
170	952			MN	WRKBOT		4	0938	D V00		6	1500	
171	956			MN			1	0942	D		6		
172	957			SAR	X2		4	0943	Q 094		7	094	
173	961			SBR	X1,0&X1		7	0947	H 089 0 0		7	089	000+1
174			*										
175			* MOVE		THE STOP CODE INTO THE WORK AREA								
176			*										
177	968		MOVCOD	MCW	0&X1,W1		7	0954	M 0 0 W04		7	000+1	1604
178	975			SAR	X1		4	0961	Q 089		7	089	
179	979			BW	GOTWM,1&X1		8	0965	V 988 0 1 1		7	988	001+1
180	987			MCW	W1,2&X2		7	0973	M W04 0!2		7	1604	002+2
181	994			SBR	X2		4	0980	H 094		8	094	
182	998			B	MOVCOD		4	0984	B 954		8	954	
183			*										
184	1 002		GOTWM	SW	WRKBOT		4	0988	, V00		8	1500	
185	1 006			BCE	TWOTST,WRKBOT&3, ONE, TWO OR THREE DIGITS?		8	0992	B  28 V03		8	1028	1503
186	1 014			MCW	ERR35,222		7	1000	M T01 222		8	1301	222
187	1 021			MCW	MSG,247		7	1007	M T19 247		8	1319	247
188	1 028			MCW	WRKBOT&4,228		7	1014	M V04 228		9	1504	228
189	1 035			MCW	WRKBOT&2,251		7	1021	M V02 251		9	1502	251
190	1 042		TWOTST	BCE	TWODIG,WRKBOT&2, ONE OR TWO DIGITS?		8	1028	B  40 V02		9	1040	1502
191	1 050			B	GOTCOD		4	1036	B  70		9	1070	
192	1 054		TWODIG	MCW	WRKBOT&1,WRKBOT&2		7	1040	M V01 V02		9	1501	1502
193	1 061			MCW	K0		4	1047	M W05		9	1605	
194	1 065			B	TWOTST		4	1051	B  28		10	1028	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
195	1	069	NOCODE	LCA	K000,WRKBOT&2 USE 000 FOR HALT CODE	7		1055	L W08 V02		10	1608	1502
196	1	076		C	0&X1	4		1062	C 0 0		10	000+1	
197	1	080		SAR	X1	4		1066	Q 089		10	089	
198	1	084	GOTCOD	MCW	WRKBOT&2,W3	7		1070	M V02 W11		10	1502	1611
199	1	091		A	K0,WRKBOT&3	7		1077	A W05 V03		10	1605	1503
200	1	098		C	WRKBOT&2,W3 CODE IS NUMERIC?	7		1084	C V02 W11		11	1502	1611
201	1	105		BE	NOZONE YES	5		1091	B /56 S		11	1156	
202	1	110		BCE	NOTYET,201, SHOWED A MESSAGE YET?	8		1096	B /17 201		11	1117	201
203	1	118	CLRCOD	MZ	K3B,251 CLEAR THE CODE IN THE MESSAGE	7		1104	Y W14 251		11	1614	251
204	1	125		MZ		1		1111	Y		11		
205	1	126		MZ		1		1112	Y		11		
206	1	127		B	NOZONE	4		1113	B /56		11	1156	
207	1	131	NOTYET	MCW	ERR35,222	7		1117	M T01 222		12	1301	222
208	1	138		MCW	MSG,247	7		1124	M T19 247		12	1319	247
209	1	145		MCW	WRKBOT&2,226	7		1131	M V02 226		12	1502	226
210	1	152		MCW	WRKBOT&2,251	7		1138	M V02 251		12	1502	251
211	1	159		MCW	K3B-2,223	7		1145	M W12 223		12	1612	223
212	1	166		B	CLRCOD	4		1152	B /04		12	1104	
213	1	170	NOZONE	BCE	NOMSG,201,	8		1156	B /80 201		13	1180	201
214	1	178		W		1		1164	2		13		
215	1	179		BCV	*&5	5		1165	B /74 @		13	1174	
216	1	184		B	*&3	4		1170	B /76		13	1176	
217	1	188		CC	1	2		1174	F 1		13		
218	1	190		CS	299	4		1176	/ 299		13	299	
219	1	194	NOMSG	CW	WRKBOT	4		1180	) V00		13	1500	
220	1	198		BCE	PAUSE,CODSEQ-3,A	8		1184	B S19 V99 A		14	1219	1599
221	1	206		LCA	BRANCH&3,0&X3 BRANCH BACK TO NOP	7		1192	L W18 0?0		14	1618	000+3
222	1	213		LCA	HALTOP HALT	4		1199	L W19		14	1619	
223	1	217		LCA	WRKBOT&2 NOP WITH STOP CODE	4		1203	L V02		14	1502	
224	1	221		LCA	1&X1 GMWM	4		1207	L 0 1		14	001+1	
225	1	225		SBR	X3	4		1211	H 099		14	099	
226	1	229		B	TSTLES	4		1215	B S38		14	1238	
227	1	233	PAUSE	LCA	HALTOP,0&X3 HALT	7		1219	L W19 0?0		15	1619	000+3
228	1	240		LCA	WRKBOT&2 NOP WITH STOP CODE	4		1226	L V02		15	1502	
229	1	244		LCA	1&X1 GMWM	4		1230	L 0 1		15	001+1	
230	1	248		SBR	X3	4		1234	H 099		15	099	
231	1	252	TSTLES	BCE	LOOP,0-0,< NOT TOO BIG IF LESS-THAN NOT CLOBBBERED	8		1238	B 842 000 <		15	842	000
232	1	260		CS	332	4		1246	/ 332		15	332	
233	1	264		CS		1		1250	/		15		
234	1	265		CC	1	2		1251	F 1		16		
235	1	267		MCW	ERROR2,270	7		1253	M W55 270		16	1655	270
236	1	274		W		1		1260	2		16		
237	1	275		CC	1	2		1261	F 1		16		
238	1	277		BCE	HALT,CDOVLY,1	8		1263	B S76 700 1		16	1276	700
239	1	285		RWD	1	5		1271	U %U1 R		16	%U1	
240	1	290	HALT	H	HALT	4		1276	. S76		16	1276	
241	1	315	ERR35	DCW	@ERROR 35 - HALT NUMBER@	22		1301			17		
242	1	333	MSG	DCW	@TO BE DISPLAYED AS@	18		1319			18		
243	1	364		DC	@	31		1350			19		
244				ORG	1499				1499				

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
245	1	499		DCW	@N@		1	1499			20		
246	1	500	WRKBOT	EQU	*&1			1500					
247	1	548		DC	@	@	49	1548			22		
248				ORG	1599				1599				
249	1	598	WORK	EQU	*			1598					
250	1	602	CODSEQ	DCW	#4 STATEMENT CODE AND SEQUENCE NUMBER		4	1602			23		
251	1	608	KLESS	DCW	@<@		1	1603			23		
252	1	609	W1	DCW	#1		1	1604			23		
253	1	610	K0	DCW	0		1	1605			23		
254	1	613	K000	DCW	000		3	1608			23		
255	1	616	W3	DCW	#3		3	1611			23		
256	1	619	K3B	DCW	#3		3	1614			23		
257	1	620	BRANCH	B	15992&X3		4	1615	B IIB		24	15992+3	
258	1	624	HALTOP	H			1	1619	.		24		
259	1	660	ERROR2	DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@		36	1655			25		
260	1	661	GMWM	DCW	@}@		1	1656		GMARK	25		
261				XFR	BEGN42				B 838		26	838	
262			CLRME	CLRA	BEGN42,GMWM					MACRO			
			*	CLRA	CLRBOT,CLRTOP[,ORG,GMWMAD]					GEN			
			*							GEN			
			*	CLEAR CORE	AFTER A PHASE USING THE CLRTOP ADDRESS					GEN			
			*							GEN			
263			ORG		201				0201				
			*							GEN			
			*	CLEAR DOWN	TO CLRBOT & X00 THE EASY WAY					GEN			
			*							GEN			
264			CLRME	EQU	*&1			0201		GEN			
265			)0J004	CS	GMWM CLEAR FROM CLRTOP		4	0201	/ W56	GEN	27	1656	
266				SBR	)0J004&3		4	0205	H 204	GEN	27	204	
267				SBR	)0L004&6		4	0209	H 250	GEN	27	250	
268				C	)0J004&3,)0M004 DOWN TO CLRBOT & X00?		7	0213	C 204 261	GEN	27	204	261
269				BU	)0J004		5	0220	B 201 /	GEN	27	201	
			*							GEN			
			*	NOW CLEAR	DOWN TO CLRBOT THE HARD WAY					GEN			
			*							GEN			
270			)0K004	C	)0L004&6,)0N004		7	0225	C 250 264	GEN	27	250	264
271				BU	)0L004		5	0232	B 244 /	GEN	27	244	
272				CS	LOADNX,)0Q004 LOAD THE NEXT BLOCK AT 1		7	0237	/ 700 271	GEN	28	700	271
273			)0L004	LCA	)0P004,0-0 CLEAR WITH BLANK AND WORD MARK		7	0244	L 265 000	GEN	28	265	000
274				SBR	)0L004&6		4	0251	H 250	GEN	28	250	
275				B	)0K004		4	0255	B 225	GEN	28	225	
276			)0M004	DSA	)0R004 CLRBOT & X00 - 1		3	0261	899	GEN	28	899	
277			)0N004	DSA	BEGN42 CLRBOT		3	0264	838	GEN	28	838	
278			)0P004	DCW	#1		1	0265		GEN	28		
279				DC	@CLRA @ IDENTIFY IN A DECK, TAPE, OR DUMP		5	0270		GEN	28		
280			)0Q004	DCW	@}@		1	0271		GEN	29		
281				ORG	BEGN42&X00				0900				
282			)0R004	EQU	* CLRBOT & X00 - 1			0899		GEN			
283				XFR	CLRME				B 201		30	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	0253: 0	)9R003	0257: 0	BEGIN3	0838: 0	BEGN42	0838: 0	BRANCH	1615: 0	CDOVLY	0700: 0
CLRCOD	1104: 0	CLRME	0201: 0	CODSEQ	1602: 0	DONE	0873: 0	ERR35	1301: 0	ERROR2	1655: 0
GMWM	1656: 0	GOTCOD	1070: 0	GOTWM	0988: 0	HALT	1276: 0	HALTOP	1619: 0	K0	1605: 0
K000	1608: 0	K3B	1614: 0	KLESS	1603: 0	LOADAD	0838: 0	LOADNX	0700: 0	LOOP	0842: 0
MOVCOB	0954: 0	MSG	1319: 0	NOCODE	1055: 0	NOMSG	1180: 0	NOTYET	1117: 0	NOZONE	1156: 0
PAUSE	1219: 0	PHAS42	0201: 0	PHASLD	0381: 0	SNAPEX	0564: 0	SNAPSH	0333: 0	STOPPZ	0882: 0
TOP3	2600: 0	TPERR	0728: 0	TPREAD	0704: 0	TSTLES	1238: 0	TWODIG	1040: 0	TWOTST	1028: 0
W1	1604: 0	W3	1611: 0	WORK	1598: 0	WRKBOT	1500: 0	X1	0089: 0	X2	0094: 0
X3	0099: 0										

## UNREFERENCED SYMBOLS

PHASLD SNAPEX TOP3 TPERR TPREAD