

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
101			JOB		FORTRAN COMPILER -- REPLACE PHASE ONE -- PHASE 51								
102			CTL		6611								
103			*										
104			*		OBJECT-TIME INSTRUCTIONS WHICH REFERENCE STATEMENT NUMBERS								
105			*		ARE CORRECTED TO THE OBJECT-TIME ADDRESSES OF THE								
106			*		STATEMENT. SUBSCRIPT STRINGS ARE CLEANED UP.								
107			*										
108			X1	EQU	89			0089					
109			X2	EQU	94			0094					
110			X3	EQU	99			0099					
111			*										
112			*		STUFF IN THE RESIDENT AREA								
113			*										
114			SUBSCR	EQU	116 WM CLEARED IF SUBSCRIPT CODE NEEDED			0116					
115			SEQTAB	EQU	148 BOTTOM OF SEQUENCE NUMBER TABLE - 2			0148					
116			BOTFMT	EQU	154 BOTTOM OF FORMAT STRINGS OR NUMBER TABLE - 1			0154					
117			NEGARY	EQU	163 16000 - ARYSIZ			0163					
118			*										
119			EXT00		SNAPSH, LOADNX, CDOVLY					MACRO			
120			SNAPSH	EQU	333			0333		GEN			
121			PHASLD	EQU	381			0381		GEN			
122			SNAPEX	EQU	564			0564		GEN			
123			LOADNX	EQU	700 CARD OVERLAY UNLESS NOP			0700		GEN			
124			CDOVLY	EQU	700 1 IF LOADING FROM CARDS, N IF FROM TAPE			0700		GEN			
125			TPREAD	EQU	704 LOAD OVERLAY FROM TAPE			0704		GEN			
126			TPERR	EQU	728			0728		GEN			
127			*										
128			EXT03		START, TOP OF PHASE 3					MACRO			
129			BEGIN3	EQU	838			0838		GEN			
130			TOP3	EQU	2600			2600		GEN			
131			*										
132			*		RUNTIME ROUTINES								
133			*										
134			ARITF	EQU	700 ARITHMETIC INTERPRETER			0700					
135			*										
136			PHAS51	LDPH	REPLACE 1,LOADAD,BEGN51,,,51					MACRO			
			*	PHAZ	LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]					GEN			
			*	XFR	PHASZ PROHIBITED IN A MACRO					GEN			
			*							GEN			
			*	LOAD	A BLOCK					GEN			
			*							GEN			
137			)6J003	EQU	110 PHASE ID			0110		GEN			
138			)6K003	EQU	700 LOAD NEXT PHASE			0700		GEN			
139			)6L003	EQU	704 TAPE READ INSTRUCTION			0704		GEN			
140			)6M003	EQU	728 TAPE ERROR HANDLER			0728		GEN			
			*							GEN			
141			ORG		201				0201				
142			PHAS51	EQU	*&1			0201		GEN			
143			LCA		)9J003,)6J003		7	0201	L 252 110	GEN	1	252	110
144			BCE		)6K003,)6K003,1 Q: LOADING FROM CARDS?		8	0208	B 700 700 1	GEN	1	700	700

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
145				BCE	)6K003,)6L003&4,0	Q: LOADING FROM AUTOCODER TAPE?	8	0216	B 700 708 0	GEN	1	700	708
146				RTW	1,LOADAD	READ THE BLOCK	8	0224	L %U1 838 R	GEN	1	%U1	838
147				BER	)6M003	Q: TAPE ERROR?	5	0232	B 728 L	GEN	1	728	
148				CS	BEGN51,)9R003	ENTER THE BLOCK	7	0237	/ 838 256	GEN	2	838	256
149			)9J003	DCW	@REPLACE 1@	PHASE ID	9	0252		GEN	2		
150				DC	#1		1	0253		GEN	2		
151				DC	@51@	PHASE NUMBER	2	0255		GEN	2		
152			)9R003	DCW	@}@		1	0256		GEN	2		
153				XFR	PHAS51				B 201		3	201	
154			*										
155				ORG	BEGIN3				0838				
156			LOADAD	EQU	*&1			0838					
157	838		BEGN51	MCW	X3,SX3		7	0838	M 099 S28		4	099	1228
158	845			MCW	SEQTAB,*&7		7	0845	M 148 858		4	148	858
159	852			MCW	KGREAT,0		7	0852	M S29 000		4	1229	000
160	859			MCW	BOTFMT,X2		7	0859	M 154 094		4	154	094
161	866			MCW	KGREAT,1600		7	0866	M S29 W00		4	1229	1600
162	873		GETSUB	BCE	FIND,0&X2,\$	WITHIN TEN OF TOP OF SUBSCRIPT? V3M4	8	0873	B S40 0!0 \$		5	1240	000+2
163	881			CHAIN	9					MACRO			
164				BCE			1	0881	B	GEN	5		
165				BCE			1	0882	B	GEN	5		
166				BCE			1	0883	B	GEN	5		
167				BCE			1	0884	B	GEN	5		
168				BCE			1	0885	B	GEN	5		
169				BCE			1	0886	B	GEN	5		
170				BCE			1	0887	B	GEN	6		
171				BCE			1	0888	B	GEN	6		
172				BCE			1	0889	B	GEN	6		
173	890		BOTEX	BCE	BOTTOM,0&X2,>	GREATER SIGN BELOW CODE?	8	0890	B |15 0!0 >		6	1015	000+2
174	898			CHAIN	9					MACRO			
175				BCE			1	0898	B	GEN	6		
176				BCE			1	0899	B	GEN	6		
177				BCE			1	0900	B	GEN	6		
178				BCE			1	0901	B	GEN	7		
179				BCE			1	0902	B	GEN	7		
180				BCE			1	0903	B	GEN	7		
181				BCE			1	0904	B	GEN	7		
182				BCE			1	0905	B	GEN	7		
183				BCE			1	0906	B	GEN	7		
184	907			SBR	X2		4	0907	H 094		7	094	
185	911			B	GETSUB		4	0911	B 873		8	873	
186	915		GETSB2	BCE	SUBTOP,0&X2,\$	TOP OF SUBSCRIPT?	8	0915	B 931 0!0 \$		8	931	000+2
187	923			SBR	X2		4	0923	H 094		8	094	
188	927			B	GETSB2		4	0927	B 915		8	915	
189	931		SUBTOP	MN	0&X2		4	0931	D 0!0		8	000+2	
190	935			SAR	X2		4	0935	Q 094		8	094	
191	939			BCE	SUBBOT,0&X2,\$	WITHIN 16 OF BOTTOM OF SUBSCRIPT?	8	0939	B 966 0!0 \$		8	966	000+2
192	947			CHAIN	15					MACRO			
193				BCE			1	0947	B	GEN	9		
194				BCE			1	0948	B	GEN	9		

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195				BCE		1		0949	B	GEN	9		
196				BCE		1		0950	B	GEN	9		
197				BCE		1		0951	B	GEN	9		
198				BCE		1		0952	B	GEN	9		
199				BCE		1		0953	B	GEN	9		
200				BCE		1		0954	B	GEN	10		
201				BCE		1		0955	B	GEN	10		
202				BCE		1		0956	B	GEN	10		
203				BCE		1		0957	B	GEN	10		
204				BCE		1		0958	B	GEN	10		
205				BCE		1		0959	B	GEN	10		
206				BCE		1		0960	B	GEN	10		
207				BCE		1		0961	B	GEN	11		
208	962			B	GETSUB	4		0962	B 873		11	873	
209	966	SUBBOT	CW		SUBSCR	4		0966	) 116		11	116	
210	970	DEC3	MN		0&X2	4		0970	D 0!0		11	000+2	
211	974		MN			1		0974	D		11		
212	975		MN			1		0975	D		11		
213	976		SAR		X2	4		0976	Q 094		11	094	
214	980		SW		1&X2	4		0980	, 0!1		12	001+2	
215	984		BCE		DEC1, 0&X2, \$	8		0984	B |03 0!0 \$		12	1003	000+2
216	992		MZ		*-4, 2&X2	7		0992	Y 994 0!2		12	994	002+2
217	999		B		DEC3	4		0999	B 970		12	970	
218	1 003	DEC1	MN		0&X2	4		1003	D 0!0		12	000+2	
219	1 007		SAR		X2	4		1007	Q 094		12	094	
220	1 011		B		GETSUB	4		1011	B 873		12	873	
221	1 015	BOTTOM	MCW		APASS2, BOTEX&3	7		1015	M S32 893		13	1232	893
222	1 022		MCW		X3, X2	7		1022	M 099 094		13	099	094
223	1 029		B		GETSUB	4		1029	B 873		13	873	
224	1 033	PASS2X	BCE		DONE, 0&X3,	8		1033	B S10 0?0		13	1210	000+3
225	1 041		MCW		X3, LINK&6	7		1041	M 099 /37		13	099	1137
226	1 048		C		0&X3	4		1048	C 0?0		13	000+3	
227	1 052		SBR		X2	4		1052	H 094		14	094	
228	1 056		SBR		X3	4		1056	H 099		14	099	
229	1 060		BCE		TARITF, 1&X3, |	8		1060	B /74 0?1 |		14	1174	001+3
230	1 068	TESTWM	BW		PASS2X, 4&X2	8		1068	V |33 0!4 1		14	1033	004+2
231	1 076		BWZ			1		1076	V		14		
232	1 077		BWZ			1		1077	V		14		
233	1 078		BM		NOLINK, 3&X2	8		1078	V /42 0!3 K		14	1142	003+2
234	1 086		C		4&X2, A277X3	7		1086	C 0!4 S35		15	004+2	1235
235	1 093		BE		PASS2X	5		1093	B |33 S		15	1033	
236	1 098		BWZ		ADDLNK, 3&X2, B	8		1098	V /17 0!3 B		15	1117	003+2
237	1 106	BUMPX2	SBR		X2, 3&X2	7		1106	H 094 0!3		15	094	003+2
238	1 113		B		TESTWM	4		1113	B |68		15	1068	
239	1 117	ADDLNK	MCW		4&X2, X1 WHY NOT JUST MA 4&X2, LINK&6 ???	7		1117	M 0!4 089		15	004+2	089
240	1 124		MZ		*-6, *&6 X1 TAG	7		1124	Y /24 /36		16	1124	1136
241	1 131	LINK	SBR		4&X2, 0	7		1131	H 0!4 000		16	004+2	000
242	1 138		B		BUMPX2	4		1138	B /06		16	1106	
243	1 142	NOLINK	MCW		4&X2, X1	7		1142	M 0!4 089		16	004+2	089
244	1 149		MA		NEGARY, X1	7		1149	# 163 089		16	163	089

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245	1	156		MCW	0&X1,X1	7		1156	M 0 0 089		16	000+1	089
246	1	163		MCW	X1,4&X2	7		1163	M 089 0!4		17	089	004+2
247	1	170		B	BUMPX2	4		1170	B /06		17	1106	
248	1	174	TARITF	BW	*&5,2&X3 NEED TO LOOK FOR BRANCH TO ARITF?	8		1174	V /86 0?2 1		17	1186	002+3
249	1	182		B	PASS2X	4		1182	B |33		17	1033	
250	1	186	FARITF	C	0&X3 FIND THE BRANCH TO ARITF	4		1186	C 0?0		17	000+3	
251	1	190		SBR	X3	4		1190	H 099		17	099	
252	1	194		C	4&X3,BARITF&3 BRANCH TO ARITHMETIC INTERPRETER?	7		1194	C 0?4 S39		17	004+3	1239
253	1	201		BE	PASS2X YES	5		1201	B |33 S		18	1033	
254	1	206		B	FARITF NO, LOOK AGAIN	4		1206	B /86		18	1186	
255	1	210	DONE	MCW	SX3,X3	7		1210	M S28 099		18	1228	099
256	1	217		BSS	SNAPSH,B ??? CHANGE BACK TO C LATER	5		1217	B 333 B		18	333	
257	1	243		B	LOADNX	4		1222	B 700		18	700	
258	1	249		DCW	#3	3		1228			18		
259	1	250		KGREAT	DCW @>@ GREATER THAN SIGN	1		1229			18		
260	1	253		APASS2	DSA PASS2X	3		1232	|33		19	1033	
261	1	256		A277X3	DSA 277&X3	3		1235	2G7		19	277	
262	1	257		BARITF	B ARITF	4		1236	B 700		19	700	
263					* PATCHES IN V3M4								
264	1	271	FIND	BCE	BOTEX,0&X2,> GREATER SIGN BELOW CODE? V3M4	8		1240	B 890 0!0 >		19	890	000+2
265	1	279		BCE	SUBTOP,0&X2,\$ TOP OF SUBSCRIPT? V3M4	8		1248	B 931 0!0 \$		19	931	000+2
266	1	287		SBR	X2 V3M4	4		1256	H 094		19	094	
267	1	291		BIN	FIND, V3M4	5		1260	B S40		19	1240	
268	1	296	GMWM	DCW	@}@	1		1265		GMARK	20		
269				XFR	BEGN51				B 838		21	838	
270			CLRME	CLRA	BEGN51,GMWM					MACRO			
			*	CLRA	CLRBOT,CLRTOP[,ORG,GMWMAD]					GEN			
			*							GEN			
			*		CLEAR CORE AFTER A PHASE USING THE CLRTOP ADDRESS					GEN			
			*							GEN			
271			ORG		201				0201				
			*							GEN			
			*		CLEAR DOWN TO CLRBOT & X00 THE EASY WAY					GEN			
			*							GEN			
272			CLRME	EQU	*&1			0201		GEN			
273			)0J004	CS	GMWM CLEAR FROM CLRTOP	4		0201	/ S65	GEN	22	1265	
274				SBR	)0J004&3	4		0205	H 204	GEN	22	204	
275				SBR	)0L004&6	4		0209	H 250	GEN	22	250	
276				C	)0J004&3,)0M004 DOWN TO CLRBOT & X00?	7		0213	C 204 261	GEN	22	204	261
277				BU	)0J004	5		0220	B 201 /	GEN	22	201	
			*							GEN			
			*		NOW CLEAR DOWN TO CLRBOT THE HARD WAY					GEN			
			*							GEN			
278			)0K004	C	)0L004&6,)0N004	7		0225	C 250 264	GEN	22	250	264
279				BU	)0L004	5		0232	B 244 /	GEN	22	244	
280				CS	LOADNX,)0Q004 LOAD THE NEXT BLOCK AT 1	7		0237	/ 700 271	GEN	23	700	271
281			)0L004	LCA	)0P004,0-0 CLEAR WITH BLANK AND WORD MARK	7		0244	L 265 000	GEN	23	265	000
282				SBR	)0L004&6	4		0251	H 250	GEN	23	250	
283				B	)0K004	4		0255	B 225	GEN	23	225	
284			)0M004	DSA	)0R004 CLRBOT & X00 - 1	3		0261	899	GEN	23	899	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
285			)0N004	DSA	BEGN51 CLRBOT	3		0264	838	GEN	23	838	
286			)0P004	DCW	#1	1		0265		GEN	23		
287				DC	@CLRA @ IDENTIFY IN A DECK, TAPE, OR DUMP	5		0270		GEN	23		
288			)0Q004	DCW	@)@	1		0271		GEN	24		
289				ORG	BEGN51&X00				0900				
290			)0R004	EQU	* CLRBOT & X00 - 1			0899		GEN			
291				XFR	CLRME				B 201		25	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	0252: 0	)9R003	0256: 0	A277X3	1235: 0	ADDLNK	1117: 0	APASS2	1232: 0	ARITF	0700: 0
BARITF	1236: 0	BEGIN3	0838: 0	BEGN51	0838: 0	BOTEX	0890: 0	BOTFMT	0154: 0	BOTTOM	1015: 0
BUMPX2	1106: 0	CDOVLY	0700: 0	CLRME	0201: 0	DEC1	1003: 0	DEC3	0970: 0	DONE	1210: 0
FARITF	1186: 0	FIND	1240: 0	GETSB2	0915: 0	GETSUB	0873: 0	GMWM	1265: 0	KGREAT	1229: 0
LINK	1131: 0	LOADAD	0838: 0	LOADNX	0700: 0	NEGARY	0163: 0	NOLINK	1142: 0	PASS2X	1033: 0
PHAS51	0201: 0	PHASLD	0381: 0	SEQTAB	0148: 0	SNAPEX	0564: 0	SNAPSH	0333: 0	SUBBOT	0966: 0
SUBSCR	0116: 0	SUBTOP	0931: 0	SX3	1228: 0	TARITF	1174: 0	TESTWM	1068: 0	TOP3	2600: 0
TPERR	0728: 0	TPREAD	0704: 0	X1	0089: 0	X2	0094: 0	X3	0099: 0		

UNREFERENCED SYMBOLS

CDOVLY PHASLD SNAPEX TOP3 TPERR TPREAD