

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
101				JOB	FORTRAN COMPILER -- SHIFT CFL PHASE -- PHASE 50B								
102				CTL	6611								
103				*									
104				*	CONSTANTS, FORMATS AND LIST STRINGS ARE MOVED INTO THEIR								
105				*	OBJECT CORE-STORAGE LOCATIONS ABOVE ARRAY STORAGE. ARRAY								
106				*	STORAGE-AREA IS CLEARED.								
107				*									
108				*	ON ENTRY X3 IS AT THE TOP OF THE MOVED-DOWN CODE.								
109				*									
110				X1	EQU 89						0089		
111				X2	EQU 94						0094		
112				X3	EQU 99						0099		
113				*									
114				*	STUFF IN THE RESIDENT AREA								
115				*									
116				TBLBOT	EQU 145 ONE BELOW NUMBERS, FORMATS, I/O LISTS						0145		
117				SEQTAB	EQU 148 BOTTOM OF SEQUENCE NUMBER TABLE - 2						0148		
118				ARYSIZ	EQU 160 TOTAL ARRAY SIZE & 2						0160		
119				NEGARY	EQU 163 16000 - ARYSIZ						0163		
120				ARYTOP	EQU 194 TOP OF ARRAYS IN OBJECT CODE						0194		
121				TOPCOR	EQU 688 TOP CORE ADDRESS FROM PARAM CARD						0688		
122				*									
123				EXT00	SNAPSH, LOADNX, CDOVLY								MACRO
124				SNAPSH	EQU 333						0333		GEN
125				PHASLD	EQU 381						0381		GEN
126				SNAPEX	EQU 564						0564		GEN
127				LOADNX	EQU 700 CARD OVERLAY UNLESS NOP						0700		GEN
128				CDOVLY	EQU 700 1 IF LOADING FROM CARDS, N IF FROM TAPE						0700		GEN
129				TPREAD	EQU 704 LOAD OVERLAY FROM TAPE						0704		GEN
130				TPERR	EQU 728						0728		GEN
131				*									
132				EXT03	START, TOP OF PHASE 3								MACRO
133				BEGIN3	EQU 838						0838		GEN
134				TOP3	EQU 2600						2600		GEN
135				SFX	<								
136				EXT47	STUFF IN RESORT PHASE ONE -- 47								MACRO
137				TOPA	EQU 841 TABBOT PLUS 3 X NUMBER OF STATEMENTS	<					0841		GEN
138				SX3A	EQU 844 USED ONLY IN PHASE 48 AND 49	<					0844		GEN
139				TABBOT	EQU 847 BOTTOM OF RESORT TABLE	<					0847		GEN
140				NEXT	EQU 850 USED ONLY IN PHASE 49	<					0850		GEN
141				SX2	EQU 853 USED ONLY IN PHASE 48 AND 49	<					0853		GEN
142				SX3B	EQU 856	<					0856		GEN
143				W3	EQU 859 USED ONLY IN PHASE 48 AND 49	<					0859		GEN
144				TOPC	EQU 862 TABBOT PLUS 3 X NUMBER OF STATEMENTS PLUS 1	<					0862		GEN
145				SEQNO	EQU 865 USED ONLY IN PHASE 48 AND 49	<					0865		GEN
146				TOPC5	EQU 870 TOPC AS FIVE DIGITS	<					0870		GEN
147				TIMES6	EQU 875 DOCNT TIMES 6	<					0875		GEN
148				W5	EQU 880 USED ONLY IN PHASE 49	<					0880		GEN
149				TOPB	EQU 883 TABBOT PLUS 3 X NUMBER OF STATEMENTS PLUS 1	<					0883		GEN
150				FLAG	EQU 884 USED ONLY IN PHASE 48 AND 49	<					0884		GEN

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
151			ADR5B	EQU	891	<		0891		GEN			
152			ADR5	EQU	896	<		0896		GEN			
153			CONV53	EQU	929	<		0929		GEN			
154			CONV35	EQU	969	<		0969		GEN			
155			FINDGM	EQU	1052	<		1052		GEN			
156			TOOBIG	EQU	1092	<		1092		GEN			
157			BEGN47	EQU	1175	<		1175		GEN			
158				SFX									
159			*										
160			* ADR5B	EQU	891								
161			* ADR5	EQU	896								
162			* CONV35	EQU	969								
163			* TOOBIG	EQU	1092								
164			*										
165			PHS50B	LDPH	SHIFT CFL,LOADAD,BEG50B,,50B					MACRO			
			* PHAZ	LDPH	[PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]					GEN			
			* XFR	PHASZ	PROHIBITED IN A MACRO					GEN			
			*							GEN			
			* LOAD A BLOCK							GEN			
			*							GEN			
166			)6J004	EQU	110 PHASE ID			0110		GEN			
167			)6K004	EQU	700 LOAD NEXT PHASE			0700		GEN			
168			)6L004	EQU	704 TAPE READ INSTRUCTION			0704		GEN			
169			)6M004	EQU	728 TAPE ERROR HANDLER			0728		GEN			
			*							GEN			
170				ORG	201				0201				
171			PHS50B	EQU	*&1			0201		GEN			
172				LCA	)9J004,)6J004	7		0201	L 252 110	GEN	1	252	110
173				BCE	)6K004,)6K004,1	8		0208	B 700 700 1	GEN	1	700	700
174				BCE	)6K004,)6L004&4,0	8		0216	B 700 708 0	GEN	1	700	708
175				RTW	1,LOADAD	8		0224	L %U1 /75 R	GEN	1	%U1	1175
176				BER	)6M004	5		0232	B 728 L	GEN	1	728	
177				CS	BEG50B,)9R004	7		0237	/ /75 257	GEN	2	1175	257
178			)9J004	DCW	@SHIFT CFL@	9		0252		GEN	2		
179				DC	#1	1		0253		GEN	2		
180				DC	@50B@ PHASE NUMBER	3		0256		GEN	2		
181			)9R004	DCW	@}@	1		0257		GEN	2		
182				XFR	PHS50B				B 201		3	201	
183			*										
184				ORG	BEGN47				1175				
185			LOADAD	EQU	*&1			1175					
186	1	175	BEG50B	C	TOPCOR,ARYTOP	7		1175	C 688 194		4	688	194
187	1	182		BE	DONE	5		1182	B V49 S		4	1549	
188	1	187		MCW	SEQTAB,X1	7		1187	M 148 089		4	148	089
189	1	194		MCW	SEQTAB,X2	7		1194	M 148 094		4	148	094
190	1	201		MA	NEGARY,X2	7		1201	# 163 094		4	163	094
191	1	208		SBR	SX3&6,0&X3	7		1208	H U89 0?0		5	1489	000+3
192	1	215		CW	ADR5 <-2	4		1215	) 894		5	894	
193	1	219		MCW	X2,ADR5 <	7		1219	M 094 896		5	094	896
194	1	226		B	CONV35	4		1226	B 969		5	969	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
195	1	230		MCW	ADR5B<,W5A	7		1230	M 891 V62		5	891	1562
196	1	237		MCW	X3,ADR5 <	7		1237	M 099 896		5	099	896
197	1	244		B	CONV35	4		1244	B 969		6	969	
198	1	248		MCW	ADR5B<,W5B	7		1248	M 891 V67		6	891	1567
199	1	255		C	W5A,W5B	7		1255	C V62 V67		6	1562	1567
200	1	262		BH	TOOBIG	5		1262	B |92 U		6	1092	
201	1	267		MCW	SEQTAB,ADR5 <	7		1267	M 148 896		6	148	896
202	1	274		B	CONV35	4		1274	B 969		6	969	
203	1	278		MCW	ADR5B<,W5C	7		1278	M 891 V72		7	891	1572
204	1	285		MCW	ARYTOP,ADR5 <	7		1285	M 194 896		7	194	896
205	1	292		B	CONV35	4		1292	B 969		7	969	
206	1	296		MCW	ADR5B<,W5D	7		1296	M 891 V77		7	891	1577
207	1	303		C	W5C,W5D	7		1303	C V72 V77		7	1572	1577
208	1	310		BIN	TESTMV,	5		1310	B V83		7	1583	
209				*									
210				*	MOVE SEQUENCE NUMBER TABLE DOWN BY THE ARRAY SIZE								
211				*									
212	1	315	SEQMV	MA	KA001,X1	7		1315	# V80 089		8	1580	089
213	1	322		MA	KA001,X2	7		1322	# V80 094		8	1580	094
214	1	329		BW	SEQMV3,0&X1	8		1329	V T82 0|0 1		8	1382	000+1
215	1	337		CW	0&X2	4		1337	) 0!0		8	000+2	
216	1	341		MN	0&X1,0&X2	7		1341	D 0|0 0!0		8	000+1	000+2
217	1	348		MZ	0&X1,0&X2	7		1348	Y 0|0 0!0		9	000+1	000+2
218	1	355	SEQMV2	CW	0&X1	4		1355	) 0|0		9	000+1	
219	1	359		C	X1,ARYTOP	7		1359	C 089 194		9	089	194
220	1	366		BU	SEQMV	5		1366	B T15 /		9	1315	
221	1	371		MCW	ARYTOP,X3	7		1371	M 194 099		9	194	099
222	1	378		B	NOSQV2	4		1378	B U00		9	1400	
223	1	382	SEQMV3	LCA	0&X1,0&X2	7		1382	L 0|0 0!0		10	000+1	000+2
224	1	389		B	SEQMV2	4		1389	B T55		10	1355	
225				*									
226				*	DON'T MOVE THE SEQUENCE NUMBER TABLE								
227				*									
228	1	393	NOSQMV	MCW	SEQTAB,X3	7		1393	M 148 099		10	148	099
229	1	400	NOSQV2	BW	*&9,1&X3	8		1400	V U16 0?1 1		10	1416	001+3
230	1	408		CW	FLAG	4		1408	) V81		10	1581	
231	1	412		SW	1&X3	4		1412	, 0?1		10	001+3	
232				*									
233				*	MOVE CONSTANTS AND STRINGS UP								
234				*									
235	1	416		MCW	TOPCOR,X1	7		1416	M 688 089		11	688	089
236	1	423		MCW	ARYTOP,X2	7		1423	M 194 094		11	194	094
237	1	430	MOVEUP	LCA	0&X1,0&X2	7		1430	L 0|0 0!0		11	000+1	000+2
238	1	437		SBR	X2	4		1437	H 094		11	094	
239	1	441		SBR	X1	4		1441	H 089		11	089	
240	1	445		MA	ARYSIZ,X1	7		1445	# 160 089		11	160	089
241	1	452		C	X1,X3	7		1452	C 089 099		12	089	099
242	1	459		BU	MOVEUP	5		1459	B U30 /		12	1430	
243	1	464		BW	SX3,FLAG	8		1464	V U83 V81 1		12	1483	1581
244	1	472		MA	NEGARY,X3	7		1472	# 163 099		12	163	099

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
245	1	479		CW	1&X3	4		1479	) 0?1		12	001+3	
246	1	483	SX3	SBR	X3,0	7		1483	H 099 000		12	099	000
247	1	490		MA	NEGARY,83	7		1490	# 163 083		13	163	083
248	1	497		MA	NEGARY,TBLBOT	7		1497	# 163 145		13	163	145
249	1	504		MA	NEGARY,SEQTAB	7		1504	# 163 148		13	163	148
250	1	511		MCW	TOPCOR,X1	7		1511	M 688 089		13	688	089
251	1	518	CSLOOP	C	X1,ARYTOP	7		1518	C 089 194		13	089	194
252	1	525		BE	DONE	5		1525	B V49 S		14	1549	
253	1	530		MCW	KB1,0&X1	7		1530	M V82 0|0		14	1582	000+1
254	1	537		CW	0&X1	4		1537	) 0|0		14	000+1	
255	1	541		SBR	X1	4		1541	H 089		14	089	
256	1	545		B	CSLOOP	4		1545	B V18		14	1518	
257				*									
258	1	549	DONE	BSS	SNAPSH,C	5		1549	B 333 C		14	333	
259	1	586		B	LOADNX	4		1554	B 700		14	700	
260				*									
261				*	DATA								
262				*									
263	1	594	W5A	DCW	#5	5		1562			15		
264	1	599	W5B	DCW	#5	5		1567			15		
265	1	604	W5C	DCW	#5	5		1572			15		
266	1	609	W5D	DCW	#5	5		1577			15		
267	1	612	KA001	DSA	1	3		1580	001		15	001	
268	1	613	FLAG	DCW	#1	1		1581			15		
269	1	614	KB1	DCW	#1	1		1582			15		
270	1	624	TESTMV	BH	SEQMV	5	V3M4	1583	B T15 U		16	1315	
271	1	629		BIN	NOSQMV,	5	V3M4	1588	B T93		16	1393	
272	1	634	GMWM	DCW	@}@	1		1593		GMARK	16		
273				XFR	BEG50B				B /75		17	1175	
274			CLRME	CLRA	BEGIN3,GMWM					MACRO			
			*	CLRA	CLRBOT,CLRTOP[,ORG,GMWMAD]					GEN			
			*							GEN			
			*	CLEAR CORE	AFTER A PHASE USING THE CLRTOP ADDRESS					GEN			
			*							GEN			
275				ORG	201				0201				
			*							GEN			
			*	CLEAR DOWN	TO CLRBOT & X00 THE EASY WAY					GEN			
			*							GEN			
276			CLRME	EQU	*&1			0201		GEN			
277			)0J005	CS	GMWM CLEAR FROM CLRTOP	4		0201	/ V93	GEN	18	1593	
278				SBR	)0J005&3	4		0205	H 204	GEN	18	204	
279				SBR	)0L005&6	4		0209	H 250	GEN	18	250	
280				C	)0J005&3,)0M005 DOWN TO CLRBOT & X00?	7		0213	C 204 261	GEN	18	204	261
281				BU	)0J005	5		0220	B 201 /	GEN	18	201	
			*							GEN			
			*	NOW CLEAR	DOWN TO CLRBOT THE HARD WAY					GEN			
			*							GEN			
282			)0K005	C	)0L005&6,)0N005	7		0225	C 250 264	GEN	18	250	264
283				BU	)0L005	5		0232	B 244 /	GEN	18	244	
284				CS	LOADNX,)0Q005 LOAD THE NEXT BLOCK AT 1	7		0237	/ 700 271	GEN	19	700	271

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
285			)0L005	LCA	)0P005,0-0			7 0244	L 265 000	GEN	19	265	000
286				SBR	)0L005&6			4 0251	H 250	GEN	19	250	
287				B	)0K005			4 0255	B 225	GEN	19	225	
288			)0M005	DSA	)0R005			3 0261	899	GEN	19	899	
289			)0N005	DSA	BEGIN3			3 0264	838	GEN	19	838	
290			)0P005	DCW	#1			1 0265		GEN	19		
291				DC	@CLRA @			5 0270		GEN	19		
292			)0Q005	DCW	@}@			1 0271		GEN	20		
293				ORG	BEGIN3&X00				0900				
294			)0R005	EQU	*				0899	GEN			
295				XFR	CLRME				B 201		21	201	

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J005	0201: 0	)0K005	0225: 0	)0L005	0244: 0	)0M005	0261: 0	)0N005	0264: 0	)0P005	0265: 0
)0Q005	0271: 0	)0R005	0899: 0	)6J004	0110: 0	)6K004	0700: 0	)6L004	0704: 0	)6M004	0728: 0
)9J004	0252: 0	)9R004	0257: 0	ADR5 <	0896: 0	ADR5B<	0891: 0	ARYSIZ	0160: 0	ARYTOP	0194: 0
BEG50B	1175: 0	BEGIN3	0838: 0	BEGN47	1175: 0	CDOVLY	0700: 0	CLRME	0201: 0	CONV35	0969: 0
CONV53	0929: 0	CSLOOP	1518: 0	DONE	1549: 0	FINDGM	1052: 0	FLAG	1581: 0	FLAG <	0884: 0
GMWM	1593: 0	KA001	1580: 0	KB1	1582: 0	LOADAD	1175: 0	LOADNX	0700: 0	MOVEUP	1430: 0
NEGARY	0163: 0	NEXT <	0850: 0	NOSQMV	1393: 0	NOSQV2	1400: 0	PHASLD	0381: 0	PHS50B	0201: 0
SEQMV	1315: 0	SEQMV2	1355: 0	SEQMV3	1382: 0	SEQNO<	0865: 0	SEQTAB	0148: 0	SNAPEX	0564: 0
SNAPSH	0333: 0	SX2 <	0853: 0	SX3	1483: 0	SX3A <	0844: 0	SX3B <	0856: 0	TABBOT	0847: 0
TBLBOT	0145: 0	TESTMV	1583: 0	TIMES6	0875: 0	TOOBIG	1092: 0	TOP3	2600: 0	TOPA <	0841: 0
TOPB <	0883: 0	TOPC <	0862: 0	TOPC5<	0870: 0	TOPCOR	0688: 0	TPERR	0728: 0	TPREAD	0704: 0
W3 <	0859: 0	W5 <	0880: 0	W5A	1562: 0	W5B	1567: 0	W5C	1572: 0	W5D	1577: 0
X1	0089: 0	X2	0094: 0	X3	0099: 0						

UNREFERENCED SYMBOLS

CDOVLY CONV53 FINDGM FLAG < NEXT < PHASLD SEQNO< SNAPEX SX2 < SX3A < SX3B < TABBOT TIMES6 TOP3 TOPA < TOPB < TOPC < TOPC5< TPERR TPREAD W3 < W5 <