

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
101			JOB		FORTRAN COMPILER -- RESORT 3 PHASE -- PHASE 49								
102			CTL		6611								
103			*										
104			*		THE SOURCE PROGRAM IS RESORTED BACK TO ITS ORIGINAL ORDER.								
105			*		THE STATEMENT NUMBER TABLE IS FILLED WITH THE CURRENT LOCATION								
106			*		OF EACH STATEMENT.								
107			*										
108			*		ON ENTRY X3 IS AT THE BOTTOM ENTRY IN THE SORT TABLE AND								
109			*		X2 IS ONE ABOVE THE COLON THAT MARKS THE TOP OF THE SORT TABLE.								
110			*										
111			X1	EQU	89						0089		
112			X2	EQU	94						0094		
113			X3	EQU	99						0099		
114			*										
115			*		STUFF IN THE RESIDENT AREA								
116			*										
117			SEQTAB	EQU	148						0148		
118			TOPCOR	EQU	688						0688		
119			*										
120				EXT00									MACRO
121			SNAPSH	EQU	333						0333		GEN
122			PHASLD	EQU	381						0381		GEN
123			SNAPEX	EQU	564						0564		GEN
124			LOADNX	EQU	700						0700		GEN
125			CDOVLY	EQU	700						0700		GEN
126			TPREAD	EQU	704						0704		GEN
127			TPERR	EQU	728						0728		GEN
128			*										
129				SFX	<								
130				EXT47									MACRO
131			TOPA	EQU	841						0841		GEN
132			SX3A	EQU	844						0844		GEN
133			TABBOT	EQU	847						0847		GEN
134			NEXT	EQU	850						0850		GEN
135			SX2	EQU	853						0853		GEN
136			SX3B	EQU	856						0856		GEN
137			W3	EQU	859						0859		GEN
138			TOPC	EQU	862						0862		GEN
139			SEQNO	EQU	865						0865		GEN
140			TOPC5	EQU	870						0870		GEN
141			TIMES6	EQU	875						0875		GEN
142			W5	EQU	880						0880		GEN
143			TOPB	EQU	883						0883		GEN
144			FLAG	EQU	884						0884		GEN
145			ADR5B	EQU	891						0891		GEN
146			ADR5	EQU	896						0896		GEN
147			CONV53	EQU	929						0929		GEN
148			CONV35	EQU	969						0969		GEN
149			FINDGM	EQU	1052						1052		GEN
150			TOOBIG	EQU	1092						1092		GEN

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
151			BEGN47	EQU	1175	<		1175		GEN			
152			* COPE WITH SUFFIX PROBLEMS -- SFX GOES IN SIXTH CHARACTER BUT A										
153			* LABEL CANNOT CONTAIN MORE THAN ONE BLANK										
154			SX2...	EQU	SX2	<		0853					
155			W3....	EQU	W3	<		0859					
156			W5....	EQU	W5	<		0880					
157			SFX										
158			SX1	EQU	SX3A < SX3A IN PREVIOUS PHASE			0844					
159			SX3A	EQU	SX2... SX2 IN PREVIOUS PHASE			0853					
160			SX3	EQU	SX3B < SX3B IN PREVIOUS PHASE			0856					
161			W3	EQU	W3....			0859					
162			W5	EQU	W5....			0880					
163			*										
164			SORTAB	EQU	TABEL SORT TABLE			2499					
165			*										
166			PHAS49	LDPH	RESORT TRI,LOADAD,BEGN49,,,49					MACRO			
			* PHAZ	LDPH	[PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER],[HALT]					GEN			
			* XFR	PHASZ	PROHIBITED IN A MACRO					GEN			
			*										
			* LOAD	A	BLOCK					GEN			
			*										
167			)6J003	EQU	110 PHASE ID			0110		GEN			
168			)6K003	EQU	700 LOAD NEXT PHASE			0700		GEN			
169			)6L003	EQU	704 TAPE READ INSTRUCTION			0704		GEN			
170			)6M003	EQU	728 TAPE ERROR HANDLER			0728		GEN			
			*										
171				ORG	201				0201				
172			PHAS49	EQU	*&1			0201		GEN			
173				LCA	)9J003,)6J003		7	0201	L 253 110	GEN	1	253	110
174				BCE	)6K003,)6K003,1 Q: LOADING FROM CARDS?		8	0208	B 700 700 1	GEN	1	700	700
175				BCE	)6K003,)6L003&4,0 Q: LOADING FROM AUTOCODER TAPE?		8	0216	B 700 708 0	GEN	1	700	708
176				RTW	1,LOADAD READ THE BLOCK		8	0224	L %U1 /75 R	GEN	1	%U1	1175
177				BER	)6M003 Q: TAPE ERROR?		5	0232	B 728 L	GEN	1	728	
178				CS	BEGN49,)9R003 ENTER THE BLOCK		7	0237	/ /75 257	GEN	2	1175	257
179			)9J003	DCW	@RESORT TRI@ PHASE ID		10	0253		GEN	2		
180				DC	#1		1	0254		GEN	2		
181				DC	@49@ PHASE NUMBER		2	0256		GEN	2		
182			)9R003	DCW	@}@		1	0257		GEN	2		
183				XFR	PHAS49				B 201		3	201	
184			*										
185				ORG	BEGN47				1175				
186			LOADAD	EQU	*&1			1175					
187	1	175	BEGN49	SW	GM		4	1175	, M57		4	2457	
188				CS	299 LOADING FROM CARDS OR AUTOCODER DOESN'T CLEAR		4	1179	/ 299		4	299	
189	1	446		LCA	K000,208 MOVED HERE FROM PHASE 47		7	1183	L M37 208		4	2437	208
190	1	179		B	*&8		4	1190	B S01		4	1201	
191	1	183	LOOP	SBR	X3,0-0		7	1194	H 099 000		4	099	000
192	1	190		SBR	NEXT <		4	1201	H 850		4	850	
193	1	194	MIDDLE	BCE	EMPTY,0&X3,		8	1205	B Z27 0?0		4	1927	000+3
194	1	202		SBR	LOOP&6,3&X3		7	1213	H S00 0?3		5	1200	003+3

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
195	1	209		MN	0&X3	4		1220	D 0?0		5	000+3	
196	1	213		SAR	*&7	4		1224	Q S34		5	1234	
197	1	217		BWZ	INDIR,0-0,S	8		1228	V Y23 000 S		5	1823	000
198	1	225		MCW	0&X3,X1	7		1236	M 0?0 089		5	000+3	089
199	1	232	INDIRB	SBR	TOPC <,0&X3	7		1243	H 862 0?0		5	862	000+3
200	1	239	INNER	MCW	X1,SX1A	7		1250	M 089 M44		6	089	2444
201	1	246		MCW	X1,X3	7		1257	M 089 099		6	089	099
202	1	253		B	FINDGM GET ADDRESS & 1 OF GM ABOVE STATEMENT	4		1264	B |52		6	1052	
203	1	257		MCW	X3,ADR5 <	7		1268	M 099 896		6	099	896
204	1	264		B	CONV35	4		1275	B 969		6	969	
205	1	268		MCW	ADR5B<,W5 ADDRESS &1 OF GM ABOVE STATEMENT	7		1279	M 891 880		6	891	880
206	1	275		A	K1,W5	7		1286	A M45 880		7	2445	880
207	1	282		MCW	SX1A,ADR5 < ADDRESS OF STATEMENT	7		1293	M M44 896		7	2444	896
208	1	289		B	CONV35	4		1300	B 969		7	969	
209	1	293		MCW	ADR5B<,W5B	7		1304	M 891 M39		7	891	2439
210	1	300		S	W5B,W5 LENGTH OF STATEMENT	7		1311	S M39 880		7	2439	880
211	1	307		MCW	X2,ADR5 <	7		1318	M 094 896		7	094	896
212	1	314		B	CONV35	4		1325	B 969		8	969	
213	1	318		MCW	ADR5B<,TOPC5< TOP OF TABLE & 2	7		1329	M 891 870		8	891	870
214	1	325		B	TEST	4		1336	B Y87		8	1887	
215	1	329		BL	MOVED1	5		1340	B Z68 T		8	1968	
216	1	334	NEWSIM	MCW	SX1A,X1	7		1345	M M44 089		8	2444	089
217	1	341		BCE	*&12,F1,1	8		1352	B T71 M40 1		8	1371	2440
218	1	349		A	K1,208	7		1360	A M45 208		9	2445	208
219	1	356		B	REPORT	4		1367	B V38		9	1538	
220			*										
221	1	360		MCW	K0,F1	7		1371	M M46 M40		9	2446	2440
222	1	367		MCW	X3,SX3B&6	7		1378	M 099 V37		9	099	1537
223	1	374		MCW	3&X1,X3	7		1385	M 0|3 099		9	003+1	099
224	1	381		MCW	0&X3,X3	7		1392	M 0?0 099		9	000+3	099
225	1	388		SBR	3&X1,4&X3	7		1399	H 0|3 0?4		10	003+1	004+3
226	1	395		MA	W3,3&X1	7		1406	# 859 0|3		10	859	003+1
227	1	402		MCW	X1,SX1B	7		1413	M 089 M49		10	089	2449
228	1	409	DEZONE	MZ	*-4,9&X3	7		1420	Y U22 0?9		10	1422	009+3
229	1	416		MZ	*-4,12&X3	7		1427	Y U29 0A2		10	1429	012+3
230	1	423		MZ	*-4,15&X3	7		1434	Y U36 0A5		11	1436	015+3
231	1	430		MZ	*-4,18&X3	7		1441	Y U43 0A8		11	1443	018+3
232	1	437		BCE	DEZONX,22&X3,	8		1448	B U95 0B2		11	1495	022+3
233	1	445		MCW	22&X3,X1	7		1456	M 0B2 089		11	022+3	089
234	1	452		MCW	0&X1,22&X3	7		1463	M 0|0 0B2		11	000+1	022+3
235	1	459		MA	R004,22&X3	7		1470	# M52 0B2		12	2452	022+3
236	1	466		MA	W3,22&X3	7		1477	# 859 0B2		12	859	022+3
237	1	473		MCW	0&X1,X3	7		1484	M 0|0 099		12	000+1	099
238	1	480		B	DEZONE	4		1491	B U20		12	1420	
239	1	484	DEZONX	SBR	22&X3,4&X2	7		1495	H 0B2 0!4		12	022+3	004+2
240	1	491		MA	W3,22&X3	7		1502	# 859 0B2		12	859	022+3
241	1	498		MCW	SX1B,X1	7		1509	M M49 089		13	2449	089
242	1	505		BCE	*&8,0&X1,B	8		1516	B V31 0|0 B		13	1531	000+1
243	1	513		SBR	3&X1,918 ???	7		1524	H 0|3 918		13	003+1	918
244	1	520	SX3B	SBR	X3,0-0	7		1531	H 099 000		13	099	000

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
245	1	527	REPORT	MCW	W3,227	7		1538	M 859 227		13	859	227
246	1	534		MA	X2,227	7		1545	# 094 227		14	094	227
247	1	541		MCW	227,X3	7		1552	M 227 099		14	227	099
248	1	548		MCW	X3,ADR5 <	7		1559	M 099 896		14	099	896
249	1	555		B	CONV35 CONVERT ADR5 < TO ADR5B<	4		1566	B 969		14	969	
250	1	559		MCS	ADR5B<,244	7		1570	Z 891 244		14	891	244
251	1	566		MCW	X3,256	7		1577	M 099 256		14	099	256
252	1	573		MA	K004,256	7		1584	# M52 256		15	2452	256
253	1	580		W		1		1591	2		15		
254	1	581		BCV	*&5	5		1592	B W01 @		15	1601	
255	1	586		B	*&3	4		1597	B W03		15	1603	
256	1	590		CC	1	2		1601	F 1		15		
257	1	592		MCW	X2,LINK2&6	7		1603	M 094 X12		15	094	1712
258	1	599		BCE	ENDSTM,0&X1,} GM	8		1610	B W65 0|0 } GMARK		15	1665	000+1
259	1	607		MN	0&X2	4		1618	D 0!0		16	000+2	
260	1	611		SAR	X2	4		1622	Q 094		16	094	
261	1	615	MORE	MCM	0&X1	4		1626	P 0|0		16	000+1	
262	1	619		SAR	NEWX1&6	4		1630	Q W52		16	1652	
263	1	623		MCM	0&X1,1&X2 MOVE CODE DOWN	7		1634	P 0|0 0!1		16	000+1	001+2
264	1	630		MN		1		1641	D		16		
265	1	631		SBR	X2	4		1642	H 094		16	094	
266	1	635	NEWX1	SBR	X1,0-0	7		1646	H 089 000		17	089	000
267	1	642		BCE	MORE,0&X2,|	8		1653	B W26 0!0 |		17	1626	000+2
268	1	650		B	*&15	4		1661	B W79		17	1679	
269	1	654	ENDSTM	SBR	X1,1&X1	7		1665	H 089 0|1		17	089	001+1
270	1	661		MCW	BRANCH,SWITCH	7		1672	M M53 X20		17	2453	1720
271	1	668		BWZ	*&5,0&X1,2	8		1679	V W91 0|0 2		18	1691	000+1
272	1	676		B	LINK1	4		1687	B W99		18	1699	
273	1	680		BWZ	MARK,2&X1,2	8		1691	V X13 0|2 2		18	1713	002+1
274	1	688	LINK1	MCW	2&X1,X3 PREFIX IS ADDR OF STATEMENT NUMBER	7		1699	M 0|2 099		18	002+1	099
275	1	695	LINK2	SBR	0&X3,0-0 START OF STATEMENT TO STMT NUM TBL	7		1706	H 0?0 000		18	000+3	000
276	1	702	MARK	MCW	COLON,0&X1	7		1713	M M54 0|0		19	2454	000+1
277	1	709	SWITCH	NOP	ENDST2	4		1720	N X72		19	1772	
278	1	713		MN	0&X1	4		1724	D 0|0		19	000+1	
279	1	717		MN		1		1728	D		19		
280	1	718		SAR	X1	4		1729	Q 089		19	089	
281	1	722		MN	0&X2	4		1733	D 0!0		19	000+2	
282	1	726		SAR	*&7	4		1737	Q X47		19	1747	
283	1	730	SETWMS	LCA	0&X1,0&X2 SET WORD MARKS IN MOVED-DOWN CODE	7		1741	L 0|0 0!0		20	000+1	000+2
284	1	737		SBR	*-4	4		1748	H X47		20	1747	
285	1	741		C	0&X1	4		1752	C 0|0		20	000+1	
286	1	745		SAR	X1	4		1756	Q 089		20	089	
287	1	749		BCE	*&5,0&X1,} GM	8		1760	B X72 0|0 } GMARK		20	1772	000+1
288	1	757		B	SETWMS	4		1768	B X41		20	1741	
289			*										
290	1	761	ENDST2	MCW	NOP,SWITCH	7		1772	M M55 X20		20	2455	1720
291	1	768		C	NEXT <,TOPA <	7		1779	C 850 841		21	850	841
292	1	775		BU	CONTIN	5		1786	B Y11 /		21	1811	
293			*										
294	1	780	DONE	LCA	COLON,0&X2	7		1791	L M54 0!0		21	2454	000+2

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
295	1	787		SBR	X3	4		1798	H 099		21	099	
296	1	791		BSS	SNAPSH,C	5		1802	B 333 C		21	333	
297	1	810		B	LOADNX	4		1807	B 700		21	700	
298			*										
299	1	814	CONTIN	BCE	INDIR2,FLAG <,1	8		1811	B Y55 884 1		22	1855	884
300	1	822		B	LOOP	4		1819	B /94		22	1194	
301			*										
302			*		SORT TABLE ENTRY IS THE ADDRESS OF ANOTHER ONE								
303			*										
304	1	826	INDIR	MCW	0&X3,X3	7		1823	M 0?0 099		22	000+3	099
305	1	833		MCW	0&X3,X1	7		1830	M 0?0 089		22	000+3	089
306	1	840		SBR	NEWX3&3,3&X3	7		1837	H Y65 0?3		22	1865	003+3
307	1	847		MCW	K1,FLAG <	7		1844	M M45 884		23	2445	884
308	1	854		B	INDIRB	4		1851	B S43		23	1243	
309			*										
310	1	858	INDIR2	MCW	K0,FLAG <	7		1855	M M46 884		23	2446	884
311	1	865	NEWX3	MCW	0-0,X1	7		1862	M 000 089		23	000	089
312	1	872		MCW	NEWX3&3,TOPC <	7		1869	M Y65 862		23	1865	862
313	1	879		MCW	K1,F1	7		1876	M M45 M40		23	2445	2440
314	1	886		B	INNER	4		1883	B S50		24	1250	
315			*										
316	1	890	TEST	SBR	TESTX&3	4		1887	H Z26		24	1926	
317	1	894		MCW	SX3,ADR5 <	7		1891	M 856 896		24	856	896
318	1	901		B	CONV35 CONVERT ADR5 < TO ADR5B<	4		1898	B 969		24	969	
319	1	905		MCW	ADR5B<,TIMES6	7		1902	M 891 875		24	891	875
320	1	912		S	TOPC5<,TIMES6	7		1909	S 870 875		24	870	875
321	1	919		C	W5,TIMES6	7		1916	C 880 875		25	880	875
322	1	926	TESTX	B	0-0	4		1923	B 000		25	000	
323			*										
324			*		EMPTY CELL IN SORT TABLE								
325			*										
326	1	930	EMPTY	A	K1,208	7		1927	A M45 208		25	2445	208
327	1	937		C	NEXT <,TOPA <	7		1934	C 850 841		25	850	841
328	1	944		BE	DONE	5		1941	B X91 S		25	1791	
329	1	949		SBR	X3,3&X3	7		1946	H 099 0?3		25	099	003+3
330	1	956		SBR	NEXT <	4		1953	H 850		26	850	
331	1	960		B	MIDDLE	4		1957	B S05		26	1205	
332			*										
333	1	964	MOVED	SBR	SX3,2&X3	7		1961	H 856 0?2		26	856	002+3
334	1	971	MOVED1	MCW	SX3,X3	7		1968	M 856 099		26	856	099
335	1	978		SBR	X3,2&X3	7		1975	H 099 0?2		26	099	002+3
336	1	985		B	FINDGM	4		1982	B |52		26	1052	
337	1	989		BCE	MOVED,0&X3,: COLON MEANS STATEMENT ALREADY MOVED	8		1986	B Z61 0?0 :		27	1961	000+3
338	1	997		B	TEST	4		1994	B Y87		27	1887	
339	2	001		BL	*&5	5		1998	B !07 T		27	2007	
340	2	006		B	NEWSTM	4		2003	B T45		27	1345	
341			*										
342	2	010		SBR	SX2A&6,0&X2	7		2007	H M16 0!0		27	2416	000+2
343	2	017	TSTTOP	C	X3,TOPCOR	7		2014	C 099 688		27	099	688
344	2	024		BE	ATTOP	5		2021	B !41 S		28	2041	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
345	2	029		SBR	X1,3&X3	7		2026	H 089 0?3		28	089	003+3
346	2	036		BCE	NEXTAB,0&X1,} GM	8		2033	B !54 0|0 } GMARK		28	2054	000+1
347	2	044	ATTOP	B	TEST	4		2041	B Y87		28	1887	
348	2	048		BL	TOOBIG	5		2045	B |92 T		28	1092	
349	2	053		B	SX2A	4		2050	B M10		28	2410	
350	2	057	NEXTAB	SBR	X3,4&X3	7		2054	H 099 0?4		29	099	004+3
351	2	064	NEXTB1	B	FINDGM	4		2061	B |52		29	1052	
352	2	068		C	0&X3,COLON	7		2065	C 0?0 M54		29	000+3	2454
353	2	075		BU	TSTTOP	5		2072	B !14 /		29	2014	
354	2	080		SBR	NEXTX1&6,0&X3	7		2077	H J43 0?0		29	2143	000+3
355	2	087		SBR	SX3A,2&X3	7		2084	H 853 0?2		29	853	002+3
356	2	094		SBR	X3,3&X3	7		2091	H 099 0?3		30	099	003+3
357	2	101	LOOP2	LCA	0&X1,0&X3	7		2098	L 0|0 0?0		30	000+1	000+3
358	2	108		SAR	X1	4		2105	Q 089		30	089	
359	2	112		C	0&X3	4		2109	C 0?0		30	000+3	
360	2	116		SAR	X3	4		2113	Q 099		30	099	
361	2	120		BCE	*&5,0&X1,} GM	8		2117	B J29 0|0 } GMARK		30	2129	000+1
362	2	128		B	LOOP2	4		2125	B !98		30	2098	
363	2	132		MN	0&X1	4		2129	D 0|0		31	000+1	
364	2	136		SAR	SX1	4		2133	Q 844		31	844	
365	2	140	NEXTX1	SBR	X1,0-0	7		2137	H 089 000		31	089	000
366	2	147		BWZ	*&5,1&X1,S	8		2144	V J56 0|1 S		31	2156	001+1
367	2	155		B	*&8	4		2152	B J63		31	2163	
368	2	159		MCW	K1,F2	7		2156	M M45 M41		31	2445	2441
369	2	166		BWZ	*&5,0&X1,2	8		2163	V J75 0|0 2		32	2175	000+1
370	2	174		B	*&9	4		2171	B J83		32	2183	
371	2	178		BWZ	*&19,2&X1,2	8		2175	V K01 0|2 2		32	2201	002+1
372	2	186		MCW	2&X1,X1	7		2183	M 0|2 089		32	002+1	089
373	2	193		MCW	0&X1,X2	7		2190	M 0|0 094		32	000+1	094
374	2	200		B	*&8	4		2197	B K08		32	2208	
375	2	204		MCW	2&X1,X2	7		2201	M 0|2 094		33	002+1	094
376	2	211		SBR	SEQNO<,0&X2	7		2208	H 865 0!0		33	865	000+2
377	2	218		SBR	*&14	4		2215	H K32		33	2232	
378	2	222		MZ	X2ZONE,*&6	7		2219	Y M56 K31		33	2456	2231
379	2	229		SBR	X2,0-0	7		2226	H 094 000		33	094	000
380	2	236		MCW	SEQNO<,*&14	7		2233	M 865 K53		33	865	2253
381	2	243		MZ	X2ZONE,*&6	7		2240	Y M56 K52		34	2456	2252
382	2	250		SBR	X2,0-0	7		2247	H 094 000		34	094	000
383	2	257		BWZ	*&12, SORTAB-1&X2,S	8		2254	V K73 MR8 S		34	2273	2498+2
384	2	265		SBR	SORTAB&X2,1&X3	7		2262	H MR9 0?1		34	2499+2	001+3
385	2	272		B	SKIP2	4		2269	B L13		34	2313	
386	2	276		MCW	SORTAB&X2,X1	7		2273	M MR9 089		35	2499+2	089
387	2	283		BCE	*&12,F2,1	8		2280	B K99 M41 1		35	2299	2441
388	2	291		SBR	3&X1,1&X3	7		2288	H 0|3 0?1		35	003+1	001+3
389	2	298		B	*&15	4		2295	B L13		35	2313	
390	2	302		SBR	0&X1,1&X3	7		2299	H 0|0 0?1		35	000+1	001+3
391	2	309		MCW	K0,F2	7		2306	M M46 M41		36	2446	2441
392	2	316	SKIP2	C	SX1,SX3	7		2313	C 844 856		36	844	856
393	2	323		BE	LOOP2X	5		2320	B L53 S		36	2353	
394	2	328		MCW	SX1,X1	7		2325	M 844 089		36	844	089

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
395	2	335		MN	0&X3	4		2332	D 0?0		36	000+3	
396	2	339		MN		1		2336	D		36		
397	2	340		MN		1		2337	D		36		
398	2	341		SAR	NEXTX1&6	4		2338	Q J43		37	2143	
399	2	345		SBR	X1,1&X1	7		2342	H 089 0|1		37	089	001+1
400	2	352		B	LOOP2	4		2349	B !98		37	2098	
401	2	356	LOOP2X	LCA	GM,0&X3	7		2353	L M57 0?0		37	2457	000+3
402	2	363		SBR	SX3	4		2360	H 856		37	856	
403	2	367		C	SEQTAB,SX3A	7		2364	C 148 853		37	148	853
404	2	374		BE	ATBOT	5		2371	B M01 S		37	2401	
405	2	379		MCW	SX3A,X3	7		2376	M 853 099		38	853	099
406	2	386		SBR	X1,1&X3	7		2383	H 089 0?1		38	089	001+3
407	2	393		SBR	X3,2&X3	7		2390	H 099 0?2		38	099	002+3
408	2	400		B	NEXTB1	4		2397	B !61		38	2061	
409				*									
410				*	AT BOTTOM OF SORT TABLE								
411				*									
412	2	404	ATBOT	B	TEST	4		2401	B Y87		38	1887	
413	2	408		BL	TOOBIG	5		2405	B |92 T		38	1092	
414	2	413	SX2A	SBR	X2,0-0	7		2410	H 094 000		39	094	000
415	2	420		MCW	TOPC <,X3	7		2417	M 862 099		39	862	099
416	2	427		MCW	0&X3,SX1A	7		2424	M 0?0 M44		39	000+3	2444
417	2	434		B	NEWSTM	4		2431	B T45		39	1345	
418				*									
419				*	DATA								
420				*									
421	2	442	W5B	DCW	00000	5		2439			39		
422			K000	EQU	W5B-2 MOVED HERE FROM PHASE 47			2437					
423	2	443	F1	DCW	0	1		2440			39		
424	2	444	F2	DCW	0	1		2441			39		
425	2	447	SX1A	DCW	#3	3		2444			40		
426	2	448	K1	DCW	1	1		2445			40		
427	2	449	K0	DCW	0	1		2446			40		
428	2	452	SX1B	DCW	#3	3		2449			40		
429	2	455	K004	DSA	4	3		2452	004		40	004	
430	2	456	BRANCH	B		1		2453	B		40		
431	2	457	COLON	DCW	@:@	1		2454			40		
432	2	458	NOP	NOP		1		2455	N		41		
433	2	467	X2ZONE	DCW	@R@	1		2456			41		
434	2	468	GM	DC	@}@	1		2457		GMARK	41		
435	2	469	GMWM	DCW	@}@	1		2458		GMARK	41		
436				ORG	*&X00				2500				
437	*		TABEL	EQU	*			2499					
438				XFR	BEGN49				B /75		42	1175	
439			CLRME	CLRA	BEGN49,GMWM					MACRO			
				CLRA	CLRBOT,CLRTOP [,ORG,GMWMAD]					GEN			
				*						GEN			
				*	CLEAR CORE AFTER A PHASE USING THE CLRTOP ADDRESS					GEN			
				*						GEN			
440				ORG	201				0201				

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
										GEN			
			*							GEN			
			* CLEAR DOWN TO CLRBOT & X00 THE EASY WAY							GEN			
			*							GEN			
441			CLRME	EQU	*&1			0201		GEN			
442			)0J004	CS	GMWM CLEAR FROM CLRTOP	4		0201	/ M58	GEN	43	2458	
443				SBR	)0J004&3	4		0205	H 204	GEN	43	204	
444				SBR	)0L004&6	4		0209	H 250	GEN	43	250	
445				C	)0J004&3,)0M004 DOWN TO CLRBOT & X00?	7		0213	C 204 261	GEN	43	204	261
446				BU	)0J004	5		0220	B 201 /	GEN	43	201	
			*							GEN			
			* NOW CLEAR DOWN TO CLRBOT THE HARD WAY							GEN			
			*							GEN			
447			)0K004	C	)0L004&6,)0N004	7		0225	C 250 264	GEN	43	250	264
448				BU	)0L004	5		0232	B 244 /	GEN	43	244	
449				CS	LOADNX,)0Q004 LOAD THE NEXT BLOCK AT 1	7		0237	/ 700 271	GEN	44	700	271
450			)0L004	LCA	)0P004,0-0 CLEAR WITH BLANK AND WORD MARK	7		0244	L 265 000	GEN	44	265	000
451				SBR	)0L004&6	4		0251	H 250	GEN	44	250	
452				B	)0K004	4		0255	B 225	GEN	44	225	
453			)0M004	DSA	)0R004 CLRBOT & X00 - 1	3		0261	/99	GEN	44	1199	
454			)0N004	DSA	BEGN49 CLRBOT	3		0264	/75	GEN	44	1175	
455			)0P004	DCW	#1	1		0265		GEN	44		
456				DC	@CLRA @ IDENTIFY IN A DECK, TAPE, OR DUMP	5		0270		GEN	44		
457			)0Q004	DCW	@}@	1		0271		GEN	45		
458				ORG	BEGN49&X00				1200				
459			)0R004	EQU	* CLRBOT & X00 - 1			1199		GEN			
460				XFR	CLRME				B 201		46	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	1199: 0	)6J003	0110: 0	)6K003	0700: 0	)6L003	0704: 0	)6M003	0728: 0
)9J003	0253: 0	)9R003	0257: 0	ADR5 <	0896: 0	ADR5B<	0891: 0	ATBOT	2401: 0	ATTOP	2041: 0
BEGN47	1175: 0	BEGN49	1175: 0	BRANCH	2453: 0	CDOVLY	0700: 0	CLRME	0201: 0	COLON	2454: 0
CONTIN	1811: 0	CONV35	0969: 0	CONV53	0929: 0	DEZONE	1420: 0	DEZONX	1495: 0	DONE	1791: 0
EMPTY	1927: 0	ENDST2	1772: 0	ENDSTM	1665: 0	F1	2440: 0	F2	2441: 0	FINDGM	1052: 0
FLAG <	0884: 0	GM	2457: 0	GMWM	2458: 0	INDIR	1823: 0	INDIR2	1855: 0	INDIRB	1243: 0
INNER	1250: 0	K0	2446: 0	K000	2437: 0	K004	2452: 0	K1	2445: 0	LINK1	1699: 0
LINK2	1706: 0	LOADAD	1175: 0	LOADNX	0700: 0	LOOP	1194: 0	LOOP2	2098: 0	LOOP2X	2353: 0
MARK	1713: 0	MIDDLE	1205: 0	MORE	1626: 0	MOVED	1961: 0	MOVED1	1968: 0	NEWSTM	1345: 0
NEWX1	1646: 0	NEWX3	1862: 0	NEXT <	0850: 0	NEXTAB	2054: 0	NEXTB1	2061: 0	NEXTX1	2137: 0
NOP	2455: 0	PHAS49	0201: 0	PHASLD	0381: 0	REPORT	1538: 0	SEQNO<	0865: 0	SEQTAB	0148: 0
SETWMS	1741: 0	SKIP2	2313: 0	SNAPEX	0564: 0	SNAPSH	0333: 0	SORTAB	2499: 0	SWITCH	1720: 0
SX1	0844: 0	SX1A	2444: 0	SX1B	2449: 0	SX2 <	0853: 0	SX2...	0853: 0	SX2A	2410: 0
SX3	0856: 0	SX3A	0853: 0	SX3A <	0844: 0	SX3B	1531: 0	SX3B <	0856: 0	TABBOT	0847: 0
TABEL	2499: 0	TEST	1887: 0	TESTX	1923: 0	TIMES6	0875: 0	TOOBIG	1092: 0	TOFA <	0841: 0
TOPB <	0883: 0	TOPC <	0862: 0	TOPC5<	0870: 0	TOPCOR	0688: 0	TPERR	0728: 0	TPREAD	0704: 0
TSTTOP	2014: 0	W3	0859: 0	W3 <	0859: 0	W3....	0859: 0	W5	0880: 0	W5 <	0880: 0
W5....	0880: 0	W5B	2439: 0	X1	0089: 0	X2	0094: 0	X2ZONE	2456: 0	X3	0099: 0

UNREFERENCED SYMBOLS

CDOVLY CONV53 PHASLD SNAPEX TABBOT TOPB < TPERR TPREAD