

CLEAR STORAGE 1	,008015,022026,030037,044,049,053053N000000N00001026	1
CLEAR STORAGE 2	L068116,105106,110117B101/I9I#071029C029056B026/B001/0991,001/001117I0?	2
BOOTSTRAP	,008015,022029,036040,047054,061068,072/061039,0010011040	3

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	01	273	JOB	1401 FORTRAN SYSTEM						
102	1	02		CTL	645 11						
103	1	03		ORG	111				0111		
104	1	04	XDOAD1	DCW	#1	1		0111			4
105	1	05	XDOAD2	DCW	#1	1		0112			4
106	1	06	XDOAD3	DCW	#1	1		0113			4
107	1	07	XDOINI	DCW	#1	1		0114			4
108	1	08	XOBLST	DCW	#1	1		0115			4
109	1	09	XDOSBS	DCW	#1	1		0116			4
110	1	10	XCOMF1	DCW	#1	1		0117			4
111	1	11	XSINFU	DCW	#1	1		0118			5
112	1	12	XLOGFN	DCW	#1	1		0119			5
113	1	13	XXPNTL	DCW	#1	1		0120			5
114	1	14	XATANF	DCW	#1	1		0121			5
115	1	15	XABSV	DCW	#1	1		0122			5
116	1	16	XNEGTF	DCW	#1	1		0123			5
117	1	17	XFIXFU	DCW	#1	1		0124			5
118	1	18	XFLTFU	DCW	#1	1		0125			6
119	1	19	XSQRTF	DCW	#1	1		0126			6
120	1	20	XUSER1	DCW	#1	1		0127			6
121	1	21	XUSER2	DCW	#1	1		0128			6
122	1	22	XUSER3	DCW	#1	1		0129			6
123	1	23	XUSER4	DCW	#1	1		0130			6
124	1	24	XUSER5	DCW	#1	1		0131			6
125	1	25	XUSER6	DCW	#1	1		0132			7
126	1	26	XUSER7	DCW	#1	1		0133			7
127	1	27	XUSER8	DCW	#1	1		0134			7
128	1	28	XUSER9	DCW	#1	1		0135			7
129	1	29	XUSR10	DCW	#1	1		0136			7
130	1	30	XUSR11	DCW	#1	1		0137			7
131	1	31	XUSR12	DCW	#1	1		0138			7
132	1	32	XLINKF	DCW	#1	1		0139			8
133	1	33	NDTABL	EQU	*&1			0140			
134	1	34	ONEADR	DCW	#3	3		0142			8
135	1	35	ADTBLL	DCW	#3	3		0145			8
136	1	36	BSAUCE	DCW	#3	3		0148			8
137	1	37	GNSTMZ	DCW	#3	3		0151			8
138	1	38	PERIOD	DCW	#3	3		0154			8
139	1	39	XEXPON	DCW	#3	3		0157			8
140	1	40	PLUSDF	DCW	#3	3		0160			9
141	1	41	MACFLS	DCW	#3	3		0163			9
142	1	42		ORG	181				0181		
143	1	43	INTSTZ	DCW	#3	3		0183			10
144	1	44	GOGOGO	EQU	*			0183			
145	1	45	FAILSW	DC	#1	1		0184			10
146	1	46	XLINKW	DCW	#1	1		0185			10
147	1	47	GOTOFN	DCW	#3	3		0188			10



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
153	1	53		JOB	1401 FORTRAN SNAPSHOT ROUTINE						
154	1	54		SFX	7	7					
155	1	55	XXX	EQU	0	7		0000			
156	1	56	XL1	EQU	089	7		0089			
157	1	57	089	DCW	000	7	3	0089			11
158	1	58	XL3	EQU	099	7		0099			
159	1	59	099	DCW	000	7	3	0099			12
160	1	60		ORG	333	7			0333		
161	1	61		SBR	PRTXT&3	7	4	0333	H 567		13
162	1	62		SBR	HLDXT&6	7	4	0337	H 408		13
163	1	63		MCW	@000@, LINCT-2	7	7	0341	M 661 656		13
164	1	64		MCW	XL3, HLD32&6	7	7	0348	M 099 415		13
165	1	65		MCW	XL1, HLD31&6	7	7	0355	M 089 422		13
166	1	66		SBR	XL1, 1	7	7	0362	H 089 001		13
167	1	67		SBR	XL3, 202	7	7	0369	H 099 202		14
168	1	68		CS	332	7	4	0376	/ 332		14
169	1	69		CS		7	1	0380	/		14
170	1	70		MCW	110, 210	7	7	0381	M 110 210		14
171	1	71		BSS	ONLY, F	7	5	0388	B 621 F		14
172	1	72		CC	1	7	2	0393	F 1		14
173	1	73		MCW	094, 250	7	7	0395	M 094 250		14
174	1	74	HLDXT	SBR	216, XXX	7	7	0402	H 216 000		15
175	1	75	HLD32	SBR	256, XXX	7	7	0409	H 256 000		15
176	1	76	HLD31	SBR	244, XXX	7	7	0416	H 244 000		15
177	1	77		W		7	1	0423	2		15
178	1	78		CC	K	7	2	0424	F K		15
179	1	79		ZA	&2, PGCTR#2	7	7	0426	? 662 664		15
180	1	80	NULINE	CS	332	7	4	0433	/ 332		15
181	1	81		CS		7	1	0437	/		16
182	1	82		CC	J	7	2	0438	F J		16
183	1	83		MCW	LINCT, 306	7	7	0440	M 658 306		16
184	1	84		MCW		7	1	0447	M		16
185	1	85		SBR	MVHED&6	7	4	0448	H 465		16
186	1	86		MCW	@9@, CTR-1	7	7	0452	M 665 668		16
187	1	87	MVHED	MCW	CTR-1, XXX	7	7	0459	M 668 000		16
188	1	88		MCW	HEAD	7	4	0466	M 651		17
189	1	89		SBR	MVHED&6	7	4	0470	H 465		17
190	1	90		A	@I0@, CTR#2	7	7	0474	A 667 669		17
191	1	91		BWZ	MVHED, CTR-1, 2	7	8	0481	V 459 668 2		17
192	1	92		A	&1, LINCT-2	7	7	0489	A 670 656		17
193	1	93		W		7	1	0496	2		17
194	1	94	LOOP	SW	0&X3	7	4	0497	, 0?0		17
195	1	95		MCW	0&X1, 0&X3	7	7	0501	M 0 0 0?0		18
196	1	96		BW	CMPAB, 0&X1	7	8	0508	V 520 0 0 1		18
197	1	97		CW	0&X3	7	4	0516	) 0?0		18
198	1	98	CMPAB	C	XL1, PARAMA&2	7	7	0520	C 089 688		18
199	1	99		BU	CPL	7	5	0527	B 568 /		18
200	2	00		W		7	1	0532	2		18
201	2	01		WM		7	2	0533	2 )		18
202	2	02	RSTRX	MCW	HLD31&6, XL1	7	7	0535	M 422 089		19

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
203	2	03		MCW	HLD32&6,XL3	7	7	0542	M 415 099		19
204	2	04		CS	332	7	4	0549	/ 332		19
205	2	05		CS		7	1	0553	/		19
206	2	06		BSS	*&5,G	7	5	0554	B 563 G		19
207	2	07		B	PRTXT	7	4	0559	B 564		19
208	2	08		H		7	1	0563	.		19
209	2	09	PRTXT	B	0	7	4	0564	B 000		20
210	2	10	CPL	SBR	XL1, 1&X1	7	7	0568	H 089 0 1		20
211	2	11		BCE	INC, XL3-2, 2	7	8	0575	B 632 097 2		20
212	2	12		SBR	XL3, 201	7	7	0583	H 099 201		20
213	2	13		W		7	1	0590	2		20
214	2	14		WM		7	2	0591	2 )		20
215	2	15		A	&1,PGCTR	7	7	0593	A 670 664		20
216	2	16		C	PGCTR,&15	7	7	0600	C 664 672		21
217	2	17		BU	NULINE	7	5	0607	B 433 /		21
218	2	18		S	PGCTR	7	4	0612	S 664		21
219	2	19		CCB	NULINE,1	7	5	0616	F 433 1		21
220	2	20	ONLY	MCW	@EXECUTED@,220	7	7	0621	M 680 220		21
221	2	21		W	RSTRX	7	4	0628	2 535		21
222	2	22	INC	A	&1,XL3	7	7	0632	A 670 099		21
223	2	23		B	LOOP	7	4	0639	B 497		22
224	2	24	HEAD	DCW	@9.....@	7	9	0651			22
225	2	25		DCW	@9-@	7	2	0653			22
226	2	26	LINCT	DCW	00000	7	5	0658			22
227	2	27		LTORG	*	7			0659		
				DCW	@000@	7	3	0661		LIT	22
				DCW	&2	7	1	0662		LIT	22
			PGCTR7	DCW	#02	7	2	0664		AREA	22
				DCW	@9@	7	1	0665		LIT	23
				DCW	@I0@	7	2	0667		LIT	23
			CTR 7	DCW	#02	7	2	0669		AREA	23
				DCW	&1	7	1	0670		LIT	23
				DCW	&15	7	2	0672		LIT	23
				DCW	@EXECUTED@	7	8	0680		LIT	23

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
228	2	28		JOB	1401 FORTRAN SYSTEM MONITOR AND PARAMETER CARD	7					
229	2	29		SFX	A	A					
230	2	30	PRMCD	DA	1X19	A		0681	0699		23
231	2	31	PARAM		6	A		0686		SBFLD	
232	2	32	MONTER	MCW	BCLEAR-2,CCLEAR-2	A	7	0700	M 831 828		24
233	2	33	ACLEAR	CS	0	A	4	0707	/ 000		24
234	2	34		SBR	TCLEAR	A	4	0711	H 710		24
235	2	35		C	TCLEAR,CCLEAR	A	7	0715	C 710 830		24
236	2	36		BU	ACLEAR	A	5	0722	B 707 /		24
237	2	37		SW	LOD&4	A	4	0727	, 758		24
238	2	38		MCW	TCLEAR,LOD&6	A	7	0731	M 710 760		25
239	2	39		CW	LOD&4	A	4	0738	) 758		25
240	2	40	CK	C	LOD&6,BCLEAR#3	A	7	0742	C 760 833		25
241	2	41		BE	MONTOR	A	5	0749	B 769 S		25
242	2	42	LOD	LCA	@ @,0	A	7	0754	L 834 000		25
243	2	43		SBR	LOD&6	A	4	0761	H 760		25
244	2	44		B	CK	A	4	0765	B 742		25
245	2	45	TCLEAR	EQU	ACLEAR&3	A		0710			
246	2	46	*RESTRICTIONS ON CLEAR ROUTINE								
247	2	47	*		1. MUST CLEAR AT LEAST ONE CENTURY						
248	2	48	*		2. CANNOT CLEAR ABOVE 4K						
249	2	49	MONTOR	R	040	A	4	0769	1 040		26
250	2	50	NINE	MCW	&9,RDCNT	A	7	0773	M 835 837		26
251	2	51	INITAP	RTW	1,XBEGIN	A	8	0780	L %U1 838 R		26
252	2	52		BER	ERRTP	A	5	0788	B 797 L		26
253	2	53	INITXT	B	XBEGIN	A	4	0793	B 838		26
254	2	54	ERRTP	BSP	1	A	5	0797	U %U1 B		26
255	2	55		S	&1,RDCNT#1	A	7	0802	S 836 837		27
256	2	56		BWZ	INITAP,RDCNT,B	A	8	0809	V 780 837 B		27
257	2	57		H	3333,3333	A	7	0817	. C33 C33		27
258	2	58		B	NINE	A	4	0824	B 773		27
259	2	59	CCLEAR	DCW	999	A	3	0830			27
260	2	60		LTORG	*	A			0831		
			BCLEAR	DCW	#03	A	3	0833		AREA	27
				DCW	@ @	A	1	0834		LIT	27
				DCW	&9	A	1	0835		LIT	28
				DCW	&1	A	1	0836		LIT	28
			RDCNTA	DCW	#01	A	1	0837		AREA	28
261	2	61	XBEGIN	EQU	*&1	A		0838			

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
262	2	62		JOB	1401 FORTRAN LOADER PHASE	A					
263	2	63		FBEGN	LOADER,XL1,R,XL2,R,XL3,R,A	A				MACRO	
264				SFX	A	A				GEN	
265		110		DCW	@LOADER@	A	6	0110		GEN	29
266		XL1		EQU	089	A		0089		GEN	
267		089		DCW	000	A	3	0089		GEN	30
268		091		DC	00	A	2	0091		GEN	30
269		XL2		EQU	094	A		0094		GEN	
270		094		DCW	000	A	3	0094		GEN	30
271		096		DC	00	A	2	0096		GEN	30
272		XL3		EQU	099	A		0099		GEN	
273		099		DCW	000	A	3	0099		GEN	30
274		100		DC	0	A	1	0100		GEN	30
275	2	64	START	BCE	*&8,1,	A	8	0838	B 853 001		31
276	2	65		MCW	@N@,MONTOR	A	7	0846	M N49 769		31
277	2	66		CS	080	A	4	0853	/ 080		31
278	2	67		SW	1,GM	A	7	0857	, 001 N29		31
279	2	68		SW	81,84	A	7	0864	, 081 084		31
280	2	69		CS	332	A	4	0871	/ 332		31
281	2	70		CS		A	1	0875	/		31
282	2	71		R		A	1	0876	1		32
283	2	72		LCA	19,PRMCD&18	A	7	0877	L 019 699		32
284	2	73		C	PRMCD&4,@PARAM@	A	7	0884	C 685 N54		32
285	2	74		BU	NOPRM	A	5	0891	B L24 /		32
286	2	75		SW	073	A	4	0896	, 073		32
287	2	76		SW	006,007	A	7	0900	, 006 007		32
288	2	77		SW	PARAM	A	4	0907	, 686		32
289	2	78		MCW	80,PARAM-1	A	7	0911	M 080 685		33
290	2	79		CS	0	A	4	0918	/ 000		33
291	2	80		SBR	LARRY#3	A	4	0922	H N57		33
292	2	81		MCW	PARAM&2,DUM3#3	A	7	0926	M 688 N60		33
293	2	82		B	UNPAK	A	4	0933	B Y76		33
294	2	83		MCW	DUM5#5,WK5	A	7	0937	M N65 053		33
295	2	84		MCW	LARRY,DUM3	A	7	0944	M N57 N60		34
296	2	85		B	UNPAK	A	4	0951	B Y76		34
297	2	86		MCW	DUM5,WK51	A	7	0955	M N65 048		34
298	2	87		A	&1,WK5	A	7	0962	A N66 053		34
299	2	88		A	&1,WK51	A	7	0969	A N66 048		34
300	2	89		CS	332	A	4	0976	/ 332		34
301	2	90		CS		A	1	0980	/		34
302	2	91		MESSG	@START OF FORTRAN COMPILATION@,28,1,J	A				MACRO	
303				CC	1	A	2	0981	F 1	GEN	35
304				CS	332	A	4	0983	/ 332	GEN	35
305				CS		A	1	0987	/	GEN	35
306				MCW	@START OF FORTRAN COMPILATION@,28&200	A	7	0988	M N94 228	GEN	35
307				W		A	1	0995	2	GEN	35
308				CC	J	A	2	0996	F J	GEN	35
309	2	92		MCW	WK5,231	A	7	0998	M 053 231		35
310	2	93		MCW	@MACHINE SIZE SPECIFIED IS @	A	4	1005	M 020		36
311	2	94		W		A	1	1009	2		36

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
312	2	95		CS	235	A	4	1010	/ 235		36
313	2	96		MCW	WK51,228	A	7	1014	M 048 228		36
314	2	97		MCW	@ACTUAL MACHINE SIZE IS @	A	4	1021	M 043		36
315	2	98		BCE	EXIT,PARAM&9,T	A	8	1025	B  96 695 T		36
316	2	99		W		A	1	1033	2		36
317	3	00		C	WK51#5,WK5#5	A	7	1034	C 048 053		37
318	3	01		BH	MSERR	A	5	1041	B  77 U		37
319	3	02		C	WK5,@03900@	A	7	1046	C 053 058		37
320	3	03		BL	EXIT	A	5	1053	B  96 T		37
321	3	04		MESSG	@MACHINE SIZE ERROR@,18,J	A				MACRO	
322				CC	J	A	2	1058	F J	GEN	37
323				CS	332	A	4	1060	/ 332	GEN	37
324				CS		A	1	1064	/	GEN	37
325				MCW	@MACHINE SIZE ERROR@,18&200	A	7	1065	M 076 218	GEN	38
326				W		A	1	1072	2	GEN	38
327	3	05		B	L2PRM	A	4	1073	B  89		38
328	3	06	MSERR	MCW	@SPECIFIED IS GREATER THAN ACTUAL MACHINE SIZE. @,267	A	7	1077	M P22 267		38
329	3	07		MCW	@ERROR - MACHINE SIZE @	A	4	1084	M P43		38
330	3	08		W		A	1	1088	2		38
331	3	09	L2PRM	MCW	LARRY,PARAM&2	A	7	1089	M N57 688		38
332	3	10	EXIT	MCW	PARAM&2,CLR&3	A	7	1096	M 688 /06		39
333	3	11	CLR	CS	0	A	4	1103	/ 000		39
334	3	12		SBR	CLR&3	A	4	1107	H /06		39
335	3	13		C	CLR&3,&SYSGM	A	7	1111	C /06 P46		39
336	3	14		BU	CLR	A	5	1118	B /03 /		39
337	3	15		R		A	1	1123	1		39
338	3	16		MZ	*-006,WORK&76	A	7	1124	Y /24 N01		39
339	3	17		MZ	*-006,ABIT&007	A	7	1131	Y /31 X07		40
340	3	18		MZ	*-6,ABIT2&7	A	7	1138	Y /38 Z80		40
341	3	19		MZ	*-6,CHAR-1	A	7	1145	Y /45 L87		40
342	3	20		MCW	NUMBER,WORK&003	A	7	1152	M N33 M28		40
343	3	21		MCW	PARAM&002,DUMMY&003	A	7	1159	M 688 /69		40
344	3	22	DUMMY	CW	0000	A	4	1166	) 000		40
345	3	23		SBR	STORE&006	A	4	1170	H T70		41
346	3	24	MOVE	BW	MVIPT,ENDSW	A	8	1174	V S11 Q28 1		41
347	3	25		BCE	SCANR,001,: 5-8	A	8	1182	B !70 001 :		41
348	3	26	PRMSG	MESSG	@MESSAGE 1-SYSTEM DOES NOT FOLLOW END CARD@,70,1,1	A				MACRO	
349			PRMSG	CC	1	A	2	1190	F 1	GEN	41
350				CS	332	A	4	1192	/ 332	GEN	41
351				CS		A	1	1196	/	GEN	41
352				MCW	@MESSAGE 1-SYSTEM DOES NOT FOLLOW END CARD@,70&200	A	7	1197	M P87 270	GEN	41
353				W		A	1	1204	2	GEN	42
354				CC	1	A	2	1205	F 1	GEN	42
355	3	27		H	*-3	A	4	1207	. S07		42
356	3	28	MVIPT	MCW	0072,WORK&075	A	7	1211	M 072 N00		42
357	3	29		MCW		A	1	1218	M		42
358	3	30		MCW		A	1	1219	M		42
359	3	31		BCE	SCANR,WORK&004,: 5-8	A	8	1220	B !70 M29 :		42
360	3	32	TOVL	BIN	PRTHD, CARRIAGE OVERFLOW TEST - INITIALIZED	A	5	1228	B K67		43
361	3	33	M2PRT	CS	300	A	4	1233	/ 300		43

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
362	3	34		CS		A	1	1237	/		43
363	3	35		MCW	0072,0283	A	7	1238	M 072 283		43
364	3	36		MCW	006,215	A	7	1245	M 006 215		43
365	3	37		BCE	CMNT,WORK&4,C	A	8	1252	B L58 M29 C		43
366	3	38	FSTNU	B	NEW	A	4	1260	B V46		43
367	3	39		BCE	NEW,WORK&009,0	A	8	1264	B V46 M34 0		44
368	3	40		BCE	NEW,WORK&009,	A	8	1272	B V46 M34		44
369	3	41		A	&1,CTUCD	A	7	1280	A N66 Q24		44
370	3	42		BCE	*&8,CTUCD-1,0	A	8	1287	B T02 Q23 0		44
371	3	43		MCW	@CONTINUE CD ERR@,300	A	7	1295	M Q02 300		44
372	3	44		W		A	1	1302	2		44
373	3	45		MCW	INILZ1,SEL&003	A	7	1303	M N06 T13		45
374	3	46	SEL	MCW	0000,FIXED	A	7	1310	M 000 Q31		45
375	3	47		SW	SEL&001	A	4	1317	, T11		45
376	3	48		A	ONE,SEL&003	A	7	1321	A N10 T13		45
377	3	49		CW	SEL&001	A	4	1328	) T11		45
378	3	50	SW1	NOP	CKLHC	A	4	1332	N Z73		45
379	3	51		BCE	SEL,FIXED,	A	8	1336	B T10 Q31		46
380	3	52		MCW	FIXED,*&8	A	7	1344	M Q31 T58		46
381	3	53		BCE	ABIT,CHAR,0	A	8	1351	B X00 L88 0		46
382	3	54		CHAIN	5	A				MACRO	
383				BCE		A	1	1359	B	GEN	46
384				BCE		A	1	1360	B	GEN	46
385				BCE		A	1	1361	B	GEN	46
386				BCE		A	1	1362	B	GEN	46
387				BCE		A	1	1363	B	GEN	47
388	3	55	STORE	MCW	FIXED,0000	A	7	1364	M Q31 000		47
389	3	56		SBR	STORE&006	A	4	1371	H T70		47
390	3	57	INCTO	A	&1,TOTAL#5	A	7	1375	A N66 Q07		47
391	3	58		C	STORE&6,&LDRND	A	7	1382	C T70 Q10		47
392	3	59		BE	QUIT	A	5	1389	B K33 S		47
393	3	60	HSW	BCE	HOLLR,FIXED,H	A	8	1394	B X51 Q31 H		47
394	3	61	HSW2	NOP	@B@,HSW	A	7	1402	N Q11 T94		48
395	3	62	CMPAR	C	SEL&003,INILZ1	A	7	1409	C T13 N06		48
396	3	63	SWTCH2	BIN	SEL,/	A	5	1416	B T10 /		48
397	3	64		SW	STORE&004	A	4	1421	, T68		48
398	3	65	JUMP	MCW	STORE&006,XL2	A	7	1425	M T70 094		48
399	3	66		CW	STORE&004	A	4	1432	) T68		48
400	3	67		MCW	N,JUMP	A	7	1436	M N28 U25		49
401	3	68		MCW	N,SWTCH2	A	7	1443	M N28 U16		49
402	3	69		A	TEN,COUNT	A	7	1450	A N36 N03		49
403	3	70		BCE	TSTND,COUNT-1,5	A	8	1457	B W69 N02 5		49
404	3	71		SW	ENDSW	A	4	1465	, Q28		49
405	3	72		BWZ	SEL,COUNT-001,2	A	8	1469	V T10 N02 2		50
406	3	73		MCW	B,SWTCH2	A	7	1477	M N11 U16		50
407	3	74	REMOVE	MCW	0&X2,OUT	A	7	1484	M 010 N20		50
408	3	75		C	FORMAT,OUT	A	7	1491	C N27 N20		50
409	3	76		BU	SEL	A	5	1498	B T10 /		50
410	3	77		MCW	@B@,HSW	A	7	1503	M Q11 T94		51
411	3	78		MCW	0&X3,WORK6#6	A	7	1510	M 0?0 Q17		51



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
412	3	79		MCW	@F@,WORK6-3	A	7	1517	M Q18 Q14		51
413	3	80		MCW	WORK6,0&X3	A	7	1524	M Q17 0?0		51
414	3	81		B	SEL	A	4	1531	B T10		51
415	3	82	SLASH	MCW	@@@,FIXED	A	7	1535	M Q19 Q31		51
416	3	83		B	STORE	A	4	1542	B T64		52
417	3	84	NEW	MCW	@N@,FSTNU	A	7	1546	M N49 S60		52
418	3	85		A	&1,STMNO#3	A	7	1553	A N66 Q22		52
419	3	86		MCW	@N@,HSW	A	7	1560	M N49 T94		52
420	3	87		MCW	@N@,HSW2	A	7	1567	M N49 U02		52
421	3	88		MCW	5,211	A	7	1574	M 005 211		52
422	3	89		S	CTUCD#2	A	4	1581	S Q24		53
423	3	09		MCW	@N@,SW1	A	7	1585	M N49 T32		53
424	3	91		MCS	STMNO,203	A	7	1592	Z Q22 203		53
425	3	92		W		A	1	1599	2		53
426	3	93		SW	STORE&004	A	4	1600	, T68		53
427	3	94		MCW	STORE&006,LOADGM&006	A	7	1604	M T70 W28		53
428	3	95		CW	STORE&4	A	4	1611	) T68		53
429	3	96		MCW	M,JUMP	A	7	1615	M N37 U25		54
430	3	97	LOADGM	LCA	GM,0000	A	7	1622	L N29 000		54
431	3	98		SBR	XL3	A	4	1629	H 099		54
432	3	99		SBR	STORE&006	A	4	1633	H T70		54
433	4	00		MCW	MARK,WORK&009	A	7	1637	M N34 M34		54
434	4	01		MCW	B,SWTCH2	A	7	1644	M N11 U16		54
435	4	02		MCW	TWO,COUNT	A	7	1651	M N13 N03		55
436	4	03		MCW	INILZ2,SEL&003	A	7	1658	M N09 T13		55
437	4	04		B	SEL	A	4	1665	B T10		55
438	4	05	TSTND	C	0&X2,@DNE@	A	7	1669	C 0!0 Q27		55
439	4	06		BU	SEL	A	5	1676	B T10 /		55
440	4	07		CW	ENDSW#1	A	4	1681	) Q28		55
441	4	08		B	SEL	A	4	1685	B T10		55
442	4	09	ATSGN	MCW	@-@,FIXED	A	7	1689	M Q29 Q31		56
443	4	10		B	STORE	A	4	1696	B T64		56
444	4	11	ABIT	BCE	INPUT,FIXED,	A	8	1700	B L73 Q31		56
445	4	12		BCE	INPUT,FIXED,	A	8	1708	B L73 Q31		56
446	4	13		BCE	SLASH,FIXED,/	A	8	1716	B V35 Q31 /		56
447	4	14		BCE	ATSGN,FIXED,@	A	8	1724	B W89 Q31 @		57
448	4	15		MCW	@*@,300	A	7	1732	M Q30 300		57
449	4	16		MCW	KPROC	A	4	1739	M N48		57
450	4	17		MCW	FIXED#1	A	4	1743	M Q31		57
451	4	18		B	STORE	A	4	1747	B T64		57
452	4	19	HOLLR	MCW	STORE&6,XL1	A	7	1751	M T70 089		57
453	4	20		MCW	@N@,HSW	A	7	1758	M N49 T94		58
454	4	21		MCW	@N@,HSW2	A	7	1765	M N49 U02		58
455	4	22		MCW	@B@,SW1	A	7	1772	M Q11 T32		58
456	4	23		MCW	4&X1,WORK3#3	A	7	1779	M 0 4 Q34		58
457	4	24		BCE	*&9,WORK3-1,@	A	8	1786	B Y02 Q33 @		58
458	4	25		BWZ	MYB2,WORK3-1,2	A	8	1794	V Y17 Q33 2		59
459	4	26		MCW	WORK3-2,WORK3	A	7	1802	M Q32 Q34		59
460	4	27		MCW	@00@	A	4	1809	M Q36		59
461	4	28		B	CMPAR	A	4	1813	B U09		59

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
462	4	29	MYB2	BCE	*&9,WORK3,@	A	8	1817	B Y33 Q34 @		59
463	4	30		BWZ	ISTRI,WORK3,2	A	8	1825	V Y51 Q34 2		59
464	4	31		MCW	WORK3-2,WORK3	A	7	1833	M Q32 Q34		60
465	4	32		MCW	@0@,WORK3-2	A	7	1840	M Q37 Q32		60
466	4	33		B	CMPAR	A	4	1847	B U09		60
467	4	34	ISTRI	MCW	WORK3,SAV1#1	A	7	1851	M Q34 Q38		60
468	4	35		MCW	WORK3-2,WORK3	A	7	1858	M Q32 Q34		60
469	4	36		MCW	SAV1,WORK3-2	A	7	1865	M Q38 Q32		60
470	4	37		B	CMPAR	A	4	1872	B U09		61
471	4	38	UNPAK	SBR	PKXT&3	A	4	1876	H Z72		61
472	4	39		UNPAK	DUM3,DUM5	A				MACRO	
473				S	)0M005#2	A	4	1880	S Q40	GEN	61
474				S	)0L005#2	A	4	1884	S Q42	GEN	61
475				MZ	DUM3,)0M005-1	A	7	1888	Y N60 Q39	GEN	61
476				MZ	DUM3-2,)0L005-1	A	7	1895	Y N58 Q41	GEN	61
477			)0J005	BWZ	)0K005,)0L005-1, 2	A	8	1902	V Z21 Q41 2	GEN	61
478				A	@A0@,)0L005	A	7	1910	A Q44 Q42	GEN	62
479				B	)0J005	A	4	1917	B Z02	GEN	62
480			)0K005	BWZ	)0P005,)0M005-1, 2	A	8	1921	V Z40 Q39 2	GEN	62
481				A	@?4@,)0M005	A	7	1929	A Q46 Q40	GEN	62
482				B	)0K005	A	4	1936	B Z21	GEN	62
483			)0P005	A	)0L005-1,)0M005	A	7	1940	A Q41 Q40	GEN	62
484				MCW	DUM3,DUM5	A	7	1947	M N60 N65	GEN	63
485				MCW	)0M005	A	4	1954	M Q40	GEN	63
486				ZA	DUM5	A	4	1958	? N65	GEN	63
487				MZ	*-4, DUM5	A	7	1962	Y Z64 N65	GEN	63
488	4	40	PKXT	B	000	A	4	1969	B 000		63
489	4	41	ABIT2	EQU	*&1	A		1973			
490	4	42	CKLHC	BCE	INPUT,FIXED,	A	8	1973	B L73 Q31		63
491	4	43		S	&1,WORK3	A	7	1981	S N66 Q34		64
492	4	44		C	WORK3,&000	A	7	1988	C Q34 Q49		64
493	4	45		BU	STORE	A	5	1995	B T64 /		64
494	4	46		MCW	@M@,HSW2	A	7	2000	M Q50 U02		64
495	4	47		MCW	N,SW1	A	7	2007	M N28 T32		64
496	4	48		MCW	SEL&3,XL1	A	7	2014	M T13 089		65
497	4	49		C	0&X1,@,@	A	7	2021	C 0 0 Q51		65
498	4	50		BE	STORE	A	5	2028	B T64 S		65
499	4	51		MCW	STORE&6,*&7	A	7	2033	M T70 !46		65
500	4	52		MCW	0,0	A	7	2040	M 000 000		65
501	4	53		MCW	@,@	A	4	2047	M Q51		65
502	4	54		SBR	STORE&6	A	4	2051	H T70		66
503	4	55		A	&1,TOTAL	A	7	2055	A N66 Q07		66
504	4	46		B	INCTO	A	4	2062	B T75		66
505	4	57		B	STORE	A	4	2066	B T64		66
506	4	58	SCANR	MCW	STORE&6,XL1	A	7	2070	M T70 089		66
507	4	59		LCA	GM,0&X1	A	7	2077	L N29 0 0		66
508	4	60		SBR	XL1	A	4	2084	H 089		66
509	4	61		CC	1	A	2	2088	F 1		67
510	4	62		CS	332	A	4	2090	/ 332		67
511	4	63		CS		A	1	2094	/		67

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
512	4	64		MCS	TOTAL,205	A	7	2095	Z Q07 205		67
513	4	65		MCW	@INPUT CHARACTERS@,222	A	7	2102	M Q67 222		67
514	4	66		W		A	1	2109	2		67
515	4	67		CC	J	A	2	2110	F J		67
516	4	68		MCW	STMNO,INTSTZ	A	7	2112	M Q22 183		68
517	4	69		LCA	@ }POTS:R000@,0&X1	A	7	2119	L Q78 0 0		68
518	4	70		SBR	XL1	A	4	2126	H 089		68
519	4	71		SW	2&X1	A	4	2130	, 0 2		68
520	4	72		A	&1,INTSTZ	A	7	2134	A N66 183		68
521	4	73		BCE	*&5,LDRND,	A	8	2141	B J53 ?00		68
522	4	74		B	QUIT	A	4	2149	B K33		69
523	4	75		SBR	TCLEAR,SYSGM	A	7	2153	H 710 R99		69
524	4	76		SBR	BCLEAR,XBEGIN	A	7	2160	H 833 838		69
525	4	77		BSS	333,C	A	5	2167	B 333 C		69
526	4	78		LCA	@SCANNER@,110	A	7	2172	L Q85 110		69
527	4	79		CS	080	A	4	2179	/ 080		69
528	4	80		SW	1,40	A	7	2183	, 001 040		70
529	4	81		SW	47,54	A	7	2190	, 047 054		70
530	4	82		SW	61,68	A	7	2197	, 061 068		70
531	4	83		SW	72	A	4	2204	, 072		70
532	4	84		BCE	MONTER,MONTOR,N	A	8	2208	B 700 769 N		70
533	4	85		R		A	1	2216	1		70
534	4	86		C	7,@SCANNER@	A	7	2217	C 007 Q92		71
535	4	87		BE	MONTER	A	5	2224	B 700 S		71
536	4	88		B	PRMSG	A	4	2229	B /90		71
537	4	89	QUIT	FQUIT		A				MACRO	
538			QUIT	CS	332	A	4	2233	/ 332	GEN	71
539				CS		A	1	2237	/	GEN	71
540				CC	1	A	2	2238	F 1	GEN	71
541				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	A	7	2240	M R28 270	GEN	71
542				W		A	1	2247	2	GEN	72
543				CC	1	A	2	2248	F 1	GEN	72
544				BCE	*&6,MONTOR,1	A	8	2250	B K63 769 1	GEN	72
545				RWD	1	A	5	2258	U %U1 R	GEN	72
546				H	*-3	A	4	2263	. K63	GEN	72
547	4	90	PRTHD	CC	1	A	2	2267	F 1		72
548	4	91		MCW	@@@,TOVL&4	A	7	2269	M Q19 S32		72
549	4	92		CS	299	A	4	2276	/ 299		73
550	4	93		A	ONE,PGNO#003	A	7	2280	A N10 R31		73
551	4	94		MCS	PGNO,299	A	7	2287	Z R31 299		73
552	4	95		MCW	@ PAGE @,295	A	7	2294	M R39 295		73
553	4	96		MCW	080	A	4	2301	M 080		73
554	4	97		W		A	1	2305	2		73
555	4	98		CS	299	A	4	2306	/ 299		73
556	4	99		MCW	KFSM,234	A	7	2310	M M23 234		74
557	5	00		W		A	1	2317	2		74
558	5	01		CC	J	A	2	2318	F J		74
559	5	02		B	M2PRT	A	4	2320	B S33		74
560	5	03	NOPRM	MESSG	@MESSAGE 3 - NO PARAMETER CARD@,70,1,1	A				MACRO	
561			NOPRM	CC	1	A	2	2324	F 1	GEN	74

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
562				CS	332	A	4	2326	/ 332	GEN	74
563				CS		A	1	2330	/	GEN	74
564				MCW	@MESSAGE 3 - NO PARAMETER CARD@,70&200	A	7	2331	M R68 270	GEN	75
565				W		A	1	2338	2	GEN	75
566				CC	1	A	2	2339	F 1	GEN	75
567	5	04		BCE	*&6,MONTOR,1	A	8	2341	B L54 769 1		75
568	5	05		RWD	1	A	5	2349	U %U1 R		75
569	5	06		H	*-3	A	4	2354	. L54		75
570	5	07	CMNT	MCW	BLNK3#3,203	A	7	2358	M R71 203		75
571	5	08		MCW	005,211	A	7	2365	M 005 211		76
572	5	09		W		A	1	2372	2		76
573	5	10	INPUT	BLC	SCANR	A	5	2373	B !70 A		76
574	5	11		R		A	1	2378	1		76
575	5	12		B	MOVE	A	4	2379	B /74		76
576	5	13	CHAR	DCW	@\$/  @ LAST TWO A-BIT,BLANK	A	6	2388			76
577	5	14	KFSM	DCW	@ SEQ STMT FORTRAN STATEMENT@	A	35	2423			77
578	5	15		DCW	@ @	A	1	2424			77
579	5	16	WORK	DS	01	A		2425			
580	5	17		DS	76	A		2501			
581	5	18	COUNT	DCW	#2	A	2	2503			78
582	5	19	INILZ1	DSA	&WORK&010	A	3	2506	M35		78
583	5	20	INILZ2	DSA	&WORK	A	3	2509	M25		78
584	5	21	ONE	DCW	@1@	A	1	2510			78
585	5	22	B	DC	@B@	A	1	2511			78
586	5	23	TWO	DC	@20@	A	2	2513			78
587	5	24	OUT	DCW	@ @	A	7	2520			78
588	5	25	FORMAT	DCW	@%TAMROF@	A	7	2527			78
589	5	26	N	DC	@N@	A	1	2528			78
590	5	27	GM	DC	@}@	A	1	2529		GMARK	78
591	5	28	NUMBER	DCW	@000R@	A	4	2533			78
592	5	29	MARK	DCW	@:@	A	1	2534			79
593	5	30	TEN	DCW	@10@	A	2	2536			79
594	5	31	M	DC	@M@	A	1	2537			79
595	5	32	KPROC	DCW	@ PROCESSED @	A	11	2548			79
596	5	33		LTORG	*	A			2549		
				DCW	@N@	A	1	2549		LIT	79
				DCW	@PARAM@	A	5	2554		LIT	79
			LARRYA	DCW	#03	A	3	2557		AREA	79
			DUM3 A	DCW	#03	A	3	2560		AREA	79
			DUM5 A	DCW	#05	A	5	2565		AREA	80
				DCW	&1	A	1	2566		LIT	80
				DCW	@START OF FORTRAN COMPILATION@	A	28	2594		LIT	80
				DCW	@MACHINE SIZE SPECIFIED IS @	A	26	2620		LIT	81
				DCW	@ACTUAL MACHINE SIZE IS @	A	23	2643		LIT	82
			WK51 A	DCW	#05	A	5	2648		AREA	82
			WK5 A	DCW	#05	A	5	2653		AREA	82
				DCW	@03900@	A	5	2658		LIT	82
				DCW	@MACHINE SIZE ERROR@	A	18	2676		LIT	83
				DCW	@SPECIFIED IS GREATER THAN ACTUAL MACHINE SIZE.@	A	46	2722		LIT	85
				DCW	@ERROR - MACHINE SIZE @	A	21	2743		LIT	85

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	&SYSGMA	A	3	2746	R99	ADCON	85
				DCW	@MESSAGE 1-SYSTEM DOES NOT FOLLOW END CARD@	A	41	2787		LIT	87
				DCW	@CONTINUE CD ERR@	A	15	2802		LIT	87
			TOTALA	DCW	#05	A	5	2807		AREA	87
				DCW	&LDRNDA	A	3	2810	?00	ADCON	87
				DCW	@B@	A	1	2811		LIT	87
			WORK6A	DCW	#06	A	6	2817		AREA	88
				DCW	@F@	A	1	2818		LIT	88
				DCW	@@@	A	1	2819		LIT	88
			STMNOA	DCW	#03	A	3	2822		AREA	88
			CTUCDA	DCW	#02	A	2	2824		AREA	88
				DCW	@DNE@	A	3	2827		LIT	88
			ENDSWA	DCW	#01	A	1	2828		AREA	88
				DCW	@-@	A	1	2829		LIT	89
				DCW	@*@	A	1	2830		LIT	89
			FIXEDA	DCW	#01	A	1	2831		AREA	89
			WORK3A	DCW	#03	A	3	2834		AREA	89
				DCW	@00@	A	2	2836		LIT	89
				DCW	@0@	A	1	2837		LIT	89
			SAV1 A	DCW	#01	A	1	2838		AREA	89
			)0M005	DCW	#02	A	2	2840		AREA	90
			)0L005	DCW	#02	A	2	2842		AREA	90
				DCW	@A0@	A	2	2844		LIT	90
				DCW	@?4@	A	2	2846		LIT	90
				DCW	&000	A	3	2849		LIT	90
				DCW	@M@	A	1	2850		LIT	90
				DCW	@,@	A	1	2851		LIT	90
				DCW	@INPUT CHARACTERS@	A	16	2867		LIT	91
				DCW	@ }POTS:R000@	A	11	2878		LIT	91
				DCW	@SCANNER@	A	7	2885		LIT	91
				DCW	@SCANNER@	A	7	2892		LIT	92
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	A	36	2928		LIT	93
			PGNO A	DCW	#03	A	3	2931		AREA	93
				DCW	@ PAGE @	A	8	2939		LIT	94
				DCW	@MESSAGE 3 - NO PARAMETER CARD@	A	29	2968		LIT	94
			BLNK3A	DCW	#03	A	3	2971		AREA	95
597	5	34		ORG	*&X00	A			3000		
598	5	35		ORG	*-1	A			2999		
599	5	36	SYSGM	DCW	@}@	A	1	2999		GMARK	96
600	5	37	LDRND	EQU	*&1	A		3000			
601	5	38		XFR	START	A			B 838		97

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
602	5	39		JOB	1401 FORTRAN SCANNER PHASE	A					
603	5	40	110	DCW	@:@	A	1	0110			100
604	5	41		FBEGN	SCANNER,X1,R,,,,B	A				MACRO	
605				SFX	B	B				GEN	
606			110	DCW	@SCANNER@	B	7	0110		GEN	101
607			X1	EQU	089	B		0089		GEN	
608			089	DCW	000	B	3	0089		GEN	102
609			091	DC	00	B	2	0091		GEN	102
610	5	42		ORG	XBEGIN	B			0838		
611	5	43	START	MCW	PARAM&2,DUMMY&6	B	7	0838	M 688 985		103
612	5	44		SW	PARAM&3,PARAM&5	B	7	0845	, 689 691		103
613	5	45		BCE	*&5,PARAM&4,	B	8	0852	B 864 690		103
614	5	46		B	*&8	B	4	0860	B 871		103
615	5	47		MCW	@05@,PARAM&4	B	7	0864	M M42 690		103
616	5	48		BCE	*&5,PARAM&6,	B	8	0871	B 883 692		104
617	5	49		B	*&8	B	4	0879	B 890		104
618	5	50		MCW	@08@,PARAM&6	B	7	0883	M M44 692		104
619	5	51		C	PARAM&4,@01@	B	7	0890	C 690 M46		104
620	5	52		BH	RDXER	B	5	0897	B U69 U		104
621	5	53		C	PARAM&4,@20@	B	7	0902	C 690 M48		104
622	5	54		BL	RDXER	B	5	0909	B U69 T		105
623	5	55	CKCMT	C	PARAM&6,@20@	B	7	0914	C 692 M48		105
624	5	56		BL	MNTER	B	5	0921	B U95 T		105
625	5	57		C	PARAM&6,@02@	B	7	0926	C 692 M50		105
626	5	58		BH	MNTER	B	5	0933	B U95 U		105
627	5	59	PRDX	CS	332	B	4	0938	/ 332		105
628	5	60		CS		B	1	0942	/		105
629	5	61		MCW	@MODULUS IS@,210	B	7	0943	M M60 210		106
630	5	62		MCS	PARAM&4,213	B	7	0950	Z 690 213		106
631	5	63		W		B	1	0957	2		106
632	5	64		CS	299	B	4	0958	/ 299		106
633	5	65		MCW	@MANTISSA IS@,211	B	7	0962	M M71 211		106
634	5	66		MCS	PARAM&6,214	B	7	0969	Z 692 214		106
635	5	67		W		B	1	0976	2		106
636	5	68		CC	J	B	2	0977	F J		107
637	5	69	DUMMY	BCE	DUMMY,0000,0	B	8	0979	B 979 000 0		107
638	5	70		BCE		B	1	0987	B		107
639	5	71		SBR	MARTY&6	B	4	0988	H T24		107
640	5	72		SBR	REMV&003	B	4	0992	H 999		107
641	5	73	REMV	LCA	0000,WORK	B	7	0996	L 000 L97		107
642	5	74		SAR	REMV&003	B	4	1003	Q 999		107
643	5	75		MCW	NMBR,WORK	B	7	1007	M M00 L97		108
644	5	76		A	ONE,NMBR	B	7	1014	A M01 M00		108
645	5	77		BCE	REPLCE,WORK-3,F	B	8	1021	B T14 L94 F		108
646	5	78		SBR	TWLV58&6,WORK-4	B	7	1029	H  49 L93		108
647	5	79		SBR	FIRST,WORK-5	B	7	1036	H M04 L92		108
648	5	80	TWLV58	BCE	ARITH1,WORK-4,:	B	8	1043	B  75 L93 :		109
649	5	81		SBR	TWLV58&006	B	4	1051	H  49		109
650	5	82		SBR	LENNY&006	B	4	1055	H  65		109
651	5	83	LENNY	BCE	LENNY,0000,	B	8	1059	B  59 000		109

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
652	5	84		SBR	FIRST	B	4	1067	H M04		109
653	5	85		B	TWLV58	B	4	1071	B  43		109
654	5	86	ARITH1	MCW	FIRST,TEST1&006	B	7	1075	M M04  95		109
655	5	87		MCW	FIRST,TEST2&006	B	7	1082	M M04 /08		110
656	5	88	TEST1	BCE	ENCODE,0000,}	B	8	1089	B /73 000 }	GMARK	110
657	5	89		BCE		B	1	1097	B		110
658	5	90		SBR	TEST1&6	B	4	1098	H  95		110
659	5	91	TEST2	BCE	ARITH2,0000,#	B	8	1102	B /19 000 #		110
660	5	92		BCE		B	1	1110	B		110
661	5	93		SBR	TEST2&6	B	4	1111	H /08		110
662	5	94		B	TEST1	B	4	1115	B  89		111
663	5	95	ARITH2	SW	TEST1&004	B	4	1119	,  93		111
664	5	96		MCW	TEST1&006,SEL&003	B	7	1123	M  95 /37		111
665	5	97		CW	TEST1&004	B	4	1130	)  93		111
666	5	98	SEL	MCW	0000,FIXED	B	7	1134	M 000 M05		111
667	5	99		SAR	SEL&003	B	4	1141	Q /37		111
668	6	00		BCE	CKFUN, FIXED,%	B	8	1145	B T49 M05 %		111
669	6	01		BCE	CKFUN, FIXED,}	B	8	1153	B T49 M05 }	GMARK	112
670	6	02		BCE	ENCODE,FIXED,,	B	8	1161	B /73 M05 ,		112
671	6	03		B	SEL	B	4	1169	B /34		112
672	6	04	ENCODE	MCW	FIRST,GRAB10&003	B	7	1173	M M04 /83		112
673	6	05	GRAB10	MCW	0000,FRONT	B	7	1180	M 000 M15		112
674	6	06		SW	FRONT	B	4	1187	, M15		112
675	6	07		SW		B	1	1191	,		112
676	6	08		MCW	FRONT,SCFB&007	B	7	1192	M M15 S06		113
677	6	09	SCFB	BCE	STORE1,CODE,	B	8	1199	B S37 M24		113
678	6	10		CHAIN	3	B				MACRO	
679				BCE		B	1	1207	B	GEN	113
680				BCE		B	1	1208	B	GEN	113
681				BCE		B	1	1209	B	GEN	113
682	6	11		MCW	FRONT-001,AUNIQ&007	B	7	1210	M M14 S24		113
683	6	12	AUNIQ	BCE	STORE2,CODE-004,	B	8	1217	B S71 M20		113
684	6	13		CHAIN	4	B				MACRO	
685				BCE		B	1	1225	B	GEN	114
686				BCE		B	1	1226	B	GEN	114
687				BCE		B	1	1227	B	GEN	114
688				BCE		B	1	1228	B	GEN	114
689	6	14		SW	WORK-003	B	4	1229	, L94		114
690	6	15		B	EASY	B	4	1233	B U22		114
691	6	16	STORE1	C	FRONT-2,@ESN@	B	7	1237	C M13 M74		114
692	6	17		BE	SENSE	B	5	1244	B S60 S		115
693	6	18		MCW	FRONT,WORK-003	B	7	1249	M M15 L94		115
694	6	19		B	CLEAR	B	4	1256	B T09		115
695	6	20	SENSE	MCW	@J@,WORK-3	B	7	1260	M M75 L94		115
696	6	21		B	CLEAR	B	4	1267	B T09		115
697	6	22	STORE2	MCW	FRONT-001,WORK-003	B	7	1271	M M14 L94		115
698	6	23		BCE	*&5,AUNIQ&7,N	B	8	1278	B S90 S24 N		116
699	6	24		B	CLEAR	B	4	1286	B T09		116
700	6	25		C	FRONT-2,@ELIFD@	B	7	1290	C M13 M80		116
701	6	26		BE	CLEAR	B	5	1297	B T09 S		116

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
702	6	27		MCW	@/,@,WORK-3	B	7	1302	M M81 L94		116
703	6	28	CLEAR	CW	FRONT	B	4	1309	) M15		116
704	6	29		CW		B	1	1313	)		116
705	6	30	REPLCE	CW	WORK-003	B	4	1314	) L94		117
706	6	31	MARTY	LCA	WORK,0000	B	7	1318	L L97 000		117
707	6	32		SBR	MARTY&006	B	4	1325	H T24		117
708	6	33		SBR	END&006	B	4	1329	H T43		117
709	6	34		SBR	083	B	4	1333	H 083		117
710	6	35	END	BCE	RELOKT,0000,	B	8	1337	B W72 000		117
711	6	36		B	REMOV	B	4	1345	B 996		117
712	6	37	CKFUN	MCW	TEST2&6,X1	B	7	1349	M /08 089		118
713	6	38		BCE	MAYFN,1&X1,)	B	8	1356	B T69 0 1 )		118
714	6	39		BCE		B	1	1364	B		118
715	6	40		B	REPLCE	B	4	1365	B T14		118
716	6	41	MAYFN	BCE	NDFND,2&X1,%	B	8	1369	B T85 0 2 %		118
717	6	42		SBR	X1	B	4	1377	H 089		118
718	6	43		B	MAYFN	B	4	1381	B T69		118
719	6	44	NDFND	BCE	PROBF,3&X1,F	B	8	1385	B T97 0 3 F		119
720	6	45		B	REPLCE	B	4	1393	B T14		119
721	6	46	PROBF	BCE	REPLCE,6&X1,:	B	8	1397	B T14 0 6 :		119
722	6	47		BCE		B	1	1405	B		119
723	6	48		BCE		B	1	1406	B		119
724	6	49		MCW	@R@,WORK-3	B	7	1407	M M82 L94		119
725	6	50		SW	FUNCSW	B	4	1414	, 195		119
726	6	51		B	REPLCE	B	4	1418	B T14		120
727	6	52	EASY	CW	FRONT	B	4	1422	) M15		120
728	6	53		CW		B	1	1426	)		120
729	6	54		C	FRONT,SNSE	B	7	1427	C M15 M32		120
730	6	55		BIN	DO,/	B	5	1434	B V21 /		120
731	6	56		BCE	LIGHT,FRONT-8,L	B	8	1439	B U58 M07 L		120
732	6	57		MCW	CONST,WORK-003	B	7	1447	M M40 L94		120
733	6	58		B	REPLCE	B	4	1454	B T14		121
734	6	59	LIGHT	MCW	@K@,WORK-3	B	7	1458	M M83 L94		121
735	6	60		B	REPLCE	B	4	1465	B T14		121
736	6	61	RDXER	MESSG	@ERROR 42 - MODULUS@,18,,J	B				MACRO	
737			RDXER	CS	332	B	4	1469	/ 332	GEN	121
738				CS		B	1	1473	/	GEN	121
739				MCW	@ERROR 42 - MODULUS@,18&200	B	7	1474	M N01 218	GEN	121
740				W		B	1	1481	2	GEN	121
741				CC	J	B	2	1482	F J	GEN	122
742	6	62		MCW	@05@,PARAM&4	B	7	1484	M M42 690		122
743	6	63		B	CKCMT	B	4	1491	B 914		122
744	6	64	MNTER	MESSG	@ERROR 43 - MANTISSA@,19,,J	B				MACRO	
745			MNTER	CS	332	B	4	1495	/ 332	GEN	122
746				CS		B	1	1499	/	GEN	122
747				MCW	@ERROR 43 - MANTISSA@,19&200	B	7	1500	M N20 219	GEN	122
748				W		B	1	1507	2	GEN	122
749				CC	J	B	2	1508	F J	GEN	123
750	6	65		MCW	@08@,PARAM&6	B	7	1510	M M44 692		123
751	6	66		B	PRDX	B	4	1517	B 938		123

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IF SENSE SWITCH



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
752	6	67	DO	BCE	PUT1,FRONT,D	D FOR DO	B	8	1521	B V95 M15 D	123
753	6	68		BCE	PUT2,FRONT-002,%	3RD PAREN IF	B	8	1529	B W06 M13 %	123
754	6	69		BCE	PUT3,FRONT-004,%	5TH PAREN GO TO	B	8	1537	B W17 M11 %	123
755	6	70		BCE	PUT4,FRONT,G	G FOR GO TO	B	8	1545	B W28 M15 G	124
756	6	71		BCE	PUT5,FRONT,P	P FO PRINT	B	8	1553	B W39 M15 P	124
757	6	72		BWZ	PUT6,FRONT-004,2	5TH NUMERL READN	B	8	1561	V W50 M11 2	124
758	6	73		BCE	PUT7,FRONT-005,D	6TH D FOR REWIND	B	8	1569	B W61 M10 D	124
759	6	74		MCW	ONE,WORK-003		B	7	1577	M M01 L94	124
760	6	75		MN	FRONT-005,WORK-003		B	7	1584	D M10 L94	125
761	6	76		B	REPLCE		B	4	1591	B T14	125
762	6	77	PUT1	MCW	CONST-001,WORK-003		B	7	1595	M M39 L94	125
763	6	78		B	REPLCE		B	4	1602	B T14	125
764	6	79	PUT2	MCW	CONST-002,WORK-003		B	7	1606	M M38 L94	125
765	6	80		B	REPLCE		B	4	1613	B T14	125
766	6	81	PUT3	MCW	CONST-003,WORK-003		B	7	1617	M M37 L94	126
767	6	82		B	REPLCE		B	4	1624	B T14	126
768	6	83	PUT4	MCW	CONST-004,WORK-003		B	7	1628	M M36 L94	126
769	6	84		B	REPLCE		B	4	1635	B T14	126
770	6	85	PUT5	MCW	CONST-005,WORK-003		B	7	1639	M M35 L94	126
771	6	86		B	REPLCE		B	4	1646	B T14	126
772	6	87	PUT6	MCW	CONST-006,WORK-003		B	7	1650	M M34 L94	127
773	6	88		B	REPLCE		B	4	1657	B T14	127
774	6	89	PUT7	MCW	CONST-007,WORK-003		B	7	1661	M M33 L94	127
775	6	90		B	REPLCE		B	4	1668	B T14	127
776	6	91	RELOKT	FENDX	C,,,BEGINC,,CLRFCT,ORTER ONE		B			MACRO	
777			RELOKT	BSS	333,C		B	5	1672	B 333 C	GEN 127
778				SBR	INITXT&3,BEGINC		B	7	1677	H 796  10	GEN 127
779				SBR	TCLEAR,CLRFCT		B	7	1684	H 710 N99	GEN 128
780				LCA	@SORTER ONE@,110		B	7	1691	L N30 110	GEN 128
781				B	MONTER		B	4	1698	B 700	GEN 128
782	6	92		DCW	@ @	BLANK	B	1	1702		128
783	6	93		DCW	@ @		B	1	1703		128
784	6	94		ORG	*&693		B			2397	
785	6	95	WORK	DS	01		B		2397		
786	6	96	NMBR	DCW	@001@		B	3	2400		129
787	6	97	ONE	DCW	@1@		B	1	2401		129
788	6	98	FIRST	DCW	#3		B	3	2404		129
789	6	99	FIXED	DCW	#1		B	1	2405		129
790	7	00	FRONT	DCW	#10		B	10	2415		129
791	7	01	CODE	DC	@QINUABFCS@		B	9	2424		129
792	7	02	SNSE	DCW	@ESNES%FI@		B	8	2432		129
793	7	03	CONST	DC	@ZLPGTEDW@		B	8	2440		130
794	7	04		LTORG	*		B			2441	
				DCW	@05@		B	2	2442		LIT 130
				DCW	@08@		B	2	2444		LIT 130
				DCW	@01@		B	2	2446		LIT 130
				DCW	@20@		B	2	2448		LIT 130
				DCW	@02@		B	2	2450		LIT 131
				DCW	@MODULUS IS@		B	10	2460		LIT 131
				DCW	@MANTISSA IS@		B	11	2471		LIT 131

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@ESN@	B	3	2474		LIT	131
				DCW	@J@	B	1	2475		LIT	131
				DCW	@ELIFD@	B	5	2480		LIT	131
				DCW	@/@	B	1	2481		LIT	131
				DCW	@R@	B	1	2482		LIT	132
				DCW	@K@	B	1	2483		LIT	132
				DCW	@ERROR 42 - MODULUS@	B	18	2501		LIT	132
				DCW	@ERROR 43 - MANTISSA@	B	19	2520		LIT	132
				DCW	@SORTER ONE@	B	10	2530		LIT	133
795	7	05		ORG	*X00	B			2600		
796	7	06	CLRFCT	EQU	*	B		2599			
797	7	07		DCW	@}@	B	1	2600		GMARK	134
798	7	08		XFR	START	B			B 838		135

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
799	7	09		JOB	1401 FORTRAN SORTER PHASE ONE	B					
800	7	10		FBEGN	SORTER ONE,XL1,R,XL2,R,XL3,R,C,XXXX	B				MACRO	
801				SFX	C	C				GEN	
802			XXXX	EQU	0	C		0000		GEN	
803			110	DCW	@SORTER ONE@	C	10	0110		GEN	138
804			XL1	EQU	089	C		0089		GEN	
805			089	DCW	000	C	3	0089		GEN	139
806			091	DC	00	C	2	0091		GEN	139
807			XL2	EQU	094	C		0094		GEN	
808			094	DCW	000	C	3	0094		GEN	139
809			096	DC	00	C	2	0096		GEN	139
810			XL3	EQU	099	C		0099		GEN	
811			099	DCW	000	C	3	0099		GEN	139
812			100	DC	0	C	1	0100		GEN	139
813	7	11		ORG	XBEGIN	C			0838		
814	7	12	TABLE	DA	40X3,C	C		0838	0957		139
815	7	13		ORG	*X00	C			1000		
816	7	14		DS	6	C		1005			
817	7	15	ZONE	DCW	@2SKB@	C	4	1009			150
818	7	16	BEGIN	CS	CLRFACT	C	4	1010	/ N99		150
819	7	17		CHAIN	8	C				MACRO	
820				CS		C	1	1014	/	GEN	150
821				CS		C	1	1015	/	GEN	150
822				CS		C	1	1016	/	GEN	150
823				CS		C	1	1017	/	GEN	150
824				CS		C	1	1018	/	GEN	150
825				CS		C	1	1019	/	GEN	151
826				CS		C	1	1020	/	GEN	151
827				CS		C	1	1021	/	GEN	151
828	7	18	START	MCW	083,XL3	C	7	1022	M 083 099		151
829	7	19		MCM	2&X3	C	4	1029	P 0?2		151
830	7	20		MCW		C	1	1033	M		151
831	7	21		SBR	XL3	C	4	1034	H 099		151
832	7	22		MCW	0&X3,WORK3#3	C	7	1038	M 0?0 T52		152
833	7	23		ZA	WORK3,HOLD5#5	C	7	1045	? T52 T57		152
834	7	24		A	HOLD5	C	4	1052	A T57		152
835	7	25		A	WORK3,HOLD5	C	7	1056	A T52 T57		152
836	7	26		S	&2,HOLD5	C	7	1063	S T58 T57		152
837	7	27		MCW	HOLD5,HLD5A#5	C	7	1070	M T57 T63		152
838	7	28		MCW	@16000@,HOLD5	C	7	1077	M T68 T57		153
839	7	29		S	HLD5A,HOLD5	C	7	1084	S T63 T57		153
840	7	30		BAV	*&1	C	5	1091	B  96 Z		153
841	7	31	SUB	A	&96,HOLD5-3	C	7	1096	A T70 T54		153
842	7	32		BAV	SUB	C	5	1103	B  96 Z		153
843	7	33		MN	HOLD5-3,*&4	C	7	1108	D T54 /18		153
844	7	34		MZ	ZONE,HOLD5-2	C	7	1115	Y  09 T55		154
845	7	35		MCW	083,XL1	C	7	1122	M 083 089		154
846	7	36		MCW	XL1,NOP&3	C	7	1129	M 089 /53		154
847	7	37		MCW	HOLD5,XL2	C	7	1136	M T57 094		154
848	7	38		MZ	@J@,NOP&2	C	7	1143	Y T71 /52		154

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
849	7	39	NOP	NOP	XXXX	C	4	1150	N 000		154
850	7	40		SAR	XL2	C	4	1154	Q 094		155
851	7	41		UNPAK	XL2,HOLD5	C				MACRO	
852				S	)0M013#2	C	4	1158	S T73	GEN	155
853				S	)0L013#2	C	4	1162	S T75	GEN	155
854				MZ	XL2,)0M013-1	C	7	1166	Y 094 T72	GEN	155
855				MZ	XL2-2,)0L013-1	C	7	1173	Y 092 T74	GEN	155
856			)0J013	BWZ	)0K013, )0L013-1, 2	C	8	1180	V /99 T74 2	GEN	155
857				A	@A0@, )0L013	C	7	1188	A T77 T75	GEN	156
858				B	)0J013	C	4	1195	B /80	GEN	156
859			)0K013	BWZ	)0P013, )0M013-1, 2	C	8	1199	V S18 T72 2	GEN	156
860				A	@?4@, )0M013	C	7	1207	A T79 T73	GEN	156
861				B	)0K013	C	4	1214	B /99	GEN	156
862			)0P013	A	)0L013-1,)0M013	C	7	1218	A T74 T73	GEN	156
863				MCW	XL2,HOLD5	C	7	1225	M 094 T57	GEN	157
864				MCW	)0M013	C	4	1232	M T73	GEN	157
865				ZA	HOLD5	C	4	1236	? T57	GEN	157
866				MZ	*-4, HOLD5	C	7	1240	Y S42 T57	GEN	157
867	7	42		C	HOLD5,@02900@	C	7	1247	C T57 T84		157
868	7	43		BL	MOVE	C	5	1254	B S93 T		157
869	7	44		FQUIT		C				MACRO	
870				CS	332	C	4	1259	/ 332	GEN	157
871				CS		C	1	1263	/	GEN	158
872				CC	1	C	2	1264	F 1	GEN	158
873				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	C	7	1266	M U20 270	GEN	158
874				W		C	1	1273	2	GEN	158
875				CC	1	C	2	1274	F 1	GEN	158
876				BCE	*&6,MONTOR,1	C	8	1276	B S89 769 1	GEN	158
877				RWD	1	C	5	1284	U %U1 R	GEN	158
878				H	*-3	C	4	1289	. S89	GEN	159
879	7	45	MOVE	MCW	XL2,083	C	7	1293	M 094 083		159
880	7	46		MCM	0&X1	C	4	1300	P 0 0		159
881	7	47		SAR	XL1	C	4	1304	Q 089		159
882	7	48		FENDX	C, , ,START,NUSTM,START,SYSMK,SORT 2	C				MACRO	
883				BSS	333,C	C	5	1308	B 333 C	GEN	159
884				SBR	INITAP&6,START	C	7	1313	H 786  22	GEN	159
885				SBR	BCLEAR	C	4	1320	H 833	GEN	159
886				SBR	INITXT&3,NUSTM	C	7	1324	H 796  22	GEN	160
887				SBR	TCLEAR,SYSMK	C	7	1331	H 710 U27	GEN	160
888				LCA	@SORT 2@,110	C	7	1338	L U26 110	GEN	160
889				B	MONTER	C	4	1345	B 700	GEN	160
890	7	49		DCW	0	C	1	1349			160
891	7	50		LTORG	*	C			1350		
			WORK3C	DCW	#03	C	3	1352		AREA	160
			HOLD5C	DCW	#05	C	5	1357		AREA	160
				DCW	&2	C	1	1358		LIT	161
			HLD5AC	DCW	#05	C	5	1363		AREA	161
				DCW	@16000@	C	5	1368		LIT	161
				DCW	&96	C	2	1370		LIT	161
				DCW	@J@	C	1	1371		LIT	161

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			)0M013	DCW	#02	C	2	1373		AREA	161
			)0L013	DCW	#02	C	2	1375		AREA	161
				DCW	@A0@	C	2	1377		LIT	162
				DCW	@?4@	C	2	1379		LIT	162
				DCW	@02900@	C	5	1384		LIT	162
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	C	36	1420		LIT	163
				DCW	@SORT 2@	C	6	1426		LIT	164
892	7	51	SYSMK	DCW	@}@	C	1	1427		GMARK	164
893	7	52		XFR	BEGIN	C			B  10		165

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
894	7	53		JOB	1401 FORTRAN SORTER PHASE TWO	C					
895	7	54	110	DCW	@SORT 2@	C	6	0110			168
896	7	55		ORG	START	C			1022		
897	7	56	NUSTM	MCW	XL1,XL3	C	7	1022	M 089 099		169
898	7	57		SW	GM2	C	4	1029	, S19		169
899	7	58		MCM	0&X1	C	4	1033	P 0 0		169
900	7	59		MN		C	1	1037	D		169
901	7	60		MN		C	1	1038	D		169
902	7	61		SAR	XL1	C	4	1039	Q 089		169
903	7	62		LCA	0&X1, HOLD-3	C	7	1043	L 0 0 Z19		169
904	7	63		MCM	0&X1	C	4	1050	P 0 0		170
905	7	64		SAR	XL1	C	4	1054	Q 089		170
906	7	65		MCM	0&X3,0&X2	C	7	1058	P 0?0 0!0		170
907	7	66		SBR	XL2	C	4	1065	H 094		170
908	7	67		LCA	HOLD,1&X2	C	7	1069	L Z22 0!1		170
909	7	68		S	XL3&1	C	4	1076	S 100		170
910	7	69		MCW	0&X2,HOLD6#6	C	7	1080	M 0!0 !05		170
911	7	70		MN	HOLD6-5, XL3	C	7	1087	D !00 099		171
912	7	71		MCW	XL3,SAVE3	C	7	1094	M 099 !03		171
913	7	72		A	XL3	C	4	1101	A 099		171
914	7	73		A	SAVE3,XL3	C	7	1105	A !03 099		171
915	7	74		BWZ	CNTU,HOLD6-5, 2	C	8	1112	V /57 !00 2		171
916	7	75		A	&30,XL3	C	7	1120	A !07 099		172
917	7	76		BWZ	CNTU,HOLD6-5, S	C	8	1127	V /57 !00 S		172
918	7	77		A	&30,XL3	C	7	1135	A !07 099		172
919	7	78		BWZ	CNTU,HOLD6-5, K	C	8	1142	V /57 !00 K		172
920	7	79		A	&30,XL3	C	7	1150	A !07 099		172
921	7	80	CNTU	MCW	TABLE&2&X3,1&X2	C	7	1157	M 8D0 0!1		173
922	7	81		LCA	GM2,2&X2	C	7	1164	L S19 0!2		173
923	7	82		SBR	TABLE&2&X3	C	4	1171	H 8D0		173
924	7	83		MCM	2&X2	C	4	1175	P 0!2		173
925	7	84		SAR	XL2	C	4	1179	Q 094		173
926	7	85		C	XL2,PARAM&2	C	7	1183	C 094 688		173
927	7	86		BU	NUSTM	C	5	1190	B  22 /		173
928	7	87		FENDX	C,GM2,,,,,END-1,SORT 3	C				MACRO	
929				BSS	333,C	C	5	1195	B 333 C	GEN	174
930				SBR	TCLEAR,END-1	C	7	1200	H 710 Q99	GEN	174
931				LCA	@SORT 3@,110	C	7	1207	L !13 110	GEN	174
932				B	MONTER	C	4	1214	B 700	GEN	174
933	7	88		DCW	0	C	1	1218			174
934	7	89	GM2	DC	@}@	C	1	1219		GMARK	174
935	7	90		ORG	*&700	C			1920		
936	7	91	HOLD	DC	#3	C	3	1922			175
937	7	92		ORG	*&X00	C			2000		
938	7	93	EOTWO	EQU	*&1	C		2000			
939	7	94		LTORG	*	C			2000		
			HOLD6C	DCW	#06	C	6	2005		AREA	176
				DCW	&30	C	2	2007		LIT	176
				DCW	@SORT 3@	C	6	2013		LIT	176
940	7	95		DCW	@}@	C	1	2014		GMARK	176
					SYSTEM GROUP MARK						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
941	7	96		XFR	NUSTM	C			B   22		177

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
942	7	97		JOB	1401 FORTRAN SORTER PHASE 3	C					
943	7	98	110	DCW	@SORT 3@	C	6	0110			180
944	7	99	X1	EQU	089	C		0089			
945	8	00	X2	EQU	094	C		0094			
946	8	01		ORG	START	C			1022		
947	8	02	AGAIN	MCW	083,XL3	C	7	1022	M 083 099		181
948	8	03		SW	GM	C	4	1029	, Y06		181
949	8	04		SBR	XL1,END-1	C	7	1033	H 089 Q99		181
950	8	05		SW	END	C	4	1040	, R00		181
951	8	06		MN	0&X3	C	4	1044	D 0?0		181
952	8	07		LCA	GM	C	4	1048	L Y06		181
953	8	08		SBR	PICK&6	C	4	1052	H /10		181
954	8	09		SBR	TBEGIN#3,LIST	C	7	1056	H Y10 X99		182
955	8	10	NUTYP	MCW	TBEGIN,XL3	C	7	1063	M Y10 099		182
956	8	11		MCW	0&X3,XL3	C	7	1070	M 0?0 099		182
957	8	12		SAR	TBEGIN	C	4	1077	Q Y10		182
958	8	13		BCE	EOJ,XL3,X	C	8	1081	B W47 099 X		182
959	8	14		MCW	TABLE&2&X3,XL3	C	7	1089	M 8D0 099		183
960	8	15		BCE	NUTYP,XL3,	C	8	1096	B  63 099		183
961	8	16	PICK	MCW	0&X3,XXXX	C	7	1104	M 0?0 000		183
962	8	17		SAR	XL2	C	4	1111	Q 094		183
963	8	18		BCE	AOK1,1&X2,}	C	8	1115	B /27 0!1 }	GMARK	183
964	8	19		B	PACK	C	4	1123	B S95		183
965	8	20	AOK1	SBR	XL2,2&X2	C	7	1127	H 094 0!2		184
966	8	21	BACK5	MCM	0&X2	C	4	1134	P 0!0		184
967	8	22		SBR	SBR6&6	C	4	1138	H /67		184
968	8	23		MCM	0&X2,1&X1	C	7	1142	P 0!0 0 1		184
969	8	24		SBR	X1	C	4	1149	H 089		184
970	8	25		MN	0&X1	C	4	1153	D 0 0		184
971	8	26		SBR	X1	C	4	1157	H 089		184
972	8	27	SBR6	SBR	X2,0	C	7	1161	H 094 000		185
973	8	28		BCE	BACK5,0&X1,	C	8	1168	B /34 0 0		185
974	8	29		SBR	X1,1&X1	C	7	1176	H 089 0 1		185
975	8	30		CW	PAKSW	C	4	1183	) Y07		185
976	8	31		MN	0&X1	C	4	1187	D 0 0		185
977	8	32		CHAIN	3	C				MACRO	
978				MN		C	1	1191	D	GEN	185
979				MN		C	1	1192	D	GEN	185
980				MN		C	1	1193	D	GEN	186
981	8	33		SAR	XL1	C	4	1194	Q 089		186
982	8	34		LCA	GM,0&X1	C	7	1198	L Y06 0 0		186
983	8	35		SBR	083	C	4	1205	H 083		186
984	8	36		SBR	XL1	C	4	1209	H 089		186
985	8	37	PMOV1	MCM	1&X1	C	4	1213	P 0 1		186
986	8	38		MN		C	1	1217	D		186
987	8	39		SAR	XL1	C	4	1218	Q 089		187
988	8	40		BCE	PMOV1,0&X1,	C	8	1222	B S13 0 0		187
989	8	41		MN	0&X3	C	4	1230	D 0?0		187
990	8	42		CHAIN	5	C				MACRO	
991				MN		C	1	1234	D	GEN	187



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
992				MN		C	1	1235	D	GEN	187
993				MN		C	1	1236	D	GEN	187
994				MN		C	1	1237	D	GEN	187
995				MN		C	1	1238	D	GEN	188
996	8	43		SAR	XL3	C	4	1239	Q 099		188
997	8	44		MN	0&X1	C	4	1243	D 0 0		188
998	8	45		LCA	3&X3	C	4	1247	L 0?3		188
999	8	46		MCW	@#0, 0&X3	C	7	1251	M Y11 0?0		188
1000	8	47	PMOV2	MCM	2&X3	C	4	1258	P 0?2		188
1001	8	48		MN		C	1	1262	D		188
1002	8	49		MN		C	1	1263	D		189
1003	8	50		SAR	XL3	C	4	1264	Q 099		189
1004	8	51		BCE	PMOV2, 1&X3,	C	8	1268	B S58 0?1		189
1005	8	52		BCE	NUTYP, 0&X3,	C	8	1276	B  63 0?0		189
1006	8	53		MCW	0&X3, XL3	C	7	1284	M 0?0 099		189
1007	8	54		B	PICK	C	4	1291	B /04		189
1008	8	55	PACK	BW	CERR, PAKSW	C	8	1295	V W88 Y07 1		190
1009	8	56		SW	PAKSW	C	4	1303	, Y07		190
1010	8	57		MCW	PARAM&2, XL2	C	7	1307	M 688 094		190
1011	8	58		MN	0&X2	C	4	1314	D 0!0		190
1012	8	59		SAR	XL2	C	4	1318	Q 094		190
1013	8	60		MCW	XL2, XL3	C	7	1322	M 094 099		190
1014	8	61	LOOP1	LCA	0&X2, 0&X3	C	7	1329	L 0!0 0?0		191
1015	8	62		SAR	XL2	C	4	1336	Q 094		191
1016	8	63		MCW	0&X3, WORK9#9	C	7	1340	M 0?0 Y20		191
1017	8	64		BCE	DONE, WORK9-6, #	C	8	1347	B T66 Y14 #		191
1018	8	65		LCA	0&X3, 0&X3	C	7	1355	L 0?0 0?0		191
1019	8	66		SAR	XL3	C	4	1362	Q 099		191
1020	8	67	DONE	C	PICK&6, XL2	C	7	1366	C /10 094		192
1021	8	68		BU	LOOP1	C	5	1373	B T29 /		192
1022	8	69		MCW	XL3, PICK&6	C	7	1378	M 099 /10		192
1023	8	70		MCW	XL3, XL2	C	7	1385	M 099 094		192
1024	8	71		MZ	XL3, ALL92	C	7	1392	Y 099 Y05		192
1025	8	72		MZ		C	1	1399	Y		192
1026	8	73		MCW		C	1	1400	M		192
1027	8	74		MZ	XL1, ALL9	C	7	1401	Y 089 Y02		193
1028	8	75		MZ		C	1	1408	Y		193
1029	8	76		MCW		C	1	1409	M		193
1030	8	77		C	ALL9, ALL92	C	7	1410	C Y02 Y05		193
1031	8	78		BE	ZADD	C	5	1417	B U42 S		193
1032	8	79	CLEER	CS	0&X3	C	4	1422	/ 0?0		193
1033	8	80		SBR	XL3	C	4	1426	H 099		193
1034	8	81		C	XL3, ALL9	C	7	1430	C 099 Y02		194
1035	8	82		BU	CLEER	C	5	1437	B U22 /		194
1036	8	83	ZADD	ZA	&39, SAVE3	C	7	1442	? Y22 !03		194
1037	8	84		S	XL3&1	C	4	1449	S 100		194
1038	8	85	MUVE	MCW	BLNK3#3, TABLE&2&X3	C	7	1453	M Y25 8D0		194
1039	8	86		S	&1, SAVE3	C	7	1460	S Y26 !03		194
1040	8	87		BM	EXIT, SAVE3	C	8	1467	V U86 !03 K		195
1041	8	88		A	&3, XL3	C	7	1475	A Y27 099		195

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1042	8	89		B	MUVE	C	4	1482	B U53		195
1043	8	90	EXIT	MCM	1&X2	C	4	1486	P 0!1		195
1044	8	91		MN		C	1	1490	D		195
1045	8	92		SAR	XL2	C	4	1491	Q 094		195
1046	8	93		BCE	EXIT,0&X2,	C	8	1495	B U86 0!0		195
1047	8	94		SBR	XL2,1&X2	C	7	1503	H 094 0!1		196
1048	8	95		S	XL3&1	C	4	1510	S 100		196
1049	8	96		C	0&X2	C	4	1514	C 0!0		196
1050	8	97		SAR	*&4	C	4	1518	Q V25		196
1051	8	98		MCW	0,WORK9	C	7	1522	M 000 Y20		196
1052	8	99		MN	WORK9-6,XL3	C	7	1529	D Y14 099		196
1053	9	00		MCW	XL3,SAVE3	C	7	1536	M 099 !03		197
1054	9	01		A	XL3	C	4	1543	A 099		197
1055	9	02		A	SAVE3,XL3	C	7	1547	A !03 099		197
1056	9	03		BWZ	CNT,WORK9-6,2	C	8	1554	V V99 Y14 2		197
1057	9	04		A	&30,XL3	C	7	1562	A Y29 099		197
1058	9	05		BWZ	CNT,WORK9-6,S	C	8	1569	V V99 Y14 S		198
1059	9	06		A	&30,XL3	C	7	1577	A Y29 099		198
1060	9	07		BWZ	CNT,WORK9-6,K	C	8	1584	V V99 Y14 K		198
1061	9	08		A	&30,XL3	C	7	1592	A Y29 099		198
1062	9	09	CNT	MN	0&X2	C	4	1599	D 0!0		198
1063	9	10		MN		C	1	1603	D		198
1064	9	11		MCW	TABLE&2&X3	C	4	1604	M 8D0		198
1065	9	12		C	0&X2	C	4	1608	C 0!0		199
1066	9	13		SAR	TABLE&2&X3	C	4	1612	Q 8D0		199
1067	9	14		C	XL2,PARAM&2	C	7	1616	C 094 688		199
1068	9	15		BU	EXIT	C	5	1623	B U86 /		199
1069	9	16		MCW	TBEGIN,XL3	C	7	1628	M Y10 099		199
1070	9	17		NOP	3&X3	C	4	1635	N 0?3		199
1071	9	18		SAR	TBEGIN	C	4	1639	Q Y10		199
1072	9	19		B	NUTYP	C	4	1643	B  63		200
1073	9	20	EOJ	FENDX	C,GM,,XBEGIN,XBEGIN,XBEGIN,SAVE3,GROUP MARK	C				MACRO	
1074			EOJ	BSS	333,C	C	5	1647	B 333 C	GEN	200
1075				SBR	INITAP&6,XBEGIN	C	7	1652	H 786 838	GEN	200
1076				SBR	BCLEAR	C	4	1659	H 833	GEN	200
1077				SBR	INITXT&3,XBEGIN	C	7	1663	H 796 838	GEN	200
1078				SBR	TCLEAR,SAVE3	C	7	1670	H 710 !03	GEN	200
1079				LCA	@GROUP MARK@,110	C	7	1677	L Y39 110	GEN	201
1080				B	MONTER	C	4	1684	B 700	GEN	201
1081	9	21	CERR	FQUIT		C				MACRO	
1082			CERR	CS	332	C	4	1688	/ 332	GEN	201
1083				CS		C	1	1692	/	GEN	201
1084				CC	1	C	2	1693	F 1	GEN	201
1085				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	C	7	1695	M Y75 270	GEN	201
1086				W		C	1	1702	2	GEN	201
1087				CC	1	C	2	1703	F 1	GEN	202
1088				BCE	*&6,MONTOR,1	C	8	1705	B X18 769 1	GEN	202
1089				RWD	1	C	5	1713	U %U1 R	GEN	202
1090				H	*-3	C	4	1718	. X18	GEN	202
1091	9	22		DCW	@XXX@	C	3	1724			202

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1092	9	23		DCW	117	I	3	1727			202
1093	9	24		DCW	084	Q	3	1730			202
1094	9	25		DCW	108	F	3	1733			203
1095	9	26		DCW	009	3	3	1736			203
1096	9	27		DCW	003	1	3	1739			203
1097	9	28		DCW	018	6	3	1742			203
1098	9	29		DCW	081	P	3	1745			203
1099	9	30		DCW	042	U	3	1748			203
1100	9	31		DCW	015	5	3	1751			203
1101	9	32		DCW	069	L	3	1754			204
1102	9	33		DCW	087	R	3	1757			204
1103	9	34		DCW	105	E	3	1760			204
1104	9	35		DCW	027	9	3	1763			204
1105	9	36		DCW	096	B	3	1766			204
1106	9	37		DCW	057	Z	3	1769			204
1107	9	38		DCW	075	N	3	1772			204
1108	9	39		DCW	039	T	3	1775			205
1109	9	40		DCW	111	G	3	1778			205
1110	9	41		DCW	036	S	3	1781			205
1111	9	42		DCW	093	A	3	1784			205
1112	9	43		DCW	063	J	3	1787			205
1113	9	44		DCW	066	K	3	1790			205
1114	9	45		DCW	048	W	3	1793			205
1115	9	46		DCW	099	C	3	1796			206
1116	9	47	LIST	DCW	102	D	3	1799			206
1117	9	48	ALL9	DCW	999		3	1802			206
1118	9	49	ALL92	DCW	999		3	1805			206
1119	9	50	GM	DC	@} @	GROUP MARK	1	1806		GMARK	206
1120	9	51	PAKSW	DC	0		1	1807			206
1121	9	52		LTORG	*				1808		
			TBEGIN	DCW	#03		3	1810		AREA	206
				DCW	@##		1	1811		LIT	206
			WORK9C	DCW	#09		9	1820		AREA	206
				DCW	&39		2	1822		LIT	207
			BLNK3C	DCW	#03		3	1825		AREA	207
				DCW	&1		1	1826		LIT	207
				DCW	&3		1	1827		LIT	207
				DCW	&30		2	1829		LIT	207
				DCW	@GROUP MARK@		10	1839		LIT	207
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@		36	1875		LIT	208
1122	9	53		ORG	EOTWO&1				2001		
1123	9	54	SAVE3	DCW	#3		3	2003			209
1124	9	55		ORG	ORGVBI&X00	VARBL ONE LONGEST			2900		
1125	9	56	END	EQU	*&1			2900			
1126	9	57		DCW	@} @	SYSTEM GROUP MARK	1	2900		GMARK	210
1127	9	58		XFR	AGAIN				B   22		211

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1128	9	59		JOB	1401 FORTRAN INSERT GROUP PHASE	C					
1129	9	60		FBEGN	GROUP MARK,X1,R,X2,R,,D	C				MACRO	
1130				SFX	D	D				GEN	
1131			110	DCW	@GROUP MARK@	D	10	0110		GEN	214
1132			X1	EQU	089	D		0089		GEN	
1133			089	DCW	000	D	3	0089		GEN	215
1134			091	DC	00	D	2	0091		GEN	215
1135			X2	EQU	094	D		0094		GEN	
1136			094	DCW	000	D	3	0094		GEN	215
1137			096	DC	00	D	2	0096		GEN	215
1138	9	61		ORG	XBEGIN	D			0838		
1139	9	62	START	MCW	083,X1	D	7	0838	M 083 089		216
1140	9	63		SW	GM	D	4	0845	,  91		216
1141	9	64	LOOP1	BCE	RPLCE,0&X1,: 5-8	D	8	0849	B 881 0 0 :		216
1142	9	65	BTEST	BCE	EOJ,0&X1, BLANK	D	8	0857	B 949 0 0		216
1143	9	66		BCE	CKFMT,0&X1,} GROUP MARK	D	8	0865	B 904 0 0 } GMARK		216
1144	9	67		SBR	X1	D	4	0873	H 089		216
1145	9	68		B	LOOP1	D	4	0877	B 849		217
1146	9	69	RPLCE	LCA	GM, 0&X1 INSERT GM/WM	D	7	0881	L  91 0 0		217
1147	9	70		SBR	X1	D	4	0888	H 089		217
1148	9	71		C	0&X1	D	4	0892	C 0 0		217
1149	9	72		SAR	X1	D	4	0896	Q 089		217
1150	9	73		B	LOOP1	D	4	0900	B 849		217
1151	9	74	CKFMT	MCW	0&X1,HOLD5#5	D	7	0904	M 0 0  96		217
1152	9	75		BCE	ISFMT,HOLD5-4,F	D	8	0911	B 938  92 F		218
1153	9	76		MCW	@B@,BTEST	D	7	0919	M  97 857		218
1154	9	77	BUMP	MN	0&X1	D	4	0926	D 0 0		218
1155	9	78		SBR	X1	D	4	0930	H 089		218
1156	9	79		B	LOOP1	D	4	0934	B 849		218
1157	9	80	ISFMT	MCW	@N@,BTEST	D	7	0938	M  98 857		218
1158	9	81		B	BUMP	D	4	0945	B 926		218
1159	9	82	EOJ	MCW	PARAM&2,X2	D	7	0949	M 688 094		219
1160	9	83		MZ	083,ALL9	D	7	0956	Y 083  90		219
1161	9	84		MZ		D	1	0963	Y		219
1162	9	85		MCW		D	1	0964	M		219
1163	9	86	CLEAR	CS	0&X2	D	4	0965	/ 0!0		219
1164	9	87		SBR	X2	D	4	0969	H 094		219
1165	9	88		C	X2,ALL9	D	7	0973	C 094  90		219
1166	9	89		BU	CLEAR	D	5	0980	B 965 /		220
1167	9	90	CMPAR	C	083,X2	D	7	0985	C 083 094		220
1168	9	91		BE	FXPRM	D	5	0992	B  16 S		220
1169	9	92		MCW	BLANK#1,0&X2	D	7	0997	M  99 0!0		220
1170	9	93		CW	0&X2	D	4	1004	) 0!0		220
1171	9	94		SBR	X2	D	4	1008	H 094		220
1172	9	95		B	CMPAR	D	4	1012	B 985		220
1173	9	96	FXPRM	SW	PARAM&3	D	4	1016	, 689		221
1174	9	97		A	BLANK,PARAM&6	D	7	1020	A  99 692		221
1175	9	98		C	PARAM&4,@00@	D	7	1027	C 690 /01		221
1176	9	99		BU	*&8	D	5	1034	B  46 /		221
1177	10	00		MCW	@05@,PARAM&4	D	7	1039	M /03 690		221

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1178	10	01		C	PARAM&6,@00@	D	7	1046	C 692 /01		221
1179	10	02		BU	EOPHS	D	5	1053	B  65 /		222
1180	10	03		MCW	@08@,PARAM&6	D	7	1058	M /05 692		222
1181	10	04	EOPHS	FENDX	C,GM,,,,SYS1,SQUOZE	D				MACRO	
1182			EOPHS	BSS	333,C	D	5	1065	B 333 C	GEN	222
1183				SBR	TCLEAR,SYS1	D	7	1070	H 710 /12	GEN	222
1184				LCA	@SQUOZE@,110	D	7	1077	L /11 110	GEN	222
1185				B	MONTER	D	4	1084	B 700	GEN	222
1186	10	05	ALL9	DCW	999	D	3	1090			222
1187	10	06	GM	DC	@}@	D	1	1091		GMARK	222
1188	10	07		LTORG	*	D			1092		
			HOLD5D	DCW	#05	D	5	1096		AREA	223
				DCW	@B@	D	1	1097		LIT	223
				DCW	@N@	D	1	1098		LIT	223
			BLANKD	DCW	#01	D	1	1099		AREA	223
				DCW	@00@	D	2	1101		LIT	223
				DCW	@05@	D	2	1103		LIT	223
				DCW	@08@	D	2	1105		LIT	223
				DCW	@SQUOZE@	D	6	1111		LIT	224
1189	10	08	SYS1	DCW	@}@	D	1	1112		GMARK	224
1190	10	09		XFR	START	D			B 838		225

GROUP MARK

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1191	10	10		JOB	1401 FORTRAN SQUOZE PHASE	D					
1192	10	11		FBEGN	SQUOZE,XL1,R,XL2,R,XL3,R,E,XXXX	D				MACRO	
1193				SFX	E	E				GEN	
1194			XXXX	EQU	0	E		0000		GEN	
1195			110	DCW	@SQUOZE@	E	6	0110		GEN	228
1196			XL1	EQU	089	E		0089		GEN	
1197			089	DCW	000	E	3	0089		GEN	229
1198			091	DC	00	E	2	0091		GEN	229
1199			XL2	EQU	094	E		0094		GEN	
1200			094	DCW	000	E	3	0094		GEN	229
1201			096	DC	00	E	2	0096		GEN	229
1202			XL3	EQU	099	E		0099		GEN	
1203			099	DCW	000	E	3	0099		GEN	229
1204			100	DC	0	E	1	0100		GEN	229
1205	10	12	X1	EQU	XL1	E		0089			
1206	10	13	X2	EQU	XL2	E		0094			
1207	10	14	STLOC	EQU	083	E		0083			
1208	10	15		ORG	XBEGIN	E			0838		
1209	10	16	BEGIN	MCW	STLOC,XL2	E	7	0838	M 083 094		230
1210	10	17		MCW	STLOC,XL1	E	7	0845	M 083 089		230
1211	10	18	NUSTM	MCW	0&X1,STMNO#3	E	7	0852	M 0 0 U94		230
1212	10	19		MCW	0&X1,HOLD4#4	E	7	0859	M 0 0 U98		230
1213	10	20		BCE	ARITH,HOLD4-3,R	E	8	0866	B /56 U95 R		230
1214	10	21		BCE	ENDCD,HOLD4-3,/	E	8	0874	B /82 U95 /		231
1215	10	22	BYP	BCE	LOD,HOLD4-3,X	E	8	0882	B 991 U95 X		231
1216	10	23		MZ	HOLD4-3,BYP&7	E	7	0890	Y U95 889		231
1217	10	24		MN	HOLD4-3,BYP&7	E	7	0897	D U95 889		231
1218	10	25		MN	HOLD4-3,HOLD1#1	E	7	0904	D U95 U99		231
1219	10	26		ZA	HOLD1,HOLD3#3	E	7	0911	? U99 V02		232
1220	10	27		A	HOLD3	E	4	0918	A V02		232
1221	10	28		A	HOLD1,HOLD3	E	7	0922	A U99 V02		232
1222	10	29		MZ	BLANK#1,HOLD3	E	7	0929	Y V03 V02		232
1223	10	30		LCA	&TABLE-3,RTREV&3	E	7	0936	L V06 979		232
1224	10	31		A	HOLD3,RTREV&3	E	7	0943	A V02 979		232
1225	10	32		MZ	HOLD4-3,RTREV&2	E	7	0950	Y U95 978		233
1226	10	33		CW	RTREV&1	E	4	0957	) 977		233
1227	10	34		MCW	XL2,HOLDX#8	E	7	0961	M 094 V14		233
1228	10	35		MCW		E	1	0968	M		233
1229	10	36		MCM	DATA,XL1-2	E	7	0969	P U78 087		233
1230	10	37	RTREV	MCW	XXXX,XL3	E	7	0976	M 000 099		233
1231	10	38		MCW	HOLDX,XL2	E	7	0983	M V14 094		234
1232	10	39		MCW		E	1	0990	M		234
1233	10	40	LOD	MVDWN	X1,X2	E				MACRO	
1234			LOD	LCA	0&X1,0&X2	E	7	0991	L 0 0 0!0	GEN	234
1235				SAR	X1	E	4	0998	Q 089	GEN	234
1236				C	0&X2	E	4	1002	C 0!0	GEN	234
1237				SAR	X2	E	4	1006	Q 094	GEN	234
1238	10	41		C	0&X1,0&X3	E	7	1010	C 0 0 0?0		234
1239	10	42		SAR	XL1	E	4	1017	Q 089		235
1240	10	43		BU	ERROR	E	5	1021	B  92 /		235

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1241	10	44	SHIFT	MVDWN	X1,X2	E				MACRO	
1242			SHIFT	LCA	0&X1,0&X2	E	7	1026	L 0 0 0!0	GEN	235
1243				SAR	X1	E	4	1033	Q 089	GEN	235
1244				C	0&X2	E	4	1037	C 0!0	GEN	235
1245				SAR	X2	E	4	1041	Q 094	GEN	235
1246	10	45	CKDON	BCE	DONE,0&X1,	E	8	1045	B  57 0 0		235
1247	10	46		B	NUSTM	E	4	1053	B 852		236
1248	10	47	DONE	CS	0&X2	E	4	1057	/ 0!0		236
1249	10	48		CS		E	1	1061	/		236
1250	10	49		FENDX	C,,,,INITLF,,SYS1,DIMEN1	E				MACRO	
1251				BSS	333,C	E	5	1062	B 333 C	GEN	236
1252				SBR	INITXT&3,INITLF	E	7	1067	H 796 839	GEN	236
1253				SBR	TCLEAR,SYS1	E	7	1074	H 710 V67	GEN	236
1254				LCA	@DIMEN1@,110	E	7	1081	L V20 110	GEN	236
1255				B	MONTER	E	4	1088	B 700	GEN	237
1256	10	50	ERROR	FTMSG	1,UNDETERMINABLE STATEMENT,STMNO,25	E				MACRO	
1257			ERROR	CS	332	E	4	1092	/ 332	GEN	237
1258				CS		E	1	1096	/	GEN	237
1259				SW	FAILSW	E	4	1097	, 184	GEN	237
1260				MN	STMNO,224&25	E	7	1101	D U94 249	GEN	237
1261				MN		E	1	1108	D	GEN	237
1262				MN		E	1	1109	D	GEN	237
1263				MCW	@ERROR 1 - UNDETERMINABLE STATEMENT, STATEMENT @	E	4	1110	M V66	GEN	238
1264				W		E	1	1114	2	GEN	238
1265				BCV	*&5	E	5	1115	B /24 @	GEN	238
1266				B	*&3	E	4	1120	B /26	GEN	238
1267				CC	1	E	2	1124	F 1	GEN	238
1268	10	51	PMOV3	MCM	2&X2	E	4	1126	P 0!2		238
1269	10	52		MN		E	1	1130	D		238
1270	10	53		MN		E	1	1131	D		239
1271	10	54		SAR	XL2	E	4	1132	Q 094		239
1272	10	55		BCE	PMOV3,1&X2,	E	8	1136	B /26 0!1		239
1273	10	56		C	0&X1	E	4	1144	C 0 0		239
1274	10	57		SAR	XL1	E	4	1148	Q 089		239
1275	10	58		B	CKDON	E	4	1152	B  45		239
1276	10	59	ARITH	LCA	0&X1,0&X2	E	7	1156	L 0 0 0!0		239
1277	10	60		SAR	XL1	E	4	1163	Q 089		240
1278	10	61		LCA	0&X2,0&X2	E	7	1167	L 0!0 0!0		240
1279	10	62		SBR	XL2	E	4	1174	H 094		240
1280	10	63		B	SHIFT	E	4	1178	B  26		240
1281	10	64	ENDCD	C	0&X1	E	4	1182	C 0 0		240
1282	10	65		C		E	1	1186	C		240
1283	10	66		SAR	XL1	E	4	1187	Q 089		240
1284	10	67		B	CKDON	E	4	1191	B  45		241
1285	10	68	TABLE	DCW	RDTAP	E	3	1197	U03		241
1286	10	69		DCW	XXXX	E	3	1200	000		241
1287	10	70		DCW	WRTAP	E	3	1203	U12		241
1288	10	71		DCW	XXXX	E	3	1206	000		241
1289	10	72		DCW	RDITP	E	3	1209	T70		241
1290	10	73		DCW	WTOTP	E	3	1212	T95		241

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	
1291	10	74		DCW	XXXX		7		E	3	1215 000	242
1292	10	75		DCW	XXXX		8		E	3	1218 000	242
1293	10	76		DCW	BLANK		9	FUNCTION STATEMENTS	E	3	1221 V03	242
1294	10	77		DCW	XXXX		/		E	3	1224 000	242
1295	10	78		DCW	STOP		S	STOP	E	3	1227 T36	242
1296	10	79		DCW	CGOTO		T	COMPUTED GO TO	E	3	1230 T11	242
1297	10	80		DCW	PUNCH		U	PUNCH	E	3	1233 T75	242
1298	10	81		DCW	XXXX		V		E	3	1236 000	243
1299	10	82		DCW	IFSSW		W	IF SENSE SWITCH	E	3	1239 T27	243
1300	10	83		DCW	XXXX		X		E	3	1242 000	243
1301	10	84		DCW	XXXX		Y		E	3	1245 000	243
1302	10	85		DCW	RWD		Z	REWIND	E	3	1248 U25	243
1303	10	86		DCW	SENLT		J	SENSE LIGHT	E	3	1251 U77	243
1304	10	87		DCW	IFSL		K	IF SENSE LIGHT	E	3	1254 U67	243
1305	10	88		DCW	READ		L	READ	E	3	1257 T57	244
1306	10	89		DCW	XXXX		M		E	3	1260 000	244
1307	10	90		DCW	EOF		N	END OF FILE	E	3	1263 U19	244
1308	10	91		DCW	XXXX		O		E	3	1266 000	244
1309	10	92		DCW	PRINT		P	PRINT	E	3	1269 T80	244
1310	10	93		DCW	EQUIV		Q	EQUIVALENCE	E	3	1272 U54	244
1311	10	94		DCW	XXXX		R	ARITHMETIC	E	3	1275 000	244
1312	10	95		DCW	PAUSE		A	PAUSE	E	3	1278 T32	245
1313	10	96		DCW	BSP		B	BACKSPACE	E	3	1281 U34	245
1314	10	97		DCW	CNTU		C	CONTINUE	E	3	1284 T46	245
1315	10	98		DCW	DO		D	DO	E	3	1287 T38	245
1316	10	99		DCW	IF		E	IF	E	3	1290 T13	245
1317	11	00		DCW	FORMAT		F	FORMAT	E	3	1293 T53	245
1318	11	01		DCW	GOTO		G	GO TO	E	3	1296 T06	245
1319	11	02		DCW	XXXX		H		E	3	1299 000	246
1320	11	03		DCW	DMSN		I	DIMENSION	E	3	1302 U43	246
1321	11	04	GOTO	DCW	@OTOG@				E	4	1306	246
1322	11	05	CGOTO	DCW	@@OTOG@				E	5	1311	246
1323	11	06	IF	DCW	@FI@				E	2	1313	246
1324	11	07	IFSSW	DCW	@HCTIWSESNES%FI@				E	14	1327	246
1325	11	08	PAUSE	DCW	@ESUAP@				E	5	1332	246
1326	11	09	STOP	DCW	@POTS@				E	4	1336	247
1327	11	10	DO	DCW	@OD@				E	2	1338	247
1328	11	11	CNTU	DCW	@EUNITNOC@				E	8	1346	247
1329	11	12	FORMAT	DCW	@@TAMROF@				E	7	1353	247
1330	11	13	READ	DCW	@DAER@				E	4	1357	247
1331	11	14	RDITP	DCW	@EPATTUPNIDAER@				E	13	1370	247
1332	11	15	PUNCH	DCW	@HCNUP@				E	5	1375	248
1333	11	16	PRINT	DCW	@TNIRP@				E	5	1380	248
1334	11	17	WTOTP	DCW	@EPATTUPTUOETIRW@				E	15	1395	248
1335	11	18	RDTAP	DCW	@EPATDAER@				E	8	1403	248
1336	11	19	WRTAP	DCW	@EPATETIRW@				E	9	1412	249
1337	11	20	EOF	DCW	@ELIFDNE@				E	7	1419	249
1338	11	21	RWD	DCW	@DNIWER@				E	6	1425	249
1339	11	22	BSP	DCW	@ECAPSKCAB@				E	9	1434	249
1340	11	23	DMSN	DCW	@NOISNEMID@				E	9	1443	250



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1341	11	24	EQUIV	DCW	@ECNELAVIUQE@	E	11	1454			250
1342	11	25	IFSL	DCW	@THGILES NES%FI@	E	13	1467			250
1343	11	26	SENLT	DCW	@THGILES NES@	E	10	1477			251
1344	11	27	DATA	EQU	*&1	E		1478			
1345	11	28		DCW	@0270005400081 @	E	14	1491			251
1346	11	29		LTORG	*	E			1492		
			STMNOE	DCW	#03	E	3	1494		AREA	251
			HOLD4E	DCW	#04	E	4	1498		AREA	251
			HOLD1E	DCW	#01	E	1	1499		AREA	251
			HOLD3E	DCW	#03	E	3	1502		AREA	251
			BLANKE	DCW	#01	E	1	1503		AREA	251
				DCW	&TABLEE-3	E	3	1506	/94	ADCON	252
			HOLDXE	DCW	#08	E	8	1514		AREA	252
				DCW	@DIMEN1@	E	6	1520		LIT	252
				DCW	@ERROR 1 - UNDETERMINABLE STATEMENT, STATEMENT @	E	46	1566		LIT	254
1347	11	30	SYS1	DCW	@}@	E	1	1567		GMARK	254
1348	11	31		XFR	BEGIN	E			B 838		255
					SYSTEM GROUP MARK						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1349	11	32		JOB	1401 FORTRAN DIMENSION PHASE ONE	E					
1350	11	33		FBEGN	DIMEN 1,X1,,X2,R,X3,R,F	E				MACRO	
1351				SFX	F	F				GEN	
1352			110	DCW	@DIMEN 1@	F	7	0110		GEN	258
1353			X1	EQU	089	F		0089		GEN	
1354			X2	EQU	094	F		0094		GEN	
1355			094	DCW	000	F	3	0094		GEN	259
1356			096	DC	00	F	2	0096		GEN	259
1357			X3	EQU	099	F		0099		GEN	
1358			099	DCW	000	F	3	0099		GEN	259
1359			100	DC	0	F	1	0100		GEN	259
1360	11	34		ORG	XBEGIN	F			0838		
1361	11	35	COMPAT	DCW	0	F	1	0838			260
1362	11	36	INITL	SW	GM	F	4	0839	, W91		260
1363	11	37		MCW	83,X1	F	7	0843	M 083 089		260
1364	11	38		A	BLANK#1,PARAM&6	F	7	0850	A X01 692		260
1365	11	39		MCW	PARAM&6,HOLD#2	F	7	0857	M 692 X03		260
1366	11	40		A	&2,HOLD	F	7	0864	A X04 X03		260
1367	11	41		C	PARAM&4,HOLD	F	7	0871	C 690 X03		261
1368	11	42		BU	*&5	F	5	0878	B 887 /		261
1369	11	43		CW	COMPAT	F	4	0883	) 838		261
1370	11	44		LCA	GM,1&X1	F	7	0887	L W91 0 1		261
1371	11	45		LCA	PARAM&2,X2	F	7	0894	L 688 094		261
1372	11	46		MN	0000&X2	F	4	0901	D 0 0		261
1373	11	47		MN		F	1	0905	D		261
1374	11	48		MCW	@ @	F	4	0906	M X05		262
1375	11	49		SBR	X2	F	4	0910	H 094		262
1376	11	50	START	MCW	BLANK,001	F	7	0914	M X01 001		262
1377	11	51		MCW	@<@,2&X1	F	7	0921	M X06 0 2		262
1378	11	52		NOP	2&X1	F	4	0928	N 0 2		262
1379	11	53		SAR	START&6	F	4	0932	Q 920		262
1380	11	54		LCA	0&X1,WORK	F	7	0936	L 0 0 W90		262
1381	11	55		SAR	X1	F	4	0943	Q 089		263
1382	11	56		SBR	X3	F	4	0947	H 099		263
1383	11	57		BCE	CKNOD,WORK,	F	8	0951	B V45 W90		263
1384	11	58		BCE	DIMEN,WORK-3,I	F	8	0959	B 979 W87 I		263
1385	11	59		BCE	BYP,WORK-3,/	F	8	0967	B V33 W87 /		263
1386	11	60		B	CKNOD	F	4	0975	B V45		263
1387	11	61	DIMEN	BCE	NAME,000&X1,%	F	8	0979	B  19 0 0 %		264
1388	11	62		FBCEQ	SYNER,0&X1,,),}	F				MACRO	
1389				BCE	SYNER, 0&X1, ,	F	8	0987	B U84 0 0 ,	GEN	264
1390				BCE	SYNER, 0&X1, )	F	8	0995	B U84 0 0 )	GEN	264
1391				BCE	SYNER, 0&X1, }	F	8	1003	B U84 0 0 }	GEN	264
1392	11	63		SBR	X1	F	4	1011	H 089		264
1393	11	64		B	DIMEN	F	4	1015	B 979		265
1394	11	65	NAME	SW	DIMSW	F	4	1019	, X00		265
1395	11	66		MN	0&X1	F	4	1023	D 0 0		265
1396	11	67		SAR	X1	F	4	1027	Q 089		265
1397	11	68		SW	002&X1	F	4	1031	, 0 2		265
1398	11	69		MCW	X2,HEX2#3	F	7	1035	M 094 X09		265

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1399	11	70	*	TEST TO	SEE IF ARRAY WAS PREVIOUSLY DEFINED						
1400	11	71		BW	OK,DSW#1	F	8	1042	V /12 X10 1		265
1401	11	72	UNIQ	MCM	1&X2	F	4	1050	P 0!1		266
1402	11	73		SAR	X2	F	4	1054	Q 094		266
1403	11	74		BCE	OK,0&X2, BLANK	F	8	1058	B /12 0!0		266
1404	11	75	GET	MCM	2&X2	F	4	1066	P 0!2		266
1405	11	76		MN		F	1	1070	D		266
1406	11	77		MN		F	1	1071	D		266
1407	11	78		SBR	X2	F	4	1072	H 094		266
1408	11	79		BCE	GET,1&X2,	F	8	1076	B  66 0!1		267
1409	11	80	COMP	C	0&X2,0&X3 REST V. NEW	F	7	1084	C 0!0 0?0		267
1410	11	81		SAR	X2	F	4	1091	Q 094		267
1411	11	82		BU	UNIQ	F	5	1095	B  50 /		267
1412	11	83	*	CAN GET	EQUAL COMPARE IF A FIELD LONGER THAN B FIELD						
1413	11	84		BWZ	MULTY,1&X2,1	F	8	1100	V T56 0!1 1		267
1414	11	85		B	UNIQ	F	4	1108	B  50		267
1415	11	86	OK	MCW	HEX2,X2	F	7	1112	M X09 094		268
1416	11	87		LCA	GM,000&X2	F	7	1119	L W91 0!0		268
1417	11	88		LCA	000&X3	F	4	1126	L 0?0		268
1418	11	89		LCA	PRED	F	4	1130	L W94		268
1419	11	90		SBR	X2	F	4	1134	H 094		268
1420	11	91		MCW	PRED,X3 PRED INITIALLY BLANK	F	7	1138	M W94 099		268
1421	11	92		BCE	*&5,X3, BLANK	F	8	1145	B /57 099		269
1422	11	93		B	*&8	F	4	1153	B /64		269
1423	11	94		A	BLANK,X3	F	7	1157	A X01 099		269
1424	11	95		LCA	@ @,000&X2	F	7	1164	L X13 0!0		269
1425	11	96		LCA	@ @	F	4	1171	L X13		269
1426	11	97		SBR	006&X3	F	4	1175	H 0?6		269
1427	11	98		SBR	PRED	F	4	1179	H W94		269
1428	11	99		LCA	@ @	F	4	1183	L X18		270
1429	12	00		SBR	X2	F	4	1187	H 094		270
1430	12	01	RESET	FFLIP	0&X1,MN,X1,X3,,,,),}	F				MACRO	
1431			RESET	MN	MN	F	4	1191	D W95	GEN	270
1432				MN		F	1	1195	D	GEN	270
1433				SAR	X3	F	4	1196	Q 099	GEN	270
1434				SBR	X1, 0&X1	F	7	1200	H 089 0!0	GEN	270
1435			)0K028	MCW	0&X1,)0L028#1	F	7	1207	M 0!0 X19	GEN	270
1436				SAR	X1	F	4	1214	Q 089	GEN	271
1437				BCE	)0M028, )0L028, )	F	8	1218	B S57 X19 )	GEN	271
1438				BCE	)0M028, )0L028, }	F	8	1226	B S57 X19 }	GEN	271
1439				BCE	)0M028, )0L028, ,	F	8	1234	B S57 X19 ,	GEN	271
1440				MCW	)0L028, 2&X3	F	7	1242	M X19 0?2	GEN	271
1441				SBR	X3	F	4	1249	H 099	GEN	271
1442				B	)0K028	F	4	1253	B S07	GEN	272
1443			)0M028	EQU	*&1	F		1257		GEN	
1444	12	02		BCE	SYNER,1&X1,}	F	8	1257	B U84 0!1 }	GMARK	272
1445	12	03		LCA	001&X3,000&X2	F	7	1265	L 0?1 0!0		272
1446	12	04		SBR	X2	F	4	1272	H 094		272
1447	12	05		BCE	RESET,1&X1,,	F	8	1276	B /91 0!1 ,		272
1448	12	06		MCW	START&6,X3	F	7	1284	M 920 099		272

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1449	12	07		BCE	*&5,0&X3,< 12-6-8	F	8	1291	B T03 0?0 <		273
1450	12	08		B	FAIL	F	4	1299	B W46		273
1451	12	09		CW	DSW	F	4	1303	) X10		273
1452	12	10	CKGM	BCE	NEXT,0&X1,} 12-7-8	F	8	1307	B T44 0 0 } GMARK		273
1453	12	11		B	LAST CHAR OF DIMEN MIGHT BE ,	F	1	1315	B		273
1454	12	12		BCE	*&5,0&X1,,	F	8	1316	B T28 0 0 ,		273
1455	12	13		B	SYNER	F	4	1324	B U84		273
1456	12	14		MN	000&X1	F	4	1328	D 0 0		274
1457	12	15		SAR	X1	F	4	1332	Q 089		274
1458	12	16		SBR	X3	F	4	1336	H 099		274
1459	12	17		B	DIMEN	F	4	1340	B 979		274
1460	12	18	NEXT	C	0&X1	F	4	1344	C 0 0		274
1461	12	19		SAR	X1	F	4	1348	Q 089		274
1462	12	20		B	START	F	4	1352	B 914		274
1463	12	21	MULTY	CS	332	F	4	1356	/ 332		275
1464	12	22		CS		F	1	1360	/		275
1465	12	23		SW	FAILSW	F	4	1361	, 184		275
1466	12	24		MCW	@ERROR 2 - DOUBLY DEFINED ARRAY@,230	F	7	1365	M X49 230		275
1467	12	25		MCW	COMP&6,X2	F	7	1372	M  90 094		275
1468	12	26		FFLIP	0&X3,232,X3,X2,INCL,WM	F				MACRO	
1469				MN	232	F	4	1379	D 232	GEN	275
1470				MN		F	1	1383	D	GEN	275
1471				SAR	X2	F	4	1384	Q 094	GEN	276
1472				SBR	X3, 0&X3	F	7	1388	H 099 0?0	GEN	276
1473			)0K029	MCW	0&X3,)0L029#1	F	7	1395	M 0?0 X50	GEN	276
1474				SAR	X3	F	4	1402	Q 099	GEN	276
1475				MCW	)0L029, 2&X2	F	7	1406	M X50 0!2	GEN	276
1476				SBR	X2	F	4	1413	H 094	GEN	276
1477				BW	)0M029, 1&X3	F	8	1417	V U29 0?1 1	GEN	277
1478				B	)0K029	F	4	1425	B T95	GEN	277
1479			)0M029	EQU	*&1	F		1429		GEN	
1480	12	27		W		F	1	1429	2		277
1481	12	28		FORMS		F				MACRO	
1482				BCV	*&5	F	5	1430	B U39 @	GEN	277
1483				B	*&3	F	4	1435	B U41	GEN	277
1484				CC	1	F	2	1439	F 1	GEN	277
1485	12	29	LOZSC	BCE	CTUL,0&X1,)	F	8	1441	B U65 0 0 )		277
1486	12	30		SBR	X1	F	4	1449	H 089		278
1487	12	31		BCE	SYNER,1&X1,} 12-7-8	F	8	1453	B U84 0 1 } GMARK		278
1488	12	32		B	LOZSC	F	4	1461	B U41		278
1489	12	33	CTUL	MN	0&X1	F	4	1465	D 0 0		278
1490	12	34		SAR	X1	F	4	1469	Q 089		278
1491	12	35		MCW	HEX2,X2	F	7	1473	M X09 094		278
1492	12	36		B	CKGM	F	4	1480	B T07		278
1493	12	37	SYNER	FTMSG	3,DIMENSION SYNTAX,WORK,17	F				MACRO	
1494			SYNER	CS	332	F	4	1484	/ 332	GEN	279
1495				CS		F	1	1488	/	GEN	279
1496				SW	FAILSW	F	4	1489	, 184	GEN	279
1497				MN	WORK,224&17	F	7	1493	D W90 241	GEN	279
1498				MN		F	1	1500	D	GEN	279

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1499				MN		F	1	1501	D	GEN	279
1500				MCW	@ERROR 3 - DIMENSION SYNTAX, STATEMENT @	F	4	1502	M X88	GEN	279
1501				W		F	1	1506	2	GEN	280
1502				BCV	*&5	F	5	1507	B V16 @	GEN	280
1503				B	*&3	F	4	1512	B V18	GEN	280
1504				CC	1	F	2	1516	F 1	GEN	280
1505	12	38		MCW	HEX2,X2	F	7	1518	M X09 094		280
1506	12	39		BCE	START,1&X1,}	F	8	1525	B 914 0 1 }	GMARK	280
1507	12	40	BYP	C	0&X1	F	4	1533	C 0 0		280
1508	12	41		SAR	X1	F	4	1537	Q 089		281
1509	12	42		B	START	F	4	1541	B 914		281
1510	12	43	CKNOD	BW	OUT,DIMSW	F	8	1545	V V88 X00 1		281
1511	12	44		LCA	GM,0&X2	F	7	1553	L W91 0!0		281
1512	12	45		LCA	@:@	F	4	1560	L X89		281
1513	12	46		LCA	BLNK3#3	F	4	1564	L X92		281
1514	12	47		LCA	BLNK3	F	4	1568	L X92		281
1515	12	48		LCA	BLNK3	F	4	1572	L X92		282
1516	12	49		LCA	BLANK5#5	F	4	1576	L X97		282
1517	12	50		LCA	@10@	F	4	1580	L X99		282
1518	12	51		SBR	X2	F	4	1584	H 094		282
1519	12	52	OUT	NOP	002&X1	F	4	1588	N 0 2		282
1520	12	53		MCM		F	1	1592	P		282
1521	12	54		MCW		F	1	1593	M		282
1522	12	55		SAR	X1	F	4	1594	Q 089		283
1523	12	56		MCW	006,086	F	7	1598	M 006 086		283
1524	12	57		FENDX	C,GM,,XBEGIN&1,INITLG,XBEGIN&1,SYS1,EQUIV ONE	F				MACRO	
1525				BSS	333,C	F	5	1605	B 333 C	GEN	283
1526				SBR	INITAP&6,XBEGIN&1	F	7	1610	H 786 839	GEN	283
1527				SBR	BCLEAR	F	4	1617	H 833	GEN	283
1528				SBR	INITXT&3,INITLG	F	7	1621	H 796  34	GEN	283
1529				SBR	TCLEAR,SYS1	F	7	1628	H 710 Y45	GEN	284
1530				LCA	@EQUIV ONE@,110	F	7	1635	L Y08 110	GEN	284
1531				B	MONTER	F	4	1642	B 700	GEN	284
1532	12	58	FAIL	FQUIT		F				MACRO	
1533			FAIL	CS	332	F	4	1646	/ 332	GEN	284
1534				CS		F	1	1650	/	GEN	284
1535				CC	1	F	2	1651	F 1	GEN	284
1536				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	F	7	1653	M Y44 270	GEN	284
1537				W		F	1	1660	2	GEN	285
1538				CC	1	F	2	1661	F 1	GEN	285
1539				BCE	*&6,MONTOR,1	F	8	1663	B W76 769 1	GEN	285
1540				RWD	1	F	5	1671	U %U1 R	GEN	285
1541				H	*-3	F	4	1676	. W76	GEN	285
1542	12	59		DCW	0	F	1	1680			285
1543	12	60	WORK	DCW	#10	F	10	1690			285
1544	12	61	GM	DC	@}@	F	1	1691		GMARK	285
1545	12	62	PRED	DCW	#3	F	3	1694			286
1546	12	63	MN	DCW	#1	F	1	1695			286
1547	21	64		DC	#4	F	4	1699			286
1548	12	65	DIMSW	DC	#1	F	1	1700			286

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1549	12	66		LTORG	*	F			1701		
			BLANKF	DCW	#01	F	1	1701		AREA	286
			HOLD F	DCW	#02	F	2	1703		AREA	286
				DCW	&2	F	1	1704		LIT	286
				DCW	@ @	F	1	1705		LIT	286
				DCW	@<@	F	1	1706		LIT	286
			HEX2 F	DCW	#03	F	3	1709		AREA	287
			DSW F	DCW	#01	F	1	1710		AREA	287
				DCW	@ @	F	3	1713		LIT	287
				DCW	@ @	F	5	1718		LIT	287
			)0L028	DCW	#01	F	1	1719		AREA	287
				DCW	@ERROR 2 - DOUBLY DEFINED ARRAY@	F	30	1749		LIT	288
			)0L029	DCW	#01	F	1	1750		AREA	288
				DCW	@ERROR 3 - DIMENSION SYNTAX, STATEMENT @	F	38	1788		LIT	289
				DCW	@:@	F	1	1789		LIT	289
			BLNK3F	DCW	#03	F	3	1792		AREA	290
			BLANK5	DCW	#05	F	5	1797		AREA	290
				DCW	@10@	F	2	1799		LIT	290
				DCW	@EQUIV ONE@	F	9	1808		LIT	290
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	F	36	1844		LIT	291
1550	12	67	SYS1	DCW	@}@	F	1	1845		GMARK	291
1551	12	68		XFR	INITL	F			B 839		292

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1552	12	69		JOB	1401 FORTRAN EQUIVALENCE PHASE ONE	F					
1553	12	70		FBEGN	EQUIV ONE,X1,,X2,,X3,R,G	F				MACRO	
1554				SFX	G	G				GEN	
1555			110	DCW	@EQUIV ONE@	G	9	0110		GEN	295
1556			X1	EQU	089	G		0089		GEN	
1557			X2	EQU	094	G		0094		GEN	
1558			X3	EQU	099	G		0099		GEN	
1559			099	DCW	000	G	3	0099		GEN	296
1560			100	DC	0	G	1	0100		GEN	296
1561	12	71		ORG	XBEGIN&1	G			0839		
1562	12	72	FIRST	EQU	086	G		0086			
1563	12	73	GM	DC	@}@	G	1	0839		GMARK	297
1564	12	74	WORK	DC	#10	G	10	0849			297
1565	12	75	DRESS	DCW	#3	G	3	0852			297
1566	12	76	CHAMP	DCW	#5	G	5	0857			297
1567	12	77		DC	#3	G	3	0860			297
1568	12	78	TALLY	DCW	#5	G	5	0865			297
1569	12	79		DC	#3	G	3	0868			297
1570	12	80	ACCUM	DCW	#5	G	5	0873			297
1571	12	81	HEX3	DC	#3	G	3	0876			297
1572	12	82		DC	#1	G	1	0877			297
1573	12	83	SPACE	DCW	#1	G	1	0878			298
1574	12	84		DC	#4	G	4	0882			298
1575	12	85	SYNER	FTMSG	4,EQUIVALENCE SYNTAX,WORK,19	G				MACRO	
1576			SYNER	CS	332	G	4	0883	/ 332	GEN	298
1577				CS		G	1	0887	/	GEN	298
1578				SW	FAILSW	G	4	0888	, 184	GEN	298
1579				MN	WORK,224&19	G	7	0892	D 849 243	GEN	298
1580				MN		G	1	0899	D	GEN	298
1581				MN		G	1	0900	D	GEN	298
1582				MCW	@ERROR 4 - EQUIVALENCE SYNTAX, STATEMENT @	G	4	0901	M Y21	GEN	299
1583				W		G	1	0905	2	GEN	299
1584				BCV	*&5	G	5	0906	B 915 @	GEN	299
1585				B	*&3	G	4	0911	B 917	GEN	299
1586				CC	1	G	2	0915	F 1	GEN	299
1587	12	86		C	0&X1	G	4	0917	C 0 0		299
1588	12	87		SAR	X1	G	4	0921	Q 089		299
1589	12	88		B	START	G	4	0925	B /15		300
1590	12	89	LOOP	FBCEQ	NAME,0&X1,,%,)	G				MACRO	
1591			LOOP	BCE	NAME, 0&X1, ,	G	8	0929	B 969 0 0 ,	GEN	300
1592				BCE	NAME, 0&X1, %	G	8	0937	B 969 0 0 %	GEN	300
1593				BCE	NAME, 0&X1, )	G	8	0945	B 969 0 0 )	GEN	300
1594	12	90		BCE	SYNER,0&X1,}	G	8	0953	B 883 0 0 }	GMARK	300
1595	12	91		SBR	X1	G	4	0961	H 089		301
1596	12	92		B	LOOP	G	4	0965	B 929		301
1597	12	93	NAME	SW	001&X1	G	4	0969	, 0 1		301
1598	12	94		MCW	DRESS,X2	G	7	0973	M 852 094		301
1599	12	95	FIND	BCE	CKSIM,2&X2, BLANK	G	8	0980	B S74 0!2		301
1600	12	96	GET	MCM	2&X2	G	4	0988	P 0!2		301
1601	12	97		MN		G	1	0992	D		301

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1602	12	98		MN		G	1	0993	D		302
1603	12	99		SAR	X2	G	4	0994	Q 094		302
1604	13	00		BCE	GET,1&X2,	G	8	0998	B 988 0!1		302
1605	13	01	COMP	C	000,000&X2	G	7	1006	C 000 0!0		302
1606	13	02		SAR	X3	G	4	1013	Q 099		302
1607	13	03		BU	FIND	G	5	1017	B 980 /		302
1608	13	04	A3	BWZ	ISIN,1&X3,1	G	8	1022	V W73 0?1 1		302
1609	13	05		B	FIND	G	4	1030	B 980		303
1610	13	06	INITL	MN	000&X2	G	4	1034	D 0!0		303
1611	13	07		SAR	DRESS	G	4	1038	Q 852		303
1612	13	08		SBR	HEX3	G	4	1042	H 876		303
1613	13	09		SW	GM	G	4	1046	, 839		303
1614	13	10		BW	*&8,COMPAT	G	8	1050	V  65 838 1		303
1615	13	11		MCW	@B@,CMPSW	G	7	1058	M Y22 /77		303
1616	13	12		MCW	X1,SAVE1	G	7	1065	M 089 Z68		304
1617	13	13		MCW	@<@,2&X1	G	7	1072	M Y23 0 2		304
1618	13	14		SBR	KLOBR&6,2&X1	G	7	1079	H T99 0 2		304
1619	13	15	GET2	MCM	2&X2	G	4	1086	P 0!2		304
1620	13	16		MN		G	1	1090	D		304
1621	13	17		MN		G	1	1091	D		304
1622	13	18		SAR	X2	G	4	1092	Q 094		304
1623	13	19		BCE	GET2,1&X2,	G	8	1096	B  86 0!1		305
1624	13	20		C	0&X2	G	4	1104	C 0!0		305
1625	13	21		CHAIN	3	G				MACRO	
1626				C		G	1	1108	C	GEN	305
1627				C		G	1	1109	C	GEN	305
1628				C		G	1	1110	C	GEN	305
1629	13	22		SAR	PRED#3	G	4	1111	Q Y26		305
1630	13	23	START	LCA	000&X1,WORK	G	7	1115	L 0 0 849		305
1631	13	24		SAR	X1	G	4	1122	Q 089		306
1632	13	25	A1	BCE	OUT1,WORK,	G	8	1126	B W85 849		306
1633	13	26		BCE	CKPRN,WORK-3,Q	G	8	1134	B /46 846 Q		306
1634	13	27	A2	B	OUT1	G	4	1142	B W85		306
1635	13	28	CKPRN	BCE	ISEQU,0&X1,%	G	8	1146	B /58 0 0 %		306
1636	13	29		B	SYNER	G	4	1154	B 883		306
1637	13	30	ISEQU	SW	FXSW#1,FLTSW#1	G	7	1158	, Y27 Y28		307
1638	13	31	EQUIV	MN	000&X1	G	4	1165	D 0 0		307
1639	13	32		SAR	X1	G	4	1169	Q 089		307
1640	13	33		SBR	COMP&3	G	4	1173	H  09		307
1641	13	34	CMPSW	NOP	LOOP	G	4	1177	N 929		307
1642	13	35	SVORG	EQU	*&1	G		1181			
1643	13	36		MN	0&X1,TST1&7	G	7	1181	D 0 0 S02		307
1644	13	37		MZ	0&X1,TST1&7	G	7	1188	Y 0 0 S02		307
1645	13	38	TST1	BCE	FIXED,@IJKLMNOP,X	G	8	1195	B S16 Y34 X		308
1646	13	39		CHAIN	5	G				MACRO	
1647				BCE		G	1	1203	B	GEN	308
1648				BCE		G	1	1204	B	GEN	308
1649				BCE		G	1	1205	B	GEN	308
1650				BCE		G	1	1206	B	GEN	308
1651				BCE		G	1	1207	B	GEN	308

EQUIV V. TABLE

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BLANK



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1652	13	40		CW	FLTSW	G	4	1208	) Y28		308
1653	13	41		B	*&5	G	4	1212	B S20		309
1654	13	42	FIXED	CW	FXSW	G	4	1216	) Y27		309
1655	13	43		BW	LOOP,FLTSW	G	8	1220	V 929 Y28 1		309
1656	13	44		BWZ		G	1	1228	V		309
1657	13	45		FTMSG	5,ILLEGAL EQUIVALENCE MIXING,WORK,27	G				MACRO	
1658				CS	332	G	4	1229	/ 332	GEN	309
1659				CS		G	1	1233	/	GEN	309
1660				SW	FAILSW	G	4	1234	, 184	GEN	309
1661				MN	WORK,224&27	G	7	1238	D 849 251	GEN	310
1662				MN		G	1	1245	D	GEN	310
1663				MN		G	1	1246	D	GEN	310
1664				MCW	@ERROR 5 - ILLEGAL EQUIVALENCE MIXING, STATEMENT @	G	4	1247	M Y82	GEN	310
1665				W		G	1	1251	2	GEN	310
1666				BCV	*&5	G	5	1252	B S61 @	GEN	310
1667				B	*&3	G	4	1257	B S63	GEN	310
1668				CC	1	G	2	1261	F 1	GEN	311
1669	13	46		SW	FXSW,FLTSW	G	7	1263	, Y27 Y28		311
1670	13	47		B	LOOP	G	4	1270	B 929		311
1671	13	48	CKSIM	MCW	X1,X3	G	7	1274	M 089 099		311
1672	13	49		BCE	ERR,0&X1,%	G	8	1281	B V05 0 0 %		311
1673	13	50		MCW	DRESS,X2	G	7	1289	M 852 094		311
1674	13	51		LCA	GM,1&X2	G	7	1296	L 839 0!1		312
1675	13	52		SBR	X2	G	4	1303	H 094		312
1676	13	53		MCW	COMP&3,X3	G	7	1307	M  09 099		312
1677	13	54		LCA	0&X3,0&X2	G	7	1314	L 0?0 0!0		312
1678	13	55		SBR	X2	G	4	1321	H 094		312
1679	13	56		MCW	PRED,X3	G	7	1325	M Y26 099		312
1680	13	57		LCA	PRED,0&X2	G	7	1332	L Y26 0!0		313
1681	13	58		LCA	BLNK5-2	G	4	1339	L Y85		313
1682	13	59		LCA	BLNK5-2	G	4	1343	L Y85		313
1683	13	60		SBR	PRED	G	4	1347	H Y26		313
1684	13	61		SBR	X2	G	4	1351	H 094		313
1685	13	62		LCA	BLNK5#5,0&X2	G	7	1355	L Y87 0!0		313
1686	13	63		LCA	@1@	G	4	1362	L Y88		313
1687	13	64		SBR	X2	G	4	1366	H 094		314
1688	13	65		MCW	PRED,6&X3	G	7	1370	M Y26 0?6		314
1689	13	66		BCE	NEWCD,086,	G	8	1377	B U35 086		314
1690	13	67	OLDCD	MN	0&X2	G	4	1385	D 0!0		314
1691	13	68		SAR	DRESS	G	4	1389	Q 852		314
1692	13	69	KLOBR	BCE	BSTAR,0,<	G	8	1393	B U46 000 <		314
1693	13	70		FQUIT		G				MACRO	
1694				CS	332	G	4	1401	/ 332	GEN	314
1695				CS		G	1	1405	/	GEN	315
1696				CC	1	G	2	1406	F 1	GEN	315
1697				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	G	7	1408	M Z24 270	GEN	315
1698				W		G	1	1415	2	GEN	315
1699				CC	1	G	2	1416	F 1	GEN	315
1700				BCE	*&6,MONTOR,1	G	8	1418	B U31 769 1	GEN	315
1701				RWD	1	G	5	1426	U %U1 R	GEN	315

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1702				H	*-3	G	4	1431	. U31	GEN	316
1703	13	71	NEWCD	MCW	PRED,086	G	7	1435	M Y26 086		316
1704	13	72		B	OLD CD	G	4	1442	B T85		316
1705	13	73	BSTAR	BCE	*&5,0&X1,)	G	8	1446	B U58 0 0 )		316
1706	13	74		B	EQBX1	G	4	1454	B U65		316
1707	13	75		SW	FXSW,FLTSW	G	7	1458	, Y27 Y28		316
1708	13	76	EQBX1	MN	0&X1	G	4	1465	D 0 0		316
1709	13	77		SBR	X1	G	4	1469	H 089		317
1710	13	78		SBR	COMP&3	G	4	1473	H  09		317
1711	13	79		BCE	CTU4,0&X1,,	G	8	1477	B W61 0 0 ,		317
1712	13	80		BCE	BSTAR,0&X1,}	G	8	1485	B U46 0 0 }	GMARK	317
1713	13	81		BCE	START,1&X1,}	G	8	1493	B /15 0 1 }	GMARK	317
1714	13	82		B	CMP SW	G	4	1501	B /77		317
1715	13	83	ERR	CS	299	G	4	1505	/ 299		318
1716	13	84		MCW	X3,X1	G	7	1509	M 099 089		318
1717	13	85		MCW	X2,HEX2#3	G	7	1516	M 094 Z27		318
1718	13	86		FFLIP	0&X1,248,X1,X2,,,%	G				MACRO	
1719				MN	248	G	4	1523	D 248	GEN	318
1720				MN		G	1	1527	D	GEN	318
1721				SAR	X2	G	4	1528	Q 094	GEN	318
1722				SBR	X1, 0&X1	G	7	1532	H 089 0 0	GEN	318
1723			)0K039	MCW	0&X1, )0L039#1	G	7	1539	M 0 0 Z28	GEN	319
1724				SAR	X1	G	4	1546	Q 089	GEN	319
1725				BCE	)0M039, )0L039, %	G	8	1550	B V73 Z28 %	GEN	319
1726				MCW	)0L039, 2&X2	G	7	1558	M Z28 0!2	GEN	319
1727				SBR	X2	G	4	1565	H 094	GEN	319
1728				B	)0K039	G	4	1569	B V39	GEN	319
1729			)0M039	EQU	*&1	G		1573		GEN	
1730	13	87		MCW	HEX2,X2	G	7	1573	M Z27 094		320
1731	13	88		SW	FAILSW	G	4	1580	, 184		320
1732	13	89		MN	WORK,240	G	7	1584	D 849 240		320
1733	13	90		CHAIN	2	G				MACRO	
1734				MN		G	1	1591	D	GEN	320
1735				MN		G	1	1592	D	GEN	320
1736	13	91		MCW	@ERROR 6 - UNDEFINED ARRAY, STATEMENT @	G	4	1593	M Z65		320
1737	13	92		FORMS		G				MACRO	
1738				BCV	*&5	G	5	1597	B W06 @	GEN	320
1739				B	*&3	G	4	1602	B W08	GEN	321
1740				CC	1	G	2	1606	F 1	GEN	321
1741	13	93		W		G	1	1608	2		321
1742	13	94	SCAN2	MN	0&X1	G	4	1609	D 0 0		321
1743	13	95		SAR	X1	G	4	1613	Q 089		321
1744	13	96		BCE	CTU4,0&X1,)	G	8	1617	B W61 0 0 )		321
1745	13	97		FBCEQ	SYNER,0&X1,% ,}	G				MACRO	
1746				BCE	SYNER, 0&X1, %	G	8	1625	B 883 0 0 %	GEN	321
1747				BCE	SYNER, 0&X1, }	G	8	1633	B 883 0 0 }	GEN	322
1748	13	98		BCE	SCAN2,0&X1,,	G	8	1641	B W09 0 0 ,		322
1749	13	99		BWZ	SCAN2,0&X1,2	G	8	1649	V W09 0 0 2		322
1750	14	00		B	SYNER	G	4	1657	B 883		322
1751	14	01	CTU4	MN	0&X1	G	4	1661	D 0 0		322

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1752	14	02		SAR	X1	G	4	1665	Q 089		322
1753	14	03		B	BSTAR	G	4	1669	B U46		323
1754	14	04	ISIN	BCE	SCAN2,0&X1,%	G	8	1673	B W09 0 0 %		323
1755	14	05		B	BSTAR	G	4	1681	B U46		323
1756	14	06	OUT1	SBR	A1&3,OUT	G	7	1685	H /29 X35		323
1757	14	07		SBR	A2&3,OUT	G	7	1692	H /45 X35		323
1758	14	08		SBR	FIND&3,NOTIN	G	7	1699	H 983 Y00		323
1759	14	09		SBR	A3&3,FOUND	G	7	1706	H  25 /81		324
1760	14	10		MCW	DRESS,HEX3	G	7	1713	M 852 876		324
1761	14	11		MCW	SAVE1#3,X1	G	7	1720	M Z68 089		324
1762	14	12		MCW	@B@,CMPSW	G	7	1727	M Y22 /77		324
1763	14	13		MCW	@N@,ISEQU	G	7	1734	M Z69 /58		324
1764	14	14		FENDX	C,,SVORG,START,SVORG,SYS1,EQUIV TWO	G				MACRO	
1765				BSS	333,C	G	5	1741	B 333 C	GEN	325
1766				SBR	INITAP&6,SVORG	G	7	1746	H 786 /81	GEN	325
1767				SBR	BCLEAR	G	4	1753	H 833	GEN	325
1768				SBR	INITXT&3,START	G	7	1757	H 796 /15	GEN	325
1769				SBR	TCLEAR,SYS1	G	7	1764	H 710 Z79	GEN	325
1770				LCA	@EQUIV TWO@,110	G	7	1771	L Z78 110	GEN	325
1771				B	MONTER	G	4	1778	B 700	GEN	326
1772	14	15		LTORG	*	G			1782		
				DCW	@ERROR 4 - EQUIVALENCE SYNTAX, STATEMENT @	G	40	1821		LIT	328
				DCW	@B@	G	1	1822		LIT	328
				DCW	@<@	G	1	1823		LIT	328
			PRED G	DCW	#03	G	3	1826		AREA	328
			FXSW G	DCW	#01	G	1	1827		AREA	328
			FLTSWG	DCW	#01	G	1	1828		AREA	329
				DCW	@IJKLMNOP@	G	6	1834		LIT	329
				DCW	@ERROR 5 - ILLEGAL EQUIVALENCE MIXING, STATEMENT @	G	48	1882		LIT	331
			BLNK5G	DCW	#05	G	5	1887		AREA	331
				DCW	@1@	G	1	1888		LIT	331
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	G	36	1924		LIT	332
			HEX2 G	DCW	#03	G	3	1927		AREA	332
			)0L039	DCW	#01	G	1	1928		AREA	333
				DCW	@ERROR 6 - UNDEFINED ARRAY, STATEMENT @	G	37	1965		LIT	333
			SAVE1G	DCW	#03	G	3	1968		AREA	334
				DCW	@N@	G	1	1969		LIT	334
				DCW	@EQUIV TWO@	G	9	1978		LIT	334
1773	14	16	SYS1	DCW	@}@	G	1	1979		GMARK	334
1774	14	17		XFR	INITL	G			B  34		335

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1775	14	18		JOB	1401 FORTRAN EQUIVALENCE PHASE 2	G					
1776	14	19	110	DCW	@EQUIV TWO@	G	9	0110			338
1777	14	20		ORG	SVORG	G			1181		
1778	14	21	FOUND	LCA	@00000@,TALLY	G	7	1181	L Z91 865		339
1779	14	22		NOP	000&X2	G	4	1188	N 0!0		339
1780	14	23		MCW		G	1	1192	M		339
1781	14	24		MCW		G	1	1193	M		339
1782	14	25		MCW		G	1	1194	M		339
1783	14	26		MCW		G	1	1195	M		339
1784	14	27		SAR	X2	G	4	1196	Q 094		339
1785	14	28		BAV	*&1	G	5	1200	B S05 Z		340
1786	14	29		S	ERCTR#3	G	4	1205	S Z94		340
1787	14	30	NEST	BCE	NOMO,001&X2, BLANK	G	8	1209	B S47 0!1		340
1788	14	31		A	000&X2,TALLY	G	7	1217	A 0!0 865		340
1789	14	32		MCW	003&X2,X2	G	7	1224	M 0!3 094		340
1790	14	33		A	&1,ERCTR	G	7	1231	A Z95 Z94		340
1791	14	34		BAV	MSG	G	5	1238	B Z51 Z		341
1792	14	35		B	NEST	G	4	1243	B S09		341
1793	14	36	NOMO	MCW	X2,TALLY&3	G	7	1247	M 094 868		341
1794	14	37		BCE	TURN,000&X1,%	G	8	1254	B V92 0!0 %		341
1795	14	38		A	@1@,TALLY	G	7	1262	A Z96 865		341
1796	14	39	FIGHT	MCW	HEX3,X3	G	7	1269	M 876 099		341
1797	14	40		LCA	CHAMP,ACCUM	G	7	1276	L 857 873		342
1798	14	41		S	TALLY,ACCUM	G	7	1283	S 865 873		342
1799	14	42		BWZ	CHUMP,ACCUM,K	G	8	1290	V W53 873 K		342
1800	14	43		LCA	TALLY&3,000&X3	G	7	1298	L 868 0?0		342
1801	14	44		SBR	HEX3	G	4	1305	H 876		342
1802	14	45	ANYMO	BCE	EQUIV,000&X1,, COMMA	G	8	1309	B /65 0!0 ,		343
1803	14	46		BCE	BPDWN,0&X1,)	G	8	1317	B T29 0!0 )		343
1804	14	47		B	SYNER	G	4	1325	B 883		343
1805	14	48	BPDWN	MN	0&X1	G	4	1329	D 0!0		343
1806	14	49		MN		G	1	1333	D		343
1807	14	50		SAR	HEX1#3	G	4	1334	Q Z99		343
1808	14	51		MCW	HEX3,X3	G	7	1338	M 876 099		343
1809	14	52		LCA	@\$@,000&X3	G	7	1345	L !00 0?0		344
1810	14	53		MCW	DRESS,X3	G	7	1352	M 852 099		344
1811	14	54	MAIN	BCE	DONE,000&X3,\$	G	8	1359	B W83 0?0 \$		344
1812	14	55		MCW	0&X3,HOLD3#3	G	7	1367	M 0?0 !03		344
1813	14	56		C	CHAMP&3,HOLD3	G	7	1374	C 860 !03		344
1814	14	57		BE	OOPS1	G	5	1381	B Y28 S		345
1815	14	58	GT1	MCW	0&X3,X2	G	7	1386	M 0?0 094		345
1816	14	59		SAR	HEX3	G	4	1393	Q 876		345
1817	14	60		BCE	*&5,0&X2, BLANK	G	8	1397	B U09 0!0		345
1818	14	61		B	OOPS2	G	4	1405	B Z72		345
1819	14	62	PULL1	MCW	9&X2,X1	G	7	1409	M 0!9 089		345
1820	14	63	LOWER	MCW	006&X2,X3 AFTER TAIL OF NEW FOLLOWER	G	7	1416	M 0!6 099		346
1821	14	64		BCE	LAST,X3, BLANK	G	8	1423	B U47 099		346
1822	14	65		BCE	LAST,001&X3, BLANK	G	8	1431	B U47 0?1		346
1823	14	66		SBR	X2 TAIL OF NEW FOLLOWER	G	4	1439	H 094		346
1824	14	67		B	LOWER	G	4	1443	B U16		346

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1825	14	68	LAST	BCE	*&8,X3, BLANK	G	8	1447	B U62 099		346
1826	14	69		MCW	X1,9&X3	G	7	1455	M 089 0?9		347
1827	14	70		BCE	INISH,X1, BLANK	G	8	1462	B X24 089		347
1828	14	71		MCW	X3,6&X1	G	7	1470	M 099 0 6		347
1829	14	72	LINK	MCW	CHAMP&3,X1 HEAD OF LEADER	G	7	1477	M 860 089		347
1830	14	73		MCW	006&X1,006&X2	G	7	1484	M 0 6 0!6		347
1831	14	74		MCW	6&X1,X3	G	7	1491	M 0 6 099		348
1832	14	75		MCW	X2,9&X3	G	7	1498	M 094 0?9		348
1833	14	76		MCW	HEX3,X3	G	7	1505	M 876 099		348
1834	14	77		MCW	003&X3,X2 HEAD OF NEW FOLLOWER	G	7	1512	M 0?3 094		348
1835	14	78		MCW	X2,006&X1	G	7	1519	M 094 0 6		348
1836	14	79		MCW	X1,9&X2	G	7	1526	M 089 0!9		349
1837	14	80		MCW	CHAMP&3,003&X2	G	7	1533	M 860 0!3		349
1838	14	81		MCW		G	1	1540	M		349
1839	14	82		S	000&X3,000&X2	G	7	1541	S 0?0 0!0		349
1840	14	83		SAR	X3	G	4	1548	Q 099		349
1841	14	84		BW	MAIN,ERRSW	G	8	1552	V T59 J44 1		349
1842	14	85		SW	ERRSW	G	4	1560	, J44		349
1843	14	86		C	0&X2, SAVE5	G	7	1564	C 0!0 J43		350
1844	14	87		BE	ISRED	G	5	1571	B V84 S		350
1845	14	88		B	QVERR	G	4	1576	B Y67		350
1846	14	89		B	MAIN	G	4	1580	B T59		350
1847	14	90	ISRED	B	RDMSG	G	4	1584	B Z09		350
1848	14	91		B	MAIN	G	4	1588	B T59		350
1849	14	92	TURN	FFLIP	0&X1,SPACE-1,X1,X3,,,) MACRO	G					
1850			TURN	MN	SPACE-1	G	4	1592	D 877	GEN	350
1851				MN		G	1	1596	D	GEN	351
1852				SAR	X3	G	4	1597	Q 099	GEN	351
1853				SBR	X1, 0&X1	G	7	1601	H 089 0 0	GEN	351
1854			)OK043	MCW	0&X1,)0L043#1	G	7	1608	M 0 0 !04	GEN	351
1855				SAR	X1	G	4	1615	Q 089	GEN	351
1856				BCE	)0M043, )0L043, )	G	8	1619	B W42 !04 )	GEN	351
1857				MCW	)0L043, 2&X3	G	7	1627	M !04 0?2	GEN	351
1858				SBR	X3	G	4	1634	H 099	GEN	352
1859				B	)0K043	G	4	1638	B W08	GEN	352
1860			)0M043	EQU	*&1	G		1642		GEN	
1861	14	93		A	001&X3,TALLY	G	7	1642	A 0?1 865		352
1862	14	94		B	FIGHT	G	4	1649	B S69		352
1863	14	95	CHUMP	BCE	CINCH,CHAMP, BLANK	G	8	1653	B W72 857		352
1864	14	96		LCA	CHAMP&3,000&X3	G	7	1661	L 860 0?0		352
1865	14	97		SBR	HEX3	G	4	1668	H 876		352
1866	14	98	CINCH	MCW	TALLY&3,CHAMP&3	G	7	1672	M 868 860		353
1867	14	99		B	ANYMO	G	4	1679	B T09		353
1868	15	00	DONE	MCW	HEX1,X1	G	7	1683	M Z99 089		353
1869	15	01		LCA	@ @,CHAMP	G	7	1690	L !09 857		353
1870	15	02		MCW	DRESS,HEX3	G	7	1697	M 852 876		353
1871	15	03		BCE	ISEQU,1&X1,,	G	8	1704	B /58 0 1		354
1872	15	04		BCE	START,1&X1,}	G	8	1712	B /15 0 1 }	GMARK	354
1873	15	05		B	SYNER	G	4	1720	B 883		354
1874	15	06	INISH	MCW	X3,FIRST	G	7	1724	M 099 086		354

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1875	15	07		B	LINK	G	4	1731	B U77		354
1876	15	08	OUT	MCW	DRESS,X3	G	7	1735	M 852 099		354
1877	15	09		MCW	GM, 001&X3	G	7	1742	M 839 0?1		355
1878	15	10		MCM	5&X1	G	4	1749	P 0 5		355
1879	15	11		MN		G	1	1753	D		355
1880	15	12		MN		G	1	1754	D		355
1881	15	13		SAR	X1	G	4	1755	Q 089		355
1882	15	14		FENDX	C,GM,,XBEGIN,XBEGIN,XBEGIN,SYS2,DIMEN TWO	G				MACRO	
1883				BSS	333,C	G	5	1759	B 333 C	GEN	355
1884				SBR	INITAP&6,XBEGIN	G	7	1764	H 786 838	GEN	355
1885				SBR	BCLEAR	G	4	1771	H 833	GEN	356
1886				SBR	INITXT&3,XBEGIN	G	7	1775	H 796 838	GEN	356
1887				SBR	TCLEAR,SYS2	G	7	1782	H 710 J45	GEN	356
1888				LCA	@DIMEN TWO@,110	G	7	1789	L !18 110	GEN	356
1889				B	MONTER	G	4	1796	B 700	GEN	356
1890	15	15	NOTIN	BCE	CTU3,0&X1,)	G	8	1800	B Y16 0 0 )		356
1891	15	16		SBR	X1	G	4	1808	H 089		357
1892	15	17		B	NOTIN	G	4	1812	B Y00		357
1893	15	18	CTU3	MN	0&X1	G	4	1816	D 0 0		357
1894	15	19		SAR	X1	G	4	1820	Q 089		357
1895	15	20		B	EQUIV	G	4	1824	B /65		357
1896	15	21	OOPS1	MCW	0&X3, X2	G	7	1828	M 0?0 094		357
1897	15	22		SAR	X2	G	4	1835	Q 094		357
1898	15	23		C	0&X2, CHAMP	G	7	1839	C 0!0 857		358
1899	15	24		BE	REDUN	G	5	1846	B Y59 S		358
1900	15	25		B	QVERR	G	4	1851	B Y67		358
1901	15	26		B	GT1	G	4	1855	B T86		358
1902	15	27	REDUN	B	RDMSG	G	4	1859	B Z09		358
1903	15	28		B	GT1	G	4	1863	B T86		358
1904	15	29	QVERR	SBR	QVXT&3	G	4	1867	H Z08		358
1905	15	30		FTMSG	7,ILLEGAL EQUIVALENCE,WORK,20	G				MACRO	
1906				CS	332	G	4	1871	/ 332	GEN	359
1907				CS		G	1	1875	/	GEN	359
1908				SW	FAILSW	G	4	1876	, 184	GEN	359
1909				MN	WORK,224&20	G	7	1880	D 849 244	GEN	359
1910				MN		G	1	1887	D	GEN	359
1911				MN		G	1	1888	D	GEN	359
1912				MCW	@ERROR 7 - ILLEGAL EQUIVALENCE, STATEMENT @	G	4	1889	M !59	GEN	359
1913				W		G	1	1893	2	GEN	360
1914				BCV	*&5	G	5	1894	B Z03 @	GEN	360
1915				B	*&3	G	4	1899	B Z05	GEN	360
1916				CC	1	G	2	1903	F 1	GEN	360
1917	15	31	QVXT	B	0	G	4	1905	B 000		360
1918	15	32	RDMSG	SBR	RDXT&3	G	4	1909	H Z50		360
1919	15	33		FTMSG	8,REDUNDANT EQUIVALENCE,WORK,22	G				MACRO	
1920				CS	332	G	4	1913	/ 332	GEN	360
1921				CS		G	1	1917	/	GEN	361
1922				SW	FAILSW	G	4	1918	, 184	GEN	361
1923				MN	WORK,224&22	G	7	1922	D 849 246	GEN	361
1924				MN		G	1	1929	D	GEN	361

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1925				MN		G	1	1930	D	GEN	361
1926				MCW	@ERROR 8 - REDUNDANT EQUIVALENCE, STATEMENT @	G	4	1931	M J02	GEN	361
1927				W		G	1	1935	2	GEN	361
1928				BCV	*&5	G	5	1936	B Z45 @	GEN	362
1929				B	*&3	G	4	1941	B Z47	GEN	362
1930				CC	1	G	2	1945	F 1	GEN	362
1931	15	34	RDXT	B	0	G	4	1947	B 000		362
1932	15	35	MSG	MESSG	@CORRECT ERRORS INDICATED AND RESTART@,70,L,1	G				MACRO	
1933			MSG	CC	L	G	2	1951	F L	GEN	362
1934				CS	332	G	4	1953	/ 332	GEN	362
1935				CS		G	1	1957	/	GEN	362
1936				MCW	@CORRECT ERRORS INDICATED AND RESTART@,70&200	G	7	1958	M J38 270	GEN	363
1937				W		G	1	1965	2	GEN	363
1938				CC	1	G	2	1966	F 1	GEN	363
1939	15	36		H	*-3	G	4	1968	. Z68		363
1940	15	37	OOPS2	MCW	0&X2, SAVE5#5	G	7	1972	M 0!0 J43		363
1941	15	38		CW	ERRSW#1	G	4	1979	) J44		363
1942	15	39		B	PULL1	G	4	1983	B U09		363
1943	15	40		LTORG	*	G			1987		
				DCW	@00000@	G	5	1991		LIT	364
			ERCTRG	DCW	#03	G	3	1994		AREA	364
				DCW	&1	G	1	1995		LIT	364
				DCW	@1@	G	1	1996		LIT	364
			HEX1 G	DCW	#03	G	3	1999		AREA	364
				DCW	@\$@	G	1	2000		LIT	364
			HOLD3G	DCW	#03	G	3	2003		AREA	364
			)0L043	DCW	#01	G	1	2004		AREA	365
				DCW	@ @	G	5	2009		LIT	365
				DCW	@DIMEN TWO@	G	9	2018		LIT	365
				DCW	@ERROR 7 - ILLEGAL EQUIVALENCE, STATEMENT @	G	41	2059		LIT	367
				DCW	@ERROR 8 - REDUNDANT EQUIVALENCE, STATEMENT @	G	43	2102		LIT	369
				DCW	@CORRECT ERRORS INDICATED AND RESTART@	G	36	2138		LIT	370
			SAVE5G	DCW	#05	G	5	2143		AREA	371
			ERRSWG	DCW	#01	G	1	2144		AREA	371
1944	15	41	SYS2	DCW	@}@	G	1	2145		GMARK	371
1945	15	42		XFR	START	G			B /15		372

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1946	15	43		JOB	1401 FORTRAN DIMENSION PHASE TWO	G					
1947	15	44		FBEGN	DIMEN TWO,X1,,X2,R,X3,,H	G				MACRO	
1948				SFX	H	H				GEN	
1949		110		DCW	@DIMEN TWO@	H	9	0110		GEN	375
1950			X1	EQU	089	H		0089		GEN	
1951			X2	EQU	094	H		0094		GEN	
1952		094		DCW	000	H	3	0094		GEN	376
1953		096		DC	00	H	2	0096		GEN	376
1954			X3	EQU	099	H		0099		GEN	
1955	15	45	PARAM	EQU	PARAMA	H		0686			
1956	15	46		ORG	XBEGIN	H			0838		
1957	15	47	TSTIO	BCE	INITL,PARAM&10, BLANK	H	8	0838	B 891 696		377
1958	15	48		SBR	X2,AFORM	H	7	0846	H 094 !60		377
1959	15	49		BCE	MOVE,PARAM&10,A	H	8	0853	B !33 696 A		377
1960	15	50		SBR	X2,LIMIO	H	7	0861	H 094 !68		377
1961	15	51		BCE	MOVE,PARAM&10,L	H	8	0868	B !33 696 L		377
1962	15	52		SBR	X2,NOIO	H	7	0876	H 094 !76		378
1963	15	53		BCE	MOVE,PARAM&10,X	H	8	0883	B !33 696 X		378
1964	15	54	INITL	MCW	X3,083 ADDRESS OF TABLE-1	H	7	0891	M 099 083		378
1965	15	55		A	&2,PARAM&6	H	7	0898	A J30 692		378
1966	15	56		SW	GM	H	4	0905	, !85		378
1967	15	57		LCA	GM,001&X3	H	7	0909	L !85 0?1		379
1968	15	58		BCE	NIX,086, BLANK, NO DIMENSION	H	8	0916	B V98 086		379
1969	15	59		MCW	086,X3 ADDRESS OF LOWEST ARRAY	H	7	0924	M 086 099		379
1970	15	60	START	S	ACCUM#6	H	4	0931	S J36		379
1971	15	61		MCW	006&X3,LINK#3	H	7	0935	M 0?6 J39		379
1972	15	62		BCE	LEADR,001&X3, BLANK	H	8	0942	B T43 0?1		380
1973	15	63		MCW	003&X3,X2 ADDRESS OF LEADER IN X2	H	7	0950	M 0?3 094		380
1974	15	64		ZA	000&X3,PROD	H	7	0957	? 0?0 !91		380
1975	15	65		M	005&X2,PROD&3	H	7	0964	@ 0!5 !94		380
1976	15	66		A	000&X2,PROD&3	H	7	0971	A 0!0 !94		380
1977	15	67		MCW	PROD&3,000&X3	H	7	0978	M !94 0?0		381
1978	15	68	PACK	MCW	000&X3,ACCUM	H	7	0985	M 0?0 J36		381
1979	15	69		SAR	X3	H	4	0992	Q 099		381
1980	15	70		S	&1,ACCUM	H	7	0996	S J40 J36		381
1981	15	71		MCW	X3,X2	H	7	1003	M 099 094		381
1982	15	72	LOOP3	MCM	2&X2	H	4	1010	P 0!2		381
1983	15	73		MN		H	1	1014	D		381
1984	15	74		MN		H	1	1015	D		382
1985	15	75		SAR	X2	H	4	1016	Q 094		382
1986	15	76		BCE	LOOP3,1&X2,	H	8	1020	B  10 0!1		382
1987	15	77		MCW	0&X2,BOX#1	H	7	1028	M 0!0 J41		382
1988	15	78		MCW	BOX,*&8	H	7	1035	M J41  49		382
1989	15	79		BCE	FIX1,@IJKLMN@,0	H	8	1042	B T32 J47 0		382
1990	15	80		CHAIN	5	H				MACRO	
1991				BCE		H	1	1050	B	GEN	382
1992				BCE		H	1	1051	B	GEN	383
1993				BCE		H	1	1052	B	GEN	383
1994				BCE		H	1	1053	B	GEN	383
1995				BCE		H	1	1054	B	GEN	383



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1996	15	81		A	PARAM&6,ACCUM	H	7	1055	A 692 J36		383
1997	15	82	CTU3	MCW	ACCUM,14&X3	H	7	1062	M J36 0A4		383
1998	15	83		MCW	ACCUM-3,X2	H	7	1069	M J33 094		383
1999	15	84		A	X2	H	4	1076	A 094		384
2000	15	85		MZ	ZONES&X2,012&X3	H	7	1080	Y !R8 0A2		384
2001	15	86		MZ	ZONES&1&X2,014&X3	H	7	1087	Y !R9 0A4		384
2002	15	87		ZA	@0@,PROD	H	7	1094	? J48 !91		384
2003	15	88		MCW	000&X3,PROD	H	7	1101	M 0?0 !91		384
2004	15	89		MCW	BLANK	H	4	1108	M !96		384
2005	15	90		SBR	MPLR&6	H	4	1112	H /39		385
2006	15	91		NOP	000&X3	H	4	1116	N 0?0		385
2007	15	92		MCW		H	1	1120	M		385
2008	15	93		SAR	X2	H	4	1121	Q 094		385
2009	15	94		BCE	NOCOL,000&X2,}	H	8	1125	B /47 0!0 }	GMARK	385
2010	15	95	MPLR	MCW	000&X2,000	H	7	1133	M 0!0 000		385
2011	15	96		M	000&X3,PROD	H	7	1140	@ 0?0 !91		385
2012	15	97	NOCOL	LCA	@ @,008&X3	H	7	1147	L J51 0?8		386
2013	15	98		MCW	X1,HOLD1#3	H	7	1154	M 089 J54		386
2014	15	99		MCW	14&X3,X1	H	7	1161	M 0A4 089		386
2015	16	00		MCW	BOX,*&8	H	7	1168	M J41 /82		386
2016	16	01		BCE	FIXED,@IJKLMNOP@,0	H	8	1175	B T65 J60 0		386
2017	16	02		CHAIN	5	H				MACRO	
2018				BCE		H	1	1183	B	GEN	386
2019				BCE		H	1	1184	B	GEN	386
2020				BCE		H	1	1185	B	GEN	387
2021				BCE		H	1	1186	B	GEN	387
2022				BCE		H	1	1187	B	GEN	387
2023	16	03		M	PARAM&6,PROD&3	H	7	1188	@ 692 !94		387
2024	16	04		MZ	@A@,007&X3	H	7	1195	Y J61 0?7		387
2025	16	05		MCW	PARAM&6,010&X3	H	7	1202	M 692 0A0		387
2026	16	06	BUMP	MZ	7&X3,13&X3	H	7	1209	Y 0?7 0A3		387
2027	16	07		MCW	HOLD1,X1	H	7	1216	M J54 089		388
2028	16	08		S	10&X3,ACCUM	H	7	1223	S 0A0 J36		388
2029	16	09		A	PROD&3,ACCUM	H	7	1230	A !94 J36		388
2030	16	10		FPAK	ACCUM,8&X3,X2	H				MACRO	
2031				INCLD	ZONES	H				MACRO	
2032				MN	ACCUM,8&X3	H	7	1237	D J36 0?8	GEN	388
2033				MN		H	1	1244	D	GEN	388
2034				MN		H	1	1245	D	GEN	388
2035				SAR	*&4	H	4	1246	Q S53	GEN	388
2036				MCW	0,X2	H	7	1250	M 000 094	GEN	389
2037				MCW	@0@	H	4	1257	M J48	GEN	389
2038				A	X2	H	4	1261	A 094	GEN	389
2039				MZ	ZONES&1&X2,8&X3	H	7	1265	Y !R9 0?8	GEN	389
2040				CW		H	1	1272	)	GEN	389
2041				SBR	*&7	H	4	1273	H S83	GEN	389
2042				MZ	ZONES&X2, 0	H	7	1277	Y !R8 000	GEN	389
2043	16	11		A	&1,ACCUM	H	7	1284	A J40 J36		390
2044	16	12		S	ACCUM,COUNT	H	7	1291	S J36 !49		390
2045	16	13		BWZ	ALTER,COUNT,K	H	8	1298	V T54 !49 K		390

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2046	16	14		A	ACCUM,COUNT	H	7	1306	A J36 !49		390
2047	16	15	TEST	BCE	OUT, LINK, BLANK	H	8	1313	B T90 J39		390
2048	16	16		MCW	LINK,X3	H	7	1321	M J39 099		391
2049	16	17		B	START	H	4	1328	B 931		391
2050	16	18	FIX1	A	PARAM&4,ACCUM	H	7	1332	A 690 J36		391
2051	16	19		B	CTU3	H	4	1339	B  62		391
2052	16	20	LEADR	MCW	COUNT,000&X3	H	7	1343	M !49 0?0		391
2053	16	21		B	PACK	H	4	1350	B 985		391
2054	16	22	ALTER	MCW	ACCUM,COUNT	H	7	1354	M J36 !49		392
2055	16	23		B	TEST	H	4	1361	B T13		392
2056	16	24	FIXED	M	PARAM&4,PROD&3	H	7	1365	@ 690 !94		392
2057	16	25		MZ	@J@,007&X3	H	7	1372	Y J62 0?7		392
2058	16	26		MCW	PARAM&4,010&X3	H	7	1379	M 690 0A0		392
2059	16	27		B	BUMP	H	4	1386	B S09		392
2060	16	28	OUT	UNPAK	PARAM&2,RELOC	H				MACRO	
2061			OUT	S	)0M050#2	H	4	1390	S J64	GEN	393
2062				S	)0L050#2	H	4	1394	S J66	GEN	393
2063				MZ	PARAM&2,)0M050-1	H	7	1398	Y 688 J63	GEN	393
2064				MZ	PARAM&2-2,)0L050-1	H	7	1405	Y 686 J65	GEN	393
2065			)0J050	BWZ	)0K050,)0L050-1, 2	H	8	1412	V U31 J65 2	GEN	393
2066				A	@A0@,)0L050	H	7	1420	A J68 J66	GEN	393
2067				B	)0J050	H	4	1427	B U12	GEN	394
2068			)0K050	BWZ	)0P050,)0M050-1, 2	H	8	1431	V U50 J63 2	GEN	394
2069				A	@?4@,)0M050	H	7	1439	A J70 J64	GEN	394
2070				B	)0K050	H	4	1446	B U31	GEN	394
2071			)0P050	A	)0L050-1,)0M050	H	7	1450	A J65 J64	GEN	394
2072				MCW	PARAM&2,RELOC	H	7	1457	M 688 !81	GEN	394
2073				MCW	)0M050	H	4	1464	M J64	GEN	395
2074				ZA	RELOC	H	4	1468	? !81	GEN	395
2075				MZ	*-4, RELOC	H	7	1472	Y U74 !81	GEN	395
2076	16	29		S	COUNT,RELOC	H	7	1479	S !49 !81		395
2077	16	30		S	&1,RELOC	H	7	1486	S J40 !81		395
2078	16	31		BWZ	TUBIG,RELOC,K	H	8	1493	V V66 !81 K		395
2079	16	32		FPAK	RELOC,ADJST,X2	H				MACRO	
2080				INCLD	ZONES	H				MACRO	
2081				MN	RELOC,ADJST	H	7	1501	D !81 !84	GEN	396
2082				MN		H	1	1508	D	GEN	396
2083				MN		H	1	1509	D	GEN	396
2084				SAR	*&4	H	4	1510	Q V17	GEN	396
2085				MCW	0,X2	H	7	1514	M 000 094	GEN	396
2086				MCW	@0@	H	4	1521	M J48	GEN	396
2087				A	X2	H	4	1525	A 094	GEN	396
2088				MZ	ZONES&1&X2,ADJST	H	7	1529	Y !R9 !84	GEN	397
2089				CW		H	1	1536	)	GEN	397
2090				SBR	*&7	H	4	1537	H V47	GEN	397
2091				MZ	ZONES&X2, 0	H	7	1541	Y !R8 000	GEN	397
2092	16	33		MCW	NXTOP,CONLST	H	7	1548	M !52 194		397
2093	16	34		MA	ADJST,CONLST	H	7	1555	# !84 194		397
2094	16	35		B	SKIPF	H	4	1562	B W05		397
2095	16	36	TUBIG	BW	SKIPF,LGSW	H	8	1566	V W05 !95 1		398

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2096	16	37		CS	332	H	4	1574	/ 332		398
2097	16	38		CS		H	1	1578	/		398
2098	16	39		MLC	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	H	7	1579	M K06 270		398
2099	16	40		W		H	1	1586	2		398
2100	16	41		SW	FAILSW,LGSW	H	7	1587	, 184 !95		398
2101	16	42		S	RELOC	H	4	1594	S !81		398
2102	16	43	NIX	MCW	PARAM&2,CONLST	H	7	1598	M 688 194		399
2103	16	44	SKIPF	MCW	NXTOP,086	H	7	1605	M !52 086		399
2104	16	45	*DUMP	ARRAY	TABLE						
2105	16	46		CC	L	H	2	1612	F L		399
2106	16	47		FORMS		H				MACRO	
2107				BCV	*&5	H	5	1614	B W23 @	GEN	399
2108				B	*&3	H	4	1619	B W25	GEN	399
2109				CC	1	H	2	1623	F 1	GEN	399
2110	16	48		CS	332	H	4	1625	/ 332		399
2111	16	49		CS		H	1	1629	/		400
2112	16	50		MCW	@STORAGE ASSIGNMENT-ARRAYS & EQUATED VARIABLES@,247	H	7	1630	M K51 247		400
2113	16	51		W		H	1	1637	2		400
2114	16	52		CC	J	H	2	1638	F J		400
2115	16	53		MCW	083,X3	H	7	1640	M 083 099		400
2116	16	54	LOOPA	NOP	10&X3	H	4	1647	N 0A0		400
2117	16	55		MCM		H	1	1651	P		400
2118	16	56		SAR	X3	H	4	1652	Q 099		401
2119	16	57		CS	299	H	4	1656	/ 299		401
2120	16	58	TSDUN	BCE	NODUN,0&X3,	H	8	1660	B Z72 0?0		401
2121	16	59		BCE		H	1	1668	B		401
2122	16	60		MN	0&X3	H	4	1669	D 0?0		401
2123	16	61		MN		H	1	1673	D		401
2124	16	62		SAR	X3	H	4	1674	Q 099		401
2125	16	63		BCE	NORAY,0&X3, :	H	8	1678	B Z84 0?0 :		402
2126	16	64		FFLIP	0&X3,201,X3,X2,INC,WM	H				MACRO	
2127				MN	201	H	4	1686	D 201	GEN	402
2128				MN		H	1	1690	D	GEN	402
2129				SAR	X2	H	4	1691	Q 094	GEN	402
2130				SBR	X3, 0&X3	H	7	1695	H 099 0?0	GEN	402
2131			)0K053	MCW	0&X3,)0L053#1	H	7	1702	M 0?0 K52	GEN	402
2132				SAR	X3	H	4	1709	Q 099	GEN	402
2133				MCW	)0L053, 2&X2	H	7	1713	M K52 0!2	GEN	403
2134				SBR	X2	H	4	1720	H 094	GEN	403
2135				BW	)0M053, 1&X3	H	8	1724	V X36 0?1 1	GEN	403
2136				B	)0K053	H	4	1732	B X02	GEN	403
2137			)0M053	EQU	*&1	H		1736		GEN	
2138	16	65		C	0&X3	H	4	1736	C 0?0		403
2139	16	66		CHAIN	3	H				MACRO	
2140				C		H	1	1740	C	GEN	403
2141				C		H	1	1741	C	GEN	403
2142				C		H	1	1742	C	GEN	404
2143	16	67		SAR	X2	H	4	1743	Q 094		404
2144	16	68		A	RELOC,5&X2	H	7	1747	A !81 0!5		404
2145	16	69		MA	ADJUST,8&X2	H	7	1754	# !84 0!8		404

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2146	16	70		MA	ADJST,14&X2	H	7	1761	# !84 0J4		404
2147	16	71		MCS	5&X2,218	H	7	1768	Z 0!5 218		404
2148	16	72		MCW	8&X2,234	H	7	1775	M 0!8 234		405
2149	16	73		MZ	BLANK,233	H	7	1782	Y !96 233		405
2150	16	74		SW	220	H	4	1789	, 220		405
2151	16	75		UNPAK	8&X2,224	H				MACRO	
2152				S	)0M054#2	H	4	1793	S K54	GEN	405
2153				S	)0L054#2	H	4	1797	S K56	GEN	405
2154				MZ	8&X2, )0M054-1	H	7	1801	Y 0!8 K53	GEN	405
2155				MZ	8&X2-2, )0L054-1	H	7	1808	Y 0!6 K55	GEN	406
2156			)0J054	BWZ	)0K054, )0L054-1, 2	H	8	1815	V Y34 K55 2	GEN	406
2157				A	@A0@, )0L054	H	7	1823	A J68 K56	GEN	406
2158				B	)0J054	H	4	1830	B Y15	GEN	406
2159			)0K054	BWZ	)0P054, )0M054-1, 2	H	8	1834	V Y53 K53 2	GEN	406
2160				A	@?4@, )0M054	H	7	1842	A J70 K54	GEN	407
2161				B	)0K054	H	4	1849	B Y34	GEN	407
2162			)0P054	A	)0L054-1, )0M054	H	7	1853	A K55 K54	GEN	407
2163				MCW	8&X2,224	H	7	1860	M 0!8 224	GEN	407
2164				MCW	)0M054	H	4	1867	M K54	GEN	407
2165				ZA	224	H	4	1871	? 224	GEN	407
2166				MZ	*-4, 224	H	7	1875	Y Y77 224	GEN	408
2167	16	76		MCW	@-@, 219	H	7	1882	M K57 219		408
2168	16	77		FPACK	5&X2,230,X2	H				MACRO	
2169				INCLD	ZONES	H				MACRO	
2170				MN	5&X2,230	H	7	1889	D 0!5 230	GEN	408
2171				MN		H	1	1896	D	GEN	408
2172				MN		H	1	1897	D	GEN	408
2173				SAR	*&4	H	4	1898	Q Z05	GEN	408
2174				MCW	0,X2	H	7	1902	M 000 094	GEN	408
2175				MCW	@0@	H	4	1909	M J48	GEN	409
2176				A	X2	H	4	1913	A 094	GEN	409
2177				MZ	ZONES&1&X2,230	H	7	1917	Y !R9 230	GEN	409
2178				CW		H	1	1924	)	GEN	409
2179				SBR	*&7	H	4	1925	H Z35	GEN	409
2180				MZ	ZONES&X2, 0	H	7	1929	Y !R8 000	GEN	409
2181	16	78		FORMS		H				MACRO	
2182				BCV	*&5	H	5	1936	B Z45 @	GEN	409
2183				B	*&3	H	4	1941	B Z47	GEN	410
2184				CC	1	H	2	1945	F 1	GEN	410
2185	16	79		W		H	1	1947	2		410
2186	16	80		CS	299	H	4	1948	/ 299		410
2187	16	81		MCM	1&X3	H	4	1952	P 0?1		410
2188	16	82		SAR	X3	H	4	1956	Q 099		410
2189	16	83		BCE	EOJ,0&X3,	H	8	1960	B !08 0?0		410
2190	16	84		B	LOOPA	H	4	1968	B W47		411
2191	16	85	NODUN	MCM	0&X3	H	4	1972	P 0?0		411
2192	16	86		SBR	X3	H	4	1976	H 099		411
2193	16	87		B	TSDUN	H	4	1980	B W60		411
2194	16	88	NORAY	MESSG	@NO ARRAYS@,9	H				MACRO	
2195			NORAY	CS	332	H	4	1984	/ 332	GEN	411

BLANK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2196				CS		H	1	1988	/	GEN	411
2197				MCW	@NO ARRAYS@,9&200	H	7	1989	M K66 209	GEN	411
2198				W		H	1	1996	2	GEN	412
2199				BCV	*&5	H	5	1997	B !06 @	GEN	412
2200				B	*&3	H	4	2002	B !08	GEN	412
2201				CC	1	H	2	2006	F 1	GEN	412
2202	16	89	EOJ	CC	L	H	2	2008	F L		412
2203	16	90		FENDX	E,GM,,,,,SYS2,VARBL1	H				MACRO	
2204				BSS	333,E	H	5	2010	B 333 E	GEN	412
2205				SBR	TCLEAR,SYS2	H	7	2015	H 710 K73	GEN	412
2206				LCA	@VARBL1@,110	H	7	2022	L K72 110	GEN	413
2207				B	MONTER	H	4	2029	B 700	GEN	413
2208	16	91	MOVE	MCW	0&X2,NXTOP	H	7	2033	M 0!0 !52		413
2209	16	92		MCW		H	1	2040	M		413
2210	16	93		B	INITL	H	4	2041	B 891		413
2211	16	94	COUNT	DCW	04280	H	5	2049			413
2212	16	95	NXTOP	DSA	4279	H	3	2052	27Z		413
2213	16	96		DCW	04617	H	5	2057			414
2214	16	97	AFORM	DSA	4616	H	3	2060	61W		414
2215	16	98		DCW	02016	H	5	2065			414
2216	16	99	LIMIO	DSA	2015	H	3	2068	!15		414
2217	17	00		DCW	01697	H	5	2073			414
2218	17	01	NOIO	DSA	1696	H	3	2076	W96		414
2219	17	02	RELOC	DCW	00000	H	5	2081			414
2220	17	03	ADJST	DSA	000	H	3	2084	000		415
2221	17	04	GM	DC	@}@	H	1	2085		GMARK	415
2222	17	05	PROD	DCW	#6	H	6	2091			415
2223	17	06		DC	#3	H	3	2094			415
2224	17	07	LGSW	DC	#1	H	1	2095			415
2225	17	08	BLANK	DCW	#01	H	1	2096			415
2226	17	09		ORG	*	H			2097		
2227				LTORG	* WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG	H			2097		
2228				DCW	#1	H	1	2097		GEN	415
2229			ZONES	DC	9	H	1	2098		GEN	415
2230				DCW	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	H	31	2129		GEN	416
			*	LTORG*						GEN	
				DCW	&2	H	1	2130		LIT	416
			ACCUMH	DCW	#06	H	6	2136		AREA	416
			LINK H	DCW	#03	H	3	2139		AREA	417
				DCW	&1	H	1	2140		LIT	417
			BOX H	DCW	#01	H	1	2141		AREA	417
				DCW	@IJKLMN@	H	6	2147		LIT	417
				DCW	@0@	H	1	2148		LIT	417
				DCW	@ @	H	3	2151		LIT	417
			HOLD1H	DCW	#03	H	3	2154		AREA	417
				DCW	@IJKLMN@	H	6	2160		LIT	418
				DCW	@A@	H	1	2161		LIT	418
				DCW	@J@	H	1	2162		LIT	418
			)0M050	DCW	#02	H	2	2164		AREA	418
			)0L050	DCW	#02	H	2	2166		AREA	418

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@A0@	H	2	2168		LIT	418
				DCW	@?4@	H	2	2170		LIT	418
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	H	36	2206		LIT	419
				DCW	@STORAGE ASSIGNMENT-ARRAYS & EQUATED VARIABLES@	H	45	2251		LIT	421
			)0L053	DCW	#01	H	1	2252		AREA	421
			)0M054	DCW	#02	H	2	2254		AREA	421
			)0L054	DCW	#02	H	2	2256		AREA	421
				DCW	@-@	H	1	2257		LIT	421
				DCW	@NO ARRAYS@	H	9	2266		LIT	422
				DCW	@VARBL1@	H	6	2272		LIT	422
2231	17	10	SYS2	DCW	@}@	H	1	2273		GMARK	422
2232	17	11		XFR	TSTIO	H			B 838		423

SYSTEM AND WORK GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2233	17	12		JOB	1401 FORTRAN VARIABLES PHASE ONE	H					
2234	17	13		FBEGN	VARBL 1,X1,,X2,R,X3,R,I	H				MACRO	
2235				SFX	I	I				GEN	
2236		110		DCW	@VARBL 1@	I	7	0110		GEN	426
2237		X1		EQU	089	I		0089		GEN	
2238		X2		EQU	094	I		0094		GEN	
2239		094		DCW	000	I	3	0094		GEN	427
2240		096		DC	00	I	2	0096		GEN	427
2241		X3		EQU	099	I		0099		GEN	
2242		099		DCW	000	I	3	0099		GEN	427
2243		100		DC	0	I	1	0100		GEN	427
2244	17	14		ORG	XBEGIN	I			0838		
2245	17	15			* REPLACE ARRAY NAMES IN SOURCE PROGRAM WITH ADDRESSES,						
2246	17	16			* PROCESS SUBSCRIPTS						
2247	17	17			* MARK SIMPLE VARIABLES WITH A DELTA FOR VARBL, PHASE 2						
2248	17	18	INITL	MCW	083,X2	I	7	0838	M 083 094		428
2249	17	19		MCW	X2,DRESS#3	I	7	0845	M 094 036		428
2250	17	20		SW	GM	I	4	0852	, N55		428
2251	17	21	START	BCE	OUT,000&X1, BLANK	I	8	0856	B J38 0 0		428
2252	17	22		LCA	000&X1,WORK#10	I	7	0864	L 0 0 046		428
2253	17	23		SAR	X1	I	4	0871	Q 089		428
2254	17	24		SBR	X3	I	4	0875	H 099		429
2255	17	25		LCA	WORK,000&X2	I	7	0879	L 046 0!0		429
2256	17	26		SBR	X2	I	4	0886	H 094		429
2257	17	27		BCE	FMAT,CODE-3,F	I	8	0890	B M70 043 F		429
2258	17	28		SW	WORK-3	I	4	0898	, 043		429
2259	17	29		MCW	CODE-3,*&8	I	7	0902	M 043 916		429
2260	17	30		BCE	LIST,@3L5UP61@,0 D-CHAR MODIFIED	I	8	0909	B J68 053 0		430
2261	17	31		CHAIN	6	I				MACRO	
2262				BCE		I	1	0917	B	GEN	430
2263				BCE		I	1	0918	B	GEN	430
2264				BCE		I	1	0919	B	GEN	430
2265				BCE		I	1	0920	B	GEN	430
2266				BCE		I	1	0921	B	GEN	430
2267				BCE		I	1	0922	B	GEN	430
2268	17	32		MCW	@N@,SWCHA	I	7	0923	M 054 956		431
2269	17	33		MCW	@N@,SWCHB	I	7	0930	M 054 T32		431
2270	17	34			* SEARCH FOR ALPHA CHARACTER WHICH MIGHT BE VARIABLE NAME						
2271	17	35	FIND	MCW	000&X1,BOX#1	I	7	0937	M 0 0 055		431
2272	17	36		SAR	X1	I	4	0944	Q 089		431
2273	17	37		BWZ	FIND,BOX,2 NO ZONE, NUMERICS AND EQUALS	I	8	0948	V 937 055 2		431
2274	17	38	SWCHA	NOP	RTPAR	I	4	0956	N K12		431
2275	17	39	MDIFY	MCW	BOX,*&8	I	7	0960	M 055 974		432
2276	17	40		BCE	FIND,@@*-&.%) ,@,0 D CHAR MODIFIED	I	8	0967	B 937 063 0		432
2277	17	41		CHAIN	7	I				MACRO	
2278				BCE		I	1	0975	B	GEN	432
2279				BCE		I	1	0976	B	GEN	432
2280				BCE		I	1	0977	B	GEN	432
2281				BCE		I	1	0978	B	GEN	432
2282				BCE		I	1	0979	B	GEN	432

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2283				BCE		I	1	0980	B	GEN	433
2284				BCE		I	1	0981	B	GEN	433
2285	17	42		BCE	CKXPN,BOX,E	I	8	0982	B K99 O55 E		433
2286	17	43		BCE	SW1,BOX,}	I	8	0990	B /19 O55 }	GMARK	433
2287	17	44		MCW	2&X1,BOX2#1	I	7	0998	M 0 2 O64		433
2288	17	45		MCW	BOX2,*&8	I	7	1005	M O64  19		433
2289	17	46		BCE	SW1,MRKRS,0	I	8	1012	B /19 N01 0		434
2290	17	47		CHAIN	8	I				MACRO	
2291				BCE		I	1	1020	B	GEN	434
2292				BCE		I	1	1021	B	GEN	434
2293				BCE		I	1	1022	B	GEN	434
2294				BCE		I	1	1023	B	GEN	434
2295				BCE		I	1	1024	B	GEN	434
2296				BCE		I	1	1025	B	GEN	434
2297				BCE		I	1	1026	B	GEN	435
2298				BCE		I	1	1027	B	GEN	435
2299	17	48		BCE	SW1,CODE-3,D	I	8	1028	B /19 O43 D		435
2300	17	49	VSERR	FMESG	9,VARIABLE SYNTAX,CODE,16	I				MACRO	
2301			VSERR	CS	332	I	4	1036	/ 332	GEN	435
2302				CS		I	1	1040	/	GEN	435
2303				SW	FAILSW	I	4	1041	, 184	GEN	435
2304				MN	CODE,224&16	I	7	1045	D O46 240	GEN	435
2305				MN		I	1	1052	D	GEN	436
2306				MN		I	1	1053	D	GEN	436
2307				MCW	@ERROR 9 - VARIABLE SYNTAX, STATEMENT @	I	4	1054	M P01	GEN	436
2308				W		I	1	1058	2	GEN	436
2309				BCV	*&5	I	5	1059	B  68 @	GEN	436
2310				B	*&3	I	4	1064	B  70	GEN	436
2311				CC	1	I	2	1068	F 1	GEN	436
2312	17	50		BW	SYN2R,SYN2S	I	8	1070	V Z38 N02 1		437
2313	17	51		SBR	X1,1&X1	I	7	1078	H 089 0 1		437
2314	17	52		SW	ERRSW	I	4	1085	, N04		437
2315	17	53		B	LIMIT	I	4	1089	B /71		437
2316	17	54	RTNA	LCA	@0?0@,0&X2	I	7	1093	L P04 0!0		437
2317	17	55		SBR	X2	I	4	1100	H 094		437
2318	17	56		SBR	X3,1&X1	I	7	1104	H 099 0 1		438
2319	17	57		SBR	X1	I	4	1111	H 089		438
2320	17	58		B	BOTM	I	4	1115	B U45		438
2321	17	59	SW1	SW	1&X1	I	4	1119	, 0 1		438
2322	17	60	*SHIFT	ALL	BUT VARIABLE						
2323	17	61		LCA	00&X3,000&X2	I	7	1123	L 0?0 0!0		438
2324	17	62		SBR	X2	I	4	1130	H 094		438
2325	17	63		CW	001&X1	I	4	1134	) 0 1		438
2326	17	64		SBR	X3,1&X1	I	7	1138	H 099 0 1		439
2327	17	65		SBR	KLOBR&6,2&X1	I	7	1145	H U74 0 2		439
2328	17	66		MCW	@:@	I	4	1152	M P05		439
2329	17	67		BCE	NOMO,BOX,}	I	8	1156	B K43 O55 }	GMARK	439
2330	17	68		ZA	&1,COUNT#2	I	7	1164	? P06 P08		439
2331	17	69	* SCAN TO	BOTTOM OF	VARIABLE						
2332	17	70	LIMIT	MCW	000&X1,BOX	I	7	1171	M 0 0 O55		440



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2333	17	71		SAR	X1	I	4	1178	Q 089		440
2334	17	72		MCW	BOX, *&8	I	7	1182	M 055 /96		440
2335	17	73		BCE	LOOK,MRKRS,0	I	8	1189	B S16 N01 0		440
2336	17	74		CHAIN	8	I				MACRO	
2337				BCE		I	1	1197	B	GEN	440
2338				BCE		I	1	1198	B	GEN	440
2339				BCE		I	1	1199	B	GEN	440
2340				BCE		I	1	1200	B	GEN	441
2341				BCE		I	1	1201	B	GEN	441
2342				BCE		I	1	1202	B	GEN	441
2343				BCE		I	1	1203	B	GEN	441
2344				BCE		I	1	1204	B	GEN	441
2345	17	75		A	&1,COUNT	I	7	1205	A P06 P08		441
2346	17	76		B	LIMIT	I	4	1212	B /71		441
2347	17	77	LOOK	BW	RTNB,ERVBL	I	8	1216	V Z50 000 1		442
2348	17	78		BW	RTNA,ERRSW	I	8	1224	V  93 N04 1		442
2349	17	79		SW	002&X1	I	4	1232	, 0 2		442
2350	17	80		SAR	HEX1#3	I	4	1236	Q P11		442
2351	17	81	TLU	MCW	DRESS,X1 ADDRESS OF ARRAY TABLE	I	7	1240	M 036 089		442
2352	17	82		BCE	EQUAL,BOX,# EQUAL	I	8	1247	B K54 055 #		442
2353	17	83		*DETERMINE IF VARIABLE IS AN ARRAY NAME							
2354	17	84	LOOP	BCE	NOTIN,002&X1, BLANK	I	8	1255	B T81 0 2		443
2355	17	85	MCM2	MCM	2&X1	I	4	1263	P 0 2		443
2356	17	86		MN		I	1	1267	D		443
2357	17	87		MN		I	1	1268	D		443
2358	17	88		SAR	X1	I	4	1269	Q 089		443
2359	17	89		BCE	MCM2,1&X1,	I	8	1273	B S63 0 1		443
2360	17	90		C	000&X3,00&X1	I	7	1281	C 0?0 0 0		443
2361	17	91		BU	LOOP	I	5	1288	B S55 /		444
2362	17	92		C	000&X1,000&X3	I	7	1293	C 0 0 0?0		444
2363	17	93		BU	LOOP	I	5	1300	B S55 /		444
2364	17	94	* MOVE	X1	POINTER TO HI ADDRESS OF VARIABLE						
2365	17	95		C	0&X1	I	4	1305	C 0 0		444
2366	17	96		CHAIN	3	I				MACRO	
2367				C		I	1	1309	C	GEN	444
2368				C		I	1	1310	C	GEN	444
2369				C		I	1	1311	C	GEN	444
2370	17	97		SAR	X1	I	4	1312	Q 089		445
2371	17	98	* CHECK TO	SEE IF THERE ARE ANY SUBSCRIPTS							
2372	17	99		BW	SBRAY,SUBSW	I	8	1316	V X43 N03 1		445
2373	18	00		BCE	SBSCR,BOX,% LEFT PAREN	I	8	1324	B V83 055 %		445
2374	18	01	SWCHB	NOP	ARRAY	I	4	1332	N T58		445
2375	18	02	TUNO	LCA	9&X1,1&X2	I	7	1336	L 0 9 0!1		445
2376	18	03		SBR	X2	I	4	1343	H 094		445
2377	18	04	RESTO	MCW	HEX1,X1	I	7	1347	M P11 089		446
2378	18	05		B	BOTM	I	4	1354	B U45		446
2379	18	06	ARRAY	LCA	9&X1,1&X2	I	7	1358	L 0 9 0!1		446
2380	18	07		LCA	3&X1	I	4	1365	L 0 3		446
2381	18	08		SBR	X2	I	4	1369	H 094		446
2382	18	09		CW	4&X2	I	4	1373	) 0!4		446

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2383	18	10		B	RESTO	I	4	1377	B T47		446
2384	18	11	NOTIN	MCW	HEX1,X1	I	7	1381	M P11 089		447
2385	18	12		BW	LOD2,SUBSW	I	8	1388	V X67 N03 1		447
2386	18	13		BCE	RUFN,BOX,%	I	8	1396	B U87 055 %		447
2387	18	14		LCA	@_@,1&X2	I	7	1404	L P13 0!1		447
2388	18	15		SBR	X2	I	4	1411	H 094		447
2389	18	16	SLIDE	LCA	000&X3,001&X2	I	7	1415	L 0?0 0!1		448
2390	18	17		SBR	X2	I	4	1422	H 094		448
2391	18	18		CW	001&X2	I	4	1426	) 0!1		448
2392	18	19		S	&2,COUNT	I	7	1430	S P14 P08		448
2393	18	20		BWZ	LOAD1,COUNT,K	I	8	1437	V K80 P08 K		448
2394	18	21	BOTM	CW	001&X1	I	4	1445	) 0!1		448
2395	18	22		SAR	X3	I	4	1449	Q 099		448
2396	18	23	BOTM2	CW	1&X2	I	4	1453	) 0!1		449
2397	18	24		CW	FEWSW,ERRSW	I	7	1457	) N98 N04		449
2398	18	25		CW	TUSW	I	4	1464	) N99		449
2399	18	26	KLOBR	BCE	FIND,0,;	I	8	1468	B 937 000 ;		449
2400	18	27		MCW	@\$,X1	I	7	1476	M P15 089		449
2401	18	28		B	OUT	I	4	1483	B J38		449
2402	18	29	* IF	@SUBSCRIPTED@	VARIABLE NOT FUNCTION THEN ERROR						
2403	18	30	RUFN	BCE	SLIDE,1&X1,F	I	8	1487	B U15 0!1 F		450
2404	18	31		FTMSG	6,UNDEFINED ARRAY,CODE,16	I				MACRO	
2405				CS	332	I	4	1495	/ 332	GEN	450
2406				CS		I	1	1499	/	GEN	450
2407				SW	FAILSW	I	4	1500	, 184	GEN	450
2408				MN	CODE,224&16	I	7	1504	D 046 240	GEN	450
2409				MN		I	1	1511	D	GEN	450
2410				MN		I	1	1512	D	GEN	450
2411				MCW	@ERROR 6 - UNDEFINED ARRAY, STATEMENT @	I	4	1513	M P52	GEN	451
2412				W		I	1	1517	2	GEN	451
2413				BCV	*&5	I	5	1518	B V27 @	GEN	451
2414				B	*&3	I	4	1523	B V29	GEN	451
2415				CC	1	I	2	1527	F 1	GEN	451
2416	18	32		LCA	@%000@,1&X2	I	7	1529	L P56 0!1		451
2417	18	33		SBR	X2	I	4	1536	H 094		451
2418	18	34		MZ	VZONE,3&X2	I	7	1540	Y P68 0!3		452
2419	18	35	SKLOZ	BCE	FNDLZ,0&X1,)	I	8	1547	B V71 0!0 )		452
2420	18	36		BCE	NOM01,0&X1,}	I	8	1555	B K35 0!0 }	GMARK	452
2421	18	37		SBR	X1	I	4	1563	H 089		452
2422	18	38		B	SKLOZ	I	4	1567	B V47		452
2423	18	39	FNDLZ	MN	0&X1	I	4	1571	D 0!0		452
2424	18	40		SAR	X1	I	4	1575	Q 089		452
2425	18	41		B	BOTM2	I	4	1579	B U53		453
2426	18	42	* PROCESS	SUBSCRIPTS							
2427	18	43	SBSCR	ZA	00&X1,ACCUM#6	I	7	1583	? 0!0 P62		453
2428	18	44		SAR	X3	I	4	1590	Q 099		453
2429	18	45		SW	VBLSW	I	4	1594	, P79		453
2430	18	46		ZA	000&X3,ROWS#5	I	7	1598	? 0?0 P67		453
2431	18	47		ZA	005&X1,WORDL	I	7	1605	? 0!5 N87		453
2432	18	48		S	&1,ACCUM	I	7	1612	S P06 P62		454

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2433	18	49		MZ	8&X1,VZONE#1	I	7	1619	Y 0 8 P68		454
2434	18	50		MCW	HEX1,X1	I	7	1626	M P11 089		454
2435	18	51		LCA	@ \$@,001&X2	I	7	1633	L P70 0!1		454
2436	18	52		SBR	X2	I	4	1640	H 094		454
2437	18	53		MN	000&X1	I	4	1644	D 0 0		454
2438	18	54		SAR	X1	I	4	1648	Q 089		455
2439	18	55		SBR	X3	I	4	1652	H 099		455
2440	18	56	SPLIT	BWZ	CONST,000&X1,2 NO ZONE	I	8	1656	V Y51 0 0 2		455
2441	18	57	* PROCESS VARIABLE SUSCRIPTS								
2442	18	58		SBR	X1,2&X1	I	7	1664	H 089 0 2		455
2443	18	59		LCA	@*1@,000&X1	I	7	1671	L P72 0 0		455
2444	18	60		B	CONST	I	4	1678	B Y51		455
2445	18	61	DELTA	LCA	@ _@,001&X2 11-7-8 DELTA	I	7	1682	L P13 0!1		456
2446	18	62		SBR	X2	I	4	1689	H 094		456
2447	18	63	FEED	MCW	000&X1,BOX	I	7	1693	M 0 0 O55		456
2448	18	64		SAR	X1	I	4	1700	Q 089		456
2449	18	65		MCW	BOX,*&8	I	7	1704	M O55 X18		456
2450	18	66		BCE	XPAND,@-& ),@,0	I	8	1711	B X26 P76 0		456
2451	18	67		B		I	1	1719	B		456
2452	18	68		B		I	1	1720	B		457
2453	18	69		B		I	1	1721	B		457
2454	18	70		B	FEED	I	4	1722	B W93		457
2455	18	71	XPAND	SW	2&X1	I	4	1726	, 0 2		457
2456	18	72		SW		I	1	1730	,		457
2457	18	73		SAR	HEX1	I	4	1731	Q P11		457
2458	18	74		SW	SUBSW	I	4	1735	, N03		457
2459	18	75		B	TLU	I	4	1739	B S40		458
2460	18	76	SBRAY	LCA	9&X1,2&X2	I	7	1743	L 0 9 0!2		458
2461	18	77		SBR	X2	I	4	1750	H 094		458
2462	18	78		CW	1&X2	I	4	1754	) 0!1		458
2463	18	79		MN		I	1	1758	D		458
2464	18	80		SAR	X2	I	4	1759	Q 094		458
2465	18	81		B	LDCOM	I	4	1763	B X83		458
2466	18	82	LOD2	LCA	000&X3,001&X2	I	7	1767	L 0?0 0!1		459
2467	18	83		LCA		I	1	1774	L		459
2468	18	84		SBR	X2	I	4	1775	H 094		459
2469	18	85		CW	2&X2	I	4	1779	) 0!2		459
2470	18	86	LDCOM	MCW	HEX1,X1	I	7	1783	M P11 089		459
2471	18	87		CW	2&X1	I	4	1790	) 0 2		459
2472	18	88		BCE	LOAD2,003&X2,_ DELTA 11-7-8	I	8	1794	B K65 0!3 -		459
2473	18	89		LCA	@ ,@,1&X2 BLANK COMMA	I	7	1802	L P78 0!1		460
2474	18	90		SBR	X2	I	4	1809	H 094		460
2475	18	91		CW	SUBSW	I	4	1813	) N03		460
2476	18	92		BCE	PUTC,BOX,, COMMA	I	8	1817	B M38 O55 ,		460
2477	18	93		BCE	PHEW,BOX,) RT PAREN	I	8	1825	B Z54 O55 )		460
2478	18	94		MZ	BOX,WORDL	I	7	1833	Y O55 N87		460
2479	18	95	COPY	MCW	X1,X3	I	7	1840	M 089 099		461
2480	18	96		B	SPLIT	I	4	1847	B W56		461
2481	18	97	*FLIP CONSTANT								
2482	18	98	CONST	SBR	X3,VERSE-2	I	7	1851	H 099 N03		461

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2483	18	99	TURN	MCW	000&X1,BOX	I	7	1858	M 0 0 055		461
2484	19	00		SAR	X1	I	4	1865	Q 089		461
2485	19	01		MCW	BOX,002&X3	I	7	1869	M 055 0?2		461
2486	19	02		SBR	X3	I	4	1876	H 099		462
2487	19	03		BWZ	TURN,000&X1,2	I	8	1880	V Y58 0 0 2		462
2488	19	04		SBR	X1	I	4	1888	H 089		462
2489	19	05		M	WORDL,007&X3	I	7	1892	@ N87 0?7		462
2490	19	06		BCE	VARBL,001&X1,*	I	8	1899	B Z92 0 1 *		462
2491	19	07		A	007&X3,ACCUM	I	7	1907	A 0?7 P62		462
2492	19	08		BCE	PHEW,1&X1,)	I	8	1914	B Z54 0 1 )		463
2493	19	09		BCE	PUTC,1&X1,,	I	8	1922	B M38 0 1 ,		463
2494	19	10		SW	SYN2S	I	4	1930	, N02		463
2495	19	11		B	VSERR	I	4	1934	B  36		463
2496	19	12	SYN2R	CW	SYN2S	I	4	1938	) N02		463
2497	19	13		SW	ERVBL	I	4	1942	, 000		463
2498	19	14		B	LIMIT	I	4	1946	B /71		463
2499	19	15	RTNB	CW	ERVBL	I	4	1950	) 000		464
2500	19	16	* END	OF	PROCESS SUBSCRIPT						
2501	19	17	PHEW	NOP	ACCUM-7	I	4	1954	N P55		464
2502	19	18		SAR	X3	I	4	1958	Q 099		464
2503	19	19		SW	FEWSW	I	4	1962	, N98		464
2504	19	20		B	NORML	I	4	1966	B !29		464
2505	19	21	LDOLR	LCA	@\$,0&X2	I	7	1970	L P15 0!0		464
2506	19	22		SBR	X2	I	4	1977	H 094		464
2507	19	23		MZ	VZONE,3&X2	I	7	1981	Y P68 0!3		465
2508	19	24		B	BOTM	I	4	1988	B U45		465
2509	19	25	* PROCESS	VARIABLE	SUBSCRIPT						
2510	19	26	VARBL	CW	1&X1,VBLSW#1	I	7	1992	) 0 1 P79		465
2511	19	27		B	NORML	I	4	1999	B !29		465
2512	19	28		LCA	@ *,000&X2	I	7	2003	L P81 0!0		465
2513	19	29		SBR	X2	I	4	2010	H 094		465
2514	19	30		CW	001&X2	I	4	2014	) 0!1		465
2515	19	31		MCW	X1,X3	I	7	2018	M 089 099		466
2516	19	32		B	DELTA	I	4	2025	B W82		466
2517	19	33	NORML	SBR	EXIT&3	I	4	2029	H J37		466
2518	19	34	X3AND	EQU	007&X3	I		0007	X		
2519	19	35	SUBTR	S	&16000,X3AND	I	7	2033	S P86 0?7		466
2520	19	36		BWZ	SUBTR,X3AND,B	I	8	2040	V !33 0?7 B		466
2521	19	37	ADD	A	&16000,X3AND	I	7	2048	A P86 0?7		466
2522	19	38		BWZ	ADD,X3AND,K	I	8	2055	V !48 0?7 K		467
2523	19	39		BW	ALCON,FEWSW	I	8	2063	V L35 N98 1		467
2524	19	40	GET	SBR	X3,1&X3	I	7	2071	H 099 0?1		467
2525	19	41		BCE	GET,002&X3,0	I	8	2078	B !71 0?2 0		467
2526	19	42		SBR	X2,1&X2	I	7	2086	H 094 0!1		467
2527	19	43		LCA	BLNK6#6	I	4	2093	L P92		468
2528	19	44	TWIST	MCW	002&X3,BOX	I	7	2097	M 0?2 055		468
2529	19	45		SAR	X3	I	4	2104	Q 099		468
2530	19	46		MCW	BOX,000&X2	I	7	2108	M 055 0!0		468
2531	19	47		SBR	X2	I	4	2115	H 094		468
2532	19	48		BWZ	TWIST,001&X3,2	I	8	2119	V !97 0?1 2		468

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2533	19	49		MZ	BLANK,1&X2	I	7	2127	Y P87 0!1		469
2534	19	50	EXIT	B	00	I	4	2134	B 000		469
2535	19	51	OUT	FENDX	C, , , , PHSE2P, , ORGVB-1, VARBL TWO	I				MACRO	
2536			OUT	BSS	333,C	I	5	2138	B 333 C	GEN	469
2537				SBR	INITXT&3, PHSE2P	I	7	2143	H 796 849	GEN	469
2538				SBR	TCLEAR, ORGVB-1	I	7	2150	H 710 Q13	GEN	469
2539				LCA	@VARBL TWO@,110	I	7	2157	L Q01 110	GEN	469
2540				B	MONTER	I	4	2164	B 700	GEN	470
2541	19	52	LIST	MCW	@B@,SWCHA	I	7	2168	M Q02 956		470
2542	19	53		MCW	@B@,SWCHB	I	7	2175	M Q02 T32		470
2543	19	54		MCW	CODE-3,*&8	I	7	2182	M O43 J96		470
2544	19	55		BCE	TU,@1356@,0	I	8	2189	B K04 Q06 0		470
2545	19	56		CHAIN	3	I				MACRO	
2546				BCE		I	1	2197	B	GEN	470
2547				BCE		I	1	2198	B	GEN	470
2548				BCE		I	1	2199	B	GEN	471
2549	19	57		B	FIND	I	4	2200	B 937		471
2550	19	58	TU	SW	TUSW	I	4	2204	, N99		471
2551	19	59		B	FIND	I	4	2208	B 937		471
2552	19	60	RTPAR	BCE	PUTB,BOX, ) RT PAREN	I	8	2212	B K24 O55 )		471
2553	19	61		B	MDIFY	I	4	2220	B 960		471
2554	19	62	PUTB	MCW	@B@,SWCHB	I	7	2224	M Q02 T32		471
2555	19	63		B	MDIFY	I	4	2231	B 960		472
2556	19	64	NOMO1	MN	0&X2	I	4	2235	D 0!0		472
2557	19	65		SAR	X2	I	4	2239	Q 094		472
2558	19	66	NOMO	LCA	GM,001&X2	I	7	2243	L N55 0!1		472
2559	19	67		B	START	I	4	2250	B 856		472
2560	19	68	EQUAL	MCW	@N@,SWCHB	I	7	2254	M O54 T32		472
2561	19	69		B	LOOP	I	4	2261	B S55		472
2562	19	70	LOAD2	LCA	BLNK2,1&X2	I	7	2265	L P88 0!1		473
2563	19	71		SBR	X2	I	4	2272	H 094		473
2564	19	72		B	LDCOM	I	4	2276	B X83		473
2565	19	73	LOAD1	LCA	BLANK,0&X2	I	7	2280	L P87 0!0		473
2566	19	74		SBR	X2	I	4	2287	H 094		473
2567	19	75		CW	001&X2	I	4	2291	) 0!1		473
2568	19	76		B	BOTM	I	4	2295	B U45		473
2569	19	77	CKXPB	BCE	SW1,2&X1,#	I	8	2299	B /19 0 2 #		474
2570	19	78		BCE	SW1,2&X1,@	I	8	2307	B /19 0 2 @		474
2571	19	79		BWZ	FIND,2&X1,2	I	8	2315	V 937 0 2 2		474
2572	19	80		BCE	FIND,2&X1,.	I	8	2323	B 937 0 2 .		474
2573	19	81		B	SW1	I	4	2331	B /19		474
2574	19	82	ALCON	MCW	7&X3,HOLD5#5	I	7	2335	M 0?7 Q11		475
2575	19	83		FPAK	HOLD5,WORK3,X3	I				MACRO	
2576				INCLD	ZONES	I				MACRO	
2577				MN	HOLD5,WORK3	I	7	2342	D Q11 N97	GEN	475
2578				MN		I	1	2349	D	GEN	475
2579				MN		I	1	2350	D	GEN	475
2580				SAR	*&4	I	4	2351	Q L58	GEN	475
2581				MCW	0,X3	I	7	2355	M 000 099	GEN	475
2582				MCW	@0@	I	4	2362	M Q12	GEN	475

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2583				A	X3	I	4	2366	A 099	GEN	476
2584				MZ	ZONES&1&X3,WORK3	I	7	2370	Y O?3 N97	GEN	476
2585				CW		I	1	2377	)	GEN	476
2586				SBR	*&7	I	4	2378	H L88	GEN	476
2587				MZ	ZONES&X3, 0	I	7	2382	Y O?2 000	GEN	476
2588	19	84		BCE	*&8,2&X2,,	I	8	2389	B M04 0!2 ,		476
2589	19	85		SBR	X2,1&X2	I	7	2397	H 094 0!1		476
2590	19	86		LCA	WORK3,1&X2	I	7	2404	L N97 0!1		477
2591	19	87		SBR	X2	I	4	2411	H 094		477
2592	19	88		CW	1&X2	I	4	2415	) 0!1		477
2593	19	89		MZ	VZONE,2&X2	I	7	2419	Y P68 0!2		477
2594	19	90		BW	BOTM,VBLSW	I	8	2426	V U45 P79 1		477
2595	19	91		B	LDOLR	I	4	2434	B Z70		477
2596	19	92	PUTC	MZ	*-4,WORDL	I	7	2438	Y M40 N87		478
2597	19	93		M	ROWS,WORDL&6	I	7	2445	@ P67 N93		478
2598	19	94		MCM	WORDL&2,WORDL-4	I	7	2452	P N89 N83		478
2599	19	95		S	WORDL,ACCUM	I	7	2459	S N87 P62		478
2600	19	96		B	COPY	I	4	2466	B Y40		478
2601	19	97	FMAT	LCA	0&X1,0&X2	I	7	2470	L 0!0 0!0		478
2602	19	98		SBR	X2	I	4	2477	H 094		479
2603	19	99		C	0&X1	I	4	2481	C 0!0		479
2604	20	00		SAR	X1	I	4	2485	Q 089		479
2605	20	01		B	START	I	4	2489	B 856		479
2606	20	02	MRKRS	DCW	@#,}*@&-%)@	I	9	2501	EQUALS,COMMA,GR MARK		479
2607	20	03	SYN2S	DC	#1	I	1	2502			479
2608	20	04	SUBSW	DC	#1	I	1	2503			479
2609	20	05	ERRSW	DC	#1	I	1	2504			479
2610	20	06	VERSE	DCW	#1	I	1	2505			479
2611	20	07		DC	#49	I	49	2554			481
2612	20	08	GM	DC	@}@	I	1	2555		GMARK	481
2613	20	09	KERR	DCW	@ERROR @	I	6	2561			481
2614	20	10	KVSTM	DCW	@ VARIABLE, STATEMENT @	I	21	2582			481
2615	20	11	WORDL	DCW	#5	I	5	2587			482
2616	20	12		DC	#6	I	6	2593			482
2617	20	13		DC	@ @ RECORD MARK	I	1	2594			482
2618	20	14	WORK3	DCW	#3	I	3	2597			482
2619	20	15	FEWSW	DC	#1	I	1	2598			482
2620	20	16	TUSW	DC	#1	I	1	2599			482
2621	20	17	ERVBL	DC	#1	I	1	2600			482
2622	20	18		ORG	*	I			2601		
2623				LTORG	* WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG	I			2601		
2624				DCW	#1	I	1	2601		GEN	482
2625			ZONES	DC	9	I	1	2602		GEN	482
2626				DCW	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	I	31	2633		GEN	483
			*	LTORG*						GEN	
			DRESSI	DCW	#03	I	3	2636		AREA	483
			WORK I	DCW	#10	I	10	2646		AREA	484
				DCW	@3L5UP61@	I	7	2653		LIT	484
				DCW	@N@	I	1	2654		LIT	484
			BOX I	DCW	#01	I	1	2655		AREA	484

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@@*-&.%),@	I	8	2663		LIT	484
			BOX2 I	DCW	#01	I	1	2664		AREA	484
				DCW	@ERROR 9 - VARIABLE SYNTAX, STATEMENT @	I	37	2701		LIT	485
				DCW	@0?0@	I	3	2704		LIT	486
				DCW	@;@	I	1	2705		LIT	486
				DCW	&1	I	1	2706		LIT	486
			COUNTI	DCW	#02	I	2	2708		AREA	486
			HEX1 I	DCW	#03	I	3	2711		AREA	486
				DCW	@_@	I	2	2713		LIT	486
				DCW	&2	I	1	2714		LIT	486
				DCW	@\$@	I	1	2715		LIT	487
				DCW	@ERROR 6 - UNDEFINED ARRAY, STATEMENT @	I	37	2752		LIT	487
				DCW	@%000@	I	4	2756		LIT	488
			ACCUMI	DCW	#06	I	6	2762		AREA	488
			ROWS I	DCW	#05	I	5	2767		AREA	488
			VZONEI	DCW	#01	I	1	2768		AREA	488
				DCW	@ \$@	I	2	2770		LIT	488
				DCW	@*1@	I	2	2772		LIT	488
				DCW	@-&),@	I	4	2776		LIT	488
				DCW	@ ,@	I	2	2778		LIT	489
			VBLSWI	DCW	#01	I	1	2779		AREA	489
				DCW	@ *@	I	2	2781		LIT	489
				DCW	&16000	I	5	2786		LIT	489
			BLNK6I	DCW	#06	I	6	2792		AREA	489
				DCW	@VARBL TWO@	I	9	2801		LIT	489
				DCW	@B@	I	1	2802		LIT	489
				DCW	@1356@	I	4	2806		LIT	490
			HOLD5I	DCW	#05	I	5	2811		AREA	490
				DCW	@0@	I	1	2812		LIT	490
2627	20	19	CODE	EQU	WORK	I		2646			
2628	20	20	BLANK	EQU	BLNK6-5	I		2787			
2629	20	21	BLNK2	EQU	BLNK6-4	I		2788			
2630	20	22		DCW	@}@	I	1	2813		GMARK	490
2631	20	23	ORGVB	EQU	*&1	I		2814			
2632	20	24	XFR		INITL	I			B 838		491

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2633	20	25		JOB	1401 FORTRAN VARIABLES PHASE TWO	I					
2634	20	26		* MOVES THE	SOURCE PROGRAM UP TO SAUCE AND COMPUTES PARAMETERS FOR						
2635	20	27		* THE	RANDOMIZER IN VARBL. PHASE 3						
2636	20	28		FBEGN	VARBL TWO,X1,R,X2,,X3,R,P	I				MACRO	
2637				SFX	P	P				GEN	
2638			110	DCW	@VARBL TWO@	P	9	0110		GEN	494
2639			X1	EQU	089	P		0089		GEN	
2640			089	DCW	000	P	3	0089		GEN	495
2641			091	DC	00	P	2	0091		GEN	495
2642			X2	EQU	094	P		0094		GEN	
2643			X3	EQU	099	P		0099		GEN	
2644			099	DCW	000	P	3	0099		GEN	496
2645			100	DC	0	P	1	0100		GEN	496
2646	20	29	SAUCE	EQU	SAUCEK	P		2700			
2647	20	30		ORG	XBEGIN	P			0838		
2648	20	31	BASE	DCW	#3	P	3	0840			497
2649	20	32	MAX	DCW	#4	P	4	0844			497
2650	20	33		DC	#1	P	1	0845			497
2651	20	34	UPLIM	DCW	#3	P	3	0848			497
2652	20	35	NXBTM	EQU	083	P		0083			
2653	20	36	PHSE2	MCW	NXBTM,X3	P	7	0849	M 083 099		497
2654	20	37		BCE	FQUIT,X1,\$	P	8	0856	B /97 089 \$		497
2655	20	38		SBR	NOMO#3,2&X3	P	7	0864	H T42 0?2		497
2656	20	39		MCW	X2,X3	P	7	0871	M 094 099		498
2657	20	40	CLR1	CS	000&X3	P	4	0878	/ 0?0		498
2658	20	41		SBR	X3	P	4	0882	H 099		498
2659	20	42		C	X3,&SAUCE-1	P	7	0886	C 099 T45		498
2660	20	43		BU	CLR1	P	5	0893	B 878 /		498
2661	20	44		SBR	X1,SAUCE-1	P	7	0898	H 089 099		498
2662	20	45		* SHIFT	SOURCE PROGRAM UP TO COMPILER PROGRAM						
2663	20	46		MOVUP	X2,X1,NOMO,ALL,	P				MACRO	
2664				MN	0&X1	P	4	0905	D 0 0	GEN	498
2665				SAR	X1	P	4	0909	Q 089	GEN	499
2666			)0J065	MCM	0&X2	P	4	0913	P 0!0	GEN	499
2667				SAR	)0L065&6	P	4	0917	Q 939	GEN	499
2668				MCM	0&X2,1&X1	P	7	0921	P 0!0 0 1	GEN	499
2669				MN		P	1	0928	D	GEN	499
2670				SBR	X1	P	4	0929	H 089	GEN	499
2671			)0L065	SBR	X2,0	P	7	0933	H 094 000	GEN	499
2672				BCE	)0J065,0&X1,	P	8	0940	B 913 0 0	GEN	500
2673				MN	0&X2	P	4	0948	D 0!0	GEN	500
2674				CW		P	1	0952	)	GEN	500
2675				SW	0&X1	P	4	0953	, 0 0	GEN	500
2676				C	X2,NOMO	P	7	0957	C 094 T42	GEN	500
2677				BU	)0J065	P	5	0964	B 913 /	GEN	500
2678	20	47		CW	0&X2	P	4	0969	) 0!0		500
2679	20	48		CW		P	1	0973	)		501
2680	20	49		SBR	BASE,2&X1	P	7	0974	H 840 0 2		501
2681	20	50		MN	TWO9,BASE	P	7	0981	D T07 840		501
2682	20	51		MN		P	1	0988	D		501



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2683	20	52		MCW	PARAM&2,X3	P	7	0989	M 688 099		501
2684	20	53		MN	000&X3	P	4	0996	D 0?0		501
2685	20	54		SW		P	1	1000	,		501
2686	20	55		SAR	NXB TM	P	4	1001	Q 083		502
2687	20	56		SBR	X3	P	4	1005	H 099		502
2688	20	57	* CLEAR BALANCE OF CORE								
2689	20	58	CLR2	CS	000&X3	P	4	1009	/ 0?0		502
2690	20	59		SBR	X3	P	4	1013	H 099		502
2691	20	60		C	X3,BASE	P	7	1017	C 099 840		502
2692	20	61		BU	CLR2	P	5	1024	B  09 /		502
2693	20	62		MCW	@<@,0&X3 12-6-8	P	7	1029	M T46 0?0		502
2694	20	63	* DIVIDE REST OF CORE FOR TABLES RATIO 3 TO 7								
2695	20	64		MCW	NXB TM,LOC	P	7	1036	M 083 T05		503
2696	20	65		B	UNPAK	P	4	1043	B S31		503
2697	20	66		MCW	NUM#5,MAX&1	P	7	1047	M T51 845		503
2698	20	67		MCW	BASE,LOC	P	7	1054	M 840 T05		503
2699	20	68		B	UNPAK	P	4	1061	B S31		503
2700	20	69		S	NUM,MAX&1	P	7	1065	S T51 845		503
2701	20	70		A	MAX,ACCUM#6	P	7	1072	A 844 T57		504
2702	20	71		A	ACCUM	P	4	1079	A T57		504
2703	20	72		A	MAX,ACCUM 3*MAX IN ACCUM	P	7	1083	A 844 T57		504
2704	20	73	* 1/10 OF NXBTM-BASE IN MAX								
2705	20	74		A	NUM,ACCUM	P	7	1090	A T51 T57		504
2706	20	75		MCW	ACCUM-3,X3	P	7	1097	M T54 099		504
2707	20	76		A	X3	P	4	1104	A 099		504
2708	20	77		MZ	ZONES&X3,ACCUM-2	P	7	1108	Y T?8 T55		505
2709	20	78		MZ	ZONES&1&X3,ACCUM	P	7	1115	Y T?9 T57		505
2710	20	79		MCW	ACCUM,X3	P	7	1122	M T57 099		505
2711	20	80		SW	002&X3	P	4	1129	, 0?2		505
2712	20	81		MCW	@<@ 12-6-8	P	4	1133	M T46		505
2713	20	82		SBR	UPLIM	P	4	1137	H 848		505
2714	20	83		MCW	X1,X2	P	7	1141	M 089 094		506
2715	20	84		MN	0&X2	P	4	1148	D 0!0		506
2716	20	85		SAR	X1	P	4	1152	Q 089		506
2717	20	86		FENDX	C,, ,WORK5J-4,PHSE3J,WORK5J,SYS2,VARBL TRI	P				MACRO	
2718				BSS	333,C	P	5	1156	B 333 C	GEN	506
2719				SBR	INITAP&6,WORK5J-4	P	7	1161	H 786 849	GEN	506
2720				SBR	BCLEAR	P	4	1168	H 833	GEN	506
2721				SBR	INITXT&3,PHSE3J	P	7	1172	H 796 857	GEN	506
2722				SBR	TCLEAR,SYS2	P	7	1179	H 710 U05	GEN	507
2723				LCA	@VARBL TRI@,110	P	7	1186	L T66 110	GEN	507
2724				B	MONTER	P	4	1193	B 700	GEN	507
2725	20	87	FQUIT	FQUIT		P				MACRO	
2726			FQUIT	CS	332	P	4	1197	/ 332	GEN	507
2727				CS		P	1	1201	/	GEN	507
2728				CC	1	P	2	1202	F 1	GEN	507
2729				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	P	7	1204	M U02 270	GEN	507
2730				W		P	1	1211	2	GEN	508
2731				CC	1	P	2	1212	F 1	GEN	508
2732				BCE	*&6,MONTOR,1	P	8	1214	B S27 769 1	GEN	508

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2733				RWD	1	P	5	1222	U %U1 R	GEN	508
2734				H	*-3	P	4	1227	. S27	GEN	508
2735	20	88	UNPAK	SBR	EXIT&3	P	4	1231	H T00		508
2736	20	89		MN	LOC,NUM	P	7	1235	D T05 T51		508
2737	20	90		MN		P	1	1242	D		509
2738	20	91		MN		P	1	1243	D		509
2739	20	92		MCW		P	1	1244	M		509
2740	20	93		MZ	LOC,TWO9	P	7	1245	Y T05 T07		509
2741	20	94		MZ	LOC-2,TWO9-1	P	7	1252	Y T03 T06		509
2742	20	95		NOP	ZONES-3	P	4	1259	N T05		509
2743	20	96		SAR	X3	P	4	1263	Q 099		509
2744	20	97	COMP	C	004&X3,TWO9	P	7	1267	C 0?4 T07		510
2745	20	98		SAR	X3	P	4	1274	Q 099		510
2746	20	99		A	&1,NUM-3	P	7	1278	A U03 T48		510
2747	21	00		BU	COMP	P	5	1285	B S67 /		510
2748	21	01		MZ	BLANK#1,NUM-3	P	7	1290	Y U04 T48		510
2749	21	02	EXIT	B	000	P	4	1297	B 000		510
2750	21	03	LOC	DCW	@0J @	P	5	1305			510
2751	21	04	TWO9	DCW	@99@	P	2	1307			511
2752	21	05	ZONES	DC	@9@	P	1	1308			511
2753	21	06		DC	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	P	31	1339			511
2754	21	07		LTORG	*	P			1340		
			NOMO P	DCW	#03	P	3	1342		AREA	511
				DCW	&SAUCEP-1	P	3	1345	099	ADCON	512
				DCW	@<@	P	1	1346		LIT	512
			NUM P	DCW	#05	P	5	1351		AREA	512
			ACCUMP	DCW	#06	P	6	1357		AREA	512
				DCW	@VARBL TRI@	P	9	1366		LIT	512
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	P	36	1402		LIT	513
				DCW	&1	P	1	1403		LIT	513
			BLANKP	DCW	#01	P	1	1404		AREA	513
2755	21	08		LTORG	*	P			1405		
2756	21	09	SYS2	DCW	@}@	P	1	1405		GMARK	513
2757	21	10		XFR	PHSE2	P			B 849		515

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2758	21	11		JOB	1401 FORTRAN VARIABLES PHASE THREE	P					
2759	21	12		FBEGN	VARBL TRI,X1,,X2,,X3,R,J	P				MACRO	
2760				SFX	J	J				GEN	
2761		110		DCW	@VARBL TRI@	J	9	0110		GEN	518
2762		X1		EQU	089	J		0089		GEN	
2763		X2		EQU	094	J		0094		GEN	
2764		X3		EQU	099	J		0099		GEN	
2765		099		DCW	000	J	3	0099		GEN	519
2766		100		DC	0	J	1	0100		GEN	519
2767	21	13		* DEFINES VARIABLES IN SOURCE PROGRAM							
2768	21	14		ORG	XBEGIN	J			0838		
2769	21	15	BASE	DS	3	J		0840			
2770	21	16	MAX	DS	4	J		0844			
2771	21	17	UPLIM	DS	4	J		0848			
2772	21	18	NXTOP	EQU	086	J		0086			
2773	21	19	NXBTM	EQU	083	J		0083			
2774	21	20	WORK5	DCW	#5	J	5	0853			520
2775	21	21	SAVE2	DCW	#3	J	3	0856			520
2776	21	22	PHSE3	MESSG	@STORAGE ASSIGNMENT - SIMPLE VARIABLES@,37,L,J	J				MACRO	
2777			PHSE3	CC	L	J	2	0857	F L	GEN	520
2778				CS	332	J	4	0859	/ 332	GEN	520
2779				CS		J	1	0863	/	GEN	520
2780				MCW	@STORAGE ASSIGNMENT - SIMPLE VARIABLES@,37&200	J	7	0864	M  47 237	GEN	520
2781				W		J	1	0871	2	GEN	520
2782				CC	J	J	2	0872	F J	GEN	521
2783	21	23		MCW	@ @,SAUCEK-1	J	7	0874	M  48 099		521
2784	21	24		MCW	X2,SAVE2	J	7	0881	M 094 856		521
2785	21	25		UNPAK	NXTOP,WORK5	J				MACRO	
2786				S	)0M070#2	J	4	0888	S  50	GEN	521
2787				S	)0L070#2	J	4	0892	S  52	GEN	521
2788				MZ	NXTOP,)0M070-1	J	7	0896	Y 086  49	GEN	521
2789				MZ	NXTOP-2,)0L070-1	J	7	0903	Y 084 51	GEN	521
2790		)0J070	BWZ	)0K070,)0L070-1, 2	J	8	0910	V 929  51 2	GEN	522	
2791			A	@A0@,)0L070	J	7	0918	A  54  52	GEN	522	
2792			B	)0J070	J	4	0925	B 910	GEN	522	
2793		)0K070	BWZ	)0P070,)0M070-1, 2	J	8	0929	V 948  49 2	GEN	522	
2794			A	@?4@,)0M070	J	7	0937	A  56  50	GEN	522	
2795			B	)0K070	J	4	0944	B 929	GEN	522	
2796		)0P070	A	)0L070-1,)0M070	J	7	0948	A  51  50	GEN	523	
2797			MCW	NXTOP,WORK5	J	7	0955	M 086 853	GEN	523	
2798			MCW	)0M070	J	4	0962	M  50	GEN	523	
2799			ZA	WORK5	J	4	0966	? 853	GEN	523	
2800			MZ	*-4, WORK5	J	7	0970	Y 972 853	GEN	523	
2801	21	26		FENDX	C,,PHSE3,,PHSE3,SAUCEK-1,VARBL QUAD	J				MACRO	
2802				BSS	333,C	J	5	0977	B 333 C	GEN	523
2803			SBR	INITAP&6,PHSE3	J	7	0982	H 786 857	GEN	524	
2804			SBR	BCLEAR	J	4	0989	H 833	GEN	524	
2805			SBR	TCLEAR,SAUCEK-1	J	7	0993	H 710 099	GEN	524	
2806			LCA	@VARBL QUAD@,110	J	7	1000	L  66 110	GEN	524	
2807			B	MONTER	J	4	1007	B 700	GEN	524	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2808	21	27		LTORG	*	J			1011		
				DCW	@STORAGE ASSIGNMENT - SIMPLE VARIABLES@	J	37	1047		LIT	525
				DCW	@ @	J	1	1048		LIT	525
			)0M070	DCW	#02	J	2	1050		AREA	526
			)0L070	DCW	#02	J	2	1052		AREA	526
				DCW	@A0@	J	2	1054		LIT	526
				DCW	@?4@	J	2	1056		LIT	526
				DCW	@VARBL QUAD@	J	10	1066		LIT	526
2809	21	28		DCW	@}@	J	1	1067		GMARK	526
2810	21	29		XFR	PHSE3	J			B 857		527

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2811	21	30		JOB	1401 FORTRAN VARIABLES PHASE FOUR	J					
2812	21	31	110	DCW	@VARBL QUAD@	J	10	0110			530
2813	21	32		ORG	PHSE3	J			0857		
2814	21	33	BEGIN	MCW	BASE,BUMP&3	J	7	0857	M 840 /89		531
2815	21	34		MZ	@S@,BUMP&2	J	7	0864	Y K82 /88		531
2816	21	35		SW	GM	J	4	0871	, M93		531
2817	21	36		CW	ISFSW	J	4	0875	) L10		531
2818	21	37	START	BCE	OUT,000&X1,	J	8	0879	B !57 0 0	BLANK	531
2819	21	38		MCW	000&X1,CODE#4	J	7	0887	M 0 0 K86		531
2820	21	39		LCA	000&X1,WORK#10	J	7	0894	L 0 0 K96		532
2821	21	40		SAR	X1	J	4	0901	Q 089		532
2822	21	41		SBR	X3	J	4	0905	H 099		532
2823	21	42		LCA	WORK,000&X2	J	7	0909	L K96 0!0		532
2824	21	43		SBR	X2	J	4	0916	H 094		532
2825	21	44		BCE	PASS,CODE-3, /	J	8	0920	B J63 K83 /	BAD STATEMENT	532
2826	21	45		BCE	PASS,CODE-3, F	J	8	0928	B J63 K83 F		533
2827	21	46		MCW	@01@,FNCTR#2	J	7	0936	M K98 L00		533
2828	21	47	* DETERMINE	IF IN RUN ONE OF RUN TWO							
2829	21	48	SWCHE	B	TEST	J	4	0943	B W71		533
2830	21	49	FIND2	BCE	SEEK,000&X1, _	J	8	0947	B 981 0 0 _	DELTA 11-7-8	533
2831	21	50		CHAIN	5	J				MACRO	
2832				BCE		J	1	0955	B	GEN	533
2833				BCE		J	1	0956	B	GEN	533
2834				BCE		J	1	0957	B	GEN	533
2835				BCE		J	1	0958	B	GEN	534
2836				BCE		J	1	0959	B	GEN	534
2837	21	51		BCE	PASS,000&X1, }	J	8	0960	B J63 0 0 }	GROUP MARK	534
2838	21	52		CHAIN	5	J				MACRO	
2839				BCE		J	1	0968	B	GEN	534
2840				BCE		J	1	0969	B	GEN	534
2841				BCE		J	1	0970	B	GEN	534
2842				BCE		J	1	0971	B	GEN	534
2843				BCE		J	1	0972	B	GEN	535
2844	21	53		SBR	X1	J	4	0973	H 089		535
2845	21	54		B	FIND2	J	4	0977	B 947		535
2846	21	55	SEEK	BCE	FOUND,000&X1, _	J	8	0981	B 997 0 0 _	DELTA 11-7-8	535
2847	21	56		SBR	X1	J	4	0989	H 089		535
2848	21	57		B	SEEK	J	4	0993	B 981		535
2849	21	58	FOUND	SW	001&X1	J	4	0997	, 0 1		535
2850	21	59		CW		J	1	1001	)	DUMMY	536
2851	21	60		CW		J	1	1002	)	DUMMY	536
2852	21	61		CW		J	1	1003	)	DUMMY	536
2853	21	62		SAR	X1	J	4	1004	Q 089		536
2854	21	63		BCE	COPY,004&X1, }	J	8	1008	B  31 0 4 }	GROUP MK, FIRST CHAR MAY BE DELTA	536
2855	21	64		LCA	000&X3,000&X2	J	7	1016	L 0?0 0!0		536
2856	21	65		SBR	X2	J	4	1023	H 094		536
2857	21	66		CW	001&X2	J	4	1027	) 0!1		537
2858	21	67	COPY	SBR	X3,2&X1	J	7	1031	H 099 0 2		537
2859	21	68	* SCAN FOR	ENDING CHARACTER							
2860	21	69	LIMIT	MCW	000&X1,BOX#1	J	7	1038	M 0 0 L01		537

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2861	21	70		SAR	X1	J	4	1045	Q 089		537
2862	21	71		MCW	BOX, *&8	J	7	1049	M L01  63		537
2863	21	72		BCE	RANDM, @@} #*-& ), @, 0	J	8	1056	B  75 L09 0		537
2864	21	73		CHAIN	7	J				MACRO	
2865				BCE		J	1	1064	B	GEN	537
2866				BCE		J	1	1065	B	GEN	538
2867				BCE		J	1	1066	B	GEN	538
2868				BCE		J	1	1067	B	GEN	538
2869				BCE		J	1	1068	B	GEN	538
2870				BCE		J	1	1069	B	GEN	538
2871				BCE		J	1	1070	B	GEN	538
2872	21	74		B	LIMIT	J	4	1071	B  38		538
2873	21	75	RANDM	BCE	SWCHF, BOX, #	J	8	1075	B Y06 L01 #		539
2874	21	76		BCE	*&5, 2&X1, ]	J	8	1083	B  95 0  2 ]		539
2875	21	77		B	*&5	J	4	1091	B  99		539
2876	21	78		SW	ISFSW#1	J	4	1095	, L10		539
2877	21	79	SWCHA	NOP	BOTM	J	4	1099	N J93		539
2878	21	80	* RANDOMIZING VARIABLE NAME								
2879	21	81	MIXUP	SW	002&X1	J	4	1103	, 0  2		539
2880	21	82		ZA	000&X3, MOD#4	J	7	1107	? 0?0 L14		539
2881	21	83		A	004&X1, MOD	J	7	1114	A 0  4 L14		540
2882	21	84		MZ	@ @, MOD	J	7	1121	Y L18 L14		540
2883	21	85		MZ		J	1	1128	Y		540
2884	21	86		MZ		J	1	1129	Y		540
2885	21	87		MCW	3 DIGIT NO. IN MOD	J	1	1130	M		540
2886	21	88	SUBTR	S	MAX, MOD	J	7	1131	S 844 L14		540
2887	21	89		BWZ	SUBTR, MOD, B	J	8	1138	V /31 L14 B		540
2888	21	90		A	MAX, MOD	J	7	1146	A 844 L14		541
2889	21	91		MZ	@ @, MOD	J	7	1153	Y L19 L14		541
2890	21	92		MCW	X2, HEX2#8	J	7	1160	M 094 L27		541
2891	21	93		MCW	STORES X1 IN HEX1	J	1	1167	M		541
2892	21	94		MCW	MOD, X1	J	7	1168	M L14 089		541
2893	21	95		A	X1	J	4	1175	A 089		541
2894	21	96		A	MOD, X1	J	7	1179	A L14 089		542
2895	21	97	* GET	TABLE	1 ADDRESS						
2896	21	98	BUMP	NOP	000	J	4	1186	N 000		542
2897	21	99		SAR	X1	J	4	1190	Q 089		542
2898	22	00		MCW	@N@, OVFLW	J	7	1194	M L28 Z73		542
2899	22	01	CHAIN	BCE	NEW, 000&X1, BLANK VARBL NOT YET ENDOUNTERED	J	8	1201	B T02 0  0		542
2900	22	02		BCE	OVFLW, 000&X1, < 12-6-8	J	8	1209	B Z73 0  0 <		542
2901	22	03	* SEE	IF	DEFINED ALREADY						
2902	22	04		MCW	000&X1, X2	J	7	1217	M 0  0 094		543
2903	22	05		SAR	X1	J	4	1224	Q 089		543
2904	22	06		C	000&X3, 000&X2	J	7	1228	C 0?0 0!0		543
2905	22	07		BU	CHAIN	J	5	1235	B S01 /		543
2906	22	08		C	000&X2, 000&X3	J	7	1240	C 0!0 0?0		543
2907	22	09		SAR	SWCHC&3	J	4	1247	Q S59		543
2908	22	10		BU	CHAIN	J	5	1251	B S01 /		543
2909	22	11	SWCHC	MN	0	J	4	1256	D 000		544
2910	22	12		SAR	SEND&3	J	4	1260	Q S75		544

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2911	22	13	RESTR	MCW	HEX2,X2	J	7	1264	M L27 094		544
2912	22	14		MCW		J	1	1271	M		544
2913	22	15	SEND	LCA	000,000&X2	J	7	1272	L 000 0!0		544
2914	22	16		SBR	X2	J	4	1279	H 094		544
2915	22	17		CW	001&X2	J	4	1283	) 0!1		544
2916	22	18		SBR	X3,1&X1	J	7	1287	H 099 0 1		545
2917	22	19		SBR	X1	J	4	1294	H 089		545
2918	22	20	GOBAK	B	FIND1 OPERAND SET TO FIND2 FOR RUN2	J	4	1298	B X23		545
2919	22	21	NEW	MCW	NXBTM,X2	J	7	1302	M 083 094		545
2920	22	22		MCW	NXBTM,000&X1	J	7	1309	M 083 0 0		545
2921	22	23		MCW	000&X3,000&X2	J	7	1316	M 0?0 0!0		545
2922	22	24		SBR	X2	J	4	1323	H 094		546
2923	22	25	*	CHECK TO	SEE IF THERE IS ROOM FOR ADDRESS						
2924	22	26		BCE	FULL,000&X2,< 12-6-8	J	8	1327	B K11 0!0 <		546
2925	22	27		CHAIN	4	J				MACRO	
2926				BCE		J	1	1335	B	GEN	546
2927				BCE		J	1	1336	B	GEN	546
2928				BCE		J	1	1337	B	GEN	546
2929				BCE		J	1	1338	B	GEN	546
2930	22	28		SW	000&X3	J	4	1339	, 0?0		546
2931	22	29		MCW	000&X3,*&8	J	7	1343	M 0?0 T57		547
2932	22	30		BCE	FIXED,@IJKLMN@,0	J	8	1350	B !31 L34 0		547
2933	22	31		CHAIN	5	J				MACRO	
2934				BCE		J	1	1358	B	GEN	547
2935				BCE		J	1	1359	B	GEN	547
2936				BCE		J	1	1360	B	GEN	547
2937				BCE		J	1	1361	B	GEN	547
2938				BCE		J	1	1362	B	GEN	547
2939	22	32		MZ	@A@,VZONE#1	J	7	1363	Y L35 L36		548
2940	22	33		BW	FUNST,ISFSW	J	8	1370	V W49 L10 1		548
2941	22	34		A	PARAM&6,WORK5	J	7	1378	A 692 853		548
2942	22	35	PACK	C	WORK5,&16000	J	7	1385	C 853 L41		548
2943	22	36		BH	PACK2	J	5	1392	B U25 U		548
2944	22	37		BW	PACK2,LGSW	J	8	1397	V U25 K48 1		549
2945	22	38		CS	332	J	4	1405	/ 332		549
2946	22	39		CS		J	1	1409	/		549
2947	22	40		MLC	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	J	7	1410	M L77 270		549
2948	22	41		W		J	1	1417	2		549
2949	22	42		SW	FAILSW,LGSW	J	7	1418	, 184 K48		549
2950	22	43	PACK2	MCW	WORK5,HOLD5#5	J	7	1425	M 853 L82		549
2951	22	44		MCW	X3,HOLD8#8	J	7	1432	M 099 L90		550
2952	22	45		MCW		J	1	1439	M		550
2953	22	46		FPACK	HOLD5,NXTOP,X2	J				MACRO	
2954				INCLD	ZONES	J				MACRO	
2955				MN	HOLD5,NXTOP	J	7	1440	D L82 086	GEN	550
2956				MN		J	1	1447	D	GEN	550
2957				MN		J	1	1448	D	GEN	550
2958				SAR	*&4	J	4	1449	Q U56	GEN	550
2959				MCW	0,X2	J	7	1453	M 000 094	GEN	550
2960				MCW	@0@	J	4	1460	M L91	GEN	551

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2961				A	X2	J	4	1464	A 094	GEN	551
2962				MZ	ZONES&1&X2,NXTOP	J	7	1468	Y KN1 086	GEN	551
2963				CW		J	1	1475	)	GEN	551
2964				SBR	*&7	J	4	1476	H U86	GEN	551
2965				MZ	ZONES&X2, 0	J	7	1480	Y KN0 000	GEN	551
2966	22	47		MCW	NXTOP,ADRSS#3	J	7	1487	M 086 L94		551
2967	22	48	RTN2	CW	0&X3	J	4	1494	) 0?0		552
2968	22	49		CS	299	J	4	1498	/ 299		552
2969	22	50		FFLIP	0&X3,201,X3,X2,INC,WM	J				MACRO	
2970				MN	201	J	4	1502	D 201	GEN	552
2971				MN		J	1	1506	D	GEN	552
2972				SAR	X2	J	4	1507	Q 094	GEN	552
2973				SBR	X3, 0&X3	J	7	1511	H 099 0?0	GEN	552
2974			)0K073	MCW	0&X3,)0L073#1	J	7	1518	M 0?0 L95	GEN	552
2975				SAR	X3	J	4	1525	Q 099	GEN	553
2976				MCW	)0L073, 2&X2	J	7	1529	M L95 0!2	GEN	553
2977				SBR	X2	J	4	1536	H 094	GEN	553
2978				BW	)0M073, 1&X3	J	8	1540	V V52 0?1 1	GEN	553
2979				B	)0K073	J	4	1548	B V18	GEN	553
2980			)0M073	EQU	*&1	J		1552		GEN	
2981	22	51		MCW	HOLD8,X3	J	7	1552	M L90 099		553
2982	22	52		MCW		J	1	1559	M		553
2983	22	53		MCW	NXTOP,227	J	7	1560	M 086 227		554
2984	22	54		MCS	WORK5,219	J	7	1567	Z 853 219		554
2985	22	55		BW	SWIX2,ISFSW	J	8	1574	V V94 L10 1		554
2986	22	56		W		J	1	1582	2		554
2987	22	57		FORMS		J				MACRO	
2988				BCV	*&5	J	5	1583	B V92 @	GEN	554
2989				B	*&3	J	4	1588	B V94	GEN	554
2990				CC	1	J	2	1592	F 1	GEN	554
2991	22	58	SWIX2	SW	1&X2	J	4	1594	, 0!1		555
2992	22	59		LCA	GM	J	4	1598	L M93		555
2993	22	60		SBR	SEND&3	J	4	1602	H S75		555
2994	22	61		LCA	ADRSS	J	4	1606	L L94		555
2995	22	62		SBR	NXBTM	J	4	1610	H 083		555
2996	22	63		SBR	X2	J	4	1614	H 094		555
2997	22	64		BCE	*&5,CODE-3,D	J	8	1618	B W30 K83 D		555
2998	22	65		B	*&5	J	4	1626	B W34		556
2999	22	66		CW	4&X2	J	4	1630	) 0!4		556
3000	22	67		MZ	VZONE,2&X2	J	7	1634	Y L36 0!2		556
3001	22	68		CW	ISFSW	J	4	1641	) L10		556
3002	22	69		B	RESTR	J	4	1645	B S64		556
3003	22	70	FUNST	MCW	FNCTR,ADRSS	J	7	1649	M L00 L94		556
3004	22	71		MCW	@]@	J	4	1656	M L96		556
3005	22	72		A	&1,FNCTR	J	7	1660	A L97 L00		557
3006	22	73		B	RTN2	J	4	1667	B U94		557
3007	22	74	TEST	FBCEQ	INPUT,CODE-3,1,5,L	J				MACRO	
3008			TEST	BCE	INPUT, CODE-3, 1	J	8	1671	B X63 K83 1	GEN	557
3009				BCE	INPUT, CODE-3, 5	J	8	1679	B X63 K83 5	GEN	557
3010				BCE	INPUT, CODE-3, L	J	8	1687	B X63 K83 L	GEN	557



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3011	22	75		MCW	@B@,SWCHA	J	7	1695	M L98  99		558
3012	22	76		MCW	@N@,SWCHB	J	7	1702	M L28 X31		558
3013	22	77		MCW	@N@,SWCHF	J	7	1709	M L28 Y06		558
3014	22	78		MCW	@N@,SWCHG	J	7	1716	M L28 X39		558
3015	22	79	FIND1	BCE	FOUND,000&X1, _	J	8	1723	B 997 0 0 _		558
3016	22	80	SWCHB	NOP	RTPAR,000&X1,) RT PAREN	J	8	1731	N X95 0 0 )		559
3017	22	81	SWCHG	NOP	DOLR1,000&X1,\$ DOLLAR, A-OPERAND ALSO MODIFIED	J	8	1739	N Z95 0 0 \$		559
3018	22	82	DONE	BCE	PASS,000&X1,} GROUP MARK	J	8	1747	B J63 0 0 } GMARK		559
3019	22	83		SBR	X1	J	4	1755	H 089		559
3020	22	84		B	FIND1	J	4	1759	B X23		559
3021	22	85	INPUT	MCW	@N@,SWCHA	J	7	1763	M L28  99		559
3022	22	86		MCW	@B@,SWCHB	J	7	1770	M L98 X31		560
3023	22	87		MCW	@M@,SWCHF	J	7	1777	M L99 Y06		560
3024	22	88		MCW	@B@,SWCHG	J	7	1784	M L98 X39		560
3025	22	89		B	FIND1	J	4	1791	B X23		560
3026	22	90	RTPAR	MCW	@N@,SWCHA	J	7	1795	M L28  99		560
3027	22	91		B	DONE	J	4	1802	B X47		560
3028	22	92	SWCHF	NOP	@B@,SWCHB	J	7	1806	N L98 X31		561
3029	22	93		MCW	@B@,SWCHA	J	7	1813	M L98  99		561
3030	22	94		B	MIXUP	J	4	1820	B /03		561
3031	22	95	UNDEF	CS	299	J	4	1824	/ 299		561
3032	22	96		SW	FAILSW	J	4	1828	, 184		561
3033	22	97		MCW	@ERROR 10 - UNDEFINED VARIABLE @,230	J	7	1832	M M29 230		561
3034	22	98		FFLIP	0&X3,231,X3,X1,INC,WM	J				MACRO	
3035				MN	231	J	4	1839	D 231	GEN	561
3036				MN		J	1	1843	D	GEN	562
3037				SAR	X1	J	4	1844	Q 089	GEN	562
3038				SBR	X3, 0&X3	J	7	1848	H 099 0?0	GEN	562
3039			)0K076	MCW	0&X3,)0L076#1	J	7	1855	M 0?0 M30	GEN	562
3040				SAR	X3	J	4	1862	Q 099	GEN	562
3041				MCW	)0L076, 2&X1	J	7	1866	M M30 0 2	GEN	562
3042				SBR	X1	J	4	1873	H 089	GEN	562
3043				BW	)0M076, 1&X3	J	8	1877	V Y89 0?1 1	GEN	563
3044				B	)0K076	J	4	1885	B Y55	GEN	563
3045			)0M076	EQU	*&1	J		1889		GEN	
3046	22	99		MN	CODE,255	J	7	1889	D K86 255		563
3047	23	00		MN		J	1	1896	D		563
3048	23	01		MN		J	1	1897	D		563
3049	23	02		MCW	@STATEMENT @	J	4	1898	M M40		563
3050	23	03		W		J	1	1902	2		563
3051	23	04		FORMS		J				MACRO	
3052				BCV	*&5	J	5	1903	B Z12 @	GEN	564
3053				B	*&3	J	4	1908	B Z14	GEN	564
3054				CC	1	J	2	1912	F 1	GEN	564
3055	23	05		SBR	SEND&3,ZEROZ	J	7	1914	H S75 K47		564
3056	23	06		BWZ	CKFIX,231,K	J	8	1921	V Z40 231 K		564
3057	23	07	ZNA	MZ	@A@,ZEROZ-1	J	7	1929	Y L35 K46		564
3058	23	08		B	RESTR	J	4	1936	B S64		564
3059	23	09	CKFIX	SW	231	J	4	1940	, 231		565
3060	23	10		MCW	231,*&8	J	7	1944	M 231 Z58		565

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3061	23	11		BCE	ZNA,@OPQR@, INITIALIZED	J	8	1951	B Z29 M44		565
3062	23	12		CHAIN	3	J				MACRO	
3063				BCE		J	1	1959	B	GEN	565
3064				BCE		J	1	1960	B	GEN	565
3065				BCE		J	1	1961	B	GEN	565
3066	23	13		MZ	@K@, ZEROZ-1	J	7	1962	Y M45 K46		565
3067	23	14		B	RESTR	J	4	1969	B S64		566
3068	23	15	OVFLW	NOP	FULL	J	4	1973	N K11		566
3069	23	16		MCW	@B@, OVFLW	J	7	1977	M L98 Z73		566
3070	23	17		MCW	UPLIM, X1	J	7	1984	M 848 089		566
3071	23	18		B	CHAIN	J	4	1991	B S01		566
3072	23	19	DOLR1	SBR	SWCHG&3, DOLR2	J	7	1995	H X42 !13		566
3073	23	20		MCW	@B@, SWCHA	J	7	2002	M L98  99		567
3074	23	21		B	DONE	J	4	2009	B X47		567
3075	23	22	DOLR2	SBR	SWCHG&3, DOLR1	J	7	2013	H X42 Z95		567
3076	23	23		MCW	@N@, SWCHA	J	7	2020	M L28  99		567
3077	23	24		B	DONE	J	4	2027	B X47		567
3078	23	25	FIXED	MZ	@J@, VZONE	J	7	2031	Y M46 L36		567
3079	23	26		BW	FUNST, ISFSW	J	8	2038	V W49 L10 1		568
3080	23	27		A	PARAM&4, WORK5	J	7	2046	A 690 853		568
3081	23	28		B	PACK	J	4	2053	B T85		568
3082	23	29	OUT	MLC	SAVE2, X1	J	7	2057	M 856 089		568
3083	23	30		CS	0&X2	J	4	2064	/ 0!0		568
3084	23	31		CS		J	1	2068	/		568
3085	23	32		SBR	TCLEAR, SYS4	J	7	2069	H 710 M99		568
3086	23	33	SWCHD	NOP	DUN	J	4	2076	N J47		569
3087	23	34		SW	GM	J	4	2080	, M93		569
3088	23	35		MCW	@B@, SWCHD	J	7	2084	M L98 !76		569
3089	23	36		MCW	@)@, SWCHC	J	7	2091	M M47 S56		569
3090	23	37		MCW	@N@, SWCHE	J	7	2098	M L28 943		569
3091	23	38		MCW	@N@, SWCHA	J	7	2105	M L28  99		569
3092	23	39		SBR	CHAIN&3, UNDEF	J	7	2112	H S04 Y24		570
3093	23	40		SBR	GOBAK&3, FIND2	J	7	2119	H T01 947		570
3094	23	41		CS	0&X2	J	4	2126	/ 0!0		570
3095	23	42		SBR	X2, 1&X1	J	7	2130	H 094 0 1		570
3096	23	43		SBR	SAVE2	J	4	2137	H 856		570
3097	23	44		CC	J	J	2	2141	F J		570
3098	23	45		B	START	J	4	2143	B 879		570
3099	23	46	DUN	BSS	333, C	J	5	2147	B 333 C		571
3100	23	47		MCW	@VARBLQUIN@, 110	J	7	2152	M M56 110		571
3101	34	48		B	MONTOR	J	4	2159	B 769		571
3102	23	49	PASS	MVDWN	X3, X2	J				MACRO	
3103			PASS	LCA	0&X3, 0&X2	J	7	2163	L 0?0 0!0	GEN	571
3104				SAR	X3	J	4	2170	Q 099	GEN	571
3105				C	0&X2	J	4	2174	C 0!0	GEN	571
3106				SAR	X2	J	4	2178	Q 094	GEN	571
3107	23	50		MCW	X3, X1	J	7	2182	M 099 089		572
3108	23	51		B	START	J	4	2189	B 879		572
3109	23	52	BOTM	SBR	X1, 1&X1	J	7	2193	H 089 0 1		572
3110	23	53		SBR	X3, 1&X3	J	7	2200	H 099 0?1		572

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3111	23	54		B	FIND1	J	4	2207	B X23		572
3112	23	55	FULL	FQUIT		J				MACRO	
3113			FULL	CS	332	J	4	2211	/ 332	GEN	572
3114				CS		J	1	2215	/	GEN	572
3115				CC	1	J	2	2216	F 1	GEN	573
3116				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	J	7	2218	M M92 270	GEN	573
3117				W		J	1	2225	2	GEN	573
3118				CC	1	J	2	2226	F 1	GEN	573
3119				BCE	*&6,MONTOR,1	J	8	2228	B K41 769 1	GEN	573
3120				RWD	1	J	5	2236	U %U1 R	GEN	573
3121				H	*-3	J	4	2241	. K41	GEN	573
3122	23	56	ZEROZ	DCW	@000@	J	3	2247			574
3123	23	57	LGSW	DC	#1	J	1	2248			574
3124	23	58		ORG	*	J			2249		
3125				LTORG	* WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG	J			2249		
3126				DCW	#1	J	1	2249		GEN	574
3127			ZONES	DC	9	J	1	2250		GEN	574
3128				DCW	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	J	31	2281		GEN	574
			*	LTORG*						GEN	
				DCW	@S@	J	1	2282		LIT	574
			CODE J	DCW	#04	J	4	2286		AREA	575
			WORK J	DCW	#10	J	10	2296		AREA	575
				DCW	@01@	J	2	2298		LIT	575
			FNCTRJ	DCW	#02	J	2	2300		AREA	575
			BOX J	DCW	#01	J	1	2301		AREA	575
				DCW	@@}#*-&),@	J	8	2309		LIT	575
			ISFSWJ	DCW	#01	J	1	2310		AREA	575
			MOD J	DCW	#04	J	4	2314		AREA	576
				DCW	@ @	J	4	2318		LIT	576
				DCW	@ @	J	1	2319		LIT	576
			HEX2 J	DCW	#08	J	8	2327		AREA	576
				DCW	@N@	J	1	2328		LIT	576
				DCW	@IJKLMN@	J	6	2334		LIT	576
				DCW	@A@	J	1	2335		LIT	576
			VZONEJ	DCW	#01	J	1	2336		AREA	577
				DCW	&16000	J	5	2341		LIT	577
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	J	36	2377		LIT	578
			HOLD5J	DCW	#05	J	5	2382		AREA	579
			HOLD8J	DCW	#08	J	8	2390		AREA	579
				DCW	@0@	J	1	2391		LIT	579
			ADRSSJ	DCW	#03	J	3	2394		AREA	579
			)0L073	DCW	#01	J	1	2395		AREA	579
				DCW	@]@	J	1	2396		LIT	579
				DCW	&1	J	1	2397		LIT	579
				DCW	@B@	J	1	2398		LIT	580
				DCW	@M@	J	1	2399		LIT	580
				DCW	@ERROR 10 - UNDEFINED VARIABLE @	J	30	2429		LIT	580
			)0L076	DCW	#01	J	1	2430		AREA	580
				DCW	@STATEMENT @	J	10	2440		LIT	581
				DCW	@OPQR@	J	4	2444		LIT	581

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@K@	J	1	2445		LIT	581
				DCW	@J@	J	1	2446		LIT	581
				DCW	@)@	J	1	2447		LIT	581
				DCW	@VARBLQUIN@	J	9	2456		LIT	581
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	J	36	2492		LIT	582
3129	23	59	GM	DC	@}@ G-M	J	1	2493		GMARK	582
3130	23	60		DC	@ @ SPACE FOR FANCY SCAN	J	5	2498			583
3131	23	61	SYS4	DCW	@}@ WORK AND SYSTEM GROUP MARK	J	1	2499		GMARK	583
3132	23	62		XFR	BEGIN	J			B 857		584

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3133	23	63		JOB	1401 FORTRAN VARIABLES PHASE FIVE	J					
3134	23	64	110	DCW	@VARBL QUIN@	J	10	0110			587
3135	23	65		ORG	PHSE3	J			0857		
3136	23	66	CKREF	CC	J	J	2	0857	F J		588
3137	23	67		MCW	X1,KEEP2#3	J	7	0859	M 089  79		588
3138	23	68		MCW	PARAM&2,X2	J	7	0866	M 688 094		588
3139	23	69	SCAN	BCE	ISGM,0&X2,}	J	8	0873	B 945 0!0 } GMARK		588
3140	23	70		SBR	X2	J	4	0881	H 094		588
3141	23	71		C	X2,NXBTM	J	7	0885	C 094 083		588
3142	23	72		BU	SCAN	J	5	0892	B 873 /		589
3143	23	73		MCW	KEEP2,X1	J	7	0897	M  79 089		589
3144	23	74		FENDX	D,, ,XBEGIN,XBEGIN,XBEGIN,SAUCEK-2,CONST ONE	J				MACRO	
3145				BSS	333,D	J	5	0904	B 333 D	GEN	589
3146				SBR	INITAP&6,XBEGIN	J	7	0909	H 786 838	GEN	589
3147				SBR	BCLEAR	J	4	0916	H 833	GEN	589
3148				SBR	INITXT&3,XBEGIN	J	7	0920	H 796 838	GEN	589
3149				SBR	TCLEAR,SAUCEK-2	J	7	0927	H 710 098	GEN	590
3150				LCA	@CONST ONE@,110	J	7	0934	L  88 110	GEN	590
3151				B	MONTER	J	4	0941	B 700	GEN	590
3152	23	75	ISGM	BW	UNREF,0&X2	J	8	0945	V 965 0!0 1		590
3153	23	76		MN	0&X2	J	4	0953	D 0!0		590
3154	23	77		SBR	X2	J	4	0957	H 094		590
3155	23	78		B	SCAN	J	4	0961	B 873		590
3156	23	79	UNREF	CS	299	J	4	0965	/ 299		591
3157	23	80		MCW	@ERROR 11 - UNREFERENCED VARIABLE @,233	J	7	0969	M /21 233		591
3158	23	81		MCW	X2,X3	J	7	0976	M 094 099		591
3159	23	82	NOPR	NOP	1&X3	J	4	0983	N 0?1		591
3160	23	83		SAR	X3	J	4	0987	Q 099		591
3161	23	84		BW	FLIP,2&X3	J	8	0991	V  03 0?2 1		591
3162	23	85		B	NOPR	J	4	0999	B 983		591
3163	23	86	FLIP	FFLIP	1&X3,234,X3,X1,INCL,WM	J				MACRO	
3164			FLIP	MN	234	J	4	1003	D 234	GEN	592
3165				MN		J	1	1007	D	GEN	592
3166				SAR	X1	J	4	1008	Q 089	GEN	592
3167				SBR	X3, 1&X3	J	7	1012	H 099 0?1	GEN	592
3168			)0K081	MCW	0&X3,)0L081#1	J	7	1019	M 0?0 /22	GEN	592
3169				SAR	X3	J	4	1026	Q 099	GEN	592
3170				MCW	)0L081, 2&X1	J	7	1030	M /22 0 2	GEN	592
3171				SBR	X1	J	4	1037	H 089	GEN	593
3172				BW	)0M081, 1&X3	J	8	1041	V  53 0?1 1	GEN	593
3173				B	)0K081	J	4	1049	B  19	GEN	593
3174			)0M081	EQU	*&1	J		1053		GEN	
3175	23	87		W		J	1	1053	2		593
3176	23	88		FORMS		J				MACRO	
3177				BCV	*&5	J	5	1054	B  63 @	GEN	593
3178				B	*&3	J	4	1059	B  65	GEN	593
3179				CC	1	J	2	1063	F 1	GEN	593
3180	23	89		MN	0&X2	J	4	1065	D 0!0		594
3181	23	90		SAR	X2	J	4	1069	Q 094		594
3182	23	91		B	SCAN	J	4	1073	B 873		594

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3183	23	92		LTORG	*	J			1077		
			KEEP2J	DCW	#03	J	3	1079		AREA	594
				DCW	@CONST ONE@	J	9	1088		LIT	594
				DCW	@ERROR 11 - UNREFERENCED VARIABLE @	J	33	1121		LIT	595
			)0L081	DCW	#01	J	1	1122		AREA	595
3184	23	93		DCW	@}@	J	1	1123		GMARK	595
3185	23	94		XFR	CKREF	J			B 857		596
					SYSTEM GROUP MARK						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3186	23	95		JOB	1401 FORTRAN CONSTANT PHASE ONE	J					
3187	23	96		FBEGN	CONST ONE,X1,,X2,R,X3,R,K	J				MACRO	
3188				SFX	K	K				GEN	
3189			110	DCW	@CONST ONE@	K	9	0110		GEN	599
3190			X1	EQU	089	K		0089		GEN	
3191			X2	EQU	094	K		0094		GEN	
3192			094	DCW	000	K	3	0094		GEN	600
3193			096	DC	00	K	2	0096		GEN	600
3194			X3	EQU	099	K		0099		GEN	
3195			099	DCW	000	K	3	0099		GEN	600
3196			100	DC	0	K	1	0100		GEN	600
3197	23	97		ORG	XBEGIN	K			0838		
3198	23	98	TRACK	EQU	200	K		0200			
3199	23	99	NXBTM	EQU	083	K		0083			
3200	24	00	INITL	CS	TRACK&99	K	4	0838	/ 299		601
3201	24	01		SW	GM	K	4	0842	, L49		601
3202	24	02		SW	TRACK	K	4	0846	, 200		601
3203	24	03		MCW	PARAM&2,X2	K	7	0850	M 688 094		601
3204	24	04		MN	000&X2	K	4	0857	D 0!0		601
3205	24	05		MN		K	1	0861	D		601
3206	24	06		SAR	X2	K	4	0862	Q 094		601
3207	24	07		SBR	NXBTM	K	4	0866	H 083		602
3208	24	08		LCA	GM, 1&X2	K	7	0870	L L49 0!1		602
3209	24	09	START	BCE	OUT,000&X1, BLANK	K	8	0877	B J53 0!0		602
3210	24	10		MCW	000&X1, CODE#4	K	7	0885	M 0!0 L53		602
3211	24	11		LCA	000&X1, WORK#10	K	7	0892	L 0!0 L63		602
3212	24	12		SAR	X1	K	4	0899	Q 089		602
3213	24	13		SBR	HEX3#3	K	4	0903	H L66		603
3214	24	14		SBR	KILL#3, 0&X2	K	7	0907	H L69 0!0		603
3215	24	15		LCA	WORK, 000&X2	K	7	0914	L L63 0!0		603
3216	24	16		SBR	X2	K	4	0921	H 094		603
3217	24	17		MCW	CODE-3, *&8	K	7	0925	M L50 939		603
3218	24	18		BCE	TRYIT,@UPL3165DER@,0	K	8	0932	B 972 L79 0		603
3219	24	19		CHAIN	9	K				MACRO	
3220				BCE		K	1	0940	B	GEN	603
3221				BCE		K	1	0941	B	GEN	604
3222				BCE		K	1	0942	B	GEN	604
3223				BCE		K	1	0943	B	GEN	604
3224				BCE		K	1	0944	B	GEN	604
3225				BCE		K	1	0945	B	GEN	604
3226				BCE		K	1	0946	B	GEN	604
3227				BCE		K	1	0947	B	GEN	604
3228				BCE		K	1	0948	B	GEN	605
3229	24	20		MVDWN	X1,X2	K				MACRO	
3230				LCA	0&X1, 0&X2	K	7	0949	L 0!0 0!0	GEN	605
3231				SAR	X1	K	4	0956	Q 089	GEN	605
3232				C	0&X2	K	4	0960	C 0!0	GEN	605
3233				SAR	X2	K	4	0964	Q 094	GEN	605
3234	24	21		B	START	K	4	0968	B 877		605
3235	24	22	TRYIT	SBR	X3, TABLE-4	K	7	0972	H 099 L07		605

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3236	24	23		MCW	CODE-3,SCAN&7	K	7	0979	M L50 993		606
3237	24	24	SCAN	BCE	SETUP,004&X3,0 D-CHAR MODIFIED	K	8	0986	B  02 0?4 0		606
3238	24	25		SBR	X3	K	4	0994	H 099		606
3239	24	26		B	SCAN	K	4	0998	B 986		606
3240	24	27	SETUP	MCW	006&X3,CNTRL#2	K	7	1002	M 0?6 L81		606
3241	24	28		MCW	CNTRL-1,TEST2&7	K	7	1009	M L80  38		606
3242	24	29	TEST1	BCE	GUTS,CNTRL,2	K	8	1016	B  67 L81 2		607
3243	24	30		A	@1@,CNTRL	K	7	1024	A L82 L81		607
3244	24	31	TEST2	BCE	BUMP1,0&X1,0	K	8	1031	B  55 0 0 0		607
3245	24	32		BCE	GUTS,0&X1,}	K	8	1039	B  67 0 0 }	GMARK	607
3246	24	33		SBR	X1	K	4	1047	H 089		607
3247	24	34		B	TEST2	K	4	1051	B  31		607
3248	24	35	BUMP1	MN	0&X1	K	4	1055	D 0 0		608
3249	24	36		SAR	X1	K	4	1059	Q 089		608
3250	24	37		B	TEST1	K	4	1063	B  16		608
3251	24	38	GUTS	BWZ	MAYBE,000&X1,3 NUMBER,EQUAL SIGN,WORD MK	K	8	1067	V  91 0 0 3		608
3252	24	39		SBR	X1	K	4	1075	H 089		608
3253	24	40		BCE	SUBSC,1&X1,\$	K	8	1079	B /76 0 1 \$		608
3254	24	41		B	GUTS	K	4	1087	B  67		608
3255	24	42	MAYBE	BCE	PASS,000&X1,} 12-7-8	K	8	1091	B J95 0 0 }	GMARK	609
3256	24	43		SBR	X1	K	4	1099	H 089		609
3257	24	44		BCE	GUTS,001&X1,#	K	8	1103	B  67 0 1 #		609
3258	24	45		BCE	GUTS,1&X1,@	K	8	1111	B  67 0 1 @		609
3259	24	46		MCW	002&X1,BOX&1	K	7	1119	M 0 2 L48		609
3260	24	47		MCW		K	1	1126	M		609
3261	24	48		MCW		K	1	1127	M		609
3262	24	49		SAR	X1	K	4	1128	Q 089		610
3263	24	50		MCW	BOX&1,*&8	K	7	1132	M L48 /46		610
3264	24	51		BCE	RUCON,@)}@.##\$,*-&@,0 RT PAREN,GROUP MARK	K	8	1139	B S16 L93 0		610
3265	24	52		CHAIN	10	K				MACRO	
3266				BCE		K	1	1147	B	GEN	610
3267				BCE		K	1	1148	B	GEN	610
3268				BCE		K	1	1149	B	GEN	610
3269				BCE		K	1	1150	B	GEN	610
3270				BCE		K	1	1151	B	GEN	611
3271				BCE		K	1	1152	B	GEN	611
3272				BCE		K	1	1153	B	GEN	611
3273				BCE		K	1	1154	B	GEN	611
3274				BCE		K	1	1155	B	GEN	611
3275				BCE		K	1	1156	B	GEN	611
3276	24	53		BCE	PASS,1&X1,}	K	8	1157	B J95 0 1 }	GMARK	611
3277	24	54	BMPX1	SBR	X1,1&X1	K	7	1165	H 089 0 1		612
3278	24	55		B	GUTS	K	4	1172	B  67		612
3279	24	56	SUBSC	NOP	SUB2	K	4	1176	N /98		612
3280	24	57		MCW	@B@,SUBSC	K	7	1180	M L94 /76		612
3281	24	58		MCW	BLANK,SUBSW&4	K	7	1187	M N04 !42		612
3282	24	59		B	GUTS	K	4	1194	B  67		612
3283	24	60	SUB2	MCW	@N@,SUBSC	K	7	1198	M L95 /76		613
3284	24	61		MCW	@/@,SUBSW&4	K	7	1205	M L96 !42		613
3285	24	62		B	GUTS	K	4	1212	B  67		613



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3286	24	63	RUCON	BCE	BAKUP,3&X1,.	K	8	1216	B K32 0 3 .		613
3287	24	64		MCW	BOX-1,*&8	K	7	1224	M L46 S38		613
3288	24	65		BCE	BMPX1,@?ABCDEFGH!JKLMNOPQR@,0 &ZERO,- ZERO	K	8	1231	B /65 M16 0		614
3289	24	66		CHAIN	19	K				MACRO	
3290				BCE		K	1	1239	B	GEN	614
3291				BCE		K	1	1240	B	GEN	614
3292				BCE		K	1	1241	B	GEN	614
3293				BCE		K	1	1242	B	GEN	614
3294				BCE		K	1	1243	B	GEN	614
3295				BCE		K	1	1244	B	GEN	614
3296				BCE		K	1	1245	B	GEN	615
3297				BCE		K	1	1246	B	GEN	615
3298				BCE		K	1	1247	B	GEN	615
3299				BCE		K	1	1248	B	GEN	615
3300				BCE		K	1	1249	B	GEN	615
3301				BCE		K	1	1250	B	GEN	615
3302				BCE		K	1	1251	B	GEN	615
3303				BCE		K	1	1252	B	GEN	616
3304				BCE		K	1	1253	B	GEN	616
3305				BCE		K	1	1254	B	GEN	616
3306				BCE		K	1	1255	B	GEN	616
3307				BCE		K	1	1256	B	GEN	616
3308				BCE		K	1	1257	B	GEN	616
3309	24	67		BCE	CKIF,3&X1,)	K	8	1258	B J83 0 3 )		616
3310	24	68	SET	SW	003&X1	K	4	1266	, 0 3		617
3311	24	69		MCW	HEX3,X3	K	7	1270	M L66 099		617
3312	24	70		LCA	000&X3,000&X2	K	7	1277	L 0?0 0!0		617
3313	24	71		SBR	X2	K	4	1284	H 094		617
3314	24	72		MCW	@<@,3&X1	K	7	1288	M M17 0 3		617
3315	24	73		SBR	KLOBR&6,3&X1	K	7	1295	H J17 0 3		617
3316	24	74		CW	001&X2	K	4	1302	) 0!1		618
3317	24	75		LCA	@_@,000&X2	K	7	1306	L M18 0!0		618
3318	24	76		SBR	X2	K	4	1313	H 094		618
3319	24	77		CW	001&X2	K	4	1317	) 0!1		618
3320	24	78		CW	ODDSW	K	4	1321	) N44		618
3321	24	79		S	XPONT#2	K	4	1325	S M20		618
3322	24	80		S	COUNT#3	K	4	1329	S M23		618
3323	24	81		S	TOTAL	K	4	1333	S M28		619
3324	24	82		MCW	@,@,STODD	K	7	1337	M M24 K64		619
3325	24	83		MCW	@N@,SWCHX	K	7	1344	M L95 T90		619
3326	24	84		MCW	@B@,SWCHZ	K	7	1351	M L94 U04		619
3327	24	85		SBR	SWCHA&3,A	K	7	1358	H K75 L41		619
3328	24	86		SBR	SWCHS&3,S	K	7	1365	H K46 L42		619
3329	24	87		SBR	X1,2&X1	K	7	1372	H 089 0 2		620
3330	24	88	NORML	MCW	000&X1,BOX	K	7	1379	M 0 0 L47		620
3331	24	89		SAR	X1	K	4	1386	Q 089		620
3332	24	90	SWCHX	NOP	&1,XPONT	K	7	1390	N M25 M20		620
3333	24	91		A	&1,TOTAL#3	K	7	1397	A M25 M28		620
3334	24	92	SWCHZ	BCE	NORML,BOX,0	K	8	1404	B T79 L47 0		621
3335	24	93		BCE	SWCHS,BOX,.	K	8	1412	B K43 L47 .		621

PASSES BY LEADING ZEROS

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3336	24	94		BCE	SWCHA,SWCHZ,B	K	8	1420	B K72 U04 B		621
3337	24	95		A	&1,COUNT	K	7	1428	A M25 M23		621
3338	24	96	TEST	BCE	CNLFT,BOX,#	K	8	1435	B X20 L47 #		621
3339	24	97		BCE	*&9,BOX,@	K	8	1443	B U59 L47 @		622
3340	24	98		BWZ	NORML,BOX,2 NO ZONE	K	8	1451	V T79 L47 2		622
3341	24	99	CR	C	SWCHA&3,NOPAD	K	7	1459	C K75 L45		622
3342	25	00	*		DECIMAL POINT SENDS THE ADDRESS OF NOP TO SWCHA&3						
3343	25	01	*		CANNOT USE ADDRESS CONSTANT						
3344	25	02		BU	FIXED	K	5	1466	B Z31 /		622
3345	25	03		BWZ	MARK,XPONT,B	K	8	1471	V U86 M20 B		622
3346	25	04		A	&1,XPONT	K	7	1479	A M25 M20		623
3347	25	05	MARK	SW	002&X1	K	4	1486	, 0 2		623
3348	25	06		BCE	ODDBL,2&X1,.	K	8	1490	B Y22 0 2 .		623
3349	25	07	CKTAL	BCE	TAIL,BOX,E	K	8	1498	B Y37 L47 E		623
3350	25	08	FLOAT	C	TOTAL,&01	K	7	1506	C M28 M30		623
3351	25	09		NOP	SYNTAX	K	4	1513	N X84		623
3352	25	10		NOP		K	1	1517	N		623
3353	25	11		C	COUNT,&000	K	7	1518	C M23 M33		624
3354	25	12		BU	RTLFT	K	5	1525	B V49 /		624
3355	25	13	LDZER	LCA	@?0?@,0&X2 12-0,0,12-0	K	7	1530	L M36 0!0		624
3356	24	14		SBR	X2	K	4	1537	H 094		624
3357	25	15		CW	001&X2	K	4	1541	) 0!1		624
3358	25	16		B	BOTM2	K	4	1545	B J00		624
3359	25	17	RTLFT	MCW	X1,HEX1#3	K	7	1549	M 089 M39		624
3360	25	18		BW	*&8,ODDSW	K	8	1556	V V71 N44 1		625
3361	25	19		LCA	000&X3,001&X3	K	7	1564	L 0?0 0?1		625
3362	25	20		MCW	RIGHT#3,X1	K	7	1571	M M42 089		625
3363	25	21		MCW	PARAM&6,PRESZ#2	K	7	1578	M 692 M44		625
3364	25	22		A	&2,PRESZ	K	7	1585	A M45 M44		625
3365	25	23		SBR	X3,TRACK-2	K	7	1592	H 099 198		626
3366	25	24		SW	TRACK	K	4	1599	, 200		626
3367	25	25	TWIST	MCW	000&X1,BOX	K	7	1603	M 0 0 L47		626
3368	25	26		SAR	X1	K	4	1610	Q 089		626
3369	25	27		MCW	BOX,002&X3	K	7	1614	M L47 0?2		626
3370	25	28		SBR	X3	K	4	1621	H 099		626
3371	25	29		BWZ	PHEW,001&X1,1 WORD MARK	K	8	1625	V W52 0 1 1		627
3372	25	30		S	&1,PRESZ	K	7	1633	S M25 M44		627
3373	25	31		C	PRESZ,&00	K	7	1640	C M44 M47		627
3374	25	32		BU	TWIST	K	5	1647	B W03 /		627
3375	25	33	PHEW	SBR	X3,1&X3	K	7	1652	H 099 0?1		627
3376	25	34	PHEW1	BCE	*&5,0&X3,0	K	8	1659	B W71 0?0 0		628
3377	25	35		B	XEUNT	K	4	1667	B W83		628
3378	25	36		MN	0&X3	K	4	1671	D 0?0		628
3379	25	37		SAR	X3	K	4	1675	Q 099		628
3380	25	38		B	PHEW1	K	4	1679	B W59		628
3381	25	39	XEUNT	MN	0&X3	K	4	1683	D 0?0		628
3382	25	40		SAR	X3	K	4	1687	Q 099		628
3383	25	41		MCW	XPONT,3&X3	K	7	1691	M M20 0?3		629
3384	25	42		MZ	@A@,1&X3	K	7	1698	Y M48 0?1		629
3385	25	43		LCA	003&X3,000&X2	K	7	1705	L 0?3 0!0		629

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3386	25	44		SBR	X2	K	4	1712	H 094		629
3387	25	45		B	BOTM	K	4	1716	B !89		629
3388	25	46	CNLFT	CS	332	K	4	1720	/ 332		629
3389	25	47		CS		K	1	1724	/		629
3390	25	48		SW	FAILSW	K	4	1725	, 184		630
3391	25	49		MN	CODE,256	K	7	1729	D L53 256		630
3392	25	50		CHAIN	2	K				MACRO	
3393				MN		K	1	1736	D	GEN	630
3394				MN		K	1	1737	D	GEN	630
3395	25	51		MCW	@EQUAL SIGN, STATEMENT @	K	4	1738	M M70		630
3396	25	52		MCW	@ERROR 41 - CONSTANT LEFT SIDE OF @	K	4	1742	M N03		630
3397	25	53		W		K	1	1746	2		630
3398	25	54		FORMS		K				MACRO	
3399				BCV	*&5	K	5	1747	B X56 @	GEN	631
3400				B	*&3	K	4	1752	B X58	GEN	631
3401				CC	1	K	2	1756	F 1	GEN	631
3402	25	55		MCW	KILL,X2	K	7	1758	M L69 094		631
3403	25	56		MCW	BLANK#1,0&X2	K	7	1765	M N04 0!0		631
3404	25	57		C	0&X1	K	4	1772	C 0 0		631
3405	25	58		SAR	X1	K	4	1776	Q 089		631
3406	25	59		B	START	K	4	1780	B 877		632
3407	25	60	SYNTAX	FTMSG	44,CONSTANT SYNTAX,CODE,17	K				MACRO	
3408			SYNTAX	CS	332	K	4	1784	/ 332	GEN	632
3409				CS		K	1	1788	/	GEN	632
3410				SW	FAILSW	K	4	1789	, 184	GEN	632
3411				MN	CODE,224&17	K	7	1793	D L53 241	GEN	632
3412				MN		K	1	1800	D	GEN	632
3413				MN		K	1	1801	D	GEN	632
3414				MCW	@ERROR 44 - CONSTANT SYNTAX, STATEMENT @	K	4	1802	M N42	GEN	633
3415				W		K	1	1806	2	GEN	633
3416				BCV	*&5	K	5	1807	B Y16 @	GEN	633
3417				B	*&3	K	4	1812	B Y18	GEN	633
3418				CC	1	K	2	1816	F 1	GEN	633
3419	25	61		B	LDZER	K	4	1818	B V30		633
3420	25	62	ODDBL	MCW	@0@,2&X1	K	7	1822	M N43 0 2		633
3421	25	63		SW	ODDSW#1	K	4	1829	, N44		634
3422	25	64		B	CKTAL	K	4	1833	B U98		634
3423	25	65	TAIL	ZA	&0,BUMP#2	K	7	1837	? N45 N47		634
3424	25	66		BWZ	FLIP,000&X1,2	K	8	1844	V Y63 0 0 2		634
3425	25	67		MZ	000&X1,BUMP	K	7	1852	Y 0 0 N47		634
3426	25	68	*		ZONE RESPECTIVELY						
3427	25	69		SAR	X1	K	4	1859	Q 089		634
3428	25	70	FLIP	MN	000&X1	K	4	1863	D 0 0		634
3429	25	71		SAR	X1	K	4	1867	Q 089		635
3430	25	72		C	0&X1,@Z@	K	7	1871	C 0 0 N48		635
3431	25	73		BL	UNITS	K	5	1878	B Y94 T		635
3432	25	74		MN	001&X1,BUMP	K	7	1883	D 0 1 N47		635
3433	25	75		B	BUMPR	K	4	1890	B Z12		635
3434	25	76	UNITS	MN	001&X1,BUMP-1	K	7	1894	D 0 1 N46		635
3435	25	77		MN	000&X1,BUMP	K	7	1901	D 0 0 N47		636

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3436	25	78		SAR	X1	K	4	1908	Q 089		636
3437	25	79	BUMPR	A	BUMP,XPONT	K	7	1912	A N47 M20		636
3438	25	80		MN	0&X1	K	4	1919	D 0 0		636
3439	25	81		SAR	X1	K	4	1923	Q 089		636
3440	25	82		B	FLOAT	K	4	1927	B V06		636
3441	25	83	FIXED	C	COUNT,&000	K	7	1931	C M23 M33		636
3442	25	84		BU	LFTRT	K	5	1938	B Z62 /		637
3443	25	85		LCA	@ 0@,000&X2 BLANK, ZERO	K	7	1943	L N50 0!0		637
3444	25	86		SBR	X2	K	4	1950	H 094		637
3445	25	87		CW	001&X2	K	4	1954	) 0!1		637
3446	25	88		B	BOTM2	K	4	1958	B J00		637
3447	25	89	LFTRT	MCW	X1,HEX1	K	7	1962	M 089 M39		637
3448	25	90		MCW	RIGHT,X3	K	7	1969	M M42 099		637
3449	25	91		SW	0&X3	K	4	1976	, 0?0		638
3450	25	92		SBR	X3,TRACK&99	K	7	1980	H 099 299		638
3451	25	93		MCW	PARAM&4,PRESZ	K	7	1987	M 690 M44		638
3452	25	94	TURN	MCW	002&X1,BOX	K	7	1994	M 0 2 L47		638
3453	25	95		SAR	X1	K	4	2001	Q 089		638
3454	25	96		MCW	BOX,000&X3	K	7	2005	M L47 0?0		638
3455	25	97		SBR	X3	K	4	2012	H 099		639
3456	25	98		BWZ	WOW,001&X1,1 WORD MARK	K	8	2016	V !43 0 1 1		639
3457	25	99		S	&1,PRESZ	K	7	2024	S M25 M44		639
3458	26	00		C	PRESZ,&00	K	7	2031	C M44 M47		639
3459	26	01	SUBSW	BU	TURN	K	5	2038	B Z94 /		639
3460	26	02	WOW	SW	001&X3	K	4	2043	, 0?1		639
3461	26	03		LCA	TRACK&99,000&X2	K	7	2047	L 299 0!0		640
3462	26	04		SBR	X2	K	4	2054	H 094		640
3463	26	05		CW	001&X3	K	4	2058	) 0?1		640
3464	26	06		C	COUNT,&001	K	7	2062	C M23 N53		640
3465	26	07		BU	BOTM	K	5	2069	B !89 /		640
3466	26	08		CW	001&X2	K	4	2074	) 0!1		640
3467	26	09		LCA	@ @,000&X2 BLANK	K	7	2078	L N54 0!0		640
3468	26	10		SBR	X2	K	4	2085	H 094		641
3469	26	11	BOTM	CW	001&X2	K	4	2089	) 0!1		641
3470	26	12		MCW	HEX1,X1	K	7	2093	M M39 089		641
3471	26	13	BOTM2	SBR	X1,1&X1	K	7	2100	H 089 0 1		641
3472	26	14		SBR	HEX3	K	4	2107	H L66		641
3473	26	15	KLOBR	BCE	GUTS,0,< 12-6-8	K	8	2111	B  67 000 <		641
3474	26	16		FQUIT		K				MACRO	
3475				CS	332	K	4	2119	/ 332	GEN	641
3476				CS		K	1	2123	/	GEN	642
3477				CC	1	K	2	2124	F 1	GEN	642
3478				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	K	7	2126	M N90 270	GEN	642
3479				W		K	1	2133	2	GEN	642
3480				CC	1	K	2	2134	F 1	GEN	642
3481				BCE	*&6,MONTOR,1	K	8	2136	B J49 769 1	GEN	642
3482				RWD	1	K	5	2144	U %U1 R	GEN	642
3483				H	*-3	K	4	2149	. J49	GEN	643
3484	26	17	OUT	FENDX	C,GM,,PHSE20,,SYS1,CONST TWO	K				MACRO	
3485			OUT	BSS	333,C	K	5	2153	B 333 C	GEN	643

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3486				SBR	INITXT&3,PHSE20	K	7	2158	H 796 849	GEN	643
3487				SBR	TCLEAR,SYS1	K	7	2165	H 710 001	GEN	643
3488				LCA	@CONST TWO@,110	K	7	2172	L N99 110	GEN	643
3489				B	MONTER	K	4	2179	B 700	GEN	643
3490	26	18	CKIF	BCE	PASS, CODE-3, E	K	8	2183	B J95 L50 E		644
3491	26	19		B	SET	K	4	2191	B S66		644
3492	26	20	PASS	MCW	HEX3, X3	K	7	2195	M L66 099		644
3493	26	21		MVDWN	X3, X2	K				MACRO	
3494				LCA	0&X3, 0&X2	K	7	2202	L 0?0 0!0	GEN	644
3495				SAR	X3	K	4	2209	Q 099	GEN	644
3496				C	0&X2	K	4	2213	C 0!0	GEN	644
3497				SAR	X2	K	4	2217	Q 094	GEN	644
3498	26	22		MCW	X3, X1	K	7	2221	M 099 089		645
3499	26	23		B	START	K	4	2228	B 877		645
3500	26	24	BAKUP	SBR	X1, 1&X1	K	7	2232	H 089 0 1		645
3501	26	25		B	SET	K	4	2239	B S66		645
3502	26	26	SWCHS	MCW	@S@, SWCHX	K	7	2243	M 000 T90		645
3503	26	27		MCW	NOPAD, SWCHA&3	K	7	2250	M L45 K75		645
3504	26	28		MCW	X1, X3	K	7	2257	M 089 099		646
3505	26	29	STODD	SW	ODDSW	K	4	2264	, N44		646
3506	26	30		B	NORML	K	4	2268	B T79		646
3507	26	31	SWCHA	MCW	@A@, SWCHX	K	7	2272	M M48 T90		646
3508	26	32		MCW	NOPAD, SWCHS&3	K	7	2279	M L45 K46		646
3509	26	33		MCW	@N@, SWCHZ	K	7	2286	M L95 U04		646
3510	26	34		SBR	RIGHT, 1&X1	K	7	2293	H M42 0 1		647
3511	26	35		MCW	@N@, STODD	K	7	2300	M L95 K64		647
3512	26	36		B	TEST	K	4	2307	B U35		647
3513	26	37	TABLE	EQU	*&1	K		2311			
3514	26	38		DCW	@R 2E 2D#1L, 15, 0U, 1P, 16, 01, 13, 1@	K	30	2340			648
3515	26	39	A	DCW	@A@	K	1	2341			648
3516	26	40	S	DCW	@S@	K	1	2342			648
3517	26	41	NOPAD	DCW	&@N@	K	3	2345	L95		648
3518	26	42		DCW	@ @ BLANK	K	1	2346			648
3519	26	43	BOX	DCW	@ @ BLANK	K	1	2347			648
3520	26	44		DCW	@ @ BLANK	K	1	2348			648
3521	26	45	GM	DC	@}@	K	1	2349		GMARK	648
3522	26	46		LTORG	*	K			2350		
			CODE	K DCW	#04	K	4	2353		AREA	649
			WORK	K DCW	#10	K	10	2363		AREA	649
			HEX3	K DCW	#03	K	3	2366		AREA	649
			KILL	K DCW	#03	K	3	2369		AREA	649
				DCW	@UPL3165DER@	K	10	2379		LIT	649
			CNTRLK	DCW	#02	K	2	2381		AREA	649
				DCW	@1@	K	1	2382		LIT	649
				DCW	@) }@. # % \$ , * - & @	K	11	2393		LIT	650
				DCW	@B@	K	1	2394		LIT	650
				DCW	@N@	K	1	2395		LIT	650
				DCW	@/@	K	1	2396		LIT	650
				DCW	@?ABCDEFGHI ! JKLMNOPQR@	K	20	2416		LIT	650
				DCW	@<@	K	1	2417		LIT	650

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@_@	K	1	2418		LIT	650
			XPONTK	DCW	#02	K	2	2420		AREA	651
			COUNTK	DCW	#03	K	3	2423		AREA	651
				DCW	,@	K	1	2424		LIT	651
				DCW	&1	K	1	2425		LIT	651
			TOTALK	DCW	#03	K	3	2428		AREA	651
				DCW	&01	K	2	2430		LIT	651
				DCW	&000	K	3	2433		LIT	651
				DCW	@?0?@	K	3	2436		LIT	652
			HEX1 K	DCW	#03	K	3	2439		AREA	652
			RIGHTK	DCW	#03	K	3	2442		AREA	652
			PRESZK	DCW	#02	K	2	2444		AREA	652
				DCW	&2	K	1	2445		LIT	652
				DCW	&00	K	2	2447		LIT	652
				DCW	@A@	K	1	2448		LIT	652
				DCW	@EQUAL SIGN, STATEMENT @	K	22	2470		LIT	653
				DCW	@ERROR 41 - CONSTANT LEFT SIDE OF @	K	33	2503		LIT	654
			BLANKK	DCW	#01	K	1	2504		AREA	654
				DCW	@ERROR 44 - CONSTANT SYNTAX, STATEMENT @	K	38	2542		LIT	655
				DCW	@0@	K	1	2543		LIT	655
			ODDSWK	DCW	#01	K	1	2544		AREA	656
				DCW	&0	K	1	2545		LIT	656
			BUMP K	DCW	#02	K	2	2547		AREA	656
				DCW	@Z@	K	1	2548		LIT	656
				DCW	@ 0@	K	2	2550		LIT	656
				DCW	&001	K	3	2553		LIT	656
				DCW	@ @	K	1	2554		LIT	656
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	K	36	2590		LIT	657
				DCW	@CONST TWO@	K	9	2599		LIT	658
				DCW	@S@	K	1	2600		LIT	658
3523	26	47	SYS1	DCW	@}@	K	1	2601		GMARK	658
3524	26	48		ORG	*&X00	K			2700		
3525	26	49	SAUCE	EQU	*&1	K		2700			
3526	26	50		XFR	INITL	K			B 838		659

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3527	26	51		JOB	1401 FORTRAN CONSTANT PHASE TWO	K					
3528	26	52		FBEGN	CONST TWO,X1,R,X2,,X3,R,O	K				MACRO	
3529				SFX	O	O				GEN	
3530			110	DCW	@CONST TWO@	O	9	0110		GEN	662
3531			X1	EQU	089	O		0089		GEN	
3532			089	DCW	000	O	3	0089		GEN	663
3533			091	DC	00	O	2	0091		GEN	663
3534			X2	EQU	094	O		0094		GEN	
3535			X3	EQU	099	O		0099		GEN	
3536			099	DCW	000	O	3	0099		GEN	664
3537			100	DC	0	O	1	0100		GEN	664
3538	26	53		ORG	XBEGIN	O			0838		
3539	26	54	NXBTM	EQU	083	O		0083			
3540	26	55	NOMO	EQU	PARAM&2	O		0688			
3541	26	56	BASE	DCW	#3	O	3	0840			665
3542	26	57	MAX	DCW	#4	O	4	0844			665
3543	26	58		DC	#1	O	1	0845			665
3544	26	59	UPLIM	DCW	#3	O	3	0848			665
3545	26	60	PHSE2	MCW	X2, X3	O	7	0849	M 094 099		665
3546	26	61		SW	GM2	O	4	0856	, T33		665
3547	26	62	CLR1	CS	000&X3	O	4	0860	/ 0?0		665
3548	26	63		SBR	X3	O	4	0864	H 099		665
3549	26	64		C	X3,&SAUCE-1	O	7	0868	C 099 T68		666
3550	26	65		BU	CLR1	O	5	0875	B 860 /		666
3551	26	66		SBR	X1,SAUCE-1	O	7	0880	H 089 N99		666
3552	26	67	* SHIFT SOURCE PROGRAM UP TO COMPILER PROGRAM								
3553	26	68		MOVUP	X2,X1,NOMO,ALL,	O				MACRO	
3554				MN	0&X1	O	4	0887	D 0 0	GEN	666
3555				SAR	X1	O	4	0891	Q 089	GEN	666
3556			)0J091	MCM	0&X2	O	4	0895	P 0!0	GEN	666
3557				SAR	)0L091&6	O	4	0899	Q 921	GEN	666
3558				MCM	0&X2,1&X1	O	7	0903	P 0!0 0 1	GEN	667
3559				MN		O	1	0910	D	GEN	667
3560				SBR	X1	O	4	0911	H 089	GEN	667
3561			)0L091	SBR	X2,0	O	7	0915	H 094 000	GEN	667
3562				BCE	)0J091,0&X1,	O	8	0922	B 895 0 0	GEN	667
3563				MN	0&X2	O	4	0930	D 0!0	GEN	667
3564				CW		O	1	0934	)	GEN	667
3565				SW	0&X1	O	4	0935	, 0 0	GEN	668
3566				C	X2,NOMO	O	7	0939	C 094 688	GEN	668
3567				BU	)0J091	O	5	0946	B 895 /	GEN	668
3568	26	69		CW	0&X2	O	4	0951	) 0!0		668
3569	26	70		CW		O	1	0955	)		668
3570	26	71		SBR	BASE,1&X1	O	7	0956	H 840 0 1		668
3571	26	72		MN	TWO9,BASE	O	7	0963	D T32 840		668
3572	26	73		MN		O	1	0970	D		669
3573	26	74		MCW	NXBTM,X3	O	7	0971	M 083 099		669
3574	26	75	* CLEAR BALANCE OF CORE								
3575	26	76	CLR2	CS	000&X3	O	4	0978	/ 0?0		669
3576	26	77		SBR	X3	O	4	0982	H 099		669

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3577	26	78		C	X3,BASE	O	7	0986	C 099 840		669
3578	26	79		BU	CLR2	O	5	0993	B 978 /		669
3579	26	80		MCW	@<@,0&X3 12-6-8	O	7	0998	M T69 0?0		669
3580	26	81	*		DIVIDE REST OF CORE FOR TABLES RATIO 3 TO 7						
3581	26	82		MCW	NXBTM,LOC	O	7	1005	M 083 T30		670
3582	26	83		B	UNPAK	O	4	1012	B S56		670
3583	26	84		MCW	NUM#5,MAX&1	O	7	1016	M T74 845		670
3584	26	85		MCW	BASE,LOC	O	7	1023	M 840 T30		670
3585	26	86		B	UNPAK	O	4	1030	B S56		670
3586	26	87		S	NUM,MAX&1	O	7	1034	S T74 845		670
3587	26	88		A	MAX,ACCUM#6	O	7	1041	A 844 T80		671
3588	26	89		A	ACCUM	O	4	1048	A T80		671
3589	26	90		A	MAX,ACCUM 3*MAX IN ACCUM	O	7	1052	A 844 T80		671
3590	26	91	* 1/10		OF NXBTM-BASE IN MAX						
3591	26	92		A	NUM,ACCUM	O	7	1059	A T74 T80		671
3592	26	93		MCW	ACCUM-3,X3	O	7	1066	M T77 099		671
3593	26	94		A	X3	O	4	1073	A 099		671
3594	26	95		MZ	ZON19&X3,ACCUM-2	O	7	1077	Y TC4 T78		672
3595	26	96		MZ	ZON19&1&X3,ACCUM	O	7	1084	Y TC5 T80		672
3596	26	97		MCW	ACCUM,X3	O	7	1091	M T80 099		672
3597	26	98		SW	002&X3	O	4	1098	, 0?2		672
3598	26	99		MCW	@<@ 12-6-8	O	4	1102	M T69		672
3599	27	00		SBR	UPLIM	O	4	1106	H 848		672
3600	27	01		MCW	X1,X2	O	7	1110	M 089 094		673
3601	27	02		MN	0&X2	O	4	1117	D 0!0		673
3602	27	03		SAR	X1	O	4	1121	Q 089		673
3603	27	04		MCW	NXBTM,X3	O	7	1125	M 083 099		673
3604	27	05		LCA	GM2,1&X3	O	7	1132	L T33 0?1		673
3605	27	06		CS	299	O	4	1139	/ 299		673
3606	27	07		MCW	PARAMA&6,X3	O	7	1143	M 692 099		674
3607	27	08		MCW	@0@	O	4	1150	M T81		674
3608	27	09		SW	200	O	4	1154	, 200		674
3609	27	10		MCW	NXBTM,LDFLT&6	O	7	1158	M 083 /71		674
3610	27	11	LDFLT	LCA	199&X3,0	O	7	1165	L 119 000		674
3611	27	12		SBR	NXBTM	O	4	1172	H 083		674
3612	27	13		SBR	LODX&6	O	4	1176	H /94		674
3613	27	14		MN	PARAMA&4,X3	O	7	1180	D 690 099		675
3614	27	15		MN		O	1	1187	D		675
3615	27	16	LODX	LCA	199&X3,0	O	7	1188	L 119 000		675
3616	27	17		SBR	X3	O	4	1195	H 099		675
3617	27	18		SBR	ONEADR	O	4	1199	H 142		675
3618	27	19		LCA	@1@,0&X3	O	7	1203	L T82 0?0		675
3619	27	20		SBR	XEXPON	O	4	1210	H 157		675
3620	27	21		LCA	@A0?@ 0,12-0	O	4	1214	L T85		676
3621	27	22		SBR	NXBTM	O	4	1218	H 083		676
3622	27	23		FENDX	C,GM2,,PHSE2,,PHSE2,SYS2,CONST TRI	O				MACRO	
3623				BSS	333,C	O	5	1222	B 333 C	GEN	676
3624				SBR	INITAP&6,PHSE2	O	7	1227	H 786 849	GEN	676
3625				SBR	BCLEAR	O	4	1234	H 833	GEN	676
3626				SBR	TCLEAR,SYS2	O	7	1238	H 710 T97	GEN	676



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3627				LCA	@CONST TRI@,110	O	7	1245	L T94 110	GEN	676
3628				B	MONTER	O	4	1252	B 700	GEN	677
3629	27	24	UNPAK	SBR	EXIT&3	O	4	1256	H T25		677
3630	27	25		MN	LOC,NUM	O	7	1260	D T30 T74		677
3631	27	26		MN		O	1	1267	D		677
3632	27	27		MN		O	1	1268	D		677
3633	27	28		MCW		O	1	1269	M		677
3634	27	29		MZ	LOC,TWO9	O	7	1270	Y T30 T32		677
3635	27	30		MZ	LOC-2,TWO9-1	O	7	1277	Y T28 T31		678
3636	27	31		NOP	ZON19-3	O	4	1284	N T31		678
3637	27	32		SAR	X3	O	4	1288	Q 099		678
3638	27	33	COMP	C	004&X3,TWO9	O	7	1292	C 0?4 T32		678
3639	27	34		SAR	X3	O	4	1299	Q 099		678
3640	27	35		A	&1,NUM-3	O	7	1303	A T95 T71		678
3641	27	36		BU	COMP	O	5	1310	B S92 /		678
3642	27	37		MZ	@ @,NUM-3	O	7	1315	Y T96 T71		679
3643	27	38	EXIT	B	000	O	4	1322	B 000		679
3644	27	39	LOC	DCW	@0J @	O	5	1330			679
3645	27	40	TWO9	DCW	@99@	O	2	1332			679
3646	27	41	GM2	DC	@}@	O	1	1333		GMARK	679
3647	27	42	ZON19	DC	@9@	O	1	1334			679
3648	27	43		DC	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	O	31	1365			680
3649	27	44		LTORG	*	O			1366		
				DCW	&SAUCEO-1	O	3	1368	N99	ADCON	680
				DCW	@<@	O	1	1369		LIT	680
			NUM O	DCW	#05	O	5	1374		AREA	681
			ACCUMO	DCW	#06	O	6	1380		AREA	681
				DCW	@0@	O	1	1381		LIT	681
				DCW	@1@	O	1	1382		LIT	681
				DCW	@A0?@	O	3	1385		LIT	681
				DCW	@CONST TRI@	O	9	1394		LIT	681
				DCW	&1	O	1	1395		LIT	681
				DCW	@ @	O	1	1396		LIT	682
3650	27	45	SYS2	DCW	@}@	O	1	1397		GMARK	682
3651	27	46		XFR	PHSE2	O			B 849		683

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3652	27	47		JOB	1401 FORTRAN CONSTANT PHASE THREE	O					
3653	27	48	110	DCW	@CONST TRI@	O	9	0110			686
3654	27	49		ORG	PHSE2	O			0849		
3655	27	50		*	DEFINES NORMALIZED CONSTANTS IN SAUCE						
3656	27	51		*	CALCULATING AMOUNT BY WHICH OBJECT TIME ADDRESSES OF						
3657	27	52		*	CONSTANTS, FORMATS, AND LISTS MUST BE REDUCED						
3658	27	53		*	(VIA MA INSTRUCTIONS) BECAUSE OF ARRAY STORAGE						
3659	27	54		*	PLUSDF IS USED IN PHASES 24,26&50						
3660	27	55		*	MACFLS IS USED IN PHASES 20,24,25,26,&50						
3661	27	56	PHSE3	UNPAK	PARAM&2,WK5	O				MACRO	
3662			PHSE3	S	)0M093#2	O	4	0849	S !48	GEN	687
3663				S	)0L093#2	O	4	0853	S !50	GEN	687
3664				MZ	PARAM&2,)0M093-1	O	7	0857	Y 688 !47	GEN	687
3665				MZ	PARAM&2-2,)0L093-1	O	7	0864	Y 686 !49	GEN	687
3666			)0J093	BWZ	)0K093,)0L093-1, 2	O	8	0871	V 890 !49 2	GEN	687
3667				A	@A0@,)0L093	O	7	0879	A !52 !50	GEN	687
3668				B	)0J093	O	4	0886	B 871	GEN	688
3669			)0K093	BWZ	)0P093,)0M093-1, 2	O	8	0890	V 909 !47 2	GEN	688
3670				A	@?4@,)0M093	O	7	0898	A !54 !48	GEN	688
3671				B	)0K093	O	4	0905	B 890	GEN	688
3672			)0P093	A	)0L093-1,)0M093	O	7	0909	A !49 !48	GEN	688
3673				MCW	PARAM&2,WK5	O	7	0916	M 688 !71	GEN	688
3674				MCW	)0M093	O	4	0923	M !48	GEN	689
3675				ZA	WK5	O	4	0927	? !71	GEN	689
3676				MZ	*-4, WK5	O	7	0931	Y 933 !71	GEN	689
3677	27	57		MCW	X2,SAVX2#3 SAVE X2	O	7	0938	M 094 !57		689
3678	27	58		UNPAK	CONLST,CNLS5	O				MACRO	
3679				S	)0M094#2	O	4	0945	S !59	GEN	689
3680				S	)0L094#2	O	4	0949	S !61	GEN	689
3681				MZ	CONLST,)0M094-1	O	7	0953	Y 194 !58	GEN	689
3682				MZ	CONLST-2,)0L094-1	O	7	0960	Y 192 !60	GEN	690
3683			)0J094	BWZ	)0K094,)0L094-1, 2	O	8	0967	V 986 !60 2	GEN	690
3684				A	@A0@,)0L094	O	7	0975	A !52 !61	GEN	690
3685				B	)0J094	O	4	0982	B 967	GEN	690
3686			)0K094	BWZ	)0P094,)0M094-1, 2	O	8	0986	V !05 !58 2	GEN	690
3687				A	@?4@,)0M094	O	7	0994	A !54 !59	GEN	691
3688				B	)0K094	O	4	1001	B 986	GEN	691
3689			)0P094	A	)0L094-1,)0M094	O	7	1005	A !60 !59	GEN	691
3690				MCW	CONLST,CNLS5	O	7	1012	M 194 !66	GEN	691
3691				MCW	)0M094	O	4	1019	M !59	GEN	691
3692				ZA	CNLS5	O	4	1023	? !66	GEN	691
3693				MZ	*-4, CNLS5	O	7	1027	Y !29 !66	GEN	692
3694	27	59		S	CNLS5#5,WK5#5	O	7	1034	S !66 !71		692
3695	27	60		C	@0000?@,WK5 PLUS ZERO	O	7	1041	C !76 !71		692
3696	27	61		BE	RSX2	O	5	1048	B /61 S		692
3697	27	62		FPACK	WK5,PLUSDF,X2	O				MACRO	
3698				INCLD	ZONES	O				MACRO	
3699				MN	WK5,PLUSDF	O	7	1053	D !71 160	GEN	692
3700				MN		O	1	1060	D	GEN	692
3701				MN		O	1	1061	D	GEN	692

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3702				SAR	* &4	O	4	1062	Q   69	GEN	693
3703				MCW	0, X2	O	7	1066	M 000 094	GEN	693
3704				MCW	@0@	O	4	1073	M ! 77	GEN	693
3705				A	X2	O	4	1077	A 094	GEN	693
3706				MZ	ZONES&1&X2, PLUSDF	O	7	1081	Y ! J6 160	GEN	693
3707				CW		O	1	1088	)	GEN	693
3708				SBR	* &7	O	4	1089	H   99	GEN	693
3709				MZ	ZONES&X2, 0	O	7	1093	Y ! J5 000	GEN	694
3710	27	63		MCW	@16000@, MCFL5#5	O	7	1100	M ! 82 ! 87		694
3711	27	64		S	WK5, MCFL5	O	7	1107	S ! 71 ! 87		694
3712	27	65		FPACK	MCFL5, MACFLS, X2	O				MACRO	
3713				INCLD	ZONES	O				MACRO	
3714				MN	MCFL5, MACFLS	O	7	1114	D ! 87 163	GEN	694
3715				MN		O	1	1121	D	GEN	694
3716				MN		O	1	1122	D	GEN	694
3717				SAR	* &4	O	4	1123	Q / 30	GEN	694
3718				MCW	0, X2	O	7	1127	M 000 094	GEN	695
3719				MCW	@0@	O	4	1134	M ! 77	GEN	695
3720				A	X2	O	4	1138	A 094	GEN	695
3721				MZ	ZONES&1&X2, MACFLS	O	7	1142	Y ! J6 163	GEN	695
3722				CW		O	1	1149	)	GEN	695
3723				SBR	* &7	O	4	1150	H / 60	GEN	695
3724				MZ	ZONES&X2, 0	O	7	1154	Y ! J5 000	GEN	695
3725	27	66	RSX2	MCW	SAVX2, X2	O	7	1161	M ! 57 094		696
3726	27	67		MA	MACFLS, ONEADR	O	7	1168	# 163 142		696
3727	27	68		MA	MACFLS, XEXPON	O	7	1175	# 163 157		696
3728	27	69		MCW	BASE, BUMP&3	O	7	1182	M 840 U82		696
3729	27	70		MZ	@S@, BUMP&2	O	7	1189	Y ! 88 U81		696
3730	27	71		MCW	X2, HEX1#3	O	7	1196	M 094 ! 91		697
3731	27	72		MCW	@ @, SAUCE-1	O	7	1203	M ! 92 N99		697
3732	27	73	START	BCE	OUT, 000&X1, BLANK	O	8	1210	B X76 0   0		697
3733	27	74		MCW	000&X1, CODE#4	O	7	1218	M 0   0 ! 96		697
3734	27	75		LCA	000&X1, WORK#10	O	7	1225	L 0   0 J06		697
3735	27	76		SAR	X1	O	4	1232	Q 089		698
3736	27	77		SBR	X3	O	4	1236	H 099		698
3737	27	78		LCA	WORK, 000&X2	O	7	1240	L J06 0 ! 0		698
3738	27	79		SBR	X2	O	4	1247	H 094		698
3739	27	80		BCE	PASS, CODE-3, /	O	8	1251	B X46 ! 93 /		698
3740	27	81	FIND	BCE	SEEK, 000&X1, _	O	8	1259	B S93 0   0 _		698
3741	27	82		CHAIN	5	O				MACRO	
3742				BCE		O	1	1267	B	GEN	698
3743				BCE		O	1	1268	B	GEN	699
3744				BCE		O	1	1269	B	GEN	699
3745				BCE		O	1	1270	B	GEN	699
3746				BCE		O	1	1271	B	GEN	699
3747	27	83		BCE	PASS, 000&X1, }	O	8	1272	B X46 0   0 }	GMARK	699
3748	27	84		CHAIN	5	O				MACRO	
3749				BCE		O	1	1280	B	GEN	699
3750				BCE		O	1	1281	B	GEN	699
3751				BCE		O	1	1282	B	GEN	700

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3752				BCE		O	1	1283	B	GEN	700
3753				BCE		O	1	1284	B	GEN	700
3754	27	85		SBR	X1	O	4	1285	H 089		700
3755	27	86		B	FIND	O	4	1289	B S59		700
3756	27	87	SEEK	BCE	FOUND,000&X1, _	O	8	1293	B T09 0 0 _		700
3757	27	88		SBR	X1	O	4	1301	H 089		700
3758	27	89		B	SEEK	O	4	1305	B S93		701
3759	27	90	FOUND	SW	001&X1	O	4	1309	, 0 1		701
3760	27	91		CW		O	1	1313	)		701
3761	27	92		CW		O	1	1314	)		701
3762	27	93		CW		O	1	1315	)		701
3763	27	94		SAR	X1	O	4	1316	Q 089		701
3764	27	95		BCE	COPY, 004&X1, }	O	8	1320	B T43 0 4 } GMARK		701
3765	27	96		LCA	000&X3,000&X2	O	7	1328	L 0?0 0 0		702
3766	27	97		SBR	X2	O	4	1335	H 094		702
3767	27	98		CW	001&X2	O	4	1339	) 0!1		702
3768	27	99	COPY	SBR	X3,2&X1	O	7	1343	H 099 0 2		702
3769	28	00	LIMIT	MCW	000&X1,BOX#1	O	7	1350	M 0 0 J07		702
3770	28	01		SAR	X1	O	4	1357	Q 089		702
3771	28	02		MCW	BOX, *&8	O	7	1361	M J07 T75		703
3772	28	03		BCE	RANDM,@# }@*-& )\$, @, 0	O	8	1368	B T88 J16 0		703
3773	28	04		CHAIN	8	O				MACRO	
3774				BCE		O	1	1376	B	GEN	703
3775				BCE		O	1	1377	B	GEN	703
3776				BCE		O	1	1378	B	GEN	703
3777				BCE		O	1	1379	B	GEN	703
3778				BCE		O	1	1380	B	GEN	703
3779				BCE		O	1	1381	B	GEN	704
3780				BCE		O	1	1382	B	GEN	704
3781				BCE		O	1	1383	B	GEN	704
3782	28	05		B	LIMIT	O	4	1384	B T50		704
3783	28	06	RANDM	SW	002&X1	O	4	1388	, 0 2		704
3784	28	07		ZA	000&X3,MOD#4	O	7	1392	? 0?0 J20		704
3785	28	08		A	004&X1,MOD	O	7	1399	A 0 4 J20		704
3786	28	09		BCE	SQUOZ,002&X1, BLANK, 1 CHAR FIXED PT. NUM	O	8	1406	B X04 0 2		705
3787	28	10	STRIP	MZ	@ @,MOD	O	7	1414	Y J24 J20		705
3788	28	11		MZ		O	1	1421	Y		705
3789	28	12		MZ		O	1	1422	Y		705
3790	28	13		MCW	3 DIGIT NO. IN MOD	O	1	1423	M		705
3791	28	14	SUBTR	S	MAX,MOD	O	7	1424	S 844 J20		705
3792	28	15		BWZ	SUBTR,MOD,B	O	8	1431	V U24 J20 B		705
3793	28	16		A	MAX,MOD	O	7	1439	A 844 J20		706
3794	28	17		MZ	@ @,MOD BLANK	O	7	1446	Y !92 J20		706
3795	28	18		MCW	X2,HEX2#8	O	7	1453	M 094 J32		706
3796	28	19		MCW	STORES X1	O	1	1460	M		706
3797	28	20		MCW	MOD,X1	O	7	1461	M J20 089		706
3798	28	21		A	X1	O	4	1468	A 089		706
3799	28	22		A	MOD,X1	O	7	1472	A J20 089		707
3800	28	23	BUMP	NOP	000 BASE & 3*MOD IN X1, TABLE 1 ENTRY ADDRESS	O	4	1479	N 000		707
3801	28	24		SAR	X1	O	4	1483	Q 089		707

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3802	28	25		MCW	@N@,OVFLW	O	7	1487	M J33 W71		707
3803	28	26	CHAIN	BCE	NEW,000&X1, BLANK, CONST NOT YET ENCOUNTERED	O	8	1494	B W26 0 0		707
3804	28	27		BCE	OVFLW,000&X1,< 12-6-8	O	8	1502	B W71 0 0 <		707
3805	28	28		MCW	000&X1,X2	O	7	1510	M 0 0 094		708
3806	28	29		SAR	X1	O	4	1517	Q 089		708
3807	28	30		C	000&X3,000&X2	O	7	1521	C 0?0 0!0		708
3808	28	31		BU	CHAIN	O	5	1528	B U94 /		708
3809	28	32		C	000&X2,000&X3	O	7	1533	C 0!0 0?0		708
3810	28	33		BU	CHAIN	O	5	1540	B U94 /		708
3811	28	34	RESTR	MCW	X2,TEMP#3	O	7	1545	M 094 J36		709
3812	28	35		MCW	TEMP,TEMP2 COMPUTE CORRECT CONSTANT ADDRS. BEFORE	O	7	1552	M J36 J39		709
3813	28	36		MA	MACFLS,TEMP PUTTING THEM IN ARITHMETIC STRINGS.	O	7	1559	# 163 J36		709
3814	28	37		MCW	HEX2,X2	O	7	1566	M J32 094		709
3815	28	38		MCW		O	1	1573	M		709
3816	28	39		LCA	TEMP,0&X2	O	7	1574	L J36 0!0		709
3817	28	40		SBR	X2	O	4	1581	H 094		710
3818	28	41		CW	001&X2	O	4	1585	) 0!1		710
3819	28	42		MCW	TEMP2#3,*&7	O	7	1589	M J39 W02		710
3820	28	43		BWZ	FIXED,0,2	O	8	1596	V W93 000 2		710
3821	28	44		MZ	@ @,002&X2	O	7	1604	Y !92 0!2		710
3822	28	45	BOTM	SBR	X1,1&X1	O	7	1611	H 089 0 1		710
3823	28	46		SBR	X3	O	4	1618	H 099		711
3824	28	47		B	FIND	O	4	1622	B S59		711
3825	28	48	NEW	MCW	NXBTM,X2	O	7	1626	M 083 094		711
3826	28	49		MCW	NXBTM,000&X1	O	7	1633	M 083 0 0		711
3827	28	50		MCW	000&X3,000&X2	O	7	1640	M 0?0 0!0		711
3828	28	51		SBR	X1	O	4	1647	H 089		711
3829	28	52		SBR	NXBTM	O	4	1651	H 083		711
3830	28	53		BCE	FULL,000&X1,< 12-6-8	O	8	1655	B X12 0 0 <		712
3831	28	54		SW	001&X1	O	4	1663	, 0 1		712
3832	28	55		B	RESTR	O	4	1667	B V45		712
3833	28	56	OVFLW	NOP	FULL	O	4	1671	N X12		712
3834	28	57		MCW	@S@,OVFLW	O	7	1675	M !88 W71		712
3835	28	58		MCW	UPLIM,X1	O	7	1682	M 848 089		712
3836	28	59		B	CHAIN	O	4	1689	B U94		712
3837	28	60	FIXED	MZ	*-6,2&X2	O	7	1693	Y W93 0!2		713
3838	28	61		B	BOTM	O	4	1700	B W11		713
3839	28	62	SQUOZ	SW	003&X1	O	4	1704	, 0 3		713
3840	28	63		B	STRIP	O	4	1708	B U14		713
3841	28	64	FULL	FQUIT		O				MACRO	
3842			FULL	CS	332	O	4	1712	/ 332	GEN	713
3843				CS		O	1	1716	/	GEN	713
3844				CC	1	O	2	1717	F 1	GEN	713
3845				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	O	7	1719	M J75 270	GEN	714
3846				W		O	1	1726	2	GEN	714
3847				CC	1	O	2	1727	F 1	GEN	714
3848				BCE	*&6,MONTOR,1	O	8	1729	B X42 769 1	GEN	714
3849				RWD	1	O	5	1737	U %U1 R	GEN	714
3850				H	*-3	O	4	1742	. X42	GEN	714
3851	28	65	PASS	MVDWN	X3,X2	O				MACRO	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3852			PASS	LCA	0&X3,0&X2	O	7	1746	L 0?0 0!0	GEN	714
3853				SAR	X3	O	4	1753	Q 099	GEN	715
3854				C	0&X2	O	4	1757	C 0!0	GEN	715
3855				SAR	X2	O	4	1761	Q 094	GEN	715
3856	28	66		MCW	X3,X1	O	7	1765	M 099 089		715
3857	28	67		B	START	O	4	1772	B S10		715
3858	28	68	OUT	MCW	HEX1,X1	O	7	1776	M !91 089		715
3859	28	69		CS	332	O	4	1783	/ 332		715
3860	28	70		CS		O	1	1787	/		716
3861	28	71		MCW	@CONSTANTS LOCATED FROM @,223	O	7	1788	M J98 223		716
3862	28	72		UNPAK	NXBTM,WK51	O				MACRO	
3863				S	)0M099#2	O	4	1795	S K00	GEN	716
3864				S	)0L099#2	O	4	1799	S K02	GEN	716
3865				MZ	NXBTM,)0M099-1	O	7	1803	Y 083 J99	GEN	716
3866				MZ	NXBTM-2,)0L099-1	O	7	1810	Y 081 K01	GEN	716
3867			)0J099	BWZ	)0K099,)0L099-1, 2	O	8	1817	V Y36 K01 2	GEN	716
3868				A	@A0@,)0L099	O	7	1825	A !52 K02	GEN	717
3869				B	)0J099	O	4	1832	B Y17	GEN	717
3870			)0K099	BWZ	)0P099,)0M099-1, 2	O	8	1836	V Y55 J99 2	GEN	717
3871				A	@?4@,)0M099	O	7	1844	A !54 K00	GEN	717
3872				B	)0K099	O	4	1851	B Y36	GEN	717
3873			)0P099	A	)0L099-1,)0M099	O	7	1855	A K01 K00	GEN	717
3874				MCW	NXBTM,WK51	O	7	1862	M 083 K08	GEN	718
3875				MCW	)0M099	O	4	1869	M K00	GEN	718
3876				ZA	WK51	O	4	1873	? K08	GEN	718
3877				MZ	*-4, WK51	O	7	1877	Y Y79 K08	GEN	718
3878	28	73		S	WK5,WK51	O	7	1884	S !71 K08		718
3879	28	74		MZ	@ @,WK51	O	7	1891	Y !92 K08		718
3880	28	75		A	&1,WK51#5	O	7	1898	A K03 K08		719
3881	28	76		MCW	NXBTM,X3	O	7	1905	M 083 099		719
3882	28	77		MA	MACFLS,X3	O	7	1912	# 163 099		719
3883	28	78		SBR	X3,1&X3	O	7	1919	H 099 0?1		719
3884	28	79		MCW	CONLST,247	O	7	1926	M 194 247		719
3885	28	80		MCW	@-@	O	4	1933	M K09		719
3886	28	81		MCW	X3	O	4	1937	M 099		720
3887	28	82		MCW	@ @	O	4	1941	M K12		720
3888	28	83		MCW	CNLS5	O	4	1945	M !66		720
3889	28	84		MCW	@ TO @	O	4	1949	M K16		720
3890	28	85		MCW	WK51	O	4	1953	M K08		720
3891	28	86		CC	J	O	2	1957	F J		720
3892	28	87		W		O	1	1959	2		720
3893	28	88		CC	J	O	2	1960	F J		721
3894	28	89		FORMS		O				MACRO	
3895				BCV	*&5	O	5	1962	B Z71 @	GEN	721
3896				B	*&3	O	4	1967	B Z73	GEN	721
3897				CC	1	O	2	1971	F 1	GEN	721
3898	28	90		FENDX	D,, ,XBEGIN,XBEGIN,XBEGIN,SAUCE-2,SUBSCR	O				MACRO	
3899				BSS	333,D	O	5	1973	B 333 D	GEN	721
3900				SBR	INITAP&6,XBEGIN	O	7	1978	H 786 838	GEN	721
3901				SBR	BCLEAR	O	4	1985	H 833	GEN	721

REMOVE SIGN

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3902				SBR	INITXT&3,XBEGIN	O	7	1989	H 796 838	GEN	722
3903				SBR	TCLEAR,SAUCE-2	O	7	1996	H 710 N98	GEN	722
3904				LCA	@SUBSCR@,110	O	7	2003	L K22 110	GEN	722
3905				B	MONTER	O	4	2010	B 700	GEN	722
3906	28	91		ORG	*	O			2014		
3907				LTORG	* WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG	O			2014		
3908				DCW	#1	O	1	2014		GEN	722
3909			ZONES	DC	9	O	1	2015		GEN	722
3910				DCW	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	O	31	2046		GEN	723
			*	LTORG*						GEN	
			)0M093	DCW	#02	O	2	2048		AREA	723
			)0L093	DCW	#02	O	2	2050		AREA	723
				DCW	@A0@	O	2	2052		LIT	723
				DCW	@?4@	O	2	2054		LIT	723
			SAVX20	DCW	#03	O	3	2057		AREA	724
			)0M094	DCW	#02	O	2	2059		AREA	724
			)0L094	DCW	#02	O	2	2061		AREA	724
			CNLS50	DCW	#05	O	5	2066		AREA	724
			WK5	O DCW	#05	O	5	2071		AREA	724
				DCW	@0000?@	O	5	2076		LIT	724
				DCW	@0@	O	1	2077		LIT	724
				DCW	@16000@	O	5	2082		LIT	725
			MCFL50	DCW	#05	O	5	2087		AREA	725
				DCW	@S@	O	1	2088		LIT	725
			HEX1	O DCW	#03	O	3	2091		AREA	725
				DCW	@ @	O	1	2092		LIT	725
			CODE	O DCW	#04	O	4	2096		AREA	725
			WORK	O DCW	#10	O	10	2106		AREA	725
			BOX	O DCW	#01	O	1	2107		AREA	726
				DCW	@#}@*-&)\$,@	O	9	2116		LIT	726
			MOD	O DCW	#04	O	4	2120		AREA	726
				DCW	@ @	O	4	2124		LIT	726
			HEX2	O DCW	#08	O	8	2132		AREA	726
				DCW	@N@	O	1	2133		LIT	726
			TEMP	O DCW	#03	O	3	2136		AREA	726
			TEMP20	DCW	#03	O	3	2139		AREA	727
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	O	36	2175		LIT	727
				DCW	@CONSTANTS LOCATED FROM @	O	23	2198		LIT	728
			)0M099	DCW	#02	O	2	2200		AREA	728
			)0L099	DCW	#02	O	2	2202		AREA	728
				DCW	&1	O	1	2203		LIT	728
			WK51	O DCW	#05	O	5	2208		AREA	728
				DCW	@-@	O	1	2209		LIT	728
				DCW	@ @	O	3	2212		LIT	728
				DCW	@ TO @	O	4	2216		LIT	729
				DCW	@SUBSCR@	O	6	2222		LIT	729
3911	28	92		DCW	@}@	O	1	2223		GMARK	729
					SYSTEM GROUP MARK						
3912	28	93		ORG	TAMAXT&X00	O			2600		
3913	28	94	SAUCE	EQU	*&1	O		2600			
3914	28	95		XFR	PHSE3	O			B 849		730

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3915	28	96		JOB	1401 FORTRAN SUBSCRIPTS PHASE	O					
3916	28	97		FBEGN	SUBSCR,X1,,X2,,X3,R,W	O				MACRO	
3917				SFX	W	W				GEN	
3918			110	DCW	@SUBSCR@	W	6	0110		GEN	733
3919			X1	EQU	089	W		0089		GEN	
3920			X2	EQU	094	W		0094		GEN	
3921			X3	EQU	099	W		0099		GEN	
3922			099	DCW	000	W	3	0099		GEN	734
3923			100	DC	0	W	1	0100		GEN	734
3924	28	98		ORG	XBEGIN	W			0838		
3925	28	99	*	SQUEEZE	ADDRESSES BETWEEN \$ SIGNS TOGETHER, ERROR CHECK						
3926	29	00	INITL	CS	0&X2	W	4	0838	/ 0!0		735
3927	29	01		CS		W	1	0842	/		735
3928	29	02		SBR	X2,1&X1	W	7	0843	H 094 0 1		735
3929	29	03		SBR	HEX1#3	W	4	0850	H /94		735
3930	29	04	START	BCE	OUT,000&X1, BLANK	W	8	0854	B /39 0 0		735
3931	29	05		MCW	000&X1, CODE#4	W	7	0862	M 0 0 /98		735
3932	29	06		B	SLIDE X2 INITIALLY GREATER THAN X1	W	4	0869	B  64		735
3933	29	07		BCE	PASS, CODE-3, /	W	8	0873	B /31 /95 /		736
3934	29	08		BCE	PASS, CODE-3, F	W	8	0881	B /31 /95 F		736
3935	29	09	FIND	BCE	SEEK, 000&X1, \$	W	8	0889	B 923 0 0 \$		736
3936	29	10		CHAIN	5	W				MACRO	
3937				BCE		W	1	0897	B	GEN	736
3938				BCE		W	1	0898	B	GEN	736
3939				BCE		W	1	0899	B	GEN	736
3940				BCE		W	1	0900	B	GEN	736
3941				BCE		W	1	0901	B	GEN	737
3942	29	11		BWZ	FNISH, 000&X1, 1 WORD MK	W	8	0902	V /24 0 0 1		737
3943	29	12		CHAIN	5	W				MACRO	
3944				BWZ		W	1	0910	V	GEN	737
3945				BWZ		W	1	0911	V	GEN	737
3946				BWZ		W	1	0912	V	GEN	737
3947				BWZ		W	1	0913	V	GEN	737
3948				BWZ		W	1	0914	V	GEN	737
3949	29	13		SBR	X1	W	4	0915	H 089		738
3950	29	14		B	FIND	W	4	0919	B 889		738
3951	29	15	SEEK	BCE	FOUND, 000&X1, \$	W	8	0923	B 939 0 0 \$		738
3952	29	16		SBR	X1	W	4	0931	H 089		738
3953	29	17		B	SEEK	W	4	0935	B 923		738
3954	29	18	FOUND	SW	000&X1	W	4	0939	, 0 0		738
3955	29	19		B	SEND	W	4	0943	B /69		738
3956	29	20		MN	000&X1	W	4	0947	D 0 0		739
3957	29	21		SAR	X1	W	4	0951	Q 089		739
3958	29	22		B	DROP4	W	4	0955	B  98		739
3959	29	23	SQUOZ	SW	2&X1	W	4	0959	, 0 2		739
3960	29	24		B	SEND	W	4	0963	B /69		739
3961	29	25		B	DROP4	W	4	0967	B  98		739
3962	29	26		BWZ	CPAR, 3&X1, S	W	8	0971	V  21 0 3 S		739
3963	29	27		BWZ	CPAR, 3&X1, K	W	8	0979	V  21 0 3 K		740
3964	29	28		FTMSG	12, FLOATING POINT SUBSCRIPT, CODE, 26	W				MACRO	



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
3965				CS	332	W	4	0987	/ 332	GEN	740
3966				CS		W	1	0991	/	GEN	740
3967				SW	FAILSW	W	4	0992	, 184	GEN	740
3968				MN	CODE,224&26	W	7	0996	D /98 250	GEN	740
3969				MN		W	1	1003	D	GEN	740
3970				MN		W	1	1004	D	GEN	740
3971				MCW	@ERROR 12 - FLOATING POINT SUBSCRIPT, STATEMENT @	W	4	1005	M S45	GEN	741
3972				W		W	1	1009	2	GEN	741
3973				BCV	*&5	W	5	1010	B  19 @	GEN	741
3974				B	*&3	W	4	1015	B  21	GEN	741
3975				CC	1	W	2	1019	F 1	GEN	741
3976	29	29	CPAR	SW	2&X1	W	4	1021	, 0 2		741
3977	29	30		B	SEND	W	4	1025	B /69		741
3978	29	31		B	DROP4	W	4	1029	B  98		742
3979	29	32		C	001&X1,@\$@	W	7	1033	C 0 1 S46		742
3980	29	33		BU	SQUOZ	W	5	1040	B 959 /		742
3981	29	34		SW	001&X1	W	4	1045	, 0 1		742
3982	29	35		B	SEND	W	4	1049	B /69		742
3983	29	36		MCW	X1,X3	W	7	1053	M 089 099		742
3984	29	37		B	FIND	W	4	1060	B 889		742
3985	29	38	SLIDE	SBR	EXSLD&3	W	4	1064	H  97		743
3986	29	39		MVDWN	X1,X2	W				MACRO	
3987				LCA	0&X1,0&X2	W	7	1068	L 0 0 0!0	GEN	743
3988				SAR	X1	W	4	1075	Q 089	GEN	743
3989				C	0&X2	W	4	1079	C 0!0	GEN	743
3990				SAR	X2	W	4	1083	Q 094	GEN	743
3991	29	40		MCW	X1,X3	W	7	1087	M 089 099		743
3992	29	41	EXSLD	B	000	W	4	1094	B 000		743
3993	29	42	DROP4	SBR	EXDRP&3	W	4	1098	H /23		744
3994	29	43		MCW	X1,X3	W	7	1102	M 089 099		744
3995	29	44		MN	0&X1	W	4	1109	D 0 0		744
3996	29	45		CHAIN	3	W				MACRO	
3997				MN		W	1	1113	D	GEN	744
3998				MN		W	1	1114	D	GEN	744
3999				MN		W	1	1115	D	GEN	744
4000	29	46		SBR	X1	W	4	1116	H 089		744
4001	29	47	EXDRP	B	000	W	4	1120	B 000		745
4002	29	48	FNISH	MCW	X3,X1	W	7	1124	M 099 089		745
4003	29	49	PASS	B	SLIDE	W	4	1131	B  64		745
4004	29	50		B	START	W	4	1135	B 854		745
4005	29	51	OUT	MCW	HEX1,X1	W	7	1139	M /94 089		745
4006	29	52		FENDX	C,,,,,SYS1,STNUM ONE	W				MACRO	
4007				BSS	333,C	W	5	1146	B 333 C	GEN	745
4008				SBR	TCLEAR,SYS1	W	7	1151	H 710 S56	GEN	745
4009				LCA	@STNUM ONE@,110	W	7	1158	L S55 110	GEN	746
4010				B	MONTER	W	4	1165	B 700	GEN	746
4011	29	53	SEND	SBR	EXSND&3	W	4	1169	H /91		746
4012	29	54		LCA	000&X3,000&X2	W	7	1173	L 0?0 0!0		746
4013	29	55		SBR	X2	W	4	1180	H 094		746
4014	29	56		CW	001&X2	W	4	1184	) 0!1		746

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4015	29	57	EXSND	B	000	W	4	1188	B 000		746
4016	29	58		LTORG	*	W			1192		
			HEX1	W	DCW #03	W	3	1194		AREA	747
			CODE	W	DCW #04	W	4	1198		AREA	747
				DCW	@ERROR 12 - FLOATING POINT SUBSCRIPT, STATEMENT @	W	47	1245		LIT	749
				DCW	@\$@	W	1	1246		LIT	749
				DCW	@STNUM ONE@	W	9	1255		LIT	749
4017	29	59	SYS1	DCW	@}@	W	1	1256		GMARK	749
4018	29	60		XFR	INITL	W			B 838		750

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4019	29	61		JOB	1401 FORTRAN STATEMENT NUMBER PHASE ONE	W					
4020	29	62		FBEGN	STNUM ONE,X1,,X2,,X3,R,M	W				MACRO	
4021				SFX	M	M				GEN	
4022			110	DCW	@STNUM ONE@	M	9	0110		GEN	753
4023			X1	EQU	089	M		0089		GEN	
4024			X2	EQU	094	M		0094		GEN	
4025			X3	EQU	099	M		0099		GEN	
4026			099	DCW	000	M	3	0099		GEN	754
4027			100	DC	0	M	1	0100		GEN	754
4028	29	63		ORG	XBEGIN	M			0838		
4029	29	64	NXBTM	EQU	083	M		0083			
4030	29	65	INITL	CS	0&X2	M	4	0838	/ 0!0		755
4031	29	66		MCW	NXBTM,X2	M	7	0842	M 083 094		755
4032	29	67		SW	GM	M	4	0849	, Y83		755
4033	29	68		LCA	GM,000&X2	M	7	0853	L Y83 0!0		755
4034	29	69		SBR	X2	M	4	0860	H 094		755
4035	29	70	START	BCE	OUT,000&X1, BLANK	M	8	0864	B Y52 0!0		755
4036	29	71		LCA	000&X1,WORK1#10	M	7	0872	L 0!0 Z62		756
4037	29	72		SAR	X1	M	4	0879	Q 089		756
4038	29	73		CW	001&X1	M	4	0883	) 0!1		756
4039	29	74		SW	WORK1-3	M	4	0887	, Z59		756
4040	29	75		LCA	WORK1,000&X2	M	7	0891	L Z62 0!0		756
4041	29	76		SBR	X2	M	4	0898	H 094		756
4042	29	77		CW	001&X2	M	4	0902	) 0!1		756
4043	29	78		BWZ	LABEL,WORK1-4,2 NO ZONE	M	8	0906	V !03 Z58 2		757
4044	29	79	TOP	LCA	GM,000&X2	M	7	0914	L Y83 0!0		757
4045	29	80		SBR	X2	M	4	0921	H 094		757
4046	29	81		MCW	WORK1-3,TEST&7	M	7	0925	M Z59 939		757
4047	29	82	TEST	BCE	WORRY,@WT65UPLDEGK@,0	M	8	0932	B !26 Z73 0		757
4048	29	83		CHAIN	10	M				MACRO	
4049				BCE		M	1	0940	B	GEN	757
4050				BCE		M	1	0941	B	GEN	757
4051				BCE		M	1	0942	B	GEN	758
4052				BCE		M	1	0943	B	GEN	758
4053				BCE		M	1	0944	B	GEN	758
4054				BCE		M	1	0945	B	GEN	758
4055				BCE		M	1	0946	B	GEN	758
4056				BCE		M	1	0947	B	GEN	758
4057				BCE		M	1	0948	B	GEN	758
4058				BCE		M	1	0949	B	GEN	759
4059	29	84		BCE	KILL,WORK1-3,/	M	8	0950	B 981 Z59 /		759
4060	29	85	BOTM	MVDWN	X1,X2	M				MACRO	
4061			BOTM	LCA	0&X1,0&X2	M	7	0958	L 0!0 0!0	GEN	759
4062				SAR	X1	M	4	0965	Q 089	GEN	759
4063				C	0&X2	M	4	0969	C 0!0	GEN	759
4064				SAR	X2	M	4	0973	Q 094	GEN	759
4065	29	86		B	START	M	4	0977	B 864		759
4066	29	87	KILL	C	0&X1	M	4	0981	C 0!0		760
4067	29	88		SAR	X1	M	4	0985	Q 089		760
4068	29	89		MCM	4&X2	M	4	0989	P 0!4		760

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4069	29	90		MN		M	1	0993	D		760
4070	29	91		MN		M	1	0994	D		760
4071	29	92		SAR	X2	M	4	0995	Q 094		760
4072	29	93		B	START	M	4	0999	B 864		760
4073	29	94	LABEL	LCA	WORK1-4,STATE#6	M	7	1003	L Z58 Z79		761
4074	29	95		SBR	X3	M	4	1010	H 099		761
4075	29	96		SW	002&X3	M	4	1014	, 0?2		761
4076	29	97		B	ALPHA	M	4	1018	B V63		761
4077	29	98		B	TOP	M	4	1022	B 914		761
4078	29	99	WORRY	B	IFEXP,WORK1-3,E	M	8	1026	B T62 Z59 E		761
4079	30	00		BCE	DO,WORK1-3,D	M	8	1034	B S76 Z59 D		761
4080	30	01		BCE	INOUT,WORK1-3,5	M	8	1042	B /30 Z59 5		762
4081	30	02		BCE	INOUT,WORK1-3,6	M	8	1050	B /30 Z59 6		762
4082	30	03		BCE	PUTE,WORK1-3,T	M	8	1058	B  90 Z59 T		762
4083	30	04		BCE	SENSE,WORK1-3,W	M	8	1066	B /93 Z59 W		762
4084	30	05		BCE	SENSE,WORK1-3,K	M	8	1074	B /93 Z59 K		763
4085	30	06		B	GRAB1	M	4	1082	B U73		763
4086	30	07		B	BOTM	M	4	1086	B 958		763
4087	30	08	PUTE	B	GRAB1	M	4	1090	B U73		763
4088	30	09		BCE	OVER,000&X1,)	M	8	1094	B /18 0 0 )		763
4089	30	10		BCE	SYNER,0&X1,}	M	8	1102	B X55 0 0 } GMARK		763
4090	30	11		SBR	X1	M	4	1110	H 089		764
4091	30	12		B	PUTE	M	4	1114	B  90		764
4092	30	13	OVER	MN	000&X1	M	4	1118	D 0 0		764
4093	30	14		SAR	X1	M	4	1122	Q 089		764
4094	30	15		B	BOTM	M	4	1126	B 958		764
4095	30	16	INOUT	MCW	X1,LOAD&3	M	7	1130	M 089 /77		764
4096	30	17	FIND	BCE	TPNAM,000&X1,,	M	8	1137	B /61 0 0 ,		764
4097	30	18		BCE	SYNER,0&X1,}	M	8	1145	B X55 0 0 } GMARK		765
4098	30	19		SBR	X1	M	4	1153	H 089		765
4099	30	20		B	FIND	M	4	1157	B /37		765
4100	30	21	TPNAM	SW	001&X1	M	4	1161	, 0 1		765
4101	30	22		MN		M	1	1165	D		765
4102	30	23		SAR	X1	M	4	1166	Q 089		765
4103	30	24		B	GRAB1	M	4	1170	B U73		765
4104	30	25	LOAD	LCA	000,000&X2	M	7	1174	L 000 0!0		766
4105	30	26		SBR	X2	M	4	1181	H 094		766
4106	30	27		CW	001&X2	M	4	1185	) 0!1		766
4107	30	28		B	BOTM	M	4	1189	B 958		766
4108	30	29	SENSE	MCW	X1,LOAD&3	M	7	1193	M 089 /77		766
4109	30	30	FIND2	BCE	WITCH,000&X1,)	M	8	1200	B S24 0 0 )		766
4110	30	31		BCE	SYNER,0&X1,}	M	8	1208	B X55 0 0 } GMARK		767
4111	30	32		SBR	X1	M	4	1216	H 089		767
4112	30	33		B	FIND2	M	4	1220	B S00		767
4113	30	34	WITCH	SW	001&X1	M	4	1224	, 0 1		767
4114	30	35		MN		M	1	1228	D		767
4115	30	36		SAR	X1	M	4	1229	Q 089		767
4116	30	37		B	GRAB1	M	4	1233	B U73		767
4117	30	38		MN	000&X1	M	4	1237	D 0 0		768
4118	30	39		SAR	X1	M	4	1241	Q 089		768

SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4119	30	40		BCE	SYNER,0&X1,}	GM	M	8	1245	B X55 0 0 }	GMARK	768
4120	30	41		B	GRAB1		M	4	1253	B U73		768
4121	30	42	COMMA	LCA	@@,000&X2		M	7	1257	L Z80 0!0		768
4122	30	43		SBR	X2		M	4	1264	H 094		768
4123	30	44		CW	001&X2		M	4	1268	) 0!1		768
4124	30	45		B	LOAD		M	4	1272	B /74		769
4125	30	46	DO	MCW	X1,X3		M	7	1276	M 089 099		769
4126	30	47	VARBL	BCE	BACK2,0&X3,#		M	8	1283	B S99 0?0 #		769
4127	30	48		SBR	X3		M	4	1291	H 099		769
4128	30	49		B	VARBL		M	4	1295	B S83		769
4129	30	50	BACK2	MCW	3&X3,SVZN#1		M	7	1299	M 0?3 Z81		769
4130	30	51		MCW	@@,3&X3		M	7	1306	M Z80 0?3		770
4131	30	52		SBR	HEX3#3,3&X3		M	7	1313	H Z84 0?3		770
4132	30	53		B	GRAB1		M	4	1320	B U73		770
4133	30	54		C	HEX3,X1		M	7	1324	C Z84 089		770
4134	30	55		BU	SYNER		M	5	1331	B X55 /		770
4135	30	56		MCW	SVZN,0&X1		M	7	1336	M Z81 0 0		770
4136	30	57		LCA	@@,000&X2		M	7	1343	L Z80 0!0		771
4137	30	58		SBR	X2		M	4	1350	H 094		771
4138	30	59		CW	001&X2		M	4	1354	) 0!1		771
4139	30	60		B	BOTM		M	4	1358	B 958		771
4140	30	61	IFEXP	MCW	X1,LOAD&3		M	7	1362	M 089 /77		771
4141	30	62	RTPAR	BCE	NOZO,000&X1,)		M	8	1369	B T93 0 0 )		771
4142	30	63		BCE	SYNER,0&X1,}	GM	M	8	1377	B X55 0 0 }	GMARK	772
4143	30	64		SBR	X1		M	4	1385	H 089		772
4144	30	65		B	RTPAR		M	4	1389	B T69		772
4145	30	66	NOZO	MN	000&X1		M	4	1393	D 0 0		772
4146	30	67		SAR	X1		M	4	1397	Q 089		772
4147	30	68		BWZ	YEAH,000&X1,2	NO ZONE	M	8	1401	V U13 0 0 2		772
4148	30	69		B	RTPAR		M	4	1409	B T69		772
4149	30	70	YEAH	BCE	RTPAR,0&X1,@		M	8	1413	B T69 0 0 @		773
4150	30	71		SW	1&X1		M	4	1421	, 0 1		773
4151	30	72		B	GRAB1		M	4	1425	B U73		773
4152	30	73		MN	000&X1		M	4	1429	D 0 0		773
4153	30	74		SAR	X1		M	4	1433	Q 089		773
4154	30	75		BCE	SYNER,0&X1,}	GM	M	8	1437	B X55 0 0 }	GMARK	773
4155	30	76		B	GRAB1		M	4	1445	B U73		773
4156	30	77		MN	000&X1		M	4	1449	D 0 0		774
4157	30	78		SAR	X1		M	4	1453	Q 089		774
4158	30	79		BCE	SYNER,0&X1,}	GM	M	8	1457	B X55 0 0 }	GMARK	774
4159	30	80		B	GRAB1		M	4	1465	B U73		774
4160	30	81		B	COMMA		M	4	1469	B S57		774
4161	30	82	GRAB1	SBR	EXIT2&3		M	4	1473	H V62		774
4162	30	83		MCW	X1,TAKE&3		M	7	1477	M 089 V47		774
4163	30	84		BWZ	LOOP,000&X1,2	NO ZONE	M	8	1484	V U96 0 0 2		775
4164	30	85		B	BADST		M	4	1492	B Y01		775
4165	30	86	LOOP	MN	000&X1		M	4	1496	D 0 0		775
4166	30	87		SAR	X1		M	4	1500	Q 089		775
4167	30	88		BWZ	LOOP,000&X1,2	NO ZONE	M	8	1504	V U96 0 0 2		775
4168	30	89		FBCEQ	SETWM,0&X1,,},)	COMMA,GM	M				MACRO	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4169				BCE	SETWM, 0&X1, ,	M	8	1512	B V40 0 0 ,	GEN	775
4170				BCE	SETWM, 0&X1, }	M	8	1520	B V40 0 0 }	GEN	776
4171				BCE	SETWM, 0&X1, )	M	8	1528	B V40 0 0 )	GEN	776
4172	30	90		B	BADST	M	4	1536	B Y01		776
4173	30	91	SETWM	SW	1&X1	M	4	1540	, 0 1		776
4174	30	92	TAKE	LCA	000,STATE	M	7	1544	L 000 Z79		776
4175	30	93		CW	001&X1	M	4	1551	) 0 1		776
4176	30	94		B	ALPHA	M	4	1555	B V63		776
4177	30	95	EXIT2	B	000	M	4	1559	B 000		777
4178	30	96	ALPHA	SBR	EXIT1&3	M	4	1563	H X54		777
4179	30	97		LCA	SIX0,PLACE	M	7	1567	L Z52 Y90		777
4180	30	98		C	SIX0,STATE	M	7	1574	C Z52 Z79		777
4181	30	99		BU	NORM	M	5	1581	B V90 /		777
4182	31	00		B	SET3	M	4	1586	B W24		777
4183	31	01	NORM	SBR	X3,STATE&1	M	7	1590	H 099 Z80		777
4184	31	02	ZERO	MN	000&X3	M	4	1597	D 0?0		778
4185	31	03		SAR	X3	M	4	1601	Q 099		778
4186	31	04		BCE	ZERO,000&X3,0	M	8	1605	B V97 0?0 0		778
4187	31	05		MCW	000&X3,PLACE	M	7	1613	M 0?0 Y90		778
4188	31	06		MCW	@1@	M	4	1620	M Z85		778
4189	31	07	SET3	SW	PLACE-1	M	4	1624	, Y89		778
4190	31	08		CW		M	1	1628	)		778
4191	31	09		SW		M	1	1629	,		779
4192	31	10		CW		M	1	1630	)		779
4193	31	11		SW		M	1	1631	,		779
4194	31	12		S	@5050@,PLACE	M	7	1632	S Z89 Y90		779
4195	31	13		S		M	1	1639	S		779
4196	31	14		BWZ	TRY2,PLACE,K	M	8	1640	V W55 Y90 K		779
4197	31	15		A	@1@,PLACE-5	M	7	1648	A Z85 Y85		779
4198	31	16	TRY2	BWZ	STRIP,PLACE-2,K	M	8	1655	V W70 Y88 K		780
4199	31	17		A	@2@,PLACE-5	M	7	1663	A Z90 Y85		780
4200	31	18	STRIP	MZ	@Z Z Z @,PLACE	M	7	1670	Y Z96 Y90		780
4201	31	19		CHAIN	5	M				MACRO	
4202				MZ		M	1	1677	Y	GEN	780
4203				MZ		M	1	1678	Y	GEN	780
4204				MZ		M	1	1679	Y	GEN	780
4205				MZ		M	1	1680	Y	GEN	780
4206				MZ		M	1	1681	Y	GEN	781
4207	31	20		MCW	X1,HEX1	M	7	1682	M 089 Y94		781
4208	31	21		MCW	&TABLE-49,X1	M	7	1689	M Z99 089		781
4209	31	22		MCW	&PLACE,X3	M	7	1696	M !02 099		781
4210	31	23	COOL	MCW	000&X3,GENER&3	M	7	1703	M 0?0 X17		781
4211	31	24		SAR	X3	M	4	1710	Q 099		781
4212	31	25	GENER	MCW	000,BOX	M	7	1714	M 000 Y91		782
4213	31	26		LCA	BOX,000&X2	M	7	1721	L Y91 0!0		782
4214	31	27		SBR	X2	M	4	1728	H 094		782
4215	31	28		CW	001&X2	M	4	1732	) 0!1		782
4216	31	29		BWZ	COOL,000&X3,2	M	8	1736	V X03 0?0 2		782
4217	31	30		MCW	HEX1,X1	M	7	1744	M Y94 089		782
4218	31	31	EXIT1	B	000	M	4	1751	B 000		783

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4219	31	32	SYNER	FTMSG	13, STATEMENT NUMBER SYNTAX, WORK1, 25	M				MACRO	
4220			SYNER	CS	332	M	4	1755	/ 332	GEN	783
4221				CS		M	1	1759	/	GEN	783
4222				SW	FAILSW	M	4	1760	, 184	GEN	783
4223				MN	WORK1, 224&25	M	7	1764	D Z62 249	GEN	783
4224				MN		M	1	1771	D	GEN	783
4225				MN		M	1	1772	D	GEN	783
4226				MCW	@ERROR 13 - STATEMENT NUMBER SYNTAX, STATEMENT @	M	4	1773	M !48	GEN	784
4227				W		M	1	1777	2	GEN	784
4228				BCV	*&5	M	5	1778	B X87 @	GEN	784
4229				B	*&3	M	4	1783	B X89	GEN	784
4230				CC	1	M	2	1787	F 1	GEN	784
4231	31	33		BW	PMOV, BADSW	M	8	1789	V Y09 Y95 1		784
4232	31	34		B	ERR	M	4	1797	B Y30		784
4233	31	35	BADST	SW	BADSW	M	4	1801	, Y95		785
4234	31	36		B	SYNER	M	4	1805	B X55		785
4235	31	37	PMOV	MCM	1&X2	M	4	1809	P 0!1		785
4236	31	38		MN		M	1	1813	D		785
4237	31	39		SAR	X2	M	4	1814	Q 094		785
4238	31	40		BCE	PMOV, 0&X2,	M	8	1818	B Y09 0!0		785
4239	31	41		CW	BADSW	M	4	1826	) Y95		785
4240	31	42	ERR	MCM	4&X2	M	4	1830	P 0!4		786
4241	31	43		MN		M	1	1834	D		786
4242	31	44		MN		M	1	1835	D		786
4243	31	45		SAR	X2	M	4	1836	Q 094		786
4244	31	46		C	0&X1	M	4	1840	C 0!0		786
4245	31	47		SAR	X1	M	4	1844	Q 089		786
4246	31	48		B	START	M	4	1848	B 864		786
4247	31	49	OUT	FENDX	C, , , , TAMROF, , TAMR1T, TAMROF ONE	M				MACRO	
4248			OUT	BSS	333, C	M	5	1852	B 333 C	GEN	787
4249				SBR	INITXT&3, TAMROF	M	7	1857	H 796 980	GEN	787
4250				SBR	TCLEAR, TAMR1T	M	7	1864	H 710 V99	GEN	787
4251				LCA	@TAMROF ONE@, 110	M	7	1871	L !58 110	GEN	787
4252				B	MONTER	M	4	1878	B 700	GEN	787
4253	31	50		DCW	@ @	M	1	1882			787
4254	31	51	GM	DC	@} @ G-M	M	1	1883		GMARK	787
4255	31	52		DC	@. @	M	1	1884			787
4256	31	53	PLACE	DCW	@ @ @	M	6	1890			787
4257	31	54	BOX	DCW	@ @	M	1	1891			788
4258	31	55	HEX1	DCW	@ @	M	3	1894			788
4259	31	56	BADSW	DC	#1	M	1	1895			788
4260	31	57	TABLE	DC	@. " ) & \$ * - % # @ ? A B C D E F G H I ! J K L M N O P Q R _ / S T U V W X Y Z 0 1 2 3 4 5 6 7 8 9 @	M	50	1945			790
4261	31	58		DC	@. @	M	1	1946			790
4262	31	59	SIX0	DCW	@000000@	M	6	1952			790
4263	31	60	*		& IS 12-0 PUNCH, - 11-0 PUNCH ., 0-7-8 R, 11-7-8						
4264	31	61	*		NO COMMA, RECORD MARK, OR GROUP MARK IN TABLE						
4265	31	62		LTORG	*	M			1953		
			WORK1M	DCW	#10	M	10	1962		AREA	790
				DCW	@WT65UPLDEGK@	M	11	1973		LIT	790
			STATEM	DCW	#06	M	6	1979		AREA	791

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@,@	M	1	1980		LIT	791
			SVZN M	DCW	#01	M	1	1981		AREA	791
			HEX3 M	DCW	#03	M	3	1984		AREA	791
				DCW	@1@	M	1	1985		LIT	791
				DCW	@5050@	M	4	1989		LIT	791
				DCW	@2@	M	1	1990		LIT	791
				DCW	@Z Z Z @	M	6	1996		LIT	792
				DCW	&TABLEM-49	M	3	1999	Y96	ADCON	792
				DCW	&PLACEM	M	3	2002	Y90	ADCON	792
				DCW	@ERROR 13 - STATEMENT NUMBER SYNTAX, STATEMENT @	M	46	2048		LIT	794
				DCW	@TAMROF ONE@	M	10	2058		LIT	794
4266	31	63		DCW	@}@	M	1	2059		GMARK	794
4267	31	64		XFR	INITL	M			B 838		795
					SYSTEM GROUP MARK						



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4268	31	65		JOB	1401 FORTRAN TAMROF PHASE ONE	FORMAT SPECS					
4269	31	66		FBEGN	TAMROF ONE,X1,R,X2,,X3,R,T,XXX					MACRO	
4270				SFX	T					GEN	
4271			XXX	EQU	0			0000		GEN	
4272			110	DCW	@TAMROF ONE@					GEN	798
4273			X1	EQU	089			0089		GEN	
4274			089	DCW	000					GEN	799
4275			091	DC	00			0091		GEN	799
4276			X2	EQU	094			0094		GEN	
4277			X3	EQU	099			0099		GEN	
4278			099	DCW	000			0099		GEN	800
4279			100	DC	0			0100		GEN	800
4280	31	67	*								
4281	31	68	NXBTM	EQU	83			0083			
4282	31	69	*								
4283	31	70		ORG	XBEGIN				0838		
4284	31	71	KLOBR	FQUIT						MACRO	
4285			KLOBR	CS	332						
4286				CS							
4287				CC	1						
4288				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270						
4289				W							
4290				CC	1						
4291				BCE	*&6,MONTOR,1						
4292				RWD	1						
4293				H	*-3						
4294	31	72	CKBIT	DCW	@;@ 11-6-8						
4295	31	73	HEX3	DCW	#3						
4296	31	74	CODE	DCW	#4						
4297	31	75	*								
4298	31	76	*								
4299	31	77	ERROR	EQU	206			0206			
4300	31	78	PRNTN	EQU	250			0250			
4301	31	79	*								
4302	31	80	GETST	SBR	GSTXT&3						
4303	31	81		FORMS						MACRO	
4304				BCV	*&5					GEN	802
4305				B	*&3					GEN	803
4306				CC	1					GEN	803
4307	31	82		CS	332						
4308	31	83		CS							
4309	31	84		SW	FAILSW						
4310	31	85		MN	CODE,PRNTN						
4311	31	86		CHAIN	2					MACRO	
4312				MN						GEN	803
4313				MN						GEN	804
4314	31	87		MCW	@STATEMENT @						
4315	31	88		MCW	@ERROR@, ERROR-1						
4316	31	89	GSTXT	B	XXX						
4317	31	90	*								

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4318	31	91		LTORG	*	T			0928		
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	T	36	0963		LIT	805
				DCW	@STATEMENT @	T	11	0974		LIT	806
				DCW	@ERROR@	T	5	0979		LIT	806
4319	31	92	*								
4320	31	93	TAMROF	CS	1&X2	T	4	0980	/ 0 1		806
4321	31	94		SBR	X1	T	4	0984	H 089		806
4322	31	95		SW	GM1	T	4	0988	, V03		806
4323	31	96	CLR	CS	0&X1	T	4	0992	/ 0 0		806
4324	31	97		SBR	X1	T	4	0996	H 089		806
4325	31	98		C	X1, &TAMR1	T	7	1000	C 089 U36		807
4326	31	99		BU	CLR	T	5	1007	B 992 /		807
4327	32	00		LCA	GM1, TAMAX&1	T	7	1012	L V03 001		807
4328	32	01		SBR	X1, TAMAX&2	T	7	1019	H 089 002		807
4329	32	02		SBR	X2, 2&X2	T	7	1026	H 094 0 2		807
4330	32	03		MCW	@., 96	T	7	1033	M U37 096		808
4331	32	04		SW	IOSW#1	T	4	1040	, U38		808
4332	32	05	CHKND	MCW	NXBTM, X3	T	7	1044	M 083 099		808
4333	32	06		SBR	X3, 1&X3	T	7	1051	H 099 0?1		808
4334	32	07		C	X3,X2	T	7	1058	C 099 094		808
4335	32	08		BE	FINI	T	5	1065	B S16 S		808
4336	32	09		CW	DBLSW#1	T	4	1070	) U39		809
4337	32	10		MN	0&X2	T	4	1074	D 0 0		809
4338	32	11		SAR	X3	T	4	1078	Q 099		809
4339	32	12		MCW	CKBIT	T	4	1082	M 872		809
4340	32	13	MVUP2	MOVUP	X2,X1,,	T				MACRO	
4341			MVUP2	MN	0&X1	T	4	1086	D 0 0	GEN	809
4342				SAR	X1	T	4	1090	Q 089	GEN	809
4343			)0J114	MCM	0&X2	T	4	1094	P 0 0	GEN	809
4344				SAR	)0L114&6	T	4	1098	Q /20	GEN	810
4345				MCM	0&X2,1&X1	T	7	1102	P 0 0 0 1	GEN	810
4346				MN		T	1	1109	D	GEN	810
4347				SBR	X1	T	4	1110	H 089	GEN	810
4348			)0L114	SBR	X2,0	T	7	1114	H 094 000	GEN	810
4349				BCE	)0J114,0&X1,	T	8	1121	B  94 0 0	GEN	810
4350				MN	0&X2	T	4	1129	D 0 0	GEN	810
4351				CW		T	1	1133	)	GEN	811
4352				SW	0&X1	T	4	1134	, 0 0	GEN	811
4353				SBR	X1, 1&X1	T	7	1138	H 089 0 1	GEN	811
4354	32	14		BW	BOTH,DBLSW	T	8	1145	V /61 U39 1		811
4355	32	15		SW	DBLSW	T	4	1153	, U39		811
4356	32	16		B	MVUP2	T	4	1157	B  86		811
4357	32	17	BOTH	MN	0&X1	T	4	1161	D 0 0		811
4358	32	18		MN		T	1	1165	D		812
4359	32	19		SAR	X3	T	4	1166	Q 099		812
4360	32	20		SBR	MKFMT&6	T	4	1170	H T97		812
4361	32	21		MCW	0&X3, CODE	T	7	1174	M 0?0 879		812
4362	32	22		SAR	X3	T	4	1181	Q 099		812
4363	32	23		B	CKFMT, CODE-3, F	T	8	1185	B T15 876 F		812
4364	32	24		MCW	CODE-3, *&8	T	7	1193	M 876 S07		812

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4365	32	25		BCE	YESIO, @56ULP@, X	T	8	1200	B S91 U44 X		813
4366	32	26		CHAIN	4	T				MACRO	
4367				BCE		T	1	1208	B	GEN	813
4368				BCE		T	1	1209	B	GEN	813
4369				BCE		T	1	1210	B	GEN	813
4370				BCE		T	1	1211	B	GEN	813
4371	32	27		B	CHKND	T	4	1212	B  44		813
4372	32	28	FINI	MN	0&X1	T	4	1216	D 0 0		813
4373	32	29		MN		T	1	1220	D		814
4374	32	30		SAR	X1	T	4	1221	Q 089		814
4375	32	31		MCW	LSTIO, X2	T	7	1225	M U57 094		814
4376	32	32		MCW	NXBTM, X3	T	7	1232	M 083 099		814
4377	32	33		MCW	@ @, 0&X3	T	7	1239	M U45 0?0		814
4378	32	34		MCW	0&X3	T	4	1246	M 0?0		814
4379	32	35		MCW	CKBIT, 0&X3	T	7	1250	M 872 0?0		814
4380	32	36		FENDX	C,GM1,,TAMROF,,TAMROF,TAMAX,TAMROF 2	T				MACRO	
4381				BSS	333,C	T	5	1257	B 333 C	GEN	815
4382				SBR	INITAP&6,TAMROF	T	7	1262	H 786 980	GEN	815
4383				SBR	BCLEAR	T	4	1269	H 833	GEN	815
4384				SBR	TCLEAR,TAMAX	T	7	1273	H 710 000	GEN	815
4385				LCA	@TAMROF 2@,110	T	7	1280	L U53 110	GEN	815
4386				B	MONTER	T	4	1287	B 700	GEN	815
4387	32	37	*								
4388	32	38	YESIO	MZ	@A@, 3&X3	T	7	1291	Y U54 0?3		816
4389	32	39		CW	IOSW	T	4	1298	) U38		816
4390	32	40		MN	0&X1	T	4	1302	D 0 0		816
4391	32	41		MN		T	1	1306	D		816
4392	32	42		SAR	LSTIO#3	T	4	1307	Q U57		816
4393	32	43		B	CHKND	T	4	1311	B  44		816
4394	32	44	*								
4395	32	45	CKFMT	MCW	@ @, 96	T	7	1315	M U45 096		816
4396	32	46		BW	UNREF, IOSW	T	8	1322	V T61 U38 1		817
4397	32	47		BCE	UNREF, 0&X3,}	T	8	1330	B T61 0?0 }	GMARK	817
4398	32	48		MCW	0&X3, FBOX#3	T	7	1338	M 0?0 U60		817
4399	32	49		MCW	LSTIO, X3	T	7	1345	M U57 099		817
4400	32	50	RUIO	BWZ	IOTYP, 0&X3, B	T	8	1352	V U02 0?0 B		817
4401	32	51		BWZ		T	1	1360	V		817
4402	32	52	UNREF	FTMSG	14,UNREFERENCED FORMAT,CODE,21,NOFAIL	T				MACRO	
4403			UNREF	CS	332	T	4	1361	/ 332	GEN	818
4404				CS		T	1	1365	/	GEN	818
4405				MN	CODE,224&21	T	7	1366	D 879 245	GEN	818
4406				MN		T	1	1373	D	GEN	818
4407				MN		T	1	1374	D	GEN	818
4408				MCW	@ERROR 14 - UNREFERENCED FORMAT, STATEMENT @	T	4	1375	M V02	GEN	818
4409				W		T	1	1379	2	GEN	818
4410				BCV	*&5	T	5	1380	B T89 @	GEN	819
4411				B	*&3	T	4	1385	B T91	GEN	819
4412				CC	1	T	2	1389	F 1	GEN	819
4413	32	53	MKFMT	MZ	@A@, XXX	T	7	1391	Y U54 000		819
4414	32	54		B	CHKND	T	4	1398	B  44		819

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4415	32	55	IOTYP	C	0&X3	T	4	1402	C 0?0		819
4416	32	56		SAR	X3	T	4	1406	Q 099		819
4417	32	57		C	0&X3, FBOX	T	7	1410	C 0?0 U60		820
4418	32	58		BE	CHKND	T	5	1417	B  44 S		820
4419	32	59		C	0&X3	T	4	1422	C 0?0		820
4420	32	60		SAR	X3	T	4	1426	Q 099		820
4421	32	61		B	RUIO	T	4	1430	B T52		820
4422	32	62	*								
4423	32	63		LTORG	*	T			1434		
				DCW	&TAMR1T	T	3	1436	V99	ADCON	820
				DCW	@.@	T	1	1437		LIT	820
			IOSW T	DCW	#01	T	1	1438		AREA	821
			DBLSWT	DCW	#01	T	1	1439		AREA	821
				DCW	@56ULP@	T	5	1444		LIT	821
				DCW	@ @	T	1	1445		LIT	821
				DCW	@TAMROF 2@	T	8	1453		LIT	821
				DCW	@A@	T	1	1454		LIT	821
			LSTIOT	DCW	#03	T	3	1457		AREA	821
			FBOX T	DCW	#03	T	3	1460		AREA	822
				DCW	@ERROR 14 - UNREFERENCED FORMAT, STATEMENT @	T	42	1502		LIT	824
4424	32	64	GM1	DCW	@}@	T	1	1503		GMARK	824
4425	32	65		ORG	*&X00	T			1600		
4426	32	66	TAMR1	EQU	*	T		1599			
4427	32	67		XFR	TAMROF	T			B 980		825

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4428	32	68		JOB	1401 FORTRAN TAMROF TWO	T					
4429	32	69	110	DCW	@TAMROF 2@	T	8	0110			828
4430	32	70	*								
4431	32	71	XL2	EQU	X2	T		0094			
4432	32	72	XL3	EQU	X3	T		0099			
4433	32	73		ORG	TAMROF	T			0980		
4434	32	74	*								
4435	32	75	PHSE2	BCE	END2, 96, .	T	8	0980	B  21 096 .		829
4436	32	76		MCW	X2, IOBGN&6	T	7	0988	M 094 J47		829
4437	32	77	RETRN	SBR	X2, 2&X1	T	7	0995	H 094 0 2		829
4438	32	78		LCA	@ @	T	4	1002	L M08		829
4439	32	79		MCW	0&X1, CODE	T	7	1006	M 0 0 879		829
4440	32	80		BCE	MOR, CODE-3, F	T	8	1013	B  62 876 F		830
4441	32	81	END2	FENDX	C,GM2, ,XBEGIN,PHSE1X,XBEGIN,SYS2,LISTR1	T				MACRO	
4442			END2	BSS	333,C	T	5	1021	B 333 C	GEN	830
4443				SBR	INITAP&6,XBEGIN	T	7	1026	H 786 838	GEN	830
4444				SBR	BCLEAR	T	4	1033	H 833	GEN	830
4445				SBR	INITXT&3,PHSE1X	T	7	1037	H 796 845	GEN	830
4446				SBR	TCLEAR,SYS2	T	7	1044	H 710 N99	GEN	830
4447				LCA	@LISTR1@,110	T	7	1051	L M14 110	GEN	831
4448				B	MONTER	T	4	1058	B 700	GEN	831
4449	32	82	MOR	C	0&X1	T	4	1062	C 0 0		831
4450	32	83		SAR	X1	T	4	1066	Q 089		831
4451	32	84		SBR	COMPL&6	T	4	1070	H /21		831
4452	32	85		MCW	4&X1, FMTNO#3	T	7	1074	M 0 4 M17		831
4453	32	86		SW	SW1#1	T	4	1081	, M18		831
4454	32	87		CW	PARSW#1	T	4	1085	) M19		832
4455	32	88		ZA	&1, NCTR	T	7	1089	? M20 M26		832
4456	32	89		BCE	ERSIG, 0&X1, ) Q. FIRST CHAR RIGHT PAREN	T	8	1096	B S58 0 0 )		832
4457	32	90		MCW	X2,SCNBX#3	T	7	1104	M 094 M23		832
4458	32	91		B	BGIN	T	4	1111	B V10		832
4459	32	92	*								
4460	32	93	COMPL	SBR	X1, XXX	T	7	1115	H 089 000		832
4461	32	94	SETN	ZA	&1, NCTR#3	T	7	1122	? M20 M26		833
4462	32	95	COMRT	BCE	RTPAR,0&X1, )	T	8	1129	B V41 0 0 )		833
4463	32	96		SBR	COMPL&6	T	4	1137	H /21		833
4464	32	97		BCE	LFPAR, 0&X1,%	T	8	1141	B U98 0 0 %		833
4465	32	98		FBCEQ	ARIT, 0&X1,I,F,E	T				MACRO	
4466				BCE	ARIT, 0&X1, I	T	8	1149	B W64 0 0 I	GEN	833
4467				BCE	ARIT, 0&X1, F	T	8	1157	B W64 0 0 F	GEN	834
4468				BCE	ARIT, 0&X1, E	T	8	1165	B W64 0 0 E	GEN	834
4469	32	99		BCE	ARIT,0&X1,A	T	8	1173	B W64 0 0 A		834
4470	33	00		FBCEQ	PGET, 0&X1, &,-	T				MACRO	
4471				BCE	PGET, 0&X1, &	T	8	1181	B U24 0 0 &	GEN	834
4472				BCE	PGET, 0&X1, -	T	8	1189	B U24 0 0 -	GEN	835
4473	33	01		BCE	SLASH,0&X1,@	T	8	1197	B W36 0 0 @		835
4474	33	02		C	0&X1, @Z@	T	7	1205	C 0 0 M27		835
4475	33	03		BL	MV2N	T	5	1212	B Z04 T		835
4476	33	04		BL	PUTN	T	5	1217	B Z98 T		835
4477	33	05		BW	ERSIG, SW1	T	8	1222	V S58 M18 1		836

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4478	33	06		BCE	HNOT, 0&X1, H	T	8	1230	B T06 0 0 H		836
4479	33	07		SBR	X1	T	4	1238	H 089		836
4480	33	08		BCE	XNOT, 1&X1, X	T	8	1242	B S81 0 1 X		836
4481	33	09		BCE	PNOT, 1&X1, P	T	8	1250	B U79 0 1 P		836
4482	33	10	*								
4483	33	11	ERSIG	B	GETST	T	4	1258	B 880		837
4484	33	12		MCW	@15 - FORMAT SYNTAX@,ERROR&17	T	7	1262	M M45 223		837
4485	33	13	ERRWT	W		T	1	1269	2		837
4486	33	14		MZ	@A@,CODE	T	7	1270	Y M46 879		837
4487	33	15		B	FINIS	T	4	1277	B !42		837
4488	33	16	*								
4489	33	17	XNOT	SW	8&X2	T	4	1281	, 0!8		837
4490	33	18		SBR	X2	T	4	1285	H 094		837
4491	33	19		LCA	KX	T	4	1289	L L83		838
4492	33	20		MN	NCTR, 0&X2	T	7	1293	D M26 0!0		838
4493	33	21		MN		T	1	1300	D		838
4494	33	22		MN		T	1	1301	D		838
4495	33	23		B	MKND	T	4	1302	B Y35		838
4496	33	24	*								
4497	33	25	HNOT	SW	5&X2	T	4	1306	, 0!5		838
4498	33	26		CW		T	1	1310	)		838
4499	33	27		SBR	X2	T	4	1311	H 094		839
4500	33	28		LCA	KH, 1&X2	T	7	1315	L L76 0!1		839
4501	33	29		S	&1, NCTR	T	7	1322	S M20 M26		839
4502	33	30		BM	ERSIG, NCTR	T	8	1329	V S58 M26 K		839
4503	33	31		MN	0&X1	T	4	1337	D 0 0		839
4504	33	32		SAR	X1	T	4	1341	Q 089		839
4505	33	33	FLIP	MN	0&X1, 2&X2	T	7	1345	D 0 0 0!2		840
4506	33	34		SBR	X2	T	4	1352	H 094		840
4507	33	35		MZ	0&X1, 1&X2	T	7	1356	Y 0 0 0!1		840
4508	33	36		SAR	X1	T	4	1363	Q 089		840
4509	33	37		SBR	COMPL&6	T	4	1367	H /21		840
4510	33	38		CW	2&X2	T	4	1371	) 0!2		840
4511	33	39		S	&1, NCTR	T	7	1375	S M20 M26		840
4512	33	40		BCE	HLERR,0&X1,}	T	8	1382	B U09 0 0 }	GMARK	841
4513	33	41		BWZ	FLIP, NCTR, B	T	8	1390	V T45 M26 B		841
4514	33	42	BX2B2	SBR	X2,1&X2	T	7	1398	H 094 0!1		841
4515	33	43		B	MKND	T	4	1405	B Y35		841
4516	33	44	HLERR	B	GETST	T	4	1409	B 880		841
4517	33	45		MCW	@45 - HOLLERITH COUNT@,ERROR &25	T	7	1413	M M66 231		841
4518	33	46		W	BX2B2	T	4	1420	2 T98		842
4519	33	47	*								
4520	33	48	PGET	MZ	0&X1, NCTR	T	7	1424	Y 0 0 M26		842
4521	33	49		SAR	X1	T	4	1431	Q 089		842
4522	33	50		B	MV2N	T	4	1435	B Z04		842
4523	33	51		C	X3,@020@	T	7	1439	C 099 M69		842
4524	33	52		BL	ERSIG	T	5	1446	B S58 T		842
4525	33	53		MN	X3, NCTR	T	7	1451	D 099 M26		842
4526	33	54		MN		T	1	1458	D		843
4527	33	55		C	0&X1, @P@	T	7	1459	C 0 0 M70		843

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4528	33	56		SAR	COMPL&6	T	4	1466	Q /21		843
4529	33	57		SBR	X1	T	4	1470	H 089		843
4530	33	58		BU	ERSIG	T	5	1474	B S58 /		843
4531	33	59	*								
4532	33	60	PNOT	SBR	X2, 7&X2	T	7	1479	H 094 0!7		843
4533	33	61		LCA	NCTR	T	4	1486	L M26		843
4534	33	62		LCA	KP	T	4	1490	L M07		844
4535	33	63		B	MKND	T	4	1494	B Y35		844
4536	33	64	*								
4537	33	65	LFPAR	BW	PARER, PARSW	T	8	1498	V V69 M19 1		844
4538	33	66		SW	PARSW	T	4	1506	, M19		844
4539	33	67	BGIN	SW	8&X2	T	4	1510	, 0!8		844
4540	33	68		SBR	X2	T	4	1514	H 094		844
4541	33	69		CW	URFSW	T	4	1518	) N50		844
4542	33	70		LCA	NCTR, 0&X2	T	7	1522	L M26 0!0		845
4543	33	71		LCA	KLEFT	T	4	1529	L L87		845
4544	33	72	SET1	SW	SW1	T	4	1533	, M18		845
4545	33	73		B	COMPL	T	4	1537	B /15		845
4546	33	74	*								
4547	33	75	RTPAR	MN	0&X1	T	4	1541	D 0!0		845
4548	33	76		SAR	COMPL&6	T	4	1545	Q /21		845
4549	33	77		SBR	*&7	T	4	1549	H V59		845
4550	33	78		BCE	EOSTM, XXX, } GMWM	T	8	1553	B W12 000 } GMARK		846
4551	33	79		BW	PAROK, PARSW	T	8	1561	V V84 M19 1		846
4552	33	80	PARER	B	GETST	T	4	1569	B 880		846
4553	33	81		MCW	@16 - PARENTHESIS ERROR@, ERROR&22	T	7	1573	M M92 228		846
4554	33	82		B	ERRWT	T	4	1580	B S69		846
4555	33	83	*								
4556	33	84	PAROK	CW	PARSW	T	4	1584	) M19		846
4557	33	85		SW	5&X2	T	4	1588	, 0!5		846
4558	33	86		SBR	X2	T	4	1592	H 094		847
4559	33	87		LCA	KRITE	T	4	1596	L L91		847
4560	33	88		MN	0&X1	T	4	1600	D 0!0		847
4561	33	89		SAR	X1	T	4	1604	Q 089		847
4562	33	90		B	MKND	T	4	1608	B Y35		847
4563	33	91	*								
4564	33	92	EOSTM	CW	5&X2	T	4	1612	) 0!5		847
4565	33	93		SBR	X2	T	4	1616	H 094		847
4566	33	94		LCA	KEOJ	T	4	1620	L M03		848
4567	33	95		BW	PARER, PARSW	T	8	1624	V V69 M19 1		848
4568	33	96		B	FINIS	T	4	1632	B !42		848
4569	33	97	*								
4570	33	98	SLASH	BW	*&5, SW1	T	8	1636	V W48 M18 1		848
4571	33	99		B	ERSIG	T	4	1644	B S58		848
4572	34	00		SW	5&X2	T	4	1648	, 0!5		848
4573	34	01		SBR	X2	T	4	1652	H 094		848
4574	34	02		LCA	KLINE	T	4	1656	L L95		849
4575	34	03		B	COMPL	T	4	1660	B /15		849
4576	34	04	*								
4577	34	05	ARIT	SW	5&X2	T	4	1664	, 0!5		849

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4578	34	06		LCA	KARIT	T	4	1668	L L99		849
4579	34	07	MVRPT	LCA	NCTR, 8&X2	T	7	1672	L M26 0!8		849
4580	34	08		MCW	0&X1	T	4	1679	M 0!0		849
4581	34	09		SAR	X1	T	4	1683	Q 089		849
4582	34	10		B	MV2N	T	4	1687	B Z04		850
4583	34	11		ZA	XL3, WCTR#3	T	7	1691	? 099 M95		850
4584	34	12		SW	IEXIT&4	T	4	1698	, Y12		850
4585	34	13		BCE	CLRI, 5&X2, F	T	8	1702	B X33 0!5 F		850
4586	33	14		FBCEQ	NOSUB, 5&X2, I, A	T				MACRO	
4587				BCE	NOSUB, 5&X2, I	T	8	1710	B X72 0!5 I	GEN	850
4588				BCE	NOSUB, 5&X2, A	T	8	1718	B X72 0!5 A	GEN	850
4589	33	15		S	&4, WCTR	T	7	1726	S M96 M95		851
4590	33	16	CLRI	CW	IEXIT&4	T	4	1733	) Y12		851
4591	34	17		C	0&X1, @. @	T	7	1737	C 0!0 M97		851
4592	34	18		SAR	X1	T	4	1744	Q 089		851
4593	34	19		BU	ERSIG	T	5	1748	B S58 /		851
4594	34	20		B	MV2N	T	4	1753	B Z04		851
4595	34	21		S	XL3, WCTR	T	7	1757	S 099 M95		851
4596	34	22		BM	EINPT, WCTR	T	8	1764	V Y70 M95 K		852
4597	34	23	NOSUB	BCE	*&8, 5&X2, F	T	8	1772	B X87 0!5 F		852
4598	34	24		A	&4, X3	T	7	1780	A M96 099		852
4599	34	25	HERE	SBR	X2, 11&X2	T	7	1787	H 094 0J1		852
4600	34	26		MZ	*-4, WCTR	T	7	1794	Y X96 M95		852
4601	34	27		LCA	WCTR, 0&X2	T	7	1801	L M95 0!0		853
4602	34	28	IEXIT	BCE	CKZRO, *-7, C	T	8	1808	B Y27 Y08 C		853
4603	34	29		SBR	XL2, 3&X2	T	7	1816	H 094 0!3		853
4604	34	30		LCA	XL3	T	4	1823	L 099		853
4605	34	31	CKZRO	BM	ERSIG, WCTR	T	8	1827	V S58 M95 K		853
4606	34	32	MKND	SW	SW1	T	4	1835	, M18		853
4607	34	33	LK4CM	C	0&X1, @, @	T	7	1839	C 0!0 M98		854
4608	34	34		SAR	COMPL&6	T	4	1846	Q /21		854
4609	34	35		SBR	X1	T	4	1850	H 089		854
4610	34	36		BE	LK4CM	T	5	1854	B Y39 S		854
4611	34	37		SBR	X1, 1&X1	T	7	1859	H 089 0!1		854
4612	34	38		B	SETN	T	4	1866	B /22		854
4613	34	39	EINPT	A	XL3, WCTR	T	7	1870	A 099 M95		854
4614	34	40		A	@4@, WCTR	T	7	1877	A M99 M95		855
4615	34	41		MN	WCTR, XL3	T	7	1884	D M95 099		855
4616	34	42		MN		T	1	1891	D		855
4617	34	43		MN		T	1	1892	D		855
4618	34	44		MCW	@000@, WCTR	T	7	1893	M N02 M95		855
4619	34	45		B	HERE	T	4	1900	B X87		855
4620	34	46	*								
4621	34	47	MV2N	SBR	MV2XT&3	T	4	1904	H Z97		855
4622	34	48		S	XL3&1	T	4	1908	S 100		856
4623	34	49		C	0&X1, @0@	T	7	1912	C 0!0 N03		856
4624	34	50		BH	ERSIG	T	5	1919	B S58 U		856
4625	34	51	MVDIG	MN	0&X1, XL3	T	7	1924	D 0!0 099		856
4626	34	52		SAR	X1	T	4	1931	Q 089		856
4627	34	53		C	0&X1, @0@	T	7	1935	C 0!0 N03		856



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4628	34	54		BH	CHKN	T	5	1942	B Z77 U		856
4629	34	55		C	XL3,@133@	T	7	1947	C 099 N06		857
4630	34	56		BL	ERSIG	T	5	1954	B S58 T		857
4631	34	57		MN	XL3-1, XL3-2	T	7	1959	D 098 097		857
4632	34	58		MN	XL3, XL3-1	T	7	1966	D 099 098		857
4633	34	59		B	MVDIG	T	4	1973	B Z24		857
4634	34	60	*								
4635	34	61	CHKN	C	@134@, XL3	T	7	1977	C N09 099		857
4636	34	62		BH	ERSIG	T	5	1984	B S58 U		858
4637	34	63		BE	ERSIG	T	5	1989	B S58 S		858
4638	34	64	MV2XT	B	XXX	T	4	1994	B 000		858
4639	34	65	*								
4640			*TESTE	BCE	EINPT, 5&X2, E						
4641			*	B	ERSIG						
4642	34	66	*								
4643	34	67	PUTN	ZA	XL3, NCTR	T	7	1998	? 099 M26		858
4644	34	68		SW	BCEQ&7	T	4	2005	, !30		858
4645	34	69		MCW	0&X1, BCEQ&7	T	7	2009	M 0!0 !30		858
4646	34	70		CW	BCEQ&7, SW1	T	7	2016	) !30 M18		858
4647	34	71	BCEQ	BCE	COMRT, @PAXHIFE%@, X	T	8	2023	B /29 N17 X		859
4648	34	72		CHAIN	7	T				MACRO	
4649				BCE		T	1	2031	B	GEN	859
4650				BCE		T	1	2032	B	GEN	859
4651				BCE		T	1	2033	B	GEN	859
4652				BCE		T	1	2034	B	GEN	859
4653				BCE		T	1	2035	B	GEN	859
4654				BCE		T	1	2036	B	GEN	859
4655				BCE		T	1	2037	B	GEN	860
4656	34	73		B	ERSIG	T	4	2038	B S58		860
4657	34	74	*								
4658	34	75	FINIS	MCW	NXBTM, X3	T	7	2042	M 083 099		860
4659	34	76		BWZ	SETX2, CODE, B	T	8	2049	V K60 879 B		860
4660	34	77		C	0&X3,CKBIT	T	7	2057	C 0?0 872		860
4661	34	78		BU	KLOBR	T	5	2064	B 838 /		860
4662	34	79	MVDWN	LCA	0&X2,0&X3	T	7	2069	L 0!0 0?0		860
4663	34	80		SAR	X2	T	4	2076	Q 094		861
4664	34	81		C	0&X3	T	4	2080	C 0?0		861
4665	34	82		SAR	X3	T	4	2084	Q 099		861
4666	34	83		CW	1&X2	T	4	2088	) 0!1		861
4667	34	84		C	X2,SCNBX	T	7	2092	C 094 M23		861
4668	34	85		BU	MVDWN	T	5	2099	B !69 /		861
4669	34	86		SBR	HEX3, 0&X3	T	7	2104	H 875 0?0		861
4670	34	87		CW	0&X2	T	4	2111	) 0!0		862
4671	34	88		CW		T	1	2115	)		862
4672	34	89		MCW		T	1	2116	M		862
4673	34	90		SAR	X2	T	4	2117	Q 094		862
4674	34	91		CW	1&X2	T	4	2121	) 0!1		862
4675	34	92		BW	MV2GM,URFSW	T	8	2125	V K48 N50 1		862
4676	34	93		BCE	MV2GM,IOBGN&5,	T	8	2133	B K48 J46		862
4677	34	94	IOBGN	SBR	X2, XXX	T	7	2141	H 094 000		863

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4678	34	95		CW	REFSW#1	T	4	2148	) N18		863
4679	34	96		SBR	MVADR&6, 1&X3	T	7	2152	H L46 0?1		863
4680	34	97	REPLS	MN	0&X2	T	4	2159	D 0!0		863
4681	34	98		CHAIN	2	T				MACRO	
4682				MN		T	1	2163	D	GEN	863
4683				MN		T	1	2164	D	GEN	863
4684	34	99		SAR	X3	T	4	2165	Q 099		863
4685	35	00		MN	0&X3, *&15	T	7	2169	D 0?0 J90		864
4686	35	01		MZ	0&X3, *&8	T	7	2176	Y 0?0 J90		864
4687	35	02		BCE	IOWK, @56ULP@, X	T	8	2183	B K97 N23 X		864
4688	35	03		CHAIN	4	T				MACRO	
4689				BCE		T	1	2191	B	GEN	864
4690				BCE		T	1	2192	B	GEN	864
4691				BCE		T	1	2193	B	GEN	864
4692				BCE		T	1	2194	B	GEN	864
4693	35	04		BW	NDRPL, REFSW	T	8	2195	V K19 N18 1		865
4694	35	05		B	GETST	T	4	2203	B 880		865
4695	35	06		MCW	@17 - DOUBLY DEFINED FORMAT@,ERROR&26	T	7	2207	M N49 232		865
4696	35	07		W		T	1	2214	2		865
4697	35	08		B	FBAD	T	4	2215	B K75		865
4698	35	09	NDRPL	MCW	HEX3, X3	T	7	2219	M 875 099		865
4699	35	10		BWZ	FBAD, CODE, B	T	8	2226	V K75 879 B		865
4700	35	11	FOKAY	MCW	X3, NXBTM	T	7	2234	M 099 083		866
4701	35	12		MCW	CKBIT, 0&X3	T	7	2241	M 872 0?0		866
4702	35	13	MV2GM	C	0&X1	T	4	2248	C 0!0		866
4703	35	14		SAR	X1	T	4	2252	Q 089		866
4704	35	15		B	RETRN	T	4	2256	B 995		866
4705	35	16	SETX2	MCW	X2, X3	T	7	2260	M 094 099		866
4706	35	17		SW	URFSW#1	T	4	2267	, N50		866
4707	35	18		B	MVDWN	T	4	2271	B !69		867
4708	35	19	FBAD	MCW	NXBTM, X3	T	7	2275	M 083 099		867
4709	35	20		LCA	@. @, 0&X3	T	7	2282	L M97 0?0		867
4710	35	21		SBR	X3	T	4	2289	H 099		867
4711	35	22		B	FOKAY	T	4	2293	B K34		867
4712	35	23	IOWK	C	0&X3	T	4	2297	C 0?0		867
4713	35	24		SAR	X2	T	4	2301	Q 094		867
4714	35	25		BWZ	*&5, 2&X3, B	T	8	2305	V L17 0?2 B		868
4715	35	26		B	NOSWT	T	4	2313	B L61		868
4716	35	27		C	0&X2, FMTNO	T	7	2317	C 0!0 M17		868
4717	35	28		BU	NOSWT	T	5	2324	B L61 /		868
4718	35	29		SW	REFSW	T	4	2329	, N18		868
4719	35	30		MA	MACFLS, MVADR&6	T	7	2333	# 163 L46		868
4720	35	31	MVADR	SBR	0&X2, XXX	T	7	2340	H 0!0 000		869
4721	35	32		MZ	@ @, 2&X3	T	7	2347	Y M08 0?2		869
4722	35	33		MA	PLUSDF, MVADR&6	T	7	2354	# 160 L46		869
4723	35	34	NOSWT	C	0&X2	T	4	2361	C 0!0		869
4724	35	35		SAR	X2	T	4	2365	Q 094		869
4725	35	36		B	REPLS	T	4	2369	B J59		869
4726	35	37	*								
4727	35	38	KH	DCW	@BL28@ HOLLR CHANGE IF OBJ FORMAT REASSEMBLED	T	4	2376			869

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4728	35	39	KX	DCW	@H0990&0@	T	7	2383			870
4729	35	40	KLEFT	DCW	@BJ52@ OPENR CHANGE IF OBJ FORMAT REASSEMBLED	T	4	2387			870
4730	35	41	KRITE	DCW	@BJ85@ CLSPR CHANGE IF OBJ FORMAT REASSEMBLED	T	4	2391			870
4731	35	42	KLINE	DCW	@BK08@ NDLIN CHANGE IF OBJ FORMAT REASSEMBLED	T	4	2395			870
4732	35	43	KARIT	DCW	@BL85@ GETW CHANGE IF OBJ FORMAT REASSEMBLED	T	4	2399			870
4733	35	44	KEOJ	DCW	@BK23@ EOJ1 CHANGE IF OBJ FORMAT REASSEMBLED	T	4	2403			870
4734	35	45	KP	DCW	@BL10@ SCALE CHANGE IF OBJ FORMAT REASSEMBLED	T	4	2407			870
4735	35	46		LTORG *		T			2408		
				DCW @ @		T	1	2408		LIT	871
				DCW @LISTR1@		T	6	2414		LIT	871
			FMTNOT	DCW #03		T	3	2417		AREA	871
			SW1 T	DCW #01		T	1	2418		AREA	871
			PARSWT	DCW #01		T	1	2419		AREA	871
				DCW &1		T	1	2420		LIT	871
			SCNBXT	DCW #03		T	3	2423		AREA	871
			NCTR T	DCW #03		T	3	2426		AREA	872
				DCW @Z@		T	1	2427		LIT	872
				DCW @15 - FORMAT SYNTAX@		T	18	2445		LIT	872
				DCW @A@		T	1	2446		LIT	872
				DCW @45 - HOLLERITH COUNT@		T	20	2466		LIT	873
				DCW @020@		T	3	2469		LIT	873
				DCW @P@		T	1	2470		LIT	873
				DCW @16 - PARENTHESIS ERROR@		T	22	2492		LIT	874
			WCTR T	DCW #03		T	3	2495		AREA	874
				DCW &4		T	1	2496		LIT	874
				DCW @. @		T	1	2497		LIT	874
				DCW @, @		T	1	2498		LIT	874
				DCW @4@		T	1	2499		LIT	874
				DCW @000@		T	3	2502		LIT	874
				DCW @0@		T	1	2503		LIT	875
				DCW @133@		T	3	2506		LIT	875
				DCW @134@		T	3	2509		LIT	875
				DCW @PAXHIFE%@		T	8	2517		LIT	875
			REFSWT	DCW #01		T	1	2518		AREA	875
				DCW @56ULP@		T	5	2523		LIT	875
				DCW @17 - DOUBLY DEFINED FORMAT@		T	26	2549		LIT	876
			URFSWT	DCW #01		T	1	2550		AREA	876
4736	35	47		ORG *&X00		T			2600		
4737	35	48		ORG *-1		T			2599		
4738	35	49	SYS2	DCW @} @	SYSTEM GROUP MARK	T	1	2599		GMARK	877
4739	35	50	TAMAX	DCW #1		T	1	2600			877
4740	35	51		XFR PHSE2		T			B 980		878

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4741	35	52		JOB	1401 FORTRAN LISTS PHASE ONE	T					
4742	35	53		FBEGN	LISTR1,X1,,X2,R,X3,R,X	T				MACRO	
4743				SFX	X	X				GEN	
4744			110	DCW	@LISTR1@	X	6	0110		GEN	881
4745			X1	EQU	089	X		0089		GEN	
4746			X2	EQU	094	X		0094		GEN	
4747			094	DCW	000	X	3	0094		GEN	882
4748			096	DC	00	X	2	0096		GEN	882
4749			X3	EQU	099	X		0099		GEN	
4750			099	DCW	000	X	3	0099		GEN	882
4751			100	DC	0	X	1	0100		GEN	882
4752	35	54		NXBTM	EQU 083	X		0083			
4753	35	55		* CHECKS FOR DUPLICATE LISTS							
4754	35	56		ORG	XBEGIN	X			0838		
4755	35	57	CODE	DCW	#4	X	4	0841			883
4756	35	58	ABOTM	DCW	#3	X	3	0844			883
4757	35	59	PHSE1	MCW	X1,ABOTM	X	7	0845	M 089 844		883
4758	35	60		MCW	NXBTM,X2	X	7	0852	M 083 094		883
4759	35	61		LCA	@. @, 0&X2	X	7	0859	L S13 0!0		883
4760	35	62		CW	0&X2	X	4	0866	) 0!0		883
4761	35	63		SBR	NXBTM	X	4	0870	H 083		883
4762	35	64		SBR	PERIOD,0&X2	X	7	0874	H 154 0!0		884
4763	35	65		MA	MACFLS,PERIOD	X	7	0881	# 163 154		884
4764	35	66	START	BCE	DUN,000&X1, BLANK	X	8	0888	B /68 0!0		884
4765	35	67		MCW	000&X1,CODE	X	7	0896	M 0!0 841		884
4766	35	68		MCW	X1,ALTER&6	X	7	0903	M 089 /63		884
4767	35	69		MCW	CODE-3,*&8	X	7	0910	M 838 924		885
4768	35	70		BCE	LIST,@5613LUP@,0	X	8	0917	B 935 S20 0		885
4769	35	71		CHAIN	6	X				MACRO	
4770				BCE		X	1	0925	B	GEN	885
4771				BCE		X	1	0926	B	GEN	885
4772				BCE		X	1	0927	B	GEN	885
4773				BCE		X	1	0928	B	GEN	885
4774				BCE		X	1	0929	B	GEN	885
4775				BCE		X	1	0930	B	GEN	886
4776	35	72		B	DUN	X	4	0931	B /68		886
4777	35	73	LIST	C	000&X1	X	4	0935	C 0!0		886
4778	35	74		SAR	X1	X	4	0939	Q 089		886
4779	35	75		B	COMMA	X	4	0943	B  88		886
4780	35	76		CW	XDOINI	X	4	0947	) 114		886
4781	35	77		BCE	NEXT1,PARAM&10,L	X	8	0951	B 963 696 L		886
4782	35	78		CW	XOBLST	X	4	0959	) 115		887
4783	35	79	NEXT1	SW	000&X1	X	4	0963	, 0!0		887
4784	35	80		SAR	X1	X	4	0967	Q 089		887
4785	35	81		MCW	ABOTM,X3	X	7	0971	M 844 099		887
4786	35	82	RUDUP	C	0&X3	X	4	0978	C 0?0		887
4787	35	83		C		X	1	0982	C		887
4788	35	84		SAR	X3	X	4	0983	Q 099		887
4789	35	85		BCE	RUDUP,1&X3,}	X	8	0987	B 978 0?1 }	GMARK	888
4790	35	86		C	X1,X3	X	7	0995	C 089 099		888

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4791	35	87		BU	COMP	X	5	1002	B  19 /		888
4792	35	88	PASS	C	000&X1	X	4	1007	C 0 0		888
4793	35	89		SAR	X1	X	4	1011	Q 089		888
4794	35	90		B	START	X	4	1015	B 888		888
4795	35	91	COMP	C	000&X1,000&X3	X	7	1019	C 0 0 0?0		888
4796	35	92		BU	RESET	X	5	1026	B  68 /		889
4797	35	93		C	000&X3,000&X1	X	7	1031	C 0?0 0 0		889
4798	35	94		BU	RESET	X	5	1038	B  68 /		889
4799	35	95		BWZ	WRONG,0&X1,1	X	8	1043	V /16 0 0 1		889
4800	35	96		BWZ		X	1	1051	V		889
4801	35	97		BWZ		X	1	1052	V		889
4802	35	98		LCA	X3,000&X1	X	7	1053	L 099 0 0		889
4803	35	99		SBR	X1	X	4	1060	H 089		890
4804	36	00		B	PASS	X	4	1064	B  07		890
4805	36	01	RESET	C	000&X3	X	4	1068	C 0?0		890
4806	36	02		SAR	X3	X	4	1072	Q 099		890
4807	36	03		BCE	RUDUP,1&X3,}	X	8	1076	B 978 0?1 }	GMARK	890
4808	36	04		B	RESET	X	4	1084	B  68		890
4809	36	05	COMMA	SBR	EXCMA&3	X	4	1088	H /03		890
4810	36	06	CKNG	BW	PASS,0&X1	X	8	1092	V  07 0 0 1		891
4811	36	07	EXCMA	BCE	000,000&X1,,	X	8	1100	B 000 0 0 ,		891
4812	36	08		SBR	X1	X	4	1108	H 089		891
4813	36	09		B	CKNG	X	4	1112	B  92		891
4814	36	10	WRONG	FTMSG	18,LIST SYNTAX,CODE,13	X				MACRO	
4815			WRONG	CS	332	X	4	1116	/ 332	GEN	891
4816				CS		X	1	1120	/	GEN	891
4817				SW	FAILSW	X	4	1121	, 184	GEN	891
4818				MN	CODE,224&13	X	7	1125	D 841 237	GEN	892
4819				MN		X	1	1132	D	GEN	892
4820				MN		X	1	1133	D	GEN	892
4821				MCW	@ERROR 18 - LIST SYNTAX, STATEMENT @	X	4	1134	M S54	GEN	892
4822				W		X	1	1138	2	GEN	892
4823				BCV	*&5	X	5	1139	B /48 @	GEN	892
4824				B	*&3	X	4	1144	B /50	GEN	892
4825				CC	1	X	2	1148	F 1	GEN	893
4826	36	11		MCW	@/@,CODE-3	X	7	1150	M S55 838		893
4827	36	12	ALTER	MCW	CODE,000	X	7	1157	M 841 000		893
4828	36	13		B	PASS	X	4	1164	B  07		893
4829	36	14	DUN	SW	000&X1	X	4	1168	, 0 0		893
4830	36	15		MCW	ABOTM,X1	X	7	1172	M 844 089		893
4831	36	16		FENDX	C,,PHSE1,,PHSE1,SYS1,LISTR TWO	X				MACRO	
4832				BSS	333,C	X	5	1179	B 333 C	GEN	893
4833				SBR	INITAP&6,PHSE1	X	7	1184	H 786 845	GEN	894
4834				SBR	BCLEAR	X	4	1191	H 833	GEN	894
4835				SBR	TCLEAR,SYS1	X	7	1195	H 710 S65	GEN	894
4836				LCA	@LISTR TWO@,110	X	7	1202	L S64 110	GEN	894
4837				B	MONTER	X	4	1209	B 700	GEN	894
4838	36	17		LTORG	*	X			1213		
				DCW	@.@	X	1	1213		LIT	894
				DCW	@5613LUP@	X	7	1220		LIT	894

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@ERROR 18 - LIST SYNTAX, STATEMENT @	X	34	1254		LIT	895
				DCW	@/@	X	1	1255		LIT	895
				DCW	@LISTR TWO@	X	9	1264		LIT	896
4839	36	18	SYS1	DCW	@}@	X	1	1265		GMARK	896
4840	36	19		XFR	PHSE1	X			B 845		897
					SYSTEM GROUP MARK						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4841	36	20		JOB	1401 FORTRAN LISTS PHASE TWO	X					
4842	36	21	*	REORDERS,	SQUEEZES, ERROR CHECKS, AND STORES LIST						
4843	36	22	110	DCW	@LISTR TWO@	X	9	0110			900
4844	36	23		ORG	PHSE1	X			0845		
4845	36	24	PHSE2	MCW	NXB TM,X2	X	7	0845	M 083 094		901
4846	36	25	GO	BWZ	OUT,000&X1,1	X	8	0852	V Z88 0 0 1		901
4847	36	26		MCW	X2,HEX2#3	X	7	0860	M 094 !53		901
4848	36	27		MCW	000&X1, CODE	X	7	0867	M 0 0 841		901
4849	36	28		MCW	X1,EMASQ&6	X	7	0874	M 089 Z69		901
4850	36	29		C	000&X1	X	4	0881	C 0 0		902
4851	36	30		SAR	X1	X	4	0885	Q 089		902
4852	36	31		SBR	X3	X	4	0889	H 099		902
4853	36	32	SLIP	C	0&X3	X	4	0893	C 0?0		902
4854	36	33		SAR	X3	X	4	0897	Q 099		902
4855	36	34		BCE	*&5,1&X3,}	X	8	0901	B 913 0?1 }	GMARK	902
4856	36	35		B	SLIP	X	4	0909	B 893		902
4857	36	36		SBR	NXGUY&6,0&X3	X	7	0913	H Z83 0?0		903
4858	36	37		C	000&X1	X	4	0920	C 0 0		903
4859	36	38		C		X	1	0924	C		903
4860	36	39		SAR	HEX1#3	X	4	0925	Q !56		903
4861	36	40		BCE	HEX1X,0&X1,,	X	8	0929	B 947 0 0 ,		903
4862	36	41		CHAIN	6	X				MACRO	
4863				BCE		X	1	0937	B	GEN	903
4864				BCE		X	1	0938	B	GEN	903
4865				BCE		X	1	0939	B	GEN	904
4866				BCE		X	1	0940	B	GEN	904
4867				BCE		X	1	0941	B	GEN	904
4868				BCE		X	1	0942	B	GEN	904
4869	36	42		B	CKTYP	X	4	0943	B Y22		904
4870	36	43	HEX1X	MCW	HEX1,X1	X	7	0947	M !56 089		904
4871	36	44		BCE	NEW,001&X1,}	X	8	0954	B 989 0 1 }	GMARK	904
4872	36	45		MCW	003&X1,X3	X	7	0962	M 0 3 099		905
4873	36	46		BWZ	ERROR,001&X3,1	X	8	0969	V Z22 0?1 1		905
4874	36	47		LCA	001&X3,004&X1	X	7	0977	L 0?1 0 4		905
4875	36	48		CW		X	1	0984	)		905
4876	36	49		B	NXGUY	X	4	0985	B Z77		905
4877	36	50	NEW	BCE	CKLST,2&X3,,	X	8	0989	B X98 0?2 ,		905
4878	36	51		SBR	X3	X	4	0997	H 099		905
4879	36	52	SNDPT	LCA	@. @,000&X2	X	7	1001	L !57 0!0		906
4880	36	53		SBR	X2	X	4	1008	H 094		906
4881	36	54		CW	001&X2	X	4	1012	) 0!1		906
4882	36	55		S	COUNT#1	X	4	1016	S !58		906
4883	36	56	MAIN	SBR	X3,001&X3	X	7	1020	H 099 0?1		906
4884	36	57		BCE	RTPAR,000&X3,)	X	8	1027	B S72 0?0 )		906
4885	36	58		BCE	DOLLR,000&X3,\$	X	8	1035	B X37 0?0 \$		907
4886	36	59		B	RUADR	X	4	1043	B Y42		907
4887	36	60		LCA	ADRSS,000&X2	X	7	1047	L J45 0!0		907
4888	36	61		SBR	X2	X	4	1054	H 094		907
4889	36	62		BCE	CKWMK,0&X3,,	X	8	1058	B S60 0?0 ,		907
4890	36	63		BCE	LFPAR,0&X3,%	X	8	1066	B U67 0?0 %		907

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4891	36	64		B	RUADR	X	4	1074	B Y42		908
4892	36	65		LCA	ADRSS,000&X2	X	7	1078	L J45 0!0		908
4893	36	66		LCA	@,@	X	4	1085	L !59		908
4894	36	67		SBR	X2	X	4	1089	H 094		908
4895	36	68		CW	5&X2	X	4	1093	) 0!5		908
4896	36	69		CW	001&X2	X	4	1097	) 0!1		908
4897	36	70		MZ	3&X2,SVZN#1	X	7	1101	Y 0!3 !60		908
4898	36	71		MCW	X1,SV1#3	X	7	1108	M 089 !63		909
4899	36	72		ZA	PARAMA&4,HOLD5	X	7	1115	? 690 !68		909
4900	36	73		BWZ	DUN2,3&X2,K	X	8	1122	V /37 0!3 K		909
4901	36	74		MCW	PARAMA&6,HOLD5#5	X	7	1130	M 692 !68		909
4902	36	75	DUN2	S	&16000,HOLD5	X	7	1137	S !73 !68		909
4903	36	76		FPACK	HOLD5,HOLD3,X1	X				MACRO	
4904				INCLD	ZONES	X				MACRO	
4905				MN	HOLD5,HOLD3	X	7	1144	D !68 !77	GEN	910
4906				MN		X	1	1151	D	GEN	910
4907				MN		X	1	1152	D	GEN	910
4908				SAR	*&4	X	4	1153	Q /60	GEN	910
4909				MCW	0,X1	X	7	1157	M 000 089	GEN	910
4910				MCW	@0@	X	4	1164	M !74	GEN	910
4911				A	X1	X	4	1168	A 089	GEN	910
4912				MZ	ZONES&1&X1,HOLD3	X	7	1172	Y !S0 !77	GEN	911
4913				CW		X	1	1179	)	GEN	911
4914				SBR	*&7	X	4	1180	H /90	GEN	911
4915				MZ	ZONES&X1, 0	X	7	1184	Y !/9 000	GEN	911
4916	36	77		MCW	HOLD3#3,X1	X	7	1191	M !77 089		911
4917	36	78		MCW	4&X2,SBR4&6	X	7	1198	M 0!4 S18		911
4918	36	79		MZ	*-6,SBR4&5	X	7	1205	Y S05 S17		912
4919	36	80	SBR4	SBR	4&X2,0	X	7	1212	H 0!4 000		912
4920	36	81		MZ	SVZN,3&X2	X	7	1219	Y !60 0!3		912
4921	36	82		MCW	SV1,X1	X	7	1226	M !63 089		912
4922	36	83		MZ	*-4,6&X2	X	7	1233	Y S35 0!6		912
4923	36	84	CKLFP	BCE	LFPAR,0&X3,%	X	8	1240	B U67 0?0 %		913
4924	36	85	CKCOM	C	000&X3,@,@	X	7	1248	C 0?0 !59		913
4925	36	86		BU	ERROR	X	5	1255	B Z22 /		913
4926	36	87	CKWMK	BWZ	FNLIZ,000&X3,1	X	8	1260	V W97 0?0 1		913
4927	36	88		B	MAIN	X	4	1268	B  20		913
4928	36	89	RTPAR	BCE	SETUP,COUNT,?	X	8	1272	B W34 !58 ?		914
4929	36	90	PUTS	MCW	X1,SAVE1#3	X	7	1280	M 089 !80		914
4930	36	91		LCA	@. @,000&X1	X	7	1287	L !57 0 0		914
4931	36	92		SBR	X1	X	4	1294	H 089		914
4932	36	93		A	&1,COUNT	X	7	1298	A !81 !58		914
4933	36	94		BCE	ERROR,COUNT,D	X	8	1305	B Z22 !58 D		915
4934	36	95		B	PUTMI	X	4	1313	B W52		915
4935	36	96		C	000&X3,@,@	X	7	1317	C 0?0 !59		915
4936	36	97		BU	ERROR	X	5	1324	B Z22 /		915
4937	36	98		B	PUTMI	X	4	1329	B W52		915
4938	36	99		BCE	PUTMI,000&X3,,	X	8	1333	B W52 0?0 ,		915
4939	37	00		C	000&X3,@#@	X	7	1341	C 0?0 !82		916
4940	37	01		BU	ERROR	X	5	1348	B Z22 /		916



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4941	37	02		B	PUTMI	X	4	1353	B W52		916
4942	37	03		SBR	000&X1,001&X2	X	7	1357	H 0 0 0!1		916
4943	37	04		CW	000&X1	X	4	1364	) 0 0		916
4944	37	05		CW		X	1	1368	)		916
4945	37	06		SW		X	1	1369	,		916
4946	37	07		SAR	X1	X	4	1370	Q 089		917
4947	37	08		MCW	X3,HEX3#3	X	7	1374	M 099 !85		917
4948	37	09		MN	000&X3	X	4	1381	D 0?0		917
4949	37	10		SAR	X3	X	4	1385	Q 099		917
4950	37	11	LOOPY	BCE	INNER,002&X3,%	X	8	1389	B U21 0?2 %		917
4951	37	12		BCE	OUTER,002&X3,)	X	8	1397	B U40 0?2 )		917
4952	37	13		BWZ	ERROR,002&X3,1	X	8	1405	V Z22 0?2 1		918
4953	37	14		SBR	X3	X	4	1413	H 099		918
4954	37	15		B	LOOPY	X	4	1417	B T89		918
4955	37	16	INNER	LCA	@)@,000&X2	X	7	1421	L !86 0!0		918
4956	37	17		SBR	X2	X	4	1428	H 094		918
4957	37	18		CW	001&X2	X	4	1432	) 0!1		918
4958	37	19		B	RESTR	X	4	1436	B U56		918
4959	37	20	OUTER	LCA	@# @,000&X2	X	7	1440	L !90 0!0		919
4960	37	21		SBR	X2	X	4	1447	H 094		919
4961	37	22		SW	002&X2	X	4	1451	, 0!2		919
4962	37	23		CW		X	1	1455	)		919
4963	37	24	RESTR	MCW	HEX3,X3	X	7	1456	M !85 099		919
4964	37	25		B	CKCOM	X	4	1463	B S48		919
4965	37	26	LFPAR	S	&1,COUNT	X	7	1467	S !81 !58		919
4966	37	27		BWZ	ERROR,COUNT,K	X	8	1474	V Z22 !58 K		920
4967	37	28		MA	MACFLS,3&X1	X	7	1482	# 163 0 3		920
4968	37	29		LCA	003&X1,000&X2	X	7	1489	L 0 3 0!0		920
4969	37	30		LCA	6&X1	X	4	1496	L 0 6		920
4970	37	31		SBR	X2	X	4	1500	H 094		920
4971	37	32		BCE	M3IS1,013&X1,.	X	8	1504	B W19 0/3 .		920
4972	37	33		LCA	015&X1,000&X2	X	7	1512	L 0/5 0!0		921
4973	37	34		SBR	X2	X	4	1519	H 094		921
4974	37	35	SNDM2	LCA	012&X1,000&X2	X	7	1523	L 0/2 0!0		921
4975	37	36		LCA		X	1	1530	L		921
4976	37	37		LCA	@%@	X	4	1531	L !91		921
4977	37	38		SBR	X2	X	4	1535	H 094		921
4978	37	39		CW	001&X2	X	4	1539	) 0!1		921
4979	37	40	SWTCH	NOP	SWOFF	X	4	1543	N W08		922
4980	37	41		MCW	003&X1,X1	X	7	1547	M 0 3 089		922
4981	37	42		MN	000&X1	X	4	1554	D 0 0		922
4982	37	43		SAR	X1	X	4	1558	Q 089		922
4983	37	44		MA	PLUSDF,X1	X	7	1562	# 160 089		922
4984	37	45		MA	MACFLS,X2	X	7	1569	# 163 094		922
4985	37	46		SBR	0&X1,1&X2	X	7	1576	H 0 0 0!1		923
4986	37	47		MA	PLUSDF,X2	X	7	1583	# 160 094		923
4987	37	48	BUMP	SBR	X3,001&X3	X	7	1590	H 099 0?1		923
4988	37	49		MCW	SAVE1,X1	X	7	1597	M !80 089		923
4989	37	50		B	CKLFP	X	4	1604	B S40		923
4990	37	51	SWOFF	MCW	@N@,SWTCH	X	7	1608	M !92 V43		923

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
4991	37	52		B	BUMP	X	4	1615	B V90		924
4992	37	53	M3IS1	LCA	ADONE,000&X2	X	7	1619	L 142 0!0		924
4993	37	54		SBR	X2	X	4	1626	H 094		924
4994	37	55		B	SNDM2	X	4	1630	B V23		924
4995	37	56	SETUP	SBR	X1,SPACE#48	X	7	1634	H 089 J40		924
4996	37	57		MCW	@B@,SWTCH	X	7	1641	M J41 V43		924
4997	37	58		B	PUTS	X	4	1648	B S80		924
4998	37	59	PUTMI	SBR	EXPMI&3	X	4	1652	H W96		925
4999	37	60		SBR	X3,001&X3	X	7	1656	H 099 0?1		925
5000	37	61		B	RUADR	X	4	1663	B Y42		925
5001	37	62		LCA	ADRSS,000&X1	X	7	1667	L J45 0 0		925
5002	37	63		SBR	X1	X	4	1674	H 089		925
5003	37	64		MZ	*-4,2&X1	X	7	1678	Y W80 0 2		925
5004	37	65		BWZ	ERROR,000&X3,1	X	8	1685	V Z22 0?0 1		926
5005	37	66	EXPMI	B	000	X	4	1693	B 000		926
5006	37	67	FNLIZ	C	COUNT,@?@	X	7	1697	C !58 J42		926
5007	37	68		BU	ERROR	X	5	1704	B Z22 /		926
5008	37	69		CW	000&X3	X	4	1709	) 0?0		926
5009	37	70		CW		X	1	1713	)		926
5010	37	71		SW		X	1	1714	,		926
5011	37	72		SAR	X3	X	4	1715	Q 099		927
5012	37	73		SBR	003&X3,001&X2	X	7	1719	H 0?3 0!1		927
5013	37	74		MA	MACFLS,3&X3	X	7	1726	# 163 0?3		927
5014	37	75		B	NXGUY	X	4	1733	B Z77		927
5015	37	76	DOLLR	SW	0&X3	X	4	1737	, 0?0		927
5016	37	77		SAR	X3	X	4	1741	Q 099		927
5017	37	78		SBR	CW&3,1&X3	X	7	1745	H X93 0?1		927
5018	37	79	LOOP	BCE	NDOLR,2&X3,\$	X	8	1752	B X68 0?2 \$		928
5019	37	80		SBR	X3	X	4	1760	H 099		928
5020	37	81		B	LOOP	X	4	1764	B X52		928
5021	37	82	NDOLR	LCA	2&X3,0&X2	X	7	1768	L 0?2 0!0		928
5022	37	83		SBR	X2	X	4	1775	H 094		928
5023	37	84		CW	1&X2	X	4	1779	) 0!1		928
5024	37	85		SBR	X3,3&X3	X	7	1783	H 099 0?3		928
5025	37	86	CW	CW	0	X	4	1790	) 000		929
5026	37	87		B	CKLFP	X	4	1794	B S40		929
5027	37	88	CKLST	BWZ	RMVCM,2&X3,1	X	8	1798	V Y17 0?2 1		929
5028	37	89		SBR	X3,2&X3	X	7	1806	H 099 0?2		929
5029	37	90		B	SNDPT	X	4	1813	B  01		929
5030	37	91	RMVCM	SW	3&X3	X	4	1817	, 0?3		929
5031	37	92		CW		X	1	1821	)		929
5032	37	93	CKTYP	FBCEQ	ERROR, CODE-3, 1, 3	X				MACRO	
5033			CKTYP	BCE	ERROR, CODE-3, 1	X	8	1822	B Z22 838 1	GEN	930
5034				BCE	ERROR, CODE-3, 3	X	8	1830	B Z22 838 3	GEN	930
5035	37	94		B	EMASQ	X	4	1838	B Z63		930
5036	37	95	RUADR	SBR	EXRUA&3	X	4	1842	H Y96		930
5037	37	96		MN	002&X3,EXRUK&7	X	7	1846	D 0?2 Z08		930
5038	37	97		B	RUOK	X	4	1853	B Y97		930
5039	37	98		MN	001&X3,EXRUK&7	X	7	1857	D 0?1 Z08		931
5040	37	99		B	RUOK	X	4	1864	B Y97		931

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5041	38	00		MN	000&X3,EXRUK&7	X	7	1868	D 0?0 Z08		931
5042	38	01		B	RUOK	X	4	1875	B Y97		931
5043	38	02		MCW	002&X3,ADRSS#3	X	7	1879	M 0?2 J45		931
5044	38	03		SBR	X3,003&X3	X	7	1886	H 099 0?3		931
5045	38	04	EXRUA	B	000	X	4	1893	B 000		932
5046	38	05	RUOK	SBR	EXRUK&3	X	4	1897	H Z04		932
5047	38	06	EXRUK	BCE	000,@0123456789@,0	X	8	1901	B 000 J55 0		932
5048	38	07		CHAIN	9	X				MACRO	
5049				BCE		X	1	1909	B	GEN	932
5050				BCE		X	1	1910	B	GEN	932
5051				BCE		X	1	1911	B	GEN	932
5052				BCE		X	1	1912	B	GEN	932
5053				BCE		X	1	1913	B	GEN	933
5054				BCE		X	1	1914	B	GEN	933
5055				BCE		X	1	1915	B	GEN	933
5056				BCE		X	1	1916	B	GEN	933
5057				BCE		X	1	1917	B	GEN	933
5058	38	08		B	ERROR	X	4	1918	B Z22		933
5059	38	09	ERROR	FTMSG	47,BAD LIST,CODE,10	X				MACRO	
5060			ERROR	CS	332	X	4	1922	/ 332	GEN	933
5061				CS		X	1	1926	/	GEN	934
5062				SW	FAILSW	X	4	1927	, 184	GEN	934
5063				MN	CODE,224&10	X	7	1931	D 841 234	GEN	934
5064				MN		X	1	1938	D	GEN	934
5065				MN		X	1	1939	D	GEN	934
5066				MCW	@ERROR 47 - BAD LIST, STATEMENT @	X	4	1940	M J86	GEN	934
5067				W		X	1	1944	2	GEN	934
5068				BCV	*&5	X	5	1945	B Z54 @	GEN	935
5069				B	*&3	X	4	1950	B Z56	GEN	935
5070				CC	1	X	2	1954	F 1	GEN	935
5071	38	10		MCW	@/@,CODE-3	X	7	1956	M J87 838		935
5072	38	11	EMASQ	MCW	CODE,000	X	7	1963	M 841 000		935
5073	38	12		MCW	HEX2,X2	X	7	1970	M !53 094		935
5074	38	13	NXGUY	SBR	X1,0	X	7	1977	H 089 000		935
5075	38	14		B	GO	X	4	1984	B 852		936
5076	38	15	OUT	MCW	ABOTM,X1	X	7	1988	M 844 089		936
5077	38	16		FENDX	C,,,,,SYS2,LISTR TRI	X				MACRO	
5078				BSS	333,C	X	5	1995	B 333 C	GEN	936
5079				SBR	TCLEAR,SYS2	X	7	2000	H 710 J97	GEN	936
5080				LCA	@LISTR TRI@,110	X	7	2007	L J96 110	GEN	936
5081				B	MONTER	X	4	2014	B 700	GEN	936
5082	38	17		ORG	*	X			2018		
5083				LTORG	* WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG	X			2018		
5084				DCW	#1	X	1	2018		GEN	936
5085			ZONES	DC	9	X	1	2019		GEN	936
5086				DCW	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	X	31	2050		GEN	937
			*	LTORG*						GEN	
			HEX2 X	DCW	#03	X	3	2053		AREA	937
			HEX1 X	DCW	#03	X	3	2056		AREA	937
				DCW	@.@	X	1	2057		LIT	937

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			COUNTX	DCW	#01	X	1	2058		AREA	937
				DCW	@,@	X	1	2059		LIT	938
			SVZN	X DCW	#01	X	1	2060		AREA	938
			SV1	X DCW	#03	X	3	2063		AREA	938
			HOLD5X	DCW	#05	X	5	2068		AREA	938
				DCW	&16000	X	5	2073		LIT	938
				DCW	@0@	X	1	2074		LIT	938
			HOLD3X	DCW	#03	X	3	2077		AREA	938
			SAVE1X	DCW	#03	X	3	2080		AREA	939
				DCW	&1	X	1	2081		LIT	939
				DCW	@#@	X	1	2082		LIT	939
			HEX3	X DCW	#03	X	3	2085		AREA	939
				DCW	@)@	X	1	2086		LIT	939
				DCW	@# @	X	4	2090		LIT	939
				DCW	@%@	X	1	2091		LIT	939
				DCW	@N@	X	1	2092		LIT	940
			SPACEX	DCW	#48	X	48	2140		AREA	942
				DCW	@B@	X	1	2141		LIT	942
				DCW	@?@	X	1	2142		LIT	942
			ADRSSX	DCW	#03	X	3	2145		AREA	942
				DCW	@0123456789@	X	10	2155		LIT	942
				DCW	@ERROR 47 - BAD LIST, STATEMENT @	X	31	2186		LIT	943
				DCW	@/@	X	1	2187		LIT	943
				DCW	@LISTR TRI@	X	9	2196		LIT	944
5087	38	18	SYS2	DCW	@}@	X	1	2197		GMARK	944
5088	38	19	ADONE	EQU	ONEADR	X		0142			
5089	38	20		XFR	PHSE2	X			B 845		945

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5090	38	21		JOB	1401 FORTRAN    LISTS PHASE THREE	X					
5091	38	22	110	DCW	@LISTR TRI@	X	9	0110			948
5092	38	23	*	MOVES	DOWN PROGRAM						
5093	38	24		ORG	PHSE2	X			0845		
5094	38	25	PHSE3	MCW	X2,NXBTM	X	7	0845	M 094 083		949
5095	38	26		SW	GM	X	4	0852	,  11		949
5096	38	27		LCA	GM,0&X2	X	7	0856	L  11 0!0		949
5097	38	28		SBR	X2	X	4	0863	H 094		949
5098	38	29	BEGIN	BWZ	NOLST,000&X1,1	X	8	0867	V 918 0 0 1		949
5099	38	30		B	SLIDE	X	4	0875	B 942		949
5100	38	31		B	SLIDE	X	4	0879	B 942		949
5101	38	32		BCE	BEGIN,1&X2,}	X	8	0883	B 867 0!1 } GMARK		950
5102	38	33		CW	001&X2	X	4	0891	) 0!1		950
5103	38	34		C	0&X1	X	4	0895	C 0 0		950
5104	38	35		SAR	X1	X	4	0899	Q 089		950
5105	38	36		SBR	X1,001&X1	X	7	0903	H 089 0 1		950
5106	38	37		B	SLIDE	X	4	0910	B 942		950
5107	38	38		B	BEGIN	X	4	0914	B 867		950
5108	38	39	NOLST	CW	000&X1	X	4	0918	) 0 0		951
5109	38	40	RUDUN	BCE	EXPH3,000&X1,                BLANK	X	8	0922	B 969 0 0		951
5110	38	41		B	SLIDE	X	4	0930	B 942		951
5111	38	42		B	SLIDE	X	4	0934	B 942		951
5112	38	43		B	RUDUN	X	4	0938	B 922		951
5113	38	44	SLIDE	SBR	EXSLD&3	X	4	0942	H 968		951
5114	38	45		MVDWN	X1,X2	X				MACRO	
5115				LCA	0&X1,0&X2	X	7	0946	L 0 0 0!0	GEN	951
5116				SAR	X1	X	4	0953	Q 089	GEN	952
5117				C	0&X2	X	4	0957	C 0!0	GEN	952
5118				SAR	X2	X	4	0961	Q 094	GEN	952
5119	38	46	EXSLD	B	000	X	4	0965	B 000		952
5120	38	47	EXPH3	FENDX	D,, ,XBEGIN,PHSE2N,XBEGIN,SYS3,STNUM2	X				MACRO	
5121			EXPH3	BSS	333,D	X	5	0969	B 333 D	GEN	952
5122				SBR	INITAP&6,XBEGIN	X	7	0974	H 786 838	GEN	952
5123				SBR	BCLEAR	X	4	0981	H 833	GEN	952
5124				SBR	INITXT&3,PHSE2N	X	7	0985	H 796 937	GEN	953
5125				SBR	TCLEAR,SYS3	X	7	0992	H 710  18	GEN	953
5126				LCA	@STNUM2@,110	X	7	0999	L  17 110	GEN	953
5127				B	MONTER	X	4	1006	B 700	GEN	953
5128	38	48		DCW	@ @                BLANK	X	1	1010			953
5129	38	49	GM	DC	@}@                GROUP MARK	X	1	1011		GMARK	953
5130	38	50		LTORG	*	X			1012		
				DCW	@STNUM2@	X	6	1017		LIT	953
5131	38	51	SYS3	DCW	@}@                SYSTEM GROUP MARK	X	1	1018		GMARK	953
5132	38	52		XFR	PHSE3	X			B 845		954

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5133	38	53		JOB	1401 FORTRAN STATEMENT NUMBER DEFINER TWO	X					
5134	38	54		FBEGN	STNUM TWO,X1,,X2,,X3,R,N	X				MACRO	
5135				SFX	N	N				GEN	
5136			110	DCW	@STNUM TWO@	N	9	0110		GEN	957
5137			X1	EQU	089	N		0089		GEN	
5138			X2	EQU	094	N		0094		GEN	
5139			X3	EQU	099	N		0099		GEN	
5140			099	DCW	000	N	3	0099		GEN	958
5141			100	DC	0	N	1	0100		GEN	958
5142	38	55		ORG	XBEGIN	N			0838		
5143	38	56	BASE	DCW	#3	N	3	0840			959
5144	38	57	MAX	DCW	#4	N	4	0844			959
5145	38	58		DC	#2	N	2	0846			959
5146	38	59	UPLIM	DCW	#3	N	3	0849			959
5147	38	60	NOMO	DCW	#3	N	3	0852			959
5148	38	61	MVUP	SBR	EXMVP&3	N	4	0853	H 936		959
5149	38	62		MOVUP	X2,X1,NOMO,ALL,	N				MACRO	
5150				MN	0&X1	N	4	0857	D 0 0	GEN	959
5151				SAR	X1	N	4	0861	Q 089	GEN	959
5152			)0J131	MCM	0&X2	N	4	0865	P 0 0	GEN	960
5153				SAR	)0L131&6	N	4	0869	Q 891	GEN	960
5154				MCM	0&X2,1&X1	N	7	0873	P 0 0 0 1	GEN	960
5155				MN		N	1	0880	D	GEN	960
5156				SBR	X1	N	4	0881	H 089	GEN	960
5157			)0L131	SBR	X2,0	N	7	0885	H 094 000	GEN	960
5158				BCE	)0J131,0&X1,	N	8	0892	B 865 0 0	GEN	960
5159				MN	0&X2	N	4	0900	D 0 0	GEN	961
5160				CW		N	1	0904	)	GEN	961
5161				SW	0&X1	N	4	0905	, 0 0	GEN	961
5162				C	X2,NOMO	N	7	0909	C 094 852	GEN	961
5163				BU	)0J131	N	5	0916	B 865 /	GEN	961
5164	38	63		MN	000&X1	N	4	0921	D 0 0		961
5165	38	64		SAR	X1	N	4	0925	Q 089		961
5166	38	65		SBR	X2	N	4	0929	H 094		962
5167	38	66	EXMVP	B	000	N	4	0933	B 000		962
5168	38	67	NXBTM	EQU	083	N		0083			
5169	38	68	PHSE2	MCW	NXBTM,X3	N	7	0937	M 083 099		962
5170	38	69		SBR	NOMO,1&X3	N	7	0944	H 852 0?1		962
5171	38	70		MCW	X2,X3	N	7	0951	M 094 099		962
5172	38	71	CLR1	CS	000&X3	N	4	0958	/ 0?0		962
5173	38	72		SBR	X3	N	4	0962	H 099		962
5174	38	73		C	X3,&SAUCE-1	N	7	0966	C 099 T10		963
5175	38	74		BU	CLR1	N	5	0973	B 958 /		963
5176	38	75		SBR	X1,SAUCE-1	N	7	0978	H 089 A99		963
5177	38	76	* SHIFT SOURCE PROGRAM UP TO COMPILER PROGRAM								
5178	38	77		B	MVUP	N	4	0985	B 853		963
5179	38	78		SBR	BASE,5&X1	N	7	0989	H 840 0 5		963
5180	38	79		MN	TWO9,BASE	N	7	0996	D S75 840		963
5181	38	80		MN		N	1	1003	D		963
5182	38	81		MCW	NXBTM,X3	N	7	1004	M 083 099		964

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5183	38	82	*	CLEAR	BALANCE OF CORE						
5184	38	83	CLR2	CS	000&X3	N	4	1011	/ 0?0		964
5185	38	84		SBR	X3	N	4	1015	H 099		964
5186	38	85		C	X3,BASE	N	7	1019	C 099 840		964
5187	38	86		BU	CLR2	N	5	1026	B  11 /		964
5188	38	87		MCW	@<@,0&X3 12-6-8	N	7	1031	M T11 0?0		964
5189	38	88	*	DIVIDE	REST OF CORE FOR TABLES RATIO 3 TO 7						
5190	38	89		MCW	NXBTM,LOC	N	7	1038	M 083 S73		965
5191	38	90		B	UNPAK	N	4	1045	B S00		965
5192	38	91		MCW	NUM#5,MAX&2	N	7	1049	M T16 846		965
5193	38	92		MCW	BASE,LOC	N	7	1056	M 840 S73		965
5194	38	93		B	UNPAK	N	4	1063	B S00		965
5195	38	94		S	NUM,MAX&2	N	7	1067	S T16 846		965
5196	38	95		A	MAX&2	N	4	1074	A 846		966
5197	38	96		A	MAX&2	N	4	1078	A 846		966
5198	38	97		A	MAX&2	N	4	1082	A 846		966
5199	38	98		A	MAX&2	N	4	1086	A 846		966
5200	38	99		A	MAX,ACCUM#6	N	7	1090	A 844 T22		966
5201	39	00		A	ACCUM	N	4	1097	A T22		966
5202	39	01		A	MAX,ACCUM 3*MAX IN ACCUM	N	7	1101	A 844 T22		966
5203	39	02		A	NUM,ACCUM	N	7	1108	A T16 T22		967
5204	39	03		MCW	ACCUM-3,X3	N	7	1115	M T19 099		967
5205	39	04		A	X3	N	4	1122	A 099		967
5206	39	05		MZ	ZONES&X3,ACCUM-2	N	7	1126	Y SG6 T20		967
5207	39	06		MZ	ZONES&1&X3,ACCUM	N	7	1133	Y SG7 T22		967
5208	39	07		MCW	ACCUM,X3	N	7	1140	M T22 099		967
5209	39	08		SW	002&X3	N	4	1147	, 0?2		968
5210	39	09		MCW	@<@ 12-6-8	N	4	1151	M T11		968
5211	39	10		SBR	UPLIM	N	4	1155	H 849		968
5212	39	11		FENDX	C, , , PHSE2, PHSE3, PHSE2, SAUCE-1, STNUM TRI	N				MACRO	
5213				BSS	333,C	N	5	1159	B 333 C	GEN	968
5214				SBR	INITAP&6, PHSE2	N	7	1164	H 786 937	GEN	968
5215				SBR	BCLEAR	N	4	1171	H 833	GEN	968
5216				SBR	INITXT&3, PHSE3	N	7	1175	H 796 /87	GEN	968
5217				SBR	TCLEAR, SAUCE-1	N	7	1182	H 710 A99	GEN	969
5218				LCA	@STNUM TRI@,110	N	7	1189	L T31 110	GEN	969
5219				B	MONTER	N	4	1196	B 700	GEN	969
5220	39	12	UNPAK	SBR	EXIT&3	N	4	1200	H S68		969
5221	39	13		MN	LOC,NUM	N	7	1204	D S73 T16		969
5222	39	14		MN		N	1	1211	D		969
5223	39	15		MN		N	1	1212	D		969
5224	39	16		MCW		N	1	1213	M		970
5225	39	17		MZ	LOC,TWO9	N	7	1214	Y S73 S75		970
5226	39	18		MZ	LOC-2,TWO9-1	N	7	1221	Y S71 S74		970
5227	39	19		SBR	X3,ZONES-3	N	7	1228	H 099 S73		970
5228	39	20	COMP	C	004&X3,TWO9	N	7	1235	C 0?4 S75		970
5229	39	21		SAR	X3	N	4	1242	Q 099		970
5230	39	22		A	&1,NUM-3	N	7	1246	A T32 T13		971
5231	39	23		BU	COMP	N	5	1253	B S35 /		971
5232	39	24		MZ	@ @,NUM-3	N	7	1258	Y T33 T13		971

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5233	39	25	EXIT	B	0	N	4	1265	B 000		971
5234	39	26	LOC	DCW	@0J @	N	5	1273			971
5235	39	27	TWO9	DCW	@99@	N	2	1275			971
5236	39	28	ZONES	DC	@9@	N	1	1276			971
5237	39	29		DC	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	N	31	1307			972
5238	39	30		LTORG	*	N			1308		
				DCW	&SAUCEN-1	N	3	1310	A99	ADCON	972
				DCW	@<@	N	1	1311		LIT	972
			NUM N	DCW	#05	N	5	1316		AREA	973
			ACCUMN	DCW	#06	N	6	1322		AREA	973
				DCW	@STNUM TRI@	N	9	1331		LIT	973
				DCW	&1	N	1	1332		LIT	973
				DCW	@ @	N	1	1333		LIT	973
5239	39	31		DCW	@}@	N	1	1334		GMARK	973
5240	39	32		XFR	PHSE2	N			B 937		974

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5241	39	33		JOB	1401 FORTRAN STATEMENT NUMBER PHASE THREE	N					
5242	39	34	110	DCW	@STNUM TRI@	N	9	0110			977
5243	39	35		ORG	PHSE2	N			0937		
5244	39	36	SLIDE	SBR	EXSLD&3	N	4	0937	H 963		978
5245	39	37		MVDWN	X1,X2	N				MACRO	
5246				LCA	0&X1,0&X2	N	7	0941	L 0 0 0!0	GEN	978
5247				SAR	X1	N	4	0948	Q 089	GEN	978
5248				C	0&X2	N	4	0952	C 0!0	GEN	978
5249				SAR	X2	N	4	0956	Q 094	GEN	978
5250	39	38	EXSLD	B	000	N	4	0960	B 000		978
5251	39	39	RANDM	SBR	EXRDM&3	N	4	0964	H  47		978
5252	39	40		MCW	000&X1,ALPH	N	7	0968	M 0 0  51		979
5253	39	41		SAR	HEX1	N	4	0975	Q  54		979
5254	39	42		MN	ALPH,MOD	N	7	0979	D  51  58		979
5255	39	43		CHAIN	3 BLANK IN ALPH-3 IMPLIES 3 DIGIT NO. IN MOD	N				MACRO	
5256				MN		N	1	0986	D	GEN	979
5257				MN		N	1	0987	D	GEN	979
5258				MN		N	1	0988	D	GEN	979
5259	39	44	SUBTR	S	MAX,MOD	N	7	0989	S 844  58		979
5260	39	45		BWZ	SUBTR,MOD,B	N	8	0996	V 989  58 B		980
5261	39	46		A	MAX,MOD	N	7	1004	A 844  58		980
5262	39	47		MZ	*-4,MOD	N	7	1011	Y  13  58		980
5263	39	48		MCW	MOD,X1	N	7	1018	M  58 089		980
5264	39	49		A	X1	N	4	1025	A 089		980
5265	39	50		A	MOD,X1	N	7	1029	A  58 089		981
5266	39	51	BUMP	NOP	000 INITIALIZED BY PHSE3	N	4	1036	N 000		981
5267	39	52		SAR	X1	N	4	1040	Q 089		981
5268	39	53	EXRDM	B	000	N	4	1044	B 000		981
5269	39	54		DCW	#1	N	1	1048			981
5270	39	55	ALPH	DCW	#3	N	3	1051			981
5271	39	56	HEX1	DCW	#3	N	3	1054			981
5272	39	57	MOD	DCW	#4	N	4	1058			982
5273	39	58	CODE	DCW	#4	N	4	1062			982
5274	39	59	NEXT	DCW	#3	N	3	1065			982
5275	39	60	FULL	FQUIT		N				MACRO	
5276			FULL	CS	332	N	4	1066	/ 332	GEN	982
5277				CS		N	1	1070	/	GEN	982
5278				CC	1	N	2	1071	F 1	GEN	982
5279				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	N	7	1073	M /79 270	GEN	982
5280				W		N	1	1080	2	GEN	983
5281				CC	1	N	2	1081	F 1	GEN	983
5282				BCE	*&6,MONTOR,1	N	8	1083	B  96 769 1	GEN	983
5283				RWD	1	N	5	1091	U %U1 R	GEN	983
5284				H	*-3	N	4	1096	.  96	GEN	983
5285	39	61	OUT	MCW	SAVE1,X1	N	7	1100	M /43 089		983
5286	39	62		FENDX	C,,PHSE3,,PHSE3,SYS3,STNUM 4	N				MACRO	
5287				BSS	333,C	N	5	1107	B 333 C	GEN	983
5288				SBR	INITAP&6,PHSE3	N	7	1112	H 786 /87	GEN	984
5289				SBR	BCLEAR	N	4	1119	H 833	GEN	984
5290				SBR	TCLEAR,SYS3	N	7	1123	H 710 W89	GEN	984

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5291				LCA	@STNUM 4@,110	N	7	1130	L /86 110	GEN	984
5292				B	MONTER	N	4	1137	B 700	GEN	984
5293	39	63	SAVE1	DCW	#3	N	3	1143			984
5294	39	64		LTORG	*	N			1144		
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	N	36	1179		LIT	985
				DCW	@STNUM 4@	N	7	1186		LIT	986
5295	39	65	PHSE3	MCW	NXBTM,NEXT	N	7	1187	M 083  65		986
5296	39	66		MCW	NXBTM,ADTBLL	N	7	1194	M 083 145		986
5297	39	67		MCW	BASE,BUMP&3	N	7	1201	M 840  39		986
5298	39	68		MZ	@S@,BUMP&2	N	7	1208	Y W67  38		986
5299	39	69		SBR	NOMO,2&X2	N	7	1215	H 852 0!2		987
5300	39	70		MCW	X1,SAVE1	N	7	1222	M 089 /43		987
5301	39	71	RUCGT	MCW	000&X1,CODE	N	7	1229	M 0 0  62		987
5302	39	72		BCE	CGOTO,CODE-3,T	N	8	1236	B T67  59 T		987
5303	39	73		MCW	@B@,SWCH	N	7	1244	M W68 V83		987
5304	39	74		MCW	NEXT,NXBTM	N	7	1251	M  65 083		988
5305	39	75		C	X1,X2	N	7	1258	C 089 094		988
5306	39	76		BE	*&5	N	5	1265	B S74 S		988
5307	39	77		B	MVUP	N	4	1270	B 853		988
5308	39	78	NORML	BCE	OUT,000&X1, BLANK	N	8	1274	B /00 0 0		988
5309	39	79		MCW	000&X1,CODE	N	7	1282	M 0 0  62		988
5310	39	80		B	SLIDE	N	4	1289	B 937		989
5311	39	81		MCW	CODE-3,*&8	N	7	1293	M  59 T07		989
5312	39	82		BCE	WORRY,@WTDEGK@,0	N	8	1300	B T21 W74 0		989
5313	39	83		CHAIN	5	N				MACRO	
5314				BCE		N	1	1308	B	GEN	989
5315				BCE		N	1	1309	B	GEN	989
5316				BCE		N	1	1310	B	GEN	989
5317				BCE		N	1	1311	B	GEN	989
5318				BCE		N	1	1312	B	GEN	990
5319	39	84	BTMNL	B	SLIDE	N	4	1313	B 937		990
5320	39	85		B	NORML	N	4	1317	B S74		990
5321	39	86	WORRY	B	RANDM	N	4	1321	B 964		990
5322	39	87		B	CHAIN	N	4	1325	B V33		990
5323	39	88		MCW	X3,000&X2	N	7	1329	M 099 0!0		990
5324	39	89		SBR	X2	N	4	1336	H 094		990
5325	39	90		MCW	HEX1,X1	N	7	1340	M  54 089		991
5326	39	91		BCE	BTMNL,000&X1,}	N	8	1347	B T13 0 0 }	GMARK	991
5327	39	92		BCE	BTMNL,000&X1,,	N	8	1355	B T13 0 0 ,		991
5328	39	93		B	WORRY	N	4	1363	B T21		991
5329	39	94	CGOTO	C	0&X1	N	4	1367	C 0 0		991
5330	39	95		MN		N	1	1371	D		991
5331	39	96		SAR	X3	N	4	1372	Q 099		991
5332	39	97		S	COUNT#3	N	4	1376	S W77		992
5333	39	98	RTLFT	MN	000&X3	N	4	1380	D 0?0		992
5334	39	99		MN		N	1	1384	D		992
5335	40	00		MN		N	1	1385	D		992
5336	40	01		SAR	X3	N	4	1386	Q 099		992
5337	40	02		A	@1@,COUNT	N	7	1390	A W78 W77		992
5338	40	03		BCE	FORK,001&X3,,	N	8	1397	B U09 0?1 ,		992

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5339	40	04		B	RTLFT	N	4	1405	B T80		993
5340	40	05	FORK	S	&11,COUNT	N	7	1409	S W80 W77		993
5341	40	06		BWZ	BIG,COUNT,B PLUS	N	8	1416	V U36 W77 B		993
5342	40	07		B	SLIDE	N	4	1424	B 937		993
5343	40	08	BTMCG	B	SLIDE	N	4	1428	B 937		993
5344	40	09		B	RUCGT	N	4	1432	B S29		993
5345	40	10	BIG	MN	000&X1	N	4	1436	D 0 0		993
5346	40	11		MN		N	1	1440	D		994
5347	40	12		MN		N	1	1441	D		994
5348	40	13		MCW	@H@	N	4	1442	M W81		994
5349	40	14		B	SLIDE	N	4	1446	B 937		994
5350	40	15		MCW	X3,HEX3#3	N	7	1450	M 099 W84		994
5351	40	16		MN	000&X3	N	4	1457	D 0?0		994
5352	40	17		MN		N	1	1461	D		994
5353	40	18		SAR	X1	N	4	1462	Q 089		995
5354	40	19		A	&9,COUNT	N	7	1466	A W85 W77		995
5355	40	20	LOOP	SBR	X1,6&X1	N	7	1473	H 089 0 6		995
5356	40	21		B	RANDM	N	4	1480	B 964		995
5357	40	22		B	CHAIN	N	4	1484	B V33		995
5358	40	23		MCW	HEX1,X1	N	7	1488	M  54 089		995
5359	40	24		BCE	HEADR,004&X1,}	N	8	1495	B V07 0 4 } GMARK		996
5360	40	25		B	LOOP	N	4	1503	B U73		996
5361	40	26	HEADR	MCW	NEXT,000&X2	N	7	1507	M  65 0!0		996
5362	40	27		MCW	COUNT	N	4	1514	M W77		996
5363	40	28		SBR	X2	N	4	1518	H 094		996
5364	40	29		MCW	HEX3,X1	N	7	1522	M W84 089		996
5365	40	30		B	BTMCG	N	4	1529	B U28		996
5366	40	31	CHAIN	SBR	EXCHN&3	N	4	1533	H W44		997
5367	40	32		MCW	@N@,OVFLW	N	7	1537	M W86 W45		997
5368	40	33	AGAIN	MCW	000&X1,X3	N	7	1544	M 0 0 099		997
5369	40	34		SAR	X1	N	4	1551	Q 089		997
5370	40	35		BCE	NEW,003&X1, BLANK	N	8	1555	B W06 0 3		997
5371	40	36		BCE	OVFLW,003&X1,< 12-6-8 ALTER STNUM PHSE 1	N	8	1563	B W45 0 3 <		997
5372	40	37		C	000&X3,ALPH	N	7	1571	C 0?0  51		998
5373	40	38		BU	AGAIN	N	5	1578	B V44 /		998
5374	40	39	SWCH	NOP	EXCHN	N	4	1583	N W41		998
5375	40	40		MCW	NEXT,000&X3	N	7	1587	M  65 0?0		998
5376	40	41		SBR	X3	N	4	1594	H 099		998
5377	40	42		MZ	@ A@,002&X3 BLANK	N	7	1598	Y W88 0?2		998
5378	40	43		CW	DUMMY ON A-OPER, EFFECTIVE ON B-OPER	N	1	1605	)		998
5379	40	44	NEW	LCA	NEXT,003&X1	N	7	1606	L  65 0 3		999
5380	40	45		MCW	NEXT,X3	N	7	1613	M  65 099		999
5381	40	46		BCE	FULL,000&X3,< 12-6-8	N	8	1620	B  66 0?0 <		999
5382	40	47		B		N	1	1628	B		999
5383	40	48		B		N	1	1629	B		999
5384	40	49		LCA	ALPH,000&X3	N	7	1630	L  51 0?0		999
5385	40	50		SBR	NEXT	N	4	1637	H  65		999
5386	40	51	EXCHN	B	000	N	4	1641	B 000		1000
5387	40	52	OVFLW	NOP	FULL	N	4	1645	N  66		1000
5388	40	53		MCW	@B@,OVFLW	N	7	1649	M W68 W45		1000

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5389	40	54		MCW	UPLIM,X1	N	7	1656	M 849 089		1000
5390	40	55		B	AGAIN	N	4	1663	B V44		1000
5391	40	56		LTORG	*	N			1667		
				DCW	@S@	N	1	1667		LIT	1000
				DCW	@B@	N	1	1668		LIT	1000
				DCW	@WTDEGK@	N	6	1674		LIT	1001
			COUNTN	DCW	#03	N	3	1677		AREA	1001
				DCW	@1@	N	1	1678		LIT	1001
				DCW	&11	N	2	1680		LIT	1001
				DCW	@H@	N	1	1681		LIT	1001
			HEX3 N	DCW	#03	N	3	1684		AREA	1001
				DCW	&9	N	1	1685		LIT	1001
				DCW	@N@	N	1	1686		LIT	1002
				DCW	@ A@	N	2	1688		LIT	1002
5392	40	57	SYS3	DCW	@}@	N	1	1689		GMARK	1002
5393	40	58		ORG	NDRITH&X00	N			3200		
5394	40	59		ORG	*-5	N			3195		
5395	40	60		DCW	#5	N	5	3199			1003
5396	40	61	SAUCE	EQU	*&1	N		3200			
5397	40	62		XFR	PHSE3	N			B /87		1004

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5398	40	63		JOB	1401 FORTRAN STATEMENT NUMBER PHASE FOUR	N					
5399	40	64	110	DCW	@STNUM FOR@	N	9	0110			1007
5400	40	65		ORG	PHSE3	N			1187		
5401	40	66	PHSE4	LCA	@ @,000&X2 BLANK	N	7	1187	L W25 0!0		1008
5402	40	67		SW	GM	N	4	1194	, X25		1008
5403	40	68		MCW	X1,X2	N	7	1198	M 089 094		1008
5404	40	69	START	BCE	OUT1,0&X1, BLANK	N	8	1205	B U84 0!0		1008
5405	40	70		MCW	000&X1,CODE	N	7	1213	M 0!0  62		1008
5406	40	71		SAR	X1	N	4	1220	Q 089		1008
5407	40	72		BCE	NONUM,000&X1,} GROUP MK	N	8	1224	B V69 0!0 } GMARK		1009
5408	40	73		B	RANDM	N	4	1232	B 964		1009
5409	40	74		MCW	@N@,WRAP	N	7	1236	M W26 T90		1009
5410	40	75	NOTHR	MCW	000&X1,X3	N	7	1243	M 0!0 099		1009
5411	40	76		SAR	X1	N	4	1250	Q 089		1009
5412	40	77		BWZ	NOTYT,001&X1,1 WORD MK	N	8	1254	V S94 0!1 1		1009
5413	40	78		BCE	WRAP,003&X1,< 12-6-8	N	8	1262	B T90 0!3 <		1010
5414	40	79		BCE	UNREF,1&X1, BLANK	N	8	1270	B U12 0!1		1010
5415	40	80		C	003&X1,ALPH	N	7	1278	C 0!3  51		1010
5416	40	81		BU	NOTHR	N	5	1285	B S43 /		1010
5417	40	82		B	MULTY	N	4	1290	B U46		1010
5418	40	83	NOTYT	C	000&X3,ALPH	N	7	1294	C 0?0  51		1010
5419	40	84		BU	NOTHR	N	5	1301	B S43 /		1011
5420	40	85		MZ	CODE-1,ZONE#1	N	7	1306	Y  61 W27		1011
5421	40	86		MZ	*-4,CODE-1	N	7	1313	Y T15  61		1011
5422	40	87		MCW	CODE,000&X3	N	7	1320	M  62 0?0		1011
5423	40	88		SBR	X3	N	4	1327	H 099		1011
5424	40	89		CW	001&X3	N	4	1331	) 0?1		1011
5425	40	90		MCW	003&X1,CODE	N	7	1335	M 0!3  62		1012
5426	40	91		MZ	ZONE,CODE-1	N	7	1342	Y W27  61		1012
5427	40	92		MCW	ALPH,003&X1	N	7	1349	M  51 0!3		1012
5428	40	93		CW	001&X1	N	4	1356	) 0!1		1012
5429	40	94	HEX2X	MCW	HEX1,X1	N	7	1360	M  54 089		1012
5430	40	95	BOTM	SBR	X1,4&X1	N	7	1367	H 089 0!4		1012
5431	40	96		MCW	CODE	N	4	1374	M  62		1013
5432	40	97		B	SLIDE	N	4	1378	B 937		1013
5433	40	98		B	SLIDE	N	4	1382	B 937		1013
5434	40	99		B	START	N	4	1386	B S05		1013
5435	41	00	WRAP	NOP	UNREF	N	4	1390	N U12		1013
5436	41	01		MCW	@B@,WRAP	N	7	1394	M W28 T90		1013
5437	41	02		MCW	UPLIM,X1	N	7	1401	M 849 089		1013
5438	41	03		B	NOTHR	N	4	1408	B S43		1014
5439	41	04	UNREF	FTMSG	19,UNREFERENCED STMT NUMBER,CODE,26,NOFAIL	N				MACRO	
5440			UNREF	CS	332	N	4	1412	/ 332	GEN	1014
5441				CS		N	1	1416	/	GEN	1014
5442				MN	CODE,224&26	N	7	1417	D  62 250	GEN	1014
5443				MN		N	1	1424	D	GEN	1014
5444				MN		N	1	1425	D	GEN	1014
5445				MCW	@ERROR 19 - UNREFERENCED STMT NUMBER, STATEMENT @	N	4	1426	M W75	GEN	1014
5446				W		N	1	1430	2	GEN	1015
5447				BCV	*&5	N	5	1431	B U40 @	GEN	1015

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5448				B	* & 3	N	4	1436	B U42	GEN	1015
5449				CC	1	N	2	1440	F 1	GEN	1015
5450	41	05		B	PRNUM	N	4	1442	B V62		1015
5451	41	06	MULTY	FTMSG	20, DOUBLY DEFINED STMT, CODE, 21	N				MACRO	
5452			MULTY	CS	332	N	4	1446	/ 332	GEN	1015
5453				CS		N	1	1450	/	GEN	1015
5454				SW	FAILSW	N	4	1451	, 184	GEN	1016
5455				MN	CODE, 224 & 21	N	7	1455	D   62 245	GEN	1016
5456				MN		N	1	1462	D	GEN	1016
5457				MN		N	1	1463	D	GEN	1016
5458				MCW	@ERROR 20 - DOUBLY DEFINED STMT, STATEMENT @	N	4	1464	M X17	GEN	1016
5459				W		N	1	1468	2	GEN	1016
5460				BCV	* & 5	N	5	1469	B U78 @	GEN	1016
5461				B	* & 3	N	4	1474	B U80	GEN	1017
5462				CC	1	N	2	1478	F 1	GEN	1017
5463	41	07		B	HEX2X	N	4	1480	B T60		1017
5464	41	08	OUT1	MCW	NEXT, X3	N	7	1484	M   65 099		1017
5465	41	09		LCA	GM, 0 & X3	N	7	1491	L X25 0?0		1017
5466	41	10		SBR	X3	N	4	1498	H 099		1017
5467	41	11		SBR	BSAUCE	N	4	1502	H 148		1017
5468	41	12		CS	0 & X2	N	4	1506	/ 0!0		1018
5469	41	13		MCW	SAVE1, X1	N	7	1510	M / 43 089		1018
5470	41	14		SW	0 & X2	N	4	1517	, 0!0		1018
5471	41	15		FENDX	C, GM, , XBEGIN, XBEGIN, XBEGIN, SYS4, STNUM 5	N				MACRO	
5472				BSS	333, C	N	5	1521	B 333 C	GEN	1018
5473				SBR	INITAP & 6, XBEGIN	N	7	1526	H 786 838	GEN	1018
5474				SBR	BCLEAR	N	4	1533	H 833	GEN	1018
5475				SBR	INITXT & 3, XBEGIN	N	7	1537	H 796 838	GEN	1018
5476				SBR	TCLEAR, SYS4	N	7	1544	H 710 X26	GEN	1019
5477				LCA	@STNUM 5 @, 110	N	7	1551	L X24 110	GEN	1019
5478				B	MONTER	N	4	1558	B 700	GEN	1019
5479	41	16	PRNUM	MCW	HEX1, X1	N	7	1562	M   54 089		1019
5480	41	17	NONUM	BCE	PSUDO, CODE-3, D	N	8	1569	B V81   59 D		1019
5481	41	18		B	BOTM	N	4	1577	B T67		1019
5482	41	19	PSUDO	MCW	NEXT, X3	N	7	1581	M   65 099		1020
5483	41	20		MCW	CODE, 000 & X3	N	7	1588	M   62 0?0		1020
5484	41	21		SBR	X3	N	4	1595	H 099		1020
5485	41	22		BCE	FULL, 000 & X3, < 12-6-8	N	8	1599	B   66 0?0 <		1020
5486	41	23		MCW	NEXT, CODE	N	7	1607	M   65   62		1020
5487	41	24		SBR	NEXT, 1 & X3	N	7	1614	H   65 0?1		1021
5488	41	25		B	BOTM	N	4	1621	B T67		1021
5489	41	26		LTORG	*	N			1625		
				DCW	@ @	N	1	1625		LIT	1021
				DCW	@N@	N	1	1626		LIT	1021
			ZONE N	DCW	#01	N	1	1627		AREA	1021
				DCW	@B@	N	1	1628		LIT	1021
				DCW	@ERROR 19 - UNREFERENCED STMT NUMBER, STATEMENT @	N	47	1675		LIT	1023
				DCW	@ERROR 20 - DOUBLY DEFINED STMT, STATEMENT @	N	42	1717		LIT	1025
				DCW	@STNUM 5@	N	7	1724		LIT	1025
5490	41	27	GM	DC	@} @ GM	N	1	1725		GMARK	1025

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5491	41	28	SYS4	DCW	@}@	N	1	1726		GMARK	1025
5492	41	29		XFR	PHSE4	N			B /87		1026

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5493	41	30		JOB	1401 FORTRAN STATEMENT NUMBER PHASE FIVE	N					
5494	41	31		FBEGN	STNUM 5,X1,,X2,R,X3,,L	N				MACRO	
5495				SFX	L	L				GEN	
5496			110	DCW	@STNUM 5@	L	7	0110		GEN	1029
5497			X1	EQU	089	L		0089		GEN	
5498			X2	EQU	094	L		0094		GEN	
5499			094	DCW	000	L	3	0094		GEN	1030
5500			096	DC	00	L	2	0096		GEN	1030
5501			X3	EQU	099	L		0099		GEN	
5502	41	32		ORG	XBEGIN	L			0838		
5503	41	33	INITL	MCW	X3,HEX3#3	L	7	0838	M 099 S76		1031
5504	41	34		MCW	X1,HEX1#3	L	7	0845	M 089 S79		1031
5505	41	35		C	0&X3	L	4	0852	C 0?0		1031
5506	41	36		SAR	X3	L	4	0856	Q 099		1031
5507	41	37		CW	1&X3	L	4	0860	) 0?1		1031
5508	41	38		MCW	ADTBL,X2	L	7	0864	M 145 094		1031
5509	41	39		C	000&X2	L	4	0871	C 0!0		1031
5510	41	40		SAR	X2	L	4	0875	Q 094		1032
5511	41	41		C	X2,HEX3	L	7	0879	C 094 S76		1032
5512	41	42		BE	OUT	L	5	0886	B S37 S		1032
5513	41	43		MCW	ADTBL,CGBTM#3	L	7	0891	M 145 S82		1032
5514	41	44	START	BWZ	OUT,000&X1,1	L	8	0898	V S37 0!0 1		1032
5515	41	45		MCW	000&X1,CODE#4	L	7	0906	M 0!0 S86		1032
5516	41	46		C	000&X1	L	4	0913	C 0!0		1033
5517	41	47		SAR	X1	L	4	0917	Q 089		1033
5518	41	48		MCW	@ @,COUNT#3	L	7	0921	M S89 S92		1033
5519	41	49		BCE	WORRY,CODE-3,H	L	8	0928	B 968 S83 H		1033
5520	41	50		MCW	CODE-3,*&8	L	7	0936	M S83 950		1033
5521	41	51		BCE	RUBAD,@TWEDGK@,0	L	8	0943	B /78 S98 0		1033
5522	41	52		CHAIN	5	L				MACRO	
5523				BCE		L	1	0951	B	GEN	1033
5524				BCE		L	1	0952	B	GEN	1034
5525				BCE		L	1	0953	B	GEN	1034
5526				BCE		L	1	0954	B	GEN	1034
5527				BCE		L	1	0955	B	GEN	1034
5528	41	53	SKIP	C	000&X1	L	4	0956	C 0!0		1034
5529	41	54		SAR	X1	L	4	0960	Q 089		1034
5530	41	55		B	START	L	4	0964	B 898		1034
5531	41	56	WORRY	MCW	CGBTM,X3	L	7	0968	M S82 099		1035
5532	41	57	CKEXT	C	000&X1,X3	L	7	0975	C 0!0 099		1035
5533	41	58		BE	THRU	L	5	0982	B !45 S		1035
5534	41	59		MN	000&X3	L	4	0987	D 0?0		1035
5535	41	60		MN		L	1	0991	D		1035
5536	41	61		MN		L	1	0992	D		1035
5537	41	62		SAR	X3	L	4	0993	Q 099		1035
5538	41	63		SBR	X2	L	4	0997	H 094		1036
5539	41	64	CHAIN	BWZ	ADD1,001&X2,1	L	8	1001	V /67 0!1 1		1036
5540	41	65		BWZ	CKEXT,002&X2,2	L	8	1009	V 975 0!2 2		1036
5541	41	66		MCW	003&X2,X2	L	7	1017	M 0!3 094		1036
5542	41	67		MZ	@ @,X2-1	L	7	1024	Y S99 093		1036
					BLANK						



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5543	41	68		MN	000&X2	L	4	1031	D 0!0		1036
5544	41	69		MN		L	1	1035	D		1036
5545	41	70		MN		L	1	1036	D		1037
5546	41	71		SAR	X2	L	4	1037	Q 094		1037
5547	41	72		B	CHAIN	L	4	1041	B  01		1037
5548	41	73	THRU	MCW	X3,CGBTM	L	7	1045	M 099 S82		1037
5549	41	74	DUN	BCE	SKIP,COUNT, BLANK	L	8	1052	B 956 S92		1037
5550	41	75		BWZ	*&5, CODE, 2	L	8	1060	V  72 S86 2		1037
5551	41	76		B	ZONE	L	4	1068	B  80		1037
5552	41	77		BWZ	PRINT, CODE-2, 2	L	8	1072	V  94 S84 2		1038
5553	41	78	ZONE	MCW	CODE, X3	L	7	1080	M S86 099		1038
5554	41	79		MCW	000&X3, CODE	L	7	1087	M 0?0 S86		1038
5555	41	80	PRINT	CS	299	L	4	1094	/ 299		1038
5556	41	81		SW	FAILSW	L	4	1098	, 184		1038
5557	41	82		MCW	@ERROR 21 -@, 210	L	7	1102	M T09 210		1038
5558	41	83		MCW	@UNDEFINED STATEMENT NUMBERS, STATEMENT@, 253	L	7	1109	M T47 253		1039
5559	41	84		MN	CODE, 257	L	7	1116	D S86 257		1039
5560	41	85		MN		L	1	1123	D		1039
5561	41	86		MN		L	1	1124	D		1039
5562	41	87		MCS	COUNT, 214	L	7	1125	Z S92 214		1039
5563	41	88		C	COUNT, @001@	L	7	1132	C S92 T50		1039
5564	41	89		BU	*&8	L	5	1139	B /51 /		1039
5565	41	90		MCW	@, @, 243	L	7	1144	M T52 243		1040
5566	41	91		W		L	1	1151	2		1040
5567	41	92		FORMS		L				MACRO	
5568				BCV	*&5	L	5	1152	B /61 @	GEN	1040
5569				B	*&3	L	4	1157	B /63	GEN	1040
5570				CC	1	L	2	1161	F 1	GEN	1040
5571	41	93		B	SKIP	L	4	1163	B 956		1040
5572	41	94	ADD1	A	@1@, COUNT	L	7	1167	A T53 S92		1040
5573	41	95		B	CKEXT	L	4	1174	B 975		1041
5574	41	96	RUBAD	BWZ	DUN, 000&X1, 1	L	8	1178	V  52 0 0 1		1041
5575	41	97		BCE	DUN, 000&X1, ,	L	8	1186	B  52 0 0 ,		1041
5576	41	98		MCW	000&X1, X3	L	7	1194	M 0 0 099		1041
5577	41	99		SAR	X1	L	4	1201	Q 089		1041
5578	42	00		MN	000&X3	L	4	1205	D 0?0		1041
5579	42	01		MN		L	1	1209	D		1041
5580	42	02		SAR	X3	L	4	1210	Q 099		1042
5581	42	03		BWZ	PLUS1, 000&X3, 1	L	8	1214	V S26 0?0 1		1042
5582	42	04		B	RUBAD	L	4	1222	B /78		1042
5583	42	05	PLUS1	A	@1@, COUNT	L	7	1226	A T53 S92		1042
5584	42	06		B	RUBAD	L	4	1233	B /78		1042
5585	42	07	OUT	MCW	HEX1, X1	L	7	1237	M S79 089		1042
5586	42	08		MCW	HEX3, X3	L	7	1244	M S76 099		1043
5587	42	09		FENDX	E, , , , , SYS5, I/O ONE	L				MACRO	
5588				BSS	333, E	L	5	1251	B 333 E	GEN	1043
5589				SBR	TCLEAR, SYS5	L	7	1256	H 710 T61	GEN	1043
5590				LCA	@I/O ONE@, 110	L	7	1263	L T60 110	GEN	1043
5591				B	MONTER	L	4	1270	B 700	GEN	1043
5592	42	10		LTORG	*	L			1274		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			HEX3	L DCW	#03	L	3	1276		AREA	1043
			HEX1	L DCW	#03	L	3	1279		AREA	1043
			CGBTML	DCW	#03	L	3	1282		AREA	1044
			CODE	L DCW	#04	L	4	1286		AREA	1044
				DCW	@ @	L	3	1289		LIT	1044
			COUNTL	DCW	#03	L	3	1292		AREA	1044
				DCW	@TWEDGK@	L	6	1298		LIT	1044
				DCW	@ @	L	1	1299		LIT	1044
				DCW	@ERROR 21 -@	L	10	1309		LIT	1044
				DCW	@UNDEFINED STATEMENT NUMBERS, STATEMENT@	L	38	1347		LIT	1045
				DCW	@001@	L	3	1350		LIT	1046
				DCW	@, @	L	2	1352		LIT	1046
				DCW	@1@	L	1	1353		LIT	1046
				DCW	@I/O ONE@	L	7	1360		LIT	1046
5593	42	11	SYS5	DCW	@}@	L	1	1361		GMARK	1046
5594	42	12		XFR	INITL	L			B 838		1047

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5595	42	13		JOB	1401 FORTRAN INPUT/OUTPUT PHASE ONE	L					
5596	42	14		FBEGN	I/O ONE,X1,,X2,R,X3,,9	L				MACRO	
5597				SFX	9	9				GEN	
5598			110	DCW	@I/O ONE@	9	7	0110		GEN	1050
5599			X1	EQU	089	9		0089		GEN	
5600			X2	EQU	094	9		0094		GEN	
5601			094	DCW	000	9	3	0094		GEN	1051
5602			096	DC	00	9	2	0096		GEN	1051
5603			X3	EQU	099	9		0099		GEN	
5604	42	15		ORG	XBEGIN	9			0838		
5605	42	16	BEGIN	SW	GM1	9	4	0838	, W27		1052
5606	42	17	START	BCE	OUT2,0&X1,	9	8	0842	B 886 0 0		1052
5607	42	18		LCA	0&X1, CODE#5	9	7	0850	L 0 0 W49		1052
5608	42	19		CW	XTPSW	9	4	0857	) X57		1052
5609	42	20		SW	CODE-3	9	4	0861	, W46		1052
5610	42	21		MCW	CODE-3,*&8	9	7	0865	M W46 879		1052
5611	42	22		BCE	IOTYP,@1356LPU@,0	9	8	0872	B  12 W56 0		1053
5612	42	23		CHAIN	6	9				MACRO	
5613				BCE		9	1	0880	B	GEN	1053
5614				BCE		9	1	0881	B	GEN	1053
5615				BCE		9	1	0882	B	GEN	1053
5616				BCE		9	1	0883	B	GEN	1053
5617				BCE		9	1	0884	B	GEN	1053
5618				BCE		9	1	0885	B	GEN	1053
5619	42	24	OUT2	SBR	X1,1&X1	9	7	0886	H 089 0 1		1054
5620	42	25		MZ	X3,ALL9	9	7	0893	Y 099 W16		1054
5621	42	26		MZ		9	1	0900	Y		1054
5622	42	27		MCW		9	1	0901	M		1054
5623	42	28		MZ	X1,ALL91	9	7	0902	Y 089 W19		1054
5624	42	29		MZ		9	1	0909	Y		1054
5625	42	30		MCW		9	1	0910	M		1054
5626	42	31		C	ALL9,ALL91	9	7	0911	C W16 W19		1055
5627	42	32		BE	SNGL	9	5	0918	B 943 S		1055
5628	42	33	CLR	CS	0&X3	9	4	0923	/ 0?0		1055
5629	42	34		SBR	CLR&3	9	4	0927	H 926		1055
5630	42	35		C	CLR&3,ALL91	9	7	0931	C 926 W19		1055
5631	42	36		BU	CLR	9	5	0938	B 923 /		1055
5632	42	37	SNGL	MCW	ALL91,X2	9	7	0943	M W19 094		1055
5633	42	38	BACK3	C	X2,X1	9	7	0950	C 094 089		1056
5634	42	39		BE	OUT3	9	5	0957	B 981 S		1056
5635	42	40		LCA	BLANK,0&X2	9	7	0962	L X11 0!0		1056
5636	42	41		CW	0&X2	9	4	0969	) 0!0		1056
5637	42	42		SAR	X2	9	4	0973	Q 094		1056
5638	42	43		B	BACK3	9	4	0977	B 950		1056
5639	42	44	OUT3	MN	0&X1	9	4	0981	D 0 0		1056
5640	42	45		SAR	X1	9	4	0985	Q 089		1057
5641	42	46		FENDX	C,GM1,,,,,SYS1,ARITH ONE	9				MACRO	
5642				BSS	333,C	9	5	0989	B 333 C	GEN	1057
5643				SBR	TCLEAR,SYS1	9	7	0994	H 710 X58	GEN	1057
5644				LCA	@ARITH ONE@,110	9	7	1001	L W65 110	GEN	1057

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5645				B	MONTER	9	4	1008	B 700	GEN	1057
5646	42	47	IOTYP	SW	CODE-2	9	4	1012	, W47		1057
5647	42	48		MCW	@<@, 2&X1	9	7	1016	M W66 0 2		1057
5648	42	49		SBR	KLOBR&6, 2&X1	9	7	1023	H T55 0 2		1058
5649	42	50		C	0&X1	9	4	1030	C 0 0		1058
5650	42	51		SAR	X1	9	4	1034	Q 089		1058
5651	42	52		LCA	CODE, 0&X3	9	7	1038	L W49 0?0		1058
5652	42	53		LCA	GM1	9	4	1045	L W27		1058
5653	42	54		SBR	X3	9	4	1049	H 099		1058
5654	42	55		CW	2&X3	9	4	1053	) 0?2		1058
5655	42	56		BWZ	NOFMT, CODE-1, B	9	8	1057	V U39 W48 B		1059
5656	42	57		FBCEQ	DOLST, CODE-3, 1, 3	9				MACRO	
5657				BCE	DOLST, CODE-3, 1	9	8	1065	B /16 W46 1	GEN	1059
5658				BCE	DOLST, CODE-3, 3	9	8	1073	B /16 W46 3	GEN	1059
5659	42	58		FBCEQ	DOSPC, CODE-3, L, P, U	9				MACRO	
5660				BCE	DOSPC, CODE-3, L	9	8	1081	B V32 W46 L	GEN	1059
5661				BCE	DOSPC, CODE-3, P	9	8	1089	B V32 W46 P	GEN	1060
5662				BCE	DOSPC, CODE-3, U	9	8	1097	B V32 W46 U	GEN	1060
5663	42	59		MCW	0&X1, SPEC	9	7	1105	M 0 0 W44		1060
5664	42	60		SAR	X1	9	4	1112	Q 089		1060
5665	42	61	DOLST	MCW	0&X1, TUNO	9	7	1116	M 0 0 W38		1060
5666	42	62		SAR	X1	9	4	1123	Q 089		1060
5667	42	63		MCW	0&X1, TUNO-3	9	7	1127	M 0 0 W35		1061
5668	42	64		BCE	ACTL, TUNO-4, }	9	8	1134	B T91 W34 }	GMARK	1061
5669	42	65		BCE	ACTL, TUNO-1, }	9	8	1142	B T91 W37 }	GMARK	1061
5670	42	66		MN	@1@, TAPE	9	7	1150	D W67 X10		1061
5671	42	67		BCE	OTHR2, TUNO-3, }	9	8	1157	B U28 W35 }	GMARK	1061
5672	42	68	XXX	MCW	0&X1, LIST	9	7	1165	M 0 0 W41		1062
5673	42	69		SAR	X1	9	4	1172	Q 089		1062
5674	42	70	RETRN	LCA	LIST, 0&X3	9	7	1176	L W41 0?0		1062
5675	42	71		SBR	X3	9	4	1183	H 099		1062
5676	42	72		LCA	SPEC, 0&X3	9	7	1187	L W44 0?0		1062
5677	42	73		SBR	X3	9	4	1194	H 099		1062
5678	42	74		LCA	TAPE, 0&X3	9	7	1198	L X10 0?0		1063
5679	42	75		LCA	BRANCH	9	4	1205	L W31		1063
5680	42	76		SBR	X3	9	4	1209	H 099		1063
5681	42	77		FBCEQ	TLGM, CODE-3, L, P, U, 1	9				MACRO	
5682				BCE	TLGM, CODE-3, L	9	8	1213	B S82 W46 L	GEN	1063
5683				BCE	TLGM, CODE-3, P	9	8	1221	B S82 W46 P	GEN	1063
5684				BCE	TLGM, CODE-3, U	9	8	1229	B S82 W46 U	GEN	1063
5685				BCE	TLGM, CODE-3, 1	9	8	1237	B S82 W46 1	GEN	1064
5686	42	78		MZ	@S@, 5&X3	9	7	1245	Y W68 0?5		1064
5687	42	79		BCE	TLGM, CODE-3, 3	9	8	1252	B S82 W46 3		1064
5688	42	80		MZ	@K@, 5&X3	9	7	1260	Y W69 0?5		1064
5689	42	81		BCE	TLGM, CODE-3, 5	9	8	1267	B S82 W46 5		1064
5690	42	82		MZ	@B@, 5&X3	9	7	1275	Y W70 0?5		1065
5691	42	83	TLGM	BW	LGM, XTPSW	9	8	1282	V T30 X57 1		1065
5692	42	84		BWZ	LGM, TUNO-1, 2	9	8	1290	V T30 W37 2		1065
5693	42	85		MCW	TUNO, MASK1-3	9	7	1298	M W38 W23		1065
5694	42	86		MZ	BLANK, MASK1-4	9	7	1305	Y X11 W22		1065

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5695	42	87		LCA	MASK1,0&X3	9	7	1312	L W26 0?0		1066
5696	42	88		SBR	X3	9	4	1319	H 099		1066
5697	42	89		MCW	BLNK#3,TUNO	9	7	1323	M W73 W38		1066
5698	42	90	LGM	LCA	GM1,0&X3	9	7	1330	L W27 0?0		1066
5699	42	91		SBR	X3	9	4	1337	H 099		1066
5700	42	92		C	0&X1	9	4	1341	C 0 0		1066
5701	42	93		SAR	X1	9	4	1345	Q 089		1066
5702	42	94	KLOBR	BCE	START,0,<	9	8	1349	B 842 000 <		1067
5703	42	95		FQUIT		9				MACRO	
5704				CS	332	9	4	1357	/ 332	GEN	1067
5705				CS		9	1	1361	/	GEN	1067
5706				CC	1	9	2	1362	F 1	GEN	1067
5707				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	9	7	1364	M X09 270	GEN	1067
5708				W		9	1	1371	2	GEN	1067
5709				CC	1	9	2	1372	F 1	GEN	1067
5710				BCE	*&6,MONTOR,1	9	8	1374	B T87 769 1	GEN	1068
5711				RWD	1	9	5	1382	U %U1 R	GEN	1068
5712				H	*-3	9	4	1387	. T87	GEN	1068
5713	42	96	ACTL	MN	TUNO,TAPE#1	9	7	1391	D W38 X10		1068
5714	42	97		SW	XTPSW	9	4	1398	, X57		1068
5715	42	98		BCE	OTHER,TUNO-1,}	9	8	1402	B U21 W37 }	GMARK	1068
5716	42	99		SBR	X1,2&X1	9	7	1410	H 089 0 2		1069
5717	43	00		B	XXX	9	4	1417	B /65		1069
5718	43	01	OTHER	SBR	X1,1&X1	9	7	1421	H 089 0 1		1069
5719	43	02	OTHR2	MCW	PERIOD,LIST	9	7	1428	M 154 W41		1069
5720	43	03		B	RETRN	9	4	1435	B /76		1069
5721	43	04	NOFMT	MZ	BLANK#1,3&X3	9	7	1439	Y X11 0?3		1069
5722	43	05		MCW	4&X3,ADR#3	9	7	1446	M 0?4 X14		1070
5723	43	06		BWZ	*&5,ADR,2	9	8	1453	V U65 X14 2		1070
5724	43	07		B	GTADR	9	4	1461	B U73		1070
5725	43	08		BWZ	ERR,ADR-2,2	9	8	1465	V U87 X12 2		1070
5726	43	09	GTADR	MCW	ADR,*&4	9	7	1473	M X14 U83		1070
5727	43	10		MCW	0,ADR	9	7	1480	M 000 X14		1071
5728	43	11	ERR	FTMSG	22,UNDEFINED FORMAT,ADR,18	9				MACRO	
5729			ERR	CS	332	9	4	1487	/ 332	GEN	1071
5730				CS		9	1	1491	/	GEN	1071
5731				SW	FAILSW	9	4	1492	, 184	GEN	1071
5732				MN	ADR,224&18	9	7	1496	D X14 242	GEN	1071
5733				MN		9	1	1503	D	GEN	1071
5734				MN		9	1	1504	D	GEN	1071
5735				MCW	@ERROR 22 - UNDEFINED FORMAT, STATEMENT @	9	4	1505	M X53	GEN	1072
5736				W		9	1	1509	2	GEN	1072
5737				BCV	*&5	9	5	1510	B V19 @	GEN	1072
5738				B	*&3	9	4	1515	B V21	GEN	1072
5739				CC	1	9	2	1519	F 1	GEN	1072
5740	43	12		MZ	*-4,CODE-1	9	7	1521	Y V23 W48		1072
5741	43	13		B	DOLST	9	4	1528	B /16		1072
5742	43	14	DOSPC	MCW	0&X1,SPEC	9	7	1532	M 0 0 W44		1073
5743	43	15		SAR	X1	9	4	1539	Q 089		1073
5744	43	16		MCW	PERIOD,LIST	9	7	1543	M 154 W41		1073

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5745	43	17		BCE	HERE,0&X1,}	9	8	1550	B V69 0 0 }	GMARK	1073
5746	43	18		MCW	0&X1,LIST	9	7	1558	M 0 0 W41		1073
5747	43	19		SAR	X1	9	4	1565	Q 089		1073
5748	43	20	HERE	MCW	@&@,TAPE	9	7	1569	M X54 X10		1074
5749	43	21		BCE	SETP,CODE-3,L	9	8	1576	B W06 W46 L		1074
5750	43	22		MCW	@-@,TAPE	9	7	1584	M X55 X10		1074
5751	43	23		BCE	SETP,CODE-3,U	9	8	1591	B W06 W46 U		1074
5752	43	24		MCW	@*@,TAPE	9	7	1599	M X56 X10		1074
5753	43	25	SETP	SW	XTPSW#1	9	4	1606	, X57		1075
5754	43	26		B	RETRN	9	4	1610	B /76		1075
5755	43	27	ALL9	DCW	999	9	3	1616			1075
5756	43	28	ALL91	DCW	999	9	3	1619			1075
5757	43	29	MASK1	DCW	@DXXX0?5@	9	7	1626			1075
5758	43	30	GM1	DC	@}@	9	1	1627		GMARK	1075
5759	43	31	BRANCH	DCW	@BW97@	9	4	1631			1075
5760	43	32		DCW	#4	9	4	1635			1075
5761	43	33	TUNO	DCW	#3	9	3	1638			1076
5762	43	34	LIST	DCW	000	9	3	1641			1076
5763	43	35	SPEC	DCW	000	9	3	1644			1076
5764	43	36		LTORG	*	9			1645		
			CODE 9	DCW	#05	9	5	1649		AREA	1076
				DCW	@1356LPU@	9	7	1656		LIT	1076
				DCW	@ARITH ONE@	9	9	1665		LIT	1076
				DCW	@<@	9	1	1666		LIT	1076
				DCW	@1@	9	1	1667		LIT	1077
				DCW	@S@	9	1	1668		LIT	1077
				DCW	@K@	9	1	1669		LIT	1077
				DCW	@B@	9	1	1670		LIT	1077
			BLNK 9	DCW	#03	9	3	1673		AREA	1077
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	9	36	1709		LIT	1078
			TAPE 9	DCW	#01	9	1	1710		AREA	1078
			BLANK9	DCW	#01	9	1	1711		AREA	1078
			ADR 9	DCW	#03	9	3	1714		AREA	1079
				DCW	@ERROR 22 - UNDEFINED FORMAT, STATEMENT @	9	39	1753		LIT	1080
				DCW	@&@	9	1	1754		LIT	1081
				DCW	@-@	9	1	1755		LIT	1081
				DCW	@*@	9	1	1756		LIT	1081
			XTPSW9	DCW	#01	9	1	1757		AREA	1081
5765	43	37	SYS1	DCW	@}@	9	1	1758		GMARK	1081
5766	43	38		XFR	BEGIN	9			B 838		1082

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5767	43	39		JOB	ARITH PHASE ONE	9					
5768	43	40		FBEGN	ARITH 1, X1,,X2,R,X3,,< 12-6-8 SUFFIX	9				MACRO	
5769				SFX	<	<				GEN	
5770		110		DCW	@ARITH 1@	<	7	0110		GEN	1085
5771			X1	EQU	089	<		0089		GEN	
5772			X2	EQU	094	<		0094		GEN	
5773		094		DCW	000	<	3	0094		GEN	1086
5774		096		DC	00	<	2	0096		GEN	1086
5775			X3	EQU	099	<		0099		GEN	
5776	43	41		ORG	XBEGIN	<			0838		
5777	43	42	*								
5778	43	43	*		ARITH PHASE ONE ERROR CHECKING ALGORITHM						
5779	43	44	*								
5780	43	45	*		PREVIOUS CHARACTER						
5781	43	46	*								
5782	43	47	*		OPND &*/. - GM F% # % ) NEG						
5783	43	48	*								
5784	43	49	*		& OK DD DD LS KL KL KL OK DD						
5785	43	50	*	C	- OK DD DD LS NG NG NG OK DD						
5786	43	51	*	C H	*/ OK DD DD LS SY SY SY OK DD						
5787	43	52	*	U A	# OK A2 A2 LS A2 A2 A2 A2 A2						
5788	43	53	*	R R	% SY OK OK LS OK OK OK SY OK						
5789	43	54	*	R A	) OK SY SY LS A2 SY A2 OK SY						
5790	43	55	*	E C	GM OK SY SY LS A2 SY SY OK SY						
5791	43	56	*	N T	. OK DD DD LS SY SY SY OK DD						
5792	43	57	*	T E	NEG -- -- LS OK OK OK -- DD						
5793	43	58	*	R	F% SY OK OK LS OK OK OK SY OK						
5794	43	59	*		OPRND -- OK OK LS OK OK OK SY OK						
5795	43	60	*								
5796	43	61	*	OK-	VALID						
5797	43	62	*	DD-	DOUBLE OPERATORS						
5798	43	63	*	SY-	SYNTAX ERROR						
5799	43	64	*	A2-	ERROR NOTED IN ARITH PHASE TWO						
5800	43	65	*	LS-	LEFT SIDE INVALID						
5801	43	66	*	NG-	GENERATE NEGATE FUNCTION						
5802	43	67	*	---	SYNTACTICALLY INADMISSIBLE						
5803	43	68	*	KL-	DELETE UNARY PLUS OPERATOR						
5804	43	69	*								
5805	43	70	*								
5806	43	71	START	SBR	NOMO,2&X3	<	7	0838	H M53 0?2		1087
5807	43	72		SW	GM1	<	4	0845	, J60		1087
5808	43	73		MCW	0&X1, CODE	<	7	0849	M 0 0 M47		1087
5809	43	74		FBCEQ	DOCOD, CODE-3, R, E	<				MACRO	
5810				BCE	DOCOD, CODE-3, R	<	8	0856	B 943 M44 R	GEN	1087
5811				BCE	DOCOD, CODE-3, E	<	8	0864	B 943 M44 E	GEN	1087
5812	43	75		MCW	@.,X2	<	7	0872	M M43 094		1088
5813	43	76		B	FENDX	<	4	0879	B 920		1088
5814	43	77	NUSTM	MCW	0&X1, CODE#4	<	7	0883	M 0 0 M47		1088
5815	43	78		SBR	KILL#3, 0&X3	<	7	0890	H M50 0?0		1088
5816	43	79		FBCEQ	DOCOD, CODE-3, R, E	<				MACRO	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5817				BCE	DOCOD, CODE-3, R	<	8	0897	B 943 M44 R	GEN	1088
5818				BCE	DOCOD, CODE-3, E	<	8	0905	B 943 M44 E	GEN	1089
5819	43	80		MCW	NOMO#3,X2	<	7	0913	M M53 094		1089
5820	43	81	FENDX	FENDX	C,,,,,SYSGM,ARITH TWO	<				MACRO	
5821			FENDX	BSS	333,C	<	5	0920	B 333 C	GEN	1089
5822				SBR	TCLEAR,SYSGM	<	7	0925	H 710 P68	GEN	1089
5823				LCA	@ARITH TWO@,110	<	7	0932	L M62 110	GEN	1089
5824				B	MONTER	<	4	0939	B 700	GEN	1089
5825	43	82	DOCOD	MVDWN	X1,X3	<				MACRO	
5826			DOCOD	LCA	0&X1,0&X3	<	7	0943	L 0 0 0?0	GEN	1090
5827				SAR	X1	<	4	0950	Q 089	GEN	1090
5828				C	0&X3	<	4	0954	C 0?0	GEN	1090
5829				SAR	X3	<	4	0958	Q 099	GEN	1090
5830	43	83		BWZ	*&5, CODE,2	<	8	0962	V 974 M47 2		1090
5831	43	84		B	INDIR	<	4	0970	B 982		1090
5832	43	85		BWZ	MAIN,CODE-2,2	<	8	0974	V 998 M45 2		1090
5833	43	86	INDIR	MCW	CODE,X2	<	7	0982	M M47 094		1091
5834	43	87		MN	0&X2,CODE	<	7	0989	D 0!0 M47		1091
5835	43	88		MN		<	1	0996	D		1091
5836	43	89		MN		<	1	0997	D		1091
5837	43	90	MAIN	C	0&X1	<	4	0998	C 0 0		1091
5838	43	91		SAR	NEXT#3	<	4	1002	Q M65		1091
5839	43	92		BCE	ARTYP,CODE-3,R	<	8	1006	B  85 M44 R		1091
5840	43	93		C	0&X1,BLK10#10	<	7	1014	C 0 0 M75		1092
5841	43	94		SAR	X1	<	4	1021	Q 089		1092
5842	43	95		SW	1&X1	<	4	1025	, 0 1		1092
5843	43	96		LCA	10&X1,0&X3	<	7	1029	L 0/0 0?0		1092
5844	43	97		SAR	X1	<	4	1036	Q 089		1092
5845	43	98		C	0&X3	<	4	1040	C 0?0		1092
5846	43	99		SAR	X3	<	4	1044	Q 099		1092
5847	44	00		CW	1&X1,1&X3	<	7	1048	) 0 1 0?1		1093
5848	44	01		LCA	GM1	<	4	1055	L J60		1093
5849	44	02		LCA	@#<99@	<	4	1059	L M79		1093
5850	44	03		SBR	X3	<	4	1063	H 099		1093
5851	44	04		CW	1&X3,5&X3	<	7	1067	) 0?1 0?5		1093
5852	44	05		SBR	LAST,0&X1	<	7	1074	H M82 0 0		1093
5853	44	06		B	LOOP3	<	4	1081	B /43		1093
5854	44	07	ARTYP	SBR	X2,1&X1	<	7	1085	H 094 0 1		1094
5855	44	08		BCE	CDINT,0&X1,#	<	8	1092	B !01 0 0 #		1094
5856	44	09		SBR	LAST#3,0&X1	<	7	1100	H M82 0 0		1094
5857	44	10	EQSCN	BCE	GOTEQ,0&X1,#	<	8	1107	B /31 0 0 #		1094
5858	44	11		BCE	CDINT,0&X1,}	<	8	1115	B !01 0 0 }	GMARK	1094
5859	44	12		SBR	X1	<	4	1123	H 089		1095
5860	44	13		B	EQSCN	<	4	1127	B /07		1095
5861	44	14	GOTEQ	B	MESUR	<	4	1131	B !53		1095
5862	44	15	LOOP1	MN	0&X1	<	4	1135	D 0 0		1095
5863	44	16		SAR	X1	<	4	1139	Q 089		1095
5864	44	17	LOOP3	SBR	X2,1&X1	<	7	1143	H 094 0 1		1095
5865	44	18		SBR	FUNBX#3	<	4	1150	H M85		1095
5866	44	19	LOOP2	MN	0&X1,TST1&7	<	7	1154	D 0 0 /79		1096

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G-M



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5867	44	20		MZ	0&X1,TST1&7	<	7	1161	Y 0 0 /79		1096
5868	44	21		SAR	X1	<	4	1168	Q 089		1096
5869	44	22	TST1	BCE	GOTOP,@&-@*#% ) }@,0	<	8	1172	B /91 M93 0		1096
5870	44	23		CHAIN	7	<				MACRO	
5871				BCE		<	1	1180	B	GEN	1096
5872				BCE		<	1	1181	B	GEN	1096
5873				BCE		<	1	1182	B	GEN	1096
5874				BCE		<	1	1183	B	GEN	1097
5875				BCE		<	1	1184	B	GEN	1097
5876				BCE		<	1	1185	B	GEN	1097
5877				BCE		<	1	1186	B	GEN	1097
5878	44	24		B	LOOP2	<	4	1187	B /54		1097
5879	44	25	GOTOP	SBR	X1,1&X1	<	7	1191	H 089 0 1		1097
5880	44	26		BCE	CKNG,0&X1,-	<	8	1198	B V98 0 0 -		1097
5881	44	27		BCE	CKFUN,0&X1,%	<	8	1206	B W41 0 0 %		1098
5882	44	28		BCE	CKXP,0&X1,*	<	8	1214	B U31 0 0 *		1098
5883	44	29		BCE	PLUS,0&X1,&	<	8	1222	B V44 0 0 &		1098
5884	44	30		BCE	DIV,0&X1,@	<	8	1230	B U46 0 0 @		1098
5885	44	31		BCE	LOOP1,0&X1,#	<	8	1238	B /35 0 0 #		1099
5886	44	32		BCE	CLOSE,0&X1,)	<	8	1246	B T39 0 0 )		1099
5887	44	33		MN	1&X1,CKGM&7	<	7	1254	D 0 1 S75		1099
5888	44	34		MZ	1&X1,CKGM&7	<	7	1261	Y 0 1 S75		1099
5889	44	35	CKGM	BCE	SYNER,@&-@*#. #,@,0	<	8	1268	B J22 N00 0		1099
5890	44	36		CHAIN	6	<				MACRO	
5891				BCE		<	1	1276	B	GEN	1099
5892				BCE		<	1	1277	B	GEN	1100
5893				BCE		<	1	1278	B	GEN	1100
5894				BCE		<	1	1279	B	GEN	1100
5895				BCE		<	1	1280	B	GEN	1100
5896				BCE		<	1	1281	B	GEN	1100
5897	44	37		BCE	EOSTM,1&X1,	<	8	1282	B T10 0 1		1100
5898	44	38		BCE	EOSTM,1&X1,%	<	8	1290	B T10 0 1 %		1100
5899	44	39		BCE	EOSTM,1&X1,)	<	8	1298	B T10 0 1 )		1101
5900	44	40		B	MESUR	<	4	1306	B !53		1101
5901	44	41	EOSTM	MCW	LAST,X2	<	7	1310	M M82 094		1101
5902	44	42		LCA	0&X2,0&X3	<	7	1317	L 0!0 0?0		1101
5903	44	43		SBR	X3	<	4	1324	H 099		1101
5904	44	44		MCW	NEXT,X1	<	7	1328	M M65 089		1101
5905	44	45		B	NUSTM	<	4	1335	B 883		1102
5906	44	46	CLOSE	MLC	0&X1,BOX#2	<	7	1339	M 0 0 N02		1102
5907	44	47		MLC	BOX-1,*&8	<	7	1346	M N01 T60		1102
5908	44	48		BCE	CLZOK,@&*@- } )@,0	<	8	1353	B T78 N08 0		1102
5909	44	49		CHAIN	5	<				MACRO	
5910				BCE		<	1	1361	B	GEN	1102
5911				BCE		<	1	1362	B	GEN	1102
5912				BCE		<	1	1363	B	GEN	1102
5913				BCE		<	1	1364	B	GEN	1103
5914				BCE		<	1	1365	B	GEN	1103
5915	44	50		BCE	CLZOK,BOX-1,#	<	8	1366	B T78 N01 #		1103
5916	44	51		B	SYNER	<	4	1374	B J22		1103

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5917	44	52	CLZOK	MN	1&X1,CLSCK&7	<	7	1378	D 0 1 T99		1103
5918	44	53		MZ	1&X1,CLSCK&7	<	7	1385	Y 0 1 T99		1103
5919	44	54	CLSCK	BCE	SYNER,@&-*. @ %, @, 0	<	8	1392	B J22 N16 0		1103
5920	44	55		CHAIN	7	<				MACRO	
5921				BCE		<	1	1400	B	GEN	1104
5922				BCE		<	1	1401	B	GEN	1104
5923				BCE		<	1	1402	B	GEN	1104
5924				BCE		<	1	1403	B	GEN	1104
5925				BCE		<	1	1404	B	GEN	1104
5926				BCE		<	1	1405	B	GEN	1104
5927				BCE		<	1	1406	B	GEN	1104
5928	44	56		BCE	LOOP1,1&X1,#	<	8	1407	B /35 0 1 #		1105
5929	44	57		BCE	LOOP1,1&X1,)	<	8	1415	B /35 0 1 )		1105
5930	44	58		B	MESUR	<	4	1423	B !53		1105
5931	44	59		B	LOOP1	<	4	1427	B /35		1105
5932	44	60	CKXP	MCW	0&X1,BOX2#2	<	7	1431	M 0 0 N18		1105
5933	44	61		BCE	ISXP,BOX2-1,*	<	8	1438	B V13 N17 *		1105
5934	44	62	DIV	FBCEQ	SYNER,1&X1,#,%	<				MACRO	
5935			DIV	BCE	SYNER, 1&X1, #	<	8	1446	B J22 0 1 #	GEN	1106
5936				BCE	SYNER, 1&X1, %	<	8	1454	B J22 0 1 %	GEN	1106
5937	44	63		BCE	SYNER,1&X1,	<	8	1462	B J22 0 1		1106
5938	44	64	DIV2	MN	1&X1,DIVCK&7	<	7	1470	D 0 1 U91		1106
5939	44	65		MZ	1&X1,DIVCK&7	<	7	1477	Y 0 1 U91		1106
5940	44	66	DIVCK	BCE	DBLOP,@&-@*., @, 0	<	8	1484	B J61 N24 0		1107
5941	44	67		CHAIN	5	<				MACRO	
5942				BCE		<	1	1492	B	GEN	1107
5943				BCE		<	1	1493	B	GEN	1107
5944				BCE		<	1	1494	B	GEN	1107
5945				BCE		<	1	1495	B	GEN	1107
5946				BCE		<	1	1496	B	GEN	1107
5947	44	68		BCE	LOOP1,1&X1,)	<	8	1497	B /35 0 1 )		1107
5948	44	69		B	MESUR	<	4	1505	B !53		1108
5949	44	70		B	LOOP1	<	4	1509	B /35		1108
5950	44	71	ISXP	MN	0&X1	<	4	1513	D 0 0		1108
5951	44	72		MN		<	1	1517	D		1108
5952	44	73		SAR	X1	<	4	1518	Q 089		1108
5953	44	74		MCW	@. @, 2&X1	<	7	1522	M M43 0 2		1108
5954	44	75		LCA	0&X1	<	4	1529	L 0 0		1108
5955	44	76		SBR	X1, 2&X1	<	7	1533	H 089 0 2		1109
5956	44	77		B	DIV	<	4	1540	B U46		1109
5957	44	78	PLUS	FBCEQ	SQUOZ,1&X1,#,%	<				MACRO	
5958			PLUS	BCE	SQUOZ, 1&X1, #	<	8	1544	B V72 0 1 #	GEN	1109
5959				BCE	SQUOZ, 1&X1, %	<	8	1552	B V72 0 1 %	GEN	1109
5960	44	79		BCE	SQUOZ,1&X1,	<	8	1560	B V72 0 1		1109
5961	44	80		B	DIV2	<	4	1568	B U70		1109
5962	44	81	SQUOZ	MN	0&X1	<	4	1572	D 0 0		1110
5963	44	82		SAR	X1	<	4	1576	Q 089		1110
5964	44	83		LCA	0&X1,1&X1	<	7	1580	L 0 0 0 1		1110
5965	44	84		SBR	X1,1&X1	<	7	1587	H 089 0 1		1110
5966	44	85		B	LOOP3	<	4	1594	B /43		1110

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
5967	44	86	CKNG	FBCEQ	NEGAT,1&X1,#,%	<				MACRO	
5968			CKNG	BCE	NEGAT, 1&X1, #	<	8	1598	B W26 0 1 #	GEN	1110
5969				BCE	NEGAT, 1&X1, %	<	8	1606	B W26 0 1 %	GEN	1111
5970	44	87		BCE	NEGAT,1&X1,	<	8	1614	B W26 0 1		1111
5971	44	88		B	DIV2	<	4	1622	B U70		1111
5972	44	89	NEGAT	MCW	@@,0&X1	<	7	1626	M N25 0 0		1111
5973	44	90		CW	XNEGTF	<	4	1633	) 123		1111
5974	44	91		B	LOOP1	<	4	1637	B /35		1111
5975	44	92	CKFUN	BCE	ISFUN,1&X1,F	<	8	1641	B W83 0 1 F		1112
5976	44	93		MN	1&X1,OPNCK&7	<	7	1649	D 0 1 W70		1112
5977	44	94		MZ	1&X1,OPNCK&7	<	7	1656	Y 0 1 W70		1112
5978	44	95	OPNCK	BCE	LOOP1,@&-*@ #%,. @,0	<	8	1663	B /35 N34 0		1112
5979	44	96		CHAIN	8	<				MACRO	
5980				BCE		<	1	1671	B	GEN	1112
5981				BCE		<	1	1672	B	GEN	1112
5982				BCE		<	1	1673	B	GEN	1112
5983				BCE		<	1	1674	B	GEN	1113
5984				BCE		<	1	1675	B	GEN	1113
5985				BCE		<	1	1676	B	GEN	1113
5986				BCE		<	1	1677	B	GEN	1113
5987				BCE		<	1	1678	B	GEN	1113
5988	44	97		B	SYNER	<	4	1679	B J22		1113
5989	44	98	ISFUN	MCW	X2,HEX2#3	<	7	1683	M 094 N37		1113
5990	44	99		MCW	FUNBX,X2	<	7	1690	M M85 094		1114
5991	45	00		MN	0&X2	<	4	1697	D 0!0		1114
5992	45	01		SAR	X2	<	4	1701	Q 094		1114
5993	45	02		SW	0&X1	<	4	1705	, 0 0		1114
5994	45	03		SBR	FUNBX,2&X1	<	7	1709	H M85 0 2		1114
5995	45	04		C	FUNBX,X2	<	7	1716	C M85 094		1114
5996	45	05		BE	SYNER	<	5	1723	B J22 S		1114
5997	45	06		SBR	FUNBX,3&X1	<	7	1728	H M85 0 3		1115
5998	45	07		C	FUNBX,X2	<	7	1735	C M85 094		1115
5999	45	08		BE	SYNER	<	5	1742	B J22 S		1115
6000	45	09		MCW	X3,HEX3#3	<	7	1747	M 099 N40		1115
6001	45	10		MCW	X1,HEX1#3	<	7	1754	M 089 N43		1115
6002	45	11		SBR	X1,XSINFU	<	7	1761	H 089 118		1116
6003	45	12		SBR	X3,FTBL1-1	<	7	1768	H 099 M41		1116
6004	45	13	FSCAN	BCE	NOFUN,0&X3,*	<	8	1775	B Y18 0?0 *		1116
6005	45	14		SBR	X3	<	4	1783	H 099		1116
6006	45	15		C	0&X3,0&X2	<	7	1787	C 0?0 0!0		1116
6007	45	16		BE	GOTFN	<	5	1794	B Y83 S		1116
6008	45	17		C	0&X3	<	4	1799	C 0?0		1117
6009	45	18		SAR	X3	<	4	1803	Q 099		1117
6010	45	19		SBR	X1,1&X1	<	7	1807	H 089 0 1		1117
6011	45	20		B	FSCAN	<	4	1814	B X75		1117
6012	45	21	NOFUN	FTMSG	29,UNDEFINED FUNCTION NAME,CODE,25	<				MACRO	
6013			NOFUN	CS	332	<	4	1818	/ 332	GEN	1117
6014				CS		<	1	1822	/	GEN	1117
6015				SW	FAILSW	<	4	1823	, 184	GEN	1117
6016				MN	CODE,224&25	<	7	1827	D M47 249	GEN	1118

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6017				MN		<	1	1834	D	GEN	1118
6018				MN		<	1	1835	D	GEN	1118
6019				MCW	@ERROR 29 - UNDEFINED FUNCTION NAME, STATEMENT @	<	4	1836	M N89	GEN	1118
6020				W		<	1	1840	2	GEN	1118
6021				BCV	*&5	<	5	1841	B Y50 @	GEN	1118
6022				B	*&3	<	4	1846	B Y52	GEN	1118
6023				CC	1	<	2	1850	F 1	GEN	1119
6024	45	22		B	ZONCH	<	4	1852	B !35		1119
6025	45	23	COMFN	CW	XCOMF1	<	4	1856	) 117		1119
6026	45	24		B	MOV	<	4	1860	B Z26		1119
6027	45	25	COSIN	CW	XSINFU	<	4	1864	) 118		1119
6028	45	26		B	COMFN	<	4	1868	B Y56		1119
6029	45	27	ABSVL	CW	XABSVL,XNEGTF	<	7	1872	) 122 123		1119
6030	45	28		B	MOV	<	4	1879	B Z26		1120
6031	45	29	GOTFN	SW	1&X3	<	4	1883	, 0?1		1120
6032	45	30		BCE	COSIN,1&X3,C	<	8	1887	B Y64 0?1 C		1120
6033	45	31		BCE	ABSVL,1&X3,A	<	8	1895	B Y72 0?1 A		1120
6034	45	32		CW	0&X1	<	4	1903	) 0 0		1120
6035	45	33		MCW	1&X3,*&8	<	7	1907	M 0?1 Z21		1120
6036	45	34		BCE	COMFN,@SGECT@,0	<	8	1914	B Y56 N94 0		1121
6037	45	35		CHAIN	4	<				MACRO	
6038				BCE		<	1	1922	B	GEN	1121
6039				BCE		<	1	1923	B	GEN	1121
6040				BCE		<	1	1924	B	GEN	1121
6041				BCE		<	1	1925	B	GEN	1121
6042	45	36	MOV	BCE	KEEPX,0&X2,X	<	8	1926	B Z89 0!0 X		1121
6043	45	37		MCW	1&X3,0&X2	<	7	1934	M 0?1 0!0		1121
6044	45	38		MCW	BLNK1#1	<	4	1941	M N95		1122
6045	45	39		SBR	X2	<	4	1945	H 094		1122
6046	45	40		MCW	HEX3,X3	<	7	1949	M N40 099		1122
6047	45	41		MCW	HEX1,X1	<	7	1956	M N43 089		1122
6048	45	42		CW	0&X1	<	4	1963	) 0 0		1122
6049	45	43		SAR	X1	<	4	1967	Q 089		1122
6050	45	44		LCA	0&X1,0&X2	<	7	1971	L 0 0 0!0		1122
6051	45	45		SBR	X1,0&X2	<	7	1978	H 089 0!0		1123
6052	45	46		B	LOOP3	<	4	1985	B /43		1123
6053	45	47	KEEPX	MN	0&X2	<	4	1989	D 0!0		1123
6054	45	48		SAR	X2	<	4	1993	Q 094		1123
6055	45	49		B	MOV&8	<	4	1997	B Z34		1123
6056	45	50	CDINT	FTMSG	23,CODING UNINTELLIGIBLE, CODE, 23	<				MACRO	
6057			CDINT	CS	332	<	4	2001	/ 332	GEN	1123
6058				CS		<	1	2005	/	GEN	1123
6059				SW	FAILSW	<	4	2006	, 184	GEN	1124
6060				MN	CODE,224&23	<	7	2010	D M47 247	GEN	1124
6061				MN		<	1	2017	D	GEN	1124
6062				MN		<	1	2018	D	GEN	1124
6063				MCW	@ERROR 23 - CODING UNINTELLIGIBLE, STATEMENT @	<	4	2019	M 039	GEN	1124
6064				W		<	1	2023	2	GEN	1124
6065				BCV	*&5	<	5	2024	B !33 @	GEN	1124
6066				B	*&3	<	4	2029	B !35	GEN	1125

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6067				CC	1	<	2	2033	F 1	GEN	1125
6068	45	51	ZONCH	MCW	KILL,X3	<	7	2035	M M50 099		1125
6069	45	52		MCW	NEXT,X1	<	7	2042	M M65 089		1125
6070	45	53		B	NUSTM	<	4	2049	B 883		1125
6071	45	54	MESUR	SBR	MESXT&3	<	4	2053	H !82		1125
6072	45	55		BCE	SUBSC,1&X1,\$	<	8	2057	B J99 0 1 \$		1125
6073	45	56		SBR	MESBX#3,4&X1	<	7	2065	H 042 0 4		1126
6074	45	57	MESCM	C	MESBX,X2	<	7	2072	C 042 094		1126
6075	45	58	MESXT	BE	0	<	5	2079	B 000 S		1126
6076	45	59		FTMSG	25,LEFT SIDE INVALID,CODE,19	<				MACRO	
6077				CS	332	<	4	2084	/ 332	GEN	1126
6078				CS		<	1	2088	/	GEN	1126
6079				SW	FAILSW	<	4	2089	, 184	GEN	1126
6080				MN	CODE,224&19	<	7	2093	D M47 243	GEN	1126
6081				MN		<	1	2100	D	GEN	1127
6082				MN		<	1	2101	D	GEN	1127
6083				MCW	@ERROR 25 - LEFT SIDE INVALID, STATEMENT @	<	4	2102	M 082	GEN	1127
6084				W		<	1	2106	2	GEN	1127
6085				BCV	*&5	<	5	2107	B J16 @	GEN	1127
6086				B	*&3	<	4	2112	B J18	GEN	1127
6087				CC	1	<	2	2116	F 1	GEN	1127
6088	45	60		B	ZONCH	<	4	2118	B !35		1128
6089	45	61	SYNER	FTMSG	27,ARITHMETIC SYNTAX ERROR,CODE,25	<				MACRO	
6090			SYNER	CS	332	<	4	2122	/ 332	GEN	1128
6091				CS		<	1	2126	/	GEN	1128
6092				SW	FAILSW	<	4	2127	, 184	GEN	1128
6093				MN	CODE,224&25	<	7	2131	D M47 249	GEN	1128
6094				MN		<	1	2138	D	GEN	1128
6095				MN		<	1	2139	D	GEN	1128
6096				MCW	@ERROR 27 - ARITHMETIC SYNTAX ERROR, STATEMENT @	<	4	2140	M P28	GEN	1129
6097				W		<	1	2144	2	GEN	1129
6098				BCV	*&5	<	5	2145	B J54 @	GEN	1129
6099				B	*&3	<	4	2150	B J56	GEN	1129
6100				CC	1	<	2	2154	F 1	GEN	1129
6101	45	62		B	ZONCH	<	4	2156	B !35		1129
6102	45	63	GM1	DC	@}@ G-M	<	1	2160		GMARK	1129
6103	45	64	DBLOP	FTMSG	31,DOUBLE OPERATORS,CODE,18	<				MACRO	
6104			DBLOP	CS	332	<	4	2161	/ 332	GEN	1129
6105				CS		<	1	2165	/	GEN	1130
6106				SW	FAILSW	<	4	2166	, 184	GEN	1130
6107				MN	CODE,224&18	<	7	2170	D M47 242	GEN	1130
6108				MN		<	1	2177	D	GEN	1130
6109				MN		<	1	2178	D	GEN	1130
6110				MCW	@ERROR 31 - DOUBLE OPERATORS, STATEMENT @	<	4	2179	M P67	GEN	1130
6111				W		<	1	2183	2	GEN	1130
6112				BCV	*&5	<	5	2184	B J93 @	GEN	1131
6113				B	*&3	<	4	2189	B J95	GEN	1131
6114				CC	1	<	2	2193	F 1	GEN	1131
6115	45	65		B	ZONCH	<	4	2195	B !35		1131
6116	45	66	SUBSC	SBR	MESBX,12&X1	<	7	2199	H 042 0/2		1131

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6117	45	67		BCE	MESCM,11&X1,\$	<	8	2206	B !72 0/1 \$		1131
6118	45	68		SBR	MESBX,18&X1	<	7	2214	H 042 0/8		1131
6119	45	69		B	MESCM	<	4	2221	B !72		1132
6120	45	70	*								
6121	45	71	*		TABLE OF FORTRAN FUNCTIONS						
6122	45	72	*								
6123	45	73		DCW	@*@ SIGNALS END OF TABLE	<	1	2225			1132
6124	45	74	*								
6125	45	75		DCW	@ %FSOCC@	<	9	2234			1132
6126	45	76		DCW	@ %FSBAXA@	<	9	2243			1132
6127	45	77		DCW	@ %FKNILXI@	<	9	2252			1132
6128	45	78	*		USER FUNCTIONS						
6129	45	79		DCW	@ H@ USER FN 12	<	9	2261			1133
6130	45	80		DCW	@ D@ USER FN 11	<	9	2270			1133
6131	45	81		DCW	@ M@ USER FN 10	<	9	2279			1133
6132	45	82		DCW	@ L@ USER FN 9	<	9	2288			1133
6133	45	83		DCW	@ K@ USER FN 8	<	9	2297			1134
6134	45	84		DCW	@ J@ USER FN 7	<	9	2306			1134
6135	45	85		DCW	@ Z@ USER FN 6	<	9	2315			1134
6136	45	86		DCW	@ Y@ USER FN 5	<	9	2324			1134
6137	45	87		DCW	@ W@ USER FN 4	<	9	2333			1135
6138	45	88		DCW	@ P@ USER FN 3	<	9	2342			1135
6139	45	89		DCW	@ U@ USER FN 2	<	9	2351			1135
6140	45	90		DCW	@ R@ USER FN 1	<	9	2360			1135
6141	45	91		DCW	@ %FTRQSQ@	<	9	2369			1136
6142	45	92		DCW	@ %FTAOLFF@	<	9	2378			1136
6143	45	93		DCW	@ %FXIFXX@	<	9	2387			1136
6144	45	94		DCW	#9	<	9	2396			1136
6145	45	95		DCW	@ %FSBAA@	<	9	2405			1137
6146	45	96		DCW	@ %FNATAT@	<	9	2414			1137
6147	45	97		DCW	@ %FPXEE@	<	9	2423			1137
6148	45	98		DCW	@ %FGOLG@	<	9	2432			1137
6149	45	99		DCW	@ %FNISS@	<	9	2441			1138
6150	46	00	FTBL1	DCW	#1	<	1	2442			1138
6151	46	01		LTORG	*	<			2443		
				DCW	@.@	<	1	2443		LIT	1138
			CODE <	DCW	#04	<	4	2447		AREA	1138
			KILL <	DCW	#03	<	3	2450		AREA	1138
			NOMO <	DCW	#03	<	3	2453		AREA	1138
				DCW	@ARITH TWO@	<	9	2462		LIT	1138
			NEXT <	DCW	#03	<	3	2465		AREA	1139
			BLK10<	DCW	#10	<	10	2475		AREA	1139
				DCW	@#<99@	<	4	2479		LIT	1139
			LAST <	DCW	#03	<	3	2482		AREA	1139
			FUNBX<	DCW	#03	<	3	2485		AREA	1139
				DCW	@&-@*#%})@	<	8	2493		LIT	1139
				DCW	@&-*@.#,@	<	7	2500		LIT	1139
			BOX <	DCW	#02	<	2	2502		AREA	1140
				DCW	@&*@-})@	<	6	2508		LIT	1140
				DCW	@&-*.@ %,@	<	8	2516		LIT	1140

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			BOX2	<	DCW #02	<	2	2518		AREA	1140
					DCW @&-@*.,@	<	6	2524		LIT	1140
					DCW @,@	<	1	2525		LIT	1140
					DCW @&-*@ #%,.@	<	9	2534		LIT	1140
			HEX2	<	DCW #03	<	3	2537		AREA	1141
			HEX3	<	DCW #03	<	3	2540		AREA	1141
			HEX1	<	DCW #03	<	3	2543		AREA	1141
					DCW @ERROR 29 - UNDEFINED FUNCTION NAME, STATEMENT @	<	46	2589		LIT	1143
					DCW @SGECT@	<	5	2594		LIT	1143
			BLNK1	<	DCW #01	<	1	2595		AREA	1143
					DCW @ERROR 23 - CODING UNINTELLIGIBLE, STATEMENT @	<	44	2639		LIT	1145
			MESBX	<	DCW #03	<	3	2642		AREA	1145
					DCW @ERROR 25 - LEFT SIDE INVALID, STATEMENT @	<	40	2682		LIT	1147
					DCW @ERROR 27 - ARITHMETIC SYNTAX ERROR, STATEMENT @	<	46	2728		LIT	1149
					DCW @ERROR 31 - DOUBLE OPERATORS, STATEMENT @	<	39	2767		LIT	1150
6152	46	02	SYSGM		DCW @}@	<	1	2768		GMARK	1151
6153	46	03			XFR START	<			B 838		1152

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6154	46	04		JOB	ARITH PHASE TWO	<					
6155	46	05		FBEGN	ARITH 2,X1,,X2,,X3,,0	<				MACRO	
6156				SFX	0	0				GEN	
6157			110	DCW	@ARITH 2@	0	7	0110		GEN	1155
6158			X1	EQU	089	0		0089		GEN	
6159			X2	EQU	094	0		0094		GEN	
6160			X3	EQU	099	0		0099		GEN	
6161	46	06		ORG	XBEGIN	0			0838		
6162	46	07	INITL	BCE	OUT,X2,,	0	8	0838	B N47 094 .		1156
6163	46	08		SW	GM	0	4	0846	, N73		1156
6164	46	09		MCW	X2,NOMO#3	0	7	0850	M 094 P45		1156
6165	46	10		SBR	X3,2&X3	0	7	0857	H 099 0?2		1156
6166	46	11		SBR	X1,2&X1	0	7	0864	H 089 0 2		1156
6167	46	12		MCW	X1,X2	0	7	0871	M 089 094		1157
6168	46	13	CLR1	MN	X2,TAIL#2	0	7	0878	D 094 P47		1157
6169	46	14		MN		0	1	0885	D		1157
6170	46	15		C	TAIL,@00@	0	7	0886	C P47 P49		1157
6171	46	16		BE	STO	0	5	0893	B 913 S		1157
6172	46	17		CW	0&X2	0	4	0898	) 0!0		1157
6173	46	18		SBR	X2,1&X2	0	7	0902	H 094 0!1		1157
6174	46	19		B	CLR1	0	4	0909	B 878		1158
6175	46	20	STO	MN	0&X2	0	4	0913	D 0!0		1158
6176	46	21		SAR	LAST#3	0	4	0917	Q P52		1158
6177	46	22		MN	0&X3	0	4	0921	D 0?0		1158
6178	46	23		SAR	X2	0	4	0925	Q 094		1158
6179	46	24	CLR2	C	X2, LAST	0	7	0929	C 094 P52		1158
6180	46	25		BE	MVUP	0	5	0936	B 953 S		1158
6181	46	26		CS	0&X2	0	4	0941	/ 0!0		1159
6182	46	27		SBR	X2	0	4	0945	H 094		1159
6183	46	28		B	CLR2	0	4	0949	B 929		1159
6184	46	29	MVUP	MOVUP	X3,X1,NOMO,ALL,	0				MACRO	
6185			MVUP	MN	0&X1	0	4	0953	D 0 0	GEN	1159
6186				SAR	X1	0	4	0957	Q 089	GEN	1159
6187			)0J163	MCM	0&X3	0	4	0961	P 0?0	GEN	1159
6188				SAR	)0L163&6	0	4	0965	Q 987	GEN	1159
6189				MCM	0&X3,1&X1	0	7	0969	P 0?0 0 1	GEN	1160
6190				MN		0	1	0976	D	GEN	1160
6191				SBR	X1	0	4	0977	H 089	GEN	1160
6192			)0L163	SBR	X3,0	0	7	0981	H 099 000	GEN	1160
6193				BCE	)0J163,0&X1,	0	8	0988	B 961 0 0	GEN	1160
6194				MN	0&X3	0	4	0996	D 0?0	GEN	1160
6195				CW		0	1	1000	)	GEN	1160
6196				SW	0&X1	0	4	1001	, 0 0	GEN	1161
6197				C	X3,NOMO	0	7	1005	C 099 P45	GEN	1161
6198				BU	)0J163	0	5	1012	B 961 /	GEN	1161
6199	46	30		MN	0&X1	0	4	1017	D 0 0		1161
6200	46	31		SAR	X1	0	4	1021	Q 089		1161
6201	46	32		MN	0&X3	0	4	1025	D 0?0		1161
6202	46	33		SBR	NXBTM#3	0	4	1029	H P55		1161
6203	46	34		BCE	START,0&X3,}	0	8	1033	B  60 0?0 }	GMARK	1162

GROUP MK



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6204	46	35		SBR	X3	0	4	1041	H 099		1162
6205	46	36		LCA	GM	0	4	1045	L N73		1162
6206	46	37		SBR	NXBTM	0	4	1049	H P55		1162
6207	46	38		MCW	X3,NOMO	0	7	1053	M 099 P45		1162
6208	46	39	START	MCW	NXBTM,HEX2#3	0	7	1060	M P55 P58		1162
6209	46	40		MCW	0&X1,X3	0	7	1067	M 0 0 099		1163
6210	46	41		BWZ	*&5,X3,2	0	8	1074	V  86 099 2		1163
6211	46	42		B	*&9	0	4	1082	B  94		1163
6212	46	43		BWZ	*&8,X3-2,2	0	8	1086	V /01 097 2		1163
6213	46	44		MCW	0&X3,X3	0	7	1094	M 0?0 099		1163
6214	46	45		MCW	X3,CODE#3	0	7	1101	M 099 P61		1164
6215	46	46		MCW	BLNKS,CNTR	0	7	1108	M Q14 Q28		1164
6216	46	47		MCW	@ @,40&X1	0	7	1115	M P62 0U0		1164
6217	46	48		SBR	KLOBR&6,40&X1	0	7	1122	H /85 0U0		1164
6218	46	49		B	MVDWN	0	4	1129	B S57		1164
6219	46	50		BCE	IF,2&X1,E	0	8	1133	B S21 0 2 E		1165
6220	46	51		C	2&X1,@R@	0	7	1141	C 0 2 P63		1165
6221	46	52		BU	DUN	0	5	1148	B N19 /		1165
6222	46	53	ARITH	MCW	X1,X3	0	7	1153	M 089 099		1165
6223	46	54		SBR	TUKIT&3,0&X1	0	7	1160	H M96 0 0		1165
6224	46	55		C	0&X3	0	4	1167	C 0?0		1165
6225	46	56		SAR	NEXT#3	0	4	1171	Q P66		1166
6226	46	57		B	GETLF	0	4	1175	B S91		1166
6227	46	58	KLOBR	BCE	CNTRL,0,]	0	8	1179	B T81 000 ]		1166
6228	46	59		FQUIT		0				MACRO	
6229				CS	332	0	4	1187	/ 332	GEN	1166
6230				CS		0	1	1191	/	GEN	1166
6231				CC	1	0	2	1192	F 1	GEN	1166
6232				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	0	7	1194	M Q02 270	GEN	1166
6233				W		0	1	1201	2	GEN	1167
6234				CC	1	0	2	1202	F 1	GEN	1167
6235				BCE	*&6,MONTOR,1	0	8	1204	B S17 769 1	GEN	1167
6236				RWD	1	0	5	1212	U %U1 R	GEN	1167
6237				H	*-3	0	4	1217	. S17	GEN	1167
6238	46	60	IF	MCW	X1,X3	0	7	1221	M 089 099		1167
6239	46	61	RUCOM	BCE	PASS,0&X3,,	0	8	1228	B S44 0?0 ,		1167
6240	46	62		SBR	X3	0	4	1236	H 099		1168
6241	46	63		B	RUCOM	0	4	1240	B S28		1168
6242	46	64	PASS	MN	0&X3	0	4	1244	D 0?0		1168
6243	46	65		SW		0	1	1248	,		1168
6244	46	66		B	MVDWN	0	4	1249	B S57		1168
6245	46	67		B	ARITH	0	4	1253	B /53		1168
6246	46	68	MVDWN	SBR	EXMVD&3	0	4	1257	H S90		1168
6247	46	69		MCW	NXBTM,X2	0	7	1261	M P55 094		1169
6248	46	70		LCA	0&X1,0&X2	0	7	1268	L 0 0 0!0		1169
6249	46	71		SBR	NXBTM	0	4	1275	H P55		1169
6250	46	72		C	0&X1	0	4	1279	C 0 0		1169
6251	46	73		SAR	X1	0	4	1283	Q 089		1169
6252	46	74	EXMVD	B	0	0	4	1287	B 000		1169
6253	46	75	GETLF	SBR	EXGTL&3	0	4	1291	H T46		1169

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6254	46	76		BCE	SBSCR,0&X3,\$	0	8	1295	B T47 0?0 \$		1170
6255	46	77	LOOP	MCW	0&X3,PHILF	0	7	1303	M 0?0 Q15		1170
6256	46	78		SAR	X3	0	4	1310	Q 099		1170
6257	46	79		MCW	PHILF,*&8	0	7	1314	M Q15 T28		1170
6258	46	80		BCE	EXGTL,OPS,0	0	8	1321	B T43 O42 0		1170
6259	46	81		CHAIN	10	0				MACRO	
6260				BCE		0	1	1329	B	GEN	1170
6261				BCE		0	1	1330	B	GEN	1170
6262				BCE		0	1	1331	B	GEN	1171
6263				BCE		0	1	1332	B	GEN	1171
6264				BCE		0	1	1333	B	GEN	1171
6265				BCE		0	1	1334	B	GEN	1171
6266				BCE		0	1	1335	B	GEN	1171
6267				BCE		0	1	1336	B	GEN	1171
6268				BCE		0	1	1337	B	GEN	1171
6269				BCE		0	1	1338	B	GEN	1172
6270	46	82		B	LOOP	0	4	1339	B T03		1172
6271	46	83	EXGTL	B	0	0	4	1343	B 000		1172
6272	46	84	SBSCR	C	0&X3,BLNKS#12	0	7	1347	C 0?0 Q14		1172
6273	46	85		SAR	X3	0	4	1354	Q 099		1172
6274	46	86		BCE	EXGTL,2&X3,\$	0	8	1358	B T43 0?2 \$		1172
6275	46	87		C	0&X3,BLNKS-6	0	7	1366	C 0?0 Q08		1172
6276	46	88		SAR	X3	0	4	1373	Q 099		1173
6277	46	89		B	EXGTL	0	4	1377	B T43		1173
6278	46	90	CNTRL	MCW	1&X3,PHILF#1	0	7	1381	M 0?1 Q15		1173
6279	46	91		MCW	1&X1,PHIRT#1	0	7	1388	M 0 1 Q16		1173
6280	46	92		MCW	PHIRT,CKOP&7	0	7	1395	M Q16 V46		1173
6281	46	93		MCW	BLNKS,UNITS#3	0	7	1402	M Q14 Q19		1173
6282	46	94		B	GTNUM	0	4	1409	B V16		1174
6283	46	95		MN	NUM#1,UNITS-1	0	7	1413	D Q20 Q18		1174
6284	46	96		MCW	PHILF,CKOP&7	0	7	1420	M Q15 V46		1174
6285	46	97		B	GTNUM	0	4	1427	B V16		1174
6286	46	98		MN	NUM,UNITS	0	7	1431	D Q20 Q19		1174
6287	46	99		MCW	UNITS,X2	0	7	1438	M Q19 094		1174
6288	47	00		MN	MATRX&X2,X2	0	7	1445	D OM3 094		1175
6289	47	01		MCW	BLNKS	0	4	1452	M Q14		1175
6290	47	02		BWZ	ERR5,X2,S	0	8	1456	V K61 094 S		1175
6291	47	03		A	X2	0	4	1464	A 094		1175
6292	47	04		A	X2	0	4	1468	A 094		1175
6293	47	05		B	*&1&X2	0	4	1472	B UP6		1175
6294	47	06		B	SKIP	0	4	1476	B W03		1175
6295	47	07		B	PAREN	0	4	1480	B W18		1176
6296	47	08		B	FORCE	0	4	1484	B W59		1176
6297	47	09		B	EOJ	0	4	1488	B M58		1176
6298	47	10		B	NEG	0	4	1492	B Z48		1176
6299	47	11		B	FUN	0	4	1496	B Z81		1176
6300	47	12		B	ERR1	0	4	1500	B M13		1176
6301	47	13		B	ERR2	0	4	1504	B L75		1176
6302	47	14		B	ERR3	0	4	1508	B L37		1177
6303	47	15		B	ERR4	0	4	1512	B K99		1177

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6304	47	16	GTNUM	SBR	CKOP&3	0	4	1516	H V42		1177
6305	47	17		BCE	GOTUM,CKOP&7,-	0	8	1520	B V62 V46 -		1177
6306	47	18	NISH	S	NUM	0	4	1528	S Q20		1177
6307	47	19		MCW	&OPS,CKOP&6	0	7	1532	M Q23 V45		1177
6308	47	20	CKOP	BCE	0,0,0	0	8	1539	B 000 000 0		1177
6309	47	21		SBR	CKOP&6	0	4	1547	H V45		1178
6310	47	22		A	@1@,NUM	0	7	1551	A Q24 Q20		1178
6311	47	23		B	CKOP	0	4	1558	B V39		1178
6312	47	24	GOTUM	MCW	@&@,CKOP&7	0	7	1562	M Q25 V46		1178
6313	47	25		B	NISH	0	4	1569	B V28		1178
6314	47	26	GNTMP	SBR	EXGTP&3	0	4	1573	H W02		1178
6315	47	27		A	@1@,CNTR#3	0	7	1577	A Q24 Q28		1178
6316	47	28		MZ	CNTR-1,TEMP	0	7	1584	Y Q27 N72		1179
6317	47	29		MN	CNTR,TEMP	0	7	1591	D Q28 N72		1179
6318	47	30		MN		0	1	1598	D		1179
6319	47	31	EXGTP	B	0	0	4	1599	B 000		1179
6320	47	32	SKIP	MCW	X3,X1	0	7	1603	M 099 089		1179
6321	47	33		B	GETLF	0	4	1610	B S91		1179
6322	47	34		B	CNTRL	0	4	1614	B T81		1179
6323	47	35	PAREN	SW	2&X3	0	4	1618	, 0?2		1180
6324	47	36		LCA	0&X1,1&X1	0	7	1622	L 0 0 0 1		1180
6325	47	37		CW	3&X3	0	4	1629	) 0?3		1180
6326	47	38		CW		0	1	1633	)		1180
6327	47	39		LCA	0&X3,2&X3	0	7	1634	L 0?0 0?2		1180
6328	47	40		SBR	X1,1&X1	0	7	1641	H 089 0 1		1180
6329	47	41		SBR	X3,1&X3	0	7	1648	H 099 0?1		1180
6330	47	42		B	CNTRL	0	4	1655	B T81		1181
6331	47	43	FORCE	MCW	NXBTM,X2	0	7	1659	M P55 094		1181
6332	47	44		MZ	4&X3,ZONE#1	0	7	1666	Y 0?4 Q29		1181
6333	47	45		BCE	*&8,2&X3,\$	0	8	1673	B W88 0?2 \$		1181
6334	47	46		MZ	3&X3,ZONE	0	7	1681	Y 0?3 Q29		1181
6335	47	47		SW	2&X3	0	4	1688	, 0?2		1181
6336	47	48		LCA	0&X1,0&X2	0	7	1692	L 0 0 0!0		1182
6337	47	49		SBR	X2	0	4	1699	H 094		1182
6338	47	50		CW	1&X2	0	4	1703	) 0!1		1182
6339	47	51		SW	2&X1	0	4	1707	, 0 2		1182
6340	47	52		SW		0	1	1711	,		1182
6341	47	53		LCA	1&X1,0&X2	0	7	1712	L 0 1 0!0		1182
6342	47	54		SBR	X2	0	4	1719	H 094		1182
6343	47	55		SBR	NXBTM	0	4	1723	H P55		1183
6344	47	56		CW	1&X2	0	4	1727	) 0!1		1183
6345	47	57		BCE	SBVRT,2&X1,\$	0	8	1731	B Y90 0 2 \$		1183
6346	47	58		LCA	4&X1,0&X2	0	7	1739	L 0 4 0!0		1183
6347	47	59		SBR	NXBTM	0	4	1746	H P55		1183
6348	47	60		MZ	3&X1,TEMP-1	0	7	1750	Y 0 3 N71		1183
6349	47	61		SAR	X1	0	4	1757	Q 089		1183
6350	47	62	FNISH	B	GNTMP	0	4	1761	B V73		1184
6351	47	63		LCA	TEMP,2&X1	0	7	1765	L N72 0 2		1184
6352	47	64		LCA	1&X3	0	4	1772	L 0?1		1184
6353	47	65		CW	0&X1	0	4	1776	) 0 0		1184

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6354	47	66		MN		0	1	1780	D		1184
6355	47	67		SAR	X3	0	4	1781	Q 099		1184
6356	47	68		SBR	X1,2&X1	0	7	1785	H 089 0 2		1184
6357	47	69		BWZ	RUINT,TEMP-1,S	0	8	1792	V Y36 N71 S		1185
6358	47	70		BWZ	RUINT,TEMP-1,K	0	8	1800	V Y36 N71 K		1185
6359	47	71		BWZ	KLOBR,ZONE,2	0	8	1808	V /79 Q29 2		1185
6360	47	72		BWZ	KLOBR,ZONE,B	0	8	1816	V /79 Q29 B		1185
6361	47	73		BCE	KLOBR,PHIRT,.	0	8	1824	B /79 Q16 .		1186
6362	47	74		B	ERR46	0	4	1832	B Y52		1186
6363	47	75	RUINT	BWZ	KLOBR,ZONE,S	0	8	1836	V /79 Q29 S		1186
6364	47	76		BWZ	KLOBR,ZONE,K	0	8	1844	V /79 Q29 K		1186
6365	47	77	ERR46	FTMSG	46,MIXING IN ARITH,CODE,17	0				MACRO	
6366			ERR46	CS	332	0	4	1852	/ 332	GEN	1186
6367				CS		0	1	1856	/	GEN	1186
6368				SW	FAILSW	0	4	1857	, 184	GEN	1186
6369				MN	CODE,224&17	0	7	1861	D P61 241	GEN	1187
6370				MN		0	1	1868	D	GEN	1187
6371				MN		0	1	1869	D	GEN	1187
6372				MCW	@ERROR 46 - MIXING IN ARITH, STATEMENT @	0	4	1870	M Q67	GEN	1187
6373				W		0	1	1874	2	GEN	1187
6374				BCV	*&5	0	5	1875	B Y84 @	GEN	1187
6375				B	*&3	0	4	1880	B Y86	GEN	1187
6376				CC	1	0	2	1884	F 1	GEN	1188
6377	47	78		B	KILL	0	4	1886	B M47		1188
6378	47	79	SBVRT	SBR	X2,10&X1	0	7	1890	H 094 0/0		1188
6379	47	80		BCE	SEND,2&X2,\$	0	8	1897	B Z12 0!2 \$		1188
6380	47	81		SBR	X2,6&X2	0	7	1905	H 094 0!6		1188
6381	47	82	SEND	MCW	NXBTM,*&7	0	7	1912	M P55 Z25		1188
6382	47	83		LCA	2&X2,0	0	7	1919	L 0!2 000		1189
6383	47	84		SBR	NXBTM	0	4	1926	H P55		1189
6384	47	85		MZ	4&X1,TEMP-1	0	7	1930	Y 0!4 N71		1189
6385	47	86		MCW	X2,X1	0	7	1937	M 094 089		1189
6386	47	87		B	FNISH	0	4	1944	B X61		1189
6387	47	88	NEG	MCW	@N@,1&X1	0	7	1948	M Q68 0!1		1189
6388	47	89		MZ	4&X3,TEMP-1	0	7	1955	Y 0?4 N71		1190
6389	47	90		BCE	FUNY,2&X3,\$	0	8	1962	B J17 0?2 \$		1190
6390	47	91		MZ	3&X3,TEMP-1	0	7	1970	Y 0?3 N71		1190
6391	47	92		B	FUNY	0	4	1977	B J17		1190
6392	47	93	FUN	MCW	3&X1,TYPE#2	0	7	1981	M 0!3 Q70		1190
6393	47	94		BCE	FXMOD,3&X1,X	0	8	1988	B J75 0!3 X		1191
6394	47	95		MZ	*-4,TEMP-1	0	7	1996	Y Z98 N71		1191
6395	47	96	CKUSR	SW	2&X1	0	4	2003	, 0!2		1191
6396	47	97		MCW	2&X1,*&8	0	7	2007	M 0!2 !21		1191
6397	47	98		BCE	OKAY,@RUPWYZKJLMDH@,0	0	8	2014	B !99 Q82 0		1191
6398	47	99		CHAIN	11	0				MACRO	
6399				BCE		0	1	2022	B	GEN	1191
6400				BCE		0	1	2023	B	GEN	1191
6401				BCE		0	1	2024	B	GEN	1192
6402				BCE		0	1	2025	B	GEN	1192
6403				BCE		0	1	2026	B	GEN	1192

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6404				BCE		0	1	2027	B	GEN	1192
6405				BCE		0	1	2028	B	GEN	1192
6406				BCE		0	1	2029	B	GEN	1192
6407				BCE		0	1	2030	B	GEN	1192
6408				BCE		0	1	2031	B	GEN	1193
6409				BCE		0	1	2032	B	GEN	1193
6410	48	00		MZ	4&X3,ZONE	0	7	2033	Y 0?4 Q29		1193
6411	48	01		BCE	*&8,2&X3,\$	0	8	2040	B !55 0?2 \$		1193
6412	48	02		MZ	3&X3,ZONE	0	7	2048	Y 0?3 Q29		1193
6413	48	03		BCE	RUFIX,2&X1,F	0	8	2055	B K07 0 2 F		1193
6414	48	04		BCE	RUFIX,2&X1,I	0	8	2063	B K07 0 2 I		1194
6415	48	05		C	TYPE,@AX@	0	7	2071	C Q70 Q84		1194
6416	48	06		BE	RUFIX	0	5	2078	B K07 S		1194
6417	48	07		BWZ	ERR6,ZONE,S	0	8	2083	V K23 Q29 S		1194
6418	48	08		BWZ	ERR6,ZONE,K	0	8	2091	V K23 Q29 K		1194
6419	48	09	OKAY	MCW	2&X1,1&X1	0	7	2099	M 0 2 0 1		1195
6420	48	10		MCW	@%@,2&X1	0	7	2106	M Q85 0 2		1195
6421	48	11		CW	2&X1	0	4	2113	) 0 2		1195
6422	48	12	FUNY	MCW	NXBTM,X2	0	7	2117	M P55 094		1195
6423	48	13		SW	2&X3	0	4	2124	, 0?2		1195
6424	48	14		LCA	1&X1,0&X2	0	7	2128	L 0 1 0!0		1195
6425	48	15		SBR	NXBTM	0	4	2135	H P55		1196
6426	48	16		B	GNTMP	0	4	2139	B V73		1196
6427	48	17		LCA	TEMP,1&X1	0	7	2143	L N72 0 1		1196
6428	48	18		LCA	1&X3	0	4	2150	L 0?1		1196
6429	48	19		MN	0&X1	0	4	2154	D 0 0		1196
6430	48	20		CW		0	1	2158	)		1196
6431	48	21		MN		0	1	2159	D		1196
6432	48	22		SAR	X3	0	4	2160	Q 099		1197
6433	48	23		SBR	X1,1&X1	0	7	2164	H 089 0 1		1197
6434	48	24		B	KLOBR	0	4	2171	B /79		1197
6435	48	25	FXMOD	MZ	*-6,TEMP-1	0	7	2175	Y J75 N71		1197
6436	48	26		LCA	2&X1,3&X1	0	7	2182	L 0 2 0 3		1197
6437	48	27		SBR	X1,1&X1	0	7	2189	H 089 0 1		1197
6438	48	28		SBR	X3,1&X3	0	7	2196	H 099 0?1		1198
6439	48	29		B	CKUSR	0	4	2203	B !03		1198
6440	48	30	RUFIX	BWZ	OKAY,ZONE,S	0	8	2207	V !99 Q29 S		1198
6441	48	31		BWZ	OKAY,ZONE,K	0	8	2215	V !99 Q29 K		1198
6442	48	32	ERR6	CS	332	0	4	2223	/ 332		1198
6443	48	33		CS		0	1	2227	/		1198
6444	48	34		SW	FAILSW	0	4	2228	, 184		1198
6445	48	35		MN	CODE,224&37	0	7	2232	D P61 261		1199
6446	48	36		MN		0	1	2239	D		1199
6447	48	37		MN		0	1	2240	D		1199
6448	48	38		MCW	BGMSG	0	4	2241	M 031		1199
6449	48	39		W		0	1	2245	2		1199
6450	48	40		BCV	*&5	0	5	2246	B K55 @		1199
6451	48	41		B	*&3	0	4	2251	B K57		1199
6452	48	42		CC	1	0	2	2255	F 1		1200
6453	48	43		B	KILL	0	4	2257	B M47		1200

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6454	48	44	ERR5	FTMSG	24,SYSTEM ERROR,CODE,14	0				MACRO	
6455			ERR5	CS	332	0	4	2261	/ 332	GEN	1200
6456				CS		0	1	2265	/	GEN	1200
6457				SW	FAILSW	0	4	2266	, 184	GEN	1200
6458				MN	CODE,224&14	0	7	2270	D P61 238	GEN	1200
6459				MN		0	1	2277	D	GEN	1200
6460				MN		0	1	2278	D	GEN	1201
6461				MCW	@ERROR 24 - SYSTEM ERROR, STATEMENT @	0	4	2279	M R20	GEN	1201
6462				W		0	1	2283	2	GEN	1201
6463				BCV	*&5	0	5	2284	B K93 @	GEN	1201
6464				B	*&3	0	4	2289	B K95	GEN	1201
6465				CC	1	0	2	2293	F 1	GEN	1201
6466	48	45		B	KILL	0	4	2295	B M47		1201
6467	48	46	ERR4	FTMSG	26,EXCESS OF # SIGNS,CODE,19	0				MACRO	
6468			ERR4	CS	332	0	4	2299	/ 332	GEN	1202
6469				CS		0	1	2303	/	GEN	1202
6470				SW	FAILSW	0	4	2304	, 184	GEN	1202
6471				MN	CODE,224&19	0	7	2308	D P61 243	GEN	1202
6472				MN		0	1	2315	D	GEN	1202
6473				MN		0	1	2316	D	GEN	1202
6474				MCW	@ERROR 26 - EXCESS OF # SIGNS, STATEMENT @	0	4	2317	M R60	GEN	1202
6475				W		0	1	2321	2	GEN	1203
6476				BCV	*&5	0	5	2322	B L31 @	GEN	1203
6477				B	*&3	0	4	2327	B L33	GEN	1203
6478				CC	1	0	2	2331	F 1	GEN	1203
6479	48	47		B	KILL	0	4	2333	B M47		1203
6480	48	48	ERR3	FTMSG	32,MULTIPLE EXPONENT,CODE,19	0				MACRO	
6481			ERR3	CS	332	0	4	2337	/ 332	GEN	1203
6482				CS		0	1	2341	/	GEN	1203
6483				SW	FAILSW	0	4	2342	, 184	GEN	1204
6484				MN	CODE,224&19	0	7	2346	D P61 243	GEN	1204
6485				MN		0	1	2353	D	GEN	1204
6486				MN		0	1	2354	D	GEN	1204
6487				MCW	@ERROR 32 - MULTIPLE EXPONENT, STATEMENT @	0	4	2355	M ?00	GEN	1204
6488				W		0	1	2359	2	GEN	1204
6489				BCV	*&5	0	5	2360	B L69 @	GEN	1204
6490				B	*&3	0	4	2365	B L71	GEN	1205
6491				CC	1	0	2	2369	F 1	GEN	1205
6492	48	49		B	KILL	0	4	2371	B M47		1205
6493	48	50	ERR2	FTMSG	16,PARENTHESIS ERROR,CODE,19	0				MACRO	
6494			ERR2	CS	332	0	4	2375	/ 332	GEN	1205
6495				CS		0	1	2379	/	GEN	1205
6496				SW	FAILSW	0	4	2380	, 184	GEN	1205
6497				MN	CODE,224&19	0	7	2384	D P61 243	GEN	1205
6498				MN		0	1	2391	D	GEN	1206
6499				MN		0	1	2392	D	GEN	1206
6500				MCW	@ERROR 16 - PARENTHESIS ERROR, STATEMENT @	0	4	2393	M ?40	GEN	1206
6501				W		0	1	2397	2	GEN	1206
6502				BCV	*&5	0	5	2398	B M07 @	GEN	1206
6503				B	*&3	0	4	2403	B M09	GEN	1206

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6504				CC	1	0	2	2407	F 1	GEN	1206
6505	48	51		B	KILL	0	4	2409	B M47		1207
6506	48	52	ERR1	FTMSG	25,LEFT SIDE INVALID,CODE,19	0				MACRO	
6507			ERR1	CS	332	0	4	2413	/ 332	GEN	1207
6508				CS		0	1	2417	/	GEN	1207
6509				SW	FAILSW	0	4	2418	, 184	GEN	1207
6510				MN	CODE,224&19	0	7	2422	D P61 243	GEN	1207
6511				MN		0	1	2429	D	GEN	1207
6512				MN		0	1	2430	D	GEN	1207
6513				MCW	@ERROR 25 - LEFT SIDE INVALID, STATEMENT @	0	4	2431	M ?80	GEN	1208
6514				W		0	1	2435	2	GEN	1208
6515				BCV	*&5	0	5	2436	B M45 @	GEN	1208
6516				B	*&3	0	4	2441	B M47	GEN	1208
6517				CC	1	0	2	2445	F 1	GEN	1208
6518	48	53	KILL	MCW	HEX2,NXBTM	0	7	2447	M P58 P55		1208
6519	48	54		B	RESET	0	4	2454	B N08		1208
6520	48	55	EOJ	MCW	NXBTM,X2	0	7	2458	M P55 094		1209
6521	48	56		SW	2&X3	0	4	2465	, 0?2		1209
6522	48	57		LCA	0&X1,0&X2	0	7	2469	L 0 0 0!0		1209
6523	48	58		LCA	@#@	0	4	2476	L ?81		1209
6524	48	59		SBR	X2	0	4	2480	H 094		1209
6525	48	60		CW	2&X2	0	4	2484	) 0!2		1209
6526	48	61		CW		0	1	2488	)		1209
6527	48	62		SW	2&X1	0	4	2489	, 0 2		1210
6528	48	63	TUKIT	LCA	0,0&X2	0	7	2493	L 000 0!0		1210
6529	48	64		LCA	GM	0	4	2500	L N73		1210
6530	48	65		SBR	NXBTM	0	4	2504	H P55		1210
6531	48	66	RESET	MCW	NEXT,X1	0	7	2508	M P66 089		1210
6532	48	67		B	START	0	4	2515	B  60		1210
6533	48	68	DUN	SBR	X1,5&X1	0	7	2519	H 089 0 5		1210
6534	48	69		MCW	NXBTM,X3	0	7	2526	M P55 099		1211
6535	48	70		SBR	X2,5&X3	0	7	2533	H 094 0?5		1211
6536	48	71		MCW	NOMO,X3	0	7	2540	M P45 099		1211
6537	48	72	OUT	FENDX	C,,,,,,SYSGM,ARITH TRI	0				MACRO	
6538			OUT	BSS	333,C	0	5	2547	B 333 C	GEN	1211
6539				SBR	TCLEAR,SYSGM	0	7	2552	H 710 ?91	GEN	1211
6540				LCA	@ARITH TRI@,110	0	7	2559	L ?90 110	GEN	1212
6541				B	MONTER	0	4	2566	B 700	GEN	1212
6542	48	73		DCW	@<@ DELTA 12-6-8	0	1	2570			1212
6543	48	74	TEMP	DC	@ @ BLANKS	0	2	2572			1212
6544	48	75	GM	DC	@}@ GROUP MK	0	1	2573		GMARK	1212
6545	48	76		DCW	@ERROR 28 - INCORRECT MODE OF FUNCTION ARGUMENT, ST@	0	50	2623			1214
6546	48	77	BGMSG	DC	@ATEMENT @	0	8	2631			1214
6547	48	78		DCW	@-@	0	1	2632			1214
6548	48	79	OPS	DCW	@, .@&}#%)*@ PLUS, G-M, EQUAL	0	10	2642			1214
6549	48	80	MATRX	EQU	*&1	0		2643			
6550	48	81		DC	@220922200SSSSSSSSSSS010970000007093000006660S66666@	0	50	2692			1216
6551	48	82		DC	@020922000S220922200S220922280S0509700000440944400S@	0	50	2742			1218
6552	48	83	*								
6553	48	84	*								

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6554	48	85	*		ARITH ALGORITHM						
6555	48	86	*								
6556	48	87	*								
6557	48	88	*								
6558	48	89	*		PHI LEFT						
6559	48	90	*								
6560	48	91	*								
6561	48	92	*		* ) % # GM & / ** F% NG						
6562	48	93	*								
6563	48	94	*	P	* 2 2 0 9 2 2 2 0 0 0 S						
6564	48	95	*	H	) S S S S S S S S S S S						
6565	48	96	*	I	% 0 1 0 9 7 0 0 0 0 0 0						
6566	48	97	*		# 0 7 0 9 3 0 0 0 0 0 0						
6567	48	98	*	R	GM 6 6 6 0 S 6 6 6 6 6						
6568	48	99	*	I	-& 0 2 0 9 2 2 0 0 0 0 S						
6569	49	00	*	G	/ 2 2 0 9 2 2 2 0 0 0 S						
6570	49	01	*	H	. ** 2 2 0 9 2 2 2 8 0 0 S						
6571	49	02	*	T	F% 0 5 0 9 7 0 0 0 0 0 0						
6572	49	03	*		,NG 4 4 0 9 4 4 4 0 0 0 S						
6573	49	04	*								
6574	49	05	*								
6575	49	06	*		0 SKIP TO NEXT OP						
6576	49	07	*		1 DELETE PARENS						
6577	49	08	*		2 FORCE BINARY OP						
6578	49	09	*		3 EOJ						
6579	49	10	*		4 NEGATE FN						
6580	49	11	*		5 OTHER FN						
6581	49	12	*		6 LEFT SIDE INVALID						
6582	49	13	*		7 PAREN ERROR						
6583	49	14	*		8 DOUBLE EXPONENTIATION						
6584	49	15	*		9 MULTIPLE # SIGNS						
6585	49	16	*		S COMPILER ERROR						
6586	49	17	*								
6587	49	18	*								
6588	49	19			LTORG *	0			2743		
			NOMO	0	DCW #03	0	3	2745		AREA	1218
			TAIL	0	DCW #02	0	2	2747		AREA	1218
					DCW @00@	0	2	2749		LIT	1218
			LAST	0	DCW #03	0	3	2752		AREA	1218
			NXB	0	DCW #03	0	3	2755		AREA	1219
			HEX2	0	DCW #03	0	3	2758		AREA	1219
			CODE	0	DCW #03	0	3	2761		AREA	1219
					DCW @]@	0	1	2762		LIT	1219
					DCW @R@	0	1	2763		LIT	1219
			NEXT	0	DCW #03	0	3	2766		AREA	1219
					DCW @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	0	36	2802		LIT	1220
			BLNKS	0	DCW #12	0	12	2814		AREA	1221
			PHILF	0	DCW #01	0	1	2815		AREA	1221
			PHIRT	0	DCW #01	0	1	2816		AREA	1221
			UNITS	0	DCW #03	0	3	2819		AREA	1221



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			NUM	0	DCW #01	0	1	2820		AREA	1221
					DCW &OPS 0	0	3	2823	O42	ADCON	1221
					DCW @1@	0	1	2824		LIT	1221
					DCW @&@	0	1	2825		LIT	1222
			CNTR	0	DCW #03	0	3	2828		AREA	1222
			ZONE	0	DCW #01	0	1	2829		AREA	1222
					DCW @ERROR 46 - MIXING IN ARITH, STATEMENT @	0	38	2867		LIT	1223
					DCW @N@	0	1	2868		LIT	1223
			TYPE	0	DCW #02	0	2	2870		AREA	1224
					DCW @RUPWYZKJLMDH@	0	12	2882		LIT	1224
					DCW @AX@	0	2	2884		LIT	1224
					DCW @%@	0	1	2885		LIT	1224
					DCW @ERROR 24 - SYSTEM ERROR, STATEMENT @	0	35	2920		LIT	1225
					DCW @ERROR 26 - EXCESS OF # SIGNS, STATEMENT @	0	40	2960		LIT	1227
					DCW @ERROR 32 - MULTIPLE EXPONENT, STATEMENT @	0	40	3000		LIT	1229
					DCW @ERROR 16 - PARENTHESIS ERROR, STATEMENT @	0	40	3040		LIT	1231
					DCW @ERROR 25 - LEFT SIDE INVALID, STATEMENT @	0	40	3080		LIT	1233
					DCW @##@	0	1	3081		LIT	1233
					DCW @ARITH TRI@	0	9	3090		LIT	1233
6589	49	20	SYSGM		DCW @}@ SYSTEM GROUP MK	0	1	3091		GMARK	1233
6590	49	21		XFR	INITL	0			B 838		1234

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SEQ	PG	LIN	LABEL	OP	OPERANDS
6591	49	22		JOB	ARITH PHASE THREE
6592	49	23		SFX	[ 12-5-8
6593	49	24	110	DCW	@ARITH 3@
6594	49	25		ORG	XBEGIN
6595	49	26	START	FENDX	C,,,,,SYSGM,ARITH 4
6596			START	BSS	333,C
6597				SBR	TCLEAR,SYSGM
6598				LCA	@ARITH 4@,110
6599				B	MONTER
6600	49	27		ORG	*200
6601	49	28		LTORG	*
				DCW	@ARITH 4@
6602	49	29	SYSGM	DCW	@}@
6603	49	30		XFR	START

SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
0					
[					
[	7	0110			1237
[			0838		
[				MACRO	
[	5	0838	B 333 C	GEN	1238
[	7	0843	H 710  68	GEN	1238
[	7	0850	L  67 110	GEN	1238
[	4	0857	B 700	GEN	1238
[			1061		
[			1061		
[	7	1067		LIT	1239
[	1	1068		GMARK	1239
[			B 838		1240

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6604	49	31		JOB	ARITH PHASE FOUR	[					
6605	49	32		FBEGN	ARITH 4, X1,,X2,,X3,,7	[				MACRO	
6606				SFX	7	7				GEN	
6607			110	DCW	@ARITH 4@	7	7	0110		GEN	1243
6608			X1	EQU	089	7		0089		GEN	
6609			X2	EQU	094	7		0094		GEN	
6610			X3	EQU	099	7		0099		GEN	
6611	49	33		ORG	XBEGIN	7			0838		
6612	49	34	* START	-	INITIALIZATION						
6613	49	35	START	BCE	FENDX,X2,.	7	8	0838	B R37 094 .		1244
6614	49	36		SW	GM1	7	4	0846	, K40		1244
6615	49	37		SBR	SAVX3#3,0&X3	7	7	0850	H R62 0?0		1244
6616	49	38		SBR	X1,1&X1	7	7	0857	H 089 0 1		1244
6617	49	39		SBR	X2,1&X2	7	7	0864	H 094 0 1		1244
6618	49	40	* START	OF	EVERY STATEMENT						
6619	49	41	NUSTM	S	TBLR	7	4	0871	S N72		1244
6620	49	42		C	X2, SAVX3	7	7	0875	C 094 R62		1245
6621	49	43		BE	FENDX	7	5	0882	B R37 S		1245
6622	49	44		MCW	BLK4,MAXDL	7	7	0887	M ?45 ?21		1245
6623	49	45		SBR	HEX1#3,0&X1	7	7	0894	H R65 0 0		1245
6624	49	46	* START	OF	EVERY DELTA STRING						
6625	49	47	BLKOP	MCW	BLK4, HLDOP#1	7	7	0901	M ?45 R66		1245
6626	49	48	CWPRT	CW	PRTSW	7	4	0908	) R36		1245
6627	49	49		B	FIX X2 AT HIGH ORDER MINUS ONE	7	4	0912	B N73		1246
6628	49	50		BCE	DELT1,LEFT-2,< 12-6-8 X2 AT UNITS POS	7	8	0916	B 974 ?61 <		1246
6629	49	51	CKDL2	BCE	DELT2,RIGHT-2,< 12-6-8	7	8	0924	B /66 ?86 <		1246
6630	49	52		BCE	OUTPT,1&X2,} GM	7	8	0932	B X33 0 1 } GMARK		1246
6631	49	53		BW	BIG,PRTSW	7	8	0940	V T02 R36 1		1246
6632	49	54	ADD3	A	@I99@,CURDL#3	7	7	0948	A R69 R72		1247
6633	49	55		MCW	CURDL,X3	7	7	0955	M R72 099		1247
6634	49	56		BCE	ADD3,TABLE&X3,1	7	8	0962	B 948 KD1 1		1247
6635	49	57		B	BLKOP	7	4	0970	B 901		1247
6636	49	58	* DELTA	IS	LEFT OPERAND						
6637	49	59	DELT1	BCE	CKDL2,OP,#	7	8	0974	B 924 ?64 #		1247
6638	49	60		BCE	TUF,OP,.	7	8	0982	B T28 ?64 .		1248
6639	49	61		B	CVTDL	7	4	0990	B P58		1248
6640	49	62		DCW	LEFT	7	3	0996	?63		1248
6641	49	63	D2	B	GETDL CVT3 HAS DELTA NO OF SOUGHT TEMP	7	4	0997	B Q37		1248
6642	49	64		MN	&1,TABLE&X1 MARK DELTA DELETED	7	7	1001	D R73 KU1		1248
6643	49	65		LCA	0&X3,HLD35#35	7	7	1008	L 0?0 ?08		1248
6644	49	66		SAR	X1	7	4	1015	Q 089		1248
6645	49	67	* DELETE	TEMP							
6646	49	68	CMP3	C	X1,X2	7	7	1019	C 089 094		1249
6647	49	69		BE	HLFT	7	5	1026	B  54 S		1249
6648	49	70		MVDWN	X1,X3	7				MACRO	
6649				LCA	0&X1,0&X3	7	7	1031	L 0 0 0?0	GEN	1249
6650				SAR	X1	7	4	1038	Q 089	GEN	1249
6651				C	0&X3	7	4	1042	C 0?0	GEN	1249
6652				SAR	X3	7	4	1046	Q 099	GEN	1249
6653	49	71		B	CMP3	7	4	1050	B  19		1249

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6654	49	72	*		X1 # X2 UNITS POSN OF TEMP TO BE OPTIMIZED						
6655	49	73	*		X3 # UNITS OF INSERTION OF OPTIMIZED TEMP						
6656	49	74	*		INSERT TEMP IN STRING						
6657	49	75	HLFT	C	0&X2	7	4	1054	C 0!0		1250
6658	49	76		SAR	X1 X1 AT HI ORD OF OLD TEMP	7	4	1058	Q 089		1250
6659	49	77		BW	CW2,PRTSW	7	8	1062	V R28 R36 1		1250
6660	49	78	CKRT	BCE	NORT,RIGHT,*	7	8	1070	B /01 ?88 *		1250
6661	49	79		BCE	FST1,OP,#	7	8	1078	B W95 ?64 #		1250
6662	49	80		LCA	RIGHT,0&X3	7	7	1086	L ?88 0?0		1250
6663	49	81		SBR	X3	7	4	1093	H 099		1251
6664	49	82		CW	1&X3	7	4	1097	) 0?1		1251
6665	49	83	NORT	LCA	OP,0&X3	7	7	1101	L ?64 0?0		1251
6666	49	84		SBR	X3	7	4	1108	H 099		1251
6667	49	85		CW	1&X3	7	4	1112	) 0?1		1251
6668	49	86		LCA	HLD35,0&X3	7	7	1116	L ?08 0?0		1251
6669	49	87		SBR	X3	7	4	1123	H 099		1251
6670	49	88		SBR	X2 X2 NOA AT NEW LOC OF TEMP	7	4	1127	H 094		1252
6671	49	89	*		SHIFT REST OF STATEMENT						
6672	49	90	LOAD2	LCA	0&X1,0&X3	7	7	1131	L 0!0 0?0		1252
6673	49	91		SAR	X1	7	4	1138	Q 089		1252
6674	49	92		C	0&X3	7	4	1142	C 0?0		1252
6675	49	93		SAR	X3	7	4	1146	Q 099		1252
6676	49	94		BCE	*&5,1&X1,} GM	7	8	1150	B /62 0!1 } GMARK		1252
6677	49	95		B	LOAD2	7	4	1158	B /31		1252
6678	49	96		B	BLKOP	7	4	1162	B 901		1253
6679	49	97	*		DELTA IS RIGHT OPERAND						
6680	49	98	DELT2	BCE	*&5,HLDOP, BLANK	7	8	1166	B /78 R66		1253
6681	49	99		B	CANU	7	4	1174	B U96		1253
6682	50	00		BCE	FIRST,OP,#	7	8	1178	B W63 ?64 #		1253
6683	50	01		FBCEQ	COMUT,OP,&,*					MACRO	
6684				BCE	COMUT, OP, &	7	8	1186	B S14 ?64 & GEN		1253
6685				BCE	COMUT, OP, *	7	8	1194	B S14 ?64 * GEN		1254
6686	50	02		BCE	NEGAT,OP,-	7	8	1202	B S39 ?64 -		1254
6687	50	03		B	CKND	7	4	1210	B V27		1254
6688	50	04	COMUT	LCA	LEFT,HLD35	7	7	1214	L ?63 ?08		1254
6689	50	05		LCA	RIGHT,LEFT	7	7	1221	L ?88 ?63		1254
6690	50	06		LCA	HLD35,RIGHT	7	7	1228	L ?08 ?88		1255
6691	50	07		B	DELT1	7	4	1235	B 974		1255
6692	50	08	NEGAT	BW	KWM,PRTSW	7	8	1239	V T79 R36 1		1255
6693	50	09		LCA	LEFT,0&X2	7	7	1247	L ?63 0!0		1255
6694	50	10		LCA	@&@	7	4	1254	L ?09		1255
6695	50	11		SBR	X2	7	4	1258	H 094		1255
6696	50	12		CW	2&X2,XNEGTF	7	7	1262	) 0!2 123		1256
6697	50	13	NEG3	LCA	RIGHT,LEFT	7	7	1269	L ?88 ?63		1256
6698	50	14		LCA	@***@,RIGHT	7	7	1276	L ?12 ?88		1256
6699	50	15		MCW	@N@,OP	7	7	1283	M ?13 ?64		1256
6700	50	16		CW	XNEGTF	7	4	1290	) 123		1256
6701	50	17		SW	PRTSW	7	4	1294	, R36		1256
6702	50	18		B	DELT1	7	4	1298	B 974		1257
6703	50	19	*		IN THE MIDDLE OF PARTIALLY OPTIMIZED TEMP						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6704	50	20	BIG	BCE	TUF,RIGHT,*	7	8	1302	B T28 ?88 *		1257
6705	50	21		MCW	OP,BCE1&7	7	7	1310	M ?64 T24		1257
6706	50	22	BCE1	BCE	MAYBE,@&-*@@, 0	7	8	1317	B T91 ?17 0		1257
6707	50	23		CHAIN	3	7				MACRO	
6708				BCE		7	1	1325	B	GEN	1257
6709				BCE		7	1	1326	B	GEN	1257
6710				BCE		7	1	1327	B	GEN	1257
6711	50	24	TUF	BW	*&5,PRTSW	7	8	1328	V T40 R36 1		1258
6712	50	25		B	ADD3	7	4	1336	B 948		1258
6713	50	26		B	KWM	7	4	1340	B T79		1258
6714	50	27	TUF2	BW	ADJST,2&X2	7	8	1344	V T60 0!2 1		1258
6715	50	28		SBR	X2	7	4	1352	H 094		1258
6716	50	29		B	TUF2	7	4	1356	B T44		1258
6717	50	30	ADJST	SBR	X2,1&X2	7	7	1360	H 094 0!1		1258
6718	50	31		BCE	OUTPT,1&X2,}	7	8	1367	B X33 0!1 }	GMARK	1259
6719	50	32		B	ADD3	7	4	1375	B 948		1259
6720	50	33	KWM	SBR	KWMXT&3	7	4	1379	H T90		1259
6721	50	34		CW	1&X2	7	4	1383	) 0!1		1259
6722	50	35	KWMXT	B	0	7	4	1387	B 000		1259
6723	50	36	MAYBE	BCE	*&5,HLDOP,	7	8	1391	B U03 R66		1259
6724	50	37		B	ADNL	7	4	1399	B U40		1259
6725	50	38		MCW	OP,HLDOP	7	7	1403	M ?64 R66		1260
6726	50	39	MESUR	CW	1&X2	7	4	1410	) 0!1		1260
6727	50	40		LCA	RIGHT,0&X2	7	7	1414	L ?88 0!0		1260
6728	50	41		SBR	X2	7	4	1421	H 094		1260
6729	50	42		CW	MIDSW#1	7	4	1425	) ?18		1260
6730	50	43		SBR	CW5&3,1&X2	7	7	1429	H 017 0!1		1260
6731	50	44		B	CWPRT	7	4	1436	B 908		1260
6732	50	45	ADNL	FBCEQ	HOPE,HLDOP,&,-	7				MACRO	
6733			ADNL	BCE	HOPE, HLDOP, &	7	8	1440	B U76 R66 &	GEN	1261
6734				BCE	HOPE, HLDOP, -	7	8	1448	B U76 R66 -	GEN	1261
6735	50	46		FBCEQ	MESUR,OP,*,/	7				MACRO	
6736				BCE	MESUR, OP, *	7	8	1456	B U10 ?64 *	GEN	1261
6737				BCE	MESUR, OP, /	7	8	1464	B U10 ?64 /	GEN	1261
6738	50	47		B	TUF	7	4	1472	B T28		1261
6739	50	48	HOPE	FBCEQ	MESUR,OP,&,-	7				MACRO	
6740			HOPE	BCE	MESUR, OP, &	7	8	1476	B U10 ?64 &	GEN	1262
6741				BCE	MESUR, OP, -	7	8	1484	B U10 ?64 -	GEN	1262
6742	50	49		B	TUF	7	4	1492	B T28		1262
6743	50	50	* DELTA FOUND IN MIDDLE OF LARGE STRING								
6744	50	51	CANU	MCW	OP,*&8	7	7	1496	M ?64 V10		1262
6745	50	52		BCE	SWAP,HLDOP,0	7	8	1503	B V75 R66 0		1262
6746	50	53		FBCEQ	HOPE2,HLDOP,&,-	7				MACRO	
6747				BCE	HOPE2, HLDOP, &	7	8	1511	B V55 R66 &	GEN	1263
6748				BCE	HOPE2, HLDOP, -	7	8	1519	B V55 R66 -	GEN	1263
6749	50	54	CKND	BCE	OUTPT,1&X2,}	7	8	1527	B X33 0!1 }	GMARK	1263
6750	50	55		BW	TUF,PRTSW	7	8	1535	V T28 R36 1		1263
6751	50	56		BW	ADD3,1&X2	7	8	1543	V 948 0!1 1		1264
6752	50	57		B	TUF	7	4	1551	B T28		1264
6753	50	58	HOPE2	FBCEQ	SWAP,OP,&,-	7				MACRO	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6754			HOPE2	BCE	SWAP, OP, &	7	8	1555	B V75 ?64 &	GEN	1264
6755				BCE	SWAP, OP, -	7	8	1563	B V75 ?64 -	GEN	1264
6756	50	59		B	CKND	7	4	1571	B V27		1264
6757	50	60	* SHIFT MIDDLE DELTA TO FRONT OF STRING								
6758	50	61	SWAP	BCE	TUF,OP,@	7	8	1575	B T28 ?64 @		1265
6759	50	62		BW	KWM,PRTSW	7	8	1583	V T79 R36 1		1265
6760	50	63		C	0&X2,BLK4	7	7	1591	C 0!0 ?45		1265
6761	50	64		SAR	X3	7	4	1598	Q 099		1265
6762	50	65		MCW	0&X3,0&X2	7	7	1602	M 0?0 0!0		1265
6763	50	66		SBR	X2	7	4	1609	H 094		1265
6764	50	67		BCE	NEG2,OP,-	7	8	1613	B W44 ?64 -		1266
6765	50	68		MCW	OP,0&X2	7	7	1621	M ?64 0!0		1266
6766	50	69		MCW	RIGHT	7	4	1628	M ?88		1266
6767	50	70		C	0&X2	7	4	1632	C 0!0		1266
6768	50	71		SBR	X2	7	4	1636	H 094		1266
6769	50	72		B	BLKOP	7	4	1640	B 901		1266
6770	50	73	NEG2	LCA	@&@,0&X2	7	7	1644	L ?09 0!0		1266
6771	50	74		SBR	X2	7	4	1651	H 094		1267
6772	50	75		SW	PRTSW	7	4	1655	, R36		1267
6773	50	76		B	NEG3	7	4	1659	B S69		1267
6774	50	77	FIRST	B	CVTDL	7	4	1663	B P58		1267
6775	50	78		DCW	RIGHT	7	3	1669	?88		1267
6776	50	79		MCW	RIGHT,MAXDL#3	7	7	1670	M ?88 ?21		1267
6777	50	80		MCW	CVT3,CURDL	7	7	1677	M ?91 R72		1267
6778	50	81		A	&1,CURDL	7	7	1684	A R73 R72		1268
6779	50	82		B	D2	7	4	1691	B 997		1268
6780	50	83	FST1	LCA	HLD35,0&X3	7	7	1695	L ?08 0?0		1268
6781	50	84		SBR	X2	7	4	1702	H 094		1268
6782	50	85		LCA	OP	7	4	1706	L ?64		1268
6783	50	86		SBR	X3	7	4	1710	H 099		1268
6784	50	87		CW	1&X3	7	4	1714	) 0?1		1268
6785	50	88		LCA	LEFT,0&X3	7	7	1718	L ?63 0?0		1269
6786	50	89		LCA	GM1	7	4	1725	L K40		1269
6787	50	90		B	BLKOP	7	4	1729	B 901		1269
6788	50	91	* ALL OPTIMIZATION HAS TAKEN PLACE - OUTPUT STATEMENT								
6789	50	92	OUTPT	MCW	HEX1,X1	7	7	1733	M R65 089		1269
6790	50	93		SBR	HEX2#3,0&X2	7	7	1740	H ?24 0!0		1269
6791	50	94		BCE	NOPTM,2&X2,, IF STATEMENT	7	8	1747	B Y87 0!2 ,		1269
6792	50	95		BCE	NOPTM,MAXDL-2,< 12-6-8	7	8	1755	B Y87 ?19 <		1270
6793	50	96		BCE	NOPTM,0&X2,\$	7	8	1763	B Y87 0!0 \$		1270
6794	50	97		BCE	NOPTM,BOP,\$	7	8	1771	B Y87 ?63 \$		1270
6795	50	98		BWZ	CKFIX,BOP-1,K	7	8	1779	V Y07 ?62 K		1270
6796	50	99		BWZ	NOPTM,AOP-1,K	7	8	1787	V Y87 ?87 K		1271
6797	51	00		BWZ	NOPTM,AOP-1,S	7	8	1795	V Y87 ?87 S		1271
6798	51	01		B	OPTM	7	4	1803	B Y23		1271
6799	51	02	CKFIX	BWZ	NOPTM,AOP-1,2	7	8	1807	V Y87 ?87 2		1271
6800	51	03		BWZ	NOPTM,AOP-1,B	7	8	1815	V Y87 ?87 B		1271
6801	51	04	* GENERATE INLINE CODING								
6802	51	05	OPTM	B	NOPTM	7	4	1823	B Y87		1272
6803	51	06		LCA	BOP	7	4	1827	L ?63		1272

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6804	51	07		LCA	AOP	7	4	1831	L ?88		1272
6805	51	08		LCA	@L@	7	4	1835	L ?25		1272
6806	51	09		SBR	X3	7	4	1839	H 099		1272
6807	51	10		CW	2&X3,5&X3	7	7	1843	) 0?2 0?5		1272
6808	51	11		MZ	*-4,3&X3	7	7	1850	Y Y52 0?3		1272
6809	51	12		MZ	*-4,6&X3	7	7	1857	Y Y59 0?6		1273
6810	51	13		SBR	X1,6&X1	7	7	1864	H 089 0 6		1273
6811	51	14		LCA	6&X2	7	4	1871	L 0!6		1273
6812	51	15		LCA		7	1	1875	L		1273
6813	51	16		SBR	X2,6&X2	7	7	1876	H 094 0!6		1273
6814	51	17		B	NUSTM	7	4	1883	B 871		1273
6815	51	18	* CANNOT GENERATE INLINE CODING								
6816	51	19	NOPTM	MCW	@01@,MAXDL	7	7	1887	M ?27 ?21		1273
6817	51	20		MCW	@001@,X3	7	7	1894	M ?30 099		1274
6818	51	21		MCW	@01@,DL2#2	7	7	1901	M ?27 ?32		1274
6819	51	22		SBR	X1,4&X1	7	7	1908	H 089 0 4		1274
6820	51	23		LCA	@B700@	7	4	1915	L ?36		1274
6821	51	24	CKZRO	BCE	PRODL,TABLE&X3,0	7	8	1919	B Z63 KD1 0		1274
6822	51	25	DECR	A	&1,DL2	7	7	1927	A R73 ?32		1275
6823	51	26		MCW	DL2,MAXDL	7	7	1934	M ?32 ?21		1275
6824	51	27		MZ	DL2-1,MAXDL	7	7	1941	Y ?31 ?21		1275
6825	51	28		A	&1,X3	7	7	1948	A R73 099		1275
6826	51	29		SW	PRTSW	7	4	1955	, R36		1275
6827	51	30		B	CKZRO	7	4	1959	B Z19		1275
6828	51	31	PRODL	LCA	@#@,4&X1	7	7	1963	L ?37 0 4		1276
6829	51	32		LCA	MAXDL	7	4	1970	L ?21		1276
6830	51	33		CW	4&X1	7	4	1974	) 0 4		1276
6831	51	34		C	0&X1,@B700@	7	7	1978	C 0 0 ?36		1276
6832	51	35		BE	*&5	7	5	1985	B Z94 S		1276
6833	51	36		CW	1&X1	7	4	1990	) 0 1		1276
6834	51	37		LCA	GM1,1&X2	7	7	1994	L K40 0!1		1276
6835	51	38	CX2	C	0&X2	7	4	2001	C 0!0		1277
6836	51	39		SAR	X2	7	4	2005	Q 094		1277
6837	51	40		BCE	KWM2,0&X2,#	7	8	2009	B J39 0!0 #		1277
6838	51	41		BCE	SUB3,1&X2,\$	7	8	2017	B J47 0!1 \$		1277
6839	51	42		MZ	2&X2,2&X1	7	7	2025	Y 0!2 0 2		1277
6840	51	43	BMPX1	SBR	X1,4&X1	7	7	2032	H 089 0 4		1277
6841	51	44	* STRING TO OUTPUT AREA								
6842	51	45	PMOV	MCM	1&X2,1&X1	7	7	2039	P 0!1 0 1		1278
6843	51	46		MN		7	1	2046	D		1278
6844	51	47		SBR	X1	7	4	2047	H 089		1278
6845	51	48		MCM	1&X2	7	4	2051	P 0!1		1278
6846	51	49		MN		7	1	2055	D		1278
6847	51	50		SAR	X2	7	4	2056	Q 094		1278
6848	51	51		BCE	PMOV,0&X2,	7	8	2060	B !39 0!0		1278
6849	51	52		C	0&X2	7	4	2068	C 0!0		1279
6850	51	53		SAR	X2	7	4	2072	Q 094		1279
6851	51	54		MCW	X3,HEX3#3	7	7	2076	M 099 ?40		1279
6852	51	55		MCW	@ @,0&X1	7	7	2083	M ?41 0 0		1279
6853	51	56		LCA	0&X2	7	4	2090	L 0!0		1279

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6854	51	57		SBR	X3	7	4	2094	H 099		1279
6855	51	58		CW	0&X1,1&X3	7	7	2098	) 0 0 0?1		1279
6856	51	59		C	0&X2	7	4	2105	C 0!0		1280
6857	51	60		SAR	X3	7	4	2109	Q 099		1280
6858	51	61		BCE	EOSTR,0&X3,}	7	8	2113	B J58 0?0 }	GMARK	1280
6859	51	62		SBR	X2,0&X3	7	7	2121	H 094 0?0		1280
6860	51	63		MCW	HEX3,X3	7	7	2128	M ?40 099		1280
6861	51	64		B	DECR	7	4	2135	B Z27		1280
6862	51	65	KWM2	CW	1&X2	7	4	2139	) 0!1		1280
6863	51	66		B	CX2	7	4	2143	B !01		1281
6864	51	67	SUB3	MZ	3&X2,2&X1	7	7	2147	Y 0!3 0 2		1281
6865	51	68		B	BMPX1	7	4	2154	B !32		1281
6866	51	69	* ALL OF STATEMENT TO OUTPUT AREA								
6867	51	70	EOSTR	C	0&X1,BLK4#4	7	7	2158	C 0 0 ?45		1281
6868	51	71		SAR	X1	7	4	2165	Q 089		1281
6869	51	72		LCA	@ @,0&X1	7	7	2169	L ?41 0 0		1281
6870	51	73		MCW	0&X2	7	4	2176	M 0!0		1281
6871	51	74		MCW	HEX2,X2	7	7	2180	M ?24 094		1282
6872	51	75		BW	DOCOD,6&X2	7	8	2187	V K17 0!6 1		1282
6873	51	76		SW	3&X2	7	4	2195	, 0!3		1282
6874	51	77		SBR	X1,9&X1	7	7	2199	H 089 0 9		1282
6875	51	78		LCA	11&X2	7	4	2206	L 0J1		1282
6876	51	79		SBR	X2,11&X2	7	7	2210	H 094 0J1		1282
6877	51	80	DOCOD	SBR	X1,6&X1	7	7	2217	H 089 0 6		1283
6878	51	81		LCA	6&X2	7	4	2224	L 0!6		1283
6879	51	82		LCA		7	1	2228	L		1283
6880	51	83		SBR	X2,6&X2	7	7	2229	H 094 0!6		1283
6881	51	84		B	NUSTM	7	4	2236	B 871		1283
6882	51	85	GM1	DC	@} @	7	1	2240		GMARK	1283
6883	51	86	TABLE	DA	1X332,C	7		2241	2572		1283
6884	51	87	TBLR	EQU	*	7		2572			
6885	51	88	* GETS OPERAND LEFT, OPERATOR, OPERAND RIGHT								
6886	51	89	FIX	SBR	FIXT&3	7	4	2573	H P27		1292
6887	51	90		BCE	SUB1,1&X2,\$	7	8	2577	B P28 0!1 \$		1292
6888	51	91		LCA	3&X2,LEFT#18	7	7	2585	L 0!3 ?63		1292
6889	51	92		MCW	4&X2,OP#1	7	7	2592	M 0!4 ?64		1293
6890	51	93		SBR	X2,4&X2	7	7	2599	H 094 0!4		1293
6891	51	94		BW	*&5,MIDSW	7	8	2606	V 0!8 ?18 1		1293
6892	51	95	CW5	CW	0	7	4	2614	) 000		1293
6893	51	96		SW	MIDSW	7	4	2618	, ?18		1293
6894	51	97		BW	UNARY,1&X2	7	8	2622	V 072 0!1 1		1293
6895	51	98		SW	1&X2	7	4	2630	, 0!1		1294
6896	51	99		SBR	CW&3,1&X2	7	7	2634	H P23 0!1		1294
6897	52	00		MN	0&X2,BCE3&7	7	7	2641	D 0!0 062		1294
6898	52	01		MZ	0&X2,BCE3&7	7	7	2648	Y 0!0 062		1294
6899	52	02	BCE3	BCE	ISTWO,@&-*@.#@,0	7	8	2655	B 083 ?70 0		1294
6900	52	03		CHAIN	5	7				MACRO	
6901				BCE		7	1	2663	B	GEN	1294
6902				BCE		7	1	2664	B	GEN	1294
6903				BCE		7	1	2665	B	GEN	1295



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6904				BCE		7	1	2666	B	GEN	1295
6905				BCE		7	1	2667	B	GEN	1295
6906	52	04		SW	PRTSW	7	4	2668	, R36		1295
6907	52	05	UNARY	LCA	@***@,RIGHT	7	7	2672	L ?12 ?88		1295
6908	52	06		B	FIXT	7	4	2679	B P24		1295
6909	52	07	ISTWO	BCE	SUB1,1&X2,\$	7	8	2683	B P28 0!1 \$		1295
6910	52	08		LCA	3&X2,RIGHT#18	7	7	2691	L 0!3 ?88		1296
6911	52	09		SBR	X2,3&X2	7	7	2698	H 094 0!3		1296
6912	52	10		BW	CW,1&X2	7	8	2705	V P20 0!1 1		1296
6913	52	11		SW	1&X2,PRTSW	7	7	2713	, 0!1 R36		1296
6914	52	12	CW	CW	0	7	4	2720	) 000		1296
6915	52	13	FIXT	B	0	7	4	2724	B 000		1296
6916	52	14	SUB1	SBR	SUBXT&3	7	4	2728	H P57		1297
6917	52	15		SBR	X2,8&X2	7	7	2732	H 094 0!8		1297
6918	52	16		BCE	SUBXT,3&X2,\$	7	8	2739	B P54 0!3 \$		1297
6919	52	17		SBR	X2,6&X2	7	7	2747	H 094 0!6		1297
6920	52	18	SUBXT	B	0	7	4	2754	B 000		1297
6921	52	19	* CONVERTS ANY DELTA NUMBER TO THREE CHARACTERS								
6922	52	20	CVTDL	SBR	X1	7	4	2758	H 089		1297
6923	52	21		SBR	CVTXT&3,3&X1	7	7	2762	H Q36 0!3		1298
6924	52	22		MCW	2&X1,X1	7	7	2769	M 0!2 089		1298
6925	52	23		MN	0&X1,CVT3#3	7	7	2776	D 0!0 ?91		1298
6926	52	24		MN		7	1	2783	D		1298
6927	52	25		MCW	@0@	7	4	2784	M ?92		1298
6928	52	26		BWZ	CVTXT,0&X1,2	7	8	2788	V Q33 0!0 2		1298
6929	52	27		A	&100,CVT3	7	7	2796	A ?95 ?91		1299
6930	52	28		BWZ	CVTXT,0&X1,S	7	8	2803	V Q33 0!0 S		1299
6931	52	29		A	&100,CVT3	7	7	2811	A ?95 ?91		1299
6932	52	30		BWZ	CVTXT,0&X1,K	7	8	2818	V Q33 0!0 K		1299
6933	52	31		A	&100,CVT3	7	7	2826	A ?95 ?91		1299
6934	52	32	CVTXT	B	0	7	4	2833	B 000		1300
6935	52	33	* FINDS TEMP TO BE OPTIMIZED								
6936	52	34	GETDL	SBR	GDLXT&3	7	4	2837	H Q73		1300
6937	52	35		SBR	X3,0&X2	7	7	2841	H 099 0!0		1300
6938	52	36		MCW	CURDL,X1	7	7	2848	M R72 089		1300
6939	52	37		BW	GETWM,PRTSW	7	8	2855	V Q90 R36 1		1300
6940	52	38	CMP2	C	X1,CVT3	7	7	2863	C 089 ?91		1300
6941	52	39	GDLXT	BE	0	7	5	2870	B 000 S		1301
6942	52	40		BCE	ADD1,TABLE&X1,1	7	8	2875	B R17 KU1 1		1301
6943	52	41		A	@I99@,X1	7	7	2883	A R69 089		1301
6944	52	42	GETWM	BW	GOTWM,2&X3	7	8	2890	V R06 0?2 1		1301
6945	52	43		SBR	X3	7	4	2898	H 099		1301
6946	52	44		B	GETWM	7	4	2902	B Q90		1301
6947	52	45	GOTWM	SBR	X3,1&X3	7	7	2906	H 099 0?1		1302
6948	52	46		B	CMP2	7	4	2913	B Q63		1302
6949	52	47	ADD1	A	@I99@,X1	7	7	2917	A R69 089		1302
6950	52	48		B	CMP2	7	4	2924	B Q63		1302
6951	52	49	CW2	CW	1&X3	7	4	2928	) 0?1		1302
6952	52	50		B	CKRT	7	4	2932	B  70		1302
6953	52	51	PRTSW	DC	#1	7	1	2936			1302

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6954	52	52	FENDX	FENDX	C,,,,,SYSGM, ARITH 5	7				MACRO	
6955			FENDX	BSS	333,C	7	5	2937	B 333 C	GEN	1302
6956				SBR	TCLEAR,SYSGM	7	7	2942	H 710 A03	GEN	1303
6957				LCA	@ARITH 5@,110	7	7	2949	L A02 110	GEN	1303
6958				B	MONTER	7	4	2956	B 700	GEN	1303
6959	52	53		LTORG	*	7			2960		
			SAVX37	DCW	#03	7	3	2962		AREA	1303
			HEX1 7	DCW	#03	7	3	2965		AREA	1303
			HLDOP7	DCW	#01	7	1	2966		AREA	1303
				DCW	@I99@	7	3	2969		LIT	1303
			CURDL7	DCW	#03	7	3	2972		AREA	1304
				DCW	&1	7	1	2973		LIT	1304
			HLD357	DCW	#35	7	35	3008		AREA	1304
				DCW	@&@	7	1	3009		LIT	1305
				DCW	@***@	7	3	3012		LIT	1305
				DCW	@N@	7	1	3013		LIT	1305
				DCW	@&-*@@	7	4	3017		LIT	1305
			MIDSW7	DCW	#01	7	1	3018		AREA	1305
			MAXDL7	DCW	#03	7	3	3021		AREA	1305
			HEX2 7	DCW	#03	7	3	3024		AREA	1305
				DCW	@L@	7	1	3025		LIT	1306
				DCW	@01@	7	2	3027		LIT	1306
				DCW	@001@	7	3	3030		LIT	1306
			DL2 7	DCW	#02	7	2	3032		AREA	1306
				DCW	@B700@	7	4	3036		LIT	1306
				DCW	@#@	7	1	3037		LIT	1306
			HEX3 7	DCW	#03	7	3	3040		AREA	1306
				DCW	@ @	7	1	3041		LIT	1307
			BLK4 7	DCW	#04	7	4	3045		AREA	1307
			LEFT 7	DCW	#18	7	18	3063		AREA	1307
			OP 7	DCW	#01	7	1	3064		AREA	1307
				DCW	@&-*@.#@	7	6	3070		LIT	1307
			RIGHT7	DCW	#18	7	18	3088		AREA	1308
			CVT3 7	DCW	#03	7	3	3091		AREA	1308
				DCW	@0@	7	1	3092		LIT	1308
				DCW	&100	7	3	3095		LIT	1308
				DCW	@ARITH 5@	7	7	3102		LIT	1308
6960	52	54	AOP	EQU	RIGHT	7		3088			
6961	52	55	BOP	EQU	LEFT	7		3063			
6962	52	56	SYSGM	DCW	@}@	7	1	3103		GMARK	1308
6963	52	57		ORG	*&50	7			3154		
6964	52	58	NDRITH	EQU	*	7		3153			
6965	52	59		XFR	START	7			B 838		1309

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
6966	52	60		JOB	ARITH PHASE FIVE	7					
6967	52	61		FBEGN	ARITH 5,X1,,X2,,X3,,Y	7				MACRO	
6968				SFX	Y	Y				GEN	
6969		110		DCW	@ARITH 5@	Y	7	0110		GEN	1312
6970			X1	EQU	089	Y		0089		GEN	
6971			X2	EQU	094	Y		0094		GEN	
6972			X3	EQU	099	Y		0099		GEN	
6973	52	62		ORG	XBEGIN	Y			0838		
6974	52	63	START	BCE	NOARI,X2,.	Y	8	0838	B U99 094 .		1313
6975	52	64		C	0&X2	Y	4	0846	C 0!0		1313
6976	52	65		SAR	X2	Y	4	0850	Q 094		1313
6977	52	66		SBR	SAVX3#3	Y	4	0854	H 089		1313
6978	52	67		C	0&X1	Y	4	0858	C 0!0		1313
6979	52	68		SAR	X1	Y	4	0862	Q 089		1313
6980	52	69		* BEGINNING OF PROCESSING OF EACH STATEMENT							
6981	52	70	NUSTM	MCW	0&X1, CODE	Y	7	0866	M 0!0 086		1313
6982	52	71		MCW		Y	1	0873	M		1314
6983	52	72		BCE	MVDWN, CODE-3, E	Y	8	0874	B 894 083 E		1314
6984	52	73		BCE	*&5, CODE-3, R	Y	8	0882	B 894 083 R		1314
6985	52	74		B	FENDX	Y	4	0890	B U78		1314
6986	52	75	MVDWN	MVDWN	X1, X2	Y				MACRO	
6987			MVDWN	LCA	0&X1, 0&X2	Y	7	0894	L 0!0 0!0	GEN	1314
6988				SAR	X1	Y	4	0901	Q 089	GEN	1314
6989				C	0&X2	Y	4	0905	C 0!0	GEN	1314
6990				SAR	X2	Y	4	0909	Q 094	GEN	1315
6991	52	76		LCA	1&X2, 2&X2	Y	7	0913	L 0!1 0!2		1315
6992	52	77		SBR	X2	Y	4	0920	H 094		1315
6993	52	78		CW	MODSW#1	Y	4	0924	) 090		1315
6994	52	79		BCE	IFTYP, 2&X1, E	Y	8	0928	B V22 0!2 E		1315
6995	52	80	CKXF	MVDWN	X1, X2	Y				MACRO	
6996			CKXF	LCA	0&X1, 0&X2	Y	7	0936	L 0!0 0!0	GEN	1315
6997				SAR	X1	Y	4	0943	Q 089	GEN	1315
6998				C	0&X2	Y	4	0947	C 0!0	GEN	1316
6999				SAR	X2	Y	4	0951	Q 094	GEN	1316
7000	52	81		SBR	X3, 0&X1	Y	7	0955	H 099 0!0		1316
7001	52	82		SBR	HEX3#3	Y	4	0962	H 093		1316
7002	52	83		BCE	EOSTR, 0&X1, } GM	Y	8	0966	B U21 0!0 } GMARK		1316
7003	52	84		* GENERATE FIX OR FLOAT FUNCTION IF LEFT SIDE AND RIGHT							
7004	52	85		* SIDE ARE NOT OF SAME MODE							
7005	52	86	NEXT	MN	0&X3, BCE5&7	Y	7	0974	D 0?0 999		1316
7006	52	87		MZ	0&X3, BCE5&7	Y	7	0981	Y 0?0 999		1317
7007	52	88		SAR	X3	Y	4	0988	Q 099		1317
7008	52	89	BCE5	BCE	GOTSQ, @&-@* .#@, 0	Y	8	0992	B !09 099 0		1317
7009	52	90		CHAIN	5	Y				MACRO	
7010				BCE		Y	1	1000	B	GEN	1317
7011				BCE		Y	1	1001	B	GEN	1317
7012				BCE		Y	1	1002	B	GEN	1317
7013				BCE		Y	1	1003	B	GEN	1317
7014				BCE		Y	1	1004	B	GEN	1318
7015	52	91		B	NEXT	Y	4	1005	B 974		1318

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7016	52	92	GOTSQ	BCE	WORRY,1&X3,.	Y	8	1009	B /09 0?1 .		1318
7017	52	93		MZ	4&X3,OPMD#1	Y	7	1017	Y 0?4 P00		1318
7018	52	94		BCE	SUB5,2&X3,\$	Y	8	1024	B /90 0?2 \$		1318
7019	52	95		MZ	3&X3,OPMD	Y	7	1032	Y 0?3 P00		1318
7020	52	96	BMP4	SBR	X3,4&X3	Y	7	1039	H 099 0?4		1319
7021	52	97	CMP5	C	X3,HEX3	Y	7	1046	C 099 093		1319
7022	52	98		BE	SCNEQ	Y	5	1053	B S16 S		1319
7023	52	99		SBR	X3,1&X3	Y	7	1058	H 099 0?1		1319
7024	53	00		FBCEQ	MODCH,0&X3,F,X	Y				MACRO	
7025				BCE	MODCH, 0&X3, F	Y	8	1065	B  85 0?0 F GEN		1319
7026				BCE	MODCH, 0&X3, X	Y	8	1073	B  85 0?0 X GEN		1320
7027	53	01		B	CMP5	Y	4	1081	B  46		1320
7028	53	02	MODCH	BW	CW1,MODSW	Y	8	1085	V /01 090 1		1320
7029	53	03		SW	MODSW	Y	4	1093	, 090		1320
7030	53	04		B	CMP5	Y	4	1097	B  46		1320
7031	53	05	CW1	CW	MODSW	Y	4	1101	) 090		1320
7032	53	06		B	CMP5	Y	4	1105	B  46		1320
7033	53	07	WORRY	SBR	BMPUM&6,0&X3	Y	7	1109	H /41 0?0		1321
7034	53	08		BCE	GRIEF,0&X3,\$	Y	8	1116	B /54 0?0 \$		1321
7035	53	09		SBR	X3	Y	4	1124	H 099		1321
7036	53	10	SNDUM	MZ	0&X3,OPMD	Y	7	1128	Y 0?0 P00		1321
7037	53	11	BMPUM	SBR	X3,0	Y	7	1135	H 099 000		1321
7038	53	12		BCE	SUB5,2&X3,\$	Y	8	1142	B /90 0?2 \$		1322
7039	53	13		B	BMP4	Y	4	1150	B  39		1322
7040	53	14	GRIEF	C	0&X3,BLK8	Y	7	1154	C 0?0 Q66		1322
7041	53	15		SAR	X3	Y	4	1161	Q 099		1322
7042	53	16		BCE	SNDUM,0&X3,\$	Y	8	1165	B /28 0?0 \$		1322
7043	53	17		B	DUMMY	Y	1	1173	B		1322
7044	53	18		B		Y	1	1174	B		1322
7045	53	19		C	0&X3,BLK6	Y	7	1175	C 0?0 Q72		1323
7046	53	20		SAR	X3	Y	4	1182	Q 099		1323
7047	53	21		B	SNDUM	Y	4	1186	B /28		1323
7048	53	22	SUB5	SBR	X3,12&X3	Y	7	1190	H 099 0A2		1323
7049	53	23		BCE	CMP5,0&X3,\$	Y	8	1197	B  46 0?0 \$		1323
7050	53	24		SBR	X3,6&X3	Y	7	1205	H 099 0?6		1323
7051	53	25		B	CMP5	Y	4	1212	B  46		1324
7052	53	26	SCNEQ	BCE	GOTEQ,0&X3,#	Y	8	1216	B S32 0?0 #		1324
7053	53	27		SBR	X3	Y	4	1224	H 099		1324
7054	53	28		B	SCNEQ	Y	4	1228	B S16		1324
7055	53	29	GOTEQ	MCW	0&X3,HLD18#18	Y	7	1232	M 0?0 P18		1324
7056	53	30		BCE	SUB1,HLD18-1,\$	Y	8	1239	B 057 P17 \$		1324
7057	53	31		MZ	HLD18-2,FSTMD#1	Y	7	1247	Y P16 P19		1325
7058	53	32	NOWOP	BWZ	CKFIX,FSTMD,S	Y	8	1254	V T40 P19 S		1325
7059	53	33		BWZ	CKFIX,FSTMD,K	Y	8	1262	V T40 P19 K		1325
7060	53	34		BWZ	CKSWF,OPMD,2	Y	8	1270	V T16 P00 2		1325
7061	53	35		BWZ	CKSWF,OPMD,B	Y	8	1278	V T16 P00 B		1325
7062	53	36		BW	NOCVT,MODSW	Y	8	1286	V T82 090 1		1326
7063	53	37	MKFLT	MCW	@F@,0&X2	Y	7	1294	M P20 0!0		1326
7064	53	38		SBR	X2	Y	4	1301	H 094		1326
7065	53	39		CW	1&X2,XFLTFU	Y	7	1305	) 0!1 125		1326

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7066	53	40		B	NOCVT	Y	4	1312	B T82		1326
7067	53	41	CKSWF	BW	MKFLT,MODSW	Y	8	1316	V S94 090 1		1326
7068	53	42		B	NOCVT	Y	4	1324	B T82		1327
7069	53	43	CKSWX	BW	MKFIX,MODSW	Y	8	1328	V T64 090 1		1327
7070	53	44		B	NOCVT	Y	4	1336	B T82		1327
7071	53	45	CKFIX	BWZ	CKSWX,OPMD,S	Y	8	1340	V T28 P00 S		1327
7072	53	46		BWZ	CKSWX,OPMD,K	Y	8	1348	V T28 P00 K		1327
7073	53	47		BW	NOCVT,MODSW	Y	8	1356	V T82 090 1		1328
7074	53	48	MKFIX	MCW	@X@,0&X2	Y	7	1364	M P21 0!0		1328
7075	53	49		SBR	X2	Y	4	1371	H 094		1328
7076	53	50		CW	1&X2,XFIXFU	Y	7	1375	) 0!1 124		1328
7077	53	51	SCAN	EQU	*&1	Y		1382			
7078	53	52	NOCVT	SBR	X3,0&X1	Y	7	1382	H 099 0 0		1328
7079	53	53	SCAN2	BCE	EXPXN,0&X1,.	Y	8	1389	B Y08 0 0 .		1329
7080	53	54		BCE	DIV,0&X1,@	Y	8	1397	B U63 0 0 @		1329
7081	53	55		BCE	EOSTR,0&X1,}	Y	8	1405	B U21 0 0 }	GMARK	1329
7082	53	56		SBR	X1	Y	4	1413	H 089		1329
7083	53	57		B	SCAN2	Y	4	1417	B T89		1329
7084	53	58	* END		OF STATEMENT ROUTINE						
7085	53	59	EOSTR	MVDWN	X3,X2	Y				MACRO	
7086			EOSTR	LCA	0&X3,0&X2	Y	7	1421	L 0?0 0!0	GEN	1329
7087				SAR	X3	Y	4	1428	Q 099	GEN	1330
7088				C	0&X2	Y	4	1432	C 0!0	GEN	1330
7089				SAR	X2	Y	4	1436	Q 094	GEN	1330
7090	53	60		BCE	*&5,1&X3,}	Y	8	1440	B U52 0?1 }	GMARK	1330
7091	53	61		B	EOSTR	Y	4	1448	B U21		1330
7092	53	62		SBR	X1,0&X3	Y	7	1452	H 089 0?0		1330
7093	53	63		B	NUSTM	Y	4	1459	B 866		1330
7094	53	64	* SUBSTITUTE / FOR @ AS DIVIDE SYMBOL								
7095	53	65	DIV	MCW	@/@,0&X1	Y	7	1463	M P22 0 0		1331
7096	53	66		SBR	X1	Y	4	1470	H 089		1331
7097	53	67		B	SCAN2	Y	4	1474	B T89		1331
7098	53	68	FENDX	SBR	X1,5&X1	Y	7	1478	H 089 0 5		1331
7099	53	69		MCW	SAVX3,X3	Y	7	1485	M 089 099		1331
7100	53	70		SBR	X3,2&X3	Y	7	1492	H 099 0?2		1331
7101	53	71	NOARI	FENDX	C,,,,,SYSGM,ARITH6	Y				MACRO	
7102			NOARI	BSS	333,C	Y	5	1499	B 333 C	GEN	1332
7103				SBR	TCLEAR,SYSGM	Y	7	1504	H 710 Q73	GEN	1332
7104				LCA	@ARITH6@,110	Y	7	1511	L P28 110	GEN	1332
7105				B	MONTER	Y	4	1518	B 700	GEN	1332
7106	53	72	* GENERATE IF EXITS								
7107	53	73	IFTYP	C	0&X1	Y	4	1522	C 0 0		1332
7108	53	74		SAR	X1	Y	4	1526	Q 089		1332
7109	53	75		MCW	9&X1,MINUS	Y	7	1530	M 0 9 N08		1332
7110	53	76		MCW	6&X1,ZERO	Y	7	1537	M 0 6 N00		1333
7111	53	77		MCW	3&X1,PLUS	Y	7	1544	M 0 3 M92		1333
7112	53	78		MZ	@K@,MINUS-1	Y	7	1551	Y P29 N07		1333
7113	53	79		MZ	@K@,ZERO-1	Y	7	1558	Y P29 M99		1333
7114	53	80		MZ	@K@,PLUS-1	Y	7	1565	Y P29 M91		1333
7115	53	81		MCW	PLUS,ELSE&3	Y	7	1572	M M92 M88		1334

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7116	53	82		LCA	BLK20#20,HLD20	Y	7	1579	L P49 M84		1334
7117	53	83		SBR	X3,HLD20-20	Y	7	1586	H 099 M64		1334
7118	53	84		C	PLUS,ZERO	Y	7	1593	C M92 N00		1334
7119	53	85		BE	PZ	Y	5	1600	B X79 S		1334
7120	53	86		C	ZERO,MINUS	Y	7	1605	C N00 N08		1335
7121	53	87		BE	MKPLS	Y	5	1612	B W42 S		1335
7122	53	88		SBR	X3,8&X3	Y	7	1617	H 099 0?8		1335
7123	53	89		MCW	IFZRO	Y	4	1624	M N04		1335
7124	53	90		MCW		Y	1	1628	M		1335
7125	53	91		LCA		Y	1	1629	L		1335
7126	53	92		C	PLUS,MINUS	Y	7	1630	C M92 N08		1335
7127	53	93		BE	MVLS	Y	5	1637	B W62 S		1336
7128	53	94	MKPLS	SBR	X3,8&X3	Y	7	1642	H 099 0?8		1336
7129	53	95		MCW	IFPLS	Y	4	1649	M M96		1336
7130	53	96		MCW		Y	1	1653	M		1336
7131	53	97		LCA		Y	1	1654	L		1336
7132	53	98		MCW	MINUS,ELSE&3	Y	7	1655	M N08 M88		1336
7133	53	99	MVLS	MCW	X3,HEX3	Y	7	1662	M 099 093		1336
7134	54	00		BWZ	*&5,CODE,2	Y	8	1669	V W81 086 2		1337
7135	54	01		B	*&9	Y	4	1677	B W89		1337
7136	54	02		BWZ	LSADD,CODE-2,2	Y	8	1681	V X03 084 2		1337
7137	54	03		MCW	CODE,X3	Y	7	1689	M 086 099		1337
7138	54	04		MCW	0&X3,CODE	Y	7	1696	M 0?0 086		1337
7139	54	05	LSADD	A	&1,CODE	Y	7	1703	A P50 086		1338
7140	54	06		MCW	ELSE&3,X3	Y	7	1710	M M88 099		1338
7141	54	07		C	0&X3,CODE	Y	7	1717	C 0?0 086		1338
7142	54	08		MCW	HEX3,X3	Y	7	1724	M 093 099		1338
7143	54	09		BE	NOBR	Y	5	1731	B X48 S		1338
7144	54	10	ALL3	SBR	X3,4&X3	Y	7	1736	H 099 0?4		1339
7145	54	11		MCW	ELSE&3	Y	4	1743	M M88		1339
7146	54	12		LCA		Y	1	1747	L		1339
7147	54	13	NOBR	MVDWN	X3,X2	Y				MACRO	
7148			NOBR	LCA	0&X3,0&X2	Y	7	1748	L 0?0 0!0	GEN	1339
7149				SAR	X3	Y	4	1755	Q 099	GEN	1339
7150				C	0&X2	Y	4	1759	C 0!0	GEN	1339
7151				SAR	X2	Y	4	1763	Q 094	GEN	1339
7152	54	14		BCE	CKXF,0&X3,	Y	8	1767	B 936 0?0		1340
7153	54	15		B	NOBR	Y	4	1775	B X48		1340
7154	54	16	PZ	C	PLUS,MINUS	Y	7	1779	C M92 N08		1340
7155	54	17		BE	ALL3	Y	5	1786	B X36 S		1340
7156	54	18		SBR	X3,8&X3	Y	7	1791	H 099 0?8		1340
7157	54	19		MCW	IFMNS	Y	4	1798	M N12		1340
7158	54	20		MCW		Y	1	1802	M		1340
7159	54	21		LCA		Y	1	1803	L		1341
7160	54	22		B	MVLS	Y	4	1804	B W62		1341
7161	54	23	* PROCESS	EXPONENTIATION							
7162	54	24	EXPN	SW	1&X1	Y	4	1808	, 0 1		1341
7163	54	25		BCE	XSUB,1&X1,\$	Y	8	1812	B N13 0 1 \$		1341
7164	54	26		LCA	3&X1,XPON#17	Y	7	1820	L 0 3 P67		1341
7165	54	27		MZ	2&X1,XPMOD#1	Y	7	1827	Y 0 2 P68		1341

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7166	54	28		SBR	HEX31#3,3&X1	Y	7	1834	H P71 0 3		1341
7167	54	29		C	HEX31,X3	Y	7	1841	C P71 099		1342
7168	54	30		BE	SKIP	Y	5	1848	B Y80 S		1342
7169	54	31		SW	4&X1	Y	4	1853	, 0 4		1342
7170	54	32	MVBAL	MVDWN	X3,X2	Y				MACRO	
7171			MVBAL	LCA	0&X3,0&X2	Y	7	1857	L 0?0 0!0	GEN	1342
7172				SAR	X3	Y	4	1864	Q 099	GEN	1342
7173				C	0&X2	Y	4	1868	C 0!0	GEN	1342
7174				SAR	X2	Y	4	1872	Q 094	GEN	1342
7175	54	33		CW	1&X2	Y	4	1876	) 0!1		1343
7176	54	34	SKIP	C	0&X1,BLK4#4	Y	7	1880	C 0 0 P75		1343
7177	54	35		SAR	X1	Y	4	1887	Q 089		1343
7178	54	36		BCE	BSUB,3&X1,\$	Y	8	1891	B N78 0 3 \$		1343
7179	54	37		MZ	2&X1,BMOD#1	Y	7	1899	Y 0 2 P76		1343
7180	54	38		SW	1&X1	Y	4	1906	, 0 1		1343
7181	54	39	LOAD	LCA	3&X1,BASE#17	Y	7	1910	L 0 3 P93		1344
7182	54	40		SAR	X1	Y	4	1917	Q 089		1344
7183	54	41		BWZ	FIXXP,XPMOD,S	Y	8	1921	V !77 P68 S		1344
7184	54	42		BWZ	FIXXP,XPMOD,K	Y	8	1929	V !77 P68 K		1344
7185	54	43		CW	XLOGFN,XXPNTL	Y	7	1937	) 119 120		1344
7186	54	44		CW	XCOMF1	Y	4	1944	) 117		1344
7187	54	45	* PROCESS FLOATING EXPONENTIATION								
7188	54	46		BWZ	FLT,BMOD,2	Y	8	1948	V !32 P76 2		1345
7189	54	47		BWZ	FLT,BMOD,B	Y	8	1956	V !32 P76 B		1345
7190	54	48		BWZ	*&5,CODE,2	Y	8	1964	V Z76 O86 2		1345
7191	54	49		B	*&9	Y	4	1972	B Z84		1345
7192	54	50		BWZ	FTMSG,CODE-2,2	Y	8	1976	V Z98 O84 2		1345
7193	54	51		MCW	CODE,X3	Y	7	1984	M O86 099		1346
7194	54	52		MCW	0&X3,CODE	Y	7	1991	M 0?0 O86		1346
7195	54	53	FTMSG	FTMSG	30, FIX TO FLOAT POWER, CODE, 20	Y				MACRO	
7196			FTMSG	CS	332	Y	4	1998	/ 332	GEN	1346
7197				CS		Y	1	2002	/	GEN	1346
7198				SW	FAILSW	Y	4	2003	, 184	GEN	1346
7199				MN	CODE,224&20	Y	7	2007	D O86 244	GEN	1346
7200				MN		Y	1	2014	D	GEN	1346
7201				MN		Y	1	2015	D	GEN	1347
7202				MCW	@ERROR 30 - FIX TO FLOAT POWER, STATEMENT @	Y	4	2016	M Q34	GEN	1347
7203				W		Y	1	2020	2	GEN	1347
7204				BCV	*&5	Y	5	2021	B !30 @	GEN	1347
7205				B	*&3	Y	4	2026	B !32	GEN	1347
7206				CC	1	Y	2	2030	F 1	GEN	1347
7207	54	54	FLT	LCA	@E@,0&X2	Y	7	2032	L Q35 0!0		1347
7208	54	55		LCA	XPON	Y	4	2039	L P67		1348
7209	54	56		LCA	@G*@	Y	4	2043	L Q37		1348
7210	54	57		SBR	X2	Y	4	2047	H 094		1348
7211	54	58		CW	3&X2,1&X1	Y	7	2051	) 0!3 0!1		1348
7212	54	59		LCA	BASE,0&X2	Y	7	2058	L P93 0!0		1348
7213	54	60		SBR	X2	Y	4	2065	H 094		1348
7214	54	61		CW	1&X2	Y	4	2069	) 0!1		1348
7215	54	62		B	SCAN	Y	4	2073	B T82		1349

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7216	54	63	*	PROCESS	FIXED POINT EXPONENTIATION						
7217	54	64	FIXXP	BWZ	SWEAT,XPMOD,K	Y	8	2077	V K54 P68 K		1349
7218	54	65		BCE	SWEAT,XPON-2,< 12-6-8	Y	8	2085	B K54 P65 <		1349
7219	54	66		MCW	XPON,X3	Y	7	2093	M P67 099		1349
7220	54	67		MA	PLUSDF,X3	Y	7	2100	# 160 099		1349
7221	54	68		C	@3@,0&X3	Y	7	2107	C Q38 0?0		1350
7222	54	69		BH	SWEAT	Y	5	2114	B K54 U		1350
7223	54	70		LCA	BASE,0&X2	Y	7	2119	L P93 0!0		1350
7224	54	71		LCA	@*@	Y	4	2126	L Q39		1350
7225	54	72		SBR	X2	Y	4	2130	H 094		1350
7226	54	73		SBR	SAV2#3	Y	4	2134	H Q42		1350
7227	54	74		CW	1&X2,2&X2	Y	7	2138	) 0!1 0!2		1350
7228	54	75		LCA	BASE,0&X2	Y	7	2145	L P93 0!0		1351
7229	54	76		SBR	X2	Y	4	2152	H 094		1351
7230	54	77		CW	1&X2	Y	4	2156	) 0!1		1351
7231	54	78		BCE	HUH,0&X3,0	Y	8	2160	B K18 0?0 0		1351
7232	54	79		BCE	HUH2,0&X3,1	Y	8	2168	B K36 0?0 1		1351
7233	54	80		BCE	SCAN,0&X3,2	Y	8	2176	B T82 0?0 2		1351
7234	54	81		LCA	@*@,0&X2	Y	7	2184	L Q39 0!0		1352
7235	54	82		SBR	X2	Y	4	2191	H 094		1352
7236	54	83		CW	1&X2	Y	4	2195	) 0!1		1352
7237	54	84		LCA	BASE,0&X2	Y	7	2199	L P93 0!0		1352
7238	54	85		SBR	X2	Y	4	2206	H 094		1352
7239	54	86		CW	1&X2	Y	4	2210	) 0!1		1352
7240	54	87		B	SCAN	Y	4	2214	B T82		1352
7241	54	88	HUH	MCW	SAV2,X3	Y	7	2218	M Q42 099		1353
7242	54	89		MCW	@/@,1&X3	Y	7	2225	M P22 0?1		1353
7243	54	90		B	SCAN	Y	4	2232	B T82		1353
7244	54	91	HUH2	MCW	SAV2,X2	Y	7	2236	M Q42 094		1353
7245	54	92		SBR	X2,1&X2	Y	7	2243	H 094 0!1		1353
7246	54	93		B	SCAN	Y	4	2250	B T82		1353
7247	54	94	SWEAT	CW	XLOGFN,XXPNTL	Y	7	2254	) 119 120		1354
7248	54	95		CW	XCOMF1,XFLTFU	Y	7	2261	) 117 125		1354
7249	54	96		BWZ	CTU1,BMOD,2	Y	8	2268	V L21 P76 2		1354
7250	54	97		BWZ	CTU1,BMOD,B	Y	8	2276	V L21 P76 B		1354
7251	54	98		LCA	@X@,0&X2	Y	7	2284	L P21 0!0		1354
7252	54	99		SBR	X2	Y	4	2291	H 094		1355
7253	55	00		CW	0&X2,XFIXFU	Y	7	2295	) 0!0 124		1355
7254	55	01		LCA	XEXPON,0&X2	Y	7	2302	L 157 0!0		1355
7255	55	02		LCA	@&@	Y	4	2309	L Q43		1355
7256	55	03		SBR	X2	Y	4	2313	H 094		1355
7257	55	04		CW	2&X2	Y	4	2317	) 0!2		1355
7258	55	05	CTU1	LCA	@E@,0&X2	Y	7	2321	L Q35 0!0		1355
7259	55	06		LCA	@F*<4?@ F,*,12-6-8,4,12-0	Y	4	2328	L Q48		1356
7260	55	07		LCA	XPON	Y	4	2332	L P67		1356
7261	55	08		SBR	X2	Y	4	2336	H 094		1356
7262	55	09		CW	1&X2	Y	4	2340	) 0!1		1356
7263	55	10		C	0&X1,BLK4	Y	7	2344	C 0!0 P75		1356
7264	55	11		SAR	X3	Y	4	2351	Q 099		1356
7265	55	12		BCE	FSUB,3&X3,\$	Y	8	2355	B 023 0?3 \$		1356



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7266	55	13	SWM	SW	1&X3	Y	4	2363	, 0?1		1357
7267	55	14		MVDWN	X1,X2	Y				MACRO	
7268				LCA	0&X1,0&X2	Y	7	2367	L 0 0 0!0	GEN	1357
7269				SAR	X1	Y	4	2374	Q 089	GEN	1357
7270				C	0&X2	Y	4	2378	C 0!0	GEN	1357
7271				SAR	X2	Y	4	2382	Q 094	GEN	1357
7272	55	15		CW	1&X2	Y	4	2386	) 0!1		1357
7273	55	16		LCA	@G @	Y	4	2390	L Q50		1357
7274	55	17		SBR	X2	Y	4	2394	H 094		1358
7275	55	18		BWZ	BSFLT,BMOD,2	Y	8	2398	V M25 P76 2		1358
7276	55	19		BWZ	BSFLT,BMOD,B	Y	8	2406	V M25 P76 B		1358
7277	55	20		LCA	@F@,0&X2	Y	7	2414	L P20 0!0		1358
7278	55	21		SBR	X2	Y	4	2421	H 094		1358
7279	55	22	BSFLT	LCA	BASE,0&X2	Y	7	2425	L P93 0!0		1358
7280	55	23		LCA	@<4?#@	Y	4	2432	L Q54		1359
7281	55	24		SBR	X2	Y	4	2436	H 094		1359
7282	55	25		CW	5&X2	Y	4	2440	) 0!5		1359
7283	55	26		C	0&X1,@B700@	Y	7	2444	C 0 0 Q58		1359
7284	55	27		BE	SCAN	Y	5	2451	B T82 S		1359
7285	55	28		CW	1&X2	Y	4	2456	) 0!1		1359
7286	55	29		B	SCAN	Y	4	2460	B T82		1359
7287	55	30		DCW	@ @	Y	1	2464			1360
7288	55	31	HLD20	DCW	#20	Y	20	2484			1360
7289	55	32	ELSE	B		Y	1	2485	B		1360
7290	55	33		DCW	#3	Y	3	2488			1360
7291	55	34		BWZ		Y	1	2489	V		1360
7292	55	35	PLUS	DCW	#3	Y	3	2492			1360
7293	55	36		DSA	277&X3	Y	3	2495	2G7		1360
7294	55	37	IFPLS	DC	@B@	Y	1	2496			1360
7295	55	38		BCE		Y	1	2497	B		1361
7296	55	39	ZERO	DCW	#3	Y	3	2500			1361
7297	55	40		DSA	280	Y	3	2503	280		1361
7298	55	41	IFZRO	DC	@0@	Y	1	2504			1361
7299	55	42		BWZ		Y	1	2505	V		1361
7300	55	43	MINUS	DCW	#3	Y	3	2508			1361
7301	55	44		DSA	277&X3	Y	3	2511	2G7		1361
7302	55	45	IFMNS	DC	@K@	Y	1	2512			1361
7303	55	46	XSUB	MZ	3&X1,XPMOD	Y	7	2513	Y 0 3 P68		1361
7304	55	47		SBR	X1,11&X1	Y	7	2520	H 089 0/1		1362
7305	55	48		BCE	GOTSB,0&X1,\$	Y	8	2527	B N42 0 0 \$		1362
7306	55	49		SBR	X1,6&X1	Y	7	2535	H 089 0 6		1362
7307	55	50	GOTSB	C	X1,X3	Y	7	2542	C 089 099		1362
7308	55	51		BE	*&5	Y	5	2549	B N58 S		1362
7309	55	52		SW	1&X1	Y	4	2554	, 0 1		1362
7310	55	53		LCA	0&X1,XPON	Y	7	2558	L 0 0 P67		1363
7311	55	54		SAR	X1	Y	4	2565	Q 089		1363
7312	55	55		BE	SKIP	Y	5	2569	B Y80 S		1363
7313	55	56		B	MVBAL	Y	4	2574	B Y57		1363
7314	55	57	BSUB	C	0&X1,BLK8#8	Y	7	2578	C 0 0 Q66		1363
7315	55	58		SAR	X3	Y	4	2585	Q 099		1363

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7316	55	59		BCE	GTSUB,1&X3,\$	Y	8	2589	B 008 0?1 \$		1363
7317	55	60		C	0&X3,BLK6	Y	7	2597	C 0?0 Q72		1364
7318	55	61		SAR	X3	Y	4	2604	Q 099		1364
7319	55	62	GTSUB	MZ	3&X3,BMOD	Y	7	2608	Y 0?3 P76		1364
7320	55	63		SW	1&X3	Y	4	2615	, 0?1		1364
7321	55	64		B	LOAD	Y	4	2619	B Z10		1364
7322	55	65	FSUB	C	0&X3,BLK8	Y	7	2623	C 0?0 Q66		1364
7323	55	66		SAR	X3	Y	4	2630	Q 099		1364
7324	55	67		BCE	SWM,1&X3,\$	Y	8	2634	B L63 0?1 \$		1365
7325	55	68		C	0&X3,BLK6#6	Y	7	2642	C 0?0 Q72		1365
7326	55	69		SAR	X3	Y	4	2649	Q 099		1365
7327	55	70		B	SWM	Y	4	2653	B L63		1365
7328	55	71	SUB1	MZ	HLD18-9,FSTMD	Y	7	2657	Y P09 P19		1365
7329	55	72		BCE	NOWOP,HLD18-11,\$	Y	8	2664	B S54 P07 \$		1365
7330	55	73		MZ	HLD18-15,FSTMD	Y	7	2672	Y P03 P19		1366
7331	55	74		B	NOWOP	Y	4	2679	B S54		1366
7332	55	75		DCW	#1	Y	1	2683			1366
7333	55	76	CODE	DCW	#3	Y	3	2686			1366
7334	55	77		LTORG	*	Y			2687		
			SAVX3Y	DCW	#03	Y	3	2689		AREA	1366
			MODSWY	DCW	#01	Y	1	2690		AREA	1366
			HEX3 Y	DCW	#03	Y	3	2693		AREA	1366
				DCW	@&-@* .#@	Y	6	2699		LIT	1367
			OPMD Y	DCW	#01	Y	1	2700		AREA	1367
			HLD18Y	DCW	#18	Y	18	2718		AREA	1367
			FSTMDY	DCW	#01	Y	1	2719		AREA	1367
				DCW	@F@	Y	1	2720		LIT	1367
				DCW	@X@	Y	1	2721		LIT	1367
				DCW	@/@	Y	1	2722		LIT	1367
				DCW	@ARITH6@	Y	6	2728		LIT	1368
				DCW	@K@	Y	1	2729		LIT	1368
			BLK20Y	DCW	#20	Y	20	2749		AREA	1368
				DCW	&1	Y	1	2750		LIT	1368
			XPON Y	DCW	#17	Y	17	2767		AREA	1369
			XPMODY	DCW	#01	Y	1	2768		AREA	1369
			HEX31Y	DCW	#03	Y	3	2771		AREA	1369
			BLK4 Y	DCW	#04	Y	4	2775		AREA	1369
			BMOD Y	DCW	#01	Y	1	2776		AREA	1369
			BASE Y	DCW	#17	Y	17	2793		AREA	1370
				DCW	@ERROR 30 - FIX TO FLOAT POWER, STATEMENT @	Y	41	2834		LIT	1372
				DCW	@E@	Y	1	2835		LIT	1372
				DCW	@G*@	Y	2	2837		LIT	1372
				DCW	@3@	Y	1	2838		LIT	1372
				DCW	@*@	Y	1	2839		LIT	1372
			SAV2 Y	DCW	#03	Y	3	2842		AREA	1373
				DCW	@&@	Y	1	2843		LIT	1373
				DCW	@F*<4?@	Y	5	2848		LIT	1373
				DCW	@G @	Y	2	2850		LIT	1373
				DCW	@<4?#@	Y	4	2854		LIT	1373
				DCW	@B700@	Y	4	2858		LIT	1373

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			BLK8	Y DCW	#08	Y	8	2866		AREA	1373
			BLK6	Y DCW	#06	Y	6	2872		AREA	1374
7335	55	78	SYSGM	DCW	@}@	Y	1	2873		GMARK	1374
7336	55	79		XFR	START	Y			B 838		1375

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7337	55	80		JOB	FORTRAN ARITH PHASE SIX	Y					
7338	55	81		FBEGN	ARITH SIX,X1,,X2,,X3,,S	Y				MACRO	
7339				SFX	S	S				GEN	
7340			110	DCW	@ARITH SIX@	S	9	0110		GEN	1378
7341			X1	EQU	089	S		0089		GEN	
7342			X2	EQU	094	S		0094		GEN	
7343			X3	EQU	099	S		0099		GEN	
7344	55	82	NXTOP	EQU	086	S		0086			
7345	55	83		ORG	XBEGIN	S			0838		
7346	55	84	INISH	BCE	FENDX,X2,.	S	8	0838	B S51 094 .		1379
7347	55	85		SBR	HEX2#3,0&X2	S	7	0846	H N31 0!0		1379
7348	55	86		MN	0&X3	S	4	0853	D 0?0		1379
7349	55	87		MN		S	1	0857	D		1379
7350	55	88		SAR	NOMO#3	S	4	0858	Q N34		1379
7351	55	89		SBR	HEX1#3,0&X1	S	7	0862	H N37 0 0		1379
7352	55	90		MCW	NXTOP,MXTMP	S	7	0869	M 086 N66		1379
7353	55	91		MCW	PARAM&6,TMPSZ#3	S	7	0876	M 692 N40		1380
7354	55	92		MN	&0,TMPSZ-2	S	7	0883	D N41 N38		1380
7355	55	93		A	&2,TMPSZ	S	7	0890	A N42 N40		1380
7356	55	94		C	TMPSZ,PARAM&4	S	7	0897	C N40 690		1380
7357	55	95		BL	START	S	5	0904	B 916 T		1380
7358	55	96		MCW	PARAM&4,TMPSZ	S	7	0909	M 690 N40		1381
7359	55	97	START	C	X2,NOMO	S	7	0916	C 094 N34		1381
7360	55	98		BE	DUN	S	5	0923	B S21 S		1381
7361	55	99		MCW	TABLE&165,TABLE&164	S	7	0928	M M94 M93		1381
7362	56	00	GETUM	BCE	GOTUM,2&X2,< DELTA 12-6-8	S	8	0935	B 959 0!2 <		1381
7363	56	01		SBR	X2	S	4	0943	H 094		1381
7364	56	02		BCE	NXGUY,1&X2,} GM	S	8	0947	B S10 0!1 } GMARK		1382
7365	56	03		B	GETUM	S	4	0955	B 935		1382
7366	56	04	GOTUM	MN	4&X2,DLVAL#3	S	7	0959	D 0!4 N45		1382
7367	56	05		MN		S	1	0966	D		1382
7368	56	06		MCW	@0@	S	4	0967	M N46		1382
7369	56	07		BWZ	BMPUM,4&X2,2	S	8	0971	V  16 0!4 2		1382
7370	56	08		A	&100,DLVAL	S	7	0979	A N49 N45		1382
7371	56	09		BWZ	BMPUM,4&X2,S	S	8	0986	V  16 0!4 S		1383
7372	56	10		A	&100,DLVAL	S	7	0994	A N49 N45		1383
7373	56	11		BWZ	BMPUM,4&X2,K	S	8	1001	V  16 0!4 K		1383
7374	56	12		A	&100,DLVAL	S	7	1009	A N49 N45		1383
7375	56	13	BMPUM	MCW	DLVAL,X3	S	7	1016	M N45 099		1383
7376	56	14		A	X3	S	4	1023	A 099		1384
7377	56	15		A	DLVAL,X3	S	7	1027	A N45 099		1384
7378	56	16		BCE	ASSGN,5&X2,#	S	8	1034	B  60 0!5 #		1384
7379	56	17		MCW	MATRX-1&X3,X1	S	7	1042	M T?5 089		1384
7380	56	18		MCW	@ @,TABLE-1&X1	S	7	1049	M N50 LS8		1384
7381	56	19		B	CMPAD	S	4	1056	B  89		1384
7382	56	20	ASSGN	MCM	TABLE	S	4	1060	P L29		1385
7383	56	21		SAR	X1	S	4	1064	Q 089		1385
7384	56	22		MA	-TABLE,X1	S	7	1068	# N53 089		1385
7385	56	23		MCW	*-6,TABLE-1&X1	S	7	1075	M  75 LS8		1385
7386	56	24		MCW	X1,MATRX-1&X3	S	7	1082	M 089 T?5		1385

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7387	56	25	CMPAD	ZA	X1, ACCUM-4	S	7	1089	? 089 N56		1385
7388	56	26		M	TMPSZ, ACCUM#7	S	7	1096	@ N40 N60		1386
7389	56	27		SW	ACCUM-4	S	4	1103	, N56		1386
7390	56	28		FPAK	ACCUM, 4&X2, X3	S				MACRO	
7391				INCLD	ZONES	S				MACRO	
7392				MN	ACCUM, 4&X2	S	7	1107	D N60 0!4	GEN	1386
7393				MN		S	1	1114	D	GEN	1386
7394				MN		S	1	1115	D	GEN	1386
7395				SAR	*&4	S	4	1116	Q /23	GEN	1386
7396				MCW	0, X3	S	7	1120	M 000 099	GEN	1386
7397				MCW	@0@	S	4	1127	M N46	GEN	1387
7398				A	X3	S	4	1131	A 099	GEN	1387
7399				MZ	ZONES&1&X3, 4&X2	S	7	1135	Y MI8 0!4	GEN	1387
7400				CW		S	1	1142	)	GEN	1387
7401				SBR	*&7	S	4	1143	H /53	GEN	1387
7402				MZ	ZONES&X3, 0	S	7	1147	Y MI7 000	GEN	1387
7403	56	29		CW	ACCUM-4	S	4	1154	) N56		1387
7404	56	30		MA	NXTOP, 4&X2	S	7	1158	# 086 0!4		1388
7405	56	31		C	X1, HYTEST#3	S	7	1165	C 089 N63		1388
7406	56	32		BH	GOBAK	S	5	1172	B /99 U		1388
7407	56	33		MCW	X1, HYTEST	S	7	1177	M 089 N63		1388
7408	56	34		MCW	4&X2, MXTMP#3	S	7	1184	M 0!4 N66		1388
7409	56	35		BWZ	BLWUP, MXTMP, 2	S	8	1191	V S74 N66 2		1389
7410	56	36	GOBAK	SBR	X2, 3&X2	S	7	1199	H 094 0!3		1389
7411	56	37		B	GETUM	S	4	1206	B 935		1389
7412	56	38	NXGUY	SBR	X2, 4&X2	S	7	1210	H 094 0!4		1389
7413	56	39		B	START	S	4	1217	B 916		1389
7414	56	40	DUN	MCW	HEX2, X3	S	7	1221	M N31 099		1389
7415	56	41		MCW	HEX1, X1	S	7	1228	M N37 089		1390
7416	56	42		C	0&X1	S	4	1235	C 0!0		1390
7417	56	43		C		S	1	1239	C		1390
7418	56	44		SAR	X1	S	4	1240	Q 089		1390
7419	56	45		MCW	MXTMP, NXTOP	S	7	1244	M N66 086		1390
7420	56	46	FENDX	FENDX	D, , , , , SYS6, I/O TWO	S				MACRO	
7421			FENDX	BSS	333, D	S	5	1251	B 333 D	GEN	1390
7422				SBR	TCLEAR, SYS6	S	7	1256	H 710 0!0	GEN	1390
7423				LCA	@I/O TWO@, 110	S	7	1263	L N73 110	GEN	1391
7424				B	MONTER	S	4	1270	B 700	GEN	1391
7425	56	47	BLWUP	BW	GOBAK, LGSW	S	8	1274	V /99 M95 1		1391
7426	56	48		CS	332	S	4	1282	/ 332		1391
7427	56	49		CS		S	1	1286	/		1391
7428	56	50		MLC	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@, 270	S	7	1287	M 009 270		1391
7429	56	51		W		S	1	1294	2		1391
7430	56	52		SW	FAILSW, LGSW	S	7	1295	, 184 M95		1392
7431	56	53		B	GOBAK	S	4	1302	B /99		1392
7432	56	54	MATRX	DA	1X1023	S		1306	2328		1392
7433	56	55	TABLE	DA	1X165,	S		2329	2494		1392
				DC	@ @	S	1	2494		RMARK	1393
7434	56	56	LGSW	DC	#1	S	1	2495			1393
7435	56	57		ORG	*	S			2496		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7436				LTORG	* WVS: AUTOCODER SHOULDN'T LOAD INCLD AT ORG	S			2496		
7437				DCW	#1	S	1	2496		GEN	1393
7438			ZONES	DC	9	S	1	2497		GEN	1393
7439				DCW	@9Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	S	31	2528		GEN	1393
			*	LTORG*						GEN	
			HEX2	S DCW	#03	S	3	2531		AREA	1393
			NOMO	S DCW	#03	S	3	2534		AREA	1394
			HEX1	S DCW	#03	S	3	2537		AREA	1394
			TMPSZS	DCW	#03	S	3	2540		AREA	1394
				DCW	&0	S	1	2541		LIT	1394
				DCW	&2	S	1	2542		LIT	1394
			DLVALS	DCW	#03	S	3	2545		AREA	1394
				DCW	@0@	S	1	2546		LIT	1394
				DCW	&100	S	3	2549		LIT	1395
				DCW	@ @	S	1	2550		LIT	1395
				DCW	-TABLES	S	3	2553	W7A	ADCON	1395
			ACCUMS	DCW	#07	S	7	2560		AREA	1395
			HYTEST	DCW	#03	S	3	2563		AREA	1395
			MXTMPS	DCW	#03	S	3	2566		AREA	1395
				DCW	@I/O TWO@	S	7	2573		LIT	1395
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	S	36	2609		LIT	1396
7440	56	58	SYS6	DCW	@}@	S	1	2610		GMARK	1396
7441	56	59		XFR	INISH	S			B 838		1397

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7442	56	60		JOB	1401 FORTRAN INPUT/OUTPUT PHASE TWO	S					
7443	56	61		FBEGN	I/O TWO,X1,,X2,R,X3,,U	S				MACRO	
7444				SFX	U	U				GEN	
7445		110		DCW	@I/O TWO@	U	7	0110		GEN	1400
7446		X1		EQU	089	U		0089		GEN	
7447		X2		EQU	094	U		0094		GEN	
7448		094		DCW	000	U	3	0094		GEN	1401
7449		096		DC	00	U	2	0096		GEN	1401
7450		X3		EQU	099	U		0099		GEN	
7451	56	62		ORG	XBEGIN	U			0838		
7452	56	63	START	BCE	OUT,0&X1,	U	8	0838	B 870 0 0		1402
7453	56	64		MCW	0&X1, CODE#4	U	7	0846	M 0 0 S30		1402
7454	56	65		MCW	CODE-3, *&8	U	7	0853	M S27 867		1402
7455	56	66		BCE	WORK,@BZN@,0	U	8	0860	B 893 S33 0		1402
7456	56	67		BCE		U	1	0868	B		1402
7457	56	68		BCE		U	1	0869	B		1402
7458	56	69	OUT	FENDX	C,,,,,,SYS1,CGOTO	U				MACRO	
7459		OUT		BSS	333,C	U	5	0870	B 333 C	GEN	1402
7460				SBR	TCLEAR,SYS1	U	7	0875	H 710 T24	GEN	1403
7461				LCA	@CGOTO@,110	U	7	0882	L S38 110	GEN	1403
7462				B	MONTER	U	4	0889	B 700	GEN	1403
7463	56	70	WORK	MCW	@B@,IOCW	U	7	0893	M S39 S26		1403
7464	56	71		MCW	@<@,2&X1	U	7	0900	M S40 0 2		1403
7465	56	72		SBR	KLOBR&6,2&X1	U	7	0907	H /23 0 2		1403
7466	56	73		BCE	CTU1, CODE-3, B	U	8	0914	B 944 S27 B		1404
7467	56	74		MCW	@R@,IOCW	U	7	0922	M S41 S26		1404
7468	56	75		BCE	CTU1, CODE-3, Z	U	8	0929	B 944 S27 Z		1404
7469	56	76		MCW	@M@,IOCW	U	7	0937	M S42 S26		1404
7470	56	77	CTU1	MVDWN	X1,X3	U				MACRO	
7471		CTU1		LCA	0&X1,0&X3	U	7	0944	L 0 0 0?0	GEN	1404
7472				SAR	X1	U	4	0951	Q 089	GEN	1405
7473				C	0&X3	U	4	0955	C 0?0	GEN	1405
7474				SAR	X3	U	4	0959	Q 099	GEN	1405
7475	56	78		LCA	1&X1,2&X3	U	7	0963	L 0 1 0?2		1405
7476	56	79		SBR	X3	U	4	0970	H 099		1405
7477	56	80		BWZ	*&5, CODE,2	U	8	0974	V 986 S30 2		1405
7478	56	81		B	CHNG	U	4	0982	B 994		1405
7479	56	82		BWZ	CKNUM, CODE-2,2	U	8	0986	V  08 S28 2		1406
7480	56	83	CHNG	MCW	CODE,X2	U	7	0994	M S30 094		1406
7481	56	84		MCW	0&X2, CODE	U	7	1001	M 0 0 S30		1406
7482	56	85	CKNUM	BCE	NONUM,0&X1, }	U	8	1008	B /59 0 0 } GMARK		1406
7483	56	86		MN	0&X1	U	4	1016	D 0 0		1406
7484	56	87		SAR	X2	U	4	1020	Q 094		1406
7485	56	88		BCE	CONST,0&X2, }	U	8	1024	B S04 0 0 } GMARK		1407
7486	56	89	SYMB	MCW	@0@,TUNO	U	7	1032	M S43 S25		1407
7487	56	90		MCW	0&X1,MVMSK-3	U	7	1039	M 0 0 S18		1407
7488	56	91		MCW	@D@,MVMSK-6	U	7	1046	M S44 S15		1407
7489	56	92		MZ	*-4,MVMSK-4	U	7	1053	Y  55 S17		1407
7490	56	93		CW	MVSW#1	U	4	1060	) S45		1408
7491	56	94	SLIDE	C	0&X1	U	4	1064	C 0 0		1408

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7492	56	95		SAR	X1	U	4	1068	Q 089		1408
7493	56	96		LCA	IOCW,0&X3	U	7	1072	L S26 0?0		1408
7494	56	97		SBR	X3	U	4	1079	H 099		1408
7495	56	98		BW	NOINT,MVSW	U	8	1083	V /06 S45 1		1408
7496	56	99		SW	MVSW	U	4	1091	, S45		1408
7497	57	00		LCA	MVMSK,0&X3	U	7	1095	L S21 0?0		1409
7498	57	01		SBR	X3	U	4	1102	H 099		1409
7499	57	02	NOINT	LCA	1&X1,0&X3	U	7	1106	L 0 1 0?0		1409
7500	57	03		SBR	X3	U	4	1113	H 099		1409
7501	57	04	KLOBR	BCE	START,0,<	U	8	1117	B 838 000 <		1409
7502	57	05		FQUIT		U				MACRO	
7503				CS	332	U	4	1125	/ 332	GEN	1409
7504				CS		U	1	1129	/	GEN	1409
7505				CC	1	U	2	1130	F 1	GEN	1410
7506				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	U	7	1132	M S81 270	GEN	1410
7507				W		U	1	1139	2	GEN	1410
7508				CC	1	U	2	1140	F 1	GEN	1410
7509				BCE	*&6,MONTOR,1	U	8	1142	B /55 769 1	GEN	1410
7510				RWD	1	U	5	1150	U %U1 R	GEN	1410
7511				H	*-3	U	4	1155	. /55	GEN	1410
7512	57	06	NONUM	FTMSG	33,NO TAPE UNIT NUMBER,CODE,21	U				MACRO	
7513			NONUM	CS	332	U	4	1159	/ 332	GEN	1411
7514				CS		U	1	1163	/	GEN	1411
7515				SW	FAILSW	U	4	1164	, 184	GEN	1411
7516				MN	CODE,224&21	U	7	1168	D S30 245	GEN	1411
7517				MN		U	1	1175	D	GEN	1411
7518				MN		U	1	1176	D	GEN	1411
7519				MCW	@ERROR 33 - NO TAPE UNIT NUMBER, STATEMENT @	U	4	1177	M T23	GEN	1411
7520				W		U	1	1181	2	GEN	1412
7521				BCV	*&5	U	5	1182	B /91 @	GEN	1412
7522				B	*&3	U	4	1187	B /93	GEN	1412
7523				CC	1	U	2	1191	F 1	GEN	1412
7524	57	07		MCW	@0@,TUNO	U	7	1193	M S43 S25		1412
7525	57	08		B	SYMB	U	4	1200	B  32		1412
7526	57	09	CONST	MN	0&X1,TUNO	U	7	1204	D 0 0 S25		1412
7527	57	10		B	SLIDE	U	4	1211	B  64		1413
7528	57	11	MVMSK	DCW	@MXXX0?4@	U	7	1221			1413
7529	57	12	IOCW	DCW	@U%U0X@	U	5	1226			1413
7530	57	13	TUNO	EQU	IOCW-1	U		1225			
7531	57	14		LTORG	*	U			1227		
			CODE	U	DCW #04	U	4	1230		AREA	1413
					DCW @BZN@	U	3	1233		LIT	1413
					DCW @CGOTO@	U	5	1238		LIT	1413
					DCW @B@	U	1	1239		LIT	1413
					DCW @<@	U	1	1240		LIT	1414
					DCW @R@	U	1	1241		LIT	1414
					DCW @M@	U	1	1242		LIT	1414
					DCW @0@	U	1	1243		LIT	1414
					DCW @D@	U	1	1244		LIT	1414
			MVSW	U	DCW #01	U	1	1245		AREA	1414



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	U	36	1281		LIT	1415
				DCW	@ERROR 33 - NO TAPE UNIT NUMBER, STATEMENT @	U	42	1323		LIT	1417
7532	57	15	SYS1	DCW	@}@	U	1	1324		GMARK	1417
7533	57	16		XFR	START	U			B 838		1418

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7534	57	17		JOB	1401 FORTRAN COMPUTED GO TO PHASE	U					
7535	57	18		FBEGN	CGOTO,X1,,X2,R,X3,,.	U				MACRO	
7536				SFX	.	.				GEN	
7537			110	DCW	@CGOTO@	.	5	0110		GEN	1421
7538			X1	EQU	089	.		0089		GEN	
7539			X2	EQU	094	.		0094		GEN	
7540			094	DCW	000	.	3	0094		GEN	1422
7541			096	DC	00	.	2	0096		GEN	1422
7542			X3	EQU	099	.		0099		GEN	
7543	57	19		ORG	XBEGIN	.			0838		
7544	57	20	INITL	SW	GM1,GM2	.	7	0838	, S95 T09		1423
7545	57	21	START	BWZ	OUT,0&X1,1	.	8	0845	V T20 0 0 1		1423
7546	57	22		MCW	0&X1,ID#3	.	7	0853	M 0 0 T62		1423
7547	57	23		MCW	ID,MASK	.	7	0860	M T62 T12		1423
7548	57	24		MCW	@ @,1&X1	.	7	0867	M T63 0 1		1423
7549	57	25		SBR	KLOBR&6,1&X1	.	7	0874	H  78 0 1		1424
7550	57	26		C	0&X1	.	4	0881	C 0 0		1424
7551	57	27		SAR	X1	.	4	0885	Q 089		1424
7552	57	28		C	2&X1,@T@	.	7	0889	C 0 2 T64		1424
7553	57	29		BU	DUN	.	5	0896	B T13 /		1424
7554	57	30	SMALL	S	MAX#2	.	4	0901	S T66		1424
7555	57	31	LOOP	MN	0&X1	.	4	0905	D 0 0		1424
7556	57	32		MN		.	1	0909	D		1425
7557	57	33		MN		.	1	0910	D		1425
7558	57	34		SAR	X1	.	4	0911	Q 089		1425
7559	57	35		A	&1,MAX	.	7	0915	A T67 T66		1425
7560	57	36		C	MAX,&11	.	7	0922	C T66 T69		1425
7561	57	37		BE	ERROR	.	5	0929	B S23 S		1425
7562	57	38		C	0&X1,@,@	.	7	0934	C 0 0 T70		1425
7563	57	39		BU	LOOP	.	5	0941	B 905 /		1426
7564	57	40		MN	0&X1	.	4	0946	D 0 0		1426
7565	57	41		SAR	X1	.	4	0950	Q 089		1426
7566	57	42		B	RUADR	.	4	0954	B /14		1426
7567	57	43		LCA	MASK,0&X3	.	7	0958	L T12 0?0		1426
7568	57	44		LCA	TRAP	.	4	0965	L T59		1426
7569	57	45		LCA		.	1	0969	L		1426
7570	57	46		LCA		.	1	0970	L		1427
7571	57	47		SBR	X3	.	4	0971	H 099		1427
7572	57	48		SBR	X1,1&X1	.	7	0975	H 089 0 1		1427
7573	57	49	ANYMO	BW	NOMO,4&X1	.	8	0982	V  53 0 4 1		1427
7574	57	50		SW	BRNCH-6	.	4	0990	, T44		1427
7575	57	51		MN	MAX,BRNCH	.	7	0994	D T66 T50		1427
7576	57	52		MCW	I	.	4	1001	M T02		1427
7577	57	53		MCW	6&X1	.	4	1005	M 0 6		1428
7578	57	54		SAR	X1	.	4	1009	Q 089		1428
7579	57	55		CW	BRNCH-6	.	4	1013	) T44		1428
7580	57	56		MZ	@K@,BRNCH-5	.	7	1017	Y T71 T45		1428
7581	57	57		MZ	*-4,BRNCH-2	.	7	1024	Y  26 T48		1428
7582	57	58		LCA	BRNCH,0&X3	.	7	1031	L T50 0?0		1428
7583	57	59		SBR	X3	.	4	1038	H 099		1428

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7584	57	60		S	&1,MAX	.	7	1042	S T67 T66		1429
7585	57	61		B	ANYMO	.	4	1049	B 982		1429
7586	57	62	NOMO	LCA	GM1,0&X3	.	7	1053	L S95 0?0		1429
7587	57	63		SBR	X3	.	4	1060	H 099		1429
7588	57	64	BOTM	C	0&X1	.	4	1064	C 0 0		1429
7589	57	65		SAR	X1	.	4	1068	Q 089		1429
7590	57	66	KLOBR	BCE	START,0,]	.	8	1072	B 845 000 ]		1429
7591	57	67		FQUIT		.				MACRO	
7592				CS	332	.	4	1080	/ 332	GEN	1430
7593				CS		.	1	1084	/	GEN	1430
7594				CC	1	.	2	1085	F 1	GEN	1430
7595				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	.	7	1087	M U07 270	GEN	1430
7596				W		.	1	1094	2	GEN	1430
7597				CC	1	.	2	1095	F 1	GEN	1430
7598				BCE	*&6,MONTOR,1	.	8	1097	B /10 769 1	GEN	1430
7599				RWD	1	.	5	1105	U %U1 R	GEN	1431
7600				H	*-3	.	4	1110	. /10	GEN	1431
7601	57	68	RUADR	SBR	EXRUA&3	.	4	1114	H S22		1431
7602	57	69		S	COUNT#1	.	4	1118	S U08		1431
7603	57	70	OK	MN	0&X1,TEST&7	.	7	1122	D 0 0 /55		1431
7604	57	71		SAR	X1	.	4	1129	Q 089		1431
7605	57	72		BCE	RUFIX,COUNT,B	.	8	1133	B /81 U08 B		1431
7606	57	73		A	&1,COUNT	.	7	1141	A T67 U08		1432
7607	57	74	TEST	BCE	OK,@0123456789@,0	.	8	1148	B /22 U18 0		1432
7608	57	75		CHAIN	9	.				MACRO	
7609				BCE		.	1	1156	B	GEN	1432
7610				BCE		.	1	1157	B	GEN	1432
7611				BCE		.	1	1158	B	GEN	1432
7612				BCE		.	1	1159	B	GEN	1432
7613				BCE		.	1	1160	B	GEN	1432
7614				BCE		.	1	1161	B	GEN	1433
7615				BCE		.	1	1162	B	GEN	1433
7616				BCE		.	1	1163	B	GEN	1433
7617				BCE		.	1	1164	B	GEN	1433
7618	57	76	ERR1	BCE	ERROR,0&X1,}	.	8	1165	B S23 0 0 }	GMARK	1433
7619	57	77		SBR	X1	.	4	1173	H 089		1433
7620	57	78		B	ERR1	.	4	1177	B /65		1433
7621	57	79	RUFIX	BWZ	FIXED,2&X1,K	.	8	1181	V /93 0 2 K		1434
7622	57	80		B	ERR1	.	4	1189	B /65		1434
7623	57	81	FIXED	MZ	BLANK#1,2&X1	.	7	1193	Y U19 0 2		1434
7624	57	82		MCW	3&X1,I	.	7	1200	M 0 3 T02		1434
7625	57	83		C	0&X1,GM1	.	7	1207	C 0 0 S95		1434
7626	57	84		BU	ERR1	.	5	1214	B /65 /		1434
7627	57	85	EXRUA	B	0	.	4	1219	B 000		1435
7628	57	86	ERROR	BWZ	*&5,ID,2	.	8	1223	V S35 T62 2		1435
7629	57	87		B	ZONE	.	4	1231	B S43		1435
7630	57	88		BWZ	PRINT,ID-2,2	.	8	1235	V S57 T60 2		1435
7631	57	89	ZONE	MCW	ID,X2	.	7	1243	M T62 094		1435
7632	57	90		MCW	0&X2,ID	.	7	1250	M 0 0 T62		1435
7633	57	91	PRINT	FTMSG	34,COMPUTED GO TO SYNTAX,ID,23	.				MACRO	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7634			PRINT	CS	332	.	4	1257	/ 332	GEN	1436
7635				CS		.	1	1261	/	GEN	1436
7636				SW	FAILSW	.	4	1262	, 184	GEN	1436
7637				MN	ID,224&23	.	7	1266	D T62 247	GEN	1436
7638				MN		.	1	1273	D	GEN	1436
7639				MN		.	1	1274	D	GEN	1436
7640				MCW	@ERROR 34 - COMPUTED GO TO SYNTAX, STATEMENT @	.	4	1275	M U63	GEN	1436
7641				W		.	1	1279	2	GEN	1437
7642				BCV	*&5	.	5	1280	B S89 @	GEN	1437
7643				B	*&3	.	4	1285	B S91	GEN	1437
7644				CC	1	.	2	1289	F 1	GEN	1437
7645	57	92		B	BOTM	.	4	1291	B  64		1437
7646	57	93	GM1	DC	@}@	.	1	1295		GMARK	1437
7647	57	94		DCW	@T@	.	1	1296			1437
7648	57	95		DC	XLINKS	.	3	1299	840		1437
7649	57	96	I	DCW	#3	.	3	1302			1437
7650	57	97		DCW	#3	.	3	1305			1438
7651	57	98	BASE	DCW	#3	.	3	1308			1438
7652	57	99	GM2	DC	@}@	.	1	1309		GMARK	1438
7653	58	00	MASK	DC	#3	.	3	1312			1438
7654	58	01	DUN	SBR	X1,5&X1	.	7	1313	H 089 0 5		1438
7655	58	02	OUT	FENDX	C,,,,,,SYSCG,GOMSK	.				MACRO	
7656			OUT	BSS	333,C	.	5	1320	B 333 C	GEN	1438
7657				SBR	TCLEAR,SYSCG	.	7	1325	H 710 U69	GEN	1438
7658				LCA	@GOMSK@,110	.	7	1332	L U68 110	GEN	1438
7659				B	MONTER	.	4	1339	B 700	GEN	1439
7660	58	03	BRNCH	DCW	@BXXXXXXA@	.	8	1350			1439
7661	58	04		NOP	1001	.	4	1351	N  01		1439
7662	58	05		H		.	1	1355	.		1439
7663	58	06	TRAP	DCW	@BIIB@	.	4	1359			1439
7664	58	07		LTORG	*	.			1360		
			ID	DCW	#03	.	3	1362		AREA	1439
				DCW	@]@	.	1	1363		LIT	1439
				DCW	@T@	.	1	1364		LIT	1440
			MAX	DCW	#02	.	2	1366		AREA	1440
				DCW	&1	.	1	1367		LIT	1440
				DCW	&11	.	2	1369		LIT	1440
				DCW	@,@	.	1	1370		LIT	1440
				DCW	@K@	.	1	1371		LIT	1440
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	.	36	1407		LIT	1441
			COUNT	DCW	#01	.	1	1408		AREA	1441
				DCW	@0123456789@	.	10	1418		LIT	1442
			BLANK	DCW	#01	.	1	1419		AREA	1442
				DCW	@ERROR 34 - COMPUTED GO TO SYNTAX, STATEMENT @	.	44	1463		LIT	1444
				DCW	@GOMSK@	.	5	1468		LIT	1444
7665	58	08	SYSCG	DCW	@}@	.	1	1469		GMARK	1444
7666	58	09		XFR	INITL	.			B 838		1445

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7667	58	10		JOB	1401 FORTRAN GO TO MASK PHASE	.					
7668	58	11		FBEGN	GOMSK,X1,,,,X3,,*	*				MACRO	
7669				SFX	*	*				GEN	
7670			110	DCW	@GOMSK@	*	5	0110		GEN	1448
7671			X1	EQU	089	*		0089		GEN	
7672			X3	EQU	099	*		0099		GEN	
7673	58	12		ORG	XBEGIN	*			0838		
7674	58	13	START	BCE	OUT,0&X1,	*	8	0838	B 861 0 0		1449
7675	58	14		MCW	0&X1,CODE#4	*	7	0846	M 0 0 962		1449
7676	58	15		BCE	CTU,CODE-3,G	*	8	0853	B 884 959 G		1449
7677	58	16	OUT	FENDX	C,,,,,SYS1,STOP/PAUSE	*				MACRO	
7678			OUT	BSS	333,C	*	5	0861	B 333 C	GEN	1449
7679				SBR	TCLEAR,SYS1	*	7	0866	H 710 975	GEN	1449
7680				LCA	@STOP/PAUSE@,110	*	7	0873	L 972 110	GEN	1450
7681				B	MONTER	*	4	0880	B 700	GEN	1450
7682	58	17	CTU	MVDWN	X1,X3	*				MACRO	
7683			CTU	LCA	0&X1,0&X3	*	7	0884	L 0 0 0?0	GEN	1450
7684				SAR	X1	*	4	0891	Q 089	GEN	1450
7685				C	0&X3	*	4	0895	C 0?0	GEN	1450
7686				SAR	X3	*	4	0899	Q 099	GEN	1450
7687	58	18		LCA	1&X3,2&X3	*	7	0903	L 0?1 0?2		1450
7688	58	19		SBR	X3	*	4	0910	H 099		1451
7689	58	20		MVDWN	X1,X3	*				MACRO	
7690				LCA	0&X1,0&X3	*	7	0914	L 0 0 0?0	GEN	1451
7691				SAR	X1	*	4	0921	Q 089	GEN	1451
7692				C	0&X3	*	4	0925	C 0?0	GEN	1451
7693				SAR	X3	*	4	0929	Q 099	GEN	1451
7694	58	21		MCW	@B@,1&X3	*	7	0933	M 973 0?1		1451
7695	58	22		LCA	1&X1	*	4	0940	L 0 1		1451
7696	58	23		SBR	X3	*	4	0944	H 099		1452
7697	58	24		MZ	@K@,4&X3	*	7	0948	Y 974 0?4		1452
7698	58	25		B	START	*	4	0955	B 838		1452
7699	58	26		LTORG	*	*			0959		
			CODE *	DCW	#04	*	4	0962		AREA	1452
				DCW	@STOP/PAUSE@	*	10	0972		LIT	1452
				DCW	@B@	*	1	0973		LIT	1452
				DCW	@K@	*	1	0974		LIT	1452
7700	58	27	SYS1	DCW	@}@	*	1	0975		GMARK	1453
7701	58	28		XFR	START	*			B 838		1454

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7702	58	29		JOB	1401 FORTRAN STOP/PAUSE PHASE	*					
7703	58	30		FBEGN	STOP/PAUSE,X1,,X2,,X3,,3	*				MACRO	
7704				SFX	3	3				GEN	
7705		110		DCW	@STOP/PAUSE@	3	10	0110		GEN	1457
7706			X1	EQU	089	3		0089		GEN	
7707			X2	EQU	094	3		0094		GEN	
7708			X3	EQU	099	3		0099		GEN	
7709	58	31		ORG	XBEGIN	3			0838		
7710	58	32	START	CS	299	3	4	0838	/ 299		1458
7711	58	33	NUTYP	BCE	OUT,0&X1,	3	8	0842	B 873 0 0		1458
7712	58	34		MCW	0&X1, CODE#4	3	7	0850	M 0 0 W02		1458
7713	58	35		FBCEQ	DOIT, CODE-3, A, S	3				MACRO	
7714				BCE	DOIT, CODE-3, A	3	8	0857	B 896 V99 A	GEN	1458
7715				BCE	DOIT, CODE-3, S	3	8	0865	B 896 V99 S	GEN	1458
7716	58	36	OUT	FENDX	C,,,,,SYS1,LIGHT	3				MACRO	
7717			OUT	BSS	333,C	3	5	0873	B 333 C	GEN	1459
7718				SBR	TCLEAR, SYS1	3	7	0878	H 710 W61	GEN	1459
7719				LCA	@LIGHT@,110	3	7	0885	L W07 110	GEN	1459
7720				B	MONTER	3	4	0892	B 700	GEN	1459
7721	58	37	DOIT	MCW	@<@, 2&X1	3	7	0896	M W08 0 2		1459
7722	58	38		SBR	KLOBR&6, 2&X1	3	7	0903	H S58 0 2		1459
7723	58	39		MVDWN	X1, X3	3				MACRO	
7724				LCA	0&X1, 0&X3	3	7	0910	L 0 0 0?0	GEN	1460
7725				SAR	X1	3	4	0917	Q 089	GEN	1460
7726				C	0&X3	3	4	0921	C 0?0	GEN	1460
7727				SAR	X3	3	4	0925	Q 099	GEN	1460
7728	58	40		LCA	1&X3, 2&X3	3	7	0929	L 0?1 0?2		1460
7729	58	41		SBR	X3	3	4	0936	H 099		1460
7730	58	42		BCE	NOAD, 0&X1, }	3	8	0940	B  69 0 0 }	GMARK	1460
7731	58	43		CS	WORK	3	4	0948	/ V98		1461
7732	58	44		FFLIP	0&X1, LOWK, X1, X2, , WM	3				MACRO	
7733				MN	LOWK	3	4	0952	D V00	GEN	1461
7734				MN		3	1	0956	D	GEN	1461
7735				SAR	X2	3	4	0957	Q 094	GEN	1461
7736				SBR	X1, 0&X1	3	7	0961	H 089 0 0	GEN	1461
7737			)0K212	MCW	0&X1, )0L212#1	3	7	0968	M 0 0 W09	GEN	1461
7738				SAR	X1	3	4	0975	Q 089	GEN	1461
7739				BW	)0M212, 1&X1	3	8	0979	V  02 0 1 1	GEN	1462
7740				MCW	)0L212, 2&X2	3	7	0987	M W09 0!2	GEN	1462
7741				SBR	X2	3	4	0994	H 094	GEN	1462
7742				B	)0K212	3	4	0998	B 968	GEN	1462
7743			)0M212	EQU	*&1	3		1002		GEN	
7744	58	45		SW	LOWK	3	4	1002	, V00		1462
7745	58	46		BCE	OKAY2, LOWK&3,	3	8	1006	B  42 V03		1462
7746	58	47		MCW	MSG1, 222	3	7	1014	M T15 222		1463
7747	58	48		MCW	MSG2, 247	3	7	1021	M T33 247		1463
7748	58	49		MCW	LOWK&4, 228	3	7	1028	M V04 228		1463
7749	58	50		MCW	LOWK&2, 251	3	7	1035	M V02 251		1463
7750	58	51	OKAY2	BCE	*&5, LOWK&2,	3	8	1042	B  54 V02		1463
7751	58	52		B	SETUP	3	4	1050	B  84		1464

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7752	58	53		MCW	LOWK&1,LOWK&2	3	7	1054	M V01 V02		1464
7753	58	54		MCW	@0@	3	4	1061	M W10		1464
7754	58	55		B	OKAY2	3	4	1065	B  42		1464
7755	58	56	NOAD	LCA	@000@,LOWK&2	3	7	1069	L W13 V02		1464
7756	58	57		C	0&X1	3	4	1076	C 0 0		1464
7757	58	58		SAR	X1	3	4	1080	Q 089		1464
7758	58	59	SETUP	MCW	LOWK&2,SAVE3#3	3	7	1084	M V02 W16		1465
7759	58	60		A	@0@,LOWK&3	3	7	1091	A W10 V03		1465
7760	58	61		C	LOWK&2,SAVE3	3	7	1098	C V02 W16		1465
7761	58	62		BE	AOK	3	5	1105	B /70 S		1465
7762	58	63		BCE	NUERR,201,	3	8	1110	B /31 201		1465
7763	58	64	RTN	MZ	BLNK3#3,251	3	7	1118	Y W19 251		1466
7764	58	65		MZ		3	1	1125	Y		1466
7765	58	66		MZ		3	1	1126	Y		1466
7766	58	67		B	AOK	3	4	1127	B /70		1466
7767	58	68	NUERR	MCW	MSG1,222	3	7	1131	M T15 222		1466
7768	58	69		MCW	MSG2,247	3	7	1138	M T33 247		1466
7769	58	70		MCW	LOWK&2,226	3	7	1145	M V02 226		1466
7770	58	71		MCW	LOWK&2,251	3	7	1152	M V02 251		1467
7771	58	72		MCW	BLANK,223	3	7	1159	M W17 223		1467
7772	58	73		B	RTN	3	4	1166	B /18		1467
7773	58	74	AOK	BCE	CTU,201,	3	8	1170	B /94 201		1467
7774	58	75		W		3	1	1178	2		1467
7775	58	76		FORMS		3				MACRO	
7776				BCV	*&5	3	5	1179	B /88 @	GEN	1467
7777				B	*&3	3	4	1184	B /90	GEN	1467
7778				CC	1	3	2	1188	F 1	GEN	1468
7779	58	77		CS	299	3	4	1190	/ 299		1468
7780	58	78	CTU	CW	LOWK	3	4	1194	) V00		1468
7781	58	79		BCE	PAUSE,CODE-3,A	3	8	1198	B S33 V99 A		1468
7782	58	80		LCA	@BIIB@,0&X3	3	7	1206	L W23 0?0		1468
7783	58	81		LCA	@.@	3	4	1213	L W24		1468
7784	58	82		LCA	LOWK&2	3	4	1217	L V02		1468
7785	58	83		LCA	1&X1	3	4	1221	L 0 1		1469
7786	58	84		SBR	X3	3	4	1225	H 099		1469
7787	58	85		B	KLOBR	3	4	1229	B S52		1469
7788	58	86	PAUSE	LCA	@.@,0&X3	3	7	1233	L W24 0?0		1469
7789	58	87		LCA	LOWK&2	3	4	1240	L V02		1469
7790	58	88		LCA	1&X1	3	4	1244	L 0 1		1469
7791	58	89		SBR	X3	3	4	1248	H 099		1469
7792	58	90	KLOBR	BCE	NUTYP,0,<	3	8	1252	B 842 000 <		1470
7793	58	91		FQUIT		3				MACRO	
7794				CS	332	3	4	1260	/ 332	GEN	1470
7795				CS		3	1	1264	/	GEN	1470
7796				CC	1	3	2	1265	F 1	GEN	1470
7797				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	3	7	1267	M W60 270	GEN	1470
7798				W		3	1	1274	2	GEN	1470
7799				CC	1	3	2	1275	F 1	GEN	1470
7800				BCE	*&6,MONTOR,1	3	8	1277	B S90 769 1	GEN	1471
7801				RWD	1	3	5	1285	U %U1 R	GEN	1471

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7802				H	*-3	3	4	1290	. S90	GEN	1471
7803	58	92	MSG1	DCW	@ERROR 35 - HALT NUMBER@	3	22	1315			1471
7804	58	93	MSG2	DCW	@TO BE DISPLAYED AS@	3	18	1333			1472
7805	58	94		ORG	*&X00	3			1400		
7806	58	95		ORG	*&99	3			1499		
7807	58	96		DCW	@N@	3	1	1499			1473
7808	58	97	LOWK	DS	1	3		1500			
7809	58	98	WORK	DS	98	3		1598			
7810	58	99		LTORG	*	3			1599		
			CODE 3	DCW	#04	3	4	1602		AREA	1474
				DCW	@LIGHT@	3	5	1607		LIT	1474
				DCW	@<@	3	1	1608		LIT	1474
			)0L212	DCW	#01	3	1	1609		AREA	1474
				DCW	@0@	3	1	1610		LIT	1474
				DCW	@000@	3	3	1613		LIT	1474
			SAVE33	DCW	#03	3	3	1616		AREA	1474
			BLNK33	DCW	#03	3	3	1619		AREA	1475
				DCW	@BIIB@	3	4	1623		LIT	1475
				DCW	@.@	3	1	1624		LIT	1475
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	3	36	1660		LIT	1476
7811	59	00	SYS1	DCW	@}@	3	1	1661		GMARK	1476
7812	59	01	BLANK	EQU	BLNK3-2	3		1617			
7813	59	02		XFR	START	3			B 838		1477



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7814	59	03		JOB	1401 FORTRAN SENSE LIGHT PHASE	3					
7815	59	04		FBEGN	LIGHT,X1,,X2,R,X3,,5	3				MACRO	
7816				SFX	5	5				GEN	
7817			110	DCW	@LIGHT@	5	5	0110		GEN	1480
7818			X1	EQU	089	5		0089		GEN	
7819			X2	EQU	094	5		0094		GEN	
7820			094	DCW	000	5	3	0094		GEN	1481
7821			096	DC	00	5	2	0096		GEN	1481
7822			X3	EQU	099	5		0099		GEN	
7823	59	05		ORG	XBEGIN	5			0838		
7824	59	06	START	BCE	OUT,0&X1,	5	8	0838	B 861 0 0		1482
7825	59	07		MCW	0&X1, CODE#4	5	7	0846	M 0 0 /88		1482
7826	59	08		BCE	DOIT, CODE-3, J	5	8	0853	B 884 /85 J		1482
7827	59	09	OUT	FENDX	C, , , , , SYSL, IFCOND	5				MACRO	
7828			OUT	BSS	333, C	5	5	0861	B 333 C	GEN	1482
7829				SBR	TCLEAR, SYSL	5	7	0866	H 710 S92	GEN	1482
7830				LCA	@IFCOND@, 110	5	7	0873	L /94 110	GEN	1483
7831				B	MONTER	5	4	0880	B 700	GEN	1483
7832	59	10	DOIT	MVDWN	X1, X3	5				MACRO	
7833			DOIT	LCA	0&X1, 0&X3	5	7	0884	L 0 0 0?0	GEN	1483
7834				SAR	X1	5	4	0891	Q 089	GEN	1483
7835				C	0&X3	5	4	0895	C 0?0	GEN	1483
7836				SAR	X3	5	4	0899	Q 099	GEN	1483
7837	59	11		SBR	KLOBR&6, 1&X1	5	7	0903	H /26 0 1		1483
7838	59	12		MCW	@ @, 1&X1	5	7	0910	M /95 0 1		1484
7839	59	13		LCA	1&X3, 2&X3	5	7	0917	L 0?1 0?2		1484
7840	59	14		SBR	X3	5	4	0924	H 099		1484
7841	59	15		MCW	CODE, HOLD#3	5	7	0928	M /88 /98		1484
7842	59	16		BWZ	*&5, HOLD, 2	5	8	0935	V 947 /98 2		1484
7843	59	17		B	SWEAT	5	4	0943	B 955		1484
7844	59	18		BWZ	CKGM, HOLD-2, 2	5	8	0947	V 969 /96 2		1485
7845	59	19	SWEAT	MCW	HOLD, X2	5	7	0955	M /98 094		1485
7846	59	20		MCW	0&X2, HOLD	5	7	0962	M 0 0 /98		1485
7847	59	21	CKGM	BCE	BAD, 0&X1, }	5	8	0969	B  15 0 0 }	GMARK	1485
7848	59	22		MCW	0&X1, HLD2#2	5	7	0977	M 0 0 S00		1485
7849	59	23		BCE	*&5, HLD2-1, }	5	8	0984	B 996 /99 }	GMARK	1486
7850	59	24		B	BAD	5	4	0992	B  15		1486
7851	59	25		MN	0&X1, *&8	5	7	0996	D 0 0  10		1486
7852	59	26		BCE	OK, @01234@, 0	5	8	1003	B  68 S05 0		1486
7853	59	27		CHAIN	4	5				MACRO	
7854				BCE		5	1	1011	B	GEN	1486
7855				BCE		5	1	1012	B	GEN	1486
7856				BCE		5	1	1013	B	GEN	1486
7857				BCE		5	1	1014	B	GEN	1487
7858	59	28	BAD	FTMSG	36, ILLEGAL SENSE LIGHT, HOLD, 21	5				MACRO	
7859			BAD	CS	332	5	4	1015	/ 332	GEN	1487
7860				CS		5	1	1019	/	GEN	1487
7861				SW	FAILSW	5	4	1020	, 184	GEN	1487
7862				MN	HOLD, 224&21	5	7	1024	D /98 245	GEN	1487
7863				MN		5	1	1031	D	GEN	1487

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	
7864				MN		5	1	1032	D	GEN	1487	
7865				MCW	@ERROR 36 - ILLEGAL SENSE LIGHT, STATEMENT @	5	4	1033	M S47	GEN	1488	
7866				W		5	1	1037	2	GEN	1488	
7867				BCV	* & 5	5	5	1038	B   47 @	GEN	1488	
7868				B	* & 3	5	4	1043	B   49	GEN	1488	
7869				CC	1	5	2	1047	F 1	GEN	1488	
7870	59	29		SBR	X3, 4 & X3	5	7	1049	H 099 0?4		1488	
7871	59	30		C	0 & X1	5	4	1056	C 0   0		1488	
7872	59	31		SAR	X1	5	4	1060	Q 089		1489	
7873	59	32		B	START	5	4	1064	B 838		1489	
7874	59	33	OK	MZ	* - 4, 0 & X1	5	7	1068	Y   70 0   0		1489	
7875	59	34		BCE	ZERO, 0 & X1, 0	5	8	1075	B / 62 0   0 0		1489	
7876	59	35		MN	0 & X1, MASK1	5	7	1083	D 0   0 / 84		1489	
7877	59	36		LCA	MASK1, 0 & X3	5	7	1090	L / 84 0?0		1489	
7878	59	37		SBR	X3	5	4	1097	H 099		1490	
7879	59	38	RTN	C	0 & X1	5	4	1101	C 0   0		1490	
7880	59	39		SAR	X1	5	4	1105	Q 089		1490	
7881	59	40		LCA	1 & X1, 0 & X3	5	7	1109	L 0   1 0?0		1490	
7882	59	41		SBR	X3	5	4	1116	H 099		1490	
7883	59	42	KLOBR	BCE	START, 0, ]	5	8	1120	B 838 000 ]		1490	
7884	59	43		FQUIT		5				MACRO		
7885				CS	332	5	4	1128	/ 332	GEN	1490	
7886				CS		5	1	1132	/	GEN	1491	
7887				CC	1	5	2	1133	F 1	GEN	1491	
7888				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@, 270	5	7	1135	M S83 270	GEN	1491	
7889				W		5	1	1142	2	GEN	1491	
7890				CC	1	5	2	1143	F 1	GEN	1491	
7891				BCE	* & 6, MONITOR, 1	5	8	1145	B / 58 769 1	GEN	1491	
7892				RWD	1	5	5	1153	U %U1 R	GEN	1491	
7893				H	* - 3	5	4	1158	. / 58	GEN	1492	
7894	59	44	ZERO	LCA	@, @, 0 & X3	5	7	1162	L S84 0?0		1492	
7895	59	45		LCA	@, 082084@	5	4	1169	L S91		1492	
7896	59	46		SBR	X3	5	4	1173	H 099		1492	
7897	59	47		B	RTN	5	4	1177	B / 01		1492	
7898	59	48	MASK1	DCW	@) 080@	5	4	1184			1492	
7899	59	49		LTORG	*	5			1185			
			CODE	5	DCW	#04	5	4	1188		AREA	1492
					DCW	@IFCOND@	5	6	1194		LIT	1493
					DCW	@]@	5	1	1195		LIT	1493
			HOLD	5	DCW	#03	5	3	1198		AREA	1493
			HLD2	5	DCW	#02	5	2	1200		AREA	1493
					DCW	@01234@	5	5	1205		LIT	1493
					DCW	@ERROR 36 - ILLEGAL SENSE LIGHT, STATEMENT @	5	42	1247		LIT	1495
					DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	5	36	1283		LIT	1495
					DCW	@, @	5	1	1284		LIT	1496
					DCW	@, 082084@	5	7	1291		LIT	1496
7900	59	50	SYSL	DCW	@} @	5	1	1292		GMARK	1496	
7901	59	51		XFR	START	5			B 838		1497	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7902	59	52		JOB	1401 FORTRAN IF %HARDWARE) PHASE	5					
7903	59	53		FBEGN	IFCOND,X1,,X2,R,X3,,4	5				MACRO	
7904				SFX	4	4				GEN	
7905			110	DCW	@IFCOND@	4	6	0110		GEN	1500
7906			X1	EQU	089	4		0089		GEN	
7907			X2	EQU	094	4		0094		GEN	
7908			094	DCW	000	4	3	0094		GEN	1501
7909			096	DC	00	4	2	0096		GEN	1501
7910			X3	EQU	099	4		0099		GEN	
7911	59	54		ORG	XBEGIN	4			0838		
7912	59	55	START	BCE	OUT,0&X1, BLANK	4	8	0838	B 870 0 0		1502
7913	59	56		MCW	0&X1, CODE	4	7	0846	M 0 0 U45		1502
7914	59	57		MCW		4	1	0853	M		1502
7915	59	58		FBCEQ	DOIT, CODE-3, W, K	4				MACRO	
7916				BCE	DOIT, CODE-3, W	4	8	0854	B 893 U42 W	GEN	1502
7917				BCE	DOIT, CODE-3, K	4	8	0862	B 893 U42 K	GEN	1502
7918	59	59	OUT	FENDX	C,,,,,SYS1,CONTINUE	4				MACRO	
7919			OUT	BSS	333,C	4	5	0870	B 333 C	GEN	1502
7920				SBR	TCLEAR, SYS1	4	7	0875	H 710 W14	GEN	1503
7921				LCA	@CONTINUE@, 110	4	7	0882	L U69 110	GEN	1503
7922				B	MONTER	4	4	0889	B 700	GEN	1503
7923	59	60	DOIT	MCW	@<@, 2&X1 12-6-8	4	7	0893	M U70 0 2		1503
7924	59	61		SBR	KLOBR&6, 2&X1	4	7	0900	H S03 0 2		1503
7925	59	62		MVDWN	X1, X3	4				MACRO	
7926				LCA	0&X1, 0&X3	4	7	0907	L 0 0 0?0	GEN	1503
7927				SAR	X1	4	4	0914	Q 089	GEN	1504
7928				C	0&X3	4	4	0918	C 0?0	GEN	1504
7929				SAR	X3	4	4	0922	Q 099	GEN	1504
7930	59	63		LCA	1&X3, 2&X3	4	7	0926	L 0?1 0?2		1504
7931	59	64		SBR	X3	4	4	0933	H 099		1504
7932	59	65		MCW	0&X1, ON	4	7	0937	M 0 0 U36		1504
7933	59	66		MCW		4	1	0944	M		1504
7934	59	67		SAR	X1	4	4	0945	Q 089		1505
7935	59	68		MZ	@K@, ON-1	4	7	0949	Y U71 U35		1505
7936	59	69		MZ	@K@, OFF-1	4	7	0956	Y U71 U32		1505
7937	59	70		BWZ	*&5, CODE, 2	4	8	0963	V 975 U45 2		1505
7938	59	71		B	FLIP	4	4	0971	B 983		1505
7939	59	72		BWZ	CKCOM, CODE-2, 2	4	8	0975	V 997 U43 2		1505
7940	59	73	FLIP	MCW	CODE, X2	4	7	0983	M U45 094		1506
7941	59	74		MCW	0&X2, CODE	4	7	0990	M 0 0 U45		1506
7942	59	75	CKCOM	B	AOK	4	4	0997	B  20		1506
7943	59	76	KILL	C	0&X1	4	4	1001	C 0 0		1506
7944	59	77		SAR	X1	4	4	1005	Q 089		1506
7945	59	78		SBR	X3, 4&X3	4	7	1009	H 099 0?4		1506
7946	59	79		B	START	4	4	1016	B 838		1506
7947	59	80	AOK	MN	0&X1	4	4	1020	D 0 0		1507
7948	59	81		SAR	X1	4	4	1024	Q 089		1507
7949	59	82		BCE	LIGHT, CODE-3, K	4	8	1028	B S54 U42 K		1507
7950	59	83		MCW	0&X1, BOX#1	4	7	1036	M 0 0 U72		1507
7951	59	84		MCW	BOX, *&8	4	7	1043	M U72  57		1507

PROCESS IF SENSE  
SWITCH

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
7952	59	85		BCE	AOK2,@0123456@,0	4	8	1050	B /02 U79 0		1507
7953	59	86		CHAIN	6	4				MACRO	
7954				BCE		4	1	1058	B	GEN	1507
7955				BCE		4	1	1059	B	GEN	1508
7956				BCE		4	1	1060	B	GEN	1508
7957				BCE		4	1	1061	B	GEN	1508
7958				BCE		4	1	1062	B	GEN	1508
7959				BCE		4	1	1063	B	GEN	1508
7960	59	87		FTMSG	37,ILLEGAL SENSE SWITCH,CODE,22	4				MACRO	
7961				CS	332	4	4	1064	/ 332	GEN	1508
7962				CS		4	1	1068	/	GEN	1508
7963				SW	FAILSW	4	4	1069	, 184	GEN	1509
7964				MN	CODE,224&22	4	7	1073	D U45 246	GEN	1509
7965				MN		4	1	1080	D	GEN	1509
7966				MN		4	1	1081	D	GEN	1509
7967				MCW	@ERROR 37 - ILLEGAL SENSE SWITCH, STATEMENT @	4	4	1082	M V22	GEN	1509
7968				W		4	1	1086	2	GEN	1509
7969				BCV	*&5	4	5	1087	B  96 @	GEN	1509
7970				B	*&3	4	4	1092	B  98	GEN	1510
7971				CC	1	4	2	1096	F 1	GEN	1510
7972	59	88		B	KILL	4	4	1098	B  01		1510
7973	59	89	AOK2	A	&1,BOX	4	7	1102	A V23 U72		1510
7974	59	90		MN	BOX,MASK1	4	7	1109	D U72 U41		1510
7975	59	91		MCW	ON,MASK1-1	4	7	1116	M U36 U40		1510
7976	59	92		MCW	OFF,X2	4	7	1123	M U33 094		1510
7977	59	93		MCW	0&X2,X2	4	7	1130	M 0!0 094		1511
7978	59	94		S	&10,X2&1	4	7	1137	S V25 095		1511
7979	59	95		C	CODE,X2	4	7	1144	C U45 094		1511
7980	59	96		BE	NOXTR	4	5	1151	B S39 S		1511
7981	59	97		MCW	OFF,MASK2	4	7	1156	M U33 U49		1511
7982	59	98		LCA	MASK2,0&X3	4	7	1163	L U49 0?0		1512
7983	59	99		LCA	MASK1	4	4	1170	L U41		1512
7984	60	00		SBR	X3	4	4	1174	H 099		1512
7985	60	01	RETRN	C	0&X1	4	4	1178	C 0 0		1512
7986	60	02		SAR	X1	4	4	1182	Q 089		1512
7987	60	03		LCA	1&X1,0&X3	4	7	1186	L 0 1 0?0		1512
7988	60	04		SBR	X3	4	4	1193	H 099		1512
7989	60	05	KLOBR	BCE	START,0,<	4	8	1197	B 838 000 <		1513
7990	60	06		FQUIT		4				MACRO	
7991				CS	332	4	4	1205	/ 332	GEN	1513
7992				CS		4	1	1209	/	GEN	1513
7993				CC	1	4	2	1210	F 1	GEN	1513
7994				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	4	7	1212	M V61 270	GEN	1513
7995				W		4	1	1219	2	GEN	1513
7996				CC	1	4	2	1220	F 1	GEN	1513
7997				BCE	*&6,MONTOR,1	4	8	1222	B S35 769 1	GEN	1514
7998				RWD	1	4	5	1230	U %U1 R	GEN	1514
7999				H	*-3	4	4	1235	. S35	GEN	1514
8000	60	07	NOXTR	LCA	MASK1,0&X3	4	7	1239	L U41 0?0		1514
8001	60	08		SBR	X3	4	4	1246	H 099		1514

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8002	60	09		B	RETRN	4	4	1250	B /78		1514
8003	60	10	LIGHT	MCW	0&X1,BOX	4	7	1254	M 0 0 U72		1514
8004	60	11		MCW	BOX,*&8	4	7	1261	M U72 S75		1515
8005	60	12		BCE	AOK3,@1234@,0	4	8	1268	B T17 V65 0		1515
8006	60	13		CHAIN	3	4				MACRO	
8007				BCE		4	1	1276	B	GEN	1515
8008				BCE		4	1	1277	B	GEN	1515
8009				BCE		4	1	1278	B	GEN	1515
8010	60	14		FTMSG	36,ILLEGAL SENSE LIGHT,CODE,21	4				MACRO	
8011				CS	332	4	4	1279	/ 332	GEN	1515
8012				CS		4	1	1283	/	GEN	1515
8013				SW	FAILSW	4	4	1284	, 184	GEN	1516
8014				MN	CODE,224&21	4	7	1288	D U45 245	GEN	1516
8015				MN		4	1	1295	D	GEN	1516
8016				MN		4	1	1296	D	GEN	1516
8017				MCW	@ERROR 36 - ILLEGAL SENSE LIGHT, STATEMENT @	4	4	1297	M W07	GEN	1516
8018				W		4	1	1301	2	GEN	1516
8019				BCV	*&5	4	5	1302	B T11 @	GEN	1516
8020				B	*&3	4	4	1307	B T13	GEN	1517
8021				CC	1	4	2	1311	F 1	GEN	1517
8022	60	15		B	KILL	4	4	1313	B  01		1517
8023	60	16	AOK3	MCW	@080@,WORK3#3	4	7	1317	M W10 W13		1517
8024	60	17		A	BOX,WORK3	4	7	1324	A U72 W13		1517
8025	60	18		MCW	WORK3,MASK3-1	4	7	1331	M W13 U56		1517
8026	60	19		MCW	OFF	4	4	1338	M U33		1517
8027	60	20		MCW	WORK3,MASK4	4	7	1342	M W13 U61		1518
8028	60	21		MCW	ON,X2	4	7	1349	M U36 094		1518
8029	60	22		MCW	0&X2,X2	4	7	1356	M 0!0 094		1518
8030	60	23		S	&10,X2&1	4	7	1363	S V25 095		1518
8031	60	24		C	CODE,X2	4	7	1370	C U45 094		1518
8032	60	25		BE	CHEAP	4	5	1377	B U12 S		1519
8033	60	26		MCW	ON,MASK2	4	7	1382	M U36 U49		1519
8034	60	27		LCA	MASK2,0&X3	4	7	1389	L U49 0?0		1519
8035	60	28		LCA	MASK4	4	4	1396	L U61		1519
8036	60	29		LCA	MASK3	4	4	1400	L U57		1519
8037	60	30		SBR	X3	4	4	1404	H 099		1519
8038	60	31		B	RETRN	4	4	1408	B /78		1519
8039	60	32	CHEAP	LCA	MASK4,0&X3	4	7	1412	L U61 0?0		1520
8040	60	33		LCA	MASK3	4	4	1419	L U57		1520
8041	60	34		SBR	X3	4	4	1423	H 099		1520
8042	60	35		B	RETRN	4	4	1427	B /78		1520
8043	60	36	OFF	DCW	#3	4	3	1433			1520
8044	60	37	ON	DCW	#3	4	3	1436			1520
8045	60	38	MASK1	DCW	@B &@	4	5	1441			1520
8046	60	39		DCW	#1	4	1	1442			1521
8047	60	40	CODE	DCW	#3	4	3	1445			1521
8048	60	41	MASK2	DCW	@B @	4	4	1449			1521
8049	60	42	MASK3	DCW	@V 1@	4	8	1457			1521
8050	60	43	MASK4	DCW	@, @	4	4	1461			1521
8051	60	44		LTORG	*	4			1462		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	@CONTINUE@	4	8	1469		LIT	1521
				DCW	@<@	4	1	1470		LIT	1521
				DCW	@K@	4	1	1471		LIT	1522
			BOX	4	DCW			1472		AREA	1522
				DCW	@0123456@	4	7	1479		LIT	1522
				DCW	@ERROR 37 - ILLEGAL SENSE SWITCH, STATEMENT @	4	43	1522		LIT	1524
				DCW	&1	4	1	1523		LIT	1524
				DCW	&10	4	2	1525		LIT	1524
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	4	36	1561		LIT	1525
				DCW	@1234@	4	4	1565		LIT	1526
				DCW	@ERROR 36 - ILLEGAL SENSE LIGHT, STATEMENT @	4	42	1607		LIT	1528
				DCW	@080@	4	3	1610		LIT	1528
			WORK34	DCW	#03	4	3	1613		AREA	1528
8052	60	45	SYS1	DCW	@}@	4	1	1614		GMARK	1528
8053	60	46		XFR	START	4			B 838		1529

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8054	60	47		JOB	1401 FORTRAN CONTINUE PHASE	4					
8055	60	48		FBEGN	CONTINUE,X1,,,X3,,&	4				MACRO	
8056				SFX	&	&				GEN	
8057			110	DCW	@CONTINUE@	&	8	0110		GEN	1532
8058			X1	EQU	089	&		0089		GEN	
8059			X3	EQU	099	&		0099		GEN	
8060	60	49		ORG	XBEGIN	&			0838		
8061	60	50	START	BCE	OUT,0&X1,	&	8	0838	B 861 0 0		1533
8062	60	51		MCW	0&X1, CODE#4	&	7	0846	M 0 0 925		1533
8063	60	52		BCE	ISCTU, CODE-3, C	&	8	0853	B 884 922 C		1533
8064	60	53	OUT	FENDX	C,,,,,SYS1,DOMSK	&				MACRO	
8065			OUT	BSS	333,C	&	5	0861	B 333 C	GEN	1533
8066				SBR	TCLEAR, SYS1	&	7	0866	H 710 931	GEN	1533
8067				LCA	@DOMSK@,110	&	7	0873	L 930 110	GEN	1534
8068				B	MONTER	&	4	0880	B 700	GEN	1534
8069	60	54	ISCTU	MVDWN	X1,X3	&				MACRO	
8070			ISCTU	LCA	0&X1,0&X3	&	7	0884	L 0 0 0?0	GEN	1534
8071				SAR	X1	&	4	0891	Q 089	GEN	1534
8072				C	0&X3	&	4	0895	C 0?0	GEN	1534
8073				SAR	X3	&	4	0899	Q 099	GEN	1534
8074	60	55		LCA	1&X1,2&X3	&	7	0903	L 0 1 0?2		1534
8075	60	56		C	0&X1	&	4	0910	C 0 0		1535
8076	60	57		SAR	X1	&	4	0914	Q 089		1535
8077	60	58		B	START	&	4	0918	B 838		1535
8078	60	59		LTORG	*	&			0922		
			CODE &	DCW	#04	&	4	0925		AREA	1535
				DCW	@DOMSK@	&	5	0930		LIT	1535
8079	60	60	SYS1	DCW	@}@	&	1	0931		GMARK	1535
8080	60	61		XFR	START	&			B 838		1536

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8081	60	62		JOB	1401 FORTRAN DO PHASE	&					
8082	60	63		FBEGN	DOMSK,X1,,X2,R,X3,,%	&				MACRO	
8083				SFX	%	%				GEN	
8084			110	DCW	@DOMSK@	%	5	0110		GEN	1539
8085			X1	EQU	089	%		0089		GEN	
8086			X2	EQU	094	%		0094		GEN	
8087			094	DCW	000	%	3	0094		GEN	1540
8088			096	DC	00	%	2	0096		GEN	1540
8089			X3	EQU	099	%		0099		GEN	
8090	60	64	*	DO PHASE	ALGORITHM						
8091	60	65	*								
8092	60	66	*		OUTER						
8093	60	67	*								
8094	60	68	*		NO SAME DIFF						
8095	60	69	*	I	B XT B XT B XT						
8096	60	70	*	N							
8097	60	71	*	N	GM T BK T IN T BK						
8098	60	72	*	E	EZ B BK B IN B BK						
8099	60	73	*	R	HD - BK - IN - BK						
8100	60	74	*								
8101	60	75		ORG	XBEGIN	%			0838		
8102	60	76	INITL	SW	GM1,GM2	%	7	0838	, V98 W26		1541
8103	60	77		SW	GM3,GM4	%	7	0845	, W31 W22		1541
8104	60	78		MCW	X3,HEX3#3	%	7	0852	M 099 W37		1541
8105	60	79	START	BWZ	OUT,000&X1,1	%	8	0859	V V33 0 0 1		1541
8106	60	80		MCW	@<@,2&X1	%	7	0867	M W38 0 2		1541
8107	60	81		SBR	KLOBR&6,2&X1	%	7	0874	H S65 0 2		1542
8108	60	82		C	000&X1	%	4	0881	C 0 0		1542
8109	60	83		SAR	X1	%	4	0885	Q 089		1542
8110	60	84		C	002&X1,@D@	%	7	0889	C 0 2 W39		1542
8111	60	85		BU	DUN	%	5	0896	B V26 /		1542
8112	60	86		CW	XDOAD1,XDOAD2	%	7	0901	) 111 112		1542
8113	60	87		CW	XDOAD3,XDOINI	%	7	0908	) 113 114		1543
8114	60	88		MCW	005&X1,X2	%	7	0915	M 0 5 094		1543
8115	60	89		MCW	000&X2,TOP#3	%	7	0922	M 0!0 W42		1543
8116	60	90		MCW	000&X1,X2	%	7	0929	M 0 0 094		1543
8117	60	91		SAR	X1	%	4	0936	Q 089		1543
8118	60	92		MCW	000&X2,BOTM#3	%	7	0940	M 0!0 W45		1543
8119	60	93		ZA	TOP,ACCUM#3	%	7	0947	? W42 W48		1544
8120	60	94		S	BOTM,ACCUM	%	7	0954	S W45 W48		1544
8121	60	95		MCW	@N@,SWTCH	%	7	0961	M W49 S12		1544
8122	60	96		BWZ	ERR1,ACCUM,B	%	8	0968	V T97 W48 B		1544
8123	60	97		MCW	X1,X2	%	7	0976	M 089 094		1544
8124	60	98		MCW	@ @,EXIT	%	7	0983	M W52 W21		1545
8125	60	99		MCW	@T@,GOBAK-3	%	7	0990	M W53 W27		1545
8126	61	00		MCW	@B@,NOAPX	%	7	0997	M W54 S16		1545
8127	61	01	LOOP	C	000&X2	%	4	1004	C 0!0		1545
8128	61	02		C		%	1	1008	C		1545
8129	61	03		SAR	X2	%	4	1009	Q 094		1545
8130	61	04		C	002&X2,@D@	%	7	1013	C 0!2 W39		1545

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8131	61	05		BU	DIFNT	%	5	1020	B   90 /		1546
8132	61	06		MCW	000&X2,X3	%	7	1025	M 0!0 099		1546
8133	61	07		C	000&X3,TOP	%	7	1032	C 0?0 W42		1546
8134	61	08		BH	LOOP	%	5	1039	B   04 U		1546
8135	61	09		C	000&X3,BOTM	%	7	1044	C 0?0 W45		1546
8136	61	10		BH	ERR2	%	5	1051	B U42 U		1546
8137	61	11		BCE	RUDIF,1&X2,H	%	8	1056	B   71 0!1 H		1547
8138	61	12		MCW	@E@,1&X2	%	7	1064	M W55 0!1		1547
8139	61	13	RUDIF	BL	DIFNT	%	5	1071	B   90 T		1547
8140	61	14		MCW	@H@,1&X2	%	7	1076	M W56 0!1		1547
8141	61	15		MCW	5&X2,EXIT	%	7	1083	M 0!5 W21		1547
8142	61	16	DIFNT	BCE	MDIFY,4&X1,H	%	8	1090	B /20 0!4 H		1548
8143	61	17		MCW	@N@,NOAPX	%	7	1098	M W49 S16		1548
8144	61	18		BCE	MDIFY,4&X1,}	%	8	1105	B /20 0!4 }	GMARK	1548
8145	61	19		MCW	@B@,GOBAK-3	%	7	1113	M W54 W27		1548
8146	61	20	MDIFY	MCW	BOTM,MASK	%	7	1120	M W45 W34		1548
8147	61	21		SW	006&X1	%	4	1127	, 0!6		1549
8148	61	22		MCW	008&X1,MASK-9	%	7	1131	M 0!8 W25		1549
8149	61	23		MCW	008&X1,GOBAK	%	7	1138	M 0!8 W30		1549
8150	61	24	CKSYN	B	TEST	%	4	1145	B T01		1549
8151	61	25		DCW	@,@	%	1	1149			1549
8152	61	26		DCW	&I	%	3	1152	W18		1549
8153	61	27		B	TEST	%	4	1153	B T01		1549
8154	61	28		DCW	@#@	%	1	1157			1550
8155	61	29		DCW	&M1	%	3	1160	W09		1550
8156	61	30		B	TEST	%	4	1161	B T01		1550
8157	61	31		DCW	@,@	%	1	1165			1550
8158	61	32		DCW	&M2	%	3	1168	W12		1550
8159	61	33		BWZ	M3IS1,000&X1,1	%	8	1169	V T86 0!0 1		1550
8160	61	34		B	TEST	%	4	1177	B T01		1550
8161	61	35		DCW	@,@	%	1	1181			1551
8162	61	36		DCW	&M3	%	3	1184	W15		1551
8163	61	37		BWZ	SEND,000&X1,1	%	8	1185	V /97 0!0 1		1551
8164	61	38		B	ERROR	%	4	1193	B U80		1551
8165	61	39	SEND	MCW	HEX3,X3	%	7	1197	M W37 099		1551
8166	61	40		MN	000&X1	%	4	1204	D 0!0		1551
8167	61	41		SAR	X1	%	4	1208	Q 089		1551
8168	61	42	SWTCH	NOP	KLOBR	%	4	1212	N S59		1552
8169	61	43	NOAPX	NOP	REG	%	4	1216	N S40		1552
8170	61	44		A	&1,GNSTMZ	%	7	1220	A W57 151		1552
8171	61	45		LCA	MASK,000&X3	%	7	1227	L W34 0?0		1552
8172	61	46		CHAIN	2	%				MACRO	
8173				LCA		%	1	1234	L	GEN	1552
8174				LCA		%	1	1235	L	GEN	1552
8175	61	47		SBR	X3	%	4	1236	H 099		1552
8176	61	48	REG	LCA	GM2-1,0&X3	%	7	1240	L W25 0?0		1553
8177	61	49		CHAIN	8	%				MACRO	
8178				LCA		%	1	1247	L	GEN	1553
8179				LCA		%	1	1248	L	GEN	1553
8180				LCA		%	1	1249	L	GEN	1553

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8181				LCA		%	1	1250	L	GEN	1553
8182				LCA		%	1	1251	L	GEN	1553
8183				LCA		%	1	1252	L	GEN	1553
8184				LCA		%	1	1253	L	GEN	1554
8185				LCA		%	1	1254	L	GEN	1554
8186	61	50		SBR	HEX3	%	4	1255	H W37		1554
8187	61	51	KLOBR	BCE	START,0,<	%	8	1259	B 859 000 <		1554
8188	61	52		FQUIT		%				MACRO	
8189				CS	332	%	4	1267	/ 332	GEN	1554
8190				CS		%	1	1271	/	GEN	1554
8191				CC	1	%	2	1272	F 1	GEN	1554
8192				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	%	7	1274	M W93 270	GEN	1555
8193				W		%	1	1281	2	GEN	1555
8194				CC	1	%	2	1282	F 1	GEN	1555
8195				BCE	*&6,MONTOR,1	%	8	1284	B S97 769 1	GEN	1555
8196				RWD	1	%	5	1292	U %U1 R	GEN	1555
8197				H	*-3	%	4	1297	. S97	GEN	1555
8198	61	53	TEST	SBR	X2	%	4	1301	H 094		1555
8199	61	54		C	000&X1,000&X2	%	7	1305	C 0 0 0!0		1556
8200	61	55		SAR	X1	%	4	1312	Q 089		1556
8201	61	56		BU	ERROR	%	5	1316	B U80 /		1556
8202	61	57		MCW	003&X2,*&7	%	7	1321	M 0!3 T34		1556
8203	61	58		MCW	000&X1,000	%	7	1328	M 0 0 000		1556
8204	61	59		S	COUNT#1	%	4	1335	S W94		1556
8205	61	60	OK	A	&1,COUNT	%	7	1339	A W57 W94		1557
8206	61	61		BCE	004&X2,COUNT,D	%	8	1346	B 0!4 W94 D		1557
8207	61	62		MN	000&X1,RUOK&7	%	7	1354	D 0 0 T72		1557
8208	61	63		SAR	X1	%	4	1361	Q 089		1557
8209	61	64	RUOK	BCE	OK,@0123456789@,0	%	8	1365	B T39 X04 0		1557
8210	61	65		CHAIN	9	%				MACRO	
8211				BCE		%	1	1373	B	GEN	1557
8212				BCE		%	1	1374	B	GEN	1557
8213				BCE		%	1	1375	B	GEN	1558
8214				BCE		%	1	1376	B	GEN	1558
8215				BCE		%	1	1377	B	GEN	1558
8216				BCE		%	1	1378	B	GEN	1558
8217				BCE		%	1	1379	B	GEN	1558
8218				BCE		%	1	1380	B	GEN	1558
8219				BCE		%	1	1381	B	GEN	1558
8220	61	66		B	ERROR	%	4	1382	B U80		1559
8221	61	67	M3IS1	MCW	ONEADR,M3	%	7	1386	M 142 W15		1559
8222	61	68		B	SEND	%	4	1393	B /97		1559
8223	61	69	ERR1	FTMSG	38,ILLEGAL RANGE OF DO,TOP,21	%				MACRO	
8224			ERR1	CS	332	%	4	1397	/ 332	GEN	1559
8225				CS		%	1	1401	/	GEN	1559
8226				SW	FAILSW	%	4	1402	, 184	GEN	1559
8227				MN	TOP,224&21	%	7	1406	D W42 245	GEN	1559
8228				MN		%	1	1413	D	GEN	1560
8229				MN		%	1	1414	D	GEN	1560
8230				MCW	@ERROR 38 - ILLEGAL RANGE OF DO, STATEMENT @	%	4	1415	M X46	GEN	1560

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8231				W		%	1	1419	2	GEN	1560
8232				BCV	*&5	%	5	1420	B U29 @	GEN	1560
8233				B	*&3	%	4	1425	B U31	GEN	1560
8234				CC	1	%	2	1429	F 1	GEN	1560
8235	61	70	AVOID	MCW	@B@,SWTCH	%	7	1431	M W54 S12		1561
8236	61	71		B	CKSYN	%	4	1438	B /45		1561
8237	61	72	ERR2	FTMSG	39,ILLEGAL NESTING,TOP,17	%				MACRO	
8238			ERR2	CS	332	%	4	1442	/ 332	GEN	1561
8239				CS		%	1	1446	/	GEN	1561
8240				SW	FAILSW	%	4	1447	, 184	GEN	1561
8241				MN	TOP,224&17	%	7	1451	D W42 241	GEN	1561
8242				MN		%	1	1458	D	GEN	1561
8243				MN		%	1	1459	D	GEN	1562
8244				MCW	@ERROR 39 - ILLEGAL NESTING, STATEMENT @	%	4	1460	M X84	GEN	1562
8245				W		%	1	1464	2	GEN	1562
8246				BCV	*&5	%	5	1465	B U74 @	GEN	1562
8247				B	*&3	%	4	1470	B U76	GEN	1562
8248				CC	1	%	2	1474	F 1	GEN	1562
8249	61	73		B	AVOID	%	4	1476	B U31		1562
8250	61	74	ERROR	FTMSG	40,DO SYNTAX,TOP,11	%				MACRO	
8251			ERROR	CS	332	%	4	1480	/ 332	GEN	1563
8252				CS		%	1	1484	/	GEN	1563
8253				SW	FAILSW	%	4	1485	, 184	GEN	1563
8254				MN	TOP,224&11	%	7	1489	D W42 235	GEN	1563
8255				MN		%	1	1496	D	GEN	1563
8256				MN		%	1	1497	D	GEN	1563
8257				MCW	@ERROR 40 - DO SYNTAX, STATEMENT @	%	4	1498	M Y16	GEN	1563
8258				W		%	1	1502	2	GEN	1564
8259				BCV	*&5	%	5	1503	B V12 @	GEN	1564
8260				B	*&3	%	4	1508	B V14	GEN	1564
8261				CC	1	%	2	1512	F 1	GEN	1564
8262	61	75		C	001&X1	%	4	1514	C 0 1		1564
8263	61	76		SAR	X1	%	4	1518	Q 089		1564
8264	61	77		B	KLOBR	%	4	1522	B S59		1564
8265	61	78	DUN	SBR	X1,5&X1	%	7	1526	H 089 0 5		1565
8266	61	79	OUT	MCW	HEX3,X3	%	7	1533	M W37 099		1565
8267	61	80		MN	0&X3	%	4	1540	D 0?0		1565
8268	61	81		SAR	X2	%	4	1544	Q 094		1565
8269	61	82	KLEAR	CS	0&X2	%	4	1548	/ 0!0		1565
8270	61	83		SBR	X2	%	4	1552	H 094		1565
8271	61	84		C	0&X2,DOEND	%	7	1556	C 0!0 Y99		1565
8272	61	85		BU	KLEAR	%	5	1563	B V48 /		1566
8273	61	86		FENDX	E,GM1,, ,BEGINZ,,TABELZ,RESORT 1	%				MACRO	
8274				BSS	333,E	%	5	1568	B 333 E	GEN	1566
8275				SBR	INITXT&3,BEGINZ	%	7	1573	H 796 /75	GEN	1566
8276				SBR	TCLEAR,TABELZ	%	7	1580	H 710 M99	GEN	1566
8277				LCA	@RESORT 1@,110	%	7	1587	L Y24 110	GEN	1566
8278				B	MONTER	%	4	1594	B 700	GEN	1566
8279	61	87	GM1	DC	@}@ GROUP MK	%	1	1598		GMARK	1566
8280	61	88		DCW	@T@	%	1	1599			1566

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8281	61	89		DC	DOADR1	%	3	1602	924		1567
8282	61	90		DCW	@T@	%	1	1603			1567
8283	61	91		DC	DOADR2	%	3	1606	921		1567
8284	61	92	M1	DCW	#3	%	3	1609			1567
8285	61	93	M2	DCW	#3	%	3	1612			1567
8286	61	94	M3	DCW	#3	%	3	1615			1567
8287	61	95	I	DCW	#3	%	3	1618			1568
8288	61	96	EXIT	DCW	#3	%	3	1621			1568
8289	61	97	GM4	DC	@}@ GROUP MK	%	1	1622		GMARK	1568
8290	61	98		DC	#3 XYZ OF INTERNAL NUMBER	%	3	1625			1568
8291	61	99	GM2	DC	@}@ GROUP MK	%	1	1626		GMARK	1568
8292	62	00		DCW	@T@	%	1	1627			1568
8293	62	01	GOBAK	DC	#3	%	3	1630			1568
8294	62	02	GM3	DC	@}@ GROUP MK	%	1	1631		GMARK	1568
8295	62	03	MASK	DC	#3	%	3	1634			1568
8296	62	04		LTORG	*	%			1635		
			HEX3	% DCW	#03	%	3	1637		AREA	1568
				DCW	@<@	%	1	1638		LIT	1568
				DCW	@D@	%	1	1639		LIT	1568
			TOP	% DCW	#03	%	3	1642		AREA	1568
			BOTM	% DCW	#03	%	3	1645		AREA	1569
			ACCUM	% DCW	#03	%	3	1648		AREA	1569
				DCW	@N@	%	1	1649		LIT	1569
				DCW	@ @	%	3	1652		LIT	1569
				DCW	@T@	%	1	1653		LIT	1569
				DCW	@B@	%	1	1654		LIT	1569
				DCW	@E@	%	1	1655		LIT	1569
				DCW	@H@	%	1	1656		LIT	1570
				DCW	&1	%	1	1657		LIT	1570
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	%	36	1693		LIT	1570
			COUNT	% DCW	#01	%	1	1694		AREA	1570
				DCW	@0123456789@	%	10	1704		LIT	1571
				DCW	@ERROR 38 - ILLEGAL RANGE OF DO, STATEMENT @	%	42	1746		LIT	1573
				DCW	@ERROR 39 - ILLEGAL NESTING, STATEMENT @	%	38	1784		LIT	1574
				DCW	@ERROR 40 - DO SYNTAX, STATEMENT @	%	32	1816		LIT	1575
				DCW	@RESORT 1@	%	8	1824		LIT	1576
8297	62	05		DCW	@}@	%	1	1825		GMARK	1576
8298	62	06		ORG	*&X00	%			1900		
8299	62	07	DOEND	EQU	*	%		1899			
8300	62	08		XFR	INITL	%			B 838		1577

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8301	62	09		JOB	1401 FORTRAN RESORT PHASE ONE	%					
8302	62	10		FBEGN	RESORT 1,X1,,X2,,X3,,Z	%				MACRO	
8303				SFX	Z	Z				GEN	
8304			110	DCW	@RESORT 1@	Z	8	0110		GEN	1580
8305			X1	EQU	089	Z		0089		GEN	
8306			X2	EQU	094	Z		0094		GEN	
8307			X3	EQU	099	Z		0099		GEN	
8308	62	11		ORG	XBEGIN	Z			0838		
8309	62	12	THREE	DCW	0	Z	1	0838			1581
8310	62	13	COUNT	DCW	000	Z	3	0841			1581
8311	62	14	ASIDE	DCW	000	Z	3	0844			1581
8312	62	15	TBL1	DCW	000	Z	3	0847			1581
8313	62	16	LAST	DCW	000	Z	3	0850			1581
8314	62	17	STORE	DCW	000	Z	3	0853			1581
8315	62	18	SAUCE	DCW	000	Z	3	0856			1581
8316	62	19	DIFF	DCW	000	Z	3	0859			1582
8317	62	20	ADDIN	DCW	000	Z	3	0862			1582
8318	62	21	INTNO	DCW	000	Z	3	0865			1582
8319	62	22	FROMX	EQU	SAUCE	Z		0856			
8320	62	23	WKBK1	DCW	00000	Z	5	0870			1582
8321	62	24	WKBK2	DCW	00000	Z	5	0875			1582
8322	62	25	AREA1	DCW	00000	Z	5	0880			1582
8323	62	26	ADRES	EQU	BSAUCE	Z		0148			
8324	62	27	TBL2	DCW	000	Z	3	0883			1582
8325	62	28	TEST1	DCW	0	Z	1	0884			1583
8326	62	29	ZONE	DCW	99	Z	2	0886			1583
8327	62	30	HOLD	DCW	@ @	Z	5	0891			1583
8328	62	31	CNVRT	DCW	@ @	Z	5	0896			1583
8329	62	32	TABLE	DCW	9	Z	1	0897			1583
8330	62	33		DC	9	Z	1	0898			1583
8331	62	34		DCW	@Z9@	Z	2	0900			1583
8332	62	35		DCW	@R9@	Z	2	0902			1583
8333	62	36		DCW	@I9@	Z	2	0904			1584
8334	62	37		DCW	@9Z@	Z	2	0906			1584
8335	62	38		DCW	@ZZ@	Z	2	0908			1584
8336	62	39		DCW	@RZ@	Z	2	0910			1584
8337	62	40		DCW	@IZ@	Z	2	0912			1584
8338	62	41		DCW	@9R@	Z	2	0914			1584
8339	62	42		DCW	@ZR@	Z	2	0916			1584
8340	62	43		DCW	@RR@	Z	2	0918			1585
8341	62	44		DCW	@IR@	Z	2	0920			1585
8342	62	45		DCW	@9I@	Z	2	0922			1585
8343	62	46		DCW	@ZI@	Z	2	0924			1585
8344	62	47		DCW	@RI@	Z	2	0926			1585
8345	62	48		DCW	@II@	Z	2	0928			1585
8346	62	49	K5TOK3	SBR	CMBCK&3	Z	4	0929	H 968		1585
8347	62	50		ZA	CNVRT-3,X1	Z	7	0933	? 893 089		1586
8348	62	51		MZ	@ @,X1	Z	7	0940	Y /26 089		1586
8349	62	52		A	X1	Z	4	0947	A 089		1586
8350	62	53		MZ	TABLE&X1,CNVRT-2	Z	7	0951	Y 8Z7 894		1586

CONVERT FIVE DIGIT NUMBER  
TO THREE DIGIT ADRES  
BLANK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8351	62	54		MZ	TABLE&1&X1,CNVRT	Z	7	0958	Y 8Z8 896		1586
8352	62	55	CMBCK	B	0000	Z	4	0965	B 000		1586
8353	62	56	EXPND	SBR	CZONE&10	Z	4	0969	H  24		1587
8354	62	57		MLC	@ @,HOLD	Z	7	0973	M /31 891		1587
8355	62	58		MN	CNVRT,HOLD	Z	7	0980	D 896 891		1587
8356	63	59		MN		Z	1	0987	D		1587
8357	62	60		MN		Z	1	0988	D		1587
8358	62	61		MZ	CNVRT,ZONE	Z	7	0989	Y 896 886		1587
8359	62	62		MZ	CNVRT-2,ZONE-1	Z	7	0996	Y 894 885		1587
8360	62	63		MLC	&TABLE&1,CZONE&6	Z	7	1003	M /34  20		1588
8361	62	64		S	CNVRT	Z	4	1010	S 896		1588
8362	62	65	CZONE	C	ZONE,000	Z	7	1014	C 886 000		1588
8363	62	66		BE	000	Z	5	1021	B 000 S		1588
8364	62	67		A	@1@,HOLD-3	Z	7	1026	A /35 888		1588
8365	62	68		SW	CZONE&4	Z	4	1033	,  18		1588
8366	62	69		A	@002@,CZONE&6	Z	7	1037	A /38  20		1589
8367	62	70		CW	CZONE&4	Z	4	1044	)  18		1589
8368	62	71		B	CZONE	Z	4	1048	B  14		1589
8369	62	72	IMVUP	SBR	HERE&3	Z	4	1052	H  91		1589
8370	62	73		MN	0&X3	Z	4	1056	D 0?0		1589
8371	62	74		SAR	X3	Z	4	1060	Q 099		1589
8372	62	75	REMCK	MCM	1&X3	Z	4	1064	P 0?1		1589
8373	62	76		MN		Z	1	1068	D		1590
8374	62	77		SBR	X3	Z	4	1069	H 099		1590
8375	62	78		BCE	REMCK,0&X3,	Z	8	1073	B  64 0?0		1590
8376	62	79		SBR	X3,1&X3	Z	7	1081	H 099 0?1		1590
8377	62	80	HERE	B	0	Z	4	1088	B 000		1590
8378	62	81	ERRMS	FQUIT		Z				MACRO	
8379			ERRMS	CS	332	Z	4	1092	/ 332	GEN	1590
8380				CS		Z	1	1096	/	GEN	1590
8381				CC	1	Z	2	1097	F 1	GEN	1591
8382				MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	Z	7	1099	M /74 270	GEN	1591
8383				W		Z	1	1106	2	GEN	1591
8384				CC	1	Z	2	1107	F 1	GEN	1591
8385				BCE	*&6,MONTOR,1	Z	8	1109	B /22 769 1	GEN	1591
8386				RWD	1	Z	5	1117	U %U1 R	GEN	1591
8387				H	*-3	Z	4	1122	. /22	GEN	1591
8388	62	82		LTORG	*	Z			1126		
				DCW	@ @	Z	1	1126		LIT	1592
				DCW	@ @	Z	5	1131		LIT	1592
				DCW	&TABLEZ&1	Z	3	1134	898	ADCON	1592
				DCW	@1@	Z	1	1135		LIT	1592
				DCW	@002@	Z	3	1138		LIT	1592
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	Z	36	1174		LIT	1593
8389	62	83	BEGIN	SBR	SAUCE,0&X3	Z	7	1175	H 856 0?0		1594
8390	62	84		SBR	X1,END	Z	7	1182	H 089 M99		1594
8391	62	85		SBR	TBL1	Z	4	1189	H 847		1594
8392	62	86		MLC	INTST,TMS3&6	Z	7	1193	M 183 S13		1594
8393	62	87		MZ	@Z@,TMS3&5	Z	7	1200	Y V23 S12		1594
8394	62	88	TMS3	SBR	X1,0	Z	7	1207	H 089 000		1594

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8395	62	89		A	@1@,THREE	Z	7	1214	A V24 838		1595
8396	62	90		C	THREE,@3@	Z	7	1221	C 838 V25		1595
8397	62	91		BH	TMS3	Z	5	1228	B S07 U		1595
8398	62	92		SBR	COUNT,0&X1	Z	7	1233	H 841 0 0		1595
8399	62	93		SBR	TBL2,1&X1	Z	7	1240	H 883 0 1		1595
8400	62	94		MLC	@ @,THREE	Z	7	1247	M V26 838		1596
8401	62	95		BCE	*&5,GNSTM,	Z	8	1254	B S66 151		1596
8402	62	96		B	*&27	Z	4	1262	B S92		1596
8403	62	97		SBR	ADDIN,1&X1	Z	7	1266	H 862 0 1		1596
8404	62	98		SBR	CNVRT	Z	4	1273	H 896		1596
8405	62	99		B	EXPND	Z	4	1277	B 969		1596
8406	63	00		MLC	HOLD,WKBK1	Z	7	1281	M 891 870		1597
8407	63	01		B	ROOM	Z	4	1288	B T61		1597
8408	63	02		MLC	GNSTM,WKBK2	Z	7	1292	M 151 875		1597
8409	63	03		A	WKBK2	Z	4	1299	A 875		1597
8410	63	04		A	WKBK2	Z	4	1303	A 875		1597
8411	63	05		A	GNSTM	Z	4	1307	A 151		1597
8412	63	06		A	GNSTM,WKBK2	Z	7	1311	A 151 875		1597
8413	63	07		SBR	CNVRT,1&X1	Z	7	1318	H 896 0 1		1598
8414	63	08		B	EXPND	Z	4	1325	B 969		1598
8415	63	09		MLC	HOLD,WKBK1	Z	7	1329	M 891 870		1598
8416	63	10		A	WKBK2,WKBK1	Z	7	1336	A 875 870		1598
8417	63	11		MLC	WKBK1,CNVRT	Z	7	1343	M 870 896		1598
8418	63	12		B	K5TOK3	Z	4	1350	B 929		1598
8419	63	13		MLC	CNVRT,ADDIN	Z	7	1354	M 896 862		1599
8420	63	14	ROOM	MLC	SAUCE,CNVRT	Z	7	1361	M 856 896		1599
8421	63	15		B	EXPND	Z	4	1368	B 969		1599
8422	63	16		MLC	HOLD,AREA1	Z	7	1372	M 891 880		1599
8423	63	17		C	WKBK1,AREA1	Z	7	1379	C 870 880		1599
8424	63	18		BH	*&5	Z	5	1386	B T95 U		1599
8425	63	19		B	ERRMS	Z	4	1391	B  92		1600
8426	63	20		MESSG	@STARTING ADDRESS OF STATEMENTS@,43,1,K	Z				MACRO	
8427				CC	1	Z	2	1395	F 1	GEN	1600
8428				CS	332	Z	4	1397	/ 332	GEN	1600
8429				CS		Z	1	1401	/	GEN	1600
8430				MCW	@STARTING ADDRESS OF STATEMENTS@,43&200	Z	7	1402	M V56 243	GEN	1600
8431				W		Z	1	1409	2	GEN	1600
8432				CC	K	Z	2	1410	F K	GEN	1600
8433	63	21		CS	332	Z	4	1412	/ 332		1601
8434	63	22		CS		Z	1	1416	/		1601
8435	63	23		MCW	@SEQ@,208	Z	7	1417	M V59 208		1601
8436	63	24		MCW	@STARTING ADDRESS@,242	Z	7	1424	M V75 242		1601
8437	63	25		MCW	@DISPLAY@,256	Z	7	1431	M V82 256		1601
8438	63	26		W		Z	1	1438	2		1601
8439	63	27		CC	J	Z	2	1439	F J		1601
8440	63	28		CS	332	Z	4	1441	/ 332		1602
8441	63	29		CS		Z	1	1445	/		1602
8442	63	30		LCA	@000@,208	Z	7	1446	L V85 208		1602
8443	63	31		MLC	FROMX,X1	Z	7	1453	M 856 089		1602
8444	63	32		SBR	X1,2&X1	Z	7	1460	H 089 0 2		1602

GMWM1&amp;1 TOP

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8445	63	33		SBR	X3	Z	4	1467	H 099		1602
8446	63	34		B	IMVUP	Z	4	1471	B  52		1602
8447	63	35		MLC	X3,X2	Z	7	1475	M 099 094		1603
8448	63	36		FENDX	C,,BEGIN,BEGIN,BEGIN,SYS1,RESORT 2	Z				MACRO	
8449				BSS	333,C	Z	5	1482	B 333 C	GEN	1603
8450				SBR	INITAP&6,BEGIN	Z	7	1487	H 786 /75	GEN	1603
8451				SBR	BCLEAR	Z	4	1494	H 833	GEN	1603
8452				SBR	INITXT&3,BEGIN	Z	7	1498	H 796 /75	GEN	1603
8453				SBR	TCLEAR,SYS1	Z	7	1505	H 710 V94	GEN	1603
8454				LCA	@RESORT 2@,110	Z	7	1512	L V93 110	GEN	1604
8455				B	MONTER	Z	4	1519	B 700	GEN	1604
8456	63	37		LTORG	*	Z			1523		
				DCW	@Z@	Z	1	1523		LIT	1604
				DCW	@1@	Z	1	1524		LIT	1604
				DCW	@3@	Z	1	1525		LIT	1604
				DCW	@ @	Z	1	1526		LIT	1604
				DCW	@STARTING ADDRESS OF STATEMENTS@	Z	30	1556		LIT	1605
				DCW	@SEQ@	Z	3	1559		LIT	1605
				DCW	@STARTING ADDRESS@	Z	16	1575		LIT	1606
				DCW	@DISPLAY@	Z	7	1582		LIT	1606
				DCW	@000@	Z	3	1585		LIT	1606
				DCW	@RESORT 2@	Z	8	1593		LIT	1606
8457	63	38	SYS1	DCW	@}@	Z	1	1594		GMARK	1606
8458	63	39		XFR	BEGIN	Z			B /75		1607

SYSTEM GROUP MARK



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8459	63	40		JOB	1401 FORTRAN RESORT PHASE TWO	Z					
8460	63	41		ORG	BEGIN	Z			1175		
8461	63	42	110	DC	2	Z	1	0110			1610
8462	63	43		MLC	TBL2,X3 ADRES OF TBL2 IN X3	Z	7	1175	M 883 099		1611
8463	63	44		B	SAVE	Z	4	1182	B S25		1611
8464	63	45	INIT	SBR	X2,2&X2	Z	7	1186	H 094 012		1611
8465	63	46		MZ	X3,ASIDE	Z	7	1193	Y 099 844		1611
8466	63	47		MLC	X2,X3	Z	7	1200	M 094 099		1611
8467	62	48		B	IMVUP	Z	4	1207	B  52		1611
8468	62	49		MLC	X3,X2 POS GMWM2&1 IN X2	Z	7	1211	M 099 094		1612
8469	62	50		MLC	ASIDE,X3	Z	7	1218	M 844 099		1612
8470	63	51	SAVE	SBR	STORE,2&X2 POS GMWM3-1 IN STORE	Z	7	1225	H 853 012		1612
8471	63	52		BWZ	*&5,0&X2,2 ZONE IN HUNS POS OF INT NO	Z	8	1232	V S44 010 2		1612
8472	63	53		B	*&9	Z	4	1240	B S52		1612
8473	63	54		BWZ	CNTNU,2&X2,2 TST FOR ZN IN UNTS POS OF INT NO	Z	8	1244	V S70 012 2		1613
8474	63	55		MLC	2&X2,X2 PCKUP INTNO FROM TBL PUT IN X2	Z	7	1252	M 012 094		1613
8475	63	56		MLC	0&X2,X2	Z	7	1259	M 010 094		1613
8476	63	57		B	*&8	Z	4	1266	B S77		1613
8477	63	58	CNTNU	MLC	2&X2,X2 PLACE INTNO IN X2	Z	7	1270	M 012 094		1613
8478	63	59		SBR	INTNO,0&X2	Z	7	1277	H 865 010		1614
8479	63	60		SBR	MLPLY&6	Z	4	1284	H T01		1614
8480	63	61		MZ	@R@,MLPLY&5	Z	7	1288	Y W55 T00		1614
8481	63	62	MLPLY	SBR	X2,0	Z	7	1295	H 094 000		1614
8482	63	63		MLC	INTNO,*&14	Z	7	1302	M 865 T22		1614
8483	63	64		MZ	@R@,*&6	Z	7	1309	Y W55 T21		1614
8484	63	65		SBR	X2,0	Z	7	1316	H 094 000		1615
8485	63	66		C	TABEL&X2,@ @ TEST FOR FILLED TABLE-BLANKS	Z	7	1323	C MR9 W58		1615
8486	63	67		BU	GNTBL	Z	5	1330	B T46 /		1615
8487	63	68		MLC	X1,TABEL&X2 HI ORD POS OF INST IN TBL1	Z	7	1335	M 089 MR9		1615
8488	63	69		B	SETX1	Z	4	1342	B T96		1615
8489	63	70	GNTBL	SW	3&X3	Z	4	1346	, 0?3		1615
8490	63	71		MLC	TABEL&X2,5&X3 GEN BRANCH SECOND IN TBL2	Z	7	1350	M MR9 0?5		1616
8491	63	72		CW	3&X3	Z	4	1357	) 0?3		1616
8492	63	73		MLC	X1,2&X3 ORIG INST FIRST IN TBL2	Z	7	1361	M 089 0?2		1616
8493	63	74		MLC	@1@,TEST1 SWTCH FOR REPLC TBL	Z	7	1368	M W59 884		1616
8494	63	75		SBR	TABEL&X2,2&X3 LOW ORDER POS OF ENTRY1, TBL2	Z	7	1375	H MR9 0?2		1616
8495	63	76		MZ	@Z@,TABEL-1&X2 A ZONE IN TENS POS OF TBL1	Z	7	1382	Y W60 MR8		1616
8496	63	77		SBR	X3,6&X3	Z	7	1389	H 099 0?6		1617
8497	63	78	SETX1	MLC	STORE,X2	Z	7	1396	M 853 094		1617
8498	63	79		C	ADRES,STORE	Z	7	1403	C 148 853		1617
8499	63	80		BU	RESET	Z	5	1410	B V90 /		1617
8500	63	81		BCE	CTOAL,TEST1,0	Z	8	1415	B U48 884 0		1617
8501	63	82		MLC	@0@,TEST1	Z	7	1423	M W61 884		1618
8502	63	83		MLC	X1,X3	Z	7	1430	M 089 099		1618
8503	63	84		B	IMVUP	Z	4	1437	B  52		1618
8504	63	85		MZ	@Z@,1&X3	Z	7	1441	Y W60 0?1		1618
8505	63	86	CTOAL	MLC	ADDIN,X2	Z	7	1448	M 862 094		1618
8506	63	87		LCA	@:@,0&X2 5-8 WITH WM ABOVE PROGRAM	Z	7	1455	L W62 010		1618
8507	63	88		MLC	TBL1,X3 ADRES ONE POS ABOVE TABLE 1	Z	7	1462	M 847 099		1619
8508	63	89		SBR	X3,3&X3	Z	7	1469	H 099 0?3		1619

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8509	63	90		MLC	86,CNVRT TRUE STARTING ADRES	Z	7	1476	M 086 896		1619
8510	63	91		B	EXPND	Z	4	1483	B 969		1619
8511	63	92		MLC	HOLD,WK BK1	Z	7	1487	M 891 870		1619
8512	63	93		SBR	CNVRT,0&X2	Z	7	1494	H 896 010		1619
8513	63	94		B	EXPND	Z	4	1501	B 969		1620
8514	63	95		MLC	HOLD,WK BK2	Z	7	1505	M 891 875		1620
8515	63	96		S	WK BK2,WK BK1	Z	7	1512	S 875 870		1620
8516	63	97		BWZ	*&5,WK BK1,K IS DIFF NEG	Z	8	1519	V V31 870 K		1620
8517	63	98		B	*&8	Z	4	1527	B V38		1620
8518	63	99		A	@16000@,WK BK1	Z	7	1531	A W67 870		1620
8519	64	00		MLC	WK BK1,CNVRT	Z	7	1538	M 870 896		1621
8520	64	01		B	K5TOK3	Z	4	1545	B 929		1621
8521	64	02		MLC	CNVRT,DIFF DIFF BET ACT AND FIXED ADRES	Z	7	1549	M 896 859		1621
8522	64	03		SBR	X2,1&X2 HIGH ORD ADRES OF SORTED PROGRAM	Z	7	1556	H 094 011		1621
8523	64	04		SBR	INTST	Z	4	1563	H 183		1621
8524	64	05		FENDX	C,,,,,SYS2,RESORT 3	Z				MACRO	
8525				BSS	333,C	Z	5	1567	B 333 C	GEN	1621
8526				SBR	TCLEAR,SYS2	Z	7	1572	H 710 W76	GEN	1622
8527				LCA	@RESORT 3@,110	Z	7	1579	L W75 110	GEN	1622
8528				B	MONTER	Z	4	1586	B 700	GEN	1622
8529	64	06	RESET	MLC	X3,ASIDE	Z	7	1590	M 099 844		1622
8530	64	07		MLC	X1,X3	Z	7	1597	M 089 099		1622
8531	64	08		B	IMVUP SET X1 TO GMWM1&1 OF NXT INSTR	Z	4	1604	B 152		1622
8532	64	09		MLC	X3,X1	Z	7	1608	M 099 089		1623
8533	64	10		MLC	ASIDE,X3	Z	7	1615	M 844 099		1623
8534	64	11		BCE	*&15,TEST1,0	Z	8	1622	B W44 884 0		1623
8535	64	12		MLC	@0@,TEST1	Z	7	1630	M W61 884		1623
8536	64	13		MZ	@Z@,1&X1	Z	7	1637	Y W60 011		1623
8537	64	14		SBR	X1,4&X1	Z	7	1644	H 089 014		1624
8538	64	15		B	INIT	Z	4	1651	B /86		1624
8539	64	16		LTORG	*	Z			1655		
				DCW	@R@	Z	1	1655		LIT	1624
				DCW	@ @	Z	3	1658		LIT	1624
				DCW	@1@	Z	1	1659		LIT	1624
				DCW	@Z@	Z	1	1660		LIT	1624
				DCW	@0@	Z	1	1661		LIT	1624
				DCW	@:@	Z	1	1662		LIT	1625
				DCW	@16000@	Z	5	1667		LIT	1625
				DCW	@RESORT 3@	Z	8	1675		LIT	1625
8540	64	17	SYS2	DCW	@}@	Z	1	1676		GMARK	1625
8541	64	18		XFR	BEGIN	Z			B /75		1626

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8542	64	19		JOB	1401 FORTRAN RESORT PHASE THREE	Z					
8543	64	20		ORG	BEGIN	Z			1175		
8544	64	21	110	DC	@3@	Z	1	0110			1629
8545	64	22		SW	GMWM	Z	4	1175	, M68		1630
8546	64	23		B	NEXT&7	Z	4	1179	B /90		1630
8547	64	24	NEXT	SBR	X3,0 RE-INIT X3	Z	7	1183	H 099 000		1630
8548	64	25		SBR	LAST	Z	4	1190	H 850		1630
8549	64	26		BCE	ADONE,0&X3, TST FOR BLANKS IN TBL	Z	8	1194	B Z30 0?0		1630
8550	64	27		SBR	NEXT&6,3&X3	Z	7	1202	H /89 0?3		1630
8551	64	28		MN	0&X3	Z	4	1209	D 0?0		1630
8552	64	29		SAR	*&7	Z	4	1213	Q S23		1631
8553	64	30		BWZ	CASE2,0,S A ZONE IN TENS POS OF TBL1	Z	8	1217	V Y26 000 S		1631
8554	64	31		MLC	0&X3,X1 PLACE HI ORD POS OF INST IN X1	Z	7	1225	M 0?0 089		1631
8555	64	32		SBR	ADDIN,0&X3	Z	7	1232	H 862 0?0		1631
8556	64	33		MLC	X1,PREP1#3 SAVE X1	Z	7	1239	M 089 M47		1631
8557	64	34	SPACE	MLC	X1,X3	Z	7	1246	M 089 099		1632
8558	64	35		B	IMVUP	Z	4	1253	B  52		1632
8559	64	36		MLC	X3,CNVRT	Z	7	1257	M 099 896		1632
8560	64	37		B	EXPND	Z	4	1264	B 969		1632
8561	64	38		MLC	HOLD,AREA1	Z	7	1268	M 891 880		1632
8562	64	39		A	@1@,AREA1	Z	7	1275	A M48 880		1632
8563	64	40		MLC	PREP1,CNVRT	Z	7	1282	M M47 896		1633
8564	64	41		B	EXPND	Z	4	1289	B 969		1633
8565	64	42		MLC	HOLD,AREA2	Z	7	1293	M 891 M42		1633
8566	64	43		S	AREA2,AREA1 LNGTH OF NXT INST TO BE MOVED	Z	7	1300	S M42 880		1633
8567	64	44		MLC	X2,CNVRT NXT AVAIL POS IN SORTED AREA	Z	7	1307	M 094 896		1633
8568	64	45		B	EXPND	Z	4	1314	B 969		1633
8569	64	46		MLC	HOLD,WKBK1	Z	7	1318	M 891 870		1634
8570	64	47		B	NUFRM	Z	4	1325	B Y90		1634
8571	64	48		BL	SQUEZ	Z	5	1329	B Z71 T		1634
8572	64	49	LIST	MLC	PREP1,X1	Z	7	1334	M M47 089		1634
8573	64	50		BCE	*&12,TEST2,1 PRINT STMT NO, HI ORD ADRES	Z	8	1341	B T60 M43 1		1634
8574	64	51		A	@1@,208	Z	7	1349	A M48 208		1634
8575	64	52		B	ADDR1	Z	4	1356	B V27		1635
8576	64	53		MLC	@0@,TEST2 RESET INDICATOR	Z	7	1360	M M49 M43		1635
8577	64	54		MLC	X3,GARY&6	Z	7	1367	M 099 V26		1635
8578	64	55		MCW	3&X1,X3	Z	7	1374	M 0 3 099		1635
8579	64	56		MCW	0&X3,X3	Z	7	1381	M 0?0 099		1635
8580	64	57		SBR	3&X1,4&X3	Z	7	1388	H 0 3 0?4		1635
8581	64	58		MA	DIFF,3&X1	Z	7	1395	# 859 0 3		1636
8582	64	59		MCW	X1,HEX1#3	Z	7	1402	M 089 M52		1636
8583	64	60	ROUND	MZ	*-4,9&X3	Z	7	1409	Y U11 0?9		1636
8584	64	61		MZ	*-4,12&X3	Z	7	1416	Y U18 0A2		1636
8585	64	62		MZ	*-4,15&X3	Z	7	1423	Y U25 0A5		1636
8586	64	63		MZ	*-4,18&X3	Z	7	1430	Y U32 0A8		1637
8587	64	64		BCE	OUTER,22&X3, BLANK	Z	8	1437	B U84 0B2		1637
8588	64	65		MCW	22&X3,X1	Z	7	1445	M 0B2 089		1637
8589	64	66		MCW	0&X1,22&X3	Z	7	1452	M 0 0 0B2		1637
8590	64	67		MA	@004@,22&X3	Z	7	1459	# M55 0B2		1637
8591	64	68		MA	DIFF,22&X3	Z	7	1466	# 859 0B2		1638

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8592	64	69		MCW	0&X1,X3	Z	7	1473	M 0 0 099		1638
8593	64	70		B	ROUND	Z	4	1480	B U09		1638
8594	64	71	OUTER	SBR	22&X3,4&X2	Z	7	1484	H 0B2 0 4		1638
8595	64	72		MA	DIFF,22&X3	Z	7	1491	# 859 0B2		1638
8596	64	73		MCW	HEX1,X1	Z	7	1498	M M52 089		1638
8597	64	74		BCE	*&8,0&X1,B	Z	8	1505	B V20 0 0 B		1639
8598	64	75		SBR	3&X1,DOADR3	Z	7	1513	H 0 3 918		1639
8599	64	76	GARY	SBR	X3,0	Z	7	1520	H 099 000		1639
8600	64	77	ADDR1	MCW	DIFF,227	Z	7	1527	M 859 227		1639
8601	64	78		MA	X2,227	Z	7	1534	# 094 227		1639
8602	64	79		MCW	227,X3	Z	7	1541	M 227 099		1640
8603	64	80		MCW	X3,CNVRT	Z	7	1548	M 099 896		1640
8604	64	81		B	EXPND	Z	4	1555	B 969		1640
8605	64	82		MCS	HOLD,244	Z	7	1559	Z 891 244		1640
8606	64	83		MCW	X3,256	Z	7	1566	M 099 256		1640
8607	64	84		MA	@004@,256	Z	7	1573	# M55 256		1640
8608	64	85		W		Z	1	1580	2		1641
8609	64	86		FORMS		Z				MACRO	
8610				BCV	*&5	Z	5	1581	B V90 @	GEN	1641
8611				B	*&3	Z	4	1586	B V92	GEN	1641
8612				CC	1	Z	2	1590	F 1	GEN	1641
8613	65	87		MLC	X2,SYMBL-1	Z	7	1592	M 094 X01		1641
8614	64	88		BCE	CNTU2,0&X1,}	Z	8	1599	B W74 0 0 }	GMARK	1641
8615	64	89		MN	0&X2	Z	4	1607	D 0 0		1641
8616	64	90		SAR	X2	Z	4	1611	Q 094		1642
8617	64	91	CTNMV	MCM	0&X1	Z	4	1615	P 0 0		1642
8618	64	92		SAR	STRX1&6	Z	4	1619	Q W41		1642
8619	64	93		MCM	0&X1,1&X2	Z	7	1623	P 0 0 0 1		1642
8620	64	94		MN		Z	1	1630	D		1642
8621	64	95		SBR	X2	Z	4	1631	H 094		1642
8622	64	96	STRX1	SBR	X1,0	Z	7	1635	H 089 000		1642
8623	64	97		BCE	CTNMV,0&X2,	Z	8	1642	B W15 0 0		1643
8624	64	98		BWZ	*&5,0&X1,2	Z	8	1650	V W62 0 0 2		1643
8625	64	99		B	CHNGE	Z	4	1658	B W88		1643
8626	65	00		BWZ	SYMBL,2&X1,2	Z	8	1662	V X02 0 2 2		1643
8627	65	01		B	CHNGE	Z	4	1670	B W88		1643
8628	65	02	CNTU2	SBR	X1,1&X1	Z	7	1674	H 089 0 1		1643
8629	65	03		MLC	@B@,SYMBL&7	Z	7	1681	M M56 X09		1644
8630	65	04	CHNGE	MLC	2&X1,X3	Z	7	1688	M 0 2 099		1644
8631	65	05		SBR	0&X3,0	Z	7	1695	H 0?0 000		1644
8632	65	06	SYMBL	MLC	@:@,0&X1	Z	7	1702	M M57 0 0		1644
8633	65	07		NOP	BOTOM	Z	4	1709	N X61		1644
8634	65	08		MN	0&X1	Z	4	1713	D 0 0		1644
8635	65	09		MN		Z	1	1717	D		1644
8636	65	10		SAR	X1	Z	4	1718	Q 089		1645
8637	65	11		MN	0&X2	Z	4	1722	D 0 0		1645
8638	65	12		SAR	TRAWM&6	Z	4	1726	Q X36		1645
8639	65	13	TRAWM	LCA	0&X1,0&X2	Z	7	1730	L 0 0 0 0		1645
8640	65	14		SBR	TRAWM&6	Z	4	1737	H X36		1645
8641	65	15		C	0&X1	Z	4	1741	C 0 0		1645

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8642	65	16		SAR	X1	Z	4	1745	Q 089		1645
8643	65	17		BCE	* & 5, 0 & X1, }	Z	8	1749	B X61 0   0 }	GMARK	1646
8644	65	18		B	TRAWM	Z	4	1757	B X30		1646
8645	65	19	BOTOM	MLC	@N@, SYMBL&7	Z	7	1761	M M58 X09		1646
8646	65	20		C	LAST, COUNT	Z	7	1768	C 850 841		1646
8647	65	21		BU	TSTCS	Z	5	1775	B Y14 /		1646
8648	65	22	LDSYM	LCA	@: @, 0 & X2	Z	7	1780	L M57 0 ! 0		1646
8649	65	23		SBR	X3	Z	4	1787	H 099		1647
8650	65	24		FENDX	C, , , , , , SYSGM, RESORT 4	Z				MACRO	
8651				BSS	333, C	Z	5	1791	B 333 C	GEN	1647
8652				SBR	TCLEAR, SYSGM	Z	7	1796	H 710 M69	GEN	1647
8653				LCA	@RESORT 4@, 110	Z	7	1803	L M66 110	GEN	1647
8654				B	MONTER	Z	4	1810	B 700	GEN	1647
8655	65	25	TSTCS	BCE	PART2, TEST1, 1	Z	8	1814	B Y58 884 1		1647
8656	65	26		B	NEXT	Z	4	1822	B / 83		1647
8657	65	27	CASE2	MLC	0 & X3, X3	Z	7	1826	M 0 ? 0 099		1648
8658	65	28		MLC	0 & X3, X1	Z	7	1833	M 0 ? 0 089		1648
8659	65	29		SBR	PART2 & 10, 3 & X3	Z	7	1840	H Y68 0 ? 3		1648
8660	65	30		MLC	@1@, TEST1	Z	7	1847	M M48 884		1648
8661	65	31		B	SPACE-14	Z	4	1854	B S32		1648
8662	65	32	PART2	MLC	@0@, TEST1	Z	7	1858	M M49 884		1648
8663	65	33		MLC	0, X1	Z	7	1865	M 000 089		1649
8664	65	34		MLC	PART2 & 10, ADDIN	Z	7	1872	M Y68 862		1649
8665	65	35		MLC	@1@, TEST2	Z	7	1879	M M48 M43		1649
8666	65	36		B	SPACE-7	Z	4	1886	B S39		1649
8667	65	37	NUFRM	SBR	STREG & 3	Z	4	1890	H Z29		1649
8668	65	38		MLC	FROMX, CNVRT	Z	7	1894	M 856 896		1649
8669	65	39		B	EXPND	Z	4	1901	B 969		1650
8670	65	40		MLC	HOLD, WKBK2	Z	7	1905	M 891 875		1650
8671	65	41		S	WKBK1, WKBK2	Z	7	1912	S 870 875		1650
8672	65	42		C	AREA1, WKBK2	Z	7	1919	C 880 875		1650
8673	65	43	STREG	B	0	Z	4	1926	B 000		1650
8674	65	44	ADONE	A	@1@, 208	Z	7	1930	A M48 208		1650
8675	65	45		C	LAST, COUNT	Z	7	1937	C 850 841		1651
8676	65	46		BE	LDSYM	Z	5	1944	B X80 S		1651
8677	65	47		SBR	X3, 3 & X3	Z	7	1949	H 099 0 ? 3		1651
8678	65	48		SBR	LAST	Z	4	1956	H 850		1651
8679	65	49		B	NEXT & 11	Z	4	1960	B / 94		1651
8680	65	50	FIXIT	SBR	FROMX, 2 & X3	Z	7	1964	H 856 0 ? 2		1651
8681	65	51	SQUEZ	MLC	FROMX, X3	Z	7	1971	M 856 099		1652
8682	65	52		SBR	X3, 2 & X3	Z	7	1978	H 099 0 ? 2		1652
8683	65	53		B	IMVUP	Z	4	1985	B   52		1652
8684	65	54		BCE	FIXIT, 0 & X3, :	Z	8	1989	B Z64 0 ? 0 :		1652
8685	65	55		B	NUFRM	Z	4	1997	B Y90		1652
8686	65	56		BL	LOOP-7	Z	5	2001	B ! 10 T		1652
8687	65	57		B	LIST	Z	4	2006	B T34		1652
8688	65	58		SBR	SAVE1 & 6, 0 & X2	Z	7	2010	H M19 0 ! 0		1653
8689	65	59	LOOP	C	X3, PARAMA & 2	Z	7	2017	C 099 688		1653
8690	65	60		BE	LOPP	Z	5	2024	B ! 44 S		1653
8691	65	61		SBR	X1, 3 & X3	Z	7	2029	H 089 0 ? 3		1653

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8692	65	62		BCE	MVAGN-7,0&X1,}	12-7-8	Z	8	2036	B !57 0 0 }	GMARK 1653
8693	65	63	LOPP	B	NUFRM		Z	4	2044	B Y90	1653
8694	65	64		BL	ERRMS		Z	5	2048	B  92 T	1654
8695	65	65		B	SAVE1		Z	4	2053	B M13	1654
8696	65	66		SBR	X3,4&X3		Z	7	2057	H 099 0?4	1654
8697	65	67	MVAGN	B	IMVUP		Z	4	2064	B  52	1654
8698	65	68		C	0&X3,@:@	SEARCH FOR USED STMT 5-8	Z	7	2068	C 0?0 M57	1654
8699	65	69		BU	LOOP		Z	5	2075	B !17 /	1654
8700	65	70		SBR	HOLD2&6,0&X3		Z	7	2080	H J46 0?0	1654
8701	65	71		SBR	STORE,2&X3		Z	7	2087	H 853 0?2	1655
8702	65	72		SBR	X3,3&X3	TOX ADRES IN X3	Z	7	2094	H 099 0?3	1655
8703	65	73	MVDWN	LCA	0&X1,0&X3	OVERLAY USED STMTS	Z	7	2101	L 0 0 0?0	1655
8704	65	74		SAR	X1		Z	4	2108	Q 089	1655
8705	65	75		C	0&X3		Z	4	2112	C 0?0	1655
8706	65	76		SAR	X3		Z	4	2116	Q 099	1655
8707	65	77		BCE	*&5,0&X1,}	12-7-8	Z	8	2120	B J32 0 0 }	GMARK 1656
8708	65	78		B	MVDWN		Z	4	2128	B J01	1656
8709	65	79		MN	0&X1		Z	4	2132	D 0 0	1656
8710	65	80		SAR	ASIDE		Z	4	2136	Q 844	1656
8711	65	81	HOLD2	SBR	X1,0		Z	7	2140	H 089 000	1656
8712	65	82		BWZ	*&5,1&X1,S	A ZONE IN TENS POS OF INST	Z	8	2147	V J59 0 1 S	1656
8713	65	83		B	*&8		Z	4	2155	B J66	1656
8714	65	84		MLC	@1@,TEST3		Z	7	2159	M M48 M44	1657
8715	65	85		BWZ	*&5,0&X1,2	TST FOR ZN IN INTNO ST JUST MOVED	Z	8	2166	V J78 0 0 2	1657
8716	65	86		B	*&9		Z	4	2174	B J86	1657
8717	65	87		BWZ	UPDAT,2&X1,2	TST FOR ZN IN UNITS POS	Z	8	2178	V K04 0 2 2	1657
8718	65	88		MLC	2&X1,X1	ADRES OF INT NO	Z	7	2186	M 0 2 089	1657
8719	65	89		MLC	0&X1,X2	INT NO IN X2	Z	7	2193	M 0 0 094	1658
8720	65	90		B	*&8		Z	4	2200	B K11	1658
8721	65	91	UPDAT	MLC	2&X1,X2	INIT NO IN X2	Z	7	2204	M 0 2 094	1658
8722	65	92		SBR	INTNO,0&X2	MULT INT NO BY 3	Z	7	2211	H 865 0!0	1658
8723	65	93		SBR	MULT&6		Z	4	2218	H K35	1658
8724	65	94		MZ	@R@,MULT&5		Z	7	2222	Y M67 K34	1658
8725	65	95	MULT	SBR	X2,0		Z	7	2229	H 094 000	1659
8726	65	96		MLC	INTNO,*&14		Z	7	2236	M 865 K56	1659
8727	65	97		MZ	@R@,*&6		Z	7	2243	Y M67 K55	1659
8728	65	98		SBR	X2,0	ENTRY POS ON TBL1	Z	7	2250	H 094 000	1659
8729	65	99		BWZ	ACHCK,TABEL-1&X2,S		Z	8	2257	V K76 MR8 S	1659
8730	66	00		SBR	TABEL&X2,1&X3	NEW HI ORD POS IN TBL1	Z	7	2265	H MR9 0?1	1660
8731	66	01		B	NUPOS&14		Z	4	2272	B L16	1660
8732	66	02	ACHCK	MLC	TABEL&X2,X1		Z	7	2276	M MR9 089	1660
8733	66	03		BCE	NUPOS,TEST3,1		Z	8	2283	B L02 M44 1	1660
8734	66	04		SBR	3&X1,1&X3	NEW HI ORD POS IN TBL2, ENTRY2	Z	7	2291	H 0 3 0?1	1660
8735	66	05		B	NUPOS&14		Z	4	2298	B L16	1660
8736	66	06	NUPOS	SBR	0&X1,1&X3	NEW HI ORD POS IN TBL2, ENTRY1	Z	7	2302	H 0 0 0?1	1661
8737	66	07		MLC	@0@,TEST3		Z	7	2309	M M49 M44	1661
8738	66	08		C	ASIDE,FROMX	WAS WHOLE TOP MOVED DOWN	Z	7	2316	C 844 856	1661
8739	66	09		BE	RTNLD		Z	5	2323	B L56 S	1661
8740	66	10		MLC	ASIDE,X1		Z	7	2328	M 844 089	1661
8741	66	11		MN	0&X3		Z	4	2335	D 0?0	1661

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8742	66	12		MN		Z	1	2339	D		1661
8743	66	13		MN		Z	1	2340	D		1662
8744	66	14		SAR	HOLD2&6	Z	4	2341	Q J46		1662
8745	66	15		SBR	X1,1&X1	Z	7	2345	H 089 0 1		1662
8746	66	16		B	MVDWN	Z	4	2352	B J01		1662
8747	66	17	RTNLD	LCA	GMWM,0&X3	Z	7	2356	L M68 0?0		1662
8748	66	18		SBR	FROMX	Z	4	2363	H 856		1662
8749	66	19		C	ADRES,STORE	Z	7	2367	C 148 853		1662
8750	66	20		BE	FINIS	Z	5	2374	B M04 S		1663
8751	66	21		MLC	STORE,X3	Z	7	2379	M 853 099		1663
8752	66	22		SBR	X1,1&X3	Z	7	2386	H 089 0?1		1663
8753	66	23		SBR	X3,2&X3	Z	7	2393	H 099 0?2		1663
8754	66	24		B	MVAGN	Z	4	2400	B !64		1663
8755	66	25	FINIS	B	NUFRM	Z	4	2404	B Y90		1663
8756	66	26		BL	ERRMS	Z	5	2408	B  92 T		1663
8757	66	27	SAVE1	SBR	X2,0	Z	7	2413	H 094 000		1664
8758	66	28		MLC	ADDIN,X3	Z	7	2420	M 862 099		1664
8759	66	29		MLC	0&X3,PREP1	Z	7	2427	M 0?0 M47		1664
8760	66	30		B	LIST	Z	4	2434	B T34		1664
8761	66	31	AREA2	DCW	00000	Z	5	2442			1664
8762	66	32	TEST2	DCW	0	Z	1	2443			1664
8763	66	33	TEST3	DCW	0	Z	1	2444			1664
8764	66	34		LTORG	*	Z			2445		
			PREP1Z	DCW	#03	Z	3	2447		AREA	1665
				DCW	@1@	Z	1	2448		LIT	1665
				DCW	@0@	Z	1	2449		LIT	1665
			HEX1 Z	DCW	#03	Z	3	2452		AREA	1665
				DCW	@004@	Z	3	2455		LIT	1665
				DCW	@B@	Z	1	2456		LIT	1665
				DCW	@:@	Z	1	2457		LIT	1665
				DCW	@N@	Z	1	2458		LIT	1666
				DCW	@RESORT 4@	Z	8	2466		LIT	1666
				DCW	@R@	Z	1	2467		LIT	1666
8765	66	35	GMWM	DC	@}@	Z	1	2468		GMARK	1666
8766	66	36	SYSGM	DCW	@}@	Z	1	2469		GMARK	1666
8767	66	37		ORG	*&X00	Z			2500		
8768	66	38	END	EQU	*	Z		2499			
8769	66	39	TABEL	EQU	END	Z		2499			
8770	66	40		XFR	BEGIN	Z			B /75		1667

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8771	66	41		JOB	1401 FORTRAN RESORT PHASE FOUR	Z					
8772	66	42		ORG	BEGIN	Z			1175		
8773	66	43	110	DC	4	Z	1	0110			1670
8774	66	44		MLC	BSAUCE,X1	Z	7	1175	M 148 089		1671
8775	66	45		SBR	X1,1&X1	Z	7	1182	H 089 0 1		1671
8776	66	46		C	ADTBLL,X1	Z	7	1189	C 145 089		1671
8777	66	47		BE	ENDPH	Z	5	1196	B S60 S		1671
8778	66	48	CONST	SBR	X1,3&X1	Z	7	1201	H 089 0 3		1671
8779	66	49		MLC	0&X1,X2	Z	7	1208	M 0 0 094		1672
8780	66	50		BWZ	BYP4,X2-1,2	Z	8	1215	V S34 093 2		1672
8781	66	51		MCW	0&X2,0&X1	Z	7	1223	M 0 0 0 0		1672
8782	66	52		B	CMP4	Z	4	1230	B S48		1672
8783	66	53	BYP4	MA	DIFF,X2	Z	7	1234	# 859 094		1672
8784	66	54		MCW	X2,0&X1	Z	7	1241	M 094 0 0		1673
8785	66	55	CMP4	C	X1,ADTBLL	Z	7	1248	C 089 145		1673
8786	66	56		BU	CONST	Z	5	1255	B S01 /		1673
8787	66	57	ENDPH	MCW	DIFF,X1	Z	7	1260	M 859 089		1673
8788	66	58		MA	X3,X1	Z	7	1267	# 099 089		1673
8789	66	59		MCW	X1,RTR&6	Z	7	1274	M 089 U69		1674
8790	66	60		SBR	CNVRT,0&X3	Z	7	1281	H 896 0?0		1674
8791	66	61		B	EXPND	Z	4	1288	B 969		1674
8792	66	62		MLC	HOLD,WKBK1	Z	7	1292	M 891 870		1674
8793	66	63		MCW	HOLD,WKBK3#5	Z	7	1299	M 891 W68		1674
8794	66	64		MLC	DIFF,CNVRT	Z	7	1306	M 859 896		1674
8795	66	65		B	EXPND	Z	4	1313	B 969		1675
8796	66	66		A	HOLD,WKBK1	Z	7	1317	A 891 870		1675
8797	66	67		C	SIXTN,WKBK1	Z	7	1324	C W63 870		1675
8798	66	68		BL	*&8	Z	5	1331	B T43 T		1675
8799	66	69		S	SIXTN,WKBK1	Z	7	1336	S W63 870		1675
8800	66	70		MLC	BSAUCE,CNVRT	Z	7	1343	M 148 896		1675
8801	66	71		B	EXPND	Z	4	1350	B 969		1676
8802	66	72		C	HOLD,WKBK1	Z	7	1354	C 891 870		1676
8803	66	73		BH	ERRMS	Z	5	1361	B  92 U		1676
8804	66	74		MZ	X1,TESTA&7	Z	7	1366	Y 089 V77		1676
8805	66	75		MCW	X1-2,TESTB&7	Z	7	1373	M 087 V97		1676
8806	66	76		MLC	INTST,X2	Z	7	1380	M 183 094		1676
8807	66	77		MA	DIFF,INTST	Z	7	1387	# 859 183		1677
8808	66	78		C	WKBK1,WKBK3	Z	7	1394	C 870 W68		1677
8809	66	79		BH	WMTST	Z	5	1401	B V14 U		1677
8810	66	80	MVD	LCA	0&X3,0&X1	Z	7	1406	L 0?0 0 0		1677
8811	66	81		SAR	X3	Z	4	1413	Q 099		1677
8812	66	82		C	0&X1	Z	4	1417	C 0 0		1677
8813	66	83		SAR	X1	Z	4	1421	Q 089		1677
8814	66	84		BCE	*&5,0&X3,: 5-8	Z	8	1425	B U37 0?0 :		1678
8815	66	85		B	MVD	Z	4	1433	B U06		1678
8816	66	86	DUN	CS	0&X1	Z	4	1437	/ 0 0		1678
8817	66	87		SBR	X1	Z	4	1441	H 089		1678
8818	66	88		C	X1,@W99@	Z	7	1445	C 089 W71		1678
8819	66	89		BU	DUN	Z	5	1452	B U37 /		1678
8820	66	90		CW	0&X1	Z	4	1457	) 0 0		1678



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8821	66	91		CW		Z	1	1461	)		1679
8822	66	92		CW		Z	1	1462	)		1679
8823	66	93	RTR	SBR	X3,0	Z	7	1463	H 099 000		1679
8824	66	94		SW	0&X1,1&X3	Z	7	1470	, 0 0 0?1		1679
8825	66	95		MLC	DIFF,X2	Z	7	1477	M 859 094		1679
8826	66	96		FENDX	D,,,,,GM50A,SHIFT CFL	Z				MACRO	
8827				BSS	333,D	Z	5	1484	B 333 D	GEN	1679
8828				SBR	TCLEAR,GM50A	Z	7	1489	H 710 W88	GEN	1679
8829				LCA	@SHIFT CFL@,110	Z	7	1496	L W80 110	GEN	1680
8830				B	MONTER	Z	4	1503	B 700	GEN	1680
8831	66	97	ADD1	A	&1,X2	Z	7	1507	A W81 094		1680
8832	66	98	WMTST	BW	LDWRD,1&X2	Z	8	1514	V V26 0!1 1		1680
8833	66	99		B	ADD1	Z	4	1522	B V07		1680
8834	67	00	LDWRD	MLC	X2,X1	Z	7	1526	M 094 089		1680
8835	67	01		MA	DIFF,X1	Z	7	1533	# 859 089		1681
8836	67	02		LCA	0&X2,0&X1	Z	7	1540	L 0!0 0 0		1681
8837	67	03		C	X2,X3	Z	7	1547	C 094 099		1681
8838	67	04		BU	ADD1	Z	5	1554	B V07 /		1681
8839	67	05		LCA	@ @,2&X3	Z	7	1559	L W83 0?2		1681
8840	67	06		CW	1&X3	Z	4	1566	) 0?1		1681
8841	67	07	TESTA	BWZ	TESTB,X3,2	Z	8	1570	V V90 099 2		1682
8842	67	08		CS	0&X3	Z	4	1578	/ 0?0		1682
8843	67	09		SBR	X3	Z	4	1582	H 099		1682
8844	67	10		B	TESTA	Z	4	1586	B V70		1682
8845	67	11	TESTB	BCE	TESTC,X3-2,0	Z	8	1590	B W10 097 0		1682
8846	67	12		CS	0&X3	Z	4	1598	/ 0?0		1682
8847	67	13		SBR	X3	Z	4	1602	H 099		1682
8848	67	14		B	TESTB	Z	4	1606	B V90		1683
8849	67	15	TESTC	C	X3,X1	Z	7	1610	C 099 089		1683
8850	67	16		BE	FIN1S	Z	5	1617	B W41 S		1683
8851	67	17		LCA	@ @,0&X3	Z	7	1622	L W84 0?0		1683
8852	67	18		CW	0&X3	Z	4	1629	) 0?0		1683
8853	67	19		SBR	X3	Z	4	1633	H 099		1683
8854	67	20		B	TESTC	Z	4	1637	B W10		1683
8855	67	21	FIN1S	MCW	INTST,X1	Z	7	1641	M 183 089		1684
8856	67	22		MA	@I9I@,X1	Z	7	1648	# W87 089		1684
8857	67	23		B	DUN	Z	4	1655	B U37		1684
8858	67	24	SIXTN	DCW	@16000@	Z	5	1663			1684
8859	67	25		LTORG	*	Z			1664		
			WKBK3Z	DCW	#05	Z	5	1668		AREA	1684
				DCW	@W99@	Z	3	1671		LIT	1684
				DCW	@SHIFT CFL@	Z	9	1680		LIT	1685
				DCW	&1	Z	1	1681		LIT	1685
				DCW	@ @	Z	2	1683		LIT	1685
				DCW	@ @	Z	1	1684		LIT	1685
				DCW	@I9I@	Z	3	1687		LIT	1685
8860	67	26	GM50A	DCW	@}@	Z	1	1688		GMARK	1685
8861	67	27		XFR	BEGIN	Z			B /75		1686

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8862	67	28		JOB	SHIFT CONSTANTS, FORMATS, AND LISTS	Z					
8863	67	29	110	DCW	@SHIFT CFL@	Z	9	0110			1689
8864	67	30	NXBTM	EQU	83	Z		0083			
8865	67	31		ORG	BEGINZ	Z			1175		
8866	67	32		C	PARAM&2, CONLST	Z	7	1175	C 688 194		1690
8867	67	33		BE	EXIT	Z	5	1182	B V49 S		1690
8868	67	34		MCW	BSAUCE, X1	Z	7	1187	M 148 089		1690
8869	67	35		MCW	BSAUCE, X2	Z	7	1194	M 148 094		1690
8870	67	36		MA	MACFLS, X2	Z	7	1201	# 163 094		1690
8871	67	37		SBR	RSX3&6, 0&X3	Z	7	1208	H U89 0?0		1691
8872	67	38		CW	CNVRT-2	Z	4	1215	) 894		1691
8873	67	39		MCW	X2, CNVRT	Z	7	1219	M 094 896		1691
8874	67	40		B	EXPND	Z	4	1226	B 969		1691
8875	67	41		MCW	HOLD, X25#5	Z	7	1230	M 891 V94		1691
8876	67	42		MCW	X3, CNVRT	Z	7	1237	M 099 896		1691
8877	67	43		B	EXPND	Z	4	1244	B 969		1692
8878	67	44		MCW	HOLD, X35#5	Z	7	1248	M 891 V99		1692
8879	67	45		C	X25, X35	Z	7	1255	C V94 V99		1692
8880	67	46		BH	ERRMS	Z	5	1262	B  92 U		1692
8881	67	47		MCW	BSAUCE, CNVRT	Z	7	1267	M 148 896		1692
8882	67	48		B	EXPND	Z	4	1274	B 969		1692
8883	67	49		MCW	HOLD, NXBTM5#5	Z	7	1278	M 891 W04		1693
8884	67	50		MCW	CONLST, CNVRT	Z	7	1285	M 194 896		1693
8885	67	51		B	EXPND	Z	4	1292	B 969		1693
8886	67	52		MCW	HOLD, CNLST5#5	Z	7	1296	M 891 W09		1693
8887	67	53		C	NXBTM5, CNLST5	Z	7	1303	C W04 W09		1693
8888	67	54		BL	WRDMV	Z	5	1310	B T93 T		1693
8889	67	55	MAD	MA	@001@, X1	Z	7	1315	# W12 089		1694
8890	67	56		MA	@001@, X2	Z	7	1322	# W12 094		1694
8891	67	57		BW	LDWM, 0&X1	Z	8	1329	V T82 0 0 1		1694
8892	67	58		CW	0&X2	Z	4	1337	) 0!0		1694
8893	67	59		MN	0&X1, 0&X2	Z	7	1341	D 0 0 0!0		1694
8894	67	60		MZ	0&X1, 0&X2	Z	7	1348	Y 0 0 0!0		1695
8895	67	61	CWX1	CW	0&X1	Z	4	1355	) 0 0		1695
8896	67	62		C	X1, CONLST	Z	7	1359	C 089 194		1695
8897	67	63		BU	MAD	Z	5	1366	B T15 /		1695
8898	67	64		MLC	CONLST, X3	Z	7	1371	M 194 099		1695
8899	67	65		B	TSTM	Z	4	1378	B U00		1695
8900	67	66	LDWM	LCA	0&X1, 0&X2	Z	7	1382	L 0 0 0!0		1696
8901	67	67		B	CWX1	Z	4	1389	B T55		1696
8902	67	68	WRDMV	MLC	BSAUCE, X3	Z	7	1393	M 148 099		1696
8903	67	69	TSTM	BW	MANXB, 1&X3	Z	8	1400	V U16 0?1 1		1696
8904	67	70		CW	WMSW#1	Z	4	1408	) W13		1696
8905	67	71		SW	1&X3	Z	4	1412	, 0?1		1696
8906	67	72	MANXB	MCW	PARAM&2, X1	Z	7	1416	M 688 089		1697
8907	67	73		MCW	CONLST, X2	Z	7	1423	M 194 094		1697
8908	67	74	LOAD	LCA	0&X1, 0&X2	Z	7	1430	L 0 0 0!0		1697
8909	67	75		SBR	X2	Z	4	1437	H 094		1697
8910	67	76		SBR	X1	Z	4	1441	H 089		1697
8911	67	77		MA	PLUSDF, X1	Z	7	1445	# 160 089		1697

TEST FOR WORD MARKIN TEST ADR&amp;1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8912	67	78		C	X1,X3	Z	7	1452	C 089 099		1698
8913	67	79		BU	LOAD	Z	5	1459	B U30 /		1698
8914	67	80		BW	RSX3,WMSW	Z	8	1464	V U83 W13 1		1698
8915	67	81		MA	MACFLS,X3	Z	7	1472	# 163 099		1698
8916	67	82		CW	1&X3	Z	4	1479	) 0?1		1698
8917	67	83	RSX3	SBR	X3,0	Z	7	1483	H 099 000		1698
8918	67	84		MA	MACFLS,NXBTM	Z	7	1490	# 163 083		1699
8919	67	85		MA	MACFLS,ADTBLL	Z	7	1497	# 163 145		1699
8920	67	86		MA	MACFLS,BSAUCE	Z	7	1504	# 163 148		1699
8921	67	87		MCW	PARAM&2,X1	Z	7	1511	M 688 089		1699
8922	67	88	CX1CN	C	X1,CONLST	Z	7	1518	C 089 194		1699
8923	67	89		BE	EXIT	Z	5	1525	B V49 S		1700
8924	67	90		MCW	@ @,0&X1	Z	7	1530	M W14 0 0		1700
8925	67	91		CW	0&X1	Z	4	1537	) 0 0		1700
8926	67	92		SBR	X1	Z	4	1541	H 089		1700
8927	67	93		B	CX1CN	Z	4	1545	B V18		1700
8928	67	94	EXIT	FENDX	C,, ,XBEGIN,XBEGIN,,GM50C,REPLACE 1	Z				MACRO	
8929			EXIT	BSS	333,C	Z	5	1549	B 333 C	GEN	1700
8930				SBR	INITAP&6,XBEGIN	Z	7	1554	H 786 838	GEN	1700
8931				SBR	BCLEAR	Z	4	1561	H 833	GEN	1701
8932				SBR	INITXT&3,XBEGIN	Z	7	1565	H 796 838	GEN	1701
8933				SBR	TCLEAR,GM50C	Z	7	1572	H 710 W24	GEN	1701
8934				LCA	@REPLACE 1@,110	Z	7	1579	L W23 110	GEN	1701
8935				B	MONTER	Z	4	1586	B 700	GEN	1701
8936	67	95		LTORG	*	Z			1590		
			X25	Z	DCW #05	Z	5	1594		AREA	1701
			X35	Z	DCW #05	Z	5	1599		AREA	1701
			NXBTM5	DCW	#05	Z	5	1604		AREA	1702
			CNLST5	DCW	#05	Z	5	1609		AREA	1702
				DCW	@001@	Z	3	1612		LIT	1702
			WMSW	Z	DCW #01	Z	1	1613		AREA	1702
				DCW	@ @	Z	1	1614		LIT	1702
				DCW	@REPLACE 1@	Z	9	1623		LIT	1702
8937	67	96	GM50C	DCW	@}@	Z	1	1624		GMARK	1702
8938	67	97		XFR	BEGIN	Z			B /75		1703

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8939	67	98		JOB	1401 FORTRAN REPLACE PHASE ONE	Z					
8940	67	99		FBEGN	REPLACE 1,X1,R,X2,,X3,,V	Z				MACRO	
8941				SFX	V	V				GEN	
8942			110	DCW	@REPLACE 1@	V	9	0110		GEN	1706
8943			X1	EQU	089	V		0089		GEN	
8944			089	DCW	000	V	3	0089		GEN	1707
8945			091	DC	00	V	2	0091		GEN	1707
8946			X2	EQU	094	V		0094		GEN	
8947			X3	EQU	099	V		0099		GEN	
8948	68	00		ORG	XBEGIN	V			0838		
8949	68	01	INIT	MCW	X3,GARY#3	V	7	0838	M 099 S49		1708
8950	68	02		MCW	BSAUCE,*&7	V	7	0845	M 148 858		1708
8951	68	03		MCW	@>@,0	V	7	0852	M S50 000		1708
8952	68	04		MCW	PERIOD,X2	V	7	0859	M 154 094		1708
8953	68	05		MCW	@>@,1600	V	7	0866	M S50 W00		1708
8954	68	06	SCNDL	BCE	DOLR,0&X2,\$	V	8	0873	B 915 0!0 \$		1709
8955	68	07		CHAIN	9	V				MACRO	
8956				BCE		V	1	0881	B	GEN	1709
8957				BCE		V	1	0882	B	GEN	1709
8958				BCE		V	1	0883	B	GEN	1709
8959				BCE		V	1	0884	B	GEN	1709
8960				BCE		V	1	0885	B	GEN	1709
8961				BCE		V	1	0886	B	GEN	1709
8962				BCE		V	1	0887	B	GEN	1710
8963				BCE		V	1	0888	B	GEN	1710
8964				BCE		V	1	0889	B	GEN	1710
8965	68	08	RU68	BCE	SKGBG,0&X2,>	V	8	0890	B  15 0!0 >		1710
8966	66	09		CHAIN	9	V				MACRO	
8967				BCE		V	1	0898	B	GEN	1710
8968				BCE		V	1	0899	B	GEN	1710
8969				BCE		V	1	0900	B	GEN	1710
8970				BCE		V	1	0901	B	GEN	1711
8971				BCE		V	1	0902	B	GEN	1711
8972				BCE		V	1	0903	B	GEN	1711
8973				BCE		V	1	0904	B	GEN	1711
8974				BCE		V	1	0905	B	GEN	1711
8975				BCE		V	1	0906	B	GEN	1711
8976	66	10		SBR	X2	V	4	0907	H 094		1711
8977	68	11		B	SCNDL	V	4	0911	B 873		1712
8978	68	12	DOLR	BCE	FND,0&X2,\$	V	8	0915	B 931 0!0 \$		1712
8979	68	13		SBR	X2	V	4	0923	H 094		1712
8980	68	14		B	DOLR	V	4	0927	B 915		1712
8981	68	15	FND	MN	0&X2	V	4	0931	D 0!0		1712
8982	68	16		SAR	X2	V	4	0935	Q 094		1712
8983	68	17		BCE	SETSW,0&X2,\$	V	8	0939	B 966 0!0 \$		1712
8984	68	18		CHAIN	15	V				MACRO	
8985				BCE		V	1	0947	B	GEN	1713
8986				BCE		V	1	0948	B	GEN	1713
8987				BCE		V	1	0949	B	GEN	1713
8988				BCE		V	1	0950	B	GEN	1713

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
8989				BCE		V	1	0951	B	GEN	1713
8990				BCE		V	1	0952	B	GEN	1713
8991				BCE		V	1	0953	B	GEN	1713
8992				BCE		V	1	0954	B	GEN	1714
8993				BCE		V	1	0955	B	GEN	1714
8994				BCE		V	1	0956	B	GEN	1714
8995				BCE		V	1	0957	B	GEN	1714
8996				BCE		V	1	0958	B	GEN	1714
8997				BCE		V	1	0959	B	GEN	1714
8998				BCE		V	1	0960	B	GEN	1714
8999				BCE		V	1	0961	B	GEN	1715
9000	68	19		B	SCNDL	V	4	0962	B 873		1715
9001	68	20	SETSW	CW	XDOSBS	V	4	0966	) 116		1715
9002	68	21	DLOOP	MN	0&X2	V	4	0970	D 0!0		1715
9003	68	22		CHAIN	2	V				MACRO	
9004				MN		V	1	0974	D	GEN	1715
9005				MN		V	1	0975	D	GEN	1715
9006	68	23		SAR	X2	V	4	0976	Q 094		1715
9007	68	24		SW	1&X2	V	4	0980	, 0!1		1716
9008	68	25		BCE	NDOLR, 0&X2, \$	V	8	0984	B  03 0!0 \$		1716
9009	68	26		MZ	*-4, 2&X2	V	7	0992	Y 994 0!2		1716
9010	68	27		B	DLOOP	V	4	0999	B 970		1716
9011	68	28	NDOLR	MN	0&X2	V	4	1003	D 0!0		1716
9012	68	29		SAR	X2	V	4	1007	Q 094		1716
9013	68	30		B	SCNDL	V	4	1011	B 873		1716
9014	68	31	SKGBG	MCW	&TEST5, RU68&3	V	7	1015	M S53 893		1717
9015	68	32		MCW	X3, X2	V	7	1022	M 099 094		1717
9016	68	33		B	SCNDL	V	4	1029	B 873		1717
9017	68	34	TEST5	BCE	EXIT, 0&X3, BLANK	V	8	1033	B S10 0?0		1717
9018	68	35		MCW	X3, SBR&6	V	7	1041	M 099 /37		1717
9019	68	36		C	0&X3 MOVE POINTER	V	4	1048	C 0?0		1717
9020	68	37		SBR	X2	V	4	1052	H 094		1718
9021	68	38		SBR	X3	V	4	1056	H 099		1718
9022	68	39		BCE	PSKIP, 1&X3,	V	8	1060	B /74 0?1		1718
9023	68	40	TEST2	BWZ	TEST5, 4&X2, 1	V	8	1068	V  33 0!4 1		1718
9024	68	41		BWZ		V	1	1076	V		1718
9025	68	42		BWZ		V	1	1077	V		1718
9026	68	43		BM	REPLC, 3&X2	V	8	1078	V /42 0!3 K		1718
9027	68	44		C	4&X2, @2G7@	V	7	1086	C 0!4 S56		1719
9028	68	45		BE	TEST5	V	5	1093	B  33 S		1719
9029	68	46		BWZ	ADDU, 3&X2, B	V	8	1098	V /17 0!3 B		1719
9030	68	47	RIGHT	SBR	X2, 3&X2	V	7	1106	H 094 0!3		1719
9031	68	48		B	TEST2	V	4	1113	B  68		1719
9032	68	49	ADDU	MCW	4&X2, X1	V	7	1117	M 0!4 089		1719
9033	68	50		MZ	*-6, SBR&5	V	7	1124	Y /24 /36		1720
9034	68	51	SBR	SBR	4&X2, 0	V	7	1131	H 0!4 000		1720
9035	68	52		B	RIGHT	V	4	1138	B /06		1720
9036	68	53	REPLC	MCW	4&X2, X1	V	7	1142	M 0!4 089		1720
9037	68	54		MA	MACFLS, X1	V	7	1149	# 163 089		1720
9038	68	55		MCW	0&X1, X1	V	7	1156	M 0!0 089		1720

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9039	68	56		MCW	X1,4&X2	V	7	1163	M 089 0!4		1721
9040	68	57		B	RIGHT	V	4	1170	B /06		1721
9041	68	58	PSKIP	BW	SKIP,2&X3	V	8	1174	V /86 0?2 1		1721
9042	68	59		B	TEST5	V	4	1182	B  33		1721
9043	68	60	SKIP	C	0&X3	V	4	1186	C 0?0		1721
9044	68	61		SBR	X3	V	4	1190	H 099		1721
9045	68	62		C	4&X3,@B700@	V	7	1194	C 0?4 S60		1721
9046	68	63		BE	TEST5	V	5	1201	B  33 S		1722
9047	68	64		B	SKIP	V	4	1206	B /86		1722
9048	68	65	EXIT	MCW	GARY,X3	V	7	1210	M S49 099		1722
9049	68	66		FENDX	C,,,STARTR,,SYS1,LOAD 52B&C	V				MACRO	
9050				BSS	333,C	V	5	1217	B 333 C	GEN	1722
9051				SBR	INITXT&3,STARTR	V	7	1222	H 796 934	GEN	1722
9052				SBR	TCLEAR,SYS1	V	7	1229	H 710 S71	GEN	1722
9053				LCA	@LOAD 52B&C@,110	V	7	1236	L S70 110	GEN	1723
9054				B	MONTER	V	4	1243	B 700	GEN	1723
9055	68	67		LTORG	*	V			1247		
			GARY V	DCW	#03	V	3	1249		AREA	1723
				DCW	@>@	V	1	1250		LIT	1723
				DCW	&TEST5V	V	3	1253	33	ADCON	1723
				DCW	@2G7@	V	3	1256		LIT	1723
				DCW	@B700@	V	4	1260		LIT	1723
				DCW	@LOAD 52B&C@	V	10	1270		LIT	1724
9056	68	68	SYS1	DCW	@}@	V	1	1271		GMARK	1724
9057	68	69		XFR	INIT	V			B 838		1725

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9058	68	70		JOB	LOAD PHASE 52-SECTIONS B & C	V					
9059	68	71		SFX	R	R					
9060	68	72	110	DCW	@LOAD 52B&C@	R	10	0110			1728
9061	68	73		ORG	XBEGIN	R			0838		
9062	68	74	XLINKS	DCW	#3	R	3	0840			1729
9063	68	75	YUSR12	DCW	#3	R	3	0843			1729
9064	68	76	YUSR11	DCW	#3	R	3	0846			1729
9065	68	77	YUSR10	DCW	#3	R	3	0849			1729
9066	68	78	YUSER9	DCW	#3	R	3	0852			1729
9067	68	79	YUSER8	DCW	#3	R	3	0855			1729
9068	68	80	YUSER7	DCW	#3	R	3	0858			1729
9069	68	81	YUSER6	DCW	#3	R	3	0861			1730
9070	68	82	YUSER5	DCW	#3	R	3	0864			1730
9071	68	83	YUSER4	DCW	#3	R	3	0867			1730
9072	68	84	YUSER3	DCW	#3	R	3	0870			1730
9073	68	85	YUSER2	DCW	#3	R	3	0873			1730
9074	68	86	YUSER1	DCW	#3	R	3	0876			1730
9075	68	87	SQRTFN	DCW	#3	R	3	0879			1730
9076	68	88	FLTFUN	DCW	#3	R	3	0882			1731
9077	68	89	FIXFUN	DCW	#3	R	3	0885			1731
9078	68	90	NEGTFN	DCW	#3	R	3	0888			1731
9079	68	91	ABSVAL	DCW	#3	R	3	0891			1731
9080	68	92	ATANFN	DCW	#3	R	3	0894			1731
9081	68	93	XPNETL	DCW	#3	R	3	0897			1731
9082	68	94	LOGFUN	DCW	#3	R	3	0900			1731
9083	68	95	SINFUN	DCW	#3	R	3	0903			1732
9084	68	96	COMFN1	DCW	#3	R	3	0906			1732
9085	68	97	DOSBSC	DCW	#3	R	3	0909			1732
9086	68	98	OBLIST	DCW	@J32@ FMTXT CHANGE IF OBJ FORMAT REASSEMBLED	R	3	0912			1732
9087	68	99	DOINIT	DCW	#3	R	3	0915			1732
9088	69	00	DOADR3	DCW	#3	R	3	0918			1732
9089	69	01	DOADR2	DCW	#3	R	3	0921			1732
9090	69	02	DOADR1	DCW	#3	R	3	0924			1733
9091	69	03	TBLAD	DCW	DOADR1	R	3	0927	924		1733
9092	69	04	FIXWD	DCW	#3	R	3	0930			1733
9093	69	05	FLTWD	DCW	#3	R	3	0933			1733
9094	69	06	START	B	EXIT3	R	4	0934	B 983		1733
9095	69	07	LD52C	FENDX	,,,START,START1,,GMWM,FUNLOAD C	R				MACRO	
9096			LD52C	SBR	INITAP&6,START	R	7	0938	H 786 934	GEN	1733
9097				SBR	BCLEAR	R	4	0945	H 833	GEN	1733
9098				SBR	INITXT&3,START1	R	7	0949	H 796 337	GEN	1734
9099				SBR	TCLEAR,GMWM	R	7	0956	H 710 W96	GEN	1734
9100				LCA	@FUNLOAD C@,110	R	7	0963	L 982 110	GEN	1734
9101				B	MONTER	R	4	0970	B 700	GEN	1734
9102	69	08		LTORG	*	R			0974		
				DCW	@FUNLOAD C@	R	9	0982		LIT	1734
9103	69	09	EXIT3	SBR	INITAP&6,333	R	7	0983	H 786 333		1735
9104	69	10		SBR	BCLEAR,EXIT3	R	7	0990	H 833 983		1735
9105	69	11		FENDX	C,,,LD52C,,GMWM,FUNLOAD B	R				MACRO	
9106				BSS	333,C	R	5	0997	B 333 C	GEN	1735

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9107				SBR	INITXT&3,LD52C	R	7	1002	H 796 938	GEN	1735
9108				SBR	TCLEAR,GMWM	R	7	1009	H 710 W96	GEN	1735
9109				LCA	@FUNLOAD B@,110	R	7	1016	L   35 110	GEN	1736
9110				B	MONTER	R	4	1023	B 700	GEN	1736
9111	69	12		LTORG	*	R			1027		
				DCW	@FUNLOAD B@	R	9	1035		LIT	1736
9112	69	13		ORG	1696	R			1696		
9113	69	14	GMWM	DCW	@}@	R	1	1696		GMARK	1737
9114	69	15		XFR	START	R			B 934		1738

GROUP MARK



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9115	69	16		JOB	1401 FORTRAN FUNCTION/SUBROUTINE LOADER-B	R					
9116	69	17		FBEGN	FUNLOAD B,X1,R,X2,R,X3,,R	R				MACRO	
9117				SFX	R	R				GEN	
9118			110	DCW	@FUNLOAD B@	R	9	0110		GEN	1741
9119			X1	EQU	089	R		0089		GEN	
9120			089	DCW	000	R	3	0089		GEN	1742
9121			091	DC	00	R	2	0091		GEN	1742
9122			X2	EQU	094	R		0094		GEN	
9123			094	DCW	000	R	3	0094		GEN	1742
9124			096	DC	00	R	2	0096		GEN	1742
9125			X3	EQU	099	R		0099		GEN	
9126	69	18	NXBTM	EQU	83	R		0083			
9127	69	19		ORG	333	R			0333		
9128	69	20		H	333	R	4	0333	. 333		1743
9129	69	21	START1	CS	080	R	4	0337	/ 080		1743
9130	69	22		MCW	X3,HEX3	R	7	0341	M 099 W35		1743
9131	69	23		SBR	X3,1&X3	R	7	0348	H 099 0?1		1743
9132	69	24		SW	1,40	R	7	0355	, 001 040		1743
9133	69	25		SW	47,54	R	7	0362	, 047 054		1743
9134	69	26		SW	61,68	R	7	0369	, 061 068		1744
9135	69	27		SW	72	R	4	0376	, 072		1744
9136	69	28		MCW	MONITOR,READ	R	7	0380	M 769 /60		1744
9137	69	29		B	GET	R	4	0387	B /49		1744
9138	69	30		MCW	NXBTM,X2	R	7	0391	M 083 094		1744
9139	69	31		MN	0&X2	R	4	0398	D 0!0		1744
9140	69	32		MN		R	1	0402	D		1744
9141	69	33		SBR	KLOBR&6	R	4	0403	H  95		1745
9142	69	34		MCW	@_@	R	4	0407	M V65		1745
9143	69	35		NOP		R	1	0411	N		1745
9144	69	36	LOOP2	MCW	X3,NOP4&3	R	7	0412	M 099 436		1745
9145	69	37		MZ	@B@,NOP4&2	R	7	0419	Y V66 435		1745
9146	69	38		MCW	DSA,X3	R	7	0426	M V60 099		1745
9147	59	39	NOP4	NOP	0	R	4	0433	N 000		1745
9148	59	40		SAR	X3	R	4	0437	Q 099		1746
9149	59	41	GET2	B	GET	R	4	0441	B /49		1746
9150	59	42	AGET2	C	005,@____@	R	7	0445	C 005 V70		1746
9151	59	43		BU	MVAD	R	5	0452	B 468 /		1746
9152	69	44		MCW	X3,HXCMN#3	R	7	0457	M 099 V73		1746
9153	69	45		B	GET2	R	4	0464	B 441		1746
9154	69	46	MVAD	MCW	TBAD2,X1	R	7	0468	M V63 089		1746
9155	69	47	BMPT2	SBR	TBAD2,1&X1	R	7	0475	H V63 0 1		1747
9156	69	48	CX1	C	X1,&NDTABL	R	7	0482	C 089 V76		1747
9157	69	49		BE	OUT	R	5	0489	B T59 S		1747
9158	69	50		MCW	@H@,BMPT2	R	7	0494	M V77 475		1747
9159	69	51		C	TBLAD,&YUSER1	R	7	0501	C 927 V80		1747
9160	69	52	CKUSR	BE	STOTP	R	5	0508	B U23 S		1747
9161	69	53		MCW	TBLAD,X2	R	7	0513	M 927 094		1748
9162	69	54		C	0&X2	R	4	0520	C 0!0		1748
9163	69	55		SAR	TBLAD	R	4	0524	Q 927		1748
9164	69	56		BW	NODIC,0&X1	R	8	0528	V T35 0 0 1		1748

11-7-8

ALL 11-7-8

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9165	69	57	NOPSW	MCW	@N@,SW1	R	7	0536	M V81 583		1748
9166	69	58	CKZN	BWZ	PURE,42,2	R	8	0543	V /31 042 2		1748
9167	69	59		MN	46,LOAD&6	R	7	0551	D 046 578		1749
9168	69	60		CHAIN	5	R				MACRO	
9169				MN		R	1	0558	D	GEN	1749
9170				MN		R	1	0559	D	GEN	1749
9171				MN		R	1	0560	D	GEN	1749
9172				MN		R	1	0561	D	GEN	1749
9173				MN		R	1	0562	D	GEN	1749
9174	69	61		MZ	46,LOAD&6	R	7	0563	Y 046 578		1749
9175	69	62		MN		R	1	0570	D		1750
9176	69	63		MZ		R	1	0571	Y		1750
9177	69	64	LOAD	LCA	0,0&X3	R	7	0572	L 000 0?0		1750
9178	69	65		SBR	X2	R	4	0579	H 094		1750
9179	69	66	SW1	NOP	CTU1	R	4	0583	N 608		1750
9180	69	67		MCW	TBLAD,X1	R	7	0587	M 927 089		1750
9181	69	68		SBR	3&X1,1&X2	R	7	0594	H 0 3 0 1		1750
9182	69	69		MCW	@B@,SW1	R	7	0601	M V66 583		1751
9183	69	70	CTU1	MZ	45,HLDZN#1	R	7	0608	Y 045 V82		1751
9184	69	71		B	RELOC	R	4	0615	B S17		1751
9185	69	72		S	X1&1	R	4	0619	S 090		1751
9186	69	73	DOWM	C	50&X1,@040@	R	7	0623	C 0V0 V85		1751
9187	69	74		BE	READ2	R	5	0630	B  11 S		1751
9188	69	75		MCW	50&X1,SETWM&3	R	7	0635	M 0V0 667		1752
9189	69	76		MZ	@B@,SETWM&2	R	7	0642	Y V66 666		1752
9190	69	77		BCE	SETWM,SETWM,)	R	8	0649	B 664 664 )		1752
9191	69	78		MCW	@,@,SETWM	R	7	0657	M V86 664		1752
9192	69	79	SETWM	SW	0&X3	R	4	0664	, 0?0		1752
9193	69	80		SAR	X2	R	4	0668	Q 094		1752
9194	69	81		B	BRELC	R	4	0672	B 934		1753
9195	69	82		NOP	000	R	4	0676	N 000		1753
9196	69	83	GMK1	DCW	@}@	R	1	0680		GMARK	1753
9197	69	84		XFR	LD52CR	R			B 938		1754

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9198	69	85		JOB	1401 FORTRAN FUNCTION/SUBROUTINE LOADER-C	R					
9199	69	86	110	DCW	@FUNLOAD C@	R	9	0110			1757
9200	69	87		ORG	STARTR	R			0934		
9201	69	88	BRELC	MZ	49&X1,HLDZN	R	7	0934	Y 0U9 V82		1758
9202	59	89		BZ	RELOC	R	4	0941	B S17		1758
9203	69	90	ADDS	NOP	@4@,X1	R	7	0945	N V87 089		1758
9204	69	91	ADDS2	A	@3@,X1	R	7	0952	A V88 089		1758
9205	69	92		BCE	TYPE1,ADDS,A	R	8	0959	B 993 945 A		1758
9206	69	93		MCW	@A@,ADDS	R	7	0967	M V89 945		1759
9207	69	94		MCW	@N@,ADDS2	R	7	0974	M V81 952		1759
9208	69	95		BCE	ADDS,SETWM,)	R	8	0981	B 945 664 )		1759
9209	69	96		B	DOWM	R	4	0989	B 623		1759
9210	69	97	TYPE1	MCW	@N@,ADDS	R	7	0993	M V81 945		1759
9211	69	98		MCW	@A@,ADDS2	R	7	1000	M V89 952		1760
9212	69	99		B	DOWM	R	4	1007	B 623		1760
9213	70	00	READ2	MCW	46, LAST#3	R	7	1011	M 046 V92		1760
9214	70	01		MCW	@N@,ADDS	R	7	1018	M V81 945		1760
9215	70	02		MCW	@A@,ADDS2	R	7	1025	M V89 952		1760
9216	70	03		B	GET	R	4	1032	B /49		1760
9217	70	04	CKEX	BCE	END,68,B	R	8	1036	B  56 068 B		1761
9218	70	05		BCE	END,40,/	R	8	1044	B  56 040 /		1761
9219	70	06		B	CKZN	R	4	1052	B 543		1761
9220	70	07	END	MCW	LAST,NOP3&3	R	7	1056	M V92  73		1761
9221	70	08		MZ	@B@,NOP3&2	R	7	1063	Y V66  72		1761
9222	70	09	NOP3	NOP	0&X3	R	4	1070	N 0?0		1761
9223	70	10		SAR	X3	R	4	1074	Q 099		1762
9224	70	11		SBR	HEX3	R	4	1078	H W35		1762
9225	70	12		SBR	X3,1&X3	R	7	1082	H 099 0?1		1762
9226	70	13	KLOBR	BCE	LOOP2,0, _	R	8	1089	B 412 000 _		1762
9227	70	14		CS	332	R	4	1097	/ 332		1762
9228	70	15		CS		R	1	1101	/		1762
9229	70	16		CC	1	R	2	1102	F 1		1762
9230	70	17		MCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@,270	R	7	1104	M W28 270		1763
9231	70	18		W		R	1	1111	2		1763
9232	70	19		CC	1	R	2	1112	F 1		1763
9233	70	20		BCE	*&6,MONTOR,1	R	8	1114	B /27 769 1		1763
9234	70	21		RWD	1	R	5	1122	U %U1 R		1763
9235	70	22		H	*-3	R	4	1127	. /27		1763
9236	70	23	PURE	SBR	71,READ2	R	7	1131	H 071  11		1763
9237	70	24		MCW	@B@,68	R	7	1138	M V66 068		1764
9238	70	25		B	40	R	4	1145	B 040		1764
9239	70	26	GET	SBR	GETXT&3	R	4	1149	H /87		1764
9240	70	27		MCW	@ @,001	R	7	1153	M W29 001		1764
9241	70	28	READ	R	GETXT	R	4	1160	1 /84		1764
9242	70	29	MVNIN	MCW	&9,RDCNT#1	R	7	1164	M W30 W31		1764
9243	70	30	RDTAP	RT	1,1	R	8	1171	M %U1 001 R		1765
9244	70	31		BER	TPERR	R	5	1179	B /88 L		1765
9245	70	32	GETXT	B	0	R	4	1184	B 000		1765
9246	70	33	TPERR	BSP	1	R	5	1188	U %U1 B		1765
9247	70	34		S	&1,RDCNT	R	7	1193	S W32 W31		1765

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9248	70	35		BWZ	RDTAP,RDCNT,B	R	8	1200	V /71 W31 B		1765
9249	70	36		NOP	3333	R	4	1208	N C33		1766
9250	70	37		H		R	1	1212	.		1766
9251	70	38		B	MVNIN	R	4	1213	B /64		1766
9252	70	39	RELOC	SBR	RELXT&3	R	4	1217	H T34		1766
9253	70	40		BWZ	RELXT,HLDZN,2	R	8	1221	V T31 V82 2		1766
9254	70	41		BWZ	ISB,HLDZN,S	R	8	1229	V S88 V82 S		1766
9255	70	42		MCW	X3,HEX3#3	R	7	1237	M 099 W35		1766
9256	70	43		BWZ	SW2X2,4&X2,2	R	8	1244	V S66 014 2		1767
9257	70	44		MCW	HXCMN,X3	R	7	1252	M V73 099		1767
9258	70	45		MZ	*-4,4&X2	R	7	1259	Y S61 014		1767
9259	70	46	SW2X2	MA	X3,4&X2	R	7	1266	# 099 014		1767
9260	70	67		MCW	HEX3,X3	R	7	1273	M W35 099		1767
9261	70	48		BWZ	RELXT,HLDZN,K	R	8	1280	V T31 V82 K		1768
9262	70	49	ISB	MCW	X3,HEX3	R	7	1288	M 099 W35		1768
9263	70	50		BWZ	MCWX2,7&X2,2	R	8	1295	V T17 017 2		1768
9264	70	51		MCW	HXCMN,X3	R	7	1303	M V73 099		1768
9265	70	52		MZ	*-4,7&X2	R	7	1310	Y T12 017		1768
9266	70	53	MCWX2	MA	X3,7&X2	R	7	1317	# 099 017		1769
9267	70	54		MCW	HEX3,X3	R	7	1324	M W35 099		1769
9268	70	55	RELXT	B	0	R	4	1331	B 000		1769
9269	70	56	NODIC	B	GET	R	4	1335	B /49		1769
9270	70	57		BCE	GET2,40,/	R	8	1339	B 441 040 /		1769
9271	70	58		BCE	GET2,68,B	R	8	1347	B 441 068 B		1769
9272	70	59		B	NODIC	R	4	1355	B T35		1770
9273	70	60	OUT	NOP	OUT2	R	4	1359	N U41		1770
9274	70	61		MCW	@B@,OUT	R	7	1363	M V66 T59		1770
9275	70	62		SBR	TBAD2,XSINFU	R	7	1370	H V63 118		1770
9276	70	63		MCW	HEX3,X2	R	7	1377	M W35 094		1770
9277	70	64		SBR	GOTOFN,1&X2	R	7	1384	H 188 011		1770
9278	70	65		MCW	@N@,BMPT2	R	7	1391	M V81 475		1771
9279	70	66		MCW	@N@,NOPSW	R	7	1398	M V81 536		1771
9280	70	67		MCW	@B@,SW1	R	7	1405	M V66 583		1771
9281	70	68		MCW	HEX3,BTM#3	R	7	1412	M W35 W38		1771
9282	70	69		B	AGET2	R	4	1419	B 445		1771
9283	70	70	STOTP	MCW	HEX3,TOP#3	R	7	1423	M W35 W41		1771
9284	70	71		MCW	@N@,CKUSR	R	7	1430	M V81 508		1772
9285	70	72		B	CKUSR&5	R	4	1437	B 513		1772
9286	70	73	OUT2	MCW	HEX3,X3	R	7	1441	M W35 099		1772
9287	70	74		MCW	PARAM&2,X2	R	7	1448	M 688 094		1772
9288	70	75		C	0&X2	R	4	1455	C 010		1772
9289	70	76		SAR	X2	R	4	1459	Q 094		1772
9290	70	77		SBR	FLTWD	R	4	1463	H 933		1772
9291	70	78		C	0&X2	R	4	1467	C 010		1773
9292	70	79		SAR	FIXWD	R	4	1471	Q 930		1773
9293	70	80		BCE	MTPX1,XLINKS,	R	8	1475	B V08 840		1773
9294	70	81		MCW	XLINKS,X1	R	7	1483	M 840 089		1773
9295	70	82		MA	@013@,X1	R	7	1490	# W44 089		1773
9296	70	83		MLC	CONLST,0&X1	R	7	1497	M 194 010		1773
9297	70	84		CW	XLINKW	R	4	1504	) 185		1774

BLANK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9298	70	85	MTPX1	MCW	TOP,X1	R	7	1508	M W41 089		1774
9299	70	86		MCW	BTM,X2	R	7	1515	M W38 094		1774
9300	70	87		FENDX	,,,START,START,,1696,RELOAD SS	R				MACRO	
9301				SBR	INITAP&6,START	R	7	1522	H 786 934	GEN	1774
9302				SBR	BCLEAR	R	4	1529	H 833	GEN	1774
9303				SBR	INITXT&3,START	R	7	1533	H 796 934	GEN	1774
9304				SBR	TCLEAR,1696	R	7	1540	H 710 W96	GEN	1775
9305				LCA	@RELOAD SS@,110	R	7	1547	L W53 110	GEN	1775
9306				B	MONTER	R	4	1554	B 700	GEN	1775
9307	70	88	DSA	DSA	-2000	R	3	1560	!0?		1775
9308	70	89	TBAD2	DCW	XDOAD1	R	3	1563	111		1775
9309	70	90	LOGSW	DC	#1	R	1	1564			1775
9310	70	91		LTORG	*	R			1565		
				DCW	@_@	R	1	1565		LIT	1775
				DCW	@B@	R	1	1566		LIT	1775
				DCW	@____@	R	4	1570		LIT	1776
			HXCMNR	DCW	#03	R	3	1573		AREA	1776
				DCW	&NDTABL	R	3	1576	140	ADCON	1776
				DCW	@H@	R	1	1577		LIT	1776
				DCW	&YUSER1	R	3	1580	876	ADCON	1776
				DCW	@N@	R	1	1581		LIT	1776
			HLDZNR	DCW	#01	R	1	1582		AREA	1776
				DCW	@040@	R	3	1585		LIT	1777
				DCW	@,@	R	1	1586		LIT	1777
				DCW	@4@	R	1	1587		LIT	1777
				DCW	@3@	R	1	1588		LIT	1777
				DCW	@A@	R	1	1589		LIT	1777
			LAST R	DCW	#03	R	3	1592		AREA	1777
				DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	R	36	1628		LIT	1778
				DCW	@ @	R	1	1629		LIT	1778
				DCW	&9	R	1	1630		LIT	1778
			RDCNTR	DCW	#01	R	1	1631		AREA	1778
				DCW	&1	R	1	1632		LIT	1779
			HEX3 R	DCW	#03	R	3	1635		AREA	1779
			BTM R	DCW	#03	R	3	1638		AREA	1779
			TOP R	DCW	#03	R	3	1641		AREA	1779
				DCW	@013@	R	3	1644		LIT	1779
				DCW	@RELOAD SS@	R	9	1653		LIT	1779
9311	70	92		DCW	@}@	R	1	1654		GMARK	1779
9312	70	93		XFR	START1	R			B 337		1780

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9313	70	94		JOB	1401 FORTRAN RELOCATABLE PACKAGE	R					
9314	70	95	110	DCW	@]]]]@ ALL 11-5-8 FIRST CARD OF PACKAGE	R	5	0110			1783
9315	70	96	*								
9316	70	97	*								
9317	70	98	*		RELOCATABLE PACKAGE APPEARS HERE IN SYSTEM DECK						
9318	70	99	*		MUST MANUALLY ZONE ADDRESS IN OBLST TO RELOCATE						
9319	71	00	*								
9320	71	01	*								
9321	71	02	110	DCW	@:;;:;@ ALL 11-6-8 LAST CARD OF PACKAGE	R	5	0110			1784

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9322	71	03		JOB	1401 FORTRAN RELOADING SNAPSHOT	R					
9323	71	04		SFX	#	#					
9324	71	05	110	DCW	@RELOAD SS@	#	9	0110			1785
9325	71	06		ORG	STARTR	#			0934		
9326	71	07	BEGIN	B	EXIT1	#	4	0934	B  00		1786
9327	71	08	RETRN	MCW	@D@,WORD	#	7	0938	M 990 680		1786
9328	71	09		CW	WORD	#	4	0945	) 680		1786
9329	71	10		FENDX	C, , , STARTR, STARTR, , GM53S, FORMATPAK	#				MACRO	
9330				BSS	333,C	#	5	0949	B 333 C	GEN	1786
9331				SBR	INITAP&6,STARTR	#	7	0954	H 786 934	GEN	1786
9332				SBR	BCLEAR	#	4	0961	H 833	GEN	1786
9333				SBR	INITXT&3,STARTR	#	7	0965	H 796 934	GEN	1786
9334				SBR	TCLEAR,GM53S	#	7	0972	H 710 W96	GEN	1787
9335				LCA	@FORMATPAK@,110	#	7	0979	L 999 110	GEN	1787
9336				B	MONTER	#	4	0986	B 700	GEN	1787
9337	71	11		LTORG	*	#			0990		
				DCW	@D@	#	1	0990		LIT	1787
				DCW	@FORMATPAK@	#	9	0999		LIT	1787
9338	71	12	EXIT1	SBR	INITAP&6,333	#	7	1000	H 786 333		1787
9339	71	13		SBR	BCLEAR,EXIT1	#	7	1007	H 833  00		1788
9340	71	14		SBR	INITXT&3,RETRN	#	7	1014	H 796 938		1788
9341	71	15		SBR	TCLEAR,GM53S	#	7	1021	H 710 W96		1788
9342	71	16		LCA	@SNAPSHOT53@,110	#	7	1028	L  48 110		1788
9343	71	17		B	MONTER	#	4	1035	B 700		1788
9344	71	18		LTORG	*	#			1039		
				DCW	@SNAPSHOT53@	#	10	1048		LIT	1789
9345	71	19		ORG	1696	#			1696		
9346	71	20	GM53S	DCW	@}@	#	1	1696		GMARK	1790
9347	71	21		XFR	BEGIN	#			B 934		1791

GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9348	71	22		JOB	1401 FORTRAN SNAPSHOT 53S	#					
9349	71	23	XXX	EQU	0	#		0000			
9350	71	24	XL1	EQU	089	#		0089			
9351	71	25	XL2	EQU	094	#		0094			
9352	71	26	XL3	EQU	099	#		0099			
9353	71	27		ORG	333	#			0333		
9354	71	28		SBR	PRTXT&3	#	4	0333	H 567		1794
9355	71	29		SBR	HLDXT&6	#	4	0337	H 408		1794
9356	71	30		MCW	@000@,LINCT-2	#	7	0341	M 661 656		1794
9357	71	31		MCW	XL3, HLD32&6	#	7	0348	M 099 415		1794
9358	71	32		MCW	XL1, HLD31&6	#	7	0355	M 089 422		1794
9359	71	33		SBR	XL1, 1	#	7	0362	H 089 001		1794
9360	71	34		SBR	XL3, 202	#	7	0369	H 099 202		1795
9361	71	35		CS	332	#	4	0376	/ 332		1795
9362	71	36		CS		#	1	0380	/		1795
9363	71	37		MCW	110,210	#	7	0381	M 110 210		1795
9364	71	38		BSS	ONLY,F	#	5	0388	B 621 F		1795
9365	71	39		CC	1	#	2	0393	F 1		1795
9366	71	40		MCW	094,250	#	7	0395	M 094 250		1795
9367	71	41	HLDXT	SBR	216,XXX	#	7	0402	H 216 000		1796
9368	71	42	HLD32	SBR	256,XXX	#	7	0409	H 256 000		1796
9369	71	43	HLD31	SBR	244,XXX	#	7	0416	H 244 000		1796
9370	71	44		W		#	1	0423	2		1796
9371	71	45		CC	K	#	2	0424	F K		1796
9372	71	46		ZA	&2,PGCTR#2	#	7	0426	? 662 664		1796
9373	71	47	NULIN	CS	332	#	4	0433	/ 332		1796
9374	71	48		CS		#	1	0437	/		1797
9375	71	49		CC	J	#	2	0438	F J		1797
9376	71	50		MCW	LINCT,306	#	7	0440	M 658 306		1797
9377	71	51		MCW		#	1	0447	M		1797
9378	71	52		SBR	MVHED&6	#	4	0448	H 465		1797
9379	71	53		MCW	@9@, CTR-1	#	7	0452	M 665 668		1797
9380	71	54	MVHED	MCW	CTR-1,XXX	#	7	0459	M 668 000		1797
9381	71	55		MCW	HEAD	#	4	0466	M 651		1798
9382	71	56		SBR	MVHED&6	#	4	0470	H 465		1798
9383	71	57		A	@I0@, CTR#2	#	7	0474	A 667 669		1798
9384	71	58		BWZ	MVHED, CTR-1, 2	#	8	0481	V 459 668 2		1798
9385	71	59		A	&1,LINCT-2	#	7	0489	A 670 656		1798
9386	71	60		W		#	1	0496	2		1798
9387	71	61	LOOP	SW	0&X3	#	4	0497	, 0?0		1798
9388	71	62		MCW	0&X1,0&X3	#	7	0501	M 0 0 0?0		1799
9389	71	63		BW	CMPAB,0&X1	#	8	0508	V 520 0 0 1		1799
9390	71	64		CW	0&X3	#	4	0516	) 0?0		1799
9391	71	65	CMPAB	C	XL1,PARAM&2	#	7	0520	C 089 688		1799
9392	71	66		BU	CPL	#	5	0527	B 568 /		1799
9393	71	67		W		#	1	0532	2		1799
9394	71	68		WM		#	2	0533	2 )		1799
9395	71	69	RSTRX	MCW	HLD31&6,XL1	#	7	0535	M 422 089		1800
9396	71	70		MCW	HLD32&6,XL3	#	7	0542	M 415 099		1800
9397	71	71		CS	332	#	4	0549	/ 332		1800



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9398	71	71		CS		#	1	0553	/		1800
9399	71	73		BSS	*&5,G	#	5	0554	B 563 G		1800
9400	71	74		B	PRTXT	#	4	0559	B 564		1800
9401	71	75		H		#	1	0563	.		1800
9402	71	76	PRTXT	B	0	#	4	0564	B 000		1801
9403	71	77	CPL	SBR	XL1, 1&X1	#	7	0568	H 089 0 1		1801
9404	71	78		BCE	INC, XL3-2, 2	#	8	0575	B 632 097 2		1801
9405	71	79		SBR	XL3, 201	#	7	0583	H 099 201		1801
9406	71	80		W		#	1	0590	2		1801
9407	71	81		WM		#	2	0591	2 )		1801
9408	71	82		A	&1,PGCTR	#	7	0593	A 670 664		1801
9409	71	83		C	PGCTR,&15	#	7	0600	C 664 672		1802
9410	71	84		BU	NULIN	#	5	0607	B 433 /		1802
9411	71	85		S	PGCTR	#	4	0612	S 664		1802
9412	71	86		CCB	NULIN,1	#	5	0616	F 433 1		1802
9413	71	87	ONLY	MCW	WORD,220	#	7	0621	M 680 220		1802
9414	71	88		W	RSTRX	#	4	0628	2 535		1802
9415	71	89	INC	A	&1,XL3	#	7	0632	A 670 099		1802
9416	71	90		B	LOOP	#	4	0639	B 497		1803
9417	71	91	HEAD	DCW	@9.....@	#	9	0651			1803
9418	71	92		DCW	@9-@	#	2	0653			1803
9419	71	93	LINCT	DCW	00000	#	5	0658			1803
9420	71	94		LTORG	*	#			0659		
				DCW	@000@	#	3	0661		LIT	1803
				DCW	&2	#	1	0662		LIT	1803
			PGCTR#	DCW	#02	#	2	0664		AREA	1803
				DCW	@9@	#	1	0665		LIT	1804
				DCW	@I0@	#	2	0667		LIT	1804
			CTR #	DCW	#02	#	2	0669		AREA	1804
				DCW	&1	#	1	0670		LIT	1804
				DCW	&15	#	2	0672		LIT	1804
9421	71	95		DCW	@EXECUTE@	#	7	0679			1804
9422	71	96	WORD	DCW	@}@	#	1	0680		GMARK	1804
9423	71	97		XFR	RETRN	#			B 938		1805

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9424	71	98		JOB	1401 FORTRAN REPLACE PHASE TWO	#					
9425	71	99		SFX	Q	Q					
9426	72	00	NXTOP	EQU	086	Q		0086			
9427	72	01	NXBTM	EQU	083	Q		0083			
9428	72	02	X1	EQU	089	Q		0089			
9429	72	03	X2	EQU	094	Q		0094			
9430	72	04	X3	EQU	099	Q		0099			
9431	72	05	FIXWD	EQU	FIXWDR	Q		0930			
9432	72	06	FLTWD	EQU	FLTWDR	Q		0933			
9433	72	07		ORG	STARTR	Q			0934		
9434	72	08	INIT	SBR	GARY#3,1&X3	Q	7	0934	H V13	0?1	1808
9435	72	09		SW	1&X3	Q	4	0941	,	0?1	1808
9436	72	10		SBR	LIMIT#3,0&X2	Q	7	0945	H V16	0!0	1808
9437	72	11		SBR	TOP#3,0&X1	Q	7	0952	H V19	0!0	1808
9438	72	12		MCW	PARAM&2,X2	Q	7	0959	M 688	094	1808
9439	72	13		C	0&X2	Q	4	0966	C 0!0		1808
9440	72	14		C		Q	1	0970	C		1808
9441	72	15		C		Q	1	0971	C		1809
9442	72	16		SBR	RON&6	Q	4	0972	H T93		1809
9443	72	17		MCW	NXTOP,X2	Q	7	0976	M 086	094	1809
9444	72	18		MN	0&X2	Q	4	0983	D 0!0		1809
9445	72	19		SAR	TOP2#3	Q	4	0987	Q V22		1809
9446	72	20	TEST5	C	X3,LIMIT	Q	7	0991	C 099	V16	1809
9447	72	21	SWTCH	BE	EXITA	Q	5	0998	B /57	S	1809
9448	72	22		C	0&X3	Q	4	1003	C 0?0		1810
9449	72	23		SBR	X2	Q	4	1007	H 094		1810
9450	72	24		SBR	X3	Q	4	1011	H 099		1810
9451	72	25		BCE	TEST2,1&X3,T	Q	8	1015	B  95	0?1 T	1810
9452	72	26	CKFX	MCW	4&X3,BOX	Q	7	1023	M 0?4	V25	1810
9453	72	27		BCE	FXFLT,BOX-2,;	Q	8	1030	B T98	V23 ;	1810
9454	72	28		BCE	FXFLT,BOX-2, _	Q	8	1038	B T98	V23 _	1811
9455	72	29		BCE	RON,BOX-2, ]	Q	8	1046	B T87	V23 ]	1811
9456	72	30		MCW	BOX,4&X3	Q	7	1054	M V25	0?4	1811
9457	72	31	CKBOP	MCW	7&X3,BOX#3	Q	7	1061	M 0?7	V25	1811
9458	72	32		BCE	FXFLT,BOX-2,;	Q	8	1068	B T98	V23 ;	1811
9459	72	33		BCE	FXFLT,BOX-2, _	Q	8	1076	B T98	V23 _	1812
9460	72	34		MCW	BOX,7&X3	Q	7	1084	M V25	0?7	1812
9461	72	35		B	TEST5	Q	4	1091	B 991		1812
9462	72	36	TEST2	BCE	TEST5,4&X3,\$	Q	8	1095	B 991	0?4 \$	1812
9463	72	37		C	0&X3,@B700@	Q	7	1103	C 0?0	V29	1812
9464	72	38		BE	TEST5	Q	5	1110	B 991	S	1812
9465	72	39		BWZ	CKFX,4&X2,1	Q	8	1115	V  23	0!4 1	1813
9466	72	40		BWZ		Q	1	1123	V		1813
9467	72	41		BWZ		Q	1	1124	V		1813
9468	72	42		MCW	@B@,1&X3	Q	7	1125	M V30	0?1	1813
9469	72	43		MCW	4&X2,X1	Q	7	1132	M 0!4	089	1813
9470	72	44		MCW	0&X1,X1	Q	7	1139	M 0!0	089	1813
9471	72	45		MCW	X1,4&X2	Q	7	1146	M 089	0!4	1813
9472	72	46		B	CKFX	Q	4	1153	B  23		1814
9473	72	47	EXITA	MCW	&EXIT,SWTCH&3	Q	7	1157	M V33	01	1814

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9474	72	48		MCW	TOP,X3	Q	7	1164	M V19 099		1814
9475	72	49		MCW	@W96@,LIMIT FORM-1 CHG ON REASSM OF OBJ FORMAT	Q	7	1171	M V36 V16		1814
9476	72	50		B	TEST5	Q	4	1178	B 991		1814
9477	72	51	EXIT	MCW	GARY,X3	Q	7	1182	M V13 099		1814
9478	72	52		SBR	X3,1&X3	Q	7	1189	H 099 0?1		1815
9479	72	53		MZ	X3,ALL9	Q	7	1196	Y 099 V07		1815
9480	72	54		MZ		Q	1	1203	Y		1815
9481	72	55		MCW		Q	1	1204	M		1815
9482	72	56		MZ	NXBTM,ALL91	Q	7	1205	Y 083 V10		1815
9483	72	57		MZ		Q	1	1212	Y		1815
9484	72	58		MCW		Q	1	1213	M		1815
9485	72	59		C	ALL9,ALL91	Q	7	1214	C V07 V10		1816
9486	72	60		BE	SPCL	Q	5	1221	B S84 S		1816
9487	72	61		MCW	NXBTM,X3	Q	7	1226	M 083 099		1816
9488	72	62	CLEER	CS	0&X3	Q	4	1233	/ 0?0		1816
9489	72	63		SBR	X3	Q	4	1237	H 099		1816
9490	72	64		C	X3,ALL9	Q	7	1241	C 099 V07		1816
9491	72	65		BU	CLEER	Q	5	1248	B S33 /		1816
9492	72	66	SNGL	C	X3,GARY	Q	7	1253	C 099 V13		1817
9493	72	67		BE	EOJ	Q	5	1260	B S95 S		1817
9494	72	68		LCA	BLNK#1,0&X3	Q	7	1265	L V37 0?0		1817
9495	72	69		SBR	X3	Q	4	1272	H 099		1817
9496	72	70		CW	1&X3	Q	4	1276	) 0?1		1817
9497	72	71		B	SNGL	Q	4	1280	B S53		1817
9498	72	72	SPCL	MCW	NXBTM,X3	Q	7	1284	M 083 099		1817
9499	72	73		B	SNGL	Q	4	1291	B S53		1818
9500	72	74	EOJ	MCW	NXBTM,X3	Q	7	1295	M 083 099		1818
9501	72	75		MCW	@ @,0&X3	Q	7	1302	M V38 0?0		1818
9502	72	76		SBR	X3	Q	4	1309	H 099		1818
9503	72	77		MCW	@ @,0&X3 11-5-8	Q	7	1313	M V39 0?0		1818
9504	72	78		MCW	0&X3	Q	4	1320	M 0?0		1818
9505	72	79		SBR	X3	Q	4	1324	H 099		1818
9506	72	80		LCA	BLNK,2&X3	Q	7	1328	L V37 0?2		1819
9507	72	81		LCA	BLNK	Q	4	1335	L V37		1819
9508	72	82		MCW	DOSBSC,SUBSCR	Q	7	1339	M 909 191		1819
9509	72	83		FENDX	C,,XBEGIN,XBEGIN,XBEGIN,SYS2,SNAPSHOT	Q				MACRO	
9510				BSS	333,C	Q	5	1346	B 333 C	GEN	1819
9511				SBR	INITAP&6,XBEGIN	Q	7	1351	H 786 838	GEN	1819
9512				SBR	BCLEAR	Q	4	1358	H 833	GEN	1819
9513				SBR	INITXT&3,XBEGIN	Q	7	1362	H 796 838	GEN	1820
9514				SBR	TCLEAR,SYS2	Q	7	1369	H 710 V49	GEN	1820
9515				LCA	@SNAPSHOT@,110	Q	7	1376	L V47 110	GEN	1820
9516				B	MONTER	Q	4	1383	B 700	GEN	1820
9517	72	84	RON	SBR	4&X3,0	Q	7	1387	H 0?4 000		1820
9518	72	85		B	CKBOP	Q	4	1394	B  61		1820
9519	72	86	FXFLT	SBR	FXT&3	Q	4	1398	H U85		1821
9520	72	87		MCW	FIXWD,BOX2	Q	7	1402	M 930 094		1821
9521	72	88		BCE	*&8,BOX-2,_ 11-7-8	Q	8	1409	B U24 V23 _		1821
9522	72	89		MCW	FLTWD,BOX2	Q	7	1417	M 933 094		1821
9523	72	90		BCE	EOFX,BOX,0	Q	8	1424	B U75 V25 0		1821

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9524	72	91		BWZ	POSTV,BOX,B	Q	8	1432	V U86 V25 B		1822
9525	72	92	BOX2	EQU	X2	Q		0094			
9526	72	93		SW	BOX-1	Q	4	1440	, V24		1822
9527	72	94	LOOP	A	&1,BOX	Q	7	1444	A V48 V25		1822
9528	72	95		BWZ	DUN2,BOX,B	Q	8	1451	V U71 V25 B		1822
9529	72	96		MN	0&X2	Q	4	1459	D 0!0		1822
9530	72	97		SAR	X2	Q	4	1463	Q 094		1822
9531	72	98		B	LOOP	Q	4	1467	B U44		1822
9532	72	99	DUN2	CW	BOX-1	Q	4	1471	) V24		1823
9533	73	00	EOFX	MCW	BOX2,BOX	Q	7	1475	M 094 V25		1823
9534	73	01	FXT	B	0	Q	4	1482	B 000		1823
9535	73	02	POSTV	MN	BOX,SBR&6	Q	7	1486	D V25 V00		1823
9536	73	03		MN		Q	1	1493	D		1823
9537	73	04	SBR	SBR	BOX,0&X2	Q	7	1494	H V25 0!0		1823
9538	73	05		B	FXT	Q	4	1501	B U82		1823
9539	73	06	ALL9	DCW	999	Q	3	1507			1824
9540	73	07	ALL91	DCW	999	Q	3	1510			1824
9541	73	08		LTORG	*	Q			1511		
			GARY	Q DCW	#03	Q	3	1513		AREA	1824
			LIMITQ	DCW	#03	Q	3	1516		AREA	1824
			TOP	Q DCW	#03	Q	3	1519		AREA	1824
			TOP2	Q DCW	#03	Q	3	1522		AREA	1824
			BOX	Q DCW	#03	Q	3	1525		AREA	1824
				DCW	@B700@	Q	4	1529		LIT	1825
				DCW	@B@	Q	1	1530		LIT	1825
				DCW	&EXIT Q	Q	3	1533	/82	ADCON	1825
				DCW	@W96@	Q	3	1536		LIT	1825
			BLNK	Q DCW	#01	Q	1	1537		AREA	1825
				DCW	@ @	Q	1	1538		LIT	1825
				DCW	@ @	Q	1	1539		LIT	1825
				DCW	@SNAPSHOT@	Q	8	1547		LIT	1826
				DCW	&1	Q	1	1548		LIT	1826
9542	73	09	SYS2	DCW	@}@	Q	1	1549		GMARK	1826
9543	73	10		XFR	INIT	Q			B 934		1827

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9544	73	11		JOB	1401 FORTRAN SNAPSHOT PHASE	Q					
9545	73	12		FBEGN	SNAPSHOT,X1,R,,X3,R,8,XXX	Q				MACRO	
9546				SFX	8	8				GEN	
9547			XXX	EQU	0	8		0000		GEN	
9548			110	DCW	@SNAPSHOT@	8	8	0110		GEN	1830
9549			X1	EQU	089	8		0089		GEN	
9550			089	DCW	000	8	3	0089		GEN	1831
9551			091	DC	00	8	2	0091		GEN	1831
9552			X3	EQU	099	8		0099		GEN	
9553			099	DCW	000	8	3	0099		GEN	1832
9554			100	DC	0	8	1	0100		GEN	1832
9555	73	13		ORG	XBEGIN	8			0838		
9556	73	14	START	BCE	*&5,PARAM&8,S	8	8	0838	B 850 694 S		1833
9557	73	15		B	RSTRX	8	4	0846	B /28		1833
9558	73	16		BW	NOGUD,FAILSW	8	8	0850	V /58 184 1		1833
9559	73	17		SBR	X1,4200	8	7	0858	H 089 20		1833
9560	73	18		SBR	X3,201	8	7	0865	H 099 201		1833
9561	73	19		BCE	NOIO,PARAM&10,X	8	8	0872	B 900 696 X		1834
9562	73	20		BCE	LIO,PARAM&10,L	8	8	0880	B 925 696 L		1834
9563	73	21		BCE	AFORM,PARAM&10,A	8	8	0888	B 950 696 A		1834
9564	73	22		B	PRINT	8	4	0896	B 971		1834
9565	73	23	NOIO	SBR	X1,1600	8	7	0900	H 089 W00		1834
9566	73	24		MCW	@01600@,LINCT	8	7	0907	M T26 T21		1835
9567	73	25		MCW	@1696@,BIGMS	8	7	0914	M T30 T00		1835
9568	73	26		B	PRINT	8	4	0921	B 971		1835
9569	73	27	LIO	SBR	X1,2000	8	7	0925	H 089 !00		1835
9570	73	28		MCW	@02000@,LINCT	8	7	0932	M T35 T21		1835
9571	73	29		MCW	@2015@,BIGMS	8	7	0939	M T39 T00		1835
9572	73	30		B	PRINT	8	4	0946	B 971		1836
9573	73	31	AFORM	SBR	X1,4600	8	7	0950	H 089 60		1836
9574	73	32		MCW	@04600@,LINCT	8	7	0957	M T44 T21		1836
9575	73	33		MCW	@4616@,BIGMS	8	7	0964	M T48 T00		1836
9576	73	34	PRINT	MESSG	@SNAPSHOT OF OBJECT PROGRAM@,60,1,J	8				MACRO	
9577			PRINT	CC	1	8	2	0971	F 1	GEN	1836
9578				CS	332	8	4	0973	/ 332	GEN	1836
9579				CS		8	1	0977	/	GEN	1836
9580				MCW	@SNAPSHOT OF OBJECT PROGRAM@,60&200	8	7	0978	M T74 260	GEN	1837
9581				W		8	1	0985	2	GEN	1837
9582				CC	J	8	2	0986	F J	GEN	1837
9583	73	35		MESSG	@INPUT/OUTPUT AREAS LOCATED FROM 001-332@,39,,J	8				MACRO	
9584				CS	332	8	4	0988	/ 332	GEN	1837
9585				CS		8	1	0992	/	GEN	1837
9586				MCW	@INPUT/OUTPUT AREAS LOCATED FROM 001-332@,39&200	8	7	0993	M U13 239	GEN	1837
9587				W		8	1	1000	2	GEN	1837
9588				CC	J	8	2	1001	F J	GEN	1838
9589	73	36		MESSG	BIGMS,48,,K	8				MACRO	
9590				CS	332	8	4	1003	/ 332	GEN	1838
9591				CS		8	1	1007	/	GEN	1838
9592				MCW	BIGMS,48&200	8	7	1008	M T00 248	GEN	1838
9593				W		8	1	1015	2	GEN	1838

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9594				CC	K	8	2	1016	F K	GEN	1838
9595	73	37		ZA	&3,PGCTR	8	7	1018	? U14 U67		1838
9596	73	38	NULIN	CS	332	8	4	1025	/ 332		1839
9597	73	39		CS		8	1	1029	/		1839
9598	73	40		CC	J	8	2	1030	F J		1839
9599	73	41		MCW	LINCT,311	8	7	1032	M T21 311		1839
9600	73	42		MCW		8	1	1039	M		1839
9601	73	43		MCW		8	1	1040	M		1839
9602	73	44		SBR	MVHED&6	8	4	1041	H  58		1839
9603	73	45		MCW	@9@,CTR-1	8	7	1045	M U15 U18		1840
9604	73	46	MVHED	MCW	CTR-1,XXX	8	7	1052	M U18 000		1840
9605	73	47		MCW	HEAD	8	4	1059	M T09		1840
9606	73	48		SBR	MVHED&6	8	4	1063	H  58		1840
9607	73	49		A	@I0@,CTR#2	8	7	1067	A U17 U19		1840
9608	73	50		BWZ	MVHED,CTR-1,2	8	8	1074	V  52 U18 2		1840
9609	73	51		A	&1,LINCT-2	8	7	1082	A U20 T19		1841
9610	73	52		W		8	1	1089	2		1841
9611	73	53	LOOP	SW	0&X3	8	4	1090	, 0?0		1841
9612	73	54		MCW	0&X1,0&X3	8	7	1094	M 0 0 0?0		1841
9613	73	55		BW	CMPAB,0&X1	8	8	1101	V /13 0 0 1		1841
9614	73	56		CW	0&X3	8	4	1109	) 0?0		1841
9615	73	57	CMPAB	C	X1,PARAM&2	8	7	1113	C 089 688		1841
9616	73	58		BU	CPL	8	5	1120	B /88 /		1842
9617	73	59		W		8	1	1125	2		1842
9618	73	60		WM		8	2	1126	2 )		1842
9619	73	61	RSTRX	FENDX	C,,,,BEGIN/, ,SYSG,CONDECK1	8				MACRO	
9620			RSTRX	BSS	333,C	8	5	1128	B 333 C	GEN	1842
9621				SBR	INITXT&3,BEGIN/	8	7	1133	H 796 884	GEN	1842
9622				SBR	TCLEAR,SYSG	8	7	1140	H 710 U70	GEN	1842
9623				LCA	@CONDECK1@,110	8	7	1147	L U28 110	GEN	1842
9624				B	MONTER	8	4	1154	B 700	GEN	1843
9625	73	62	NOGUD	MESSG	@SNAPSHOT DEFERRED DUE TO INPUT ERRORS@,37,J	8				MACRO	
9626			NOGUD	CC	J	8	2	1158	F J	GEN	1843
9627				CS	332	8	4	1160	/ 332	GEN	1843
9628				CS		8	1	1164	/	GEN	1843
9629				MCW	@SNAPSHOT DEFERRED DUE TO INPUT ERRORS@,37&200	8	7	1165	M U65 237	GEN	1843
9630				W		8	1	1172	2	GEN	1843
9631	73	63		FORMS		8				MACRO	
9632				BCV	*&5	8	5	1173	B /82 @	GEN	1843
9633				B	*&3	8	4	1178	B /84	GEN	1844
9634				CC	1	8	2	1182	F 1	GEN	1844
9635	73	64		B	RSTRX	8	4	1184	B /28		1844
9636	73	65	CPL	SBR	X1,1&X1	8	7	1188	H 089 0 1		1844
9637	73	66		BCE	INC,X3-2,2	8	8	1195	B S42 097 2		1844
9638	73	67		SBR	X3,201	8	7	1203	H 099 201		1844
9639	73	68		W		8	1	1210	2		1844
9640	73	69		WM		8	2	1211	2 )		1845
9641	73	70		A	&1,PGCTR#2	8	7	1213	A U20 U67		1845
9642	73	71		C	PGCTR,&15	8	7	1220	C U67 U69		1845
9643	73	72		BU	NULIN	8	5	1227	B  25 /		1845

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9644	73	73		S	PGCTR	8	4	1232	S U67		1845
9645	73	74		CC	1	8	2	1236	F 1		1845
9646	73	75		B	NULIN	8	4	1238	B  25		1845
9647	73	76	INC	A	&1,X3	8	7	1242	A U20 099		1846
9648	73	77		B	LOOP	8	4	1249	B  90		1846
9649	73	78	BIGMS	DCW	@FIXED OBJECT TIME ROUTINES LOCATED FROM 333-4279@	8	48	1300			1848
9650	73	79	HEAD	DCW	@9.....@	8	9	1309			1848
9651	73	80		DCW	@9@	8	1	1310			1848
9652	73	81		DCW	@-AREA-@	8	6	1316			1848
9653	73	82	LINCT	DCW	04200	8	5	1321			1848
9654	73	83		LTORG	*	8			1322		
				DCW	@01600@	8	5	1326		LIT	1849
				DCW	@1696@	8	4	1330		LIT	1849
				DCW	@02000@	8	5	1335		LIT	1849
				DCW	@2015@	8	4	1339		LIT	1849
				DCW	@04600@	8	5	1344		LIT	1849
				DCW	@4616@	8	4	1348		LIT	1849
				DCW	@SNAPSHOT OF OBJECT PROGRAM@	8	26	1374		LIT	1850
				DCW	@INPUT/OUTPUT AREAS LOCATED FROM 001-332@	8	39	1413		LIT	1851
				DCW	&3	8	1	1414		LIT	1852
				DCW	@9@	8	1	1415		LIT	1852
				DCW	@I0@	8	2	1417		LIT	1852
			CTR 8	DCW	#02	8	2	1419		AREA	1852
				DCW	&1	8	1	1420		LIT	1852
				DCW	@CONDECK1@	8	8	1428		LIT	1852
				DCW	@SNAPSHOT DEFERRED DUE TO INPUT ERRORS@	8	37	1465		LIT	1853
			PGCTR8	DCW	#02	8	2	1467		AREA	1853
				DCW	&15	8	2	1469		LIT	1854
9655	73	84	SYSG	DCW	@}@	8	1	1470		GMARK	1854
9656	73	85		XFR	START	8			B 838		1855

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9657	73	86		JOB	1401 FORTRAN CONDENSED DECK PHASE ONE	8					
9658	73	87		FBEGN	CONDECK1,,,,,,,,/	8				MACRO	
9659				SFX	/	/				GEN	
9660			110	DCW	@CONDECK1@	/	8	0110		GEN	1858
9661	73	88	LAST	EQU	CONLST	/		0194			
9662	73	89		ORG	XBEGIN	/			0838		
9663	73	90	PCHCD	SBR	PXT&3	/	4	0838	H 858		1859
9664	73	91		A	&1,175	/	7	0842	A 883 175		1859
9665	73	92		BSS	MCW18,B	/	5	0849	B 859 B		1859
9666	73	93		P		/	1	0854	4		1859
9667	73	94	PXT	B	0	/	4	0855	B 000		1859
9668	73	95	MCW18	MCW	180,280	/	7	0859	M 180 280		1859
9669	73	96		MCW		/	1	0866	M		1859
9670	73	97		WP		/	1	0867	6		1860
9671	73	98		FORMS		/				MACRO	
9672				BCV	*&5	/	5	0868	B 877 @	GEN	1860
9673				B	*&3	/	4	0873	B 879	GEN	1860
9674				CC	1	/	2	0877	F 1	GEN	1860
9675	73	99		B	PXT	/	4	0879	B 855		1860
9676	74	00		LTORG	*	/			0883		
				DCW	&1	/	1	0883		LIT	1860
9677	74	01	BEGIN	BCE	GOTTA,PARAM&7,P	/	8	0884	B 896 693 P		1860
9678	74	02		B	FENDX	/	4	0892	B 956		1861
9679	74	03	GOTTA	BW	FENDX,FAILSW	/	8	0896	V 956 184 1		1861
9680	74	04		LCA	CONLST, LAST	/	7	0904	L 194 194		1861
9681	74	05		CS	180	/	4	0911	/ 180		1861
9682	74	06		SW	101	/	4	0915	, 101		1861
9683	74	07		MCW	PARAM&1,180	/	7	0919	M 685 180		1861
9684	74	08		BSS	MESSG,B	/	5	0926	B 935 B		1861
9685	74	09		B	CDDMP	/	4	0931	B 997		1862
9686	74	10	MESSG	MESSG	@CONDENSED DECK@,60,1,J	/				MACRO	
9687			MESSG	CC	1	/	2	0935	F 1	GEN	1862
9688				CS	332	/	4	0937	/ 332	GEN	1862
9689				CS		/	1	0941	/	GEN	1862
9690				MCW	@CONDENSED DECK@,60&200	/	7	0942	M U04 260	GEN	1862
9691				W		/	1	0949	2	GEN	1862
9692				CC	J	/	2	0950	F J	GEN	1862
9693	74	11		B	CDDMP	/	4	0952	B 997		1863
9694	74	12	FENDX	FENDX	C, , , BEGIN, BEGIN, BEGIN, SYS1, CONDECK2	/				MACRO	
9695			FENDX	BSS	333,C	/	5	0956	B 333 C	GEN	1863
9696				SBR	INITAP&6,BEGIN	/	7	0961	H 786 884	GEN	1863
9697				SBR	BCLEAR	/	4	0968	H 833	GEN	1863
9698				SBR	INITXT&3,BEGIN	/	7	0972	H 796 884	GEN	1863
9699				SBR	TCLEAR, SYS1	/	7	0979	H 710 U17	GEN	1863
9700				LCA	@CONDECK2@,110	/	7	0986	L U12 110	GEN	1864
9701				B	MONTER	/	4	0993	B 700	GEN	1864
9702	74	13	CDDMP	LCA	@0000@,175	/	7	0997	L U16 175		1864
9703	74	14		BWZ	LITCS,PARAM&2,2	/	8	1004	V  45 688 2		1864
9704	74	15		MCW	CS1A,152	/	7	1012	M T19 152		1864
9705	74	16		B	PCHCD	/	4	1019	B 838		1864



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9706	74	17		MCW	PARAM&2,CS2XA	/	7	1023	M 688 T48		1865
9707	74	18		MCW	CS2A,171	/	7	1030	M T90 171		1865
9708	74	19		B	PCHCD	/	4	1037	B 838		1865
9709	74	20		B	DOBC1	/	4	1041	B  74		1865
9710	74	21	LITCS	MCW	CS1,144	/	7	1045	M /40 144		1865
9711	74	22		B	PCHCD	/	4	1052	B 838		1865
9712	74	23		MCW	PARAM&2,CS2X	/	7	1056	M 688 /69		1866
9713	74	24		MCW	CS2, 170	/	7	1063	M S10 170		1866
9714	74	25		B	PCHCD	/	4	1070	B 838		1866
9715	74	26	DOBC1	MCW	BC1,171	/	7	1074	M S21 171		1866
9716	74	27		CS		/	1	1081	/		1866
9717	74	28		LCA	BC2,146	/	7	1082	L S67 146		1866
9718	74	29		B	PCHCD	/	4	1089	B 838		1866
9719	74	30		B	FENDX	/	4	1093	B 956		1867
9720	74	31	CS1	DCW	@,008015,019026,030,034041,045,053,0570571026@	/	44	1140			1869
9721	74	32	CS2X	DCW	@L068112,102106,113/101099/I99@	/	29	1169			1869
9722	74	33	CS2	DC	@,027A070028)027B0010270B0261,001/001113I0@	/	41	1210			1871
9723	74	34	BC1	DCW	@,0010011040@	/	11	1221			1871
9724	74	35	BC2	DCW	@,008015,022029,036040,047054,061068,072/061039@	/	46	1267			1873
9725	74	36		DCW	@,008015,022026,030037,044,049,053053@	/	36	1303			1874
9726	74	37	CS1A	DC	@N000000N00001026@	/	16	1319			1875
9727	74	38	CS2XA	DCW	@L068116,105106,110117B101/I9I@	/	29	1348			1876
9728	74	39	CS2A	DC	@#071029C029056B026/B001/0991,001/001117I0?@	/	42	1390			1878
9729	74	40		LTORG	*	/			1391		
				DCW	@CONDENSED DECK@	/	14	1404		LIT	1878
				DCW	@CONDECK2@	/	8	1412		LIT	1878
				DCW	@0000@	/	4	1416		LIT	1878
9730	74	41	SYS1	DCW	@}@	/	1	1417		GMARK	1878
9731	74	42		XFR	BEGIN	/			B 884		1879

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9732	74	43		JOB	1401 FORTRAN CONDENSED DECK PHASE TWO	/					
9733	74	44		FBEGN	CONDECK2,,,,,,2	/				MACRO	
9734				SFX	2	2				GEN	
9735			110	DCW	@CONDECK2@	2	8	0110		GEN	1882
9736	74	45		ORG	BEGIN/	2			0884		
9737	74	46	START	MCW	MONITOR,READ	2	7	0884	M 769  74		1883
9738	74	47		BW	PCHTS,XLINKW BRANCH IF XLINKF SWITCH OFF	2	8	0891	V 984 185 1		1883
9739	74	48		MCW	MONITOR,SKPSS SKIP SNAPSHOT	2	7	0899	M 769 920		1883
9740	74	49		SBR	TPERR&15,RDTPS	2	7	0906	H /17 931		1883
9741	74	50		SBR	CK4B-1,MVNSS	2	7	0913	H /30 924		1883
9742	74	51	SKPSS	R	ENDSS	2	4	0920	1 944		1884
9743	74	52	MVNSS	MCW	&9,RDCNT	2	7	0924	M V36 V85		1884
9744	74	53	RDTPS	RT	1,1	2	8	0931	M %U1 001 R		1884
9745	74	54		BER	TPERR	2	5	0939	B /02 L		1884
9746	74	55	ENDSS	BCE	*&5,68,B	2	8	0944	B 956 068 B		1884
9747	74	56		B	SKPSS	2	4	0952	B 920		1884
9748	74	57		SBR	GETXT&3,CK4B 11-5-8 CARD ALREADY READ	2	7	0956	H /01 /31		1885
9749	74	58		SBR	TPERR&15,RDTAP RESTORE TPERR OPERANDS	2	7	0963	H /17  85		1885
9750	74	59		SBR	CK4B-1,MVNIN	2	7	0970	H /30  78		1885
9751	74	60		A	&1,NBRWS	2	7	0977	A V37 V86		1885
9752	74	61	PCHTS	BCE	*&5,PARAM&7,P	2	8	0984	B 996 693 P		1885
9753	74	62		B	READ	2	4	0992	B  74		1886
9754	74	63		BW	NOPUN,FAILSW	2	8	0996	V /66 184 1		1886
9755	74	64		MCW	@1040@,171	2	7	1004	M V41 171		1886
9756	74	65		MCW	@L014100,092097,081082,083084@	2	4	1011	M V69		1886
9757	74	66		CS		2	1	1015	/		1886
9758	74	67		LCA	@000000000000000@, 114	2	7	1016	L V83 114		1886
9759	74	68		MCW	@B@,RETRN	2	7	1023	M V84  70		1886
9760	74	69		NOP	PCHCD	2	4	1030	N 838		1887
9761	74	70		MCW	@1040@,171	2	7	1034	M V41 171		1887
9762	74	71		MCW	LDFMT-1	2	4	1041	M V34		1887
9763	74	72		CS		2	1	1045	/		1887
9764	74	73		MCW	MASK,157	2	7	1046	M U63 157		1887
9765	74	74		SW	SYSC2	2	4	1053	, W12		1887
9766	74	75		MCW	SYSC2,108	2	7	1057	M W12 108		1887
9767	75	76		MCW	PARAM&6	2	4	1064	M 692		1888
9768	75	77		MCW		2	1	1068	M		1888
9769	75	78		LCA		2	1	1069	L		1888
9770	74	79	RETRN	NOP	PCHCD	2	4	1070	N 838		1888
9771	74	80	READ	R	GETXT	2	4	1074	1  98		1888
9772	74	81	MVNIN	MCW	&9,RDCNT#1	2	7	1078	M V36 V85		1888
9773	74	82	RDTAP	RT	1,1	2	8	1085	M %U1 001 R		1888
9774	74	83		BER	TPERR	2	5	1093	B /02 L		1889
9775	74	84	GETXT	B	ONCE	2	4	1098	B /55		1889
9776	74	85	TPERR	BSP	1	2	5	1102	U %U1 B		1889
9777	74	86		S	&1,RDCNT	2	7	1107	S V37 V85		1889
9778	74	87		BWZ	RDTAP,RDCNT,B	2	8	1114	V  85 V85 B		1889
9779	74	88		NOP	3333	2	4	1122	N C33		1889
9780	74	89		H		2	1	1126	.		1889
9781	74	90		B	MVNIN	2	4	1127	B  78		1890

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9782	74	91	CK4B	BCE	FENDX,68,B	2	8	1131	B /85 068 B		1890
9783	74	92		MCW	71,171	2	7	1139	M 071 171		1890
9784	74	93		CHAIN	5	2				MACRO	
9785				MCW		2	1	1146	M	GEN	1890
9786				MCW		2	1	1147	M	GEN	1890
9787				MCW		2	1	1148	M	GEN	1890
9788				MCW		2	1	1149	M	GEN	1890
9789				MCW		2	1	1150	M	GEN	1891
9790	74	94		B	RETRN	2	4	1151	B  70		1891
9791	74	95	ONCE	SBR	GETXT&3,CK4B	2	7	1155	H /01 /31		1891
9792	74	96		B	READ	2	4	1162	B  74		1891
9793	74	97	NOPUN	MESSG	MESSG,43,,J	2				MACRO	
9794			NOPUN	CS	332	2	4	1166	/ 332	GEN	1891
9795				CS		2	1	1170	/	GEN	1891
9796				MCW	MESSG,43&200	2	7	1171	M V06 243	GEN	1891
9797				W		2	1	1178	2	GEN	1892
9798				CC	J	2	2	1179	F J	GEN	1892
9799	74	98		B	READ	2	4	1181	B  74		1892
9800	74	99	FENDX	A	&1,NBRWSW#1	2	7	1185	A V37 V86		1892
9801	75	00		BCE	EXIT,NBRWSW,3	2	8	1192	B S95 V86 3		1892
9802	75	01		BCE	READ,NBRWSW,2	2	8	1200	B  74 V86 2		1892
9803	75	02		BW	*&5,XLINKW	2	8	1208	V S20 185 1		1892
9804	75	03		B	READ	2	4	1216	B  74		1893
9805	75	04		MCW	MONITOR,SKPXL	2	7	1220	M 769 S41		1893
9806	75	05		SBR	TPERR&15,RDTPX	2	7	1227	H /17 S52		1893
9807	75	06		SBR	CK4B-1,MVNXL	2	7	1234	H /30 S45		1893
9808	75	07	SKPXL	R	ENDXL	2	4	1241	1 S65		1893
9809	75	08	MVNXL	MCW	&9,RDCNT	2	7	1245	M V36 V85		1893
9810	75	09	RDTPX	RT	1,1	2	8	1252	M %U1 001 R		1894
9811	75	10		BER	TPERR	2	5	1260	B /02 L		1894
9812	75	11	ENDXL	BCE	*&5,68,B	2	8	1265	B S77 068 B		1894
9813	75	12		B	SKPXL	2	4	1273	B S41		1894
9814	75	13		SBR	TPERR&15,RDTAP	2	7	1277	H /17  85		1894
9815	75	14		SBR	CK4B-1,MVNIN	2	7	1284	H /30  78		1894
9816	75	15		B	FENDX	2	4	1291	B /85		1895
9817	75	16	EXIT	SBR	GETXT&3,FEND2	2	7	1295	H /01 T06		1895
9818	75	17		B	READ	2	4	1302	B  74		1895
9819	75	18	FEND2	BCE	FEND3,RETRN,N	2	8	1306	B U05  70 N		1895
9820	75	19		CS	171	2	4	1314	/ 171		1895
9821	75	20		SW	101	2	4	1318	, 101		1895
9822	75	21		MCW	@1040@,171	2	7	1322	M V41 171		1895
9823	75	22		MCW	LDFMT-1	2	4	1329	M V34		1896
9824	75	23		MCW	@M002V36@,146	2	7	1333	M V93 146		1896
9825	75	24		MCW	PARAM&4,102	2	7	1340	M 690 102		1896
9826	75	25		B	PCHCD	2	4	1347	B 838		1896
9827	75	26		MCW	@837@,146	2	7	1351	M V96 146		1896
9828	75	27		MCW	PARAM&6,102	2	7	1358	M 692 102		1896
9829	75	28		B	PCHCD	2	4	1365	B 838		1897
9830	75	29		MCW	@3T30@,146	2	7	1369	M W00 146		1897
9831	75	30		MCW	GOTOFN,103	2	7	1376	M 188 103		1897

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9832	75	31		B	PCHCD	2	4	1383	B 838		1897
9833	75	32		MCW	@S09@,146 CHANGE ON REASM OF OB ARITH STSUB&3	2	7	1387	M W03 146		1897
9834	75	33		MCW	SUBSCR,103	2	7	1394	M 191 103		1897
9835	75	34		B	PCHCD	2	4	1401	B 838		1898
9836	75	35	FEND3	FENDX	C, , ,XBEGIN,XBEGIN,XBEGIN,SYSC2,CONDECK3	2				MACRO	
9837			FEND3	BSS	333,C	2	5	1405	B 333 C	GEN	1898
9838				SBR	INITAP&6,XBEGIN	2	7	1410	H 786 838	GEN	1898
9839				SBR	BCLEAR	2	4	1417	H 833	GEN	1898
9840				SBR	INITXT&3,XBEGIN	2	7	1421	H 796 838	GEN	1898
9841				SBR	TCLEAR,SYSC2	2	7	1428	H 710 W12	GEN	1898
9842				LCA	@CONDECK3@,110	2	7	1435	L W11 110	GEN	1899
9843				B	MONTER	2	4	1442	B 700	GEN	1899
9844	75	36		DCW	@L008@	2	4	1449			1899
9845	75	37		DC	PARAM&7	2	3	1452	693		1899
9846	75	38		DC	@,@	2	1	1453			1899
9847	75	39		DC	PARAM&3	2	3	1456	689		1899
9848	75	40		DC	PARAM&5	2	3	1459	691		1899
9849	75	41		DC	@,@	2	1	1460			1899
9850	75	42	MASK	DC	PARAM&7	2	3	1463	693		1899
9851	75	43	MESSG	DCW	@CONDENSED DECK DEFERRED DUE TO INPUT ERRORS@	2	43	1506			1901
9852	75	44	LDFMT	DCW	@L039000,040040,040040,040040\$@	2	29	1535			1901
9853	75	45		LTORG	*	2			1536		
				DCW	&9	2	1	1536		LIT	1901
				DCW	&1	2	1	1537		LIT	1901
				DCW	@1040@	2	4	1541		LIT	1901
				DCW	@L014100,092097,081082,083084@	2	28	1569		LIT	1902
				DCW	@000000000000000@	2	14	1583		LIT	1903
				DCW	@B@	2	1	1584		LIT	1903
			RDCNT2	DCW	#01	2	1	1585		AREA	1903
			NBRW2	DCW	#01	2	1	1586		AREA	1903
				DCW	@M002V36@	2	7	1593		LIT	1903
				DCW	@837@	2	3	1596		LIT	1903
				DCW	@3T30@	2	4	1600		LIT	1903
				DCW	@S09@	2	3	1603		LIT	1904
				DCW	@CONDECK3@	2	8	1611		LIT	1904
9854	75	46	SYSC2	DCW	@}@	2	1	1612		GMARK	1904
9855	75	47	PCHCD	EQU	PCHCD/	2		0838			
9856	75	48		XFR	START	2			B 884		1905

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9857	75	49		JOB	1401 FORTRAN FIXED ROUTINE FOR CONDENSING ROUTINE	2					
9858	75	50	110	DCW	@]]]]@ ALL 11-5-8 FIRST CARD	2	5	0110			1908
9859	75	51	*								
9860	75	52	*								
9861	75	53	*		COPY OF FIXED PACKAGE						
9862	75	54	*		SNAPSHOT - XLINK - ARITH						
9863	75	55	*								
9864	75	56	110	DCW	@:~::~~::~@ ALL 11-6-8 LAST CARD	2	5	0110			1909

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9865	75	57		JOB	1401 FORTRAN CONDENSED DECK PHASE THREE	2					
9866	75	58		FBEGN	CONDECK3,X1,R,X2,R,X3,R,1	2				MACRO	
9867				SFX	1	1				GEN	
9868			110	DCW	@CONDECK3@	1	8	0110		GEN	1910
9869			X1	EQU	089	1		0089		GEN	
9870			089	DCW	000	1	3	0089		GEN	1911
9871			091	DC	00	1	2	0091		GEN	1911
9872			X2	EQU	094	1		0094		GEN	
9873			094	DCW	000	1	3	0094		GEN	1911
9874			096	DC	00	1	2	0096		GEN	1911
9875			X3	EQU	099	1		0099		GEN	
9876			099	DCW	000	1	3	0099		GEN	1911
9877			100	DC	0	1	1	0100		GEN	1911
9878	75	59	LAST	EQU	CONLST	1		0194			
9879	75	60		ORG	XBEGIN	1			0838		
9880	75	61	BEGIN	MCW	GOGOGO,X1	1	7	0838	M 183 089		1912
9881	75	62		BCE	*&5,PARAM&7,P	1	8	0845	B 857 693 P		1912
9882	75	63		B	GARY	1	4	0853	B U74		1912
9883	75	64		BW	GARY,FAILSW	1	8	0857	V U74 184 1		1912
9884	75	65	REST	SBR	WPB&3,RESET	1	7	0865	H /55 893		1912
9885	75	66		MCW	CON40-11,BOX1	1	7	0872	M V10 V38		1913
9886	75	67		MCW	@146@,X3	1	7	0879	M V25 099		1913
9887	75	68		MCW	@L@,140	1	7	0886	M V26 140		1913
9888	75	69	RESET	CS	139	1	4	0893	/ 139		1913
9889	75	70		FORMS		1				MACRO	
9890				BCV	*&5	1	5	0897	B 906 @	GEN	1913
9891				B	*&3	1	4	0902	B 908	GEN	1913
9892				CC	1	1	2	0906	F 1	GEN	1913
9893	75	71		MCW	CON40,171	1	7	0908	M V21 171		1914
9894	75	72		SW	140	1	4	0915	, 140		1914
9895	75	73		CS	332	1	4	0919	/ 332		1914
9896	75	74		CS		1	1	0923	/		1914
9897	75	75		SW	101	1	4	0924	, 101		1914
9898	75	76		MCW	@001@,X2	1	7	0928	M V29 094		1914
9899	75	77		MCW	@1@,FLIP#1	1	7	0935	M V30 V31		1914
9900	75	78		MCW	BOX1#7,153	1	7	0942	M V38 153		1915
9901	75	79		BW	SKIP2,SKPSW	1	8	0949	V S91 V22 1		1915
9902	75	80	MOVE	MN	0&X1,100&X2	1	7	0957	D 0 0 1!0		1915
9903	75	81		MZ	0&X1,100&X2	1	7	0964	Y 0 0 1!0		1915
9904	75	82	CPAR	C	LAST,X1	1	7	0971	C 194 089		1915
9905	75	83		BE	TERM	1	5	0978	B S04 S		1916
9906	75	84		SBR	X1,1&X1	1	7	0983	H 089 0 1		1916
9907	75	85		SBR	X2,1&X2	1	7	0990	H 094 0!1		1916
9908	75	86		BCE	SKIP,0&X1,]	1	8	0997	B S83 0 0 ]		1916
9909	75	87		BW	CDFUL,0&X1	1	8	1005	V S15 0 0 1		1916
9910	75	88	TBKFF	C	@040@,X2	1	7	1013	C V41 094		1917
9911	75	89		BL	MOVE	1	5	1020	B 957 T		1917
9912	75	90		C	@160@,X3	1	7	1025	C V44 099		1917
9913	75	91		BL	LOZNG	1	5	1032	B /75 T		1917
9914	75	92		MCW	@040@,167	1	7	1037	M V41 167		1917

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9915	75	93		BH	* & 8	1	5	1044	B   56 U		1917
9916	75	94		MCW	@040@, 164	1	7	1049	M V41 164		1918
9917	75	95		CW	140	1	4	1056	) 140		1918
9918	75	96	SW	SW	000	1	4	1060	, 000		1918
9919	75	97		SBR	X2	1	4	1064	H 094		1918
9920	75	98		A	-990,X2&1	1	7	1068	A V47 095		1918
9921	75	99		MCW	239,139	1	7	1075	M 239 139		1918
9922	76	00	SBR	SBR	X1,000	1	7	1082	H 089 000		1919
9923	76	01	COMMA	MCW	CON40-11,BOX1	1	7	1089	M V10 V38		1919
9924	76	02		MCW	@146@,X3	1	7	1096	M V25 099		1919
9925	76	03	WP	A	@1@,CDNO	1	7	1103	A V30 175		1919
9926	76	04		MN	0&X2	1	4	1110	D 0 0		1919
9927	76	05		SBR	143	1	4	1114	H 143		1919
9928	76	06		C	143,@000@	1	7	1118	C 143 V50		1920
9929	76	07		BE	END2	1	5	1125	B U26 S		1920
9930	76	08		MN	0&X1	1	4	1130	D 0 0		1920
9931	76	09		SBR	146	1	4	1134	H 146		1920
9932	76	10		LCA	180,280	1	7	1138	L 180 280		1920
9933	76	11		LCA		1	1	1145	L		1920
9934	76	12		LCA		1	1	1146	L		1920
9935	76	13		BSS	SWLWP,B	1	5	1147	B /56 B		1921
9936	76	14	WPB	P	RESET	1	4	1152	4 893		1921
9937	76	15	SWLWP	SW	LWPB&1	1	4	1156	, /72		1921
9938	76	16		MCW	WPB&3,LWPB&3	1	7	1160	M /55 /74		1921
9939	76	17		CW	LWPB&1	1	4	1167	) /72		1921
9940	76	18	LWPB	WP	RESET	1	4	1171	6 893		1921
9941	76	19	LOZNG	MCW	@)@,BOX1-6	1	7	1175	M V51 V32		1921
9942	76	20		MCW	X1,BOX1	1	7	1182	M 089 V38		1922
9943	76	21		MCW	X1	1	4	1189	M 089		1922
9944	76	22		MCW	@153@,X3	1	7	1193	M V54 099		1922
9945	76	23		B	WP	1	4	1200	B /03		1922
9946	76	24	TERM	SBR	WPB&3,END1	1	7	1204	H /55 T48		1922
9947	76	25		B	WP	1	4	1211	B /03		1922
9948	76	26	CDFUL	MCW	X1,SBR&6	1	7	1215	M 089  88		1923
9949	76	27		SBR	SW&3,100&X2	1	7	1222	H  63 1!0		1923
9950	76	28		C	@040@,X2	1	7	1229	C V41 094		1923
9951	76	29		BE	COMMA	1	5	1236	B  89 S		1923
9952	76	30		C	@167@,X3	1	7	1241	C V57 099		1923
9953	76	31		BE	COMMA	1	5	1248	B  89 S		1923
9954	76	32		SBR	X3,3&X3	1	7	1253	H 099 0?3		1924
9955	76	33		ZS	FLIP	1	4	1260	! V31		1924
9956	76	34		BM	PLUS1,FLIP	1	8	1264	V T37 V31 K		1924
9957	76	25	MCW	MCW	X1,0&X3	1	7	1272	M 089 0?0		1924
9958	76	36		B	MOVE	1	4	1279	B 957		1924
9959	76	37	SKIP	SW	SKPSW	1	4	1283	, V22		1924
9960	76	38		B	COMMA	1	4	1287	B  89		1924
9961	76	39	SKIP2	CW	SKPSW	1	4	1291	) V22		1925
9962	76	40		MCM	0&X1	1	4	1295	P 0 0		1925
9963	76	41		SBR	X1	1	4	1299	H 089		1925
9964	76	42		BW	MOVE,0&X1	1	8	1303	V 957 0 0 1		1925

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
9965	76	43		MCW	X1,153	1	7	1311	M 089 153		1925
9966	76	44		MCW	X1	1	4	1318	M 089		1925
9967	76	45		MCW	@)@	1	4	1322	M V51		1925
9968	76	46		MCW	@153@,X3	1	7	1326	M V54 099		1926
9969	76	47		B	MOVE	1	4	1333	B 957		1926
9970	76	48	PLUS1	SBR	X3,1&X3	1	7	1337	H 099 0?1		1926
9971	76	49		B	MCW	1	4	1344	B S72		1926
9972	76	50	END1	SBR	X1,1697 FORMAT	1	7	1348	H 089 W97		1926
9973	76	51		BCE	END2,PARAM&10,X	1	8	1355	B U26 696 X		1926
9974	76	52		BCE	LIO,PARAM&10,L	1	8	1363	B U04 696 L		1927
9975	76	53		BCE	AFORM,PARAM&10,A	1	8	1371	B U15 696 A		1927
9976	76	54	NEXT1	SBR	CPAR&3,HIFMT	1	7	1379	H 974 V03		1927
9977	76	55		SBR	WPB&3,RESET	1	7	1386	H /55 893		1927
9978	76	56		SBR	TERM&6,END2	1	7	1393	H S10 U26		1927
9979	76	57		B	REST	1	4	1400	B 865		1928
9980	76	58	LIO	SBR	HIFMT,2016	1	7	1404	H V03 !16		1928
9981	76	59		B	NEXT1	1	4	1411	B T79		1928
9982	76	60	AFORM	SBR	HIFMT,4617	1	7	1415	H V03 61X		1928
9983	76	61		B	NEXT1	1	4	1422	B T79		1928
9984	76	62	END2	CS	171	1	4	1426	/ 171		1928
9985	76	63		MCW	@080@,146	1	7	1430	M V60 146		1928
9986	76	64		MCW	GOGOGO	1	4	1437	M 183		1929
9987	76	65		LCA	@/@	1	4	1441	L V61		1929
9988	76	66		A	@1@,CDNO	1	7	1445	A V30 175		1929
9989	76	67		LCA	180,280	1	7	1452	L 180 280		1929
9990	76	68		LCA		1	1	1459	L		1929
9991	76	69		CS		1	1	1460	/		1929
9992	76	70		BSS	WPCS,B	1	5	1461	B U97 B		1929
9993	76	71		P		1	1	1466	4		1930
9994	76	72	CS180	CS	180	1	4	1467	/ 180		1930
9995	76	73		P		1	1	1471	4		1930
9996	76	74		SS	8	1	2	1472	K 8		1930
9997	76	75	GARY	FENDX	C,,,,,SYS2,GAUX ONE	1				MACRO	
9998			GARY	BSS	333,C	1	5	1474	B 333 C	GEN	1930
9999				SBR	TCLEAR,SYS2	1	7	1479	H 710 V73	GEN	1930
				LCA	@GAUX ONE@,110	1	7	1486	L V69 110	GEN	1930
1				B	MONTER	1	4	1493	B 700	GEN	1931
2	76	76	WPCS	WP	CS180	1	4	1497	6 U67		1931
3	76	77	HIFMT	DSA	4280 CHANGE IF ARRAYS DONOT ORIGIN AT 4280	1	3	1503	28		1931
4	76	78	CON40	DCW	@,040040,0400401040@	1	18	1521			1931
5	76	79	SKPSW	DC	#1	1	1	1522			1931
6	76	80		LTORG	*	1			1523		
				DCW	@146@	1	3	1525		LIT	1931
				DCW	@L@	1	1	1526		LIT	1931
				DCW	@001@	1	3	1529		LIT	1931
				DCW	@1@	1	1	1530		LIT	1932
			FLIP 1	DCW	#01	1	1	1531		AREA	1932
			BOX1 1	DCW	#07	1	7	1538		AREA	1932
				DCW	@040@	1	3	1541		LIT	1932
				DCW	@160@	1	3	1544		LIT	1932



SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
				DCW	-990	1	3	1547		LIT	1932
				DCW	@000@	1	3	1550		LIT	1932
				DCW	@)@	1	1	1551		LIT	1933
				DCW	@153@	1	3	1554		LIT	1933
				DCW	@167@	1	3	1557		LIT	1933
				DCW	@080@	1	3	1560		LIT	1933
				DCW	@/@	1	1	1561		LIT	1933
				DCW	@GAUX ONE@	1	8	1569		LIT	1933
				DCW	@I99@	1	3	1572			1933
7	76	81		DCW	@}@	1	1	1573		GMARK	1934
8	76	82	SYS2	DCW	@}@	1	1	1573		GMARK	1934
9	76	83	CDNO	EQU	175	1		0175			
10	76	84		XFR	BEGIN	1			B 838		1935

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
11	76	85		JOB	1401 FORTRAN GEAUX PHASE ONE	1					
12	76	86		FBEGN	GEAUX 1,X1,R,,,,,6	1				MACRO	
13				SFX	6	6				GEN	
14			110	DCW	@GEAUX 1@	6	7	0110		GEN	1938
15			X1	EQU	089	6		0089		GEN	
16			089	DCW	000	6	3	0089		GEN	1939
17			091	DC	00	6	2	0091		GEN	1939
18	76	87		ORG	XBEGIN	6			0838		
19	76	88	START	LCA	BLNK4#4,84	6	7	0838	L   78 084		1940
20	76	89		SW	84	6	4	0845	, 084		1940
21	76	90		SW		6	1	0849	,		1940
22	76	91		SW		6	1	0850	,		1940
23	76	92		MESSG	@END OF COMPILATION@,18,1	6				MACRO	
24				CC	1	6	2	0851	F 1	GEN	1940
25				CS	332	6	4	0853	/ 332	GEN	1940
26				CS		6	1	0857	/	GEN	1940
27				MCW	@END OF COMPILATION@,18&200	6	7	0858	M   96 218	GEN	1941
28				W		6	1	0865	2	GEN	1941
29	76	93		MCW	GOGOGO,X1	6	7	0866	M 183 089		1941
30	76	94		BW	BAD,FAILSW	6	8	0873	V   56 184 1		1941
31	76	95		MESSG	@PRESS START TO GO@,17,J	6				MACRO	
32				CC	J	6	2	0881	F J	GEN	1941
33				CS	332	6	4	0883	/ 332	GEN	1941
34				CS		6	1	0887	/	GEN	1941
35				MCW	@PRESS START TO GO@,17&200	6	7	0888	M /13 217	GEN	1942
36				W		6	1	0895	2	GEN	1942
37	76	96	OUT	SW	SYS2	6	4	0896	, /44		1942
38	76	97		LCA	SYS2,693	6	7	0900	L /44 693		1942
39	76	98		BCE	CDSYS,MONTOR,1	6	8	0907	B 963 769 1		1942
40	76	99		BW	SKPXL,XLINKW	6	8	0915	V 988 185 1		1942
41	77	00		SBR	TPERX&15,RTPXL	6	7	0923	H 962 930		1943
42	77	01	RTPXL	RTW	1,333	6	8	0930	L %U1 333 R		1943
43	77	02		BER	TPERX	6	5	0938	B 947 L		1943
44	77	03		B	OUT33	6	4	0943	B   20		1943
45	77	04	TPERX	BSP	1	6	5	0947	U %U1 B		1943
46	77	05		H	4444,4444	6	7	0952	. 44U 44U		1943
47	77	06		B	SKPXL	6	4	0959	B 988		1944
48	77	07	CDSYS	BW	SKPXC,XLINKW	6	8	0963	V 975 185 1		1944
49	77	08		R	040	6	4	0971	1 040		1944
50	77	09	SKPXC	R		6	1	0975	1		1944
51	77	10		BCE	OUT2,68,B	6	8	0976	B   01 068 B		1944
52	77	11		B	SKPXC	6	4	0984	B 975		1944
53	77	12	SKPXL	RTW	1,SYS2	6	8	0988	L %U1 /44 R		1944
54	77	13		BER	TPERX	6	5	0996	B 947 L		1945
55	77	14	OUT2	BSS	333,C	6	5	1001	B 333 C		1945
56	77	15		LCA	@N@,381	6	7	1006	L /14 381		1945
57	77	16		LCA	@.,564	6	7	1013	L /15 564		1945
58	77	17	OUT33	CW	680	6	4	1020	) 680		1945
59	77	18		SBR	TCLEAR,SYS2	6	7	1024	H 710 /44		1945
60	77	19		SBR	INITAP&6,201	6	7	1031	H 786 201		1946

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
61	77	20		SBR	INITXT&3,201	6	7	1038	H 796 201		1946
62	77	21		SBR	BCLEAR,XBEGIN	6	7	1045	H 833 838		1946
63	77	22		B	MONTER	6	4	1052	B 700		1946
64	77	23	BAD	MESSG	@CORRECT ERRORS AND RECOMPILE@,28,J	6				MACRO	
65			BAD	CC	J	6	2	1056	F J	GEN	1946
66				CS	332	6	4	1058	/ 332	GEN	1946
67				CS		6	1	1062	/	GEN	1946
68				MCW	@CORRECT ERRORS AND RECOMPILE@,28&200	6	7	1063	M /43 228	GEN	1947
69				W		6	1	1070	2	GEN	1947
70	77	24		B	OUT	6	4	1071	B 896		1947
71	77	25		LTORG	*	6			1075		
			BLNK46	DCW	#04	6	4	1078		AREA	1947
				DCW	@END OF COMPILATION@	6	18	1096		LIT	1947
				DCW	@PRESS START TO GO@	6	17	1113		LIT	1948
				DCW	@N@	6	1	1114		LIT	1948
				DCW	@.@	6	1	1115		LIT	1948
				DCW	@CORRECT ERRORS AND RECOMPILE@	6	28	1143		LIT	1949
72	77	26	SYS2	DCW	@}@	6	1	1144		GMARK	1949
73	77	27		XFR	START	6			B 838		1950

SYSTEM GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
74	77	28		JOB	1401 FORTRAN FIXED XLINK ROUTINE	6					
75	77	29		SFX	# AS IN SNAPSHOTS	#					
76	77	30		ORG	333	#			0333		
77	77	31		H	333	#	4	0333	. 333		1953
78	77	32	START	MCW	86,XL2 X2 FOLLOWS B700	#	7	0337	M 086 094		1953
79	77	33		CS	80	#	4	0344	/ 080		1953
80	77	34		BCE	ARRAY,0&X2,\$	#	8	0348	B 585 010 \$		1953
81	77	35	CLEAR	CS	000	#	4	0356	/ 000		1953
82	77	36		SBR	ADR3	#	4	0360	H 359		1953
83	77	37		C	ADR3,@699@	#	7	0364	C 359 645		1953
84	77	38		BU	CLEAR	#	5	0371	B 356 /		1954
85	77	39		SW	ACCHI-5&X3	#	4	0376	, 2G4		1954
86	77	40		MZ	ACCHI&X3,FIELD	#	7	0380	Y 2G9 642		1954
87	77	41		C	FIELD,ACCHI&X3	#	7	0387	C 642 2G9		1954
88	77	42		BE	CARDS	#	5	0394	B 603 S		1954
89	77	43		BM	GETM,ACCHI&X3	#	8	0399	V 620 2G9 K		1954
90	77	44		MZ	ZERO,ACCHI&X3	#	7	0407	Y 637 2G9		1955
91	77	45		C	699,ACCHI&X3	#	7	0414	C 699 2G9		1955
92	77	46		BE	GETM	#	5	0421	B 620 S		1955
93	77	47		SW	22	#	4	0426	, 022		1955
94	77	48		MCW	GM,22	#	7	0430	M 680 022		1955
95	77	49	SERCH	RT	1,1	#	8	0437	M %U1 001 R		1955
96	77	50		BEF	OUT	#	5	0445	B 478 K		1956
97	77	51		C	10,@LIB@	#	7	0450	C 010 648		1956
98	77	52		BU	SERCH	#	5	0457	B 437 /		1956
99	77	53		C	17,ACCHI&X3	#	7	0462	C 017 2G9		1956
100	77	54		BE	T1	#	5	0469	B 498 S		1956
101	77	55		B	SERCH	#	4	0474	B 437		1956
102	77	56	OUT	NOP	CARDS	#	4	0478	N 603		1956
103	77	57		MCW	333,OUT	#	7	0482	M 333 478		1957
104	77	58		RWD	1	#	5	0489	U %U1 R		1957
105	77	59		B	SERCH	#	4	0494	B 437		1957
106	77	60	T1	LCA	ZEROS,101	#	7	0498	L 641 101		1957
107	77	61		LCA	ZEROS	#	4	0505	L 641		1957
108	77	62		LCA	ZEROS	#	4	0509	L 641		1957
109	77	63		RTW	1,333	#	8	0513	L %U1 333 R		1957
110	77	64		BER	ERR	#	5	0521	B 557 L		1958
111	77	65		MCW	ZERO,CTRR	#	7	0526	M 637 641		1958
112	77	66		SBR	TPERM-1,T2	#	7	0533	H 580 540		1958
113	77	67	T2	RTW	1,700	#	8	0540	L %U1 700 R		1958
114	77	68		BER	ERR	#	5	0548	B 557 L		1958
115	77	69	TBOOT	B	000 FROM LIBED	#	4	0553	B 000		1958
116	77	70	ERR	A	ONE,CTRR	#	7	0557	A 679 641		1959
117	77	71		BCE	TPERM,CTRR,9	#	8	0564	B 581 641 9		1959
118	77	72		BSP	1	#	5	0572	U %U1 B		1959
119	77	73		B	T1	#	4	0577	B 498		1959
120	77	74	TPERM	H	TPERM	#	4	0581	. 581		1959
121	77	75	ARRAY	MCW	3&X2,ADR3	#	7	0585	M 013 359		1959
122	77	76		MZ	ZERO,ADR3-1	#	7	0592	Y 637 358		1960
123	77	77		B	CLEAR	#	4	0599	B 356		1960

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
124	77	78	CARDS	SW	1	#	4	0603	, 001		1960
125	77	79		R		#	1	0607	1		1960
126	77	80		BCE	1,1,,	#	8	0608	B 001 001 ,		1960
127	77	81		B	CARDS	#	4	0616	B 603		1960
128	77	82	GETM	RWD	1	#	5	0620	U %U1 R		1960
129	77	83		RTW	1,1	#	8	0625	L %U1 001 R		1961
130	77	84		B	1 EXECUTE MONITOR PROGRAM	#	4	0633	B 001		1961
131	77	85	ADR3	EQU	CLEAR&3	#		0359			
132	77	86	FIELD	DCW	@000000@	#	6	0642			1961
133	77	87	ZEROS	EQU	FIELD-1	#		0641			
134	77	88	ZERO	EQU	ZEROS-4	#		0637			
135	77	89	CTRR	EQU	ZEROS	#		0641			
136	77	90	ACCHI	EQU	279	#		0279			
137	77	91		LTORG	*	#			0643		
				DCW	@699@	#	3	0645		LIT	1961
				DCW	@LIB@	#	3	0648		LIT	1961
138	77	92		ORG	679	#			0679		
139	77	93	ONE	DCW	@1@	#	1	0679			1962
140	77	94	GM	DCW	@}@	#	1	0680		GMARK	1962
141	77	95		XFR	OUT336	#			B  20		1963

GROUP MARK IN 680

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
142	77	96		JOB	1401 FORTRAN GEAUX PHASE TWO	#					
143	77	97		SFX	6	6					
144	77	98	110	DCW	@GEAUX TWO@	6	9	0110			1966
145	77	99		ORG	201	6			0201		
146	78	00	YIPEE	BCE	MONTOR,MONTOR,1	6	8	0201	B 769	769 1	1967
147	78	01	RTP	RTW	1,MONTER	6	8	0209	L %U1	700 R	1967
148	78	02		BER	TPERR	6	5	0217	B 284	L	1967
149	78	03		RWD	1	6	5	0222	U %U1	R	1967
150	78	04	INIT	MCW	SUBSCR,ARSUB	6	7	0227	M 191	S09	1967
151	78	05		CW	1696	6	4	0234	) W96		1967
152	78	06		MCW	GOTOFN,FUNC	6	7	0238	M 188	T30	1968
153	78	07		MCW	PARAM&4, FIXSZ	6	7	0245	M 690	V36	1968
154	78	08		MCW	PARAM&6, FLTSZ	6	7	0252	M 692	837	1968
155	78	09		CC	1	6	2	0259	F 1		1968
156	78	10		BW	HALT,FAILSW	6	8	0261	V 280	184 1	1968
157	78	11		MCW	GOGOGO,X1	6	7	0269	M 183	089	1968
158	78	12		H	0&X1	6	4	0276	. 0 0		1969
159	78	13	HALT	H	*-3	6	4	0280	. 280		1969
160	78	14	TPERR	BSP	1	6	5	0284	U %U1	B	1969
161	78	15		H	3333,3333	6	7	0289	. C33	C33	1969
162	78	16		B	RTP	6	4	0296	B 209		1969
163	78	17		DCW	0	6	1	0300			1969
164	78	18	FUNC	EQU	1330	6		1330			
165	78	19	FIXSZ	EQU	1536	6		1536			
166	78	20	FLTSZ	EQU	837	6		0837			
167	78	21	ARSUB	EQU	1209	6		1209			
168	78	22		LTORG	*	6			0301		
169	78	23		DCW	@}@	6	1	0301			
170	78	24		XFR	YIPEE	6			B 201		
171	78	25	*								
172	78	26	*		PHASE 63 GOES HERE						
173	78	27	*								
174	78	28		END	INIT	6			/ 227	080	

SYSTEM GROUP MARK

GMARK 1969

1970

THE DEED IS DONE

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J005	1902	)0J013	1180	)0J050	1412	)0J054	1815	)0J065	913	)0J070	910	)0J091	895
)0J093	871	)0J094	967	)0J099	1817	)0J114	1094	)0J131	865	)0J163	961	)0K005	1921
)0K013	1199	)0K028	1207	)0K029	1395	)0K039	1539	)0K043	1608	)0K050	1431	)0K053	1702
)0K054	1834	)0K070	929	)0K073	1518	)0K076	1855	)0K081	1019	)0K093	890	)0K094	986
)0K099	1836	)0K212	968	)0L005	2842	)0L013	1375	)0L028	1719	)0L029	1750	)0L039	1928
)0L043	2004	)0L050	2166	)0L053	2252	)0L054	2256	)0L065	933	)0L070	1052	)0L073	2395
)0L076	2430	)0L081	1122	)0L091	915	)0L093	2050	)0L094	2061	)0L099	2202	)0L114	1114
)0L131	885	)0L163	981	)0L212	1609	)0M005	2840	)0M013	1373	)0M028	1257	)0M029	1429
)0M039	1573	)0M043	1642	)0M050	2164	)0M053	1736	)0M054	2254	)0M070	1050	)0M073	1552
)0M076	1889	)0M081	1053	)0M093	2048	)0M094	2059	)0M099	2200	)0M212	1002	)0P005	1940
)0P013	1218	)0P050	1450	)0P054	1853	)0P070	948	)0P093	909	)0P094	1005	)0P099	1855
A K	2341	A1 G	1126	A2 G	1142	A3 G	1022	ABIT A	1700	ABIT2A	1973	ABOTMX	844
ABSVAL	891	ABSVL<	1872	ACCHI#	279	ACCUM%	1648	ACCUMG	873	ACCUMH	2136	ACCUMI	2762
ACCUMN	1322	ACCUMO	1380	ACCUMP	1357	ACCUMS	2560	ACHCKZ	2276	ACLEAR	707	ACTL	9
ADD I	2048	ADD1 7	2917	ADD1 L	1167	ADD1 Z	1507	ADD3 7	948	ADDINZ	862	ADDR1Z	1527
ADDS R	945	ADDS2R	952	ADDU V	1117	ADJST7	1360	ADJSTH	2084	ADNL 7	1440	ADONEX	142
ADONEZ	1930	ADR 9	1714	ADR3 #	359	ADRESZ	148	ADRSSJ	2394	ADRSSX	2145	ADTBLL	145
AFORM1	1415	AFORM8	950	AFORMH	2060	AGAINC	1022	AGAINN	1544	AGET2R	445	ALCONI	2335
ALL3 Y	1736	ALL9 9	1616	ALL9 C	1802	ALL9 D	1090	ALL9 Q	1507	ALL919	1619	ALL91Q	1510
ALL92C	1805	ALPH N	1051	ALPHAM	1563	ALTERH	1354	ALTERX	1157	ANYMO.	982	ANYMOG	1309
AOK 3	1170	AOK 4	1020	AOK1 C	1127	AOK2 4	1102	AOK3 4	1317	AOP 7	3088	AREA1Z	880
AREA2Z	2442	ARIT T	1664	ARITH0	1153	ARITH1	1075	ARITH2	1119	ARITHE	1156	ARRAY#	585
ARRAYI	1358	ARSUB6	1209	ARTYP<	1085	ASIDEZ	844	ASSGNS	1060	ATANFN	894	ATSGNA	1689
AUNIQB	1217	AVOID%	1431	B A	2511	BACK2M	1299	BACK39	950	BACK5C	1134	BAD 5	1015
BAD 6	1056	BADSTM	1801	BADSWM	1895	BAKUPK	2232	BASE .	1308	BASE J	840	BASE N	840
BASE O	840	BASE P	840	BASE Y	2793	BC1 /	1221	BC2 /	1267	BCE1 7	1317	BCE3 7	2655
BCE5 Y	992	BCEQ T	2023	BCLEAR	833	BEGIN#	934	BEGIN/	884	BEGIN1	838	BEGIN9	838
BEGINC	1010	BEGINE	838	BEGINJ	857	BEGINX	867	BEGINZ	1175	BGIN T	1510	BGMSG0	2631
BIG 7	1302	BIG N	1436	BIGMS8	1300	BLANK.	1419	BLANK3	1617	BLANK5	1797	BLANK9	1711
BLANKD	1099	BLANKE	1503	BLANKF	1701	BLANKH	2096	BLANKI	2787	BLANKK	2504	BLANKP	1404
BLK10<	2475	BLK20Y	2749	BLK4 7	3045	BLK4 Y	2775	BLK6 Y	2872	BLK8 Y	2866	BLKOP7	901
BLNK 9	1673	BLNK Q	1537	BLNK1<	2595	BLNK2I	2788	BLNK33	1619	BLNK3A	2971	BLNK3C	1825
BLNK3F	1792	BLNK46	1078	BLNK5G	1887	BLNK6I	2792	BLNKS0	2814	BLWUPS	1274	BMOD Y	2776
BMP4 Y	1039	BMP2R	475	BMPUMS	1016	BMPUMY	1135	BMPX17	2032	BMPX1K	1165	BOP 7	3063
BOTH T	1161	BOTM %	1645	BOTM .	1064	BOTM I	1445	BOTM J	2193	BOTM K	2089	BOTM M	958
BOTM N	1367	BOTM O	1611	BOTM2I	1453	BOTM2K	2100	BOTOMZ	1761	BOX 4	1472	BOX <	2502
BOX H	2141	BOX I	2655	BOX J	2301	BOX K	2347	BOX M	1891	BOX O	2107	BOX Q	1525
BOX1 1	1538	BOX2 <	2518	BOX2 I	2664	BOX2 Q	94	BPDWNG	1329	BRANCH	1631	BRELCR	934
BRNCH.	1350	BSAUCE	148	BSFLTY	2425	BSP E	1434	BSTARG	1446	BSUB Y	2578	BTESTD	857
BTM R	1638	BTMCGN	1428	BTMNLN	1313	BUMP D	926	BUMP H	1209	BUMP J	1186	BUMP K	2547
BUMP N	1036	BUMP O	1479	BUMP X	1590	BUMP1K	1055	BUMPRK	1912	BX2B2T	1398	BYP E	882
BYP F	1533	BYP4 Z	1234	CANU 7	1496	CARDS#	603	CASE2Z	1826	CCLEAR	830	CDDMP/	997
CDFUL1	1215	CDINT<	2001	CDNO 1	175	CDSYS6	963	CERR C	1688	CGBTML	1282	CGOTOE	1311
CGOTON	1367	CHAINJ	1201	CHAINL	1001	CHAINN	1533	CHAINO	1494	CHAMPG	857	CHAR A	2388
CHEAP4	1412	CHKN T	1977	CHKNDT	1044	CHNG U	994	CHNGEZ	1688	CHUMPG	1653	CINCHG	1672
CK A	742	CK4B 2	1131	CKBITT	872	CKBOPQ	1061	CKCMTB	914	CKCOM4	997	CKCOMX	1248
CKDL27	924	CKDONE	1045	CKEX R	1036	CKEXTL	975	CKFIX7	1807	CKFIXJ	1940	CKFIXY	1340
CKFMTD	904	CKFMTT	1315	CKFUN<	1641	CKFUNB	1349	CKFX Q	1023	CKGM 5	969	CKGM <	1268
CKGM F	1307	CKIF K	2183	CKLFPX	1240	CKLHCA	1973	CKLSTX	1798	CKND 7	1527	CKNG <	1598
CKNG X	1092	CKNODF	1545	CKNUMX	1008	CKOP 0	1539	CKPRNG	1146	CKREFJ	857	CKRT 7	1070
CKSIMG	1274	CKSWFY	1316	CKSWXY	1328	CKSYN%	1145	CKTALK	1498	CKTYPX	1822	CKUSR0	2003
CKUSRR	508	CKWMKX	1260	CKXF Y	936	CKXP <	1431	CKXPNI	2299	CKZN R	543	CKZRO7	1919
CKZROT	1827	CLEAR#	356	CLEARB	1309	CLEARD	965	CLEERC	1422	CLEERQ	1233	CLOSE<	1339
CLR 9	923	CLR A	1103	CLR T	992	CLR1 0	878	CLR1 N	958	CLR1 O	860	CLR1 P	878
CLR2 0	929	CLR2 N	1011	CLR2 O	978	CLR2 P	1009	CLRFCT	2599	CLR1 T	1733	CLSCK<	1392
CLZOK<	1378	CMBCKZ	965	CMNT A	2358	CMP2 7	2863	CMP3 7	1019	CMP4 Z	1248	CMP5 Y	1046
CMPAB#	520	CMPAB7	520	CMPAB8	1113	CMPADS	1089	CMPARA	1409	CMPARD	985	CMPSWG	1177

CNLFTK	1720	CNLS50	2066	CNLST5	1609	CNT C	1599	CNTNUZ	1270	CNTR 0	2828	CNTRL0	1381
CNTRLK	2381	CNTU C	1157	CNTU E	1346	CNTU2Z	1674	CNVRTZ	896	CODE &	925	CODE *	962
CODE 0	2761	CODE 3	1602	CODE 4	1445	CODE 5	1188	CODE 9	1649	CODE <	2447	CODE B	2424
CODE I	2646	CODE J	2286	CODE K	2353	CODE L	1286	CODE N	1062	CODE O	2096	CODE T	879
CODE U	1230	CODE W	1198	CODE X	841	CODE Y	2686	COMFN1	906	COMFN<	1856	COMMA1	1089
COMMAM	1257	COMMAX	1088	COMP F	1084	COMP G	1006	COMP N	1235	COMP O	1292	COMP P	1267
COMP X	1019	COMPAT	838	COMPLT	1115	COMRTT	1129	COMUT7	1214	CON401	1521	CONLST	194
CONSTB	2440	CONSTI	1851	CONSTU	1204	CONSTZ	1201	COOL M	1703	COPY I	1840	COPY J	1031
COPY O	1343	COSIN<	1864	COUNT%	1694	COUNT.	1408	COUNTA	2503	COUNTH	2049	COUNTI	2708
COUNTK	2423	COUNTL	1292	COUNTN	1677	COUNTX	2058	COUNTZ	841	CPAR 1	971	CPAR W	1021
CPL #	568	CPL 7	568	CPL 8	1188	CR K	1459	CS1 /	1140	CS1801	1467	CS1A /	1319
CS2 /	1210	CS2A /	1390	CS2X /	1169	CS2XA/	1348	CTNMVZ	1615	CTOALZ	1448	CTR #	669
CTR 7	669	CTR 8	1419	CTRR #	641	CTU *	884	CTU 3	1194	CTU1 R	608	CTU1 U	944
CTU1 Y	2321	CTU3 G	1816	CTU3 H	1062	CTU4 G	1661	CTUCDA	2824	CTUL F	1465	CURDL7	2972
CVT3 7	3091	CVTDL7	2758	CVTXT7	2833	CW 7	2720	CW X	1790	CW1 Y	1101	CW2 7	2928
CW5 7	2614	CWPRT7	908	CWX1 Z	1355	CX1 R	482	CX1CNZ	1518	CX2 7	2001	CZONEZ	1014
D2 7	997	DATA E	1478	DBLOP<	2161	DBLSWT	1439	DECR 7	1927	DELT17	974	DELT27	1166
DELTAI	1682	DIFF Z	859	DIFNT%	1090	DIMENF	979	DIMSWF	1700	DIV <	1446	DIV Y	1463
DIV2 <	1470	DIVCK<	1484	DL2 7	3032	DLOOPV	970	DLVALS	2545	DMSN E	1443	DO B	1521
DO E	1338	DO M	1276	DOADR1	924	DOADR2	921	DOADR3	918	DOBC1/	1074	DOCOD7	2217
DOCOD<	943	DOEND%	1899	DOINIT	915	DOIT 3	896	DOIT 4	893	DOIT 5	884	DOLLRX	1737
DOLR V	915	DOLR1J	1995	DOLR2J	2013	DOLST9	1116	DONE C	1366	DONE E	1057	DONE G	1683
DONE J	1747	DOSBSC	909	DOSPC9	1532	DOWM R	623	DRESSG	852	DRESSI	2636	DROP4W	1098
DSA R	1560	DSW F	1710	DUM3 A	2560	DUM5 A	2565	DUMMYA	1166	DUMMYB	979	DUN %	1526
DUN .	1313	DUN 0	2519	DUN J	2147	DUN L	1052	DUN S	1221	DUN X	1168	DUN Z	1437
DUN2 Q	1471	DUN2 X	1137	EASY B	1422	EINPTT	1870	ELSE Y	2485	EMASQX	1963	ENCODE	1173
END B	1337	END C	2900	END R	1056	END Z	2499	END1 1	1348	END2 1	1426	END2 T	1021
ENDCDE	1182	ENDPHZ	1260	ENDSS2	944	ENDSWA	2828	ENDXL2	1265	EOF E	1419	EOFX Q	1475
EOJ 0	2458	EOJ C	1647	EOJ D	949	EOJ H	2008	EOJ Q	1295	EOPHSD	1065	EOSTM<	1310
EOSTMT	1612	EOSTR7	2158	EOSTRY	1421	EOTWOC	2000	EQBX1G	1465	EQSCN<	1107	EQUALI	2254
EQUIVE	1454	EQUIVG	1165	ERCTRG	1994	ERR #	557	ERR 9	1487	ERR G	1505	ERR M	1830
ERR1 %	1397	ERR1 .	1165	ERR1 0	2413	ERR2 %	1442	ERR2 0	2375	ERR3 0	2337	ERR4 0	2299
ERR460	1852	ERR5 0	2261	ERR6 0	2223	ERRMSZ	1092	ERROR%	1480	ERROR.	1223	ERRORR	1092
ERRORT	206	ERRORX	1922	ERRSWG	2144	ERRSWI	2504	ERRTPA	797	ERRWTT	1269	ERSIGT	1258
ERVBLI	2600	EXCHNN	1641	EXCMAX	1100	EXDRPW	1120	EXGTL0	1343	EXGTP0	1599	EXIT %	1621
EXIT 2	1295	EXIT A	1096	EXIT C	1486	EXIT I	2134	EXIT N	1265	EXIT O	1322	EXIT P	1297
EXIT Q	1182	EXIT V	1210	EXIT Z	1549	EXIT1#	1000	EXIT1M	1751	EXIT2M	1559	EXIT3R	983
EXITAQ	1157	EXMVD0	1287	EXMVPN	933	EXP3X	969	EXPMIX	1693	EXPN Y	1808	EXPNDZ	969
EXRDMN	1044	EXRUA.	1219	EXRUAX	1893	EXRUKX	1901	EXSLDN	960	EXSLDW	1094	EXSLDX	965
EXSNDW	1188	FAIL F	1646	FAILSW	184	FBAD T	2275	FBOX T	1460	FEED I	1693	FEND22	1306
FEND32	1405	FENDX/	956	FENDX2	1185	FENDX7	2937	FENDX<	920	FENDXS	1251	FENDXY	1478
FEWSWI	2598	FIELD#	642	FIGHTG	1269	FIN1SZ	1641	FIND G	980	FIND I	937	FIND M	1137
FIND O	1259	FIND W	889	FIND1J	1723	FIND2J	947	FIND2M	1200	FINI T	1216	FINIST	2042
FINISZ	2404	FIRST7	1663	FIRSTB	2404	FIRSTG	86	FIX 7	2573	FIX1 H	1332	FIXED.	1193
FIXEDA	2831	FIXEDB	2405	FIXEDG	1216	FIXEDH	1365	FIXEDJ	2031	FIXEDK	1931	FIXEDO	1693
FIXFUN	885	FIXITZ	1964	FIXSZ6	1536	FIXT 7	2724	FIXWDQ	930	FIXWDR	930	FIXXPY	2077
FLIP 1	1531	FLIP 4	983	FLIP J	1003	FLIP K	1863	FLIP T	1345	FLOATK	1506	FLT Y	2032
FLTFUN	882	FLTSWG	1828	FLTSZ6	837	FLTWDQ	933	FLTWDR	933	FMAT I	2470	FMTNOT	2417
FNCTRJ	2300	FND V	931	FNDLZI	1571	FNISH0	1761	FNISHW	1124	FNLIZX	1697	FOKAYT	2234
FORCE0	1659	FORK N	1409	FORMAT	2527	FOUNDG	1181	FOUNDJ	997	FOUNDQ	1309	FOUNDW	939
FQUITP	1197	FRMATE	1353	FROMXZ	856	FRONTB	2415	FSCAN<	1775	FST1 7	1695	FSTMDY	2719
FSTNUA	1260	FSUB Y	2623	FTBL1<	2442	FTMSGY	1998	FULL J	2211	FULL N	1066	FULL O	1712
FUN 0	1981	FUNBX<	2485	FUNC 6	1330	FUNCSW	195	FUNSTJ	1649	FUNY 0	2117	FXFLTQ	1398
FXMOD0	2175	FXPRMD	1016	FXSW G	1827	FXT Q	1482	GARY 1	1474	GARY Q	1513	GARY V	1249
GARY Z	1520	GDLXT7	2870	GENERM	1714	GET F	1066	GET G	988	GET I	2071	GET R	1149
GET2 G	1086	GET2 R	441	GETDL7	2837	GETLFO	1291	GETM #	620	GETSTT	880	GETUMS	935
GETWM7	2890	GETXT2	1098	GETXTR	1184	GM #	680	GM 0	2573	GM A	2529	GM C	1806
GM D	1091	GM F	1691	GM G	839	GM H	2085	GM I	2555	GM J	2493	GM K	2349
GM M	1883	GM N	1725	GM X	1011	GM1 %	1598	GM1 .	1295	GM1 7	2240	GM1 9	1627
GM1 <	2160	GM1 T	1503	GM2 %	1626	GM2 .	1309	GM2 C	1219	GM2 O	1333	GM3 %	1631
GM4 %	1622	GM50AZ	1688	GM50CZ	1624	GM53S#	1696	GMK1 R	680	GMWM R	1696	GMWM Z	2468



GNSTMZ	151	GNTBLZ	1346	GNTMP0	1573	GO X	852	GOBAK%	1630	GOBAKJ	1298	GOBAKS	1199
GOGOGO	183	GOTEQ<	1131	GOTEQY	1232	GOTFN<	1883	GOTO E	1306	GOTOFN	188	GOTOP<	1191
GOTSBY	2542	GOTSQY	1009	GOTTA/	896	GOTUM0	1562	GOTUMS	959	GOTWM7	2906	GRAB10	1180
GRAB1M	1473	GRIEFY	1154	GSTXTT	924	GT1 G	1386	GTADR9	1473	GTNUM0	1516	GTSUBY	2608
GUTS K	1067	HALT 6	280	HEAD #	651	HEAD 7	651	HEAD 8	1309	HEADRN	1507	HERE 9	1569
HERE T	1787	HERE Z	1088	HEX1 7	2965	HEX1 <	2543	HEX1 G	1999	HEX1 I	2711	HEX1 K	2439
HEX1 L	1279	HEX1 M	1894	HEX1 N	1054	HEX1 O	2091	HEX1 S	2537	HEX1 W	1194	HEX1 X	2056
HEX1 Z	2452	HEX1XX	947	HEX2 0	2758	HEX2 7	3024	HEX2 <	2537	HEX2 F	1709	HEX2 G	1927
HEX2 J	2327	HEX2 O	2132	HEX2 S	2531	HEX2 X	2053	HEX2XN	1360	HEX3 %	1637	HEX3 7	3040
HEX3 <	2540	HEX3 G	876	HEX3 K	2366	HEX3 L	1276	HEX3 M	1984	HEX3 N	1684	HEX3 R	1635
HEX3 T	875	HEX3 X	2085	HEX3 Y	2693	HEX31Y	2771	HIFMT1	1503	HLD18Y	2718	HLD2 5	1200
HLD20Y	2484	HLD31#	416	HLD317	416	HLD32#	409	HLD327	409	HLD357	3008	HLD5AC	1363
HLDOF7	2966	HLDXT#	402	HLDXT7	402	HLDZNR	1582	HLERRT	1409	HLFT 7	1054	HNOT T	1306
HOLD 5	1198	HOLD C	1922	HOLD F	1703	HOLD Z	891	HOLD1E	1499	HOLD1H	2154	HOLD2Z	2140
HOLD3E	1502	HOLD3G	2003	HOLD3X	2077	HOLD4E	1498	HOLD5C	1357	HOLD5D	1096	HOLD5I	2811
HOLD5J	2382	HOLD5X	2068	HOLD6C	2005	HOLD8J	2390	HOLDXE	1514	HOLLRA	1751	HOPE 7	1476
HOPE27	1555	HSW A	1394	HSW2 A	1402	HUH Y	2218	HUH2 Y	2236	HXCMNR	1573	HYTEST	2563
I %	1618	I .	1302	ID .	1362	IEXITT	1808	IF 0	1221	IF E	1313	IFEXPM	1362
IFMNSY	2512	IFPLSY	2496	IFSL E	1467	IFSSWE	1327	IFTYPY	1522	IFZROY	2504	IMVUPZ	1052
INC #	632	INC 7	632	INC 8	1242	INCTOA	1375	INDIR<	982	INILZ1	2506	INILZ2	2509
INISHG	1724	INISHS	838	INIT 6	227	INIT Q	934	INIT V	838	INIT Z	1186	INITAP	780
INITL%	838	INITL.	838	INITL0	838	INITLF	839	INITLG	1034	INITLH	891	INITLI	838
INITLK	838	INITLL	838	INITLM	838	INITLW	838	INITXT	793	INNERX	1421	INOUTM	1130
INPUTA	2373	INPUTJ	1763	INTNOZ	865	INTSTZ	183	IOBGNT	2141	IOCW U	1226	IOSW T	1438
IOTYP9	1012	IOTYPT	1402	IOWK T	2297	ISB R	1288	ISCTU&	884	ISEQUG	1158	ISFMTD	938
ISFSWJ	2310	ISFYN<	1683	ISGM J	945	ISIN G	1673	ISREDG	1584	ISTRIA	1851	ISTWO7	2683
ISXP <	1513	JUMP A	1425	K5TOK3	929	KARITT	2399	KEEP2J	1079	KEEPX<	1989	KEOJ T	2403
KERR I	2561	KFSM A	2423	KH T	2376	KILL 0	2447	KILL 4	1001	KILL <	2450	KILL K	2369
KILL M	981	KLEAR%	1548	KLEFTT	2387	KLINET	2395	KLOBR%	1259	KLOBR.	1072	KLOBR0	1179
KLOBR3	1252	KLOBR4	1197	KLOBR5	1120	KLOBR9	1349	KLOBRG	1393	KLOBRI	1468	KLOBRK	2111
KLOBRR	1089	KLOBRT	838	KLOBRU	1117	KP T	2407	KPROCA	2548	KRITET	2391	KVSTMI	2582
KWM 7	1379	KWM2 7	2139	KWMXT7	1387	KX T	2383	L2PRMA	1089	LABELM	1003	LARRYA	2557
LAST /	194	LAST 0	2752	LAST 1	194	LAST <	2482	LAST G	1447	LAST R	1592	LAST Z	850
LD52CR	938	LDCOMI	1783	LDFLTO	1165	LDFMT2	1535	LDOLRI	1970	LDRNDA	3000	LDSYMZ	1780
LDWM Z	1382	LDWRDZ	1526	LDZERK	1530	LEADRH	1343	LEFT 7	3063	LENNYB	1059	LFPART	1498
LFPARX	1467	LFTRTK	1962	LGM 9	1330	LGSW H	2095	LGSW J	2248	LGSW S	2495	LIGHT4	1254
LIGHTB	1458	LIMIOH	2068	LIMITI	1171	LIMITJ	1038	LIMITO	1350	LIMITQ	1516	LINCT#	658
LINCT7	658	LINCT8	1321	LINK G	1477	LINK H	2139	LIO 1	1404	LIO 8	925	LIST 9	1641
LIST C	1799	LIST I	2168	LIST X	935	LIST Z	1334	LITCS/	1045	LK4CMT	1839	LOAD M	1174
LOAD R	572	LOAD Y	1910	LOAD Z	1430	LOAD1I	2280	LOAD27	1131	LOAD2I	2265	LOADGM	1622
LOC N	1273	LOC O	1330	LOC P	1305	LOD A	754	LOD E	991	LOD2 I	1767	LODX O	1188
LOGFUN	900	LOGSWR	1564	LOOK I	1216	LOOP #	497	LOOP %	1004	LOOP .	905	LOOP 0	1303
LOOP 7	497	LOOP 8	1090	LOOP G	929	LOOP I	1255	LOOP M	1496	LOOP N	1473	LOOP Q	1444
LOOP X	1752	LOOP Z	2017	LOOP1<	1135	LOOP1C	1329	LOOP1D	849	LOOP2<	1154	LOOP2R	412
LOOP3<	1143	LOOP3H	1010	LOOPAH	1647	LOOPYX	1389	LOPP Z	2044	LOWERG	1416	LOWK 3	1500
LOZNG1	1175	LOZSCF	1441	LSADDY	1703	LSTIOT	1457	LWPB 1	1171	M A	2537	M1 %	1609
M2 %	1612	M2PRTA	1233	M3 %	1615	M3IS1%	1386	M3IS1X	1619	MACFLS	163	MAD Z	1315
MAIN <	998	MAIN G	1359	MAIN X	1020	MANXBZ	1416	MARK A	2534	MARK K	1486	MARTYB	1318
MASK %	1634	MASK .	1312	MASK 2	1463	MASK14	1441	MASK15	1184	MASK19	1626	MASK24	1449
MASK34	1457	MASK44	1461	MATRX0	2643	MATRXS	1306	MAX .	1366	MAX J	844	MAX N	844
MAX O	844	MAX P	844	MAXDL7	3021	MAYBE7	1391	MAYBEK	1091	MAYFNB	1369	MCFL50	2087
MCM2 I	1263	MCW 1	1272	MCW18/	859	MCWX2R	1317	MDIFY%	1120	MDIFYI	960	MESBX<	2642
MESCM<	2072	MESSG/	935	MESSG2	1506	MESUR7	1410	MESUR<	2053	MESXT<	2079	MIDSW7	3018
MINUSY	2508	MIXUPJ	1103	MKFIXY	1364	MKFLTY	1294	MKFMTT	1391	MKND T	1835	MKPLSY	1642
MLPLYZ	1295	MN F	1695	MNTERB	1495	MOD J	2314	MOD N	1058	MOD O	2120	MODCHY	1085
MODSWY	2690	MONTER	700	MONTOR	769	MOR T	1062	MOV <	1926	MOVE 1	957	MOVE A	1174
MOVE C	1293	MOVE H	2033	MPLR H	1133	MRKRSI	2501	MSERRA	1077	MSG G	1951	MSG1 3	1315
MSG2 3	1333	MTPX1R	1508	MULT Z	2229	MULTYF	1356	MULTYN	1446	MUVE C	1453	MV2GMT	2248
MV2N T	1904	MV2XTT	1994	MVAD R	468	MVADRT	2340	MVAGNZ	2064	MVBALY	1857	MVD Z	1406
MVDIGT	1924	MVDWN0	1257	MVDWNT	2069	MVDWNY	894	MVDWNZ	2101	MVHED#	459	MVHED7	459
MVHED8	1052	MVIPTA	1211	MVLS Y	1662	MVMSKU	1221	MVNIN2	1078	MVNINR	1164	MVNSS2	924

MVNXL2	1245	MVRPTT	1672	MVSW U	1245	MVUP 0	953	MVUP N	853	MVUP2T	1086	MXTMPS	2566
MYB2 A	1817	N A	2528	NAME F	1019	NAME G	969	NBRSW2	1586	NCTR T	2426	NDFNDB	1385
NDOLRV	1003	NDOLRX	1768	NDRITH	3153	NDRPLT	2219	NDTABL	140	NEG 0	1948	NEG2 J	1644
NEG3 7	1269	NEGAT7	1239	NEGAT<	1626	NEGTFN	888	NEST G	1209	NEW A	1546	NEW J	1302
NEW N	1606	NEW O	1626	NEW X	989	NEWCDG	1435	NEXT 0	2766	NEXT <	2465	NEXT F	1344
NEXT N	1065	NEXT Y	974	NEXT Z	1183	NEXT11	1379	NEXT1X	963	NINE A	773	NISH 0	1528
NIX H	1598	NMBR B	2400	NOAD 3	1069	NOAPX%	1216	NOARIY	1499	NOBR Y	1748	NOCOLH	1147
NOCVTY	1382	NODICR	1335	NODUNH	1972	NOFMT9	1439	NOFUN<	1818	NOGUD8	1158	NOINTU	1106
NOIO 8	900	NOIO H	2076	NOLSTX	918	NOMO .	1053	NOMO 0	2745	NOMO <	2453	NOMO G	1247
NOMO I	2243	NOMO N	852	NOMO O	688	NOMO P	1342	NOMO S	2534	NOMOI1	2235	NONUMN	1569
NONUMU	1159	NOP C	1150	NOP3 R	1070	NOP4 R	433	NOPADK	2345	NOPR J	983	NOPRMA	2324
NOPSWR	536	NOPTM7	1887	NOPUN2	1166	NORAYH	1984	NORM M	1590	NORMLI	2029	NORMLK	1379
NORMLN	1274	NORT 7	1101	NOSUBT	1772	NOSWTT	2361	NOTHRN	1243	NOTING	1800	NOTINI	1381
NOTYTN	1294	NOWOPY	1254	NOXTR4	1239	NOZO M	1393	NUERR3	1131	NUFRMZ	1890	NULIN#	433
NULIN8	1025	NULINE	433	NUM 0	2820	NUM N	1316	NUM O	1374	NUM P	1351	NUMBER	2533
NUPOSZ	2302	NUSTM7	871	NUSTM<	883	NUSTMC	1022	NUSTME	852	NUSTMY	866	NUTYP3	842
NUTYPC	1063	NXBTM0	2755	NXBTM5	1604	NXBTMJ	83	NXBTMK	83	NXBTMM	83	NXBTMN	83
NXBTMO	83	NXBTMP	83	NXBTMQ	83	NXBTMR	83	NXBTMT	83	NXBTMX	83	NXBTMZ	83
NXGUYS	1210	NXGUYX	1977	NXTOPH	2052	NXTOPJ	86	NXTOPQ	86	NXTOPS	86	OBLIST	912
ODDBLK	1822	ODDSWK	2544	OFF 4	1433	OK %	1339	OK .	1122	OK 5	1068	OK F	1112
OKAY 0	2099	OKAY23	1042	OLDCDG	1385	ON 4	1436	ONCE 2	1155	ONE #	679	ONE A	2510
ONE B	2401	ONEADR	142	ONLY #	621	ONLY 7	621	OOPS1G	1828	OOPS2G	1972	OP 7	3064
OPMD Y	2700	OPNCK<	1663	OPS 0	2642	OPTM 7	1823	ORGVBI	2814	OTHER9	1421	OTHR29	1428
OUT #	478	OUT %	1533	OUT &	861	OUT *	861	OUT .	1320	OUT 0	2547	OUT 3	873
OUT 4	870	OUT 5	861	OUT 6	896	OUT A	2520	OUT F	1588	OUT G	1735	OUT H	1390
OUT I	2138	OUT J	2057	OUT K	2153	OUT L	1237	OUT M	1852	OUT N	1100	OUT O	1776
OUT R	1359	OUT U	870	OUT W	1139	OUT X	1988	OUT1 G	1685	OUT1 N	1484	OUT2 6	1001
OUT2 9	886	OUT2 R	1441	OUT3 9	981	OUT336	1020	OUTERX	1440	OUTERZ	1484	OUTPT7	1733
OVER M	1118	OVFLWJ	1973	OVFLWN	1645	OVFLWO	1671	PACK C	1295	PACK H	985	PACK J	1385
PACK2J	1425	PAKSWC	1807	PARAMA	686	PARAMH	686	PAREN0	1618	PARERT	1569	PAROKT	1584
PARSWT	2419	PART2Z	1858	PASS 0	1244	PASS J	2163	PASS K	2195	PASS O	1746	PASS W	1131
PASS X	1007	PAUSE3	1233	PAUSEE	1332	PCHCD/	838	PCHCD2	838	PCHTS2	984	PERIOD	154
PGCTR#	664	PGCTR7	664	PGCTR8	1467	PGET T	1424	PGNO A	2931	PHEW I	1954	PHEW K	1652
PHEW1K	1659	PHILF0	2815	PHIRT0	2816	PHSELX	845	PHSE2N	937	PHSE2O	849	PHSE2P	849
PHSE2T	980	PHSE2X	845	PHSE3J	857	PHSE3N	1187	PHSE3O	849	PHSE3X	845	PHSE4N	1187
PICK C	1104	PKXT A	1969	PLACEM	1890	PLUS <	1544	PLUS Y	2492	PLUS11	1337	PLUS1L	1226
PLUSDF	160	PMOV 7	2039	PMOV M	1809	PMOV1C	1213	PMOV2C	1258	PMOV3E	1126	PNOT T	1479
POSTVQ	1486	PRDX B	938	PRED F	1694	PRED G	1826	PREP1Z	2447	PRESZK	2444	PRINT.	1257
PRINT8	971	PRINTE	1380	PRINTL	1094	PRMCDA	681	PRMSGA	1190	PRNTNT	250	PRNUMN	1562
PROBFB	1397	PROD H	2091	PRODL7	1963	PRTHDA	2267	PRTSW7	2936	PRTXT#	564	PRTXT7	564
PSKIPV	1174	PSUDON	1581	PULL1G	1409	PUNCHE	1375	PURE R	1131	PUT1 B	1595	PUT2 B	1606
PUT3 B	1617	PUT4 B	1628	PUT5 B	1639	PUT6 B	1650	PUT7 B	1661	PUTB I	2224	PUTC I	2438
PUTE M	1090	PUTMIX	1652	PUTN T	1998	PUTS X	1280	PXT /	855	PZ Y	1779	QUIT A	2233
QVERRG	1867	QVXT G	1905	RANDMJ	1075	RANDMN	964	RANDMO	1388	RDCNT2	1585	RDCNTA	837
RDCNTR	1631	RDITPE	1370	RDMSGG	1909	RDTAP2	1085	RDTAPE	1403	RDTAPR	1171	RDTPS2	931
RDTPX2	1252	RDXERB	1469	RDXT G	1947	READ 2	1074	READ E	1357	READ R	1160	READ2R	1011
REDUNG	1859	REFSWT	2518	REG %	1240	RELOCH	2081	RELOCR	1217	RELOKT	1672	RELXTR	1331
REMCKZ	1064	REMOVE	1484	REMV B	996	REPLCE	1314	REPLCV	1142	REPLST	2159	RESET0	2508
RESET1	893	RESETF	1191	RESETX	1068	RESETZ	1590	REST 1	865	RESTOI	1347	RESTRJ	1264
RESTRO	1545	RESTRX	1456	RETRN#	938	RETRN2	1070	RETRN4	1178	RETRN9	1176	RETRNT	995
RIGHT7	3088	RIGHTK	2442	RIGHTV	1106	RMVCMX	1817	RON Q	1387	ROOM Z	1361	ROUNDZ	1409
ROWS I	2767	RPLCED	881	RSTRX#	535	RSTRX7	535	RSTRX8	1128	RSX2 O	1161	RSX3 Z	1483
RTLFTK	1549	RTLFTN	1380	RTN 3	1118	RTN 5	1101	RTN2 J	1494	RTNA I	1093	RTNB I	1950
RTNLDZ	2356	RTP 6	209	RTPARI	2212	RTPARJ	1795	RTPARM	1369	RTPART	1541	RTPARX	1272
RTPXL6	930	RTR Z	1463	RTREVE	976	RU68 V	890	RUADR.	1114	RUADRX	1842	RUBADL	1178
RUCGTN	1229	RUCOM0	1228	RUCONK	1216	RUDIF%	1071	RUDUNX	922	RUDUPX	978	RUFIX.	1181
RUFFIX0	2207	RUFN I	1487	RUINT0	1836	RUIO T	1352	RUOK %	1365	RUOK X	1897	RWD E	1425
S K	2342	SAUCEK	2700	SAUCEN	3200	SAUCEP	2600	SAUCEP	2700	SAUCEZ	856	SAV1 A	2838
SAV2 Y	2842	SAVE Z	1225	SAVE1G	1968	SAVEIN	1143	SAVE1X	2080	SAVE1Z	2413	SAVE2J	856
SAVE33	1616	SAVE3C	2003	SAVE5G	2143	SAVX2O	2057	SAVX37	2962	SAVX3Y	2689	SBR 1	1082
SBR Q	1494	SBR V	1131	SBR4 X	1212	SBR6 C	1161	SBRAYI	1743	SBSCR0	1347	SBSCRI	1583

SBVRT0	1890	SCAN J	873	SCAN K	986	SCAN Y	1382	SCAN2G	1609	SCAN2Y	1389	SCANRA	2070
SCFB B	1199	SCNBXT	2423	SCNDLV	873	SCNEQY	1216	SEEK J	981	SEEK O	1293	SEEK W	923
SEL A	1310	SEL B	1134	SEND %	1197	SEND 0	1912	SEND J	1272	SEND W	1169	SENLTE	1477
SENSEB	1260	SENSEM	1193	SERCH#	437	SET K	1266	SET1 T	1533	SET3 M	1624	SETN T	1122
SETP 9	1606	SETSWV	966	SETUP3	1084	SETUPK	1002	SETUPX	1634	SETWMM	1540	SETWMR	664
SETX1Z	1396	SETX2T	2260	SHIFTE	1026	SINFUN	903	SIX0 M	1952	SIXTNZ	1663	SKGBGV	1015
SKIP 0	1603	SKIP 1	1283	SKIP L	956	SKIP V	1186	SKIP Y	1880	SKIP21	1291	SKIPFH	1605
SKLOZI	1547	SKPSS2	920	SKPSW1	1522	SKPXC6	975	SKPXL2	1241	SKPXL6	988	SLASHA	1535
SLASHT	1636	SLIDEI	1415	SLIDEN	937	SLIDEW	1064	SLIDEX	1064	SLIDEX	942	SLIP X	893
SMALL.	901	SNDM2X	1523	SNDPTX	1001	SNDUMY	1128	SNGL 9	943	SNGL Q	1253	SNSE B	2432
SPACEG	878	SPACEX	2140	SPACEZ	1246	SPCL Q	1284	SPEC 9	1644	SPLITI	1656	SQRTFN	879
SQUEZZ	1971	SQUOZ<	1572	SQUOZO	1704	SQUOZW	959	START#	337	START%	859	START&	838
START*	838	START.	845	START0	1060	START1	337	START2	884	START3	838	START4	838
START5	838	START6	838	START7	838	START8	838	START9	842	START<	838	STARTA	838
STARTB	838	STARTC	1022	STARTD	838	STARTF	914	STARTG	1115	STARTH	931	STARTI	856
STARTJ	879	STARTK	877	STARTL	898	STARTM	864	STARTN	1205	STARTO	1210	STARTR	934
STARTS	916	STARTU	838	STARTW	854	STARTX	888	STARTY	838	START[	838	STATEM	1979
STLOCE	83	STMNOA	2822	STMNOE	1494	STO 0	913	STODDK	2264	STOP E	1336	STORE1	1237
STORE2	1271	STOREA	1364	STOREZ	853	STOTPR	1423	STREGZ	1926	STRIPM	1670	STRIPO	1414
STRX1Z	1635	SUB C	1096	SUB1 7	2728	SUB1 Y	2657	SUB2 K	1198	SUB3 7	2147	SUB5 Y	1190
SUBSC<	2199	SUBSCK	1176	SUBSCR	191	SUBSWI	2503	SUBSWK	2038	SUBTRI	2033	SUBTRJ	1131
SUBTRN	989	SUBTRO	1424	SUBXT7	2754	SV1 X	2063	SVORGG	1181	SVZN M	1981	SVZN X	2060
SW 1	1060	SW1 A	1332	SW1 I	1119	SW1 R	583	SW1 T	2418	SW2X2R	1266	SWAP 7	1575
SWCH N	1583	SWCHAI	956	SWCHAJ	1099	SWCHAK	2272	SWCHBI	1332	SWCHBJ	1731	SWCHCJ	1256
SWCHDJ	2076	SWCHEJ	943	SWCHFJ	1806	SWCHGJ	1739	SWCHSK	2243	SWCHXK	1390	SWCHZK	1404
SWEAT5	955	SWEATY	2254	SWIX2J	1594	SWLWP1	1156	SWM Y	2363	SWOFFX	1608	SWTCH%	1212
SWTCH2	1416	SWTCHQ	998	SWTCHX	1543	SYMB U	1032	SYMBLZ	1702	SYN2RI	1938	SYN2SI	2502
SYNER<	2122	SYNERF	1484	SYNERG	883	SYNERM	1755	SYNTAX	1784	SYS1 &	931	SYS1 *	975
SYS1 /	1417	SYS1 3	1661	SYS1 4	1614	SYS1 9	1758	SYS1 D	1112	SYS1 E	1567	SYS1 F	1845
SYS1 G	1979	SYS1 K	2601	SYS1 U	1324	SYS1 V	1271	SYS1 W	1256	SYS1 X	1265	SYS1 Z	1594
SYS2 1	1573	SYS2 6	1144	SYS2 G	2145	SYS2 H	2273	SYS2 O	1397	SYS2 P	1405	SYS2 Q	1549
SYS2 T	2599	SYS2 X	2197	SYS2 Z	1676	SYS3 N	1689	SYS3 X	1018	SYS4 J	2499	SYS4 N	1726
SYS5 L	1361	SYS6 S	2610	SYSC22	1612	SYSCG.	1469	SYSG 8	1470	SYSGM0	3091	SYSGM7	3103
SYSGM<	2768	SYSGMA	2999	SYSGMY	2873	SYSGMZ	2469	SYSGM[	1068	SYSL 5	1292	SYSMKC	1427
T1 #	498	T2 #	540	TABELZ	2499	TABLE7	2241	TABLEC	838	TABLEE	1197	TABLEK	2311
TABLEM	1945	TABLES	2329	TABLEZ	897	TAIL 0	2747	TAIL K	1837	TAKE M	1544	TALLYG	865
TAMAXT	2600	TAMR1T	1599	TAMROF	980	TAPE 9	1710	TBAD2R	1563	TBEGIN	1810	TBKFF1	1013
TBL1 Z	847	TBL2 Z	883	TBLADR	927	TBLR 7	2572	TBOOT#	553	TCLEAR	710	TEMP 0	2572
TEMP O	2136	TEMP2O	2139	TEN A	2536	TERM 1	1204	TEST %	1301	TEST .	1148	TEST H	1313
TEST J	1671	TEST K	1435	TEST M	932	TEST1B	1089	TEST1K	1016	TEST1Z	884	TEST2B	1102
TEST2K	1031	TEST2Q	1095	TEST2V	1068	TEST2Z	2443	TEST3Z	2444	TEST5Q	991	TEST5V	1033
TESTAZ	1570	TESTBZ	1590	TESTCZ	1610	THREEZ	838	THRU L	1045	TLGM 9	1282	TLU I	1240
TMPSZS	2540	TMS3 Z	1207	TOP %	1642	TOP M	914	TOP Q	1519	TOP R	1641	TOP2 Q	1522
TOTALA	2807	TOTALK	2428	TOVL A	1228	TPERM#	581	TPERR2	1102	TPERR6	284	TPERRR	1188
TPERX6	947	TPNAMM	1161	TRACKK	200	TRAP .	1359	TRAWMZ	1730	TRY2 M	1655	TRYITK	972
TSDUNH	1660	TST1 <	1172	TST1 G	1195	TSTCSZ	1814	TSTIOH	838	TSTNDA	1669	TSTMWZ	1400
TU I	2204	TUBIGH	1566	TUF 7	1328	TUF2 7	1344	TUKIT0	2493	TUNO 9	1638	TUNO I	1336
TUNO U	1225	TURN G	1592	TURN I	1858	TURN K	1994	TUSW I	2599	TWIST1	2097	TWISTK	1603
TWLVS8	1043	TWO A	2513	TWO9 N	1275	TWO9 O	1332	TWO9 P	1307	TYPE 0	2870	TYPE1R	993
UNARY7	2672	UNDEFJ	1824	UNI9 F	1050	UNITSO	2819	UNITSK	1894	UNPAKA	1876	UNPAKN	1200
UNPAKO	1256	UNPAKP	1231	UNREFJ	965	UNREFN	1412	UNREFT	1361	UPDATZ	2204	UPLIMJ	848
UPLIMN	849	UPLIMO	848	UPLIMP	848	URFSWT	2550	VARBLI	1992	VARBLM	1283	VBLSWI	2779
VERSEI	2505	VSERRI	1036	VZONEI	2768	VZONEJ	2336	WCTR T	2495	WITCHM	1224	WK5 A	2653
WK5 O	2071	WK51 A	2648	WK51 O	2208	WKBK1Z	870	WKBK2Z	875	WKBK3Z	1668	WMSW Z	1613
WMTSTZ	1514	WORD #	680	WORDLI	2587	WORK 3	1598	WORK A	2425	WORK B	2397	WORK F	1690
WORK G	849	WORK I	2646	WORK J	2296	WORK K	2363	WORK O	2106	WORK U	893	WORK1M	1962
WORK34	1613	WORK3A	2834	WORK3C	1352	WORK3I	2597	WORK5J	853	WORK6A	2817	WORK9C	1820
WORRYL	968	WORRYM	1026	WORRYN	1321	WORRYY	1109	WOW K	2043	WP 1	1103	WPB 1	1152
WPCS 1	1497	WRAP N	1390	WRDMVZ	1393	WRONGX	1116	WRTAPE	1412	WTOTPE	1395	X1 %	89
X1 &	89	X1 *	89	X1 .	89	X1 0	89	X1 1	89	X1 3	89	X1 4	89
X1 5	89	X1 6	89	X1 7	89	X1 8	89	X1 9	89	X1 <	89	X1 B	89

X1	C	89	X1	D	89	X1	E	89	X1	F	89	X1	G	89	X1	H	89	X1	I	89
X1	J	89	X1	K	89	X1	L	89	X1	M	89	X1	N	89	X1	O	89	X1	P	89
X1	Q	89	X1	R	89	X1	S	89	X1	T	89	X1	U	89	X1	V	89	X1	W	89
X1	X	89	X1	Y	89	X1	Z	89	X2	%	94	X2	.	94	X2	0	94	X2	1	94
X2	3	94	X2	4	94	X2	5	94	X2	7	94	X2	9	94	X2	<	94	X2	C	94
X2	D	94	X2	E	94	X2	F	94	X2	G	94	X2	H	94	X2	I	94	X2	J	94
X2	K	94	X2	L	94	X2	M	94	X2	N	94	X2	O	94	X2	P	94	X2	Q	94
X2	R	94	X2	S	94	X2	T	94	X2	U	94	X2	V	94	X2	W	94	X2	X	94
X2	Y	94	X2	Z	94	X25	Z	1594	X3	%	99	X3	&	99	X3	*	99	X3	.	99
X3	0	99	X3	1	99	X3	3	99	X3	4	99	X3	5	99	X3	7	99	X3	8	99
X3	9	99	X3	<	99	X3	F	99	X3	G	99	X3	H	99	X3	I	99	X3	J	99
X3	K	99	X3	L	99	X3	M	99	X3	N	99	X3	O	99	X3	P	99	X3	Q	99
X3	R	99	X3	S	99	X3	T	99	X3	U	99	X3	V	99	X3	W	99	X3	X	99
X3	Y	99	X3	Z	99	X35	Z	1599	X3ANDI	7+X3	XABSVA	122	XATANF	121	XBEGIN	838				
XCOMF1	117	XDOAD1	111	XDOAD2	112	XDOAD3	113	XDOINI	114	XDOSBS	116	XEUNTK	1683							
XEXPON	157	XFIXFU	124	XFLTFU	125	XL1	#	89	XL1	7	89	XL1	A	89	XL1	C	89			
XL1	E	89	XL2	#	94	XL2	A	94	XL2	E	94	XL2	T	94	XL3	#	99			
XL3	7	99	XL3	A	99	XL3	C	99	XL3	E	99	XL3	T	99	XLINKF	139	XLINKS	840		
XLINKW	185	XLOGFN	119	XNEGTF	123	XNOT	T	1281	XOBLST	115	XPANDI	1726	XPMODY	2768						
XPNETL	897	XPON	Y	2767	XPONTK	2420	XSINFU	118	XSQRTF	126	XSUB	Y	2513	XTPSW9	1757					
XUSER1	127	XUSER2	128	XUSER3	129	XUSER4	130	XUSER5	131	XUSER6	132	XUSER7	133							
XUSER8	134	XUSER9	135	XUSR10	136	XUSR11	137	XUSR12	138	XXPNTL	120	XXX	#	0						
XXX	7	0	XXX	8	0	XXX	9	1165	XXX	T	0	XXXX	C	0	XXXX	E	0	YEAH	M	1413
YESIOT	1291	YIPEE6	201	YUSER1	876	YUSER2	873	YUSER3	870	YUSER4	867	YUSER5	864							
YUSER6	861	YUSER7	858	YUSER8	855	YUSER9	852	YUSR10	849	YUSR11	846	YUSR12	843							
ZADD	C	1442	ZERO	#	637	ZERO	5	1162	ZERO	M	1597	ZERO	Y	2500	ZEROS#	641	ZEROZJ	2247		
ZNA	J	1929	ZON190	1334	ZONCH<	2035	ZONE	.	1243	ZONE	0	2829	ZONE	C	1009	ZONE	L	1080		
ZONE	N	1627	ZONE	Z	886	ZONESH	2098	ZONESI	2602	ZONESJ	2250	ZONESN	1276	ZONESO	2015					
ZONESP	1308	ZONESS	2497	ZONESX	2019															