

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

1401 FORTRAN	FORMAT PACKAGE	5054A	PAGE	1
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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	01		JOB	1401 FORTRAN FORMAT PACKAGE						
102	1	02		CTL	645 11						
103	1	03		SFX	Q	Q					
104	1	04	110	DCW	@FORMATPAK@	Q	9	0110			4
105	1	05	X1	EQU	089	Q		0089			
106	1	06	X2	EQU	094	Q		0094			
107	1	07	X3	EQU	099	Q		0099			
108	1	08	PARAM	EQU	686	Q		0686			
109	1	09	MONTER	EQU	700	Q		0700			
110	1	10	TCLEAR	EQU	710	Q		0710			
111	1	11	MONTOR	EQU	769	Q		0769			
112	1	12	STARTR	EQU	934	Q		0934			
113	1	13		ORG	STARTR	Q			0934		
114	1	14	FOMAT	SW	GMWM,FORMAT	Q	7	0934	, S53 W97		5
115	1	15		BCE	TPSYS,MONTOR,N	Q	8	0941	B | 59 769 N		5
116	1	16	CDSYS	BCE	CDLIO,PARAM&10,L	Q	8	0949	B | 26 696 L		5
117	1	17	SKLIO	R		Q	1	0957	1		5
118	1	18		BCE	NTEST,68,B	Q	8	0958	B 970 068 B		5
119	1	19		B	SKLIO	Q	4	0966	B 957		5
120	1	20	NTEST	BCE	SKFIO,PARAM&10,X	Q	8	0970	B | 34 696 X		6
121	1	21		R	040	Q	4	0978	1 040		6
122	1	22	CWFIO	CW	GMK	Q	4	0982	) 28W		6
123	1	23		C	PARAM&4,@01@	Q	7	0986	C 690 S39		6
124	1	24		BU	ATEST	Q	5	0993	B | 05 /		6
125	1	25		LCA	@N@,CWMKS	Q	7	0998	L S40 A38		6
126	1	26	ATEST	BCE	CDAF,PARAM&10,A	Q	8	1005	B | 47 696 A		7
127	1	27	SKAIO	R		Q	1	1013	1		7
128	1	28		BCE	EXITA,68,B	Q	8	1014	B / 41 068 B		7
129	1	29		B	SKAIO	Q	4	1022	B | 13		7
130	1	30	CDLIO	R	040	Q	4	1026	1 040		7
131	1	31	CWLIO	CW	GPWDMK	Q	4	1030	) !22		7
132	1	32	SKFIO	R		Q	1	1034	1		7
133	1	33		BCE	ATEST,68,B	Q	8	1035	B | 05 068 B		8
134	1	34		B	SKFIO	Q	4	1043	B | 34		8
135	1	35	CDAF	R	040	Q	4	1047	1 040		8
136	1	36	CWAF	CW	GM54D	Q	4	1051	) 61W		8
137	1	37		B	EXITA	Q	4	1055	B / 41		8
138	1	38	TPSYS	BCE	TPLIO,PARAM&10,L	Q	8	1059	B / 64 696 L		8
139	1	39	SKPL	RTW	1,GMWM	Q	8	1067	L %U1 S53 R		9
140	1	40		BER	TPER	Q	5	1075	B S11 L		9
141	1	41		BCE	SKPF,PARAM&10,X	Q	8	1080	B / 77 696 X		9
142	1	42	FULIO	RTW	1,FORMAT	Q	8	1088	L %U1 W97 R		9
143	1	43		BER	TPER	Q	5	1096	B S11 L		9
144	1	44		C	PARAM&4,@01@	Q	7	1101	C 690 S39		10
145	1	45		BU	TSTAF	Q	5	1108	B / 20 /		10
146	1	46		LCA	@N@,CWMKS	Q	7	1113	L S40 A38		10
147	1	47	TSTAF	BCE	TPAF,PARAM&10,A	Q	8	1120	B / 94 696 A		10

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	1	48	SKPAF	RTW	1,GMWM	Q	8	1128	L %U1 S53 R		10
149	1	49		BER	TPER	Q	5	1136	B S11 L		11
150	1	50	EXITA	FENDX	C , , , , , GMWM, REPLACE 2	Q				MACRO	
151			EXITA	BSS	333, C	Q	5	1141	B 333 C	GEN	11
152				SBR	TCLEAR, GMWM	Q	7	1146	H 710 S53	GEN	11
153				LCA	@REPLACE 2@, 110	Q	7	1153	L S49 110	GEN	11
154				B	MONTER	Q	4	1160	B 700	GEN	11
155	1	51	TPLIO	RTW	1, FORMAT	Q	8	1164	L %U1 W97 R		11
156	1	52		BER	TPER	Q	5	1172	B S11 L		12
157	1	53	SKPF	RTW	1, GMWM	Q	8	1177	L %U1 S53 R		12
158	1	54		BER	TPER	Q	5	1185	B S11 L		12
159	1	55		B	SKPAF	Q	4	1190	B /28		12
160	1	56	TPAF	RTW	1, ABEGN	Q	8	1194	L %U1 28 | R		12
161	1	57		BER	TPER	Q	5	1202	B S11 L		12
162	1	58		B	EXITA	Q	4	1207	B /41		12
163	1	59	TPER	SBR	BBACK&3	Q	4	1211	H S37		13
164	1	60		MA	@I8G@, BBACK&3	Q	7	1215	# S52 S37		13
165	1	61		BSP	1	Q	5	1222	U %U1 B		13
166	1	62		H	3333, 3333	Q	7	1227	. C33 C33		13
167	1	63	BBACK	B	0	Q	4	1234	B 000		13
168	1	64		LTORG	*	Q			1238		
				DCW	@01@	Q	2	1239		LIT	13
				DCW	@N@	Q	1	1240		LIT	13
				DCW	@REPLACE 2@	Q	9	1249		LIT	14
				DCW	@I8G@	Q	3	1252		LIT	14
169	1	65	GMWM	DCW	@}@	Q	1	1253		GMARK	14
170	1	66		XFR	FOMAT	Q			B 934		15

GROUP MARK
NEXT COMES LIO, THEN FULL I/O

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
171	1	67		JOB	OBJECT TIME FORMAT	Q					
172	1	68		ORG	1697	Q			1697		
173	1	69	START	SBR	X1	Q	4	1697	H 089		18
174	1	70		SW	GPWDMK	Q	4	1701	, !22		18
175	1	71		CW	0&X1	Q	4	1705	) 0|0		18
176	1	72		MCW	X3, SAVX3#3	Q	7	1709	M 099 Z99		18
177	1	73		LCA	@001@, X3	Q	7	1716	L !02 099		18
178	1	74		BWZ	WRTAP, 0&X1, S	Q	8	1723	V Z17 0|0 S		18
179	1	75		MCW	@R@, IO4&7	Q	7	1731	M !03 Y55		19
180	1	76	RDTAP	MCW	6&X1, LOC#3	Q	7	1738	M 0|6 !06		19
181	1	77	IO1	MCW	LOC, IO12&6	Q	7	1745	M !06 X58		19
182	1	78	IO12	BCE	RET, 000, .	Q	8	1752	B Z02 000 .		19
183	1	79		MA	@006@, LOC	Q	7	1760	# !09 !06		19
184	1	80		MCW	LOC, IO15&3	Q	7	1767	M !06 X77		20
185	1	81	IO15	MCW	000, ADDR#6	Q	7	1774	M 000 !15		20
186	1	82		SW	ADDR-2	Q	4	1781	, !13		20
187	1	83		MA	@001@, ADDR	Q	7	1785	# !02 !15		20
188	1	84		MCW	ADDR, IO2&3	Q	7	1792	M !15 Y02		20
189	1	85	IO2	MCW	000, SAVCH#1	Q	7	1799	M 000 !16		20
190	1	86		MCW	ADDR, IO3&6	Q	7	1806	M !15 Y19		21
191	1	87	IO3	LCA	GPWDMK, 000	Q	7	1813	L !22 000		21
192	1	88		MCW	ADDR-3, IO4&6	Q	7	1820	M !12 Y54		21
193	1	89		MN	0&X1, IO4&3	Q	7	1827	D 0|0 Y51		21
194	1	90		S	COUNT#1, COUNT	Q	7	1834	S !17 !17		21
195	1	91		MZ	@A@, IO4&5	Q	7	1841	Y !18 Y53		22
196	1	92	IO4	RTW	1, 000	Q	8	1848	L %U1 000 R		22
197	1	94		BER	RWT31	Q	5	1856	B Z28 L		22
198	1	95		MCW	ADDR, IO5&6	Q	7	1861	M !15 Y74		22
199	1	96	IO5	MCW	SAVCH, 000	Q	7	1868	M !16 000		22
200	1	97		MA	@001@, LOC	Q	7	1875	# !02 !06		23
201	1	98		CW	ADDR-2	Q	4	1882	) !13		23
202	1	981		BEF	RWT78	V3M4 Q	5	1886	B Z90 K		23
203	1	982		MA	@001@, LOC	V3M4 Q	7	1891	# !02 !06		23
204	1	99		B	IO1	Q	4	1898	B X45		23
205	2	00	RET	MCW	SAVX3, X3	Q	7	1902	M Z99 099		23
206	2	01		SW	0&X1	Q	4	1909	, 0|0		23
207	2	02		B	7&X1	Q	4	1913	B 0|7		24
208	2	03	WRTAP	MCW	@W@, IO4&7	Q	7	1917	M !19 Y55		24
209	2	04		B	RDTAP	Q	4	1924	B X38		24
210	2	05	RWT31	BCE	RWT77, COUNT, I	Q	8	1928	B Z83 !17 I		24
211	2	06		MN	IO4&3, *&4	Q	7	1936	D Y51 Z46		24
212	2	07		UB	%U0	Q	5	1943	U %U0 B		24
213	2	08		BCE	RWT41, IO4&7, W	Q	8	1948	B Z67 Y55 W		25
214	2	09		A	@1@, COUNT	Q	7	1956	A !20 !17		25
215	2	10		B	IO4	Q	4	1963	B Y48		25
216	2	11	RWT41	MN	IO4&3, *&4	Q	7	1967	D Y51 Z77		25
217	2	12		UE	%U0	Q	5	1974	U %U0 E		25
218	2	13		B	IO4	Q	4	1979	B Y48		25
219	2	14	RWT77	H	*-6, 777	Q	7	1983	. Z83 777		26
220	2	15	RWT78	H	*-6, 888	Q	7	1990	. Z90 888		26

OBJECT TIME FORMAT					5054B	PAGE	4				
SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
221	2	16		LTORG	*	Q			1997		
			SAVX3Q	DCW	#03	Q	3	1999		AREA	26
				DCW	@001@	Q	3	2002		LIT	26
				DCW	@R@	Q	1	2003		LIT	26
			LOC	Q	DCW #03	Q	3	2006		AREA	26
				DCW	@006@	Q	3	2009		LIT	26
			ADDR	Q	DCW #06	Q	6	2015		AREA	27
			SAVCHQ	DCW	#01	Q	1	2016		AREA	27
			COUNTQ	DCW	#01	Q	1	2017		AREA	27
				DCW	@A@	Q	1	2018		LIT	27
				DCW	@W@	Q	1	2019		LIT	27
				DCW	@1@	Q	1	2020		LIT	27
222	2	17		DCW	@ @	Q	1	2021			27
223	2	18	GPWDMK	DCW	@}@	Q	1	2022		GMARK	28
224	2	19		XFR	CWLIO	Q			B | 30		29

GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
225	2	20		JOB	OBJECT TIME FORMAT	Q					
226	2	21		ORG	1697	Q			1697		
227	2	22	FORMAT	SBR	X1	Q	4	1697	H 089		32
228	2	23		MLC	0&X1,FMTZON	Q	7	1701	M 0|0 J36		32
229	2	24		MLC	*-6,IO	Q	7	1708	M X08 D38		32
230	2	25		SBR	FMTXT&3, 7&X1	Q	7	1715	H J35 0|7		32
231	2	26		MCW	6&X1,LIST&6	Q	7	1722	M 0|6 Z68		32
232	2	27		ZA	*-6,PCTR	Q	7	1729	? X29 L27		32
233	2	28		CW	INSW#1	Q	4	1736	) 25|		33
234	2	29		SW	GMK	Q	4	1740	, 28W		33
235	2	30		MCW	3&X1, XL2	Q	7	1744	M 0|3 094		33
236	2	31		SBR	X3, 200	Q	7	1751	H 099 200		33
237	2	32		SBR	TUMUCH#3,334	Q	7	1758	H 25T 334		33
238	2	33		BCE	READC, 0&X1, &	Q	8	1765	B E60 0|0 &		33
239	2	34		BCE	PUNCH, 0&X1, -	Q	8	1773	B E29 0|0 -		34
240	2	35		BCE	PRINT, 0&X1, *	Q	8	1781	B D75 0|0 *		34
241	2	36		BWZ	RDITP, 0&X1, K	Q	8	1789	V C16 0|0 K		34
242	2	37		BWZ	WT2,0&X1,B	Q	8	1797	V C79 0|0 B		34
243	2	38		SBR	X2,RDRTB	Q	7	1805	H 094 Z16		34
244	2	39		CS	332	Q	4	1812	/ 332		35
245	2	40		CS		Q	1	1816	/		35
246	2	41		CS		Q	1	1817	/		35
247	2	42		SBR	X3,100	Q	7	1818	H 099 100		35
248	2	43		MLC	ELL,IO	Q	7	1825	M !79 D38		35
249	2	44	LOOP2	SW	0&X3	Q	4	1832	, 0?0		35
250	2	45		B	GETAD	Q	4	1836	B Z43		35
251	2	46		BWZ	RDITP,FMTZON,2	Q	8	1840	V C16 J36 2		36
252	2	47		SBR	BUCKT,100	Q	7	1848	H 25W 100		36
253	2	48	MVAGN	MLC	0&X1,0&X3	Q	7	1855	M 0|0 0?0		36
254	2	49		SAR	X2	Q	4	1862	Q 094		36
255	2	50		B	SBRX3	Q	4	1866	B J37		36
256	2	51		BW	*&5,1&X2	Q	8	1870	V Y82 0!1 1		36
257	2	52		B	MVAGN	Q	4	1878	B Y55		37
258	2	53		B	CKOVF	Q	4	1882	B Q08		37
259	2	54		SBR	OUTPT&3,TPCMND	Q	7	1886	H K22 C88		37
260	2	55		B	LOOP2	Q	4	1893	B Y32		37
261	2	56	OUT	B	CKOVF	Q	4	1897	B Q08		37
262	2	57		MLCWA	0&X3,0&X1	Q	7	1901	L 0?0 0|0		37
263	2	58		B	GETAD	Q	4	1908	B Z43		37
264	2	59	RDRTN	B	SBRX3	Q	4	1912	B J37		38
265	2	60	RDRTB	BW	OUT,1&X3	Q	8	1916	V Y97 0?1 1		38
266	2	61		B	RDRTN	Q	4	1924	B Z12		38
267	2	62	FMAIN	SBR	OUTPT&3	Q	4	1928	H K22		38
268	2	63		MLC	X3,BUCKT#3	Q	7	1932	M 099 25W		38
269	2	64		B	0&X2	Q	4	1939	B 0!0		38
270	2	65	GETAD	SBR	GTXT&3	Q	4	1943	H !06		38
271	2	66		MLC	X2,SAVE2&6	Q	7	1947	M 094 !02		39
272	2	67		BW	ALRDY,LKHED	Q	8	1954	V !31 24Z 1		39
273	2	68	LIST	T	OBLIST	Q	4	1962	T 912		39
274	2	69	MLBOX	DCW	#3	Q	3	1968			39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
275	2	70		SBR	X2						
276	2	71	RMVZN	MZ	NOZN,X1-1						
277	2	72		BCE	NTRAY,X1,.						
278	2	73		BCE	UNDUN,X1,						
279	2	74	SAVE2	SBR	X2,XXX						
280	2	75	GTXT	B	XXX						
281	2	76	UNDUN	BW	FMTXT,INSW						
282	2	77		C	BUCKT,X3						
283	2	78		BU	NDLIN						
284	2	79		B	FMTXT						
285	2	80	ALRDY	CW	LKHED						
286	2	81		MLC	SAVE1,X1						
287	2	82		B	RMVZN						
288	2	83	NTRAY	MLC	2&X2,X3						
289	2	84		MLC	5&X2,X1						
290	2	85		MLC	1&X1,GMKHD#1						
291	2	86		BW	*5,1&X1						
292	2	87		CW	GMKSW#1						
293	2	88	ELL	MLCWA	GMK,1&X1						
294	2	89		B	SBRX3						
295	2	90		SBR	X2,ARRTN						
296	2	91		BWZ	RDITP,FMTZON,2						
297	2	92		B	TPCMND						
298	2	93	ARRTN	MLC	GMKHD,1&X1						
299	2	94		BW	FMTXT,GMKSW						
300	2	95		CW	1&X1						
301	2	96		SW	GMKSW						
302	2	97	FMTXT	B	XXX						
303	2	98	FMTZON	DCW	@ @						
304	2	99	SBRX3	SBR	SBRX3&14						
305	3	00		SBR	X3,1&X3						
306	3	01		B	0						
307	3	02	OPNPR	SBR	X2						
308	3	03		MN	0&X2						
309	3	04		MN							
310	3	05		MN							
311	3	06		MN							
312	3	07		SAR	REPEAT&3						
313	3	08		MCW	2&X2,RTPA#3						
314	3	09		SBR	LAST1&3,3&X2						
315	3	10		B	DECRA						
316	3	11	CLSPR	SBR	X2						
317	3	12	DECRA	S	ONE,RTPA						
318	3	13		BM	0&X2,RTPA						
319	3	14	LAST1	B	XXX						
320	3	15	NDLIN	SBR	X2						
321	3	16		MLC	BUCKT,X3						
322	3	17	OUTPT	B	XXX						
323	3	18	EOJ1	BW	NOPSW,INSW						
324	3	19		C	BUCKT,X3						

OBJECT TIME FORMAT						5054C		PAGE		7	
SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
325	3	20		BU	NDLIN	Q	5	2238	B K08 /		47
326	3	21	NOPSW	MLC	LIST&6,*&7	Q	7	2243	M Z68 K56		47
327	3	22		BCE	NOPBR,0,,	Q	8	2250	B K98 000 ,		47
328	3	23		MLC	LIST&6,*&7	Q	7	2258	M Z68 K71		48
329	3	24		T	OBLIST	Q	4	2265	T 912		48
330	3	25	EJBOX	DCW	#3	Q	3	2271			48
331	3	26		BCE	FMTXT,X1,	Q	8	2272	B J32 089		48
332	3	27		MLC	EJBOX,MLBOX	Q	7	2280	M K71 Z68		48
333	3	28		MLC	X1,SAVE1#3	Q	7	2287	M 089 26U		48
334	3	29		SW	LKHED	Q	4	2294	, 24Z		49
335	3	30	NOPBR	BW	NDLIN,INSW	Q	8	2298	V K08 25| 1		49
336	3	31	REPEAT	B	XXX	Q	4	2306	B 000		49
337	3	32	SCALE	SBR	X2	Q	4	2310	H 094		49
338	3	33		ZA	2&X2,PCTR	Q	7	2314	? 0!2 L27		49
339	3	34		B	3&X2	Q	4	2321	B 0!3		49
340	3	35	PCTR	DCW	&000	Q	3	2327			49
341	3	36	HOLLR	SBR	X2	Q	4	2328	H 094		50
342	3	37	TESTH	BW	HOLIN,INSW	Q	8	2332	V L47 25| 1		50
343	3	38	HLOUT	MLC	0&X2,0&X3	Q	7	2340	M 0!0 0?0		50
344	3	39	HOLIN	MLC	0&X3,0&X2	Q	7	2347	M 0?0 0!0		50
345	3	40		B	SBRX3	Q	4	2354	B J37		50
346	3	41		SBR	X2,1&X2	Q	7	2358	H 094 0!1		50
347	3	42		BW	*&5,0&X2	Q	8	2365	V L77 0!0 1		51
348	3	43		B	TESTH	Q	4	2373	B L32		51
349	3	44		B	CKOVF	Q	4	2377	B Q08		51
350	3	45		B	0&X2	Q	4	2381	B 0!0		51
351	3	46	GETW	SBR	X2	Q	4	2385	H 094		51
352	3	47		MCW	3&X2, RPTB#3	Q	7	2389	M 0!3 26X		51
353	3	48	DCRPB	S	ONE,RPTB	Q	7	2396	S E78 26X		51
354	3	49		BWZ	GTRTN,RPTB,B	Q	8	2403	V M31 26X B		52
355	3	50		BCE	7&X2,0&X2,I	Q	8	2411	B 0!7 0!0 I		52
356	3	51		BCE	7&X2,0&X2,A	Q	8	2419	B 0!7 0!0 A		52
357	3	52		B	10&X2	Q	4	2427	B 0J0		52
358	3	53	GTRTN	B	GETAD	Q	4	2431	B Z43		52
359	3	54		AFIXW	S,FIXWD	Q				MACRO	
360				S		Q	1	2435	S	GEN	52
361				DC	@_0@	Q	2	2437		GEN	52
362				DC	0	Q	1	2438		GEN	52
363	3	55	EFNTN	AFLTW	SW,FLTWD,-1	Q				MACRO	
364			EFNTN	SW		Q	1	2439	,	GEN	52
365				DC	@;0@	Q	2	2441		GEN	52
366				DC	-1	Q	1	2442		GEN	53
367	3	56		BW	INEFI, INSW	Q	8	2443	V F55 25| 1		53
368	3	57		CS	24	Q	4	2451	/ 024		53
369	3	58		SW	0&X3	Q	4	2455	, 0?0		53
370	3	59		MN		Q	1	2459	D		53
371	3	60		SBR	X3	Q	4	2460	H 099		54
372	3	61		SBR	JOE4&3,2&X3	Q	7	2464	H Q97 0?2		54
373	3	62		SBR	FINS&3	Q	4	2471	H A49		54
374	3	63		SW	001	Q	4	2475	, 001		54

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
375	3	64	EFOUT EFOUT	BCE	INOTN, 0&X2, I	Q	8	2479	B Q33 0!0 I	MACRO GEN GEN GEN GEN	54
376	3	65		BCE	AOUT, 0&X2, A	Q	8	2487	B 41Z 0!0 A		54
377	3	66		BFLTW	MLC, @0|0@, FLTWD	Q					
378				MLC		Q	1	2495	M		
379				DC	@0|0@	Q	3	2498			
380				DC	@;0@ 11-6-8, 0	Q	2	2500			
381				DC	0	Q	1	2501			
382	3	67		MCW		Q	1	2502	M		
383	3	68		SBR	XL1	Q	4	2503	H 089		
384	3	69		SW	0&X1	Q	4	2507	, 0|0		
385	3	70	A	WD, XL3	Q	7	2511	A 0!6 099			
386	3	71	SBR	FINS-1, 2&X3	Q	7	2518	H A45 0?2			
387	3	72	MLC	@0.0@	Q	4	2525	M 27|			
388	3	73	SW	2&X3	Q	4	2529	, 0?2			
389	3	74	BCE	EFTI, 1&X1, 0	Q	8	2533	B N49 0|1 0			
390	3	75	BFLTW	BWZ, FOVFL, FLTWD, -2, 2	Q				MACRO		
391			BWZ		Q	1	2541	V	GEN	56	
392			DC	FOVFL	Q	3	2544	O74	GEN	56	
393			DC	@;0@ 11-6-8, 0	Q	2	2546		GEN	56	
394			DC	-2	Q	1	2547		GEN	56	
395			DC	2	Q	1	2548		GEN	56	
396	3	76	EFTI	BCE	*&12, 0&X2, E	Q	8	2549	B N68 0!0 E		
397	3	77		BFLTW	A, PCTR, FLTWD	Q				MACRO	
398				A		Q	1	2557	A	GEN	57
399				DC	PCTR	Q	3	2560	L27	GEN	57
400				DC	@;0@ 11-6-8, 0	Q	2	2562		GEN	57
401				DC	0	Q	1	2563		GEN	57
402	3	78		B	*&8	Q	4	2564	B N75		
403	3	79		BFLTW	S, PCTR, FLTWD	Q				MACRO	
404				S		Q	1	2568	S	GEN	57
405				DC	PCTR	Q	3	2571	L27	GEN	57
406			DC	@;0@ 11-6-8, 0	Q	2	2573		GEN	57	
407			DC	0	Q	1	2574		GEN	57	
408	3	80	AFLTW	MLNS, FLTWD, , ECON	Q				MACRO		
409			MLNS		Q	1	2575	D	GEN	57	
410			DC	@;0@ 11-6-8, 0	Q	2	2577		GEN	57	
411			DC	0	Q	1	2578		GEN	57	
412			DC	ECON	Q	3	2581	F54	GEN	57	
413	3	81	MN		Q	1	2582	D		57	
414	3	82	AFLTW	MLC, FLTWD	Q				MACRO		
415			MLC		Q	1	2583	M	GEN	57	
416			DC	@;0@ 11-6-8, 0	Q	2	2585		GEN	57	
417			DC	0	Q	1	2586		GEN	57	
418	3	83	BCE	FTYP, 0&X2, F	Q	8	2587	B P04 0!0 F		57	
419	3	84	C	ECON, ZERO4-2	Q	7	2595	C F54 B68		58	
420	3	85	BE	*&9	Q	5	2602	B 015 S		58	
421	3	86	BWZ	*&8, ECON-2, K	Q	8	2607	V 022 F52 K		58	
422	3	87	MLZS	NOZN, ECON-2	Q	7	2615	Y B66 F52		58	
423	3	88	BFLTW	ZA, PCTR, FLTWD	Q				MACRO		
424			ZA		Q	1	2622	?	GEN	58	

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
425				DC	PCTR	Q	3	2625	L27	GEN	58
426				DC	@;0@ 11-6-8,0	Q	2	2627		GEN	58
427				DC	0	Q	1	2628		GEN	58
428	3	89	UPX1	AFLTW	MLNS,FLTWD,,*&8	Q				MACRO	
429			UPX1	MLNS		Q	1	2629	D	GEN	58
430				DC	@;0@ 11-6-8,0	Q	2	2631		GEN	58
431				DC	0	Q	1	2632		GEN	58
432				DC	*&8	Q	3	2635	O43	GEN	59
433	3	90		MN		Q	1	2636	D		59
434	3	91		SBR	X1, XXX&X1	Q	7	2637	H 089 0|0		59
435	3	92		ZA	837,POINT CHANGE IF ARITH REASSEMBLED	Q	7	2644	? 837 24X		59
436	3	93		S	DOPRT,POINT	Q	7	2651	S E09 24X		59
437	3	94		BFLTW	C,POINT,FLTWD	Q				MACRO	
438				C		Q	1	2658	C	GEN	60
439				DC	POINT	Q	3	2661	24X	GEN	60
440				DC	@;0@ 11-6-8,0	Q	2	2663		GEN	60
441				DC	0	Q	1	2664		GEN	60
442	3	95		BH	INTEG	Q	5	2665	B P28 U		60
443	3	96		B	OK1	Q	4	2670	B P97		60
444	3	97	FOVFL	MLC	@ X @,2&X3	Q	7	2674	M 27T 0?2		60
445	3	98		MLC		Q	1	2681	M		60
446	3	99		SBR	X3,2&X3	Q	7	2682	H 099 0?2		60
447	4	00		SBR	FINSI-1	Q	4	2689	H A53		60
448	4	01		A	D, X3	Q	7	2693	A 0!9 099		61
449	4	02		B	CWMKS	Q	4	2700	B A38		61
450	4	03	FTYP	BM	NEGX,ECON-2	Q	8	2704	V P66 F52 K		61
451	4	04		C	WD, ECON	Q	7	2712	C 0!6 F54		61
452	4	05		BL	UPX1	Q	5	2719	B 029 T		61
453	4	06		B	FOVFL	Q	4	2724	B 074		61
454	4	07	INTEG	S	23	Q	4	2728	S 023		61
455	4	08		AFIXW	MCM,FIXWD,&1,001	Q				MACRO	
456				MCM		Q	1	2732	P	GEN	62
457				DC	@_0@ 11-7-8,0	Q	2	2734		GEN	62
458				DC	&1	Q	1	2735		GEN	62
459				DC	001	Q	3	2738		GEN	62
460	4	09		MLC	ZERO4	Q	4	2739	M B70		62
461	4	10		MZ		Q	1	2743	Y		62
462	4	11		MLC	ECON,X1	Q	7	2744	M F54 089		62
463	4	12		MLC	ZERO4-3	Q	4	2751	M B67		62
464	4	13		MLC	GMK,3&X1	Q	7	2755	M 28W 0|3		62
465	4	14		B	OK1	Q	4	2762	B P97		62
466	4	15	NEGX	MZ	NOZN,0&X1	Q	7	2766	Y B66 0|0		63
467	4	16		C	D,ECON	Q	7	2773	C 0!9 F54		63
468	4	17		BU	BRHI	Q	5	2780	B P92 /		63
469	4	18		AFIXW	C,FIXWD,&1,FIVE	Q				MACRO	
470				C		Q	1	2785	C	GEN	63
471				DC	@_0@ 11-7-8,0	Q	2	2787		GEN	63
472				DC	&1	Q	1	2788		GEN	63
473				DC	FIVE	Q	3	2791	24Y	GEN	63
474	4	19	BRHI	BH	MVDAT	Q	5	2792	B Q65 U		63

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE CARD
475	4	20	OK1	AFLTW	MLZS,FLTWD,-2,@0 0@	Q		MACRO
476			OK1	MLZS		Q 1	2797	GEN 63
477				DC	@;0@ 11-6-8,0	Q 2	2799	GEN 63
478				DC	-2	Q 1	2800	GEN 63
479				DC	@0|0@	Q 3	2803	GEN 63
480	4	21		B	MVDAT	Q 4	2804	B Q65 64
481	4	22	CKOVF	SBR	OVFEX&3	Q 4	2808	H Q32 64
482	4	23		C	TUMUCH,X3	Q 7	2812	C 25T 099 64
483	4	24		BL	OVFEX	Q 5	2819	B Q29 T 64
484	4	25		NOP	3700	Q 4	2824	N G00 64
485	4	26		H		Q 1	2828	. 64
486	4	27	OVFEX	B	XXX	Q 4	2829	B 000 64
487	4	28	INOTN	BFIKW	MLC,@0|0@,FIXWD	Q		MACRO
488			INOTN	MLC		Q 1	2833	M GEN 65
489				DC	@0|0@	Q 3	2836	GEN 65
490				DC	@_0@ 11-7-8,0	Q 2	2838	GEN 65
491				DC	0	Q 1	2839	GEN 65
492	4	29		A	W, XL3	Q 7	2840	A 0!6 099 65
493	4	30		MCW	W, XL1	Q 7	2847	M 0!6 089 65
494	4	31		AFIXW	ZA,FIXWD,,@0|0@	Q		MACRO
495				ZA		Q 1	2854	? GEN 65
496				DC	@_0@ 11-7-8,0	Q 2	2856	GEN 65
497				DC	0	Q 1	2857	GEN 65
498				DC	@0|0@	Q 3	2860	GEN 65
499	4	32		B	SBRX3	Q 4	2861	B J37 65
500	4	33	MVDAT	MCS	0&X1,0&X3	Q 7	2865	Z 0|0 0?0 65
501	4	34		SBR	SAVE&6	Q 4	2872	H R58 66
502	4	35		MLNS	0&X1,0&X3	Q 7	2876	D 0|0 0?0 66
503	4	36		SBR	MCS&3,0&X3	Q 7	2883	H A90 0?0 66
504	4	37		SBR	FINSI-1	Q 4	2890	H A53 66
505	4	38	JOE4	SW	XXX	Q 4	2894	, 000 66
506	4	39		BWZ	BACK,0&X1,K	Q 8	2898	V R10 0|0 K 66
507	4	40		B	SAVE	Q 4	2906	B R52 66
508	4	41	BACK	BCE	EXIT,0&X3, BLANK	Q 8	2910	B R34 0?0 67
509	4	42		SBR	X3	Q 4	2918	H 099 67
510	4	43		BW	SAVE,1&X3 NO ROOM FOR SIGN	Q 8	2922	V R52 0?1 1 67
511	4	44		B	BACK	Q 4	2930	B R10 67
512	4	45	EXIT	MLZS	MINUS,0&X3	Q 7	2934	Y G89 0?0 67
513	4	46		SW	1&X3	Q 4	2941	, 0?1 67
514	4	47		SBR	FINSI-1,1&X3	Q 7	2945	H A53 0?1 68
515	4	48	SAVE	SBR	X3,111 DUMMY ADDRESS	Q 7	2952	H 099 111 68
516	4	49		BCE	FINS,0&X2,I	Q 8	2959	B A46 0!0 I 68
517	4	50		A	D,X3	Q 7	2967	A 0!9 099 68
518	4	51		BCE	JUMPF,0&X2,F	Q 8	2974	B R93 0!0 F 68
519	4	52		MLNS	0&X3	Q 4	2982	D 0?0 69
520	4	53		MLNS		Q 1	2986	D 69
521	4	54		MLNS		Q 1	2987	D 69
522	4	55		MLNS		Q 1	2988	D 69
523	4	56		SBR	X3	Q 4	2989	H 099 69
524	4	57	JUMPF	SBR	OVR1&6,1&X3	Q 7	2993	H ?88 0?1 69

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
525	4	58		S	1&X3	Q	4	3000	S 0?1		69
526	4	59		MLNS		Q	1	3004	D		70
527	4	60		SAR	X3	Q	4	3005	Q 099		70
528	4	61		BCE	MDIG,0&X2,E	Q	8	3009	B ?44 0!0 E		70
529	4	62		BWZ	MDIG,ECON-2,B	Q	8	3017	V ?44 F52 B		70
530	4	63		C	D,ECON	Q	7	3025	C 0!9 F54		70
531	4	64		BH	OVR1	Q	5	3032	B ?82 U		70
532	4	65		A	ECON,X3	Q	7	3037	A F54 099		71
533	4	66	MDIG	BCE	OVR1,3&X1,}	Q	8	3044	B ?82 0|3 }	GMARK	71
534	4	67		MLNS	1&X1,2&X3	Q	7	3052	D 0|1 0?2		71
535	4	68		SBR	X1,1&X1	Q	7	3059	H 089 0|1		71
536	4	69		BWZ	OVR1,2&X3,B	Q	8	3066	V ?82 0?2 B		71
537	4	70		SBR	X3	Q	4	3074	H 099		72
538	4	71		B	MDIG	Q	4	3078	B ?44		72
539	4	72	OVR1	SBR	X3,XXX	Q	7	3082	H 099 000		72
540	4	73		BAV	*&1	Q	5	3089	B ?94 Z		72
541	4	74		A	ECON-3,0&X3	Q	7	3094	A F51 0?0		72
542	4	75		MLC	NOZN,0&X3	Q	7	3101	M B66 0?0		72
543	4	76		BCE	CWMKS-5,0&X2,F	Q	8	3108	B A33 0!0 F		73
544	4	77		SBR	X3,4&X3	Q	7	3116	H 099 0?4		73
545	4	78		MLNS	0&X3	Q	4	3123	D 0?0		73
546	4	79		MCW	ECON	Q	4	3127	M F54		73
547	4	80		MZ		Q	1	3131	Y		73
548	4	81		MCW		Q	1	3132	M		73
549	4	82		BAV	ARRAV	Q	5	3133	B A66 Z		73
550	4	83	CWMKS	AFIXW	CW, FIXWD	Q				MACRO	
551			CWMKS	CW		Q	1	3138	)	GEN	74
552				DC	@_0@	Q	2	3140		GEN	74
553				DC	0	Q	1	3141		GEN	74
554	4	84		CW	XXX	Q	4	3142	) 000		74
555	4	85	FINS	CW	000	Q	4	3146	) 000		74
556	4	86		CW	XXX	Q	4	3150	) 000		74
557	4	87	FINSI	AFIXW	SW, FIXWD, &1	Q				MACRO	
558			FINSI	SW		Q	1	3154	,	GEN	74
559				DC	@_0@	Q	2	3156		GEN	74
560				DC	&1	Q	1	3157		GEN	74
561	4	88		B	CKOVF	Q	4	3158	B Q08		74
562	4	89		B	DCRPB	Q	4	3162	B L96		74
563	4	90	ARRAV	MLC	FINS-1,X1	Q	7	3166	M A45 089		75
564	4	91		MLZS	NOZN,0&X1	Q	7	3173	Y B66 0|0		75
565	4	92		MLC		Q	1	3180	M		75
566	4	93		A		Q	1	3181	A		75
567	4	94		BAV	OVR9S	Q	5	3182	B A95 Z		75
568	4	95	MCS	MCS	0	Q	4	3187	Z 000		75
569	4	96		B	CWMKS	Q	4	3191	B A38		75
570	4	97	OVR9S	MN	0&X1	Q	4	3195	D 0|0		76
571	4	98		C		Q	1	3199	C		76
572	4	99		MN		Q	1	3200	D		76
573	5	00		SBR	X1	Q	4	3201	H 089		76
574	5	01		C	FINS&3,X1	Q	7	3205	C A49 089		76

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE CARD
575	5	02		BL	CLEAR	Q	5 3212	B B44 T 76
576	5	03		SW	0&X1	Q	4 3217	, 0|0 76
577	5	04		MLC	1&X1,0&X1	Q	7 3221	M 0|1 0|0 77
578	5	05		CW		Q	1 3228	) 77
579	5	061		LCA	@10@,2&X1	V3M4 Q	7 3229	L 27V 0|2 77
580	5	062		CW	1&X1	V3M4 Q	4 3236	) 0|1 77
581	5	07		B	CWMKS	Q	4 3240	B A38 77
582	5	08	CLEAR	MLC	1&X3,0&X3	Q	7 3244	M 0?1 0?0 77
583	5	09		MLC		Q	1 3251	M 77
584	5	10		MLC		Q	1 3252	M 78
585	5	11		MLC	@ X @,3&X1	Q	7 3253	M 27T 0|3 78
586	5	12		B	CWMKS	Q	4 3260	B A38 78
587	5	13		DCW	1	Q	1 3264	78
588	5	14		DCW	@.@	Q	1 3265	78
589	5	15	NOZN	DCW	@ @	Q	1 3266	78
590	5	16	ZERO4	DCW	0000	Q	4 3270	78
591	5	17	INI	MLC	X1,X3	Q	7 3271	M 089 099 79
592	5	18		MLZS	ZAFLT,*&8	Q	7 3278	Y 07X B92 79
593	5	19		BFIXW	MLNS,@0?0@,FIXWD,&1	Q		MACRO 79
594				MLNS		Q	1 3285	D GEN 79
595				DC	@0?0@	Q	3 3288	GEN 79
596				DC	@_0@ 11-7-8,0	Q	2 3290	GEN 79
597				DC	&1	Q	1 3291	GEN 79
598	5	20		ZA		Q	1 3292	? 79
599	5	21		MLC	URZRO&6,X1	Q	7 3293	M 16/ 089 79
600	5	22		AFIXW	MLCWA,FIXWD,,@0|0@	Q		MACRO 79
601				MLCWA		Q	1 3300	L GEN 79
602				DC	@_0@ 11-7-8,0	Q	2 3302	GEN 79
603				DC	0	Q	1 3303	GEN 79
604				DC	@0|0@	Q	3 3306	GEN 79
605	5	23		B	MRWM	Q	4 3307	B 17| 80
606	5	24	HLTGO	NOP	4002	Q	4 3311	N 00S 80
607	5	25		H		Q	1 3315	. 80
608	5	26	RDITP	SW	INSW	Q	4 3316	, 25| 80
609	5	27	RD2	CS	332	Q	4 3320	/ 332 80
610	5	28		CS		Q	1 3324	/ 80
611	5	29		B	TPCMND	Q	4 3325	B C88 80
612	5	30	CMBCK	BEF	HLTGO	Q	5 3329	B C11 K 81
613	5	31		BCE	TPCMND,12&X3,}	Q	8 3334	B C88 0A2 } GMARK 81
614	5	32		CHAIN	12	Q		MACRO 81
615				BCE		Q	1 3342	B GEN 81
616				BCE		Q	1 3343	B GEN 81
617				BCE		Q	1 3344	B GEN 81
618				BCE		Q	1 3345	B GEN 81
619				BCE		Q	1 3346	B GEN 81
620				BCE		Q	1 3347	B GEN 82
621				BCE		Q	1 3348	B GEN 82
622				BCE		Q	1 3349	B GEN 82
623				BCE		Q	1 3350	B GEN 82
624				BCE		Q	1 3351	B GEN 82

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
625				BCE		Q	1	3352	B	GEN	82
626				BCE		Q	1	3353	B	GEN	82
627	5	33		B	FMAIN	Q	4	3354	B Z28		83
628	5	34		B	RD2	Q	4	3358	B C20		83
629	5	35	WTM	MLNS	FMTZON, *&4	Q	7	3362	D J36 C72		83
630	5	36		WTM	0	Q	5	3369	U %U0 M		83
631	5	37		NOP	4003	Q	4	3374	N 00T		83
632	5	38		H		Q	1	3378	.		83
633	5	39	WT2	CS	332	Q	4	3379	/ 332		83
634	5	40		CS		Q	1	3383	/		84
635	5	41		B	FMAIN	Q	4	3384	B Z28		84
636	5	42	TPCMND	MLNS	FMTZON, IO&3	Q	7	3388	D J36 D41		84
637	5	43		MLC	@R@, IO&7	Q	7	3395	M 27W D45		84
638	5	44		ZA	@R@, POINT	Q	7	3402	? 27W 24X		84
639	5	45		BW	SVGMK, INSW	Q	8	3409	V D31 25| 1		84
640	5	46		MLC	@W@, IO&7	Q	7	3417	M 27X D45		85
641	5	47		A	&41, POINT	Q	7	3424	A 27Z 24X		85
642	5	48	SVGMK	MLCWA	GMK, 333	Q	7	3431	L 28W 333		85
643	5	49	IO	RT	0, 0&X3	Q	8	3438	M %U0 0?0 R		85
644	5	50		MLCWA	FORMAT, 333	Q	7	3446	L W97 333		85
645	5	51		BER	TPERR	Q	5	3453	B E95 L		86
646	5	52		BCE	CMBCK, IO&7, R	Q	8	3458	B C29 D45 R		86
647	5	53		BEF	WTM	Q	5	3466	B C62 K		86
648	5	54		B	WT2	Q	4	3471	B C79		86
649	5	55	PRINT	CS	333	Q	4	3475	/ 333		86
650	5	56		CS		Q	1	3479	/		86
651	5	57		B	FMAIN	Q	4	3480	B Z28		86
652	5	58	PRZRO	BCE	DOPRT, 200,	Q	8	3484	B E09 200		87
653	5	59		BCE	SPACE, 200, 0	Q	8	3492	B E24 200 0		87
654	5	60		MN	200, *&2	Q	7	3500	D 200 E08		87
655	5	61		CC	0	Q	2	3507	F 0		87
656	5	62	DOPRT	W		Q	1	3509	2		87
657	5	63		BCV	*&5	Q	5	3510	B E19 @		87
658	5	64		B	PRINT	Q	4	3515	B D75		87
659	5	65		CCB	PRINT, 1	Q	5	3519	F D75 1		88
660	5	66	SPACE	CCB	DOPRT, J	Q	5	3524	F E09 J		88
661	5	67	PUNCH	MLC	@281@, TUMUCH	Q	7	3529	M 28S 25T		88
662	5	68		CS	FMAIN, 285	Q	7	3536	/ Z28 285		88
663	5	69		SW	200	Q	4	3543	, 200		88
664	5	70		LCA	279, 180	Q	7	3547	L 279 180		88
665	5	71		P		Q	1	3554	4		88
666	5	72		SSB	PUNCH, 4	Q	5	3555	K E29 4		89
667	5	73	READC	CS	80	Q	4	3560	/ 080		89
668	5	74		MLC	@281@, TUMUCH	Q	7	3564	M 28S 25T		89
669	5	75		SW	1, INSW	Q	7	3571	, 001 25|		89
670	5	76	ONE	R		Q	1	3578	1		89
671	5	77		LCA	80, 279	Q	7	3579	L 080 279		89
672	5	78		SSB	FMAIN, 1	Q	5	3586	K Z28 1		89
673	5	79		B	READC	Q	4	3591	B E60		90
674	5	80	TPERR	MLNS	FMTZON, BSPTP&3	Q	7	3595	D J36 F12		90

BLANK

OBJECT TIME FORMAT						5054C		PAGE		14	
SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
675	5	81		MLNS	FMTZON,SKP&3	Q	7	3602	D J36 F25		90
676	5	82	BSPTP	BSP	0	Q	5	3609	U %U0 B		90
677	5	83		BCE	*&6,IO&7,R	Q	8	3614	B F27 D45 R		90
678	5	84	SKP	SKP	0	Q	5	3622	U %U0 E		90
679	5	85		S	ONE,POINT	Q	7	3627	S E78 24X		91
680	5	86		BWZ	SVGMK,POINT,B	Q	8	3634	V D31 24X B		91
681	5	87		NOP	1111	Q	4	3642	N /11		91
682	5	88		H		Q	1	3646	.		91
683	5	89		B	TPCMND	Q	4	3647	B C88		91
684	5	90		DCW	@F@	Q	1	3651			91
685	5	91		DCW	@ @	Q	1	3652			91
686	5	92	ECON	DCW	00	Q	2	3654			92
687	5	93	INEFI	SW	0&X3	Q	4	3655	, 0?0		92
688	5	94		MLC	X1,URZRO&6	Q	7	3659	M 089 16/		92
689	5	95		MLC	X3,X1	Q	7	3666	M 099 089		92
690	5	96		A	WD,X1	Q	7	3673	A 0!6 089		92
691	5	97		BCE	OUTQ,0&X2,I	Q	8	3680	B G03 0!0 I		92
692	5	98		BCE	OUTQA,0&X2,A	Q	8	3688	B 39| 0!0 A		93
693	5	99		A	D,X1	Q	7	3696	A 0!9 089		93
694	6	00	OUTQ	SW	0&X1	Q	4	3703	, 0|0		93
695	6	01		SBR	MRWM&3,0&X1	Q	7	3707	H 17T 0|0		93
696	6	02		AFLTW	S,FLTWD	Q				MACRO	
697				S		Q	1	3714	S	GEN	93
698				DC	@;0@ 11-6-8,0	Q	2	3716		GEN	93
699				DC	0	Q	1	3717		GEN	93
700	6	03		S		Q	1	3718	S		93
701	6	031		BFLTW	MLZS,NOZN,FLTWD,-2	V3M4	Q			MACRO	
702				MLZS		Q	1	3719	Y	GEN	93
703				DC	NOZN	Q	3	3722	B66	GEN	93
704				DC	@;0@ 11-6-8,0	Q	2	3724		GEN	93
705				DC	-2	Q	1	3725		GEN	93
706	6	032	SCNBL	MLZS	PLUS4,ZAFLT	V3M4	Q	7	3726	Y G97 07X	94
707	6	044		BCE	BLANK, 0&X3, BLANK	V3M4	Q	8	3733	B G73 0?0	94
708	6	054		BCE	MINUS,0&X3,-	V3M4	Q	8	3741	B G89 0?0 -	94
709	6	064		BCE	MINUS,0&X3,@ 4-8	V3M4	Q	8	3749	B G89 0?0 @	94
710	6	08		ZS	ZAFLT	V3M4	Q	4	3757	! 07X	94
711	6	09		BCE	KILL,0&X3,&	Q	8	3761	B G93 0?0 &		95
712	6	10		B	MV2WK	Q	4	3769	B H01		95
713	6	11	BLANK	BW	URZRO-8,1&X3	Q	8	3773	V 14X 0?1 1		95
714	6	12		B	SBRX3	Q	4	3781	B J37		95
715	6	13		B	SCNBL	Q	4	3785	B G26		95
716	6	131	MINUS	ZS	ZAFLT	V3M4	Q	4	3789	! 07X	95
717	6	14	KILL	SW	1&X3	Q	4	3793	, 0?1		95
718	6	154	PLUS4	B	SBRX3	V3M4	Q	4	3797	B J37	96
719	6	16	MV2WK	BCE	INI, 0&X2, I	Q	8	3801	B B71 0!0 I		96
720	6	17		BFIXW	SBR,089,FIXWD,-1	Q				MACRO	
721				SBR		Q	1	3809	H	GEN	96
722				DC	089	Q	3	3812		GEN	96
723				DC	@_0@ 11-7-8,0	Q	2	3814		GEN	96
724				DC	-1	Q	1	3815		GEN	96

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
725	6	18		BFLT	MLZS,NOZN,FLTWD,-2	Q				MACRO	
726				MLZS		Q	1	3816	Y	GEN	96
727				DC	NOZN	Q	3	3819	B66	GEN	96
728				DC	@;0@ 11-6-8,0	Q	2	3821		GEN	96
729				DC	-2	Q	1	3822		GEN	96
730	6	19		CW	SIGSW#1,SWB#1	Q	7	3823	) 28T 28U		96
731	6	20		CW	SWA#1	Q	4	3830	) 28V		96
732	6	21		S	XPN	Q	4	3834	S 23Y		97
733	6	22		BCE	ABEGN,0&X2,A	Q	8	3838	B 28| 0!0 A		97
734	6	23		B	LEWP2	Q	4	3846	B H96		97
735	6	24	PYNT1	SBR	POINT,0&X3	Q	7	3850	H 24X 0?0		97
736	6	25		SW	SWA	Q	4	3857	, 28V		97
737	6	26		BW	LEWP, SIGSW	Q	8	3861	V H76 28T 1		97
738	6	27		SBR	POINT, 1&X3	Q	7	3869	H 24X 0?1		98
739	6	28	LEWP	BW	OVR,1&X3	Q	8	3876	V 06S 0?1 1		98
740	6	29		BCE	OVR,1&X3,	Q	8	3884	B 06S 0?1		98
741	6	30		B	SBRX3	Q	4	3892	B J37		98
742	6	31	LEWP2	BCE	PYNT1,0&X3,.	Q	8	3896	B H50 0?0 .		98
743	6	32		C	0&X3,ZERO4-3	Q	7	3904	C 0?0 B67		99
744	6	33		BL	MVDIG	Q	5	3911	B 17Y T		99
745	6	34		BH	QFTYP	Q	5	3916	B I33 U		99
746	6	35		BW	MVDIG, SIGSW	Q	8	3921	V 17Y 28T 1		99
747	6	36		B	LEWP	Q	4	3929	B H76		99
748	6	37	QFTYP	BCE	FHLT,0&X2,F	Q	8	3933	B I86 0!0 F		99
749	6	38		SBR	END,4&X3	Q	7	3941	H 24/ 0?4		100
750	6	39		MLZS	PLUS,ZAEXP	Q	7	3948	Y I91 05/		100
751	6	40		BCE	PROCE, 0&X3, E	Q	8	3955	B I95 0?0 E		100
752	6	41	ZOND	MZ	0&X3, ZAEXP	Q	7	3963	Y 0?0 05/		100
753	6	42		FBCEQ	GRAB, 0&X3, &,-	Q				MACRO	
754				BCE	GRAB, 0&X3, &	Q	8	3970	B 02X 0?0 & GEN		100
755				BCE	GRAB, 0&X3, -	Q	8	3978	B 02X 0?0 - GEN		101
756	6	43	FHLT	NOP	1121	Q	4	3986	N /21		101
757	6	44		H		Q	1	3990	.		101
758	6	45	PLUS	B	FHLT	Q	4	3991	B I86		101
759	6	46	PROCE	BWZ	HERE,1&X3,2	Q	8	3995	V 01/ 0?1 2		101
760	6	47		B	SBRX3	Q	4	4003	B J37		101
761	6	48		B	ZOND	Q	4	4007	B I63		101
762	6	49	HERE	BCE	*&5,1&X3,	Q	8	4011	B 02T 0?1		102
763	6	50		B	*&5	Q	4	4019	B 02X		102
764	6	51		B	SBRX3	Q	4	4023	B J37		102
765	6	52	GRAB	SW	1&X3	Q	4	4027	, 0?1		102
766	6	53	MV2WM	BW	ZAEXP, 2&X3	Q	8	4031	V 05/ 0?2 1		102
767	6	54		BCE	ZAEXP,2&X3,	Q	8	4039	B 05/ 0?2		102
768	6	55		SBR	X3	Q	4	4047	H 099		103
769	6	56	ZAEXP	ZA	1&X3, XPN	Q	7	4051	? 0?1 23Y		103
770	6	57		B	ZAFILT	Q	4	4058	B 07X		103
771	6	58	OVR	BCE	FHLT, 0&X2, E	Q	8	4062	B I86 0!0 E		103
772	6	59		SBR	END, 1&X3	Q	7	4070	H 24/ 0?1		103
773	6	60	ZAFILT	AFLT	ZA,FLTWD,-2	Q				MACRO	
774			ZAFILT	ZA		Q	1	4077	?	GEN	103

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
775				DC	@;0@ 11-6-8,0	Q	2	4079		GEN	103
776				DC	-2	Q	1	4080		GEN	103
777	6	61		BW	*&5, SIGSW	Q	8	4081	V 09T 28T 1		104
778	6	62		B	URZRO	Q	4	4089	B 15V		104
779	6	63		BW	NOSWT, SWA A. ACTUAL DECIMAL PT. IN DATA	Q	8	4093	V 11V 28V 1		104
780	6	64		S	D, END	Q	7	4101	S 0!9 24/		104
781	6	65		ZA	END, POINT	Q	7	4108	? 24/ 24X		104
782	6	66	NOSWT	S	POINT, MSD	Q	7	4115	S 24X 24U		105
783	6	67		A	PCTR,XPN	Q	7	4122	A L27 23Y		105
784	6	68		ZS	MSD	Q	4	4129	! 24U		105
785	6	69		A	MSD,XPN	Q	7	4133	A 24U 23Y		105
786	6	70		BFLTW	ZA,XPN,FLTWD	Q				MACRO	
787				ZA		Q	1	4140	?	GEN	105
788				DC	XPN	Q	3	4143	23Y	GEN	105
789				DC	@;0@ 11-6-8,0	Q	2	4145		GEN	105
790				DC	0	Q	1	4146		GEN	105
791	6	71		BCE	INI,0&X2,I	Q	8	4147	B B71 0!0 I		106
792	6	72	URZRO	AFLTW	MLC,FLTWD,,XXX	Q				MACRO	
793			URZRO	MLC		Q	1	4155	M	GEN	106
794				DC	@;0@ 11-6-8,0	Q	2	4157		GEN	106
795				DC	0	Q	1	4158		GEN	106
796				DC	XXX	Q	3	4161	000	GEN	106
797	6	73		LCA		Q	1	4162	L		106
798	6	74		MLC	MRWM&3,X3	Q	7	4163	M 17T 099		106
799	6	75	MRWM	CW	XXX	Q	4	4170	) 000		106
800	6	76		B	FINSI	Q	4	4174	B A54		106
801	6	77	MVDIG	BW	*&12, SIGSW	Q	8	4178	V 19X 28T 1		106
802	6	78		SBR	MSD, 0&X3	Q	7	4186	H 24U 0?0		107
803	6	79		SW	SIGSW	Q	4	4193	, 28T		107
804	6	80		BW	LEWP, SWB	Q	8	4197	V H76 28U 1		107
805	6	81		MN	0&X3, 2&X1	Q	7	4205	D 0?0 0|2		107
806	6	82		SBR	X1	Q	4	4212	H 089		107
807	6	83		SW	SWB	Q	4	4216	, 28U		107
808	6	84		BCE	LEWP,4&X1,}	Q	8	4220	B H76 0|4 }	GMARK	108
809	6	85		CW	SWB	Q	4	4228	) 28U		108
810	6	86		B	LEWP	Q	4	4232	B H76		108
811	6	87	XPN	DCW	#3	Q	3	4238			108
812	6	88	END	DCW	#3	Q	3	4241			108
813	6	89	MSD	DCW	#3	Q	3	4244			108
814	6	90	POINT	DCW	#3	Q	3	4247			108
815	6	91	FIVE	DCW	@5@	Q	1	4248			109
816	6	92	LKHED	DC	#1	Q	1	4249			109
817	6	93		LTORG	*	Q			4250		
			INSW Q	DCW	#01	Q	1	4250		AREA	109
			TUMUCH	DCW	#03	Q	3	4253		AREA	109
			BUCKTQ	DCW	#03	Q	3	4256		AREA	109
			GMKHDQ	DCW	#01	Q	1	4257		AREA	109
			GMKSWQ	DCW	#01	Q	1	4258		AREA	109
			RTPA Q	DCW	#03	Q	3	4261		AREA	109
			SAVE1Q	DCW	#03	Q	3	4264		AREA	110

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			RPTB	Q	DCW #03	Q	3	4267		AREA	110
					DCW @0.0@	Q	3	4270		LIT	110
					DCW @ X @	Q	3	4273		LIT	110
					DCW @10@	Q	2	4275		LIT	110
					DCW @R@	Q	1	4276		LIT	110
					DCW @W@	Q	1	4277		LIT	110
					DCW &41	Q	2	4279		LIT	111
					DCW @281@	Q	3	4282		LIT	111
			SIGSWQ		DCW #01	Q	1	4283		AREA	111
			SWB	Q	DCW #01	Q	1	4284		AREA	111
			SWA	Q	DCW #01	Q	1	4285		AREA	111
818	5	94	GMK		DCW @}@	Q	1	4286		GMARK	111
819	6	95	W		EQU 6&X2	Q		0006	X		
820	6	96	WD		EQU 6&X2	Q		0006	X		
821	6	97	D		EQU 9&X2	Q		0009	X		
822	6	98	XXX		EQU 0	Q		0000			
823	6	99	XL1		EQU 089	Q		0089			
824	7	00	XL2		EQU 094	Q		0094			
825	7	01	XL3		EQU 099	Q		0099			
826	7	02	OBLIST		EQU 912	Q		0912			
827	7	03	CEXIT		EQU 988	Q		0988			
828	7	04			XFR CWFIO	Q			B 982		112

GROUP MARK

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
829	7	05		JOB	A FORMAT	Q					
830	7	06		ORG	4280	Q			4280		
831	7	07	ABEGN	BW	*&12,SIGSW	Q	8	4280	V 29Z 28T 1		115
832	7	08		SBR	MSD,0&X3	Q	7	4288	H 24U 0?0		115
833	7	09		SW	SIGSW	Q	4	4295	, 28T		115
834	7	10		BW	LEWPA,SWB	Q	8	4299	V 34/ 28U 1		115
835	7	11		MN	0&X3,2&X1	Q	7	4307	D 0?0 0|2		115
836	7	12		MZ	0&X3,2&X1	Q	7	4314	Y 0?0 0|2		116
837	7	13		SBR	X1	Q	4	4321	H 089		116
838	7	14		SW	SWB	Q	4	4325	, 28U		116
839	7	15		BCE	LEWPA,4&X1,}	Q	8	4329	B 34/ 0|4 }	GMARK	116
840	7	16		CW	SWB	Q	4	4337	) 28U		116
841	7	17	LEWPA	BW	OVRA,1&X3	Q	8	4341	V 35X 0?1 1		116
842	7	18		B	SBRX3	Q	4	4349	B J37		116
843	7	19		B	ABEGN	Q	4	4353	B 28|		117
844	7	20	OVRA	SBR	END,1&X3	Q	7	4357	H 24/ 0?1		117
845	7	21		MCW	URZRO&6,NEXTA&6	Q	7	4364	M 16/ 37X		117
846	7	22	NEXTA	MCW	0,0	Q	7	4371	M 000 000		117
847	7	23		LCA		Q	1	4378	L		117
848	7	24		MLC	MRWM&3,X3	Q	7	4379	M 17T 099		117
849	7	25		B	FINSI	Q	4	4386	B A54		117
850	7	26	OUTQA	BFLTW	MCW,BLK3,FLTWD	Q				MACRO	
851			OUTQA	MCW		Q	1	4390	M	GEN	118
852				DC	BLK3	Q	3	4393	57X	GEN	118
853				DC	@;0@ 11-6-8,0	Q	2	4395		GEN	118
854				DC	0	Q	1	4396		GEN	118
855	7	27		BFLTW	MCW,BLK20,FLTWD,-2	Q				MACRO	
856				MCW		Q	1	4397	M	GEN	118
857				DC	BLK20	Q	3	4400	59X	GEN	118
858				DC	@;0@ 11-6-8,0	Q	2	4402		GEN	118
859				DC	-2	Q	1	4403		GEN	118
860	7	28		SW	0&X1	Q	4	4404	, 0|0		118
861	7	29		SBR	MRWM&3,0&X1	Q	7	4408	H 17T 0|0		118
862	7	30		B	MV2WK	Q	4	4415	B H01		118
863	7	31	AOUT	MCW	EFOUT&6,NEXA&6	Q	7	4419	M N01 43S		118
864	7	32	NEXA	MCW	0,0	Q	7	4426	M 000 000		119
865	7	33		MCW		Q	1	4433	M		119
866	7	34		SBR	X1	Q	4	4434	H 089		119
867	7	35		SBR	TEMPX1#3,1&X1	Q	7	4438	H 60T 0|1		119
868	7	36		SBR	TEMPX3#3,0&X3	Q	7	4445	H 60W 0?0		119
869	7	37		MA	6&X2,TEMPX3	Q	7	4452	# 0!6 60W		119
870	7	38		SBR	TEMP32,1&X3	Q	7	4459	H 60| 0?1		120
871	7	39		MCW	NEXA&6,TFLTWD#3	Q	7	4466	M 43S 60Z		120
872	7	40		MA	@I9H@,TFLTWD	Q	7	4473	# 61S 60Z		120
873	7	41	MOVNUM	MN	1&X1,2&X3	Q	7	4480	D 0|1 0?2		120
874	7	42		MZ	1&X1,2&X3	Q	7	4487	Y 0|1 0?2		120
875	7	43		C	TEMP32,TEMPX3	Q	7	4494	C 60| 60W		121
876	7	44		BE	FINI1	Q	5	4501	B 55| S		121
877	7	45		C	TEMPX1,TFLTWD	Q	7	4506	C 60T 60Z		121
878	7	46		BE	FINI1	Q	5	4513	B 55| S		121

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
879	7	47		MA	@001@,TEMPX1	Q	7	4518	# 61V 60T		121
880	7	48		MA	@001@,TEMP32	Q	7	4525	# 61V 60|		121
881	7	49		SBR	X1,1&X1	Q	7	4532	H 089 0|1		122
882	7	50		SBR	X3,1&X3	Q	7	4539	H 099 0?1		122
883	7	51		B	MOVNUM	Q	4	4546	B 48|		122
884	7	52	FINI1	SBR	FINS&7,0&X3	Q	7	4550	H A53 0?0		122
885	7	53		MCW	TEMPX3,X3	Q	7	4557	M 60W 099		122
886	7	54		SBR	X3,2&X3	Q	7	4564	H 099 0?2		122
887	7	55		B	FINS	Q	4	4571	B A46		123
888	7	56	BLK3	DCW	#3	Q	3	4577			123
889	7	57	BLK20	DCW	#20	Q	20	4597			123
890	7	58	TEMP32	DCW	@ @	Q	3	4600			123
891	7	59		LTORG	*	Q			4601		
			TEMPX1	DCW	#03	Q	3	4603		AREA	123
			TEMPX3	DCW	#03	Q	3	4606		AREA	123
			TFLTWD	DCW	#03	Q	3	4609		AREA	123
				DCW	@I9H@	Q	3	4612		LIT	124
				DCW	@001@	Q	3	4615		LIT	124
892	7	60	GM54D	DCW	@}@	Q	1	4616		GMARK	124
893	7	61		XFR	CWAF	Q			B |51		125
894	7	62	*								
895	7	63	**		PLACE PRECEDING CARDS BETWEEN PHASES 53 AND 55						
896	7	64	*								
897	7	65		END		Q			/ 000 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ABEGNQ	4280	ADDR Q	2015	ALRDYQ	2031	AOUT Q	4419	ARRAVQ	3166	ARRTNQ	2109	ATESTQ	1005
BACK Q	2910	BBACKQ	1234	BLANKQ	3773	BLK20Q	4597	BLK3 Q	4577	BRHI Q	2792	BSPTPQ	3609
BUCKTQ	4256	CDAF Q	1047	CDLIOQ	1026	CDSYSQ	949	CEXITQ	988	CKOVFQ	2808	CLEARQ	3244
CLSPRQ	2185	CMBCKQ	3329	COUNTQ	2017	CWAF Q	1051	CWFIOQ	982	CWLIOQ	1030	CWMKSQ	3138
D Q	9+X2	DCRPBQ	2396	DECRAQ	2189	DOPRTQ	3509	ECON Q	3654	EFNTNQ	2439	EFOUTQ	2495
EFTI Q	2549	EJBOXQ	2271	ELL Q	2079	END Q	4241	EOJ1 Q	2223	EXIT Q	2934	EXITAQ	1141
FHLT Q	3986	FINI1Q	4550	FINS Q	3146	FINSIQ	3154	FIVE Q	4248	FMAINQ	1928	FMTXTQ	2132
FMTZON	2136	FOMATQ	934	FORMAT	1697	FOVFLQ	2674	FTYP Q	2704	FULIOQ	1088	GETADQ	1943
GETW Q	2385	GM54DQ	4616	GMK Q	4286	GMKHDQ	4257	GMKSWQ	4258	GMWM Q	1253	GPWDMK	2022
GRAB Q	4027	GTRTNQ	2431	GTXT Q	2003	HERE Q	4011	HLOUTQ	2340	HLTGOQ	3311	HOLINQ	2347
HOLLRQ	2328	INEFIQ	3655	INI Q	3271	INOTNQ	2833	INSW Q	4250	INTEGQ	2728	IO Q	3438
IO1 Q	1745	IO12 Q	1752	IO15 Q	1774	IO2 Q	1799	IO3 Q	1813	IO4 Q	1848	IO5 Q	1868
JOE4 Q	2894	JUMPFQ	2993	KILL Q	3793	LAST1Q	2204	LEWP Q	3876	LEWP2Q	3896	LEWPAQ	4341
LIST Q	1962	LKHEDQ	4249	LOC Q	2006	LOOP2Q	1832	MCS Q	3187	MDIG Q	3044	MINUSQ	3789
MLBOXQ	1968	MONTER	700	MONTOR	769	MOVNUM	4480	MRWM Q	4170	MSD Q	4244	MV2WKQ	3801
MV2WMQ	4031	MVAGNQ	1855	MVDATQ	2865	MVDIGQ	4178	NDLINQ	2208	NEGX Q	2766	NEXA Q	4426
NEXTAQ	4371	NOPBRQ	2298	NOPSWQ	2243	NOSWTQ	4115	NOZN Q	3266	NTESTQ	970	NTRAYQ	2046
OBLIST	912	OK1 Q	2797	ONE Q	3578	OPNPRQ	2152	OUT Q	1897	OUTPTQ	2219	OUTQ Q	3703
OUTQAQ	4390	OVFEXQ	2829	OVR Q	4062	OVR1 Q	3082	OVR9SQ	3195	OVRA Q	4357	PARAMA	686
PCTR Q	2327	PLUS Q	3991	PLUS4Q	3797	POINTQ	4247	PRINTQ	3475	PROCEQ	3995	PRZROQ	3484
PUNCHQ	3529	PYNT1Q	3850	QFTYPQ	3933	RD2 Q	3320	RDITPQ	3316	RDRTBQ	1916	RDRTNQ	1912
RDTAPQ	1738	READCQ	3560	REPEAT	2306	RET Q	1902	RMVZNQ	1973	RPTB Q	4267	RTPA Q	4261
RWT31Q	1928	RWT41Q	1967	RWT77Q	1983	RWT78Q	1990	SAVCHQ	2016	SAVE Q	2952	SAVE1Q	4264
SAVE2Q	1996	SAVX3Q	1999	SBRX3Q	2137	SCALEQ	2310	SCNBLQ	3726	SIGSWQ	4283	SKAIOQ	1013
SKFIOQ	1034	SKLIOQ	957	SKP Q	3622	SKPAFQ	1128	SKPF Q	1177	SKPL Q	1067	SPACEQ	3524
STARTQ	1697	STARTR	934	SVGMMQ	3431	SWA Q	4285	SWB Q	4284	TCLEAR	710	TEMP32	4600
TEMPX1	4603	TEMPX3	4606	TESTHQ	2332	TFLTWD	4609	TPAF Q	1194	TPCMND	3388	TPER Q	1211
TPERRQ	3595	TPLIOQ	1164	TPSYSQ	1059	TSTAFQ	1120	TUMUCH	4253	UNDUNQ	2007	UPX1 Q	2629
URZROQ	4155	W Q	6+X2	WD Q	6+X2	WRTAPQ	1917	WT2 Q	3379	WTM Q	3362	X1 Q	89
X2 Q	94	X3 Q	99	XL1 Q	89	XL2 Q	94	XL3 Q	99	XPN Q	4238	XXX Q	0
ZAEXPQ	4051	ZAFLTQ	4077	ZERO4Q	3270	ZOND Q	3963						