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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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FORTRAN COMPILER -- ARITH PHASE FOUR -- PHASE 36 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101			JOB		FORTRAN COMPILER -- ARITH PHASE FOUR -- PHASE 36						
102			CTL		6611						
103			*								
104			*		STRINGS GENERATED BY ARITH PHASE TWO ARE OPTIMIZED TO REDUCE						
105			*		THE NUMBER OF TEMPORARY STORAGE AREAS FOR EACH STATEMENT.						
106			*								
107			*		ON ENTRY, X1 IS THE TOP OF THE TOPMOST STATEMENT IN LOW CORE						
108			*		THAT IS NEITHER AN ASSIGNMENT NOR IF STATEMENT, X2 IS THE TOP						
109			*		OF THE TOPMOST STATEMENT IN HIGH CORE THAT IS NEITHER AN						
110			*		ASSIGNMENT NOR IF STATEMENT, X3 IS THE TOP OF THE PREFIX OF						
111			*		THE TOPMOST STATEMENT IN HIGH COORE THAT IS EITHER AN						
112			*		ASSIGNMENT OR IF STATEMENT, AND 81-83 IS THE GMWM ABOVE THE						
113			*		TOPMOST STATEMENT IN HIGH CORE.						
114			*								
115			X1	EQU	89			0089			
116			X2	EQU	94			0094			
117			X3	EQU	99			0099			
118			*								
119			*		STUFF IN THE RESIDENT AREA						
120			*								
121			PHASID	EQU	110			0110			
122			SAWNEG	EQU	123			0123			
123			SNAPSH	EQU	333			0333			
124			LOADNX	EQU	700			0700			
125			CLEARL	EQU	707			0707			
126			*								
127			*		RUNTIME ADDRESSES						
128			*								
129			ARITF	EQU	700			0700			
130			*								
131				ORG	838				0838		
132			LOADDD	EQU	*&1			0838			
133	838		BEGINN	BCE	DONE,X2,. .		8	0838	B R37 094 .		4
134	846			SW	GM		4	0846	, K40		4
135	850			SBR	SX3,0&X3		7	0850	H R62 0?0		4
136	857			SBR	X1,1&X1		7	0857	H 089 0|1		4
137	864			SBR	X2,1&X2		7	0864	H 094 0!1		4
138	871	LOOP		S	WRKTOP		4	0871	S N72		4
139	875			C	X2,SX3		7	0875	C 094 R62		5
140	882			BE	DONE		5	0882	B R37 S		5
141	887			MCW	KB4,3021		7	0887	M ?45 ?21		5
142	894			SBR	SX1,0&X1		7	0894	H R65 0|0		5
143	901	OUTER		MCW	KB4,OP2		7	0901	M ?45 R66		5
144	908			CW	FLAG		4	0908	) R36		5
145	912			B	SETUP		4	0912	B N73		6
146	916			BCE	TESTEQ,W18A-2,<		8	0916	B 974 ?61 <		6
147	924	MIDDLE		BCE	1166,W18B-2,<		8	0924	B /66 ?86 <		6

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148		932		BCE	1733,1&X2,}	8		0932	B X33 0!1 }	GMARK	6
149		940		BW	1302,FLAG	8		0940	V T02 R36 1		6
150		948	INNER	A	K3999,2972	7		0948	A R69 R72		7
151		955		MCW	2972,X3	7		0955	M R72 099		7
152		962		BCE	INNER,WORK&X3,1	8		0962	B 948 KD1 1		7
153		970		B	OUTER	4		0970	B 901		7
154		974	TESTEQ	BCE	MIDDLE,OP,#	8		0974	B 924 ?64 #		7
155		982		BCE	1328,OP,. WAS **	8		0982	B T28 ?64 .		8
156		990		B	2758	4		0990	B P58		8
157		996		DSA	W18A	3		0996	?63		8
158		997		B	2837	4		0997	B Q37		8
159	1	001		MN	KP1,WORK&X1	7		1001	D R73 KU1		8
160	1	008		LCA	0&X3,W35	7		1008	L 0?0 ?08		8
161	1	015		SAR	X1	4		1015	Q 089		8
162	1	019	MOVE13	C	X1,X2 MOVE	7		1019	C 089 094		9
163	1	026		BE	M13X 0&X1	5		1026	B |54 S		9
164	1	031		LCA	0&X1,0&X3 UP TO	7		1031	L 0|0 0?0		9
165	1	038		SAR	X1 0&X3	4		1038	Q 089		9
166	1	042		C	0&X3 UNTIL	4		1042	C 0?0		9
167	1	046		SAR	X3 X1 EQUAL X2	4		1046	Q 099		9
168	1	050		B	MOVE13	4		1050	B |19		9
169	1	054	M13X	C	0&X2	4		1054	C 0!0		10
170	1	058		SAR	X1	4		1058	Q 089		10
171	1	062		BW	2928,FLAG	8		1062	V R28 R36 1		10
172	1	070		BCE	1101,W18B,*	8		1070	B /01 ?88 *		10
173	1	078		BCE	1695,OP,#	8		1078	B W95 ?64 #		10
174	1	086		LCA	W18B,0&X3	7		1086	L ?88 0?0		10
175	1	093		SBR	X3	4		1093	H 099		11
176	1	097		CW	1&X3	4		1097	) 0?1		11
177	1	101		LCA	OP,0&X3	7		1101	L ?64 0?0		11
178	1	108		SBR	X3	4		1108	H 099		11
179	1	112		CW	1&X3	4		1112	) 0?1		11
180	1	116		LCA	W35,0&X3	7		1116	L ?08 0?0		11
181	1	123		SBR	X3	4		1123	H 099		11
182	1	127		SBR	X2	4		1127	H 094		12
183	1	131		LCA	0&X1,0&X3	7		1131	L 0|0 0?0		12
184	1	138		SAR	X1	4		1138	Q 089		12
185	1	142		C	0&X3	4		1142	C 0?0		12
186	1	146		SAR	X3	4		1146	Q 099		12
187	1	150		BCE	1162,1&X1,}	8		1150	B /62 0|1 }	GMARK	12
188	1	158		B	1131	4		1158	B /31		12
189	1	162		B	901	4		1162	B 901		13
190	1	166		BCE	1178,OP2,	8		1166	B /78 R66		13
191	1	174		B	1496	4		1174	B U96		13
192	1	178		BCE	1663,OP,#	8		1178	B W63 ?64 #		13
193	1	186		BCE	1214,OP,&	8		1186	B S14 ?64 &		13
194	1	194		BCE	1214,OP,*	8		1194	B S14 ?64 *		14
195	1	202		BCE	1239,OP,-	8		1202	B S39 ?64 -		14
196	1	210		B	1527	4		1210	B V27		14
197	1	214		LCA	W18A,W35 SWAP	7		1214	L ?63 ?08		14

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	1	221		LCA	W18B,W18A W18A	7	1221	L ?88 ?63			14
199	1	228		LCA	W35,W18B AND W18B	7	1228	L ?08 ?88			15
200	1	235		B	974	4	1235	B 974			15
201	1	239		BW	1379,FLAG	8	1239	V T79 R36 1			15
202	1	247		LCA	W18A,0&X2	7	1247	L ?63 0!0			15
203	1	254		LCA	KPLUS	4	1254	L ?09			15
204	1	258		SBR	X2	4	1258	H 094			15
205	1	262		CW	2&X2,SAWNEG	7	1262	) 0!2 123			16
206	1	269		LCA	W18B,W18A	7	1269	L ?88 ?63			16
207	1	276		LCA	KSTAR3,W18B	7	1276	L ?12 ?88			16
208	1	283		MCW	NOP,OP	7	1283	M ?13 ?64			16
209	1	290		CW	SAWNEG	4	1290	) 123			16
210	1	294		SW	FLAG	4	1294	, R36			16
211	1	298		B	974	4	1298	B 974			17
212			*								
213	1	302		BCE	1328,W18B,*	8	1302	B T28 ?88 *			17
214	1	310		MCW	OP,1324	7	1310	M ?64 T24			17
215	1	317		BCE	1391,3017,0	8	1317	B T91 ?17 0			17
216	1	325		B		1	1325	B			17
217	1	326		B		1	1326	B			17
218	1	327		B		1	1327	B			17
219	1	328		BW	*&5,FLAG	8	1328	V T40 R36 1			18
220	1	336		B	INNER	4	1336	B 948			18
221	1	340		B	1379	4	1340	B T79			18
222	1	344		BW	1360,2&X2	8	1344	V T60 0!2 1			18
223	1	352		SBR	X2	4	1352	H 094			18
224	1	356		B	1344	4	1356	B T44			18
225	1	360		SBR	X2,1&X2	7	1360	H 094 0!1			18
226	1	367		BCE	1733,1&X2,} GMARK	8	1367	B X33 0!1 } GMARK			19
227	1	375		B	INNER	4	1375	B 948			19
228			*								
229	1	379		SBR	1390	4	1379	H T90			19
230	1	383		CW	1&X2	4	1383	) 0!1			19
231	1	387		B	0	4	1387	B 000			19
232			*								
233	1	391		BCE	1403,OP2,	8	1391	B U03 R66			19
234	1	399		B	1440	4	1399	B U40			19
235	1	403		MCW	OP,OP2	7	1403	M ?64 R66			20
236	1	410		CW	1&X2	4	1410	) 0!1			20
237	1	414		LCA	W18B,0&X2	7	1414	L ?88 0!0			20
238	1	421		SBR	X2	4	1421	H 094			20
239	1	425		CW	KEEPWM	4	1425	) ?18			20
240	1	429		SBR	RWM1&3,1&X2 REMEMBER WHERE TO CLEAR WM	7	1429	H 017 0!1			20
241	1	436		B	908	4	1436	B 908			20
242	1	440		BCE	1476,OP2,&	8	1440	B U76 R66 &			21
243	1	448		BCE	1476,OP2,-	8	1448	B U76 R66 -			21
244	1	456		BCE	1410,OP,*	8	1456	B U10 ?64 *			21
245	1	464		BCE	1410,OP,/	8	1464	B U10 ?64 /			21
246	1	472		B	1328	4	1472	B T28			21
247	1	476		BCE	1410,OP,&	8	1476	B U10 ?64 &			22

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	1	484		BCE	1410,OP,-	8		1484	B U10 ?64 -		22
249	1	492		B	1328	4		1492	B T28		22
250	1	496		MCW	OP,1510	7		1496	M ?64 V10		22
251	1	503		BCE	1575,OP2,0	8		1503	B V75 R66 0		22
252	1	511		BCE	1555,OP2,&	8		1511	B V55 R66 &		23
253	1	519		BCE	1555,OP2,-	8		1519	B V55 R66 -		23
254	1	527		BCE	1733,1&X2,}	8		1527	B X33 0!1 }	GMARK	23
255	1	535		BW	1328,FLAG	8		1535	V T28 R36 1		23
256	1	543		BW	INNER,1&X2	8		1543	V 948 0!1 1		24
257	1	551		B	1328	4		1551	B T28		24
258	1	555		BCE	1575,OP,&	8		1555	B V75 ?64 &		24
259	1	563		BCE	1575,OP,-	8		1563	B V75 ?64 -		24
260	1	571		B	1527	4		1571	B V27		24
261	1	575		BCE	1328,OP,@	8		1575	B T28 ?64 @		25
262	1	583		BW	1379,FLAG	8		1583	V T79 R36 1		25
263	1	591		C	0&X2,KB4	7		1591	C 0!0 ?45		25
264	1	598		SAR	X3	4		1598	Q 099		25
265	1	602		MCW	0&X3,0&X2	7		1602	M 0?0 0!0		25
266	1	609		SBR	X2	4		1609	H 094		25
267	1	613		BCE	1644,OP,-	8		1613	B W44 ?64 -		26
268	1	621		MCW	OP,0&X2	7		1621	M ?64 0!0		26
269	1	628		MCW	W18B	4		1628	M ?88		26
270	1	632		C	0&X2	4		1632	C 0!0		26
271	1	636		SBR	X2	4		1636	H 094		26
272	1	640		B	901	4		1640	B 901		26
273	1	644		LCA	KPLUS,0&X2	7		1644	L ?09 0!0		26
274	1	651		SBR	X2	4		1651	H 094		27
275	1	655		SW	FLAG	4		1655	, R36		27
276	1	659		B	1269	4		1659	B S69		27
277	1	663		B	2758	4		1663	B P58		27
278	1	669		DSA	W18B	3		1669	?88		27
279	1	670		MCW	W18B,3021	7		1670	M ?88 ?21		27
280	1	677		MCW	3091,2972	7		1677	M ?91 R72		27
281	1	684		A	KP1,2972	7		1684	A R73 R72		28
282	1	691		B	997	4		1691	B 997		28
283	1	695		LCA	W35,0&X3	7		1695	L ?08 0?0		28
284	1	702		SBR	X2	4		1702	H 094		28
285	1	706		LCA	OP	4		1706	L ?64		28
286	1	710		SBR	X3	4		1710	H 099		28
287	1	714		CW	1&X3	4		1714	) 0?1		28
288	1	718		LCA	W18A,0&X3	7		1718	L ?63 0?0		29
289	1	725		LCA	GM	4		1725	L K40		29
290	1	729		B	901	4		1729	B 901		29
291	1	733		MCW	SX1,X1	7		1733	M R65 089		29
292	1	740		SBR	3024,0&X2	7		1740	H ?24 0!0		29
293	1	747		BCE	1887,2&X2,,	8		1747	B Y87 0!2 ,		29
294	1	755		BCE	1887,3019,<	8		1755	B Y87 ?19 <		30
295	1	763		BCE	1887,0&X2,\$	8		1763	B Y87 0!0 \$		30
296	1	771		BCE	1887,W18A,\$	8		1771	B Y87 ?63 \$		30
297	1	779		BM	1807,3062	8		1779	V Y07 ?62 K		30

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	1	787		BM	1887,3087	8		1787	V Y87 ?87 K		31
299	1	795		BWZ	1887,3087,S	8		1795	V Y87 ?87 S		31
300	1	803		B	1823	4		1803	B Y23		31
301	1	807		BWZ	1887,3087,2	8		1807	V Y87 ?87 2		31
302	1	815		BWZ	1887,3087,B	8		1815	V Y87 ?87 B		31
303	1	823		B	1887	4		1823	B Y87		32
304	1	827		LCA	W18A	4		1827	L ?63		32
305	1	831		LCA	W18B	4		1831	L ?88		32
306	1	835		LCA	LCA	4		1835	L ?25		32
307	1	839		SBR	X3	4		1839	H 099		32
308	1	843		CW	2&X3,5&X3	7		1843	) 0?2 0?5		32
309	1	850		MZ	1852,3&X3	7		1850	Y Y52 0?3		32
310	1	857		MZ	1859,6&X3	7		1857	Y Y59 0?6		33
311	1	864		SBR	X1,6&X1	7		1864	H 089 0|6		33
312	1	871		LCA	6&X2	4		1871	L 0!6		33
313	1	875		LCA		1		1875	L		33
314	1	876		SBR	X2,6&X2	7		1876	H 094 0!6		33
315	1	883		B	LOOP	4		1883	B 871		33
316	1	887		MCW	3027,3021	7		1887	M ?27 ?21		33
317	1	894		MCW	A001,X3	7		1894	M ?30 099		34
318	1	901		MCW	3027,3032	7		1901	M ?27 ?32		34
319	1	908		SBR	X1,4&X1	7		1908	H 089 0|4		34
320	1	915		LCA	BARITF&3	4		1915	L ?36		34
321	1	919		BCE	1963,WORK&X3,0	8		1919	B ?63 KD1 0		34
322	1	927		A	KP1,3032	7		1927	A R73 ?32		35
323	1	934		MCW	3032,3021	7		1934	M ?32 ?21		35
324	1	941		MZ	3031,3021	7		1941	Y ?31 ?21		35
325	1	948		A	KP1,X3	7		1948	A R73 099		35
326	1	955		SW	FLAG	4		1955	, R36		35
327	1	959		B	1919	4		1959	B ?19		35
328	1	963		LCA	ASSIGN,4&X1	7		1963	L ?37 0|4		36
329	1	970		LCA	3021	4		1970	L ?21		36
330	1	974		CW	4&X1	4		1974	) 0|4		36
331	1	978		C	0&X1,BARITF&3	7		1978	C 0|0 ?36		36
332	1	985		BE	1994	5		1985	B ?94 S		36
333	1	990		CW	1&X1	4		1990	) 0|1		36
334	1	994		LCA	GM,1&X2	7		1994	L K40 0!1		36
335	2	001		C	0&X2	4		2001	C 0!0		37
336	2	005		SAR	X2	4		2005	Q 094		37
337	2	009		BCE	2139,0&X2,#	8		2009	B ?39 0!0 #		37
338	2	017		BCE	2147,1&X2,\$	8		2017	B ?47 0!1 \$		37
339	2	025		MZ	2&X2,2&X1	7		2025	Y 0!2 0|2		37
340	2	032		SBR	X1,4&X1	7		2032	H 089 0|4		37
341	2	039	MORE	MCM	1&X2,1&X1	7		2039	P 0!1 0|1		38
342	2	046		MN		1		2046	D		38
343	2	047		SBR	X1	4		2047	H 089		38
344	2	051		MCM	1&X2	4		2051	P 0!1		38
345	2	055		MN		1		2055	D		38
346	2	056		SAR	X2	4		2056	Q 094		38
347	2	060		BCE	MORE,0&X2,|	8		2060	B !39 0!0 |		38

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	2	068		C	0&X2	4		2068	C 0!0		39
349	2	072		SAR	X2	4		2072	Q 094		39
350	2	076		MCW	X3,SX3A	7		2076	M 099 ?40		39
351	2	083		MCW	3041,0&X1	7		2083	M ?41 0!0		39
352	2	090		LCA	0&X2	4		2090	L 0!0		39
353	2	094		SBR	X3	4		2094	H 099		39
354	2	098		CW	0&X1,1&X3	7		2098	) 0!0 0?1		39
355	2	105		C	0&X2	4		2105	C 0!0		40
356	2	109		SAR	X3	4		2109	Q 099		40
357	2	113		BCE	2158,0&X3,}	8		2113	B J58 0?0 } GMARK		40
358	2	121		SBR	X2,0&X3	7		2121	H 094 0?0		40
359	2	128		MCW	SX3A,X3	7		2128	M ?40 099		40
360	2	135		B	1927	4		2135	B Z27		40
361	2	139		CW	1&X2	4		2139	) 0!1		40
362	2	143		B	2001	4		2143	B !01		41
363	2	147		MZ	3&X2,2&X1	7		2147	Y 0!3 0!2		41
364	2	154		B	2032	4		2154	B !32		41
365	2	158		C	0&X1,KB4	7		2158	C 0!0 ?45		41
366	2	165		SAR	X1	4		2165	Q 089		41
367	2	169		LCA	3041,0&X1	7		2169	L ?41 0!0		41
368	2	176		MCW	0&X2	4		2176	M 0!0		41
369	2	180		MCW	3024,X2	7		2180	M ?24 094		42
370	2	187		BW	2217,6&X2	8		2187	V K17 0!6 1		42
371	2	195		SW	3&X2	4		2195	, 0!3		42
372	2	199		SBR	X1,9&X1	7		2199	H 089 0!9		42
373	2	206		LCA	11&X2	4		2206	L 0J1		42
374	2	210		SBR	X2,11&X2	7		2210	H 094 0J1		42
375	2	217		SBR	X1,6&X1	7		2217	H 089 0!6		43
376	2	224		LCA	6&X2	4		2224	L 0!6		43
377	2	228		LCA		1		2228	L		43
378	2	229		SBR	X2,6&X2	7		2229	H 094 0!6		43
379	2	236		B	LOOP	4		2236	B 871		43
380	2	240	GM	DC	@}@	1		2240		GMARK	43
381			WORK	EQU	*&1			2241			
382	2	290		DCW	#50	50		2290			45
383	2	340		DC	#50	50		2340			47
384	2	390		DC	#50	50		2390			49
385	2	440		DC	#50	50		2440			51
386	2	490		DC	#50	50		2490			53
387	2	540		DC	#50	50		2540			55
388	2	572	WRKTOP	DC	#32	32		2572			56
389				*							
390				*	SKIP SUBSCRIPT IF PRESENT. COPY THE NEXT OPERAND INTO W18A						
391				*	AND THE NEXT OPERATOR INTO OP. BUMP X2 BY 4. IF THE						
392				*	OPERAND AFTER THE OPERATOR HAS A WORD MARK, PUT STARS INTO						
393				*	W3B, ELSE SKIP ANOTHER SUBSCRIPT IF PRESENT AND PUT THE						
394				*	NEXT OPERAND INTO W3B AND BUMP X3 BY THREE.						
395				*							
396	2	573	SETUP	SBR	SETUPX&3	4		2573	H P27		56
397	2	577		BCE	SKPSUB,1&X2,\$	8		2577	B P28 0!1 \$		57

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	2	585		LCA	3&X2,W18A	7		2585	L 0!3 ?63		57
399	2	592		MCW	4&X2,OP	7		2592	M 0!4 ?64		57
400	2	599		SBR	X2,4&X2	7		2599	H 094 0!4		57
401	2	606		BW	*&5,KEEPWM	8		2606	V 018 ?18 1		57
402	2	614	RWM1	CW	0	4		2614	) 000		58
403	2	618		SW	KEEPWM	4		2618	, ?18		58
404	2	622		BW	GOTWM,1&X2	8		2622	V 072 0!1 1		58
405	2	630		SW	1&X2	4		2630	, 0!1		58
406	2	634		SBR	RWM2&3,1&X2 REMEMBER WHERE TO CLEAR WM	7		2634	H P23 0!1		58
407	2	641		MN	0&X2,*&15	7		2641	D 0!0 O62		58
408	2	648		MZ	0&X2,*&8	7		2648	Y 0!0 O62		59
409	2	655		BCE	GOTOP,OPS,0 &-*@.#	8		2655	B 083 ?70 0		59
410	2	663		CHAIN	5					MACRO	
411				BCE		1		2663	B	GEN	59
412				BCE		1		2664	B	GEN	59
413				BCE		1		2665	B	GEN	59
414				BCE		1		2666	B	GEN	59
415				BCE		1		2667	B	GEN	59
416	2	668		SW	FLAG	4		2668	, R36		60
417	2	672	GOTWM	LCA	KSTAR3,W18B	7		2672	L ?12 ?88		60
418	2	679		B	SETUPX	4		2679	B P24		60
419	2	683	GOTOP	BCE	SKPSUB,1&X2,\$	8		2683	B P28 0!1 \$		60
420	2	691		LCA	3&X2,W18B	7		2691	L 0!3 ?88		60
421	2	698		SBR	X2,3&X2	7		2698	H 094 0!3		60
422	2	705		BW	RWM2,1&X2	8		2705	V P20 0!1 1		61
423	2	713		SW	1&X2,FLAG	7		2713	, 0!1 R36		61
424	2	720	RWM2	CW	0	4		2720	) 000		61
425	2	724	SETUPX	B	0	4		2724	B 000		61
426				*							
427				*	SKIP SUBSCRIPT						
428				*							
429	2	728	SKPSUB	SBR	SKPSUX&3	4		2728	H P57		61
430	2	732		SBR	X2,8&X2	7		2732	H 094 0!8		61
431	2	739		BCE	SKPSUX,3&X2,\$	8		2739	B P54 0!3 \$		62
432	2	747		SBR	X2,6&X2	7		2747	H 094 0!6		62
433	2	754	SKPSUX	B	0	4		2754	B 000		62
434				*							
435	2	758		SBR	X1	4		2758	H 089		62
436	2	762		SBR	2836,3&X1	7		2762	H Q36 0!3		62
437	2	769		MCW	2&X1,X1	7		2769	M 0!2 089		62
438	2	776		MN	0&X1,3091	7		2776	D 0!0 ?91		63
439	2	783		MN		1		2783	D		63
440	2	784		MCW	3092	4		2784	M ?92		63
441	2	788		BWZ	2833,0&X1,2	8		2788	V Q33 0!0 2		63
442	2	796		A	KP100,3091	7		2796	A ?95 ?91		63
443	2	803		BWZ	2833,0&X1,S	8		2803	V Q33 0!0 S		63
444	2	811		A	KP100,3091	7		2811	A ?95 ?91		64
445	2	818		BM	2833,0&X1	8		2818	V Q33 0!0 K		64
446	2	826		A	KP100,3091	7		2826	A ?95 ?91		64
447	2	833		B	0	4		2833	B 000		64

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448			*								
449	2	837		SBR	2873	4		2837	H Q73		64
450	2	841		SBR	X3,0&X2	7		2841	H 099 0!0		64
451	2	848		MCW	2972,X1	7		2848	M R72 089		65
452	2	855		BW	2890,FLAG	8		2855	V Q90 R36 1		65
453	2	863		C	X1,3091	7		2863	C 089 ?91		65
454	2	870		BE	0	5		2870	B 000 S		65
455	2	875		BCE	2917,WORK&X1,1	8		2875	B R17 KU1 1		65
456	2	883		A	K3999,X1	7		2883	A R69 089		66
457	2	890		BW	2906,2&X3	8		2890	V R06 0?2 1		66
458	2	898		SBR	X3	4		2898	H 099		66
459	2	902		B	2890	4		2902	B Q90		66
460	2	906		SBR	X3,1&X3	7		2906	H 099 0?1		66
461	2	913		B	2863	4		2913	B Q63		66
462	2	917		A	K3999,X1	7		2917	A R69 089		67
463	2	924		B	2863	4		2924	B Q63		67
464	2	928		CW	1&X3	4		2928	) 0?1		67
465	2	932		B	1070	4		2932	B |70		67
466			*								
467	2	936	FLAG	DC	#1	1		2936			67
468	2	937	DONE	BSS	SNAPSH,C	5		2937	B 333 C		67
469	2	942		SBR	CLEARL&3,GMWM	7		2942	H 710 A03		67
470	2	949		LCA	ARITH5,PHASID	7		2949	L A02 110		67
471	2	956		B	LOADNX	4		2956	B 700		68
472			*								
473			* DATA								
474			*								
475	2	962	SX3	DCW	#3	3		2962			68
476	2	965	SX1	DCW	#3	3		2965			68
477	2	966	OP2	DCW	#1	1		2966			68
478	2	969	K3999	DSA	3999	3		2969	I99		68
479	2	972		DCW	#3	3		2972			68
480	2	973	KP1	DCW	&1	1		2973			68
481	3	008	W35	DCW	#35	35		3008			69
482	3	009	KPLUS	DCW	@&@	1		3009			69
483	3	012	KSTAR3	DCW	@***@	3		3012			69
484	3	013	NOP	NOP		1		3013	N		70
485	3	017		DCW	@&-*@@	4		3017			70
486	3	018	KEEPWM	DCW	#1	1		3018			70
487	3	021		DCW	#3	3		3021			70
488	3	024		DCW	#3	3		3024			70
489	3	025	LCA	LCA		1		3025	L		70
490	3	027		DCW	@01@	2		3027			70
491	3	030	A001	DSA	1	3		3030	001		71
492	3	032		DCW	#2	2		3032			71
493	3	033	BARITF	B	ARITF ENTRY TO THE ARITHMETIC INTERPRETER	4		3033	B 700		71
494	3	037	ASSIGN	DCW	@#@	1		3037			71
495	3	040	SX3A	DCW	#3	3		3040			71
496	3	041		DCW	@|@	1		3041			71
497	3	045	KB4	DCW	#4	4		3045			71

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	3	063	W18A	DCW	#18	18		3063			72
499	3	064	OP	DCW	#1	1		3064			72
500	3	070	OPS	DCW	@&-*@.#@	6		3070			72
501	3	088	W18B	DCW	#18	18		3088			73
502	3	091		DCW	#3	3		3091			73
503	3	092		DCW	@0@	1		3092			73
504	3	095	KP100	DCW	&100	3		3095			73
505	3	102	ARITH5	DCW	@ARITH 5@	7		3102			73
506	3	103	GMWM	DCW	@}@	1		3103		GMARK	73
507				ORG	201				0201		
508		203		DSA	LOADDD	3	0203		838		74
509				EX	BEGINN				B 838		75
510				END					/ 000 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
A001	3030	ARITF	700	ARITH5	3102	ASSIGN	3037	BARITF	3033	BEGINN	838	CLEARL	707
DONE	2937	FLAG	2936	GM	2240	GMWM	3103	GOTOP	2683	GOTWM	2672	INNER	948
K3999	2969	KB4	3045	KEEPWM	3018	KP1	2973	KP100	3095	KPLUS	3009	KSTAR3	3012
LCA	3025	LOADDD	838	LOADNX	700	LOOP	871	M13X	1054	MIDDLE	924	MORE	2039
MOVE13	1019	NOP	3013	OP	3064	OP2	2966	OPS	3070	OUTER	901	PHASID	110
RWM1	2614	RWM2	2720	SAWNEG	123	SETUP	2573	SETUPX	2724	SKPSUB	2728	SKPSUX	2754
SNAPSH	333	SX1	2965	SX3	2962	SX3A	3040	TESTEQ	974	W18A	3063	W18B	3088
W35	3008	WORK	2241	WRKTOP	2572	X1	89	X2	94	X3	99		