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CLEAR STORAGE 1      ,008015,022026,030037,044,049,053053N000000N00001026      1
CLEAR STORAGE 2      L068116,105106,110117B101/I9I#071029C029056B026/B001/0991,001/00111710?  2
BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039      ,0010011040      3
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FORTRAN COMPILER -- ARITH PHASE ONE -- PHASE 33 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101				JOB	FORTRAN COMPILER -- ARITH PHASE ONE -- PHASE 33						
102				CTL	6611						
103				*							
104				*	THIS IS A HOUSEKEEPING PHASE. THE UNARY MINUS (NEGATE) AND						
105				*	EXPONENTIATION OPERATORS ARE CHANGED TO UNIQUE ONE-CHARACTER						
106				*	SYMBOLS (NEGATE BECOMES COMMA, EXPONENTIATE BECOMES DOT).						
107				*	ERROR CHECKING ALSO TAKES PLACE.						
108				*							
109				*	ON ENTRY, X1 IS THE TOP OF THE PREFIX OF CODE IN LOW CORE,						
110				*	X2 IS X1&1, AND X3 IS TWO BELOW THE GM BELOW THE I/O STRINGS,						
111				*	FORMATS AND CONSTANTS IN HIGH CORE.						
112				*							
113			X1	EQU	89			0089			
114			X2	EQU	94			0094			
115			X3	EQU	99			0099			
116				*							
117				*	STUFF IN THE RESIDENT AREA						
118				*							
119			PHASID	EQU	110			PHASE ID, FOR SNAPSHOT DUMPS	0110		
120			SERIES	EQU	117			NEED SERIES ROUTINE IF NO WM	0117		
121			SINCOS	EQU	118			SAW SINIF OR COSF IF NO WM	0118		
122			SAWABS	EQU	122			SAW ABSF IF NO WM	0122		
123			SAWNEG	EQU	123			SAW NEGATION OPERATOR (UNARY MINUS) IF NO WM	0123		
124			GLOBER	EQU	184			GLOBAL ERROR FLAG -- WM MEANS ERROR	0184		
125			SNAPSH	EQU	333			CORE DUMP SNAPSHOT	0333		
126			LOADNX	EQU	700			LOAD NEXT OVERLAY	0700		
127			CLEARL	EQU	707			CS AT START OF OVERLAY LOADER	0707		
128				*							
129				ORG	838			0838			
130	838		BEGINN	SBR	SX3,2&X3	7	0838	H M53 0?2			4
131	845			SW	GM	4	0845	, J60			4
132	849			MCW	0&X1,CODSEQ	7	0849	M 0|0 M47			4
133	856			BCE	LOOP1,CODSEQ-3,R	8	0856	B 890 M44 R			4
134	864			BCE	LOOP1,CODSEQ-3,E	8	0864	B 890 M44 E			4
135	872			MCW	DOT,X2	7	0872	M M43 094			5
136	879			B	DONE	4	0879	B 920			5
137	883		LOOP	MCW	0&X1,CODSEQ	7	0883	M 0|0 M47			5
138	890		LOOP1	SBR	SX3B,0&X3	7	0890	H M50 0?0			5
139	897			BCE	EXPR,CODSEQ-3,R	8	0897	B 943 M44 R			5
140	905			BCE	EXPR,CODSEQ-3,E	8	0905	B 943 M44 E			6
141	913			MCW	SX3,X2	7	0913	M M53 094			6
142	920		DONE	BSS	SNAPSH,C	5	0920	B 333 C			6
143	925			SBR	CLEARL&3,GMWM	7	0925	H 710 P68			6
144	932			LCA	ARITH2,PHASID	7	0932	L M62 110			6
145	939			B	LOADNX	4	0939	B 700			6
146				*							
147				*	EITHER ASSIGNMENT OR ARITHMETIC IF						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148				*							
149	943		EXPR	LCA	0&X1,0&X3 MOVE PREFIX UP	7		0943	L 0|0 0?0		7
150	950			SAR	X1	4		0950	Q 089		7
151	954			C	0&X3	4		0954	C 0?0		7
152	958			SAR	X3	4		0958	Q 099		7
153	962			BWZ	*&5,CODSEQ,2	8		0962	V 974 M47 2		7
154	970			B	*&9	4		0970	B 982		7
155	974			BWZ	EXPR2,CODSEQ-2,2	8		0974	V 998 M45 2		7
156	982			MCW	CODSEQ,X2	7		0982	M M47 094		8
157	989			MN	0&X2,CODSEQ	7		0989	D 0!0 M47		8
158	996			MN		1		0996	D		8
159	997			MN		1		0997	D		8
160	998		EXPR2	C	0&X1	4		0998	C 0|0		8
161	1 002			SAR	SX1	4		1002	Q M65		8
162	1 006			BCE	ASG,CODSEQ-3,R	8		1006	B |85 M44 R		8
163				*							
164				*	STATEMENT IS ARITHMETIC IF						
165				*							
166	1 014			C	0&X1,KB10 MOVE X1 DOWN	7		1014	C 0|0 M75		9
167	1 021			SAR	X1 BY TEN	4		1021	Q 089		9
168	1 025			SW	1&X1	4		1025	, 0|1		9
169	1 029			LCA	10&X1,0&X3 MOVE UP LABELS	7		1029	L 0/0 0?0		9
170	1 036			SAR	X1	4		1036	Q 089		9
171	1 040			C	0&X3	4		1040	C 0?0		9
172	1 044			SAR	X3	4		1044	Q 099		9
173	1 048			CW	1&X1,1&X3	7		1048	) 0|1 0?1		10
174	1 055			LCA	GM	4		1055	L J60		10
175	1 059			LCA	KIFBOT	4		1059	L M79		10
176	1 063			SBR	X3	4		1063	H 099		10
177	1 067			CW	1&X3,5&X3	7		1067	) 0?1 0?5		10
178	1 074			SBR	SX1B,0&X1	7		1074	H M82 0|0		10
179	1 081			B	EXPR3	4		1081	B /43		10
180				*							
181				*	STATEMENT IS ASSIGNMENT						
182				*							
183	1 085		ASG	SBR	X2,1&X1	7		1085	H 094 0|1		11
184	1 092			BCE	MSG23,0&X1,# EQUAL SIGN IS FIRST	8		1092	B !01 0|0 #		11
185	1 100			SBR	SX1B,0&X1	7		1100	H M82 0|0		11
186	1 107		GETEQ	BCE	GOTEQ,0&X1,#	8		1107	B /31 0|0 #		11
187	1 115			BCE	MSG23,0&X1,} NO EQUAL SIGN AT ALL	8		1115	B !01 0|0 } GMARK		11
188	1 123			SBR	X1	4		1123	H 089		12
189	1 127			B	GETEQ	4		1127	B /07		12
190	1 131		GOTEQ	B	SUBCHK	4		1131	B !53		12
191	1 135		ASGL	MN	0&X1	4		1135	D 0|0		12
192	1 139			SAR	X1	4		1139	Q 089		12
193	1 143		EXPR3	SBR	X2,1&X1	7		1143	H 094 0|1		12
194	1 150			SBR	SX1C	4		1150	H M85		12
195	1 154		OPCHKL	MN	0&X1,OPCHK&7	7		1154	D 0|0 /79		13
196	1 161			MZ	0&X1,OPCHK&7	7		1161	Y 0|0 /79		13
197	1 168			SAR	X1	4		1168	Q 089		13

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	1	172	OPCHK	BCE	GOTOP,OPRATR,0 &-@*#%) OR GM	8		1172	B /91 M93 0		13
199	1	180			CHAIN 7					MACRO	
200					BCE	1		1180	B	GEN	13
201					BCE	1		1181	B	GEN	13
202					BCE	1		1182	B	GEN	13
203					BCE	1		1183	B	GEN	14
204					BCE	1		1184	B	GEN	14
205					BCE	1		1185	B	GEN	14
206					BCE	1		1186	B	GEN	14
207	1	187			B OPCHKL	4		1187	B /54		14
208	1	191	GOTOP	SBR	X1,1&X1	7		1191	H 089 0|1		14
209	1	198			BCE MINUS,0&X1,-	8		1198	B V98 0|0 -		14
210	1	206			BCE LPAREN,0&X1,%	8		1206	B W41 0|0 %		15
211	1	214			BCE STAR,0&X1,*	8		1214	B U31 0|0 *		15
212	1	222			BCE PLUS,0&X1,&	8		1222	B V44 0|0 &		15
213	1	230			BCE CHK27,0&X1,@ WAS ORIGINALLY SLASH	8		1230	B U46 0|0 @		15
214	1	238			BCE ASGL,0&X1,#	8		1238	B /35 0|0 #		16
215	1	246			BCE RPAREN,0&X1,)	8		1246	B T39 0|0)		16
216	1	254			MN 1&X1,OPCHK2&7	7		1254	D 0|1 S75		16
217	1	261			MZ 1&X1,OPCHK2&7	7		1261	Y 0|1 S75		16
218	1	268	OPCHK2	BCE	MSG27,OPRAT2,0 &-*@.#,	8		1268	B J22 N00 0		16
219	1	276			CHAIN 6					MACRO	
220					BCE	1		1276	B	GEN	16
221					BCE	1		1277	B	GEN	17
222					BCE	1		1278	B	GEN	17
223					BCE	1		1279	B	GEN	17
224					BCE	1		1280	B	GEN	17
225					BCE	1		1281	B	GEN	17
226	1	282			BCE RESTR2,1&X1,	8		1282	B T10 0|1		17
227	1	290			BCE RESTR2,1&X1,%	8		1290	B T10 0|1 %		17
228	1	298			BCE RESTR2,1&X1,)	8		1298	B T10 0|1)		18
229	1	306			B SUBCHK	4		1306	B !53		18
230	1	310	RESTR2	MCW	SX1B,X2	7		1310	M M82 094		18
231	1	317			LCA 0&X2,0&X3	7		1317	L 0!0 0?0		18
232	1	324			SBR X3	4		1324	H 099		18
233	1	328			MCW SX1,X1	7		1328	M M65 089		18
234	1	335			B LOOP	4		1335	B 883		19
235					*						
236	1	339	RPAREN	MCW	0&X1,RPARSV	7		1339	M 0|0 N02		19
237	1	346			MCW RPARSV-1,*&8 CHAR AFTER RIGHT PARENTHESIS	7		1346	M N01 T60		19
238	1	353			BCE RPAR2,OPRAT3,0 &*@-}) INCLUDES GM	8		1353	B T78 N08 0		19
239	1	361			CHAIN 5					MACRO	
240					BCE	1		1361	B	GEN	19
241					BCE	1		1362	B	GEN	19
242					BCE	1		1363	B	GEN	19
243					BCE	1		1364	B	GEN	20
244					BCE	1		1365	B	GEN	20
245	1	366			BCE RPAR2,RPARSV-1,#	8		1366	B T78 N01 #		20
246	1	374			B MSG27	4		1374	B J22		20
247	1	378	RPAR2	MN	1&X1,OPCHK4&7	7		1378	D 0|1 T99		20

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	1	385		MZ	1&X1,OPCHK4&7	7		1385	Y 0|1 T99		20
249	1	392	OPCHK4	BCE	MSG27,OPRAT4,0 &-*.@ %,	8		1392	B J22 N16 0		20
250	1	400			CHAIN 7					MACRO	
251				BCE		1		1400	B	GEN	21
252				BCE		1		1401	B	GEN	21
253				BCE		1		1402	B	GEN	21
254				BCE		1		1403	B	GEN	21
255				BCE		1		1404	B	GEN	21
256				BCE		1		1405	B	GEN	21
257				BCE		1		1406	B	GEN	21
258	1	407		BCE	ASGL,1&X1,#	8		1407	B /35 0|1 #		22
259	1	415		BCE	ASGL,1&X1,)	8		1415	B /35 0|1)		22
260	1	423		B	SUBCHK	4		1423	B !53		22
261	1	427		B	ASGL	4		1427	B /35		22
262				*							
263				*	ASTERISK						
264				*							
265	1	431	STAR	MCW	0&X1,STAR2	7		1431	M 0|0 N18		22
266	1	438		BCE	EXPON,STAR2-1,*	8		1438	B V13 N17 *		22
267				*	SLASH ORIGINALLY, NOW @						
268	1	446	CHK27	BCE	MSG27,1&X1,#	8		1446	B J22 0|1 #		23
269	1	454		BCE	MSG27,1&X1,%	8		1454	B J22 0|1 %		23
270	1	462		BCE	MSG27,1&X1,	8		1462	B J22 0|1		23
271	1	470	CHK31	MN	1&X1,OPCHK5&7	7		1470	D 0|1 U91		23
272	1	477		MZ	1&X1,OPCHK5&7	7		1477	Y 0|1 U91		23
273	1	484	OPCHK5	BCE	MSG31,OPRAT5,0 &-@*.,	8		1484	B J61 N24 0		24
274	1	492			CHAIN 5					MACRO	
275				BCE		1		1492	B	GEN	24
276				BCE		1		1493	B	GEN	24
277				BCE		1		1494	B	GEN	24
278				BCE		1		1495	B	GEN	24
279				BCE		1		1496	B	GEN	24
280	1	497		BCE	ASGL,1&X1,)	8		1497	B /35 0|1)		24
281	1	505		B	SUBCHK	4		1505	B !53		25
282	1	509		B	ASGL	4		1509	B /35		25
283				*							
284				*	TWO ASTERISKS IN A ROW						
285				*							
286	1	513	EXPON	MN	0&X1	4		1513	D 0|0		25
287	1	517		MN		1		1517	D		25
288	1	518		SAR	X1	4		1518	Q 089		25
289	1	522		MCW	DOT,2&X1 REPLACE ** BY DOT	7		1522	M M43 0|2		25
290	1	529		LCA	0&X1	4		1529	L 0|0		25
291	1	533		SBR	X1,2&X1	7		1533	H 089 0|2		26
292	1	540		B	CHK27	4		1540	B U46		26
293				*							
294				*	PLUS SIGN						
295				*							
296	1	544	PLUS	BCE	IGNORE,1&X1,# IS PLUS	8		1544	B V72 0|1 #		26
297	1	552		BCE	IGNORE,1&X1,% SIGN	8		1552	B V72 0|1 %		26

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	1	560		BCE	IGNORE,1&X1, UNARY?	8		1560	B V72 0|1		26
299	1	568		B	CHK31	4		1568	B U70		26
300	1	572	IGNORE	MN	0&X1	4		1572	D 0|0		27
301	1	576		SAR	X1	4		1576	Q 089		27
302	1	580		LCA	0&X1,1&X1 MOVE UP, CLOBBERING PLUS SIGN	7		1580	L 0|0 0|1		27
303	1	587		SBR	X1,1&X1	7		1587	H 089 0|1		27
304	1	594		B	EXPR3	4		1594	B /43		27
305				*							
306				*	MINUS SIGN						
307				*							
308	1	598	MINUS	BCE	NEGATE,1&X1,#	8		1598	B W26 0|1 #		27
309	1	606		BCE	NEGATE,1&X1,%	8		1606	B W26 0|1 %		28
310	1	614		BCE	NEGATE,1&X1,	8		1614	B W26 0|1		28
311	1	622		B	CHK31	4		1622	B U70		28
312				*							
313	1	626	NEGATE	MCW	COMMA,0&X1	7		1626	M N25 0|0		28
314	1	633		CW	SAWNEG	4		1633	) 123		28
315	1	637		B	ASGL	4		1637	B /35		28
316				*							
317				*	LEFT PARENTHESIS						
318				*							
319	1	641	LPAREN	BCE	FUNC,1&X1,F MAYBE A FUNCTION	8		1641	B W83 0|1 F		29
320	1	649		MN	1&X1,LPARC&7	7		1649	D 0|1 W70		29
321	1	656		MZ	1&X1,LPARC&7	7		1656	Y 0|1 W70		29
322	1	663	LPARC	BCE	ASGL,OPRAT6,0 &-*@ #%,.	8		1663	B /35 N34 0		29
323	1	671			CHAIN 8					MACRO	
324				BCE		1		1671	B	GEN	29
325				BCE		1		1672	B	GEN	29
326				BCE		1		1673	B	GEN	29
327				BCE		1		1674	B	GEN	30
328				BCE		1		1675	B	GEN	30
329				BCE		1		1676	B	GEN	30
330				BCE		1		1677	B	GEN	30
331				BCE		1		1678	B	GEN	30
332	1	679		B	MSG27	4		1679	B J22		30
333				*							
334				*	LEFT PARENTHESIS FOLLOWS F, MAYBE A FUNCTION						
335				*							
336	1	683	FUNC	MCW	X2,SX2	7		1683	M 094 N37		30
337	1	690		MCW	SX1C,X2	7		1690	M M85 094		31
338	1	697		MN	0&X2	4		1697	D 0|0		31
339	1	701		SAR	X2	4		1701	Q 094		31
340	1	705		SW	0&X1	4		1705	, 0|0		31
341	1	709		SBR	SX1C,2&X1	7		1709	H M85 0|2		31
342	1	716		C	SX1C,X2	7		1716	C M85 094		31
343	1	723		BE	MSG27	5		1723	B J22 S		31
344	1	728		SBR	SX1C,3&X1	7		1728	H M85 0|3		32
345	1	735		C	SX1C,X2	7		1735	C M85 094		32
346	1	742		BE	MSG27	5		1742	B J22 S		32
347	1	747		MCW	X3,SX3C	7		1747	M 099 N40		32

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	1	754		MCW	X1, SX1D	7		1754	M 089 N43		32
349	1	761		SBR	X1, SINCOS	7		1761	H 089 118		33
350	1	768		SBR	X3, FNCLST	7		1768	H 099 M41		33
351	1	775	FUNCL	BCE	NOTFNC, 0&X3, * SEARCH FUNCTION NAME TABLE	8		1775	B Y18 0?0 *		33
352	1	783		SBR	X3	4		1783	H 099		33
353	1	787		C	0&X3, 0&X2	7		1787	C 0?0 0!0		33
354	1	794		BE	GOTFNC	5		1794	B Y83 S		33
355	1	799		C	0&X3	4		1799	C 0?0		34
356	1	803		SAR	X3	4		1803	Q 099		34
357	1	807		SBR	X1, 1&X1	7		1807	H 089 0|1		34
358	1	814		B	FUNCL	4		1814	B X75		34
359				*							
360				*	NAME ENDING IN F AND FOLLOWED BY LEFT PARENTHESIS						
361				*	IS NOT IN THE FUNCTION TABLE						
362				*							
363	1	818	NOTFNC	CS	332	4		1818	/ 332		34
364	1	822		CS		1		1822	/		34
365	1	823		SW	GLOBER	4		1823	, 184		34
366	1	827		MN	CODSEQ, 249	7		1827	D M47 249		35
367	1	834		MN		1		1834	D		35
368	1	835		MN		1		1835	D		35
369	1	836		MCW	ERR29	4		1836	M N89		35
370	1	840		W		1		1840	2		35
371	1	841		BCV	*&5	5		1841	B Y50 @		35
372	1	846		B	*&3	4		1846	B Y52		35
373	1	850		CC	1	2		1850	F 1		36
374	1	852		B	RESTRT	4		1852	B !35		36
375				*							
376				*	NEED SERIES FOR UNDEFINED FUNCTION, SIN, COS, LOG, EXP, ATAN						
377				*							
378	1	856	GETSER	CW	SERIES	4		1856	) 117		36
379	1	860		B	FNC2	4		1860	B Z26		36
380				*							
381				*	SIN AND COS ARE THE SAME						
382				*							
383	1	864	COSF	CW	SINCOS	4		1864	) 118		36
384	1	868		B	GETSER	4		1868	B Y56		36
385				*							
386				*	NEED NEGATE FOR ABS						
387				*							
388	1	872	ABSF	CW	SAWABS, SAWNEG ABSF NEEDS NEGATION	7		1872	) 122 123		36
389	1	879		B	FNC2	4		1879	B Z26		37
390				*							
391	1	883	GOTFNC	SW	1&X3	4		1883	, 0?1		37
392	1	887		BCE	COSF, 1&X3, C COSF	8		1887	B Y64 0?1 C		37
393	1	895		BCE	ABSF, 1&X3, A ABSF	8		1895	B Y72 0?1 A		37
394	1	903		CW	0&X1	4		1903	) 0|0		37
395	1	907		MCW	1&X3, *&8	7		1907	M 0?1 Z21		37
396	1	914		BCE	GETSER, SGECT, 0 SIN LOG EXP COS ATAN	8		1914	B Y56 N94 0		38
397	1	922		CHAIN	4					MACRO	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398				BCE		1	1922	B		GEN	38
399				BCE		1	1923	B		GEN	38
400				BCE		1	1924	B		GEN	38
401				BCE		1	1925	B		GEN	38
402	1	926	FNC2	BCE	INTFNC,0&X2,X INTEGER FUNCTION RESULT?	8	1926	B	Z89 0!0 X		38
403	1	934	FNC3	MCW	1&X3,0&X2 MOVE FUNCTION CODE	7	1934	M	0?1 0!0		38
404	1	941		MCW	KB1 AND A BLANK	4	1941	M	N95		39
405	1	945		SBR	X2	4	1945	H	094		39
406	1	949		MCW	SX3C,X3	7	1949	M	N40 099		39
407	1	956		MCW	SX1D,X1	7	1956	M	N43 089		39
408	1	963		CW	0&X1	4	1963	)	0|0		39
409	1	967		SAR	X1	4	1967	Q	089		39
410	1	971		LCA	0&X1,0&X2	7	1971	L	0|0 0!0		39
411	1	978		SBR	X1,0&X2	7	1978	H	089 0!0		40
412	1	985		B	EXPR3	4	1985	B	/43		40
413	1	989	INTFNC	MN	0&X2	4	1989	D	0!0		40
414	1	993		SAR	X2	4	1993	Q	094		40
415	1	997		B	FNC3	4	1997	B	Z34		40
416			*								
417			*	EMIT CODING IS UNINTELLIGIBLE MESSAGE							
418			*								
419	2	001	MSG23	CS	332	4	2001	/	332		40
420	2	005		CS		1	2005	/			40
421	2	006		SW	GLOBER	4	2006	,	184		41
422	2	010		MN	CODSEQ,247	7	2010	D	M47 247		41
423	2	017		MN		1	2017	D			41
424	2	018		MN		1	2018	D			41
425	2	019		MCW	ERR23 UNINTELLIGIBLE	4	2019	M	039		41
426	2	023		W		1	2023	2			41
427	2	024		BCV	*&5	5	2024	B	!33 @		41
428	2	029		B	*&3	4	2029	B	!35		42
429	2	033		CC	1	2	2033	F	1		42
430	2	035	RESTRT	MCW	SX3B,X3	7	2035	M	M50 099		42
431	2	042		MCW	SX1,X1	7	2042	M	M65 089		42
432	2	049		B	LOOP	4	2049	B	883		42
433			*								
434			*	CHECK FOR SUBSCRIPT?							
435			*								
436	2	053	SUBCHK	SBR	SUBCHX&3	4	2053	H	!82		42
437	2	057		BCE	SUBCH2,1&X1,\$	8	2057	B	J99 0|1 \$		42
438	2	065		SBR	SX1E,4&X1	7	2065	H	042 0|4		43
439	2	072	SUBCH3	C	SX1E,X2	7	2072	C	042 094		43
440	2	079	SUBCHX	BE	0	5	2079	B	000 S		43
441			*								
442			*	LEFT SIDE IS INVALID							
443			*								
444	2	084	MSG25	CS	332	4	2084	/	332		43
445	2	088		CS		1	2088	/			43
446	2	089		SW	GLOBER	4	2089	,	184		43
447	2	093		MN	CODSEQ,243	7	2093	D	M47 243		43

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	2	100		MN		1		2100	D		44
449	2	101		MN		1		2101	D		44
450	2	102		MCW	ERR25	4		2102	M 082		44
451	2	106		W		1		2106	2		44
452	2	107		BCV	*&5	5		2107	B J16 @		44
453	2	112		B	*&3	4		2112	B J18		44
454	2	116		CC	1	2		2116	F 1		44
455	2	118		B	RESTRT	4		2118	B !35		45
456				*							
457				*	ARITHMETIC SYNTAX ERROR						
458				*							
459	2	122	MSG27	CS	332	4		2122	/ 332		45
460	2	126		CS		1		2126	/		45
461	2	127		SW	GLOBER	4		2127	, 184		45
462	2	131		MN	CODSEQ,249	7		2131	D M47 249		45
463	2	138		MN		1		2138	D		45
464	2	139		MN		1		2139	D		45
465	2	140		MCW	ERR27	4		2140	M P28		46
466	2	144		W		1		2144	2		46
467	2	145		BCV	*&5	5		2145	B J54 @		46
468	2	150		B	*&3	4		2150	B J56		46
469	2	154		CC	1	2		2154	F 1		46
470	2	156		B	RESTRT	4		2156	B !35		46
471				*							
472	2	160	GM	DC	@} @	1		2160		GMARK	46
473				*							
474				*	DOUBLE OPERATORS						
475				*							
476	2	161	MSG31	CS	332	4		2161	/ 332		46
477	2	165		CS		1		2165	/		47
478	2	166		SW	GLOBER	4		2166	, 184		47
479	2	170		MN	CODSEQ,242	7		2170	D M47 242		47
480	2	177		MN		1		2177	D		47
481	2	178		MN		1		2178	D		47
482	2	179		MCW	ERR31	4		2179	M P67		47
483	2	183		W		1		2183	2		47
484	2	184		BCV	*&5	5		2184	B J93 @		48
485	2	189		B	*&3	4		2189	B J95		48
486	2	193		CC	1	2		2193	F 1		48
487	2	195		B	RESTRT	4		2195	B !35		48
488				*							
489	2	199	SUBCH2	SBR	SX1E,12&X1	7		2199	H 042 0/2		48
490	2	206		BCE	SUBCH3,11&X1,\$	8		2206	B !72 0/1 \$		48
491	2	214		SBR	SX1E,18&X1	7		2214	H 042 0/8		48
492	2	221		B	SUBCH3	4		2221	B !72		49
493				*							
494				*	DATA						
495				*							
496	2	225		DCW	@* @	1		2225		WM CLEARED IF NEEDED	49
497	2	234		DCW	@ %FSOCC@ COSF	9		2234		118 AND 117	49

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
498	2	243		DCW	@ %FSBAXA@ XABSF 122 AND 123	9		2243			49
499	2	252		DCW	@ %FKNILXI@ XLINKF 139	9		2252			49
500	2	261		DCW	@ H@ 138	9		2261			50
501	2	270		DCW	@ D@ 137	9		2270			50
502	2	279		DCW	@ M@ 136	9		2279			50
503	2	288		DCW	@ L@ 135	9		2288			50
504	2	297		DCW	@ K@ 134	9		2297			51
505	2	306		DCW	@ J@ 133	9		2306			51
506	2	315		DCW	@ Z@ 132	9		2315			51
507	2	324		DCW	@ Y@ 131	9		2324			51
508	2	333		DCW	@ W@ 130	9		2333			52
509	2	342		DCW	@ P@ 129	9		2342			52
510	2	351		DCW	@ U@ 128	9		2351			52
511	2	360		DCW	@ R@ 127	9		2360			52
512	2	369		DCW	@ %FTRQSQ@ SQRTF 126	9		2369			53
513	2	378		DCW	@ %FTAOLFF@ FLOATF 125	9		2378			53
514	2	387		DCW	@ %FXIFXX@ XFIXF 124	9		2387			53
515	2	396		DCW	#9 NEGATION 123	9		2396			53
516	2	405		DCW	@ %FSBAA@ ABSF 122	9		2405			54
517	2	414		DCW	@ %FNATAT@ ATANF 121 AND 117	9		2414			54
518	2	423		DCW	@ %FPXEE@ EXPF 129 AND 117	9		2423			54
519	2	432		DCW	@ %FGOLG@ LOGF 119 AND 117	9		2432			54
520	2	441	FNCLST	DCW	@ %FNISS@ SINP 118 AND 117	9		2441			55
521	2	442		DCW	#1	1		2442			55
522	2	443	DOT	DCW	@. @	1		2443			55
523	2	447	CODSEQ	DCW	#4 STATEMENT CODE AND SEQUENCE NUMBER	4		2447			55
524	2	450	SX3B	DCW	#3	3		2450			55
525	2	453	SX3	DCW	#3	3		2453			55
526	2	462	ARITH2	DCW	@ARITH TWO@	9		2462			55
527	2	465	SX1	DCW	#3	3		2465			56
528	2	475	KB10	DCW	#10	10		2475			56
529	2	479	KIFBOT	DCW	@#<99@	4		2479			56
530	2	482	SX1B	DCW	#3	3		2482			56
531	2	485	SX1C	DCW	#3	3		2485			56
532	2	493	OPRATR	DCW	@&-@*#%})@	8		2493			56
533	2	500	OPRAT2	DCW	@&-*@.#,@	7		2500			56
534	2	502	RPARSV	DCW	#2 RIGHT PARENTHESIS AND NEXT CHARACTER	2		2502			57
535	2	508	OPRAT3	DCW	@&*@-})@	6		2508			57
536	2	516	OPRAT4	DCW	@&-*.@%,@	8		2516			57
537	2	518	STAR2	DCW	#2 ASTERISK AND NEXT CHARACTER	2		2518			57
538	2	524	OPRAT5	DCW	@&-@*.*,@	6		2524			57
539	2	525	COMMA	DCW	@,@	1		2525			57
540	2	534	OPRAT6	DCW	@&-*@ #%,.@	9		2534			57
541	2	537	SX2	DCW	#3	3		2537			58
542	2	540	SX3C	DCW	#3	3		2540			58
543	2	543	SX1D	DCW	#3	3		2543			58
544	2	589	ERR29	DCW	@ERROR 29 - UNDEFINED FUNCTION NAME, STATEMENT @	46		2589			60
545	2	594	SGECT	DCW	@SGECT@	5		2594			60
546	2	595	KB1	DCW	#1	1		2595			60
547	2	639	ERR23	DCW	@ERROR 23 - CODING UNINTELLIGIBLE, STATEMENT @	44		2639			62

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
548	2	642	SX1E	DCW	#3	3		2642			62
549	2	682	ERR25	DCW	@ERROR 25 - LEFT SIDE INVALID, STATEMENT @	40		2682			64
550	2	728	ERR27	DCW	@ERROR 27 - ARITHMETIC SYNTAX ERROR, STATEMENT @	46		2728			66
551	2	767	ERR31	DCW	@ERROR 31 - DOUBLE OPERATORS, STATEMENT @	39		2767			67
552	2	768	GMWM	DCW	@}@	1		2768		GMARK	68
553				EX	BEGINN				B 838		69
554				END					/ 000 080		

