

```
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 -- DIMENSION PHASE TWO -- 12 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101			JOB		FORTRAN COMPILER -- DIMENSION PHASE TWO -- 12						
102			CTL		6611						
103			*								
104			*		ARRAYS ARE ASSIGNED THEIR OBJECT-TIME ADDRESSES.						
105			*								
106			*		ON ENTRY, X3 IS ONE BELOW THE GROUP MARK BELOW THE BOTTOM OF						
107			*		THE ARRAY TABLE, AND 86 IS THE ADDRESS OF THE LOW-ORDER DIGIT						
108			*		OF THE OFFSET FIELD OF THE TOPMOST (FIRST) ARRAY TABLE ENTRY						
109			*		IF THERE ARE ANY ARRAYS, OR BLANK IF THERE IS NO ARRAY TABLE.						
110			*								
111			*		ON EXIT THE FIXED-WIDTH FIELDS OF THE ARRAY TABLE ELEMENTS ARE						
112			*		THE BASE ADDRESS AS FIVE DIGITS, THE TOP ADDRESS AS THREE						
113			*		CHARACTERS WITH A TYPE ZONE IN THE SECOND CHARACTER, THE						
114			*		ARRAY ELEMENT WIDTH (IMOD OR MANTIS&2) AND JUNK, AND THE						
115			*		ADDRESS OF THE LOW-ORDER DIGIT OF THE FIRST ARRAY ELEMENT						
116			*		AS THREE CHARACTERS WITH A TYPE ZONE IN THE SECOND CHARACTER.						
117			*								
118			X1	EQU	89			0089			
119			X2	EQU	94			0094			
120			X3	EQU	99			0099			
121			*								
122			*		STUFF IN THE RESIDENT AREA						
123			*								
124			PHASID	EQU	110	PHASE ID, FOR SNAPSHOT DUMPS		0110			
125			GLOBER	EQU	184	GLOBAL ERROR FLAG -- WM MEANS ERROR		0184			
126			ARYTOP	EQU	194	TOP OF ARRAYS IN OBJECT CODE		0194			
127			SNAPSH	EQU	333	CORE DUMP SNAPSHOT		0333			
128			TOPCOR	EQU	688	TOP CORE ADDRESS FROM PARAM CARD		0688			
129			IMOD	EQU	690	INTEGER MODULUS -- NUMBER OF DIGITS		0690			
130			MANTIS	EQU	692	FLOATING POINT MANTISSA DIGITS		0692			
131			FMTSW	EQU	696	X FOR NO FORMAT, L FOR LIMITED FORMAT		0696			
132			*		BLANK FOR ORDINARY, A FOR A CONVERSION						
133			LOADNX	EQU	700	LOAD NEXT OVERLAY		0700			
134			CLEARL	EQU	707	CS AT START OF OVERLAY LOADER		0707			
135			*								
136				ORG	838				0838		
137			LOADDD	EQU	*&1	LOAD ADDRESS		0838			
138	838		BEGINN	BCE	ORD,FMTSW,	ORDINARY FORMATTING?	8	0838	B	891 696	4
139	846			SBR	X2,BASE5A		7	0846	H	094 !60	4
140	853			BCE	OTH,FMTSW,A	A-CONVERSION FORMATTING?	8	0853	B	!33 696 A	4
141	861			SBR	X2,BASE5L		7	0861	H	094 !68	4
142	868			BCE	OTH,FMTSW,L	LIMITED FORMATTING?	8	0868	B	!33 696 L	4
143	876			SBR	X2,BASE5X		7	0876	H	094 !76	5
144	883			BCE	OTH,FMTSW,X	NO FORMATTING?	8	0883	B	!33 696 X	5
145	891	ORD		MCW	X3,83		7	0891	M	099 083	5
146	898			A	KP2,MANTIS	ADD EXPONENT WIDTH TO MANTISSA WIDTH	7	0898	A	J30 692	5
147	905			SW	GM		4	0905	,	!85	5

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	909		LCA	GM,1&X3	PUT A GMWM BELOW BOTTOM OF ARRAY TABLE	7	0909	L !85 0?1			6
149	916		BCE	NOARY,86,	NO ARRAYS?	8	0916	B V98 086			6
150	924		MCW	86,X3		7	0924	M 086 099			6
151	931	AGAIN	S	W6		4	0931	S J36			6
152	935		MCW	6&X3,NEXT		7	0935	M 0?6 J39			6
153	942		BCE	NOEQV,1&X3,	NO EQUIVALENCE CLASS LINK?	8	0942	B T43 0?1			7
154	950		MCW	3&X3,X2	NEXT MEMBER OF EQUIVALENCE CLASS	7	0950	M 0?3 094			7
155	957		ZA	0&X3,W10-4	OFFSET	7	0957	? 0?0 !91			7
156	964		M	5&X2,W10-1		7	0964	@ 0!5 !94			7
157	971		A	0&X2,W10-1	OFFSET OF NEXT IN EQUIVALENCE CLASS	7	0971	A 0!0 !94			7
158	978		MCW	W10-1,0&X3		7	0978	M !94 0?0			8
159	985	NOEQVR	MCW	0&X3,W6		7	0985	M 0?0 J36			8
160	992		SAR	X3		4	0992	Q 099			8
161	996		S	KP1,W6		7	0996	S J40 J36			8
162	1 003		MCW	X3,X2		7	1003	M 099 094			8
163	1 010	MORE	MCM	2&X2	GET X2 ABOVE THE GMWM	4	1010	P 0!2			8
164	1 014		MN		AND THEN	1	1014	D			8
165	1 015		MN		BACK DOWN	1	1015	D			9
166	1 016		SAR	X2	BELOW IT	4	1016	Q 094			9
167	1 020		BCE	MORE,1&X2,		8	1020	B !10 0!1			9
168	1 028		MCW	0&X2,CH	FIRST CHARACTER OF VARIABLE NAME	7	1028	M 0!0 J41			9
169	1 035		MCW	CH,*&8		7	1035	M J41 !49			9
170	1 042		BCE	INTVAR,IJKLMN,0	INTEGER VARIABLE?	8	1042	B T32 J47 0			9
171	1 050		B			1	1050	B			9
172	1 051		B			1	1051	B			10
173	1 052		B			1	1052	B			10
174	1 053		B			1	1053	B			10
175	1 054		B			1	1054	B			10
176	1 055		A	MANTIS,W6	FLOATING POINT VARIABLE	7	1055	A 692 J36			10
177	1 062	VAR	MCW	W6,14&X3	LOW-ORDER TO WHAT WAS PREV	7	1062	M J36 0A4			10
178	1 069		MCW	W6-3,X2	THOUSANDS TO X2	7	1069	M J33 094			10
179	1 076		A	X2	DOUBLE IT	4	1076	A 094			11
180	1 080		MZ	ZONES&X2,12&X3	THOUSANDS ZONES	7	1080	Y !R8 0A2			11
181	1 087		MZ	ZONES&1&X2,14&X3	TO VARIABLE ADDRESS	7	1087	Y !R9 0A4			11
182	1 094		ZA	KZ1,W10-4	CLEAR	7	1094	? J48 !91			11
183	1 101		MCW	0&X3,W10-4	GET FIRST DIMENSION	7	1101	M 0?0 !91			11
184	1 108		MCW	KB1	AND A BLANK	4	1108	M !96			11
185	1 112		SBR	PREP&6		4	1112	H /39			12
186	1 116		NOP	0&X3	GET X2	4	1116	N 0?0			12
187	1 120		MCW		DOWN TO	1	1120	M			12
188	1 121		SAR	X2	SECOND DIMENSION	4	1121	Q 094			12
189	1 125		BCE	NODIM2,0&X2,}	NO SECOND DIMENSION IF GM?	8	1125	B /47 0!0 } GMARK			12
190	1 133	PREP	MCW	0&X2,0-0		7	1133	M 0!0 000			12
191	1 140		M	0&X3,W10-4		7	1140	@ 0?0 !91			12
192	1 147	NODIM2	LCA	KB3,8&X3	CLOBBER EQUIVALENCE LINK	7	1147	L J51 0?8			13
193	1 154		MCW	X1,SX1	SAVE X1	7	1154	M 089 J54			13
194	1 161		MCW	14&X3,X1	ADDRESS TO X1	7	1161	M 0A4 089			13
195	1 168		MCW	CH,*&8		7	1168	M J41 /82			13
196	1 175		BCE	INTVR2,IJKLM2,0	INTEGER VARIABLE?	8	1175	B T65 J60 0			13
197	1 183		B			1	1183	B			13

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	1	184		B		1		1184	B		13
199	1	185		B		1		1185	B		14
200	1	186		B		1		1186	B		14
201	1	187		B		1		1187	B		14
202	1	188		M	MANTIS,W10-1	7		1188	@ 692 !94		14
203	1	195		MZ	KZAB,7&X3	7		1195	Y J61 0?7		14
204	1	202		MCW	MANTIS,10&X3	7		1202	M 692 0A0		14
205	1	209	VAR2	MZ	7&X3,13&X3	7		1209	Y 0?7 0A3		14
206	1	216		MCW	SX1,X1	7		1216	M J54 089		15
207	1	223		S	10&X3,W6	7		1223	S 0A0 J36		15
208	1	230		A	W10-1,W6	7		1230	A !94 J36		15
209	1	237		MN	W6,8&X3	7		1237	D J36 0?8		15
210	1	244		MN		1		1244	D		15
211	1	245		MN		1		1245	D		15
212	1	246		SAR	*&4	4		1246	Q S53		15
213	1	250		MCW	0-0,X2	7		1250	M 000 094		16
214	1	257		MCW	KZ1	4		1257	M J48		16
215	1	261		A	X2	4		1261	A 094		16
216	1	265		MZ	ZONES&1&X2,8&X3	7		1265	Y !R9 0?8		16
217	1	272		CW	WHY NOT	1		1272)		16
218	1	273		SBR	*&7	4		1273	H S83		16
219	1	277		MZ	ZONES&X2,0	7		1277	Y !R8 000		16
220	1	284		A	KP1,W6	7		1284	A J40 J36		17
221	1	291		S	W6,BASE5	7		1291	S J36 !49		17
222	1	298		BM	NEGDIF,BASE5	8		1298	V T54 !49 K		17
223	1	306		A	W6,BASE5	7		1306	A J36 !49		17
224	1	313	TSTMOR	BCE	NOMORE,NEXT,	8		1313	B T90 J39		17
225	1	321		MCW	NEXT,X3	7		1321	M J39 099		18
226	1	328		B	AGAIN	4		1328	B 931		18
227			*								
228	1	332	INTVAR	A	IMOD,W6	7		1332	A 690 J36		18
229	1	339		B	VAR	4		1339	B !62		18
230			*								
231			*		* AT THE END OF AN EQUIVALENCE CLASS (MAYBE THE ONLY ONE						
232			*		* IN IT).						
233			*								
234	1	343	NOEQV	MCW	BASE5,0&X3	7		1343	M !49 0?0		18
235	1	350		B	NOEQVR	4		1350	B 985		18
236			*								
237	1	354	NEGDIF	MCW	W6,BASE5	7		1354	M J36 !49		19
238	1	361		B	TSTMOR	4		1361	B T13		19
239			*								
240	1	365	INTVR2	M	IMOD,W10-1	7		1365	@ 690 !94		19
241	1	372		MZ	KZB,7&X3	7		1372	Y J62 0?7		19
242	1	379		MCW	IMOD,10&X3	7		1379	M 690 0A0		19
243	1	386		B	VAR2	4		1386	B S09		19
244			*								
245			*		* NO MORE ARRAY TABLE ELEMENTS						
246			*								
247			*		* CONVERT TOPCOR TO FIVE DIGITS						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248					*						
249	1	390	NOMORE	S	W2A	4	1390	S	J64		20
250	1	394		S	W2B	4	1394	S	J66		20
251	1	398		MZ	TOPCOR,W2A-1	7	1398	Y	688 J63		20
252	1	405		MZ	TOPCOR-2,W2B-1	7	1405	Y	686 J65		20
253	1	412	LOOP1K	BWZ	MOD4,W2B-1,2 MULTIPLE OF 4K?	8	1412	V	U31 J65 2		20
254	1	420		A	KA0,W2B	7	1420	A	J68 J66		20
255	1	427		B	LOOP1K	4	1427	B	U12		21
256	1	431	MOD4	BWZ	BELOW4,W2A-1,2	8	1431	V	U50 J63 2		21
257	1	439		A	KQ4,W2A	7	1439	A	J70 J64		21
258	1	446		B	MOD4	4	1446	B	U31		21
259	1	450	BELOW4	A	W2B-1,W2A	7	1450	A	J65 J64		21
260	1	457		MCW	TOPCOR, TOP5	7	1457	M	688 !81		21
261	1	464		MCW	W2A	4	1464	M	J64		22
262	1	468		ZA	TOP5	4	1468	?	!81		22
263	1	472		MZ	*-4, TOP5	7	1472	Y	U74 !81		22
264					*						
265					* TEST FOR TOO BIG PROGRAM						
266					*						
267	1	479		S	BASE5, TOP5 TOPCOR - TOP OF ARRAYS	7	1479	S	!49 !81		22
268	1	486		S	KP1, TOP5	7	1486	S	J40 !81		22
269	1	493		BM	TOOBIG, TOP5	8	1493	V	V66 !81 K		22
270	1	501		MN	TOP5, TOP3 LOW-ORDER	7	1501	D	!81 !84		23
271	1	508		MN	DIGITS OF	1	1508	D			23
272	1	509		MN	FREE SPACE	1	1509	D			23
273	1	510		SAR	*&4	4	1510	Q	V17		23
274	1	514		MCW	0-0, X2 THOUSANDS TO X2	7	1514	M	000 094		23
275	1	521		MCW	KZ1 AND A ZERO	4	1521	M	J48		23
276	1	525		A	X2 DOUBLE IT	4	1525	A	094		23
277	1	529		MZ	ZONES&1&X2, TOP3	7	1529	Y	!R9 !84		24
278	1	536		CW	WHY NOT	1	1536)			24
279	1	537		SBR	*&7 JUST	4	1537	H	V47		24
280	1	541		MZ	ZONES&X2, 0 MCW ZONES&X2, TOP3-2?	7	1541	Y	!R8 000		24
281	1	548		MCW	BASE3, ARYTOP	7	1548	M	!52 194		24
282	1	555		MA	TOP3, ARYTOP	7	1555	#	!84 194		24
283	1	562		B	NOTBIG	4	1562	B	W05		24
284	1	566	TOOBIG	BW	NOTBIG, W10 DON'T REPEAT ERROR MESSAGE	8	1566	V	W05 !95 1		25
285	1	574		CS	332	4	1574	/	332		25
286	1	578		CS		1	1578	/			25
287	1	579		MCW	ERROR2, 270	7	1579	M	K06 270		25
288	1	586		W		1	1586	2			25
289	1	587		SW	GLOBER, W10 SET GLOBAL AND DON'T REPEAT FLAGS	7	1587	,	184 !95		25
290	1	594		S	TOP5	4	1594	S	!81		25
291	1	598	NOARY	MCW	TOPCOR, ARYTOP	7	1598	M	688 194		26
292	1	605	NOTBIG	MCW	BASE3, 86	7	1605	M	!52 086		26
293	1	612		CC	L	2	1612	F	L		26
294	1	614		BCV	*&5	5	1614	B	W23 @		26
295	1	619		B	*&3	4	1619	B	W25		26
296	1	623		CC	1	2	1623	F	1		26
297	1	625		CS	332	4	1625	/	332		26

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298	1	629		CS		1		1629	/		27
299	1	630		MCW	STORGE,247	7		1630	M K51 247		27
300	1	637		W		1		1637	2		27
301	1	638		CC	J	2		1638	F J		27
302	1	640		MCW	83,X3	7		1640	M 083 099		27
303				*							
304				*	PRINT THE ARRAYS AND THEIR ADDRESSES						
305				*							
306	1	647	NOTHER	NOP	10&X3	4		1647	N 0A0		27
307	1	651		MCM		1		1651	P		27
308	1	652		SAR	X3	4		1652	Q 099		28
309	1	656		CS	299	4		1656	/ 299		28
310	1	660	MORE3	BCE	MORE2,0&X3,	8		1660	B Z72 0?0		28
311	1	668		B		1		1668	B		28
312	1	669		MN	0&X3	4		1669	D 0?0		28
313	1	673		MN		1		1673	D		28
314	1	674		SAR	X3	4		1674	Q 099		28
315	1	678		BCE	NOARYS,0&X3,: NO ARRAYS IF COLON	8		1678	B Z84 0?0 :		29
316	1	686		MN	201	4		1686	D 201		29
317	1	690		MN		1		1690	D		29
318	1	691		SAR	X2	4		1691	Q 094		29
319	1	695		SBR	X3,0&X3	7		1695	H 099 0?0		29
320				*							
321				*	MOVE VARIABLE TO PRINT AREA -- NEED TO REVERSE IT						
322				*							
323	1	702	MOVE	MCW	0&X3,CH2	7		1702	M 0?0 K52		29
324	1	709		SAR	X3	4		1709	Q 099		29
325	1	713		MCW	CH2,2&X2	7		1713	M K52 0!2		30
326	1	720		SBR	X2	4		1720	H 094		30
327	1	724		BW	MOVFIN,1&X3	8		1724	V X36 0?1 1		30
328	1	732		B	MOVE	4		1732	B X02		30
329	1	736	MOVFIN	C	0&X3 SKIP	4		1736	C 0?0		30
330	1	740		C	THE	1		1740	C		30
331	1	741		C	FIXED	1		1741	C		30
332	1	742		C	WIDTH	1		1742	C		31
333	1	743		SAR	X2 FIELDS	4		1743	Q 094		31
334	1	747		A	TOP5,5&X2	7		1747	A !81 0!5		31
335	1	754		MA	TOP3,8&X2	7		1754	# !84 0!8		31
336	1	761		MA	TOP3,14&X2	7		1761	# !84 0J4		31
337	1	768		MCS	5&X2,218	7		1768	Z 0!5 218		31
338	1	775		MCW	8&X2,234	7		1775	M 0!8 234		32
339	1	782		MZ	KB1,233	7		1782	Y !96 233		32
340	1	789		SW	220	4		1789	, 220		32
341				*							
342				*	CONVERT TOP ADDRESS OF ARRAY TO FIVE DIGITS						
343				*							
344	1	793		S	W2C	4		1793	S K54		32
345	1	797		S	W2D	4		1797	S K56		32
346	1	801		MZ	8&X2,W2C-1	7		1801	Y 0!8 K53		32
347	1	808		MZ	6&X2,W2D-1	7		1808	Y 0!6 K55		33

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
348	1	815	LP1KA	BWZ	MOD4A,W2D-1,2	8	1815	V	Y34 K55	2	33
349	1	823		A	KA0,W2D	7	1823	A	J68 K56		33
350	1	830		B	LP1KA	4	1830	B	Y15		33
351	1	834	MOD4A	BWZ	LOW4,W2C-1,2	8	1834	V	Y53 K53	2	33
352	1	842		A	KQ4,W2C	7	1842	A	J70 K54		34
353	1	849		B	MOD4A	4	1849	B	Y34		34
354	1	853	LOW4	A	W2D-1,W2C	7	1853	A	K55 K54		34
355	1	860		MCW	8&X2,224	7	1860	M	0!8 224		34
356	1	867		MCW	W2C	4	1867	M	K54		34
357	1	871		ZA	224	4	1871	?	224		34
358	1	875		MZ	*-4,224	7	1875	Y	Y77 224		35
359	1	882		MCW	HYPHEN,219	7	1882	M	K57 219		35
360	1	889		MN	5&X2,230	7	1889	D	0!5 230		35
361	1	896		MN		1	1896	D			35
362	1	897		MN		1	1897	D			35
363	1	898		SAR	*&4	4	1898	Q	Z05		35
364	1	902		MCW	0,X2	7	1902	M	000 094		35
365	1	909		MCW	KZ1	4	1909	M	J48		36
366	1	913		A	X2	4	1913	A	094		36
367	1	917		MZ	ZONES&1&X2,230	7	1917	Y	!R9 230		36
368	1	924		CW		1	1924)			36
369	1	925		SBR	*&7	4	1925	H	Z35		36
370	1	929		MZ	ZONES&X2,0	7	1929	Y	!R8 000		36
371	1	936		BCV	*&5	5	1936	B	Z45 @		36
372	1	941		B	*&3	4	1941	B	Z47		37
373	1	945		CC	1	2	1945	F	1		37
374	1	947		W		1	1947	2			37
375	1	948		CS	299	4	1948	/	299		37
376	1	952		MCM	1&X3	4	1952	P	0?1		37
377	1	956		SAR	X3	4	1956	Q	099		37
378	1	960		BCE	DONE,0&X3,	8	1960	B	!08 0?0		37
379	1	968		B	NOTHER DO ANOTHER ONE	4	1968	B	W47		38
380				*							
381	1	972	MORE2	MCM	0&X3	4	1972	P	0?0		38
382	1	976		SBR	X3	4	1976	H	099		38
383	1	980		B	MORE3	4	1980	B	W60		38
384				*							
385				*	PRINT NO ARRAYS MESSAGE						
386				*							
387	1	984	NOARYS	CS	332	4	1984	/	332		38
388	1	988		CS		1	1988	/			38
389	1	989		MCW	NOARYM,209	7	1989	M	K66 209		38
390	1	996		W		1	1996	2			39
391	1	997		BCV	*&5	5	1997	B	!06 @		39
392	2	002		B	DONE	4	2002	B	!08		39
393	2	006		CC	1	2	2006	F	1		39
394				*							
395				*	DONE						
396				*							
397	2	008	DONE	CC	L	2	2008	F	L		39

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
398	2	010		BSS	SNAPSH,E	5		2010	B 333 E		39
399	2	015		SBR	CLEARL&3,GMWM	7		2015	H 710 K73		39
400	2	022		LCA	VARBL1,PHASID	7		2022	L K72 110		40
401	2	029		B	LOADNX	4		2029	B 700		40
402			*								
403			*	FORMATTING	OTHER THAN ORDINARY FORMATTING						
404			*								
405	2	033	OTH	MCW	0&X2,BASE3 BASE ADDRESS	7		2033	M 0!0 !52		40
406	2	040		MCW	AND DECIMAL EQUIVALENT & 1	1		2040	M		40
407	2	041		B	ORD	4		2041	B 891		40
408			*								
409			*	DATA							
410			*								
411	2	049	BASE5	DCW	04280 DECIMAL FORMAT BASE ADDRESS FOR ARRAYS	5		2049			40
412			*		EVENTUALLY, 1 ABOVE TOP OF ARRAYS						
413	2	052	BASE3	DSA	4279 BASE5 - 1 IN MACHINE ADDRESS FORMAT	3		2052	27Z		40
414	2	057		DCW	04617	5		2057			41
415	2	060	BASE5A	DSA	4616 A FORMAT BASE ADDRESS FOR ARRAYS	3		2060	61W		41
416	2	065		DCW	02016	5		2065			41
417	2	068	BASE5L	DSA	2015 L FORMAT BASE ADDRESS FOR ARRAYS	3		2068	!15		41
418	2	073		DCW	01697	5		2073			41
419	2	076	BASE5X	DSA	1696 X (NO) FORMAT BASE ADDRESS FOR ARRAYS	3		2076	W96		41
420	2	081	TOP5	DCW	00000 TOPCOR AS FIVE DIGITS	5		2081			41
421	2	084	TOP3	DCW	000 TOPCOR LESS ARRAYS AS 3 CHARACTERS	3		2084			42
422	2	085	GM	DC	@}@	1		2085		GMARK	42
423	2	095	W10	DCW	#10	10		2095			42
424	2	096	KB1	DCW	#1	1		2096			42
425	2	098	ZONES	DCW	@ 9@	2		2098			42
426	2	129		DCW	@9Z9R9I99ZZRZIZ9RZRRRIR9IZIRIII@	31		2129			43
427	2	130	KP2	DCW	&2	1		2130			43
428	2	136	W6	DCW	#6	6		2136			43
429	2	139	NEXT	DCW	#3	3		2139			44
430	2	140	KP1	DCW	&1	1		2140			44
431	2	141	CH	DCW	#1	1		2141			44
432	2	147	IJKLMNOP	DCW	@IJKLMNOP@	6		2147			44
433	2	148	KZ1	DCW	0	1		2148			44
434	2	151	KB3	DCW	#3	3		2151			44
435	2	154	SX1	DCW	#3 SAVE AREA FOR X1	3		2154			44
436	2	160	IJKLM2	DCW	@IJKLMN@	6		2160			45
437	2	161	KZAB	DCW	&1 A AND B ZONES	1		2161			45
438	2	162	KZB	DCW	-1 B ZONE	1		2162			45
439	2	164	W2A	DCW	#2	2		2164			45
440	2	166	W2B	DCW	#2	2		2166			45
441	2	168	KA0	DCW	@A0@	2		2168			45
442	2	170	KQ4	DCW	@?4@	2		2170			45
443	2	206	ERROR2	DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	36		2206			46
444	2	251	STORGE	DCW	@STORAGE ASSIGNMENT-ARRAYS & EQUATED VARIABLES@	45		2251			48
445	2	252	CH2	DCW	#1	1		2252			48
446	2	254	W2C	DCW	#2	2		2254			48
447	2	256	W2D	DCW	#2	2		2256			48

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
448	2	257	HYPHEN	DCW	@-@	1		2257			48
449	2	266	NOARYM	DCW	@NO ARRAYS@	9		2266			49
450	2	272	VARBL1	DCW	@VARBL1@	6		2272			49
451	2	273	GMWM	DCW	@}@	1		2273		GMARK	49
452				ORG	201				0201		
453		203		DSA	LOADDD	3		0203	838		50
454				EX	BEGINN				B 838		51
455				END					/ 000 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
AGAIN	931	ARYTOP	194	BASE3	2052	BASE5	2049	BASE5A	2060	BASE5L	2068	BASE5X	2076
BEGINN	838	BELOW4	1450	CH	2141	CH2	2252	CLEARL	707	DONE	2008	ERROR2	2206
FMTSW	696	GLOBER	184	GM	2085	GMWM	2273	HYPHEN	2257	IJKLM2	2160	IJKLMN	2147
IMOD	690	INTVAR	1332	INTVR2	1365	KA0	2168	KB1	2096	KB3	2151	KP1	2140
KP2	2130	KQ4	2170	KZ1	2148	KZAB	2161	KZB	2162	LOADDD	838	LOADNX	700
LOOP1K	1412	LOW4	1853	LP1KA	1815	MANTIS	692	MOD4	1431	MOD4A	1834	MORE	1010
MORE2	1972	MORE3	1660	MOVE	1702	MOVFIN	1736	NEGDIF	1354	NEXT	2139	NOARY	1598
NOARYM	2266	NOARYS	1984	NODIM2	1147	NOEQV	1343	NOEQVR	985	NOMORE	1390	NOTBIG	1605
NOTHER	1647	ORD	891	OTH	2033	PHASID	110	PREP	1133	SNAPSH	333	STORGE	2251
SX1	2154	TOOBIG	1566	TOP3	2084	TOP5	2081	TOPCOR	688	TSTMOR	1313	VAR	1062
VAR2	1209	VARBL1	2272	W10	2095	W2A	2164	W2B	2166	W2C	2254	W2D	2256
W6	2136	X1	89	X2	94	X3	99	ZONES	2098				