

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
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			GLOBER	EQU	184 GLOBAL ERROR FLAG -- WM MEANS ERROR						0184		
125			ARYTOP	EQU	194 TOP OF ARRAYS IN OBJECT CODE						0194		
126			TOPCOR	EQU	688 TOP CORE ADDRESS FROM PARAM CARD						0688		
127			IMOD	EQU	690 INTEGER MODULUS -- NUMBER OF DIGITS						0690		
128			MANTIS	EQU	692 FLOATING POINT MANTISSA DIGITS						0692		
129			FMTSW	EQU	696 X FOR NO FORMAT, L FOR LIMITED FORMAT						0696		
130			*		BLANK FOR ORDINARY, A FOR A CONVERSION								
131			*										
132			EXT00		SNAPSH, LOADNX, CDOVLY								MACRO
133			SNAPSH	EQU	333						0333		GEN
134			PHASLD	EQU	381						0381		GEN
135			SNAPEX	EQU	564						0564		GEN
136			LOADNX	EQU	700 CARD OVERLAY UNLESS NOP						0700		GEN
137			CDOVLY	EQU	700 1 IF LOADING FROM CARDS, N IF FROM TAPE						0700		GEN
138			TPREAD	EQU	704 LOAD OVERLAY FROM TAPE						0704		GEN
139			TPERR	EQU	728						0728		GEN
140			*										
141			EXT03		START, TOP OF PHASE 3								MACRO
142			BEGIN3	EQU	838						0838		GEN
143			TOP3	EQU	2600						2600		GEN
144			XT54B		STUFF IN PHASE 54B, LIMITED FORMAT RUNTIME								MACRO
145			LIMADR	EQU	2015 USED IN DIMENSION PHASE 2						2015		GEN
146			LGM	EQU	2022						2022		GEN
147			XT54C		STUFF IN PHASES 54B&C, G								MACRO
148			FMTBAS	EQU	1697						1697		GEN
149			RELENT	EQU	2132 ENTER HERE FROM RELOCATABLE FUNCTION TABLE						2132		GEN
150			NOOVFL	EQU	3138						3138		GEN

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
151			NGM	EQU	4279			4279		GEN			
152			AFMT1	EQU	4280			4280		GEN			
153			AGM	EQU	4616			4616		GEN			
154			*										
155			110	DCW	@DIMEN TWO@			9 0110				1	
156			094	DCW	000			3 0094				2	
157			096	DC	00			2 0096				2	
158			*										
159			PHAS12	LDPH	DIMEN TWO,BEGN12,BEGN12,,,12					MACRO			
			*	PHAZ	LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]					GEN			
			*	XFR	PHASZ PROHIBITED IN A MACRO					GEN			
			*							GEN			
			*	LOAD	A BLOCK					GEN			
			*							GEN			
160			)6J005	EQU	110 PHASE ID			0110		GEN			
161			)6K005	EQU	700 LOAD NEXT PHASE			0700		GEN			
162			)6L005	EQU	704 TAPE READ INSTRUCTION			0704		GEN			
163			)6M005	EQU	728 TAPE ERROR HANDLER			0728		GEN			
			*							GEN			
164				ORG	201				0201				
165			PHAS12	EQU	*&1			0201		GEN			
166				LCA	)9J005,)6J005			7 0201	L 252 110	GEN	3	252	110
167				BCE	)6K005,)6K005,1			8 0208	B 700 700 1	GEN	3	700	700
168				BCE	)6K005,)6L005&4,0			8 0216	B 700 708 0	GEN	3	700	708
169				RTW	1,BEGN12			8 0224	L %U1 838 R	GEN	3	%U1	838
170				BER	)6M005			5 0232	B 728 L	GEN	3	728	
171				CS	BEGN12,)9R005			7 0237	/ 838 256	GEN	4	838	256
172			)9J005	DCW	@DIMEN TWO@			9 0252		GEN	4		
173				DC	#1			1 0253		GEN	4		
174				DC	@12@			2 0255	PHASE NUMBER	GEN	4		
175			)9R005	DCW	@}@			1 0256		GEN	4		
176				XFR	PHAS12				B 201		4	201	
177			*										
178				ORG	BEGIN3				0838				
179	838		BEGN12	MCW	BASE3,DCIMAL			7 0838	M Z70 Z61		5	1970	1961
180				BCE	ORD,FMTSW,			8 0845	B 890 696		5	890	696
181	846			MCW	BASE5A,DCIMAL			7 0853	M Z73 Z61		5	1973	1961
182	853			BCE	ORD,FMTSW,A			8 0860	B 890 696 A		5	890	696
183	861			MCW	BASE5L,DCIMAL			7 0868	M Z76 Z61		5	1976	1961
184	868			BCE	ORD,FMTSW,L			8 0875	B 890 696 L		6	890	696
185	876			MCW	BASE5X,DCIMAL			7 0883	M Z79 Z61		6	1979	1961
186			*	CONVERT	BASE? TO DCIMAL AND COPY TO BASE 5								
187	891		ORD	B	CONV35			4 0890	B Z09		6	1909	
188				A	*-6,DCIMAL			7 0894	A 894 Z61		6	894	1961
189				MCW	DCIMAL,BASE5			7 0901	M Z61 Z67		6	1961	1967
190				MCW	X3,83			7 0908	M 099 083		7	099	083
191	898			A	KP2,MANTIS			7 0915	A !33 692		7	2033	692
192	905			SW	GM			4 0922	, Z88		7	1988	
193	909			LCA	GM,1&X3			7 0926	L Z88 0?1		7	1988	001+3
194	916			BCE	NOARY,86,			8 0933	B V44 086		7	1544	086

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
195		924		MCW	86,X3 ADDRESS OF LOWEST ARRAY	7		0941	M 086 099		8	086	099
196		931	AGAIN	S	W6	4		0948	S !39		8	2039	
197		935		MCW	6&X3,NEXT	7		0952	M 0?6 !42		8	006+3	2042
198		942		BCE	NOEQV,1&X3, NO EQUIVALENCE CLASS LINK?	8		0959	B T60 0?1		8	1360	001+3
199		950		MCW	3&X3,X2 NEXT MEMBER OF EQUIVALENCE CLASS	7		0967	M 0?3 094		8	003+3	094
200		957		ZA	0&X3,W10-4 OFFSET	7		0974	? 0?0 Z94		9	000+3	1994
201		964		M	5&X2,W10-1	7		0981	@ 0!5 Z97		9	005+2	1997
202		971		A	0&X2,W10-1 OFFSET OF NEXT IN EQUIVALENCE CLASS	7		0988	A 0!0 Z97		9	000+2	1997
203		978		MCW	W10-1,0&X3	7		0995	M Z97 0?0		9	1997	000+3
204		985	NOEQVR	MCW	0&X3,W6	7		1002	M 0?0 !39		9	000+3	2039
205		992		SAR	X3	4		1009	Q 099		9	099	
206		996		S	KP1,W6	7		1013	S !43 !39		10	2043	2039
207	1	003		MCW	X3,X2	7		1020	M 099 094		10	099	094
208	1	010	MORE	MCM	2&X2 GET X2 ABOVE THE GMWM	4		1027	P 0!2		10	002+2	
209	1	014		MN	AND THEN	1		1031	D		10		
210	1	015		MN	BACK DOWN	1		1032	D		10		
211	1	016		SAR	X2 BELOW IT	4		1033	Q 094		10	094	
212	1	020		BCE	MORE,1&X2,|	8		1037	B |27 0!1 |		10	1027	001+2
213	1	028		MCW	0&X2,CH FIRST CHARACTER OF VARIABLE NAME	7		1045	M 0!0 !44		10	000+2	2044
214	1	035		MCW	CH,*&8	7		1052	M !44 |66		11	2044	1066
215	1	042		BCE	INTVAR,IJKLMNOP,0 INTEGER VARIABLE?	8		1059	B T49 !50 0		11	1349	2050
216	1	050		B		1		1067	B		11		
217	1	051		B		1		1068	B		11		
218	1	052		B		1		1069	B		11		
219	1	053		B		1		1070	B		11		
220	1	054		B		1		1071	B		11		
221	1	055		A	MANTIS,W6 FLOATING POINT VARIABLE	7		1072	A 692 !39		11	692	2039
222	1	062	VAR	MCW	W6,14&X3 LOW-ORDER TO WHAT WAS PREV	7		1079	M !39 0A4		11	2039	014+3
223	1	069		MCW	W6-3,X2 THOUSANDS TO X2	7		1086	M !36 094		12	2036	094
224	1	076		A	X2 DOUBLE IT	4		1093	A 094		12	094	
225	1	080		MZ	ZONES&X2,12&X3 THOUSANDS ZONES	7		1097	Y !!1 0A2		12	2001+2	012+3
226	1	087		MZ	ZONES&1&X2,14&X3 TO VARIABLE ADDRESS	7		1104	Y !!2 0A4		12	2002+2	014+3
227	1	094		ZA	KZ1,W10-4 CLEAR	7		1111	? !51 Z94		12	2051	1994
228	1	101		MCW	0&X3,W10-4 GET FIRST DIMENSION	7		1118	M 0?0 Z94		12	000+3	1994
229	1	108		MCW	KB1 AND A BLANK	4		1125	M Z99		13	1999	
230	1	112		SBR	PREP&6	4		1129	H /56		13	1156	
231	1	116		NOP	0&X3 GET X2	4		1133	N 0?0		13	000+3	
232	1	120		MCW	DOWN TO	1		1137	M		13		
233	1	121		SAR	X2 SECOND DIMENSION	4		1138	Q 094		13	094	
234	1	125		BCE	NODIM2,0&X2,} NO SECOND DIMENSION IF GM?	8		1142	B /64 0!0 } GMARK		13	1164	000+2
235	1	133	PREP	MCW	0&X2,0-0	7		1150	M 0!0 000		13	000+2	000
236	1	140		M	0&X3,W10-4	7		1157	@ 0?0 Z94		13	000+3	1994
237	1	147	NODIM2	LCA	KB3,8&X3 CLOBBER EQUIVALENCE LINK	7		1164	L !54 0?8		14	2054	008+3
238	1	154		MCW	X1,SX1 SAVE X1	7		1171	M 089 !57		14	089	2057
239	1	161		MCW	14&X3,X1 ADDRESS TO X1	7		1178	M 0A4 089		14	014+3	089
240	1	168		MCW	CH,*&8	7		1185	M !44 /99		14	2044	1199
241	1	175		BCE	INTVR2,IJKLM2,0 INTEGER VARIABLE?	8		1192	B T82 !63 0		14	1382	2063
242	1	183		B		1		1200	B		14		
243	1	184		B		1		1201	B		14		
244	1	185		B		1		1202	B		14		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
245	1	186		B		1		1203	B		15		
246	1	187		B		1		1204	B		15		
247	1	188		M	MANTIS,W10-1	7		1205	@ 692	Z97	15	692	1997
248	1	195		MZ	KZAB,7&X3	7		1212	Y !64	0?7	15	2064	007+3
249	1	202		MCW	MANTIS,10&X3	7		1219	M 692	0A0	15	692	010+3
250	1	209	VAR2	MZ	7&X3,13&X3	7		1226	Y 0?7	0A3	15	007+3	013+3
251	1	216		MCW	SX1,X1	7		1233	M !57	089	15	2057	089
252	1	223		S	10&X3,W6	7		1240	S 0A0	!39	16	010+3	2039
253	1	230		A	W10-1,W6	7		1247	A Z97	!39	16	1997	2039
254	1	237		MN	W6,8&X3	7		1254	D !39	0?8	16	2039	008+3
255	1	244		MN		1		1261	D		16		
256	1	245		MN		1		1262	D		16		
257	1	246		SAR	*&4	4		1263	Q S70		16	1270	
258	1	250		MCW	0-0,X2	7		1267	M 000	094	16	000	094
259	1	257		MCW	KZ1	4		1274	M !51		16	2051	
260	1	261		A	X2	4		1278	A 094		17	094	
261	1	265		MZ	ZONES&1&X2,8&X3	7		1282	Y !!2	0?8	17	2002+2	008+3
262	1	272		CW		1		1289	)		17		
263	1	273		SBR	*&7	4		1290	H T00		17	1300	
264	1	277		MZ	ZONES&X2,0	7		1294	Y !!1	000	17	2001+2	000
265	1	284		A	KP1,W6	7		1301	A !43	!39	17	2043	2039
266	1	291		S	W6,BASE5	7		1308	S !39	Z67	17	2039	1967
267	1	298		BM	NEGDIF,BASE5	8		1315	V T71	Z67 K	18	1371	1967
268	1	306		A	W6,BASE5	7		1323	A !39	Z67	18	2039	1967
269	1	313	TSTMOR	BCE	NOMORE,NEXT,	8		1330	B U07	!42	18	1407	2042
270	1	321		MCW	NEXT,X3	7		1338	M !42	099	18	2042	099
271	1	328		B	AGAIN	4		1345	B 948		18	948	
272				*									
273	1	332	INTVAR	A	IMOD,W6	7		1349	A 690	!39	19	690	2039
274	1	339		B	VAR	4		1356	B |79		19	1079	
275				*									
276				*	AT THE END OF AN EQUIVALENCE CLASS (MAYBE THE ONLY ONE								
277				*	IN IT).								
278				*									
279	1	343	NOEQV	MCW	BASE5,0&X3	7		1360	M Z67	0?0	19	1967	000+3
280	1	350		B	NOEQVR	4		1367	B |02		19	1002	
281				*									
282	1	354	NEGDIF	MCW	W6,BASE5	7		1371	M !39	Z67	19	2039	1967
283	1	361		B	TSTMOR	4		1378	B T30		19	1330	
284				*									
285	1	365	INTVR2	M	IMOD,W10-1	7		1382	@ 690	Z97	20	690	1997
286	1	372		MZ	KZB,7&X3	7		1389	Y !65	0?7	20	2065	007+3
287	1	379		MCW	IMOD,10&X3	7		1396	M 690	0A0	20	690	010+3
288	1	386		B	VAR2	4		1403	B S26		20	1226	
289				*									
290				*	NO MORE ARRAY TABLE ELEMENTS								
291				*									
292				*	CONVERT TOPCOR TO FIVE DIGITS								
293				*									
294					NOMORE MCW TOPCOR,DCIMAL	7		1407	M 688	Z61	20	688	1961

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
295				B	CONV35 ADDRESS IN DCIMAL TO 5 DIGITS IN DCIMAL	4		1414	B Z09		20	1909	
296				MCW	DCIMAL, TOP5	7		1418	M Z61 Z84		21	1961	1984
297				*									
298				*	TEST FOR TOO BIG PROGRAM								
299				*									
300	1	479		S	BASE5, TOP5 TOPCOR - TOP OF ARRAYS	7		1425	S Z67 Z84		21	1967	1984
301	1	486		S	KP1, TOP5	7		1432	S !43 Z84		21	2043	1984
302	1	493		BM	TOOBIG, TOP5	8		1439	V V12 Z84 K		21	1512	1984
303	1	501		MN	TOP5, TOP.3 LOW-ORDER	7		1447	D Z84 Z87		21	1984	1987
304	1	508		MN	DIGITS OF	1		1454	D		21		
305	1	509		MN	FREE SPACE	1		1455	D		21		
306	1	510		SAR	* &4	4		1456	Q U63		22	1463	
307	1	514		MCW	0-0, X2 THOUSANDS TO X2	7		1460	M 000 094		22	000	094
308	1	521		MCW	KZ1 AND A ZERO	4		1467	M !51		22	2051	
309	1	525		A	X2 DOUBLE IT	4		1471	A 094		22	094	
310	1	529		MZ	ZONES&1&X2, TOP.3	7		1475	Y !!2 Z87		22	2002+2	1987
311	1	536		CW	WHY NOT	1		1482	)		22		
312	1	537		SBR	* &7 JUST	4		1483	H U93		22	1493	
313	1	541		MZ	ZONES&X2, 0 MCW ZONES&X2, TOP.3-2?	7		1487	Y !!1 000		22	2001+2	000
314	1	548		MCW	BASE3, ARYTOP	7		1494	M Z70 194		23	1970	194
315	1	555		MA	TOP.3, ARYTOP	7		1501	# Z87 194		23	1987	194
316	1	562		B	NOTBIG	4		1508	B V51		23	1551	
317	1	566	TOOBIG	BW	NOTBIG, W10 DON'T REPEAT ERROR MESSAGE	8		1512	V V51 Z98 1		23	1551	1998
318	1	574		CS	332	4		1520	/ 332		23	332	
319	1	578		CS		1		1524	/		23		
320	1	579		MCW	ERROR2, 270	7		1525	M J01 270		23	2101	270
321	1	586		W		1		1532	2		23		
322	1	587		SW	GLOBER, W10 SET GLOBAL AND DON'T REPEAT FLAGS	7		1533	, 184 Z98		24	184	1998
323	1	594		S	TOP5	4		1540	S Z84		24	1984	
324	1	598	NOARY	MCW	TOPCOR, ARYTOP	7		1544	M 688 194		24	688	194
325	1	605	NOTBIG	MCW	BASE3, 86	7		1551	M Z70 086		24	1970	086
326	1	612		CC	L	2		1558	F L		24		
327	1	614		BCV	* &5	5		1560	B V69 @		24	1569	
328	1	619		B	* &3	4		1565	B V71		24	1571	
329	1	623		CC	1	2		1569	F 1		24		
330	1	625		CS	332	4		1571	/ 332		25	332	
331	1	629		CS		1		1575	/		25		
332	1	630		MCW	STORGE, 247	7		1576	M J46 247		25	2146	247
333	1	637		W		1		1583	2		25		
334	1	638		CC	J	2		1584	F J		25		
335	1	640		MCW	83, X3	7		1586	M 083 099		25	083	099
336				*									
337				*	PRINT THE ARRAYS AND THEIR ADDRESSES								
338				*									
339	1	647	NOTHER	NOP	10&X3	4		1593	N 0A0		25	010+3	
340	1	651		MCM		1		1597	P		25		
341	1	652		SAR	X3	4		1598	Q 099		25	099	
342	1	656		CS	299	4		1602	/ 299		25	299	
343	1	660	MORE3	BCE	MORE2, 0&X3, |	8		1606	B Y62 0?0 |		26	1862	000+3
344	1	668		B		1		1614	B		26		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
345	1	669		MN	0&X3	4		1615	D 0?0		26	000+3	
346	1	673		MN		1		1619	D		26		
347	1	674		SAR	X3	4		1620	Q 099		26	099	
348	1	678		BCE	NOARYS,0&X3,: NO ARRAYS IF COLON	8		1624	B Y74 0?0 :		26	1874	000+3
349	1	686		MN	201	4		1632	D 201		26	201	
350	1	690		MN		1		1636	D		26		
351	1	691		SAR	X2	4		1637	Q 094		26	094	
352	1	695		SBR	X3,0&X3	7		1641	H 099 0?0		27	099	000+3
353				*									
354				*	MOVE VARIABLE TO PRINT AREA -- NEED TO REVERSE IT								
355				*									
356	1	702	MOVE	MCW	0&X3,CH2	7		1648	M 0?0 J47		27	000+3	2147
357	1	709		SAR	X3	4		1655	Q 099		27	099	
358	1	713		MCW	CH2,2&X2	7		1659	M J47 0!2		27	2147	002+2
359	1	720		SBR	X2	4		1666	H 094		27	094	
360	1	724		BW	MOVFIN,1&X3	8		1670	V W82 0?1 1		27	1682	001+3
361	1	732		B	MOVE	4		1678	B W48		28	1648	
362	1	736	MOVFIN	C	0&X3 SKIP	4		1682	C 0?0		28	000+3	
363	1	740		C	THE	1		1686	C		28		
364	1	741		C	FIXED	1		1687	C		28		
365	1	742		C	WIDTH	1		1688	C		28		
366	1	743		SAR	X2 FIELDS	4		1689	Q 094		28	094	
367	1	747		A	TOP5,5&X2	7		1693	A Z84 0!5		28	1984	005+2
368	1	754		MA	TOP.3,8&X2	7		1700	# Z87 0!8		28	1987	008+2
369	1	761		MA	TOP.3,14&X2	7		1707	# Z87 0J4		28	1987	014+2
370	1	768		MCS	5&X2,218	7		1714	Z 0!5 218		29	005+2	218
371	1	775		MCW	8&X2,234	7		1721	M 0!8 234		29	008+2	234
372	1	782		MZ	KB1,233	7		1728	Y Z99 233		29	1999	233
373	1	789		SW	220	4		1735	, 220		29	220	
374				*									
375				*	CONVERT TOP ADDRESS OF ARRAY AT 8&X2 TO FIVE DIGITS IN DCIMAL								
376				*									
377				MCW	8&X2,DCIMAL	7		1739	M 0!8 Z61		29	008+2	1961
378				B	CONV35 ADDRESS IN DCIMAL TO 5 DIGITS IN DCIMAL	4		1746	B Z09		29	1909	
379	1	860		MCW	8&X2,224 MACHINE ADDRESS TO PRINT AREA	7		1750	M 0!8 224		30	008+2	224
380	1	867		MCW	DCIMAL FIVE DIGIT ADDRESS TO PRINT AREA	4		1757	M Z61		30	1961	
381	1	871		ZA	224	4		1761	? 224		30	224	
382	1	875		MZ	*-4,224	7		1765	Y X67 224		30	1767	224
383	1	882		MCW	HYPHEN,219	7		1772	M J48 219		30	2148	219
384	1	889		MN	5&X2,230	7		1779	D 0!5 230		30	005+2	230
385	1	896		MN		1		1786	D		30		
386	1	897		MN		1		1787	D		30		
387	1	898		SAR	*&4	4		1788	Q X95		31	1795	
388	1	902		MCW	0,X2	7		1792	M 000 094		31	000	094
389	1	909		MCW	KZ1	4		1799	M !51		31	2051	
390	1	913		A	X2	4		1803	A 094		31	094	
391	1	917		MZ	ZONES&1&X2,230	7		1807	Y !!2 230		31	2002+2	230
392	1	924		CW		1		1814	)		31		
393	1	925		SBR	*&7	4		1815	H Y25		31	1825	
394	1	929		MZ	ZONES&X2,0	7		1819	Y !!1 000		31	2001+2	000

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
445	2	049	BASE5	DCW	#5 DECIMAL EQUIVALENT OF BASE*, FORMAT BASE	5		1967			35		
446			*		ADDRESS FOR ARRAYS EVENTUALLY, 1 ABOVE TOP								
447			*		OF ARRAYS								
448			*										
449			*		CHANGE VALUES FROM HERE TO BASE5X IF 54B OR 54CD REASSEMBLED.								
450			*										
451	2	052	BASE3	DSA	AFMT1-1 BASE5 - 1 IN MACHINE ADDRESS FORMAT	3		1970	27Z		35	4279	
452	2	060	BASE5A	DSA	AGM A FORMAT BASE ADDRESS FOR ARRAYS	3		1973	61W		35	4616	
453	2	068	BASE5L	DSA	LGM L FORMAT BASE ADDRESS FOR ARRAYS	3		1976	!22		35	2022	
454	2	076	BASE5X	DSA	FMTBAS-1 X (NO) FORMAT BASE ADDRESS FOR ARRAYS	3		1979	W96		36	1696	
455	2	081	TOP5	DCW	00000 TOPCOR AS FIVE DIGITS	5		1984			36		
456	2	084	TOP.3	DCW	000 TOPCOR LESS ARRAYS AS 3 CHARACTERS	3		1987			36		
457	2	085	GM	DC	@}@	1		1988		GMARK	36		
458	2	095	W10	DCW	#10	10		1998			36		
459	2	096	KB1	DCW	#1	1		1999			36		
460	2	098	ZONES	DCW	@ 9@	2		2001			36		
461	2	129		DCW	@9Z9R9I99ZZRZIZ9RZRRRIR9IZIRIII@	31		2032			37		
462	2	130	KP2	DCW	&2	1		2033			37		
463	2	136	W6	DCW	#6	6		2039			37		
464	2	139	NEXT	DCW	#3	3		2042			38		
465	2	140	KP1	DCW	&1	1		2043			38		
466	2	141	CH	DCW	#1	1		2044			38		
467	2	147	IJKLMNOP	DCW	@IJKLMNOP@	6		2050			38		
468	2	148	KZ1	DCW	0	1		2051			38		
469	2	151	KB3	DCW	#3	3		2054			38		
470	2	154	SX1	DCW	#3 SAVE AREA FOR X1	3		2057			38		
471	2	160	IJKLM2	DCW	@IJKLMN@	6		2063			38		
472	2	161	KZAB	DCW	&1 A AND B ZONES	1		2064			38		
473	2	162	KZB	DCW	-1 B ZONE	1		2065			38		
474	2	206	ERROR2	DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	36		2101			39		
475	2	251	STORGE	DCW	@STORAGE ASSIGNMENT-ARRAYS & EQUATED VARIABLES@	45		2146			41		
476	2	252	CH2	DCW	#1	1		2147			41		
477	2	257	HYPHEN	DCW	@-@	1		2148			41		
478	2	266	NOARYM	DCW	@NO ARRAYS@	9		2157			41		
479	2	273	GMWM	DCW	@}@	1		2158		GMARK	41		
480			XFR		BEGN12				B 838		42	838	
481			CLRME	CLRA	BEGN12,GMWM					MACRO			
			*	CLRA	CLRBOT,CLRTOP[,ORG,GMWMAD]					GEN			
			*							GEN			
			*	CLEAR CORE	AFTER A PHASE USING THE CLRTOP ADDRESS					GEN			
			*							GEN			
482			ORG		201				0201				
			*							GEN			
			*	CLEAR DOWN	TO CLRBOT & X00 THE EASY WAY					GEN			
			*							GEN			
483			CLRME	EQU	*&1			0201					
484			)0J006	CS	GMWM CLEAR FROM CLRTOP	4		0201	/ J58		43	2158	
485			SBR	)0J006&3		4		0205	H 204		43	204	
486			SBR	)0L006&6		4		0209	H 250		43	250	
487			C	)0J006&3,)0M006	DOWN TO CLRBOT & X00?	7		0213	C 204 261		43	204	261

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR	
488				BU	)0J006	5		0220	B 201 /	GEN	43	201	
			*							GEN				
			*	NOW CLEAR DOWN TO CLRBOT THE HARD WAY							GEN			
			*							GEN				
489			)0K006	C	)0L006&6,)0N006	7		0225	C 250 264	GEN	43	250	264
490				BU	)0L006	5		0232	B 244 /	GEN	43	244	
491				CS	LOADNX,)0Q006	7		0237	/ 700 271	GEN	44	700	271	
492			)0L006	LCA	)0P006,0-0	7		0244	L 265 000	GEN	44	265	000
493				SBR	)0L006&6	4		0251	H 250	GEN	44	250	
494				B	)0K006	4		0255	B 225	GEN	44	225	
495			)0M006	DSA	)0R006	3		0261	899	GEN	44	899	
496			)0N006	DSA	BEGN12	3		0264	838	GEN	44	838	
497			)0P006	DCW	#1	1		0265		GEN	44		
498				DC	@CLRA @	5		0270		GEN	44			
499			)0Q006	DCW	@}@	1		0271		GEN	44		
500				ORG	BEGN12&X00				0900					
501			)0R006	EQU	*			0899		GEN			
502				XFR	CLRME				B 201		45	201		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J006	0201: 0	)0K006	0225: 0	)0L006	0244: 0	)0M006	0261: 0	)0N006	0264: 0	)0P006	0265: 0
)0Q006	0271: 0	)0R006	0899: 0	)6J005	0110: 0	)6K005	0700: 0	)6L005	0704: 0	)6M005	0728: 0
)9J005	0252: 0	)9R005	0256: 0	AFMT1	4280: 0	AGAIN	0948: 0	AGM	4616: 0	AM1000	1956: 0
ARYTOP	0194: 0	BASE3	1970: 0	BASE5	1967: 0	BASE5A	1973: 0	BASE5L	1976: 0	BASE5X	1979: 0
BEGIN3	0838: 0	BEGN12	0838: 0	C3EXIT	1927: 0	C3LOOP	1913: 0	C3TEST	1952: 0	CDOVLY	0700: 0
CH	2044: 0	CH2	2147: 0	CLRME	0201: 0	CONV35	1909: 0	DCIMAL	1961: 0	DONE	1898: 0
ERROR2	2101: 0	FMTBAS	1697: 0	FMTSW	0696: 0	GLOBER	0184: 0	GM	1988: 0	GMWM	2158: 0
HYPHEN	2148: 0	IJKLM2	2063: 0	IJKLMN	2050: 0	IMOD	0690: 0	INTVAR	1349: 0	INTVR2	1382: 0
KB1	1999: 0	KB3	2054: 0	KP1	2043: 0	KP2	2033: 0	KZ1	2051: 0	KZAB	2064: 0
KZB	2065: 0	LGM	2022: 0	LIMADR	2015: 0	LOADNX	0700: 0	MANTIS	0692: 0	MORE	1027: 0
MORE2	1862: 0	MORE3	1606: 0	MOVE	1648: 0	MOVFIN	1682: 0	NEGDIFF	1371: 0	NEXT	2042: 0
NGM	4279: 0	NOARY	1544: 0	NOARYM	2157: 0	NOARYS	1874: 0	NODIM2	1164: 0	NOEQV	1360: 0
NOEQVR	1002: 0	NOMORE	1407: 0	NOOVFL	3138: 0	NOTBIG	1551: 0	NOTHER	1593: 0	ORD	0890: 0
PHAS12	0201: 0	PHASLD	0381: 0	PREP	1150: 0	RELENT	2132: 0	SNAPEX	0564: 0	SNAPSH	0333: 0
STORGE	2146: 0	SX1	2057: 0	TOOBIG	1512: 0	TOP.3	1987: 0	TOP3	2600: 0	TOP5	1984: 0
TOPCOR	0688: 0	TPERR	0728: 0	TPREAD	0704: 0	TSTMOR	1330: 0	VAR	1079: 0	VAR2	1226: 0
W10	1998: 0	W6	2039: 0	X1	0089: 0	X2	0094: 0	X3	0099: 0	ZONES	2001: 0

UNREFERENCED SYMBOLS

CDOVLY LIMADR NGM NOOVFL PHASLD RELENT SNAPEX TOP3 TPERR TPREAD