

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
101				JOB	FORTRAN COMPILER -- DIMENSION PHASE ONE -- 09								
102				CTL	6611								
103				*									
104				*	EXTERNALLY REFERENCED SYMBOLS ARE MARKED WITH ASTERISK IN COLUMN 1.								
105				*									
106				*	A TABLE OF ARRAYS IS GENERATED AT THE END OF STORAGE.								
107				*	EACH TABLE ELEMENT CONSISTS OF THE ARRAY NAME, ITS								
108				*	DIMENSIONS AND SUFFICIENT SPACE FOR CONTROL STATEMENTS								
109				*	AND DATA GENERATED BY THE EQUIVALENCE PHASES AND BY								
110				*	DIMENSION PHASE TWO.								
111				*									
112				*	DIMENSION TABLE ELEMENTS ARE SEPARATED BY GROUP MARK WORD MARK.								
113				*	AT THE TOP OF EACH ELEMENT IS THE ARRAY NAME, SPELT BACKWARD.								
114				*	BELOW THAT ARE TWO CELLS USED TO DOUBLE LINK THE ELEMENTS.								
115				*	THE UPPER ONE POINTS TO THE NEXT ONE HIGHER IN CORE (UNLESS								
116				*	IT'S BLANK); THE LOWER ONE POINTS TO THE NEXT ONE LOWER IN								
117				*	CORE (UNLESS IT'S BLANK). BELOW THAT ARE EMPTY THREE CHARACTER								
118				*	AND FIVE CHARACTER FIELDS. BELOW THAT ARE THE DIMENSIONS, WITH								
119				*	THE FIRST DIMENSION AT THE HIGHER ADDRESS. THE DIGITS OF THE								
120				*	DIMENSIONS ARE NOT REVERSED.								
121				*									
122				*	81-83 = START (TOP ADDRESS) OF FIRST (TOP IN MEMORY)								
123				*	STATEMENT. REMEMBER, STATEMENTS ARE SORTED BY TYPE NOW,								
124				*	AND PUSHED TO THE BOTTOM OF AVAILABLE CORE.								
125				*									
126				*	ON EXIT, 84-86 IS THE ADDRESS OF THE TOPMOST (FIRST)								
127				*	DIMENSION TABLE.								
128				*									
129			X1	EQU	89						0089		
130			X2	EQU	94						0094		
131			X3	EQU	99						0099		
132				*									
133				*	STUFF IN THE RESIDENT AREA								
134				*									
135			GLOBER	EQU	184						0184		
136			TOPCOR	EQU	688						0688		
137			IMOD	EQU	690						0690		
138			MANTIS	EQU	692						0692		
139				*									
140				EXT00	SNAPSH, LOADNX, CDOVLY								MACRO
141			SNAPSH	EQU	333						0333		GEN
142			PHASLD	EQU	381						0381		GEN
143			SNAPEX	EQU	564						0564		GEN
144			LOADNX	EQU	700						0700		GEN
145			CDOVLY	EQU	700						0700		GEN
146			TPREAD	EQU	704						0704		GEN
147			TPERR	EQU	728						0728		GEN
148				*									
149				EXT03	START, TOP OF PHASE 3								MACRO
150			BEGIN3	EQU	838						0838		GEN

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
151			TOP3	EQU	2600			2600		GEN			
152			*										
153			110	DCW	@DIMEN ONE@	9		0110				1	
154			094	DCW	000	3		0094				2	
155			096	DC	00	2		0096				2	
156			099	DCW	000	3		0099				2	
157			100	DC	0	1		0100				2	
158			*										
159			PHAS9	LDPH	DIMEN ONE,DIFF,BEGIN9,,,9					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			)6J003	EQU	110 PHASE ID			0110		GEN			
161			)6K003	EQU	700 LOAD NEXT PHASE			0700		GEN			
162			)6L003	EQU	704 TAPE READ INSTRUCTION			0704		GEN			
163			)6M003	EQU	728 TAPE ERROR HANDLER			0728		GEN			
			*							GEN			
164				ORG	201				0201				
165			PHAS9	BSS	)8J003,G	5		0201	B 257 G	GEN	3	257	
166				NOF	TO PATCH IN TRAPS FOR DEBUGGING	1		0206	N	GEN	3		
167			)0J003	EQU	*&1			0207		GEN			
168				LCA	)9J003,)6J003	7		0207	L 281 110	GEN	3	281	110
169				BCE	)1J003,)6K003,1 Q: LOADING FROM CARDS?	8		0214	B 250 700 1	GEN	3	250	700
170				BCE	)1J003,)6L003&4,0 Q: LOADING FROM AUTOCODER TAPE?	8		0222	B 250 708 0	GEN	3	250	708
171				RTW	1,DIFF READ THE BLOCK	8		0230	L %U1 838 R	GEN	3	%U1	838
172				BER	)6M003 Q: TAPE ERROR?	5		0238	B 728 L	GEN	4	728	
173				CS	BEGIN9,)9R003 ENTER THE BLOCK	7		0243	/ 839 284	GEN	4	839	284
174			)1J003	CS	)6K003,)9R003 LOAD CARDS OR AUTOCODER TAPE	7		0250	/ 700 284	GEN	4	700	284
175			)8J003	SW	)9R003	4		0257	, 284	GEN	4	284	
176				MU	%T0,)8K003,W	8		0261	M %T0 273 W	GEN	4	%T0	273
177				H	)0J003	4		0269	. 207	GEN	4	207	
178			)8K003	EQU	*&1			0273		GEN			
179			)9J003	DCW	@DIMEN ONE@ PHASE ID	9		0281		GEN	5		
180				DCW	#1	1		0282		GEN	5		
181				DC	@9@ PHASE NUMBER	1		0283		GEN	5		
182			)9R003	DCW	@}@	1		0284		GEN	5		
183				XFR	PHAS9				B 201		5	201	
184			*										
185				ORG	BEGIN3				0838				
186	*	838	DIFF	DCW	@0@ WM IF FP WIDTH /= INTEGER WIDTH	1		0838			6		
187	*	839	BEGIN9	CS	39 THIS PHASE EXPECTS IT TO BE BLANK, BUT	4		0839	/ 039		6	039	
188				SW	1 IT'S NOT IF LOADING FROM AUTOCODER TAPE	4		0843	, 001		6	001	
189				SW	GM	4		0847	, W62		6	1662	
190		843		MCW	83,X1 TOP OF TOP (FIRST) STATEMENT	7		0851	M 083 089		6	083	089
191		850		A	KB1,MANTIS GET RID OF ZONES IN MANTIS	7		0858	A W72 692		6	1672	692
192		857		MCW	MANTIS,MANP2	7		0865	M 692 W74		6	692	1674
193		864		A	KP2,MANP2 MANTIS + 2 = TOTAL FP WIDTH	7		0872	A W75 W74		7	1675	1674
194		871		C	IMOD,MANP2 FP WIDTH == INTEGER WIDTH?	7		0879	C 690 W74		7	690	1674

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
195		878		BU	DIFWID	5		0886	B 895 /		7	895	
196		883		CW	DIFF	4		0891	) 838		7	838	
197		887	DIFWID	LCA	GM,1&X1	7		0895	L W62 0 1		7	1662	001+1
198		894		LCA	TOPCOR,X2	7		0902	L 688 094		7	688	094
199		901		MN	0&X2	4		0909	D 0!0		8	000+2	
200		905		MN		1		0913	D		8		
201		906		MCW	KB1A	4		0914	M W76		8	1676	
202		910		SBR	X2	4		0918	H 094		8	094	
203		914	PREV	MCW	KB1,1-0	7		0922	M W72 001		8	1672	001
204		921		MCW	KLESS,2&X1	7		0929	M W77 0 2		8	1677	002+1
205		928		NOP	2&X1	4		0936	N 0 2		8	002+1	
206		932		SAR	PREV&6	4		0940	Q 928		9	928	
207		936		LCA	0&X1,PREFIX	7		0944	L 0 0 W61		9	000+1	1661
208		943		SAR	X1	4		0951	Q 089		9	089	
209		947		SBR	X3	4		0955	H 099		9	099	
210		951		BCE	DONE,PREFIX,	8		0959	B V53 W61		9	1553	1661
211		959		BCE	FIND,PREFIX-3,I	8		0967	B 987 W58 I		9	987	1658
212		967		BCE	END,PREFIX-3,/	8		0975	B V41 W58 /		10	1541	1658
213		975		B	DONE	4		0983	B V53		10	1553	
214				*									
215				*	SKIP OVER THE ARRAY NAME -- MUST END WITH LEFT PAREN								
216				*									
217		979	FIND	BCE	LPAREN,0&X1,%	8		0987	B  27 0 0 %		10	1027	000+1
218		987		BCE	SYNTAX,0&X1,,	8		0995	B U92 0 0 ,		10	1492	000+1
219		995		BCE	SYNTAX,0&X1,)	8		1003	B U92 0 0 )		10	1492	000+1
220	1	003		BCE	SYNTAX,0&X1,}	8		1011	B U92 0 0 } GMARK		11	1492	000+1
221	1	011		SBR	X1	4		1019	H 089		11	089	
222	1	015		B	FIND	4		1023	B 987		11	987	
223				*									
224				*	FOUND THE LEFT PAREN								
225				*									
226	1	019	LPAREN	SW	LPFLAG	4		1027	, W71		11	1671	
227	1	023		MN	0&X1	4		1031	D 0 0		11	000+1	
228	1	027		SAR	X1	4		1035	Q 089		11	089	
229	1	031		SW	2&X1	4		1039	, 0 2		11	002+1	
230	1	035		MCW	X2,SAVX2	7		1043	M 094 W80		12	094	1680
231	1	042		BW	FIRST,FIRSTF	8		1050	V /20 W81 1		12	1120	1681
232				*									
233				*	CHECK WHETHER SYMBOL IS IN THE TABLE. X2 IS AT BOTTOM								
234				*	OF THE BOTTOM SYMBOL ENTRY.								
235				*									
236	1	050	CHECK	MCM	1&X2	4		1058	P 0!1		12	001+2	
237	1	054		SAR	X2	4		1062	Q 094		12	094	
238	1	058		BCE	FIRST,0&X2, TOP OF THE TABLE?	8		1066	B /20 0!0		12	1120	000+2
239	1	066	HIGHER	MCM	2&X2	4		1074	P 0!2		12	002+2	
240	1	070		MN		1		1078	D		12		
241	1	071		MN		1		1079	D		13		
242	1	072		SBR	X2	4		1080	H 094		13	094	
243	1	076		BCE	HIGHER,1&X2,  NEED TO MOVE UP MORE IF RM	8		1084	B  74 0!1		13	1074	001+2
244	1	084	COMPAR	C	0&X2,0&X3	7		1092	C 0!0 0?0		13	000+2	000+3

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
245	1	091		SAR	X2	4		1099	Q 094		13	094	
246	1	095		BU	CHECK	5		1103	B  58 /		13	1058	
247	1	100		BW	DOUBLE,1&X2	8		1108	V T64 0!1 1		13	1364	001+2
248	1	108		B	CHECK	4		1116	B  58		14	1058	
249	1	112	FIRST	MCW	SAVX2,X2	7		1120	M W80 094		14	1680	094
250	1	119		LCA	GM,0&X2	7		1127	L W62 0!0		14	1662	000+2
251	1	126		LCA	0&X3	4		1134	L 0?0		14	000+3	
252	1	130		LCA	NEWX3	4		1138	L W65		14	1665	
253	1	134		SBR	X2	4		1142	H 094		14	094	
254	1	138		MCW	NEWX3,X3	7		1146	M W65 099		14	1665	099
255	1	145		BCE	HEAD,X3,	8		1153	B /65 099		15	1165	099
256	1	153		B	NOHEAD	4		1161	B /72		15	1172	
257	1	157	HEAD	A	KB1,X3	7		1165	A W72 099		15	1672	099
258	1	164	NOHEAD	LCA	K3B,0&X2	7		1172	L W84 0!0		15	1684	000+2
259	1	171		LCA	K3B	4		1179	L W84		15	1684	
260	1	175		SBR	6&X3	4		1183	H 0?6		15	006+3	
261	1	179		SBR	NEWX3	4		1187	H W65		15	1665	
262	1	183		LCA	K5B	4		1191	L W89		16	1689	
263	1	187		SBR	X2	4		1195	H 094		16	094	
264	1	191	NOTHER	MN	DIMSAV-4	4		1199	D W66		16	1666	
265	1	195		MN		1		1203	D		16		
266	1	196		SAR	X3	4		1204	Q 099		16	099	
267	1	200		SBR	X1,0&X1	7		1208	H 089 0 0		16	089	000+1
268			*										
269			*	ACCUMULATE	CHARACTERS OF DIMENSION								
270			*										
271	1	207	MORE	MCW	0&X1,CHAR	7		1215	M 0 0 W90		16	000+1	1690
272	1	214		SAR	X1	4		1222	Q 089		17	089	
273	1	218		BCE	DIMFIN,CHAR,)	8		1226	B S65 W90 )		17	1265	1690
274	1	226		BCE	DIMFIN,CHAR,}	8		1234	B S65 W90 } GMARK		17	1265	1690
275	1	234		BCE	DIMFIN,CHAR,,	8		1242	B S65 W90 ,		17	1265	1690
276	1	242		MCW	CHAR,2&X3	7		1250	M W90 0?2		17	1690	002+3
277	1	249		SBR	X3	4		1257	H 099		17	099	
278	1	253		B	MORE	4		1261	B S15		18	1215	
279	1	257	DIMFIN	BCE	SYNTAX,1&X1,}	8		1265	B U92 0 1 } GMARK		18	1492	001+1
280	1	265		LCA	1&X3,0&X2	7		1273	L 0?1 0!0		18	001+3	000+2
281	1	272		SBR	X2	4		1280	H 094		18	094	
282	1	276		BCE	NOTHER,1&X1,,	8		1284	B /99 0 1 ,		18	1199	001+1
283	1	284		MCW	PREV&6,X3	7		1292	M 928 099		18	928	099
284	1	291		BCE	NOTBIG,0&X3,<	8		1299	B T11 0?0 <		19	1311	000+3
285	1	299		B	TOOBIG	4		1307	B W17		19	1617	
286	1	303	NOTBIG	CW	FIRSTF	4		1311	) W81		19	1681	
287	1	307	TSTFIN	BCE	FINI,0&X1,}	8		1315	B T52 0 0 } GMARK		19	1352	000+1
288	1	315		B		1		1323	B		19		
289	1	316		BCE	NEWVAR,0&X1,,	8		1324	B T36 0 0 ,		19	1336	000+1
290	1	324		B	SYNTAX	4		1332	B U92		19	1492	
291	1	328	NEWVAR	MN	0&X1	4		1336	D 0 0		20	000+1	
292	1	332		SAR	X1	4		1340	Q 089		20	089	
293	1	336		SBR	X3	4		1344	H 099		20	099	
294	1	340		B	FIND	4		1348	B 987		20	987	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
295				*									
296				*	FINISHED WITH DIMENSION STATEMENT								
297				*									
298	1	344	FINI	C	0&X1	4		1352	C 0 0		20	000+1	
299	1	348		SAR	X1	4		1356	Q 089		20	089	
300	1	352		B	PREV	4		1360	B 922		20	922	
301				*									
302				*	DOUBLY DEFINED ARRAY								
303				*									
304	1	356	DOUBLE	CS	332	4		1364	/ 332		21	332	
305	1	360		CS		1		1368	/		21		
306	1	361		SW	GLOBER	4		1369	, 184		21	184	
307	1	365		MCW	ERROR2,230	7		1373	M X20 230		21	1720	230
308	1	372		MCW	COMPAR&6,X2	7		1380	M  98 094		21	1098	094
309	1	379		MN	232	4		1387	D 232		21	232	
310	1	383		MN		1		1391	D		21		
311	1	384		SAR	X2	4		1392	Q 094		22	094	
312	1	388		SBR	X3,0&X3	7		1396	H 099 0?0		22	099	000+3
313	1	395	MORECH	MCW	0&X3,CH	7		1403	M 0?0 X21		22	000+3	1721
314	1	402		SAR	X3	4		1410	Q 099		22	099	
315	1	406		MCW	CH,2&X2	7		1414	M X21 0!2		22	1721	002+2
316	1	413		SBR	X2	4		1421	H 094		22	094	
317	1	417		BW	DONECH,1&X3	8		1425	V U37 0?1 1		23	1437	001+3
318	1	425		B	MORECH	4		1433	B U03		23	1403	
319	1	429	DONECH	W		1		1437	2		23		
320	1	430		BCV	OVFL	5		1438	B U47 @		23	1447	
321	1	435		B	NOOVFL	4		1443	B U49		23	1449	
322	1	439	OVFL	CC	1	2		1447	F 1		23		
323	1	441	NOOVFL	BCE	BOTTOM,0&X1,)	8		1449	B U73 0 0 )		23	1473	000+1
324	1	449		SBR	X1	4		1457	H 089		24	089	
325	1	453		BCE	SYNTAX,1&X1,}	8		1461	B U92 0 1 } GMARK		24	1492	001+1
326	1	461		B	NOOVFL	4		1469	B U49		24	1449	
327	1	465	BOTTOM	MN	0&X1	4		1473	D 0 0		24	000+1	
328	1	469		SAR	X1	4		1477	Q 089		24	089	
329	1	473		MCW	SAVX2,X2	7		1481	M W80 094		24	1680	094
330	1	480		B	TSTFIN	4		1488	B T15		24	1315	
331				*									
332				*	DIMENSION SYNTAX ERROR								
333				*									
334	1	484	SYNTAX	CS	332	4		1492	/ 332		25	332	
335	1	488		CS		1		1496	/		25		
336	1	489		SW	GLOBER	4		1497	, 184		25	184	
337	1	493		MN	PREFIX,241	7		1501	D W61 241		25	1661	241
338	1	500		MN		1		1508	D		25		
339	1	501		MN		1		1509	D		25		
340	1	502		MCW	ERROR3	4		1510	M X59		25	1759	
341	1	506		W		1		1514	2		26		
342	1	507		BCV	OVFL2	5		1515	B V24 @		26	1524	
343	1	512		B	NOVL2	4		1520	B V26		26	1526	
344	1	516	OVFL2	CC	1	2		1524	F 1		26		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
345	1	518	NOVL2	MCW	SAVX2,X2	7		1526	M W80 094		26	1680	094
346	1	525		BCE	PREV,1&X1,}	8		1533	B 922 0 1 }	GMARK	26	922	001+1
347	1	533	END	C	0&X1	4		1541	C 0 0		26	000+1	
348	1	537		SAR	X1	4		1545	Q 089		27	089	
349	1	541		B	PREV	4		1549	B 922		27	922	
350			*										
351	1	545	DONE	BW	GOTLP,LPFLAG	8		1553	V V96 W71 1		27	1596	1671
352	1	553		LCA	GM,0&X2	7		1561	L W62 0!0		27	1662	000+2
353	1	560		LCA	COLON	4		1568	L X60		27	1760	
354	1	564		LCA	W3	4		1572	L X63		27	1763	
355	1	568		LCA	W3	4		1576	L X63		27	1763	
356	1	572		LCA	W3	4		1580	L X63		28	1763	
357	1	576		LCA	W5	4		1584	L X68		28	1768	
358	1	580		LCA	W10	4		1588	L X70		28	1770	
359	1	584		SBR	X2	4		1592	H 094		28	094	
360	1	588	GOTLP	NOP	2&X1	4		1596	N 0 2		28	002+1	
361	1	592		MCM		1		1600	P		28		
362	1	593		MCW		1		1601	M		28		
363	1	594		SAR	X1	4		1602	Q 089		29	089	
364	1	598		MCW	6,86	7		1606	M 006 086		29	006	086
365	1	642		B	LOADNX	4		1613	B 700		29	700	
366			*										
367			*	PROGRAM IS TOO BIG									
368			*										
369	1	646	TOOBIG	CS	332	4		1617	/ 332		29	332	
370	1	650		CS		1		1621	/		29		
371	1	651		CC	1	2		1622	F 1		29		
372	1	653		MCW	MSG2,270	7		1624	M Y06 270		29	1806	270
373	1	660		W		1		1631	2		30		
374	1	661		CC	1	2		1632	F 1		30		
375	1	663		BCE	HALT,CDOVLY,1	8		1634	B W47 700 1		30	1647	700
376	1	671		RWD	1	5		1642	U %U1 R		30	%U1	
377	1	676	HALT	H	HALT	4		1647	. W47		30	1647	
378			*										
379			*	DATA									
380			*										
381	1	690	PREFIX	DCW	@0 @	11		1661			30		
382	1	691	GM	DC	@}@	1		1662		GMARK	30		
383	1	694	NEWX3	DCW	#3	3		1665			30		
384	1	699	DIMSAV	DCW	#5	5		1670			31		
385	1	700	LPFLAG	DC	#1 WM IN LOW-ORDER CHARACTER IF LEFT PAREN	1		1671			31		
386	1	701	KB1	DCW	#1	1		1672			31		
387	1	703	MANP2	DCW	#2 MANTIS + 2	2		1674			31		
388	1	704	KP2	DCW	&2	1		1675			31		
389	1	705	KB1A	DCW	#1	1		1676			31		
390	1	706	KLESS	DCW	@<@	1		1677			31		
391	1	709	SAVX2	DCW	#3	3		1680			31		
392	1	710	FIRSTF	DCW	#1 WM IS FIRST-TIME FLAG	1		1681			32		
393	1	713	K3B	DCW	#3	3		1684			32		
394	1	718	K5B	DCW	#5	5		1689			32		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
395	1	719	CHAR	DCW	#1 CHARACTER FROM DIMENSION FIELD	1		1690			32		
396	1	749	ERROR2	DCW	@ERROR 2 - DOUBLY DEFINED ARRAY@	30		1720			33		
397	1	750	CH	DCW	#1	1		1721			33		
398	1	788	ERROR3	DCW	@ERROR 3 - DIMENSION SYNTAX, STATEMENT @	38		1759			34		
399	1	789	COLON	DCW	@:@	1		1760			34		
400	1	792	W3	DCW	#3	3		1763			35		
401	1	797	W5	DCW	#5	5		1768			35		
402	1	799	W10	DCW	10	2		1770			35		
403	1	844	MSG2	DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	36		1806			36		
404			200	DCW	#1 MAKE SURE 1-80 ARE BLANK -- SEE MCW 6,86	1		0200			37		
405	1	845	GMWM	DCW	@}@	1		1807		GMARK	38		
406				XFR	BEGIN9				B 839		38	839	
407				*									
408				CLRME	CLRA BEGIN9,GMWM,C					MACRO			
				*	CLRA CLRBOT,CLRTOP[,SS,HERE,GWMAD]					GEN			
				*						GEN			
				*	CLEAR CORE AFTER A PHASE USING THE CLRTOP ADDRESS					GEN			
				*						GEN			
409				ORG	201				0201				
				*						GEN			
				*	CLEAR DOWN TO CLRBOT & X00 THE EASY WAY					GEN			
				*						GEN			
410				CLRME	EQU *&1			0201		GEN			
411				BSS	SNAPSH,C	5		0201	B 333 C	GEN	39	333	
412				)0J004	CS GMWM CLEAR FROM CLRTOP	4		0206	/ Y07	GEN	39	1807	
413				SBR	)0J004&3	4		0210	H 209	GEN	39	209	
414				SBR	)0L004&6	4		0214	H 255	GEN	39	255	
415				C	)0J004&3,)0M004 DOWN TO CLRBOT & X00?	7		0218	C 209 266	GEN	39	209	266
416				BU	)0J004	5		0225	B 206 /	GEN	39	206	
				*						GEN			
				*	NOW CLEAR DOWN TO CLRBOT THE HARD WAY					GEN			
				*						GEN			
417				)0K004	C )0L004&6,)0N004	7		0230	C 255 269	GEN	39	255	269
418				BU	)0L004	5		0237	B 249 /	GEN	40	249	
419				CS	LOADNX,)0Q004 LOAD THE NEXT BLOCK AT 1	7		0242	/ 700 276	GEN	40	700	276
420				)0L004	LCA )0P004,0-0 CLEAR WITH BLANK AND WORD MARK	7		0249	L 270 000	GEN	40	270	000
421				SBR	)0L004&6	4		0256	H 255	GEN	40	255	
422				B	)0K004	4		0260	B 230	GEN	40	230	
423				)0M004	DSA )0R004 CLRBOT & X00 - 1	3		0266	899	GEN	40	899	
424				)0N004	DSA BEGIN9 CLRBOT	3		0269	839	GEN	40	839	
425				)0P004	DCW #1	1		0270		GEN	41		
426				DC	@CLRA @ IDENTIFY IN A DECK, TAPE, OR DUMP	5		0275		GEN	41		
427				)0Q004	DCW @}@	1		0276		GEN	41		
428				ORG	BEGIN9&X00				0900				
429				)0R004	EQU * CLRBOT & X00 - 1			0899		GEN			
430				XFR	CLRME				B 201		41	201	

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J003	0207: 0	)0J004	0206: 0	)0K004	0230: 0	)0L004	0249: 0	)0M004	0266: 0	)0N004	0269: 0
)0P004	0270: 0	)0Q004	0276: 0	)0R004	0899: 0	)1J003	0250: 0	)6J003	0110: 0	)6K003	0700: 0
)6L003	0704: 0	)6M003	0728: 0	)8J003	0257: 0	)8K003	0273: 0	)9J003	0281: 0	)9R003	0284: 0
BEGIN3	0838: 0	BEGIN9	0839: 0	BOTTOM	1473: 0	CDOVLY	0700: 0	CH	1721: 0	CHAR	1690: 0
CHECK	1058: 0	CLRME	0201: 0	COLON	1760: 0	COMPAR	1092: 0	DIFF	0838: 0	DIFWID	0895: 0
DIMFIN	1265: 0	DIMSAV	1670: 0	DONE	1553: 0	DONECH	1437: 0	DOUBLE	1364: 0	END	1541: 0
ERROR2	1720: 0	ERROR3	1759: 0	FIND	0987: 0	FINI	1352: 0	FIRST	1120: 0	FIRSTF	1681: 0
GLOBER	0184: 0	GM	1662: 0	GMWM	1807: 0	GOTLP	1596: 0	HALT	1647: 0	HEAD	1165: 0
HIGHER	1074: 0	IMOD	0690: 0	K3B	1684: 0	K5B	1689: 0	KB1	1672: 0	KB1A	1676: 0
KLESS	1677: 0	KP2	1675: 0	LOADNX	0700: 0	LPAREN	1027: 0	LPFLAG	1671: 0	MANP2	1674: 0
MANTIS	0692: 0	MORE	1215: 0	MORECH	1403: 0	MSG2	1806: 0	NEWVAR	1336: 0	NEWX3	1665: 0
NOHEAD	1172: 0	NOOVFL	1449: 0	NOTBIG	1311: 0	NOTHER	1199: 0	NOVL2	1526: 0	OVFL	1447: 0
OVFL2	1524: 0	PHAS9	0201: 0	PHASLD	0381: 0	PREFIX	1661: 0	PREV	0922: 0	SAVX2	1680: 0
SNAPEX	0564: 0	SNAPSH	0333: 0	SYNTAX	1492: 0	TOOBIG	1617: 0	TOP3	2600: 0	TOPCOR	0688: 0
TPERR	0728: 0	TPREAD	0704: 0	TSTFIN	1315: 0	W10	1770: 0	W3	1763: 0	W5	1768: 0
X1	0089: 0	X2	0094: 0	X3	0099: 0						

## UNREFERENCED SYMBOLS

PHASLD SNAPEX TOP3 TPERR TPREAD