

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
195			* MOVE TRANSFORMED STATEMENTS DOWN TO FREBOT										
196			*										
197	898		SBR		X1,FREBOT	7		0898	H 089 N99		8	089	2599
198	905		MN		0&X1	4		0905	D 0|0		8	000+1	
199	909		SAR		X1	4		0909	Q 089		9	089	
200	913	MORE	MCM		0&X2	4		0913	P 0!0		9	000+2	
201	917		SAR		NEXTX2&6	4		0917	Q 939		9	939	
202	921		MCM		0&X2,1&X1 MOVE ONE STATEMENT DOWN	7		0921	P 0!0 0|1		9	000+2	001+1
203	928		MN			1		0928	D		9		
204	929		SBR		X1	4		0929	H 089		9	089	
205	933	NEXTX2	SBR		X2,0	7		0933	H 094 000		9	094	000
206	940		BCE		MORE,0&X1,| MORE TO DO IF RM	8		0940	B 913 0|0 |		10	913	000+1
207	948		MN		0&X2	4		0948	D 0!0		10	000+2	
208	952		CW			1		0952	)		10		
209	953		SW		0&X1	4		0953	, 0|0		10	000+1	
210	957		C		X2,TBLBOT DONE MOVING STATEMENTS?	7		0957	C 094 T05		10	094	1305
211	964		BU		MORE NO	5		0964	B 913 /		10	913	
212			*										
213			* X2 IS NOW AT THE BOTTOM OF THE ARRAY TABLE AND										
214			* X1 IS AT THE TOP OF THE MOVED-DOWN TRANSFORMED CODE										
215			*										
216	969		CW		0&X2 WHY CLEAR THIS WM?	4		0969	) 0!0		10	000+2	
217	973		CW			1		0973	)		11		
218	974		SBR		TOPCD9,2&X1	7		0974	H 840 0|2		11	840	002+1
219	981		MN		ZONES-32,TOPCD9 99	7		0981	D S70 840		11	1270	840
220	988		MN			1		0988	D		11		
221	989		MCW		TOPCOR,X3	7		0989	M 688 099		11	688	099
222	996		MN		0&X3	4		0996	D 0?0		11	000+3	
223	1 000		SW			1		1000	,		11		
224	1 001		SAR		83 TOPCOR-2	4		1001	Q 083		12	083	
225	1 005		SBR		X3	4		1005	H 099		12	099	
226	1 009	CLRLP2	CS		0&X3 CLEAR THE ARRAY TABLE AND	4		1009	/ 0?0		12	000+3	
227	1 013		SBR		X3 TRANSFORMED CODE AT TOP OF CORE	4		1013	H 099		12	099	
228	1 017		C		X3,TOPCD9 DOWN TO TOP OF CODE & X00 ?	7		1017	C 099 840		12	099	840
229	1 024		BU		CLRLP2 NO, MORE TO DO	5		1024	B |09 /		12	1009	
230			*										
231			* COMPUTE TOPCD9 (HASH TABLE BASE), DIFF (10 * SIZE OF HASH										
232			* TABLE) AND BNDRY (TOP OF HASH TABLE)										
233			*										
234	1 029		MCW		KLESS,0&X3	7		1029	M T09 0?0		12	1309	000+3
235	1 036		MCW		83,TOCONV	7		1036	M 083 S68		13	083	1268
236	1 043		B		CONV5 CONVERT TOPCOR-1 TO DECIMAL	4		1043	B /94		13	1194	
237	1 047		MCW		W5,DIFF	7		1047	M T14 845		13	1314	845
238	1 054		MCW		TOPCD9,TOCONV CONVERT TOPCD9 TO DECIMAL	7		1054	M 840 S68		13	840	1268
239	1 061		B		CONV5	4		1061	B /94		13	1194	
240	1 065		S		W5,DIFF DIFF = TOPCOR-1 - TOPCD9	7		1065	S T14 845		13	1314	845
241	1 072		A		DIFF-1,W6 DIFF / 10	7		1072	A 844 T20		14	844	1320
242	1 079		A		W6 DIFF / 5	4		1079	A T20		14	1320	
243	1 083		A		DIFF-1,W6 DIFF / 5 + DIFF / 10 = 3 * DIFF / 10	7		1083	A 844 T20		14	844	1320
244	1 090		A		W5,W6 TOPCD9 + DIFF * 0.3	7		1090	A T14 T20		14	1314	1320

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
245	1	097		MCW	W6-3,X3 (TOPCD9 + DIFF * 0.3) / 1000	7		1097	M T17	099	14	1317	099
246	1	104		A	X3 2 * (TOPCD9 + DIFF * 0.3) / 1000	4		1104	A	099	14	099	
247	1	108		MZ	ZONES-31&X3,W6-2	7		1108	Y SG1	T18	15	1271+3	1318
248	1	115		MZ	ZONES-30&X3,W6 TO MACHINE ADDRESS	7		1115	Y SG2	T20	15	1272+3	1320
249	1	122		MCW	W6,X3	7		1122	M T20	099	15	1320	099
250	1	129		SW	2&X3	4		1129	,	0?2	15	002+3	
251	1	133		MCW	KLESS	4		1133	M T09		15	1309	
252	1	137		SBR	BNDRY	4		1137	H	848	15	848	
253	1	141		MCW	X1,X2	7		1141	M	089 094	16	089	094
254	1	148		MN	0&X2	4		1148	D	0!0	16	000+2	
255	1	152		SAR	X1	4		1152	Q	089	16	089	
256				*									
257				*	DONE								
258				*									
259	1	193		B	LOADNX	4		1156	B	700	16	700	
260				*									
261				*	PROGRAM IS TOO BIG								
262				*									
263	1	197	TOOBIG	CS	332	4		1160	/	332	16	332	
264	1	201		CS		1		1164	/		16		
265	1	202		CC	1	2		1165	F	1	16		
266	1	204		MCW	ERROR2,270	7		1167	M T56	270	17	1356	270
267	1	211		W		1		1174	2		17		
268	1	212		CC	1	2		1175	F	1	17		
269	1	214		BCE	HALT,CDOVLY,1	8		1177	B /90	700 1	17	1190	700
270	1	222		RWD	1	5		1185	U %U1	R	17	%U1	
271	1	227	HALT	H	HALT	4		1190	.	/90	17	1190	
272				*									
273				*	CONVERT TOCONV FROM MACHINE TO DECIMAL								
274				*									
275	1	231	CONV5	SBR	CONVX&3	4		1194	H	S63	17	1263	
276	1	235		MN	TOCONV,W5	7		1198	D S68	T14	18	1268	1314
277	1	242		MN		1		1205	D		18		
278	1	243		MN		1		1206	D		18		
279	1	244		MCW		1		1207	M		18		
280	1	245		MZ	TOCONV,ZONES-32	7		1208	Y S68	S70	18	1268	1270
281	1	252		MZ	TOCONV-2,ZONES-33	7		1215	Y S66	S69	18	1266	1269
282	1	259		NOP	ZONES-34	4		1222	N	S68	18	1268	
283	1	263		SAR	X3	4		1226	Q	099	19	099	
284	1	267	CONVL	C	4&X3,ZONES-32 LOOK FOR CORRECT ZONES	7		1230	C 0?4	S70	19	004+3	1270
285	1	274		SAR	X3	4		1237	Q	099	19	099	
286	1	278		A	KP1,W5-3 ADD ONE TO THOUSANDS	7		1241	A T57	T11	19	1357	1311
287	1	285		BU	CONVL	5		1248	B S30	/	19	1230	
288	1	290		MZ	KB1,W5-3	7		1253	Y T58	T11	19	1358	1311
289	1	297	CONVX	B	0	4		1260	B	000	19	000	
290				*									
291				*	DATA								
292				*									
293	1	305	TOCONV	DCW	@0J @	5		1268			20		
294	1	339	ZONES	DCW	@9999Z9R9I99ZZRZIZ9RZRRRIR9IZIRIII@	34		1302			20		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
295	1	342	TBLBOT	DCW	#3	3		1305			21		
296	1	345	KFREE	DSA	FREBOT	3		1308	N99		21	2599	
297	1	346	KLESS	DCW	@<@	1		1309			21		
298	1	351	W5	DCW	#5	5		1314			21		
299	1	357	W6	DCW	#6	6		1320			21		
300	1	402	ERROR2	DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	36		1356			22		
301	1	403	KP1	DCW	&1	1		1357			22		
302	1	404	KB1	DCW	#1	1		1358			22		
303	1	405	GMWM	DCW	@}@	1		1359		GMARK	22		
304			XFR		BEGN14				B 849		23	849	
305			CLRME	CLRA	BEGN14, GMWM, C					MACRO			
			*	CLRA	CLRBOT, CLRTOP [, SS, HERE, GWMAD]					GEN			
			*							GEN			
			*	CLEAR CORE	AFTER A PHASE USING THE CLRTOP ADDRESS					GEN			
			*							GEN			
306			ORG		201				0201				
			*							GEN			
			*	CLEAR DOWN	TO CLRBOT & X00 THE EASY WAY					GEN			
			*							GEN			
307			CLRME	EQU	*&1			0201					
308				BSS	SNAPSH, C	5		0201	B 333 C	GEN	24	333	
309			)0J005	CS	GMWM CLEAR FROM CLRTOP	4		0206	/ T59	GEN	24	1359	
310				SBR	)0J005&3	4		0210	H 209	GEN	24	209	
311				SBR	)0L005&6	4		0214	H 255	GEN	24	255	
312				C	)0J005&3,)0M005 DOWN TO CLRBOT & X00?	7		0218	C 209 266	GEN	24	209	266
313				BU	)0J005	5		0225	B 206 /	GEN	24	206	
			*							GEN			
			*	NOW CLEAR DOWN	TO CLRBOT THE HARD WAY					GEN			
			*							GEN			
314			)0K005	C	)0L005&6,)0N005	7		0230	C 255 269	GEN	24	255	269
315				BU	)0L005	5		0237	B 249 /	GEN	25	249	
316				CS	LOADNX,)0Q005 LOAD THE NEXT BLOCK AT 1	7		0242	/ 700 276	GEN	25	700	276
317			)0L005	LCA	)0P005, 0-0 CLEAR WITH BLANK AND WORD MARK	7		0249	L 270 000	GEN	25	270	000
318				SBR	)0L005&6	4		0256	H 255	GEN	25	255	
319				B	)0K005	4		0260	B 230	GEN	25	230	
320			)0M005	DSA	)0R005 CLRBOT & X00 - 1	3		0266	899	GEN	25	899	
321			)0N005	DSA	BEGN14 CLRBOT	3		0269	849	GEN	25	849	
322			)0P005	DCW	#1	1		0270		GEN	26		
323				DC	@CLRA @ IDENTIFY IN A DECK, TAPE, OR DUMP	5		0275		GEN	26		
324			)0Q005	DCW	@}@	1		0276		GEN	26		
325				ORG	BEGN14&X00				0900				
326			)0R005	EQU	* CLRBOT & X00 - 1			0899		GEN			
327				XFR	CLRME				B 201		26	201	

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J004	0207: 0	)0J005	0206: 0	)0K005	0230: 0	)0L005	0249: 0	)0M005	0266: 0	)0N005	0269: 0
)0P005	0270: 0	)0Q005	0276: 0	)0R005	0899: 0	)1J004	0250: 0	)6J004	0110: 0	)6K004	0700: 0
)6L004	0704: 0	)6M004	0728: 0	)8J004	0257: 0	)8K004	0273: 0	)9J004	0281: 0	)9R004	0285: 0
BEGIN3	0838: 0	BEGN14	0849: 0	BNDRY	0848: 0	CDOVLY	0700: 0	CLRLP	0878: 0	CLRLP2	1009: 0
CLRME	0201: 0	CONV5	1194: 0	CONVL	1230: 0	CONVX	1260: 0	DIFF	0845: 0	ERROR2	1356: 0
FREBOT	2599: 0	GMWM	1359: 0	HALT	1190: 0	KB1	1358: 0	KFREE	1308: 0	KLESS	1309: 0
KP1	1357: 0	LOADAD	0838: 0	LOADNX	0700: 0	MORE	0913: 0	NEXTX2	0933: 0	PHAS14	0201: 0
PHASLD	0381: 0	SNAPEX	0564: 0	SNAPSH	0333: 0	TBLBOT	1305: 0	TOCONV	1268: 0	TOOBIG	1160: 0
TOP3	2600: 0	TOPCD9	0840: 0	TOPCOR	0688: 0	TPERR	0728: 0	TPREAD	0704: 0	W5	1314: 0
W6	1320: 0	X1	0089: 0	X2	0094: 0	X3	0099: 0	ZONES	1302: 0		

UNREFERENCED SYMBOLS

PHASLD SNAPEX TOP3 TPERR TPREAD