

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148					* CLEAR FROM BELOW THE BOTTOM TRANSFORMED STATEMENT DOWN						
149					* TO FREBOT.						
150					*						
151	878		CLRLP	CS	0&X3	4		0878	/ 0?0		5
152	882			SBR	X3	4		0882	H 099		5
153	886			C	X3,KFREE	7		0886	C 099 T45		5
154	893			BU	CLRLP	5		0893	B 878 /		5
155					*						
156					* MOVE TRANSFORMED STATEMENTS DOWN TO FREBOT						
157					*						
158	898			SBR	X1,FREBOT	7		0898	H 089 099		5
159	905			MN	0&X1	4		0905	D 0 0		5
160	909			SAR	X1	4		0909	Q 089		6
161	913	MORE		MCM	0&X2	4		0913	P 0 0		6
162	917			SAR	NEXTX2&6	4		0917	Q 939		6
163	921			MCM	0&X2,1&X1 MOVE ONE STATEMENT DOWN	7		0921	P 0 0 0 1		6
164	928			MN		1		0928	D		6
165	929			SBR	X1	4		0929	H 089		6
166	933	NEXTX2		SBR	X2,0	7		0933	H 094 000		6
167	940			BCE	MORE,0&X1, MORE TO DO IF RM	8		0940	B 913 0 0		7
168	948			MN	0&X2	4		0948	D 0 0		7
169	952			CW		1		0952)		7
170	953			SW	0&X1	4		0953	, 0 0		7
171	957			C	X2,TBLBOT DONE MOVING STATEMENTS?	7		0957	C 094 T42		7
172	964			BU	MORE NO	5		0964	B 913 /		7
173					*						
174					* X2 IS NOW AT THE BOTTOM OF THE ARRAY TABLE AND						
175					* X1 IS AT THE TOP OF THE MOVED-DOWN TRANSFORMED CODE						
176					*						
177	969			CW	0&X2 WHY CLEAR THIS WM?	4		0969) 0 0		7
178	973			CW		1		0973)		8
179	974			SBR	TOPCD9,2&X1	7		0974	H 840 0 2		8
180	981			MN	ZONES-32,TOPCD9 99	7		0981	D T07 840		8
181	988			MN		1		0988	D		8
182	989			MCW	TOPCOR,X3	7		0989	M 688 099		8
183	996			MN	0&X3	4		0996	D 0?0		8
184	1 000			SW		1		1000	,		8
185	1 001			SAR	83 TOPCOR-2	4		1001	Q 083		9
186	1 005			SBR	X3	4		1005	H 099		9
187	1 009	CLRLP2		CS	0&X3 CLEAR THE ARRAY TABLE AND	4		1009	/ 0?0		9
188	1 013			SBR	X3 TRANSFORMED CODE AT TOP OF CORE	4		1013	H 099		9
189	1 017			C	X3,TOPCD9 DOWN TO TOP OF CODE & X00 ?	7		1017	C 099 840		9
190	1 024			BU	CLRLP2 NO, MORE TO DO	5		1024	B 09 /		9
191					*						
192					* COMPUTE TOPCD9 (HASH TABLE BASE), DIFF (10 * SIZE OF HASH						
193					* TABLE) AND BNDRY (TOP OF HASH TABLE)						
194					*						
195	1 029			MCW	KLESS,0&X3	7		1029	M T46 0?0		9
196	1 036			MCW	83,TOCONV	7		1036	M 083 T05		10
197	1 043			B	CONV5 CONVERT TOPCOR-1 TO DECIMAL	4		1043	B S31		10

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	1	047		MCW	W5,DIFF	7	1047	M T51	845		10
199	1	054		MCW	TOPCD9,TOCONV CONVERT TOPCD9 TO DECIMAL	7	1054	M 840	T05		10
200	1	061		B	CONV5	4	1061	B S31			10
201	1	065		S	W5,DIFF DIFF = TOPCOR-1 - TOPCD9	7	1065	S T51	845		10
202	1	072		A	DIFF-1,W6 DIFF / 10	7	1072	A 844	T57		11
203	1	079		A	W6 DIFF / 5	4	1079	A T57			11
204	1	083		A	DIFF-1,W6 DIFF / 5 + DIFF / 10 = 3 * DIFF / 10	7	1083	A 844	T57		11
205	1	090		A	W5,W6 TOPCD9 + DIFF * 0.3	7	1090	A T51	T57		11
206	1	097		MCW	W6-3,X3 (TOPCD9 + DIFF * 0.3) / 1000	7	1097	M T54	099		11
207	1	104		A	X3 2 * (TOPCD9 + DIFF * 0.3) / 1000	4	1104	A 099			11
208	1	108		MZ	ZONES-31&X3,W6-2	7	1108	Y T?8	T55		12
209	1	115		MZ	ZONES-30&X3,W6 TO MACHINE ADDRESS	7	1115	Y T?9	T57		12
210	1	122		MCW	W6,X3	7	1122	M T57	099		12
211	1	129		SW	2&X3	4	1129	,	0?2		12
212	1	133		MCW	KLESS	4	1133	M T46			12
213	1	137		SBR	BNDRY	4	1137	H 848			12
214	1	141		MCW	X1,X2	7	1141	M 089	094		13
215	1	148		MN	0&X2	4	1148	D 0!0			13
216	1	152		SAR	X1	4	1152	Q 089			13
217				*							
218				*	DONE						
219				*							
220	1	156		BSS	SNAPSH,C	5	1156	B 333	C		13
221	1	161		SBR	TPREAD&6,BEGINN	7	1161	H 786	849		13
222	1	168		SBR	CLRBOT	4	1168	H 833			13
223	1	172		SBR	LOADXX&3,857	7	1172	H 796	857		13
224	1	179		SBR	CLEARL&3,GMWM	7	1179	H 710	U05		14
225	1	186		LCA	VARBL3,PHASID	7	1186	L T66	110		14
226	1	193		B	LOADNX	4	1193	B 700			14
227				*							
228				*	PROGRAM IS TOO BIG						
229				*							
230	1	197	TOOBIG	CS	332	4	1197	/ 332			14
231	1	201		CS		1	1201	/			14
232	1	202		CC	1	2	1202	F 1			14
233	1	204		MCW	ERROR2,270	7	1204	M U02	270		14
234	1	211		W		1	1211	2			15
235	1	212		CC	1	2	1212	F 1			15
236	1	214		BCE	HALT,CDOVLY,1	8	1214	B S27	769 1		15
237	1	222		RWD	1	5	1222	U %U1	R		15
238	1	227	HALT	H	HALT	4	1227	.	S27		15
239				*							
240				*	CONVERT TOCONV FROM MACHINE TO DECIMAL						
241				*							
242	1	231	CONV5	SBR	CONVX&3	4	1231	H T00			15
243	1	235		MN	TOCONV,W5	7	1235	D T05	T51		15
244	1	242		MN		1	1242	D			16
245	1	243		MN		1	1243	D			16
246	1	244		MCW		1	1244	M			16
247	1	245		MZ	TOCONV,ZONES-32	7	1245	Y T05	T07		16

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	1	252		MZ	TOCONV-2,ZONES-33	7		1252	Y T03 T06		16
249	1	259		NOP	ZONES-34	4		1259	N T05		16
250	1	263		SAR	X3	4		1263	Q 099		16
251	1	267	CONVL	C	4&X3,ZONES-32 LOOK FOR CORRECT ZONES	7		1267	C 0?4 T07		17
252	1	274		SAR	X3	4		1274	Q 099		17
253	1	278		A	KP1,W5-3 ADD ONE TO THOUSANDS	7		1278	A U03 T48		17
254	1	285		BU	CONVL	5		1285	B S67 /		17
255	1	290		MZ	KB1,W5-3	7		1290	Y U04 T48		17
256	1	297	CONVX	B	0	4		1297	B 000		17
257				*							
258				* DATA							
259				*							
260	1	305	TOCONV	DCW	@0J @	5		1305			17
261	1	339	ZONES	DCW	@9999Z9R9I99ZZRZIZ9RZRRRIR9IZIRIII@	34		1339			18
262	1	342	TBLBOT	DCW	#3	3		1342			18
263	1	345	KFREE	DSA	FREBOT	3		1345	O99		19
264	1	346	KLESS	DCW	@<@	1		1346			19
265	1	351	W5	DCW	#5	5		1351			19
266	1	357	W6	DCW	#6	6		1357			19
267	1	366	VARBL3	DCW	@VARBL TRI@	9		1366			19
268	1	402	ERROR2	DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	36		1402			20
269	1	403	KP1	DCW	&1	1		1403			20
270	1	404	KB1	DCW	#1	1		1404			20
271	1	405	GMWM	DCW	@}@	1		1405		GMARK	20
272				ORG	201				0201		
273		203	DSA	LOADDD	LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM	3		0203	838		21
274			EX	BEGINN					B 849		22
275				END					/ 000 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
BEGINN	849	BNDRY	848	CDOVLY	769	CLEARL	707	CLRBOT	833	CLRLP	878	CLRLP2	1009
CONV5	1231	CONVL	1267	CONVX	1297	DIFF	845	ERROR2	1402	FREBOT	2699	GMWM	1405
HALT	1227	KB1	1404	KFREE	1345	KLESS	1346	KP1	1403	LOADDD	838	LOADNX	700
LOADXX	793	MORE	913	NEXTX2	933	PHASID	110	SNAPSH	333	TBLBOT	1342	TOCONV	1305
TOOBIG	1197	TOPCD9	840	TOPCOR	688	TPREAD	780	VARBL3	1366	W5	1351	W6	1357
X1	89	X2	94	X3	99	ZONES	1339						