

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
					* LOAD A BLOCK					GEN			
					*					GEN			
148)6J004	EQU	110 PHASE ID			0110		GEN			
149)6K004	EQU	700 LOAD NEXT PHASE			0700		GEN			
150)6L004	EQU	704 TAPE READ INSTRUCTION			0704		GEN			
151)6M004	EQU	728 TAPE ERROR HANDLER			0728		GEN			
					*					GEN			
152				ORG	201				0201				
153			PHAS5	EQU	*&1			0201		GEN			
154				LCA)9J004,)6J004	7	0201	L 253 110		GEN	2	253	110
155				BCE	)6K004,)6K004,1 Q: LOADING FROM CARDS?	8	0208	B 700 700 1	GEN	2	700	700
156				BCE	)6K004,)6L004&4,0 Q: LOADING FROM AUTOCODER TAPE?	8	0216	B 700 708 0	GEN	2	700	708
157				RTW	1,LOADAD READ THE BLOCK	8	0224	L %U1 |22 R	GEN	2	%U1	1022	
158				BER	)6M004 Q: TAPE ERROR?	5	0232	B 728 L	GEN	2	728	
159				CS	BEGIN5,)9R004 ENTER THE BLOCK	7	0237	/ |22 256	GEN	3	1022	256	
160			)9J004	DCW	@SORTER TWO@ PHASE ID	10	0253		GEN	3		
161				DC	#1	1	0254		GEN	3			
162				DC	@5@ PHASE NUMBER	1	0255		GEN	3			
163			)9R004	DCW	@}@	1	0256		GEN	3		
164				XFR	PHAS5			B 201		3	201		
165					*								
166					* X1 IS THE ADDRESS AT THE BOTTOM OF THE LAST STATEMENT								
167					* X2 IS X1 - 3*(NUMBER OF STATEMENTS)								
168					*								
169				ORG	BEGN4X SAME AS MOKOTOFF V3M0.LST LINE 960				1022				
170			LOADAD	EQU	*&1 LOAD ADDRESS			1022					
171	*1	022	BEGIN5	MCW	X1,X3	7	1022	M 089 099		4	089	099	
172	1	029		SW	GM	4	1029	, S05		4	1205		
173	1	033		MCM	0&X1 ADDRESS AT BOTTOM OF NEXT STATEMENT	4	1033	P 0|0		4	000+1		
174	1	037		MN	ADDRESS OF GM BELOW NEXT STATEMENT	1	1037	D		4			
175	1	038		MN	ADDRESS AT TOP OF THIS STATEMENT	1	1038	D		4			
176	1	039		SAR	X1	4	1039	Q 089		4	089		
177	1	043		LCA	0&X1,STMT SAVE THIS STATEMENT	7	1043	L 0|0 Z19		4	000+1	1919	
178	1	050		MCM	0&X1 ADDRESS AT BOTTOM OF NEXT STATEMENT	4	1050	P 0|0		5	000+1		
179	1	054		SAR	X1	4	1054	Q 089		5	089		
180	1	058		MCM	0&X3,0&X2 MOVE DOWN BY 3*(STATEMENT NUMBER)	7	1058	P 0?0 0!0		5	000+3	000+2	
181	1	065		SBR	X2	4	1065	H 094		5	094		
182	1	069		LCA	STMT&3,1&X2 MOVE AGAIN, THIS TIME WITH ITS GM	7	1069	L Z22 0!1		5	1922	001+2	
183	1	076		S	X3&1 CLEAR X3	4	1076	S 100		5	100		
184	1	080		MCW	0&X2,WORK6 COPY STATEMENT NUMBER AND STMT CODE	7	1080	M 0!0 !05		5	000+2	2005	
185	1	087		MN	WORK6-5,X3 NUMERIC PART OF STATEMENT CODE	7	1087	D !00 099		6	2000	099	
186	1	094		MCW	X3,WORK6-2	7	1094	M 099 !03		6	099	2003	
187	1	101		A	X3	4	1101	A 099		6	099		
188	1	105		A	WORK6-2,X3 X3 = 3*(NUMERIC PART OF STMT CODE)	7	1105	A !03 099		6	2003	099	
189	1	112		BWZ	OVER,WORK6-5,2 STMT TYPE HAS NO ZONE	8	1112	V /57 !00 2		6	1157	2000	
190	1	120		A	KP30,X3	7	1120	A !07 099		7	2007	099	
191	1	127		BWZ	OVER,WORK6-5,S STMT TYPE HAS A ZONE	8	1127	V /57 !00 S		7	1157	2000	
192	1	135		A	KP30,X3	7	1135	A !07 099		7	2007	099	
193	1	142		BM	OVER,WORK6-5 STMT TYPE HAS B ZONE	8	1142	V /57 !00 K		7	1157	2000	
194	1	150		A	KP30,X3	7	1150	A !07 099		7	2007	099	

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195			*										
196			*		HERE X3 IS 30*(ZONE OF STMT CODE) + 3*(NUMERIC PART OF STMT CODE)								
197			*		WORK IS INITIALLY AN ARRAY OF 3-CHARACTER EMPTY FIELDS, BUT								
198			*		WE STORE THE ADDRESS OF EACH RECORD IN TYPTAB&X3, RESULTING IN								
199			*		STATEMENTS OF THE SAME TYPE CODE BEING CHAINED TOGETHER								
200			*										
201	1	157	OVER	MCW	TYPTAB&X3,1&X2 LINK STATEMENT TO NEXT STATEMENT	7		1157	M 8D0 0!1		8	840+3	001+2
202	1	164		LCA	GM,2&X2 MARK BOTTOM OF NEXT STATEMENT	7		1164	L S05 0!2		8	1205	002+2
203	1	171		SBR	TYPTAB&X3 SAVE STATEMENT ADDRESS IN TYPTAB	4		1171	H 8D0		8	840+3	
204	1	175		MCM	2&X2 MOVE X2 ABOVE NEW STATEMENT BOTTOM	4		1175	P 0!2		8	002+2	
205	1	179		SAR	X2	4		1179	Q 094		8	094	
206	1	183		C	X2, TOPCOR DONE?	7		1183	C 094 688		8	094	688
207	1	190		BU	BEGIN5 NO, DO ANOTHER ONE	5		1190	B |22 /		8	1022	
208			*										
209			*		DONE -- LOAD NEXT OVERLAY								
210			*										
211	1	195		BSS	SNAPSH,C	5		1195	B 333 C		9	333	
212	1	214		B	LOADNX	4		1200	B 700		9	700	
213			*										
214			*		DATA								
215			*										
216	1	218		DCW	0	1		1204			9		
217	1	219	GM	DC	@}@	1		1205		GMARK	9		
218				ORG	*&700 SEE MOKOTOFF V3M0.LST LINE 1000				1906				
219			STMT	EQU	*&14 SAVE AREA FOR STATEMENT SEE MOKOTOFF LINE 999			1919					
220				ORG	*&X00 SEE MOKOTOFF V3M0.LST LINE 1001				2000				
221	*		EOTWO	EQU	*&1				2000				
222	2	005	WORK6	DCW	#6	6		2005			10		
223	2	007	KP30	DCW	&30	2		2007			10		
224	2	014	GMWM	DCW	@}@	1		2008		GMARK	10		
225			*										
226				XFR	BEGIN5				B |22		10	1022	
227			*		ORG ORGVB&X00 FROM PHASE 13 VARIABLES PHASE ONE								
228			ORGVBX	EQU	ORGVB&100			2884					
229				ORG	ORGVBX&X00 SEE MOKOTOFF V3M0.LST 1216 AND 2959				2900				
230	*		END5	EQU	*&1			2900					
231			CLRME	CLRA	LOADAD,END5-1					MACRO			
			*		CLRA CLRBOT, CLRTOP [, ORG, GMWMAD]					GEN			
			*							GEN			
			*		CLEAR CORE AFTER A PHASE USING THE CLRTOP ADDRESS					GEN			
			*							GEN			
232				ORG	201				0201				
			*							GEN			
			*		CLEAR DOWN TO CLRBOT & X00 THE EASY WAY					GEN			
			*							GEN			
233			CLRME	EQU	*&1			0201		GEN			
234			)0J005	CS	END5-1 CLEAR FROM CLRTOP	4		0201	/ Q99	GEN	11	2899	
235				SBR	)0J005&3	4		0205	H 204	GEN	11	204	
236				SBR	)0L005&6	4		0209	H 250	GEN	11	250	
237				C	)0J005&3,)0M005 DOWN TO CLRBOT & X00?	7		0213	C 204 261	GEN	11	204	261

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR	
238				BU	)0J005	5		0220	B 201 /	GEN	11	201	
			*							GEN				
			*	NOW CLEAR DOWN TO CLRBOT THE HARD WAY							GEN			
			*							GEN				
239			)0K005	C	)0L005&6,)0N005	7		0225	C 250 264	GEN	11	250	264
240				BU	)0L005	5		0232	B 244 /	GEN	11	244	
241				CS	LOADNX,)0Q005	7		0237	/ 700 271	GEN	12	700	271	
242			)0L005	LCA	)0P005,0-0	7		0244	L 265 000	GEN	12	265	000
243				SBR	)0L005&6	4		0251	H 250	GEN	12	250	
244				B	)0K005	4		0255	B 225	GEN	12	225	
245			)0M005	DSA	)0R005	3		0261	|99	GEN	12	1099	
246			)0N005	DSA	LOADAD	3		0264	|22	GEN	12	1022	
247			)0P005	DCW	#1	1		0265		GEN	12		
248				DC	@CLRA @	5		0270		GEN	12			
249			)0Q005	DCW	@}@	1		0271		GEN	13		
250				ORG	LOADAD&X00				1100					
251			)0R005	EQU	*			1099		GEN			
252				XFR	CLRME				B 201		13	201		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J005	0201: 0	)0K005	0225: 0	)0L005	0244: 0	)0M005	0261: 0	)0N005	0264: 0	)0P005	0265: 0
)0Q005	0271: 0	)0R005	1099: 0	)6J004	0110: 0	)6K004	0700: 0	)6L004	0704: 0	)6M004	0728: 0
)9J004	0253: 0	)9R004	0256: 0	BEGIN5	1022: 0	BEGN4X	1022: 0	CDOVLY	0700: 0	CLRME	0201: 0
END5	2900: 0	EOTWO	2000: 0	GM	1205: 0	GMWM	2008: 0	KP30	2007: 0	LOADAD	1022: 0
LOADNX	0700: 0	ORGVB	2784: 0	ORGVBX	2884: 0	OVER	1157: 0	PHAS5	0201: 0	PHASLD	0381: 0
SNAPEX	0564: 0	SNAPSH	0333: 0	STMT	1919: 0	TOPCOR	0688: 0	TPERR	0728: 0	TPREAD	0704: 0
TYPTAB	0840: 0	WORK6	2005: 0	X1	0089: 0	X2	0094: 0	X3	0099: 0		

UNREFERENCED SYMBOLS

CDOVLY EOTWO GMWM PHASLD SNAPEX TPERR TPREAD