

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
101	1	67		JOB	OBJECT TIME FORMAT								
102			*										
103			*		THIS IS GARY MOKOTOFF'S ORIGINAL LIMITED FORMAT I/O ROUTINE 54B,								
104			*		MODIFIED ONLY TO USE THE REVISED LOADER AND REVISED 54A, AND TO								
105			*		REPLACE GENERATED LITERALS WITH EXPLICIT ONES SO WE CAN MAKE ONE								
106			*		EXTERNAL.								
107			*										
108			*		EXTERNALLY REFERENCED SYMBOLS ARE MARKED WITH ASTERISK IN COLUMN 1.								
109			*										
110			*		SEVERAL PHASES REFER TO ADDRESSES HERE, AND IN OTHER I/O								
111			*		ROUTINES.								
112			*										
113			*		STUFF IN THE RESIDENT AREA								
114			*										
115				EXT00	SNAPSH, LOADNX, CDOVLY								MACRO
116			SNAPSH	EQU	333			0333					GEN
117			PHASLD	EQU	381			0381					GEN
118			SNAPEX	EQU	564			0564					GEN
119			LOADNX	EQU	700			0700					GEN
120			CDOVLY	EQU	700			0700					GEN
121			TPREAD	EQU	704			0704					GEN
122			TPERR	EQU	728			0728					GEN
123			*										
124			X1	EQU	89			0089					
125			X2	EQU	94			0094					
126			X3	EQU	99			0099					
127			*										
128			*		ADDRESS IN FORMAT LOADER								
129			*										
130				XT54A									MACRO
131			LOAD54	EQU	934			0934					GEN
132			SKIPB	EQU	934			0934					GEN
133			SKIPC	EQU	935			0935					GEN
134			SKIPD	EQU	936			0936					GEN
135			SKIP54	EQU	995			0995					GEN
136			GMWM54	EQU	1070			1070					GEN
137			*										
138			PHS54B	LDPH	, FMTBAS, LD54B, SKIPB, SKIP54, 54B								MACRO
			*	PHAZ	LDPH [PHASID], LOADAD, ENTAD[, SKIPFG, SKIP], [NUMBER] [, HALT]								GEN
			*	XFR	PHASZ PROHIBITED IN A MACRO								GEN
			*										GEN
			*		LOAD THE BLOCK IF NO WM IN SKIPB, ELSE SKIP IT								GEN
			*										GEN
139			)6K003	EQU	700			0700					GEN
140			)6L003	EQU	704			0704					GEN
141			)6M003	EQU	728			0728					GEN
142				ORG	201				0201				
143			PHS54B	BSS	)8J003,G		5	0201	B 265 G	GEN	1	265	
144				NOP	TO PATCH IN TRAPS FOR DEBUGGING		1	0206	N	GEN	1		

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
145			)0J003	EQU	*&1			0207		GEN			
146				BW	)2J003,SKIPB	Q: SKIP THE BLOCK?	8	0207	V 258 934 1	GEN	1	258	934
147				BCE	)1J003,)6K003,1	Q: LOADING FROM CARDS?	8	0215	B 251 700 1	GEN	1	251	700
148				BCE	)1J003,)6L003&4,0	Q: LOADING FROM AUTOCODER TAPE?	8	0223	B 251 708 0	GEN	1	251	708
149				RTW	1,FMTBAS	READ THE BLOCK	8	0231	L %U1 W97 R	GEN	1	%U1	1697
150				BER	)6M003	Q: TAPE ERROR?	5	0239	B 728 L	GEN	2	728	
151				CS	LD54B,)9R003	ENTER THE BLOCK	7	0244	/ !22 285	GEN	2	2022	285
152			)1J003	CS	)6K003,)9R003	LOAD CARDS OR AUTOCODER TAPE	7	0251	/ 700 285	GEN	2	700	285
				*	SKIP THE BLOCK					GEN			
153			)2J003	CS	SKIP54,)9R003		7	0258	/ 995 285	GEN	2	995	285
154			)8J003	SW	)9R003		4	0265	, 285	GEN	2	285	
155				MU	%T0,)8K003,W		8	0269	M %T0 281 W	GEN	2	%T0	281
156				H	)0J003		4	0277	. 207	GEN	3	207	
157			)8K003	EQU	*&1			0281		GEN			
158				DCW	#1		1	0281		GEN	3		
159				DC	@54B@	PHASE NUMBER	3	0284		GEN	3		
160			)9R003	DCW	@}@		1	0285		GEN	3		
161				XFR	PHS54B				B 201		4	201	
162			*										
163	1	68		ORG	1697				1697				
164	*1	69	FMTBAS	SBR	X1		4	1697	H 089		5	089	
165	1	70		SW	GPWDMK		4	1701	, !31		5	2031	
166	1	71		CW	0&X1		4	1705	) 0|0		5	000+1	
167	1	72		MCW	X3,SAVX3	SAVE X3	7	1709	M 099 Z99		5	099	1999
168	1	73		LCA	K001,X3		7	1716	L !02 099		5	2002	099
169	1	74		BWZ	WRTAP,0&X1,S	GO TO WRITE TAPE ON ZONE.	8	1723	V Z17 0|0 S		5	1917	000+1
170	1	75		MCW	KR,IO4&7	SET READ TAPE D MODIFIER	7	1731	M !03 Y55		6	2003	1855
171	1	76	RDTAP	MCW	6&X1,LOC		7	1738	M 0|6 !06		6	006+1	2006
172	1	77	IO1	MCW	LOC,IO12&6		7	1745	M !06 X58		6	2006	1758
173	1	78	IO12	BCE	RET,000,.	. IS END OF LIST, RETURN	8	1752	B Z02 000 .		6	1902	000
174	1	79		MA	K006,LOC		7	1760	# !09 !06		6	2009	2006
175	1	80		MCW	LOC,IO15&3		7	1767	M !06 X77		7	2006	1777
176	1	81	IO15	MCW	000,ADDR	ADDR IS LOC OF DATA ADDR	7	1774	M 000 !15		7	000	2015
177	1	82		SW	ADDR-2		4	1781	, !13		7	2013	
178	1	83		MA	K001,ADDR	ADDR IS NOW LOC OF DATA ADDR &1	7	1785	# !02 !15		7	2002	2015
179	1	84		MCW	ADDR,IO2&3		7	1792	M !15 Y02		7	2015	1802
180	1	85	IO2	MCW	000,SAVCH	SAVE CHAR AFTER DATA AREA	7	1799	M 000 !16		7	000	2016
181	1	86		MCW	ADDR,IO3&6		7	1806	M !15 Y19		8	2015	1819
182	1	87	IO3	LCA	GPWDMK,000	MOVE GP MK WD MK TO DATA ADDR &1	7	1813	L !31 000		8	2031	000
183	1	88		MCW	ADDR-3,IO4&6	MOVE FIRST CHAR ADDR OF DATA	7	1820	M !12 Y54		8	2012	1854
184	1	89		MN	0&X1,IO4&3	MOVE TAPE NO.	7	1827	D 0|0 Y51		8	000+1	1851
185	1	90		S	COUNT,COUNT	CLEAR READ-ERROR COUNTER	7	1834	S !17 !17		8	2017	2017
186	1	91		MZ	KA,IO4&5		7	1841	Y !18 Y53		9	2018	1853
187	1	92	IO4	RTW	1,000		8	1848	L %U1 000 R		9	%U1	000
188	1	94		BER	RWT31		5	1856	B Z28 L		9	1928	
189	1	95		MCW	ADDR,IO5&6		7	1861	M !15 Y74		9	2015	1874
190	1	96	IO5	MCW	SAVCH,000	RETURN CHAR AFTER DATA AREA	7	1868	M !16 000		9	2016	000
191	1	97		MA	K001,LOC	STEP TO NEXT VARIABLE IN LIST	7	1875	# !02 !06		10	2002	2006
192	1	98		CW	ADDR-2		4	1882	) !13		10	2013	
193	1	981		BEF	RWT78		5	1886	B Z90 K		10	1990	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	A-ADDR	B-ADDR
194	1	982		MA	K001, LOC	V3M4	7	1891	# !02 !06		10	2002	2006
195	1	99		B	IO1		4	1898	B X45		10	1745	
196	2	00	RET	MCW	SAVX3, X3		7	1902	M Z99 099		10	1999	099
197	2	01		SW	0&X1		4	1909	, 0|0		10	000+1	
198	2	02		B	7&X1		4	1913	B 0|7		11	007+1	
199	2	03	WRTAP	MCW	KW, IO4&7		7	1917	M !19 Y55		11	2019	1855
200	2	04		B	RDTAP		4	1924	B X38		11	1738	
201	2	05	RWT31	BCE	RWT77, COUNT, I		8	1928	B Z83 !17 I		11	1983	2017
202	2	06		MN	IO4&3, *&4		7	1936	D Y51 Z46		11	1851	1946
203	2	07		UB	%U0		5	1943	U %U0 B		11	%U0	
204	2	08		BCE	RWT41, IO4&7, W		8	1948	B Z67 Y55 W		12	1967	1855
205	2	09		A	K1, COUNT		7	1956	A !20 !17		12	2020	2017
206	2	10		B	IO4		4	1963	B Y48		12	1848	
207	2	11	RWT41	MN	IO4&3, *&4		7	1967	D Y51 Z77		12	1851	1977
208	2	12		UE	%U0		5	1974	U %U0 E		12	%U0	
209	2	13		B	IO4		4	1979	B Y48		12	1848	
210	2	14	RWT77	H	*-6, 777		7	1983	. Z83 777		13	1983	777
211	2	15	RWT78	H	*-6, 888		7	1990	. Z90 888		13	1990	888
212			SAVX3	DCW	#03		3	1999			13		
213			K001	DCW	001		3	2002			13		
214			KR	DCW	@R@		1	2003			13		
215			LOC	DCW	#03		3	2006			13		
216			K006	DCW	006		3	2009			13		
217			ADDR	DCW	#06		6	2015			14		
218	*		LIMADR	EQU	ADDR USED IN DIMENSION PHASE 2			2015					
219			SAVCH	DCW	#1		1	2016			14		
220			COUNT	DCW	#1		1	2017			14		
221			KA	DCW	@A@		1	2018			14		
222			KW	DCW	@W@		1	2019			14		
223			K1	DCW	1		1	2020			14		
224	2	16		LTORG	*				2021				
225	2	17		DCW	@ @		1	2021			14		
226			LD54B	CW	LGM		4	2022	) !31		15	2031	
227				BIN	LOADNX,		5	2026	B 700		15	700	
228	2	18	GPWDMK	DCW	@}@		1	2031		GMARK	15		
229	*		LGM	EQU	GPWDMK			2031					
230	2	19		XFR	LD54B				B !22		16	2022	

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J003	0207: 0	)1J003	0251: 0	)2J003	0258: 0	)6K003	0700: 0	)6L003	0704: 0	)6M003	0728: 0
)8J003	0265: 0	)8K003	0281: 0	)9R003	0285: 0	ADDR	2015: 0	CDOVLY	0700: 0	COUNT	2017: 0
FMTBAS	1697: 0	GMWM54	1070: 0	GPWDMK	2031: 0	IO1	1745: 0	IO12	1752: 0	IO15	1774: 0
IO2	1799: 0	IO3	1813: 0	IO4	1848: 0	IO5	1868: 0	K001	2002: 0	K006	2009: 0
K1	2020: 0	KA	2018: 0	KR	2003: 0	KW	2019: 0	LD54B	2022: 0	LGM	2031: 0
LIMADR	2015: 0	LOAD54	0934: 0	LOADNX	0700: 0	LOC	2006: 0	PHASLD	0381: 0	PHS54B	0201: 0
RDTAP	1738: 0	RET	1902: 0	RWT31	1928: 0	RWT41	1967: 0	RWT77	1983: 0	RWT78	1990: 0
SAVCH	2016: 0	SAVX3	1999: 0	SKIP54	0995: 0	SKIPB	0934: 0	SKIPC	0935: 0	SKIPD	0936: 0
SNAPEX	0564: 0	SNAPSH	0333: 0	TPERR	0728: 0	TPREAD	0704: 0	WRTAP	1917: 0	X1	0089: 0
X2	0094: 0	X3	0099: 0								

UNREFERENCED SYMBOLS

CDOVLY GMWM54 LIMADR LOAD54 PHASLD SKIPC SKIPD SNAPEX SNAPSH TPERR TPREAD X2