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CLEAR STORAGE 1 ,008015,022026,030037,044,049,053053N000000N00001026 1
CLEAR STORAGE 2 L068116,105106,110117B101/I9I#071029C029056B026/B001/0991,001/001117I0? 2
BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040 3
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FORTRAN COMPILER -- REPLACE PHASE ONE -- PHASE 51 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101				JOB	FORTRAN COMPILER -- REPLACE PHASE ONE -- PHASE 51						
102				CTL	6611						
103				*							
104				*	OBJECT-TIME INSTRUCTIONS WHICH REFERENCE STATEMENT NUMBERS						
105				*	ARE CORRECTED TO THE OBJECT-TIME ADDRESSES OF THE						
106				*	STATEMENT. SUBSCRIPT STRINGS ARE CLEANED UP.						
107				*							
108			X1	EQU	89			0089			
109			X2	EQU	94			0094			
110			X3	EQU	99			0099			
111				*							
112				*	STUFF IN THE RESIDENT AREA						
113				*							
114			PHASID	EQU	110 PHASE ID, FOR SNAPSHOT DUMPS			0110			
115			SUBSCR	EQU	116 WM CLEARED IF SUBSCRIPT CODE NEEDED			0116			
116			SEQTAB	EQU	148 BOTTOM OF SEQUENCE NUMBER TABLE - 2			0148			
117			BOTFMT	EQU	154 BOTTOM OF FORMAT STRINGS OR NUMBER TABLE - 1			0154			
118			NEGARY	EQU	163 16000 - ARYSIZ			0163			
119			SNAPSH	EQU	333 CORE DUMP SNAPSHOT			0333			
120			LOADNX	EQU	700 LOAD NEXT OVERLAY			0700			
121			CLEARL	EQU	707 CS AT START OF OVERLAY LOADER			0707			
122			LOADXX	EQU	793 EXIT FROM OVERLAY LOADER			0793			
123			CLRBOT	EQU	833 BOTTOM OF CORE TO CLEAR IN OVERLAY LOADER			0833			
124				*							
125				*	RUNTIME ROUTINES						
126				*							
127			ARITF	EQU	700 ARITHMETIC INTERPRETER			0700			
128				*							
129				ORG	838				0838		
130			LOADDD	EQU	*&1 LOAD ADDRESS			0838			
131	838		BEGINN	MCW	X3,SX3	7	0838	M 099 S49			4
132	845			MCW	SEQTAB,*&7	7	0845	M 148 858			4
133	852			MCW	KGREAT,0	7	0852	M S50 000			4
134	859			MCW	BOTFMT,X2	7	0859	M 154 094			4
135	866			MCW	KGREAT,1600	7	0866	M S50 W00			4
136	873		GETSUB	BCE	GETSB2,0&X2,\$ WITHIN TEN OF TOP OF SUBSCRIPT?	8	0873	B 915 0!0 \$			5
137	881			CHAIN	9					MACRO	
138				BCE		1	0881	B		GEN	5
139				BCE		1	0882	B		GEN	5
140				BCE		1	0883	B		GEN	5
141				BCE		1	0884	B		GEN	5
142				BCE		1	0885	B		GEN	5
143				BCE		1	0886	B		GEN	5
144				BCE		1	0887	B		GEN	6
145				BCE		1	0888	B		GEN	6
146				BCE		1	0889	B		GEN	6
147	890		BOTEX	BCE	BOTTOM,0&X2,> GREATER SIGN BELOW CODE?	8	0890	B 15 0!0 >			6

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148		898			CHAIN 9					MACRO	
149					BCE	1		0898	B	GEN	6
150					BCE	1		0899	B	GEN	6
151					BCE	1		0900	B	GEN	6
152					BCE	1		0901	B	GEN	7
153					BCE	1		0902	B	GEN	7
154					BCE	1		0903	B	GEN	7
155					BCE	1		0904	B	GEN	7
156					BCE	1		0905	B	GEN	7
157					BCE	1		0906	B	GEN	7
158		907			SBR X2	4		0907	H 094		7
159		911			B GETSUB	4		0911	B 873		8
160		915	GETSB2	BCE	SUBTOP,0&X2,\$ TOP OF SUBSCRIPT?	8		0915	B 931 0!0 \$		8
161		923			SBR X2	4		0923	H 094		8
162		927			B GETSB2	4		0927	B 915		8
163		931	SUBTOP	MN	0&X2	4		0931	D 0!0		8
164		935			SAR X2	4		0935	Q 094		8
165		939			BCE SUBBOT,0&X2,\$ WITHIN 16 OF BOTTOM OF SUBSCRIPT?	8		0939	B 966 0!0 \$		8
166		947			CHAIN 15					MACRO	
167					BCE	1		0947	B	GEN	9
168					BCE	1		0948	B	GEN	9
169					BCE	1		0949	B	GEN	9
170					BCE	1		0950	B	GEN	9
171					BCE	1		0951	B	GEN	9
172					BCE	1		0952	B	GEN	9
173					BCE	1		0953	B	GEN	9
174					BCE	1		0954	B	GEN	10
175					BCE	1		0955	B	GEN	10
176					BCE	1		0956	B	GEN	10
177					BCE	1		0957	B	GEN	10
178					BCE	1		0958	B	GEN	10
179					BCE	1		0959	B	GEN	10
180					BCE	1		0960	B	GEN	10
181					BCE	1		0961	B	GEN	11
182		962			B GETSUB	4		0962	B 873		11
183		966	SUBBOT	CW	SUBSCR	4		0966) 116		11
184		970	DEC3	MN	0&X2	4		0970	D 0!0		11
185		974			MN	1		0974	D		11
186		975			MN	1		0975	D		11
187		976			SAR X2	4		0976	Q 094		11
188		980			SW 1&X2	4		0980	, 0!1		12
189		984			BCE DEC1,0&X2,\$	8		0984	B 103 0!0 \$		12
190		992			MZ *-4,2&X2	7		0992	Y 994 0!2		12
191		999			B DEC3	4		0999	B 970		12
192	1	003	DEC1	MN	0&X2	4		1003	D 0!0		12
193	1	007			SAR X2	4		1007	Q 094		12
194	1	011			B GETSUB	4		1011	B 873		12
195	1	015	BOTTOM	MCW	APASS2,BOTEX&3	7		1015	M 553 893		13
196	1	022			MCW X3,X2	7		1022	M 099 094		13
197	1	029			B GETSUB	4		1029	B 873		13

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	1	033	PASS2X	BCE	DONE,0&X3,	8		1033	B S10 0?0		13
199	1	041		MCW	X3,LINK&6	7		1041	M 099 /37		13
200	1	048		C	0&X3	4		1048	C 0?0		13
201	1	052		SBR	X2	4		1052	H 094		14
202	1	056		SBR	X3	4		1056	H 099		14
203	1	060		BCE	TARITF,1&X3, TOP OF ARITHMETIC ASSIGNMENT	8		1060	B /74 0?1		14
204	1	068	TESTWM	BW	PASS2X,4&X2	8		1068	V 33 0!4 1		14
205	1	076		BWZ		1		1076	V		14
206	1	077		BWZ		1		1077	V		14
207	1	078		BM	NOLINK,3&X2	8		1078	V /42 0!3 K		14
208	1	086		C	4&X2,A277X3	7		1086	C 0!4 S56		15
209	1	093		BE	PASS2X	5		1093	B 33 S		15
210	1	098		BWZ	ADDLNK,3&X2,B	8		1098	V /17 0!3 B		15
211	1	106	BUMPX2	SBR	X2,3&X2	7		1106	H 094 0!3		15
212	1	113		B	TESTWM	4		1113	B 68		15
213	1	117	ADDLNK	MCW	4&X2,X1 WHY NOT JUST MA 4&X2,LINK&6 ???	7		1117	M 0!4 089		15
214	1	124		MZ	*-6,*&6 X1 TAG	7		1124	Y /24 /36		16
215	1	131	LINK	SBR	4&X2,0	7		1131	H 0!4 000		16
216	1	138		B	BUMPX2	4		1138	B /06		16
217	1	142	NOLINK	MCW	4&X2,X1	7		1142	M 0!4 089		16
218	1	149		MA	NEGARY,X1	7		1149	# 163 089		16
219	1	156		MCW	0&X1,X1	7		1156	M 0!0 089		16
220	1	163		MCW	X1,4&X2	7		1163	M 089 0!4		17
221	1	170		B	BUMPX2	4		1170	B /06		17
222	1	174	TARITF	BW	*&5,2&X3 NEED TO LOOK FOR BRANCH TO ARITF?	8		1174	V /86 0?2 1		17
223	1	182		B	PASS2X	4		1182	B 33		17
224	1	186	FARITF	C	0&X3 FIND THE BRANCH TO ARITF	4		1186	C 0?0		17
225	1	190		SBR	X3	4		1190	H 099		17
226	1	194		C	4&X3,BARITF&3 BRANCH TO ARITHMETIC INTERPRETER?	7		1194	C 0?4 S60		17
227	1	201		BE	PASS2X YES	5		1201	B 33 S		18
228	1	206		B	FARITF NO, LOOK AGAIN	4		1206	B /86		18
229	1	210	DONE	MCW	SX3,X3	7		1210	M S49 099		18
230	1	217		BSS	SNAPSH,C	5		1217	B 333 C		18
231	1	222		SBR	LOADXX&3,934	7		1222	H 796 934		18
232	1	229		SBR	CLEARL&3,GMWM	7		1229	H 710 S71		18
233	1	236		LCA	LOAD52,PHASID	7		1236	L S70 110		19
234	1	243		B	LOADNX	4		1243	B 700		19
235	1	249	SX3	DCW	#3	3		1249			19
236	1	250	KGREAT	DCW	@>@ GREATER THAN SIGN	1		1250			19
237	1	253	APASS2	DSA	PASS2X	3		1253	33		19
238	1	256	A277X3	DSA	277&X3	3		1256	2G7		19
239	1	257	BARITF	B	ARITF	4		1257	B 700		19
240	1	270	LOAD52	DCW	@LOAD 52B&C@	10		1270			20
241	1	271	GMWM	DCW	@}@	1		1271		GMARK	20
242				ORG	201				0201		
243		203		DSA	LOADDD LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM	3		0203	838		21
244				EX	BEGINN				B 838		22
245				END					/ 000 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
A277X3	1256	ADDLNK	1117	APASS2	1253	ARITF	700	BARITF	1257	BEGINN	838	BOTEX	890
BOTFMT	154	BOTTOM	1015	BUMPX2	1106	CLEARL	707	CLRBOT	833	DEC1	1003	DEC3	970
DONE	1210	FARITF	1186	GETSB2	915	GETSUB	873	GMWM	1271	KGREAT	1250	LINK	1131
LOAD52	1270	LOADDD	838	LOADNX	700	LOADXX	793	NEGARY	163	NOLINK	1142	PASS2X	1033
PHASID	110	SEQTAB	148	SNAPSH	333	SUBBOT	966	SUBSCR	116	SUBTOP	931	SX3	1249
TARITF	1174	TESTWM	1068	X1	89	X2	94	X3	99				