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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 -- SUBSCRIPTS PHASE -- 21 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101			JOB		FORTRAN COMPILER -- SUBSCRIPTS PHASE -- 21						
102			CTL		6611						
103			*								
104			*		SUBSCRIPTS WHICH MUST BE COMPUTED AT OBJECT TIME ARE REDUCED						
105			*		TO THE REQUIRED PARAMETERS.						
106			*								
107			*		ON ENTRY, X1 IS THE TOP OF THE PREFIX OF THE TOP STATEMENT						
108			*		AND X2 IS ONE BELOW THE BOTTOM STATEMENT.						
109			*								
110			X1	EQU	89			0089			
111			X2	EQU	94			0094			
112			X3	EQU	99			0099			
113			*								
114			*		STUFF IN THE RESIDENT AREA						
115			*								
116			PHASID	EQU	110 PHASE ID, FOR SNAPSHOT DUMPS			0110			
117			SNAPSH	EQU	333 CORE DUMP SNAPSHOT			0333			
118			LOADNX	EQU	700 LOAD NEXT OVERLAY			0700			
119			CLEARL	EQU	707 CS AT START OF OVERLAY LOADER			0707			
120			*								
121				ORG	838			0838			
122			LOADDD	EQU	*&1 LOAD ADDRESS			0838			
123	838		BEGINN	CS	0&X2 CLEAR BELOW BOTTOM STATEMENT	4		0838 / 0!0			4
124	842			CS		1		0842 /			4
125	843		SBR		X2,1&X1	7		0843 H 094 0 1			4
126	850		SBR		SX1	4		0850 H /94			4
127	854		LOOP	BCE	DONE,0&X1, BELOW BOTTOM STATEMENT	8		0854 B /39 0 0			4
128	862			MCW	0&X1,SEQCOD	7		0862 M 0 0 /98			4
129	869			B	MOVEUP	4		0869 B 64			4
130	873			BCE	ENDST1,SEQCOD-3,/ END STATEMENT?	8		0873 B /31 /95 /			5
131	881			BCE	ENDST1,SEQCOD-3,F FORMAT STATEMENT?	8		0881 B /31 /95 F			5
132	889		SCHSUB	BCE	SUB6,0&X1,\$	8		0889 B 923 0 0 \$			5
133	897			CHAIN	5					MACRO	
134				BCE		1		0897 B		GEN	5
135				BCE		1		0898 B		GEN	5
136				BCE		1		0899 B		GEN	5
137				BCE		1		0900 B		GEN	5
138				BCE		1		0901 B		GEN	6
139	902			BW	ENDSTM,0&X1	8		0902 V /24 0 0 1			6
140	910			CHAIN	5					MACRO	
141				BW		1		0910 V		GEN	6
142				BW		1		0911 V		GEN	6
143				BW		1		0912 V		GEN	6
144				BW		1		0913 V		GEN	6
145				BW		1		0914 V		GEN	6
146	915			SBR	X1	4		0915 H 089			7
147	919			B	SCHSUB	4		0919 B 889			7

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148					*						
149					* GOT X1 TO WITHIN SIX OF A \$, WHICH INDICATES SUBSCRIPTING.						
150					* GET TO IT EXACTLY.						
151					*						
152	923		SUB6	BCE	GOTSUB,0&X1,\$	8	0923	B 939	0 0 \$		7
153	931			SBR	X1	4	0931	H 089			7
154	935			B	SUB6	4	0935	B 923			7
155	939		GOTSUB	SW	0&X1	4	0939	, 0 0			7
156	943			B	MOVE2	4	0943	B /69			7
157	947			MN	0&X1	4	0947	D 0 0			8
158	951			SAR	X1	4	0951	Q 089			8
159	955			B	X1DEC4	4	0955	B 98			8
160	959		MORSUB	SW	2&X1	4	0959	, 0 2			8
161	963			B	MOVE2	4	0963	B /69			8
162	967			B	X1DEC4	4	0967	B 98			8
163	971			BWZ	INTSUB,3&X1,S A ZONE?	8	0971	V 21 0 3 S			8
164	979			BM	INTSUB,3&X1 B ZONE?	8	0979	V 21 0 3 K			9
165					*						
166					* NO ZONE OR AB ZONE MEANS FLOATING POINT SUBSCRIPT						
167					*						
168	987			CS	332	4	0987	/ 332			9
169	991			CS		1	0991	/			9
170	992			SW	184 GLOBAL (?) ERROR FLAG	4	0992	, 184			9
171	996			MN	SEQCOD,250	7	0996	D /98 250			9
172	1 003			MN		1	1003	D			9
173	1 004			MN		1	1004	D			9
174	1 005			MCW	ERR12	4	1005	M \$45			10
175	1 009			W		1	1009	2			10
176	1 010			BCV	*&5	5	1010	B 19 @			10
177	1 015			B	INTSUB	4	1015	B 21			10
178	1 019			CC	1	2	1019	F 1			10
179	1 021		INTSUB	SW	2&X1	4	1021	, 0 2			10
180	1 025			B	MOVE2	4	1025	B /69			10
181	1 029			B	X1DEC4	4	1029	B 98			11
182	1 033			C	1&X1,KDOL	7	1033	C 0 1 \$46			11
183	1 040			BU	MORSUB	5	1040	B 959 /			11
184	1 045			SW	1&X1	4	1045	, 0 1			11
185	1 049			B	MOVE2	4	1049	B /69			11
186	1 053			MCW	X1,X3	7	1053	M 089 099			11
187	1 060			B	SCHSUB	4	1060	B 889			11
188					*						
189					* MOVE UP PREFIX OR TAIL OF STATEMENT						
190					*						
191	1 064		MOVEUP	SBR	MOVEX&3	4	1064	H 97			12
192	1 068			LCA	0&X1,0&X2	7	1068	L 0 0 0 0			12
193	1 075			SAR	X1	4	1075	Q 089			12
194	1 079			C	0&X2	4	1079	C 0 0			12
195	1 083			SAR	X2	4	1083	Q 094			12
196	1 087			MCW	X1,X3	7	1087	M 089 099			12
197	1 094		MOVEX	B	0-0	4	1094	B 000			12

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198			*								
199			* COPY X1 TO X3, THEN DECREMENT X1 BY 4								
200			*								
201	1	098	X1DEC4	SBR	X1DECX&3	4		1098	H /23		13
202	1	102		MCW	X1,X3	7		1102	M 089 099		13
203	1	109		MN	0&X1	4		1109	D 0 0		13
204	1	113		MN		1		1113	D		13
205	1	114		MN		1		1114	D		13
206	1	115		MN		1		1115	D		13
207	1	116		SBR	X1	4		1116	H 089		13
208	1	120	X1DECX	B	0-0	4		1120	B 000		14
209			*								
210			* END OF A STATEMENT								
211			*								
212	1	124	ENDSTM	MCW	X3,X1	7		1124	M 099 089		14
213	1	131	ENDST1	B	MOVEUP MOVE UP TAIL OF STATEMENT	4		1131	B 64		14
214	1	135		B	LOOP	4		1135	B 854		14
215			*								
216			* DONE								
217			*								
218	1	139	DONE	MCW	SX1,X1	7		1139	M /94 089		14
219	1	146		BSS	SNAPSH,C	5		1146	B 333 C		14
220	1	151		SBR	CLEARL&3,GMWM	7		1151	H 710 S56		14
221	1	158		LCA	STNUM1,PHASID	7		1158	L S55 110		15
222	1	165		B	LOADNX	4		1165	B 700		15
223			*								
224			* MOVE UP A CHUNK OF THE STATEMENT								
225			*								
226	1	169	MOVE2	SBR	MOVE2X&3	4		1169	H /91		15
227	1	173		LCA	0&X3,0&X2	7		1173	L 0?0 0!0		15
228	1	180		SBR	X2	4		1180	H 094		15
229	1	184		CW	1&X2	4		1184) 0!1		15
230	1	188	MOVE2X	B	0-0	4		1188	B 000		15
231			*								
232			* DATA								
233			*								
234	1	194	SX1	DCW	#3	3		1194			16
235	1	198	SEQCOD	DCW	#4	4		1198			16
236	1	245	ERR12	DCW	@ERROR 12 - FLOATING POINT SUBSCRIPT, STATEMENT @	47		1245			18
237	1	246	KDOL	DCW	@\$@	1		1246			18
238	1	255	STNUM1	DCW	@STNUM ONE@	9		1255			18
239	1	256	GMWM	DCW	@}@	1		1256		GMARK	18
240			ORG		201				0201		
241		203	DSA	LOADDD	LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM	3		0203	838		19
242			EX		BEGINN				B 838		20
243			END						/ 000 080		

