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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 -- STMT NUMBERS TWO -- PHASE 28 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101			JOB		FORTRAN COMPILER -- STMT NUMBERS TWO -- PHASE 28						
102			CTL		6611						
103			*								
104			*		SAME AS VARIABLES PHASE TWO (14).						
105			*								
106			*		THE ENTIRE SOURCE PROGRAM IS SHIFTED TO THE TOP (LEFTMOST						
107			*		PART) OF AVAILABLE STORAGE, LEAVING ROOM FOR SUBSEQUENT						
108			*		COMPILER PHASES. THE REMAINING STORAGE IS CLEARED FOR						
109			*		TABLES.						
110			*								
111			*		ON ENTRY, 83 IS THE TOP OF CODE IN HIGH CORE AND X2 IS ONE						
112			*		BELOW THE BOTTOM OF CODE IN HIGH CORE.						
113			*								
114			*		ON EXIT, 83 IS ONE BELOW THE TABLES IN HIGH CORE, AND X1 AND						
115			*		X2 ARE THE TOP OF CODE IN LOW CORE.						
116			*								
117			X1	EQU	89			0089			
118			X2	EQU	94			0094			
119			X3	EQU	99			0099			
120			*								
121			*		STUFF IN THE RESIDENT AREA						
122			*								
123			PHASID	EQU	110 PHASE ID, FOR SNAPSHOT DUMPS			0110			
124			SNAPSH	EQU	333 CORE DUMP SNAPSHOT			0333			
125			LOADNX	EQU	700 LOAD NEXT OVERLAY			0700			
126			CLEARL	EQU	707 CS AT START OF OVERLAY LOADER			0707			
127			TPREAD	EQU	780 TAPE READ INSTRUCTION IN OVERLAY LOADER			0780			
128			LOADXX	EQU	793 EXIT FROM OVERLAY LOADER			0793			
129			CLRBOT	EQU	833 BOTTOM OF CORE TO CLEAR IN OVERLAY LOADER			0833			
130			*								
131			BOTCOD	EQU	3199 ONE BELOW BOTTOM OF CODE			3199			
132			*								
133			ORG		838				0838		
134			LOADDD	EQU	*&1 LOAD ADDRESS			0838			
135	840		TOPCD9	DCW	#3 TOP OF CODE & 5 & X00 - 1	3	0840				4
136	846		DIFF16	DCW	#6 16 * (BOTTAB - 1 - TOPCD9)	6	0846				4
137	849		BNDRY	DCW	#3 TOPCD9 + 0.48 * (BOTTAB - 1 - TOPCD9)	3	0849				4
138	852		BOTTAB	DCW	#3 BOTTOM OF TABLES	3	0852				4
139			*								
140			*		MOVE DOWN						
141			*								
142	853		MOVEDN	SBR	MOVEDX&3	4	0853	H 936			4
143	857		MN		0&X1	4	0857	D 0 0			4
144	861		SAR		X1	4	0861	Q 089			4
145	865		MORE	MCM	0&X2	4	0865	P 0 0			5
146	869		SAR		NEWX2&6	4	0869	Q 891			5
147	873		MCM		0&X2,1&X1	7	0873	P 0 0 0 1			5

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148		880		MN		1		0880	D		5
149		881		SBR	X1	4		0881	H 089		5
150		885	NEWX2	SBR	X2,0	7		0885	H 094 000		5
151		892		BCE	MORE,0&X1,	8		0892	B 865 0 0		5
152		900		MN	0&X2	4		0900	D 0!0		6
153		904		CW		1		0904)		6
154		905		SW	0&X1 UNDER THE GM	4		0905	, 0 0		6
155		909		C	X2,BOTTAB	7		0909	C 094 852		6
156		916		BU	MORE	5		0916	B 865 /		6
157		921		MN	0&X1	4		0921	D 0 0		6
158		925		SAR	X1	4		0925	Q 089		6
159		929		SBR	X2 SEQNO OF TOP OF CODE IN LOW CORE	4		0929	H 094		7
160		933	MOVEDX	B	0-0	4		0933	B 000		7
161			*								
162		937	BEGINN	MCW	83,X3 TOP OF CODE	7		0937	M 083 099		7
163		944		SBR	BOTTAB,1&X3 BOTTOM OF TABLES	7		0944	H 852 0?1		7
164		951		MCW	X2,X3	7		0951	M 094 099		7
165		958	CLEAR	CS	0&X3	4		0958	/ 0?0		7
166		962		SBR	X3	4		0962	H 099		7
167		966		C	X3,ABOT DONE?	7		0966	C 099 T10		8
168		973		BU	CLEAR NO	5		0973	B 958 /		8
169		978		SBR	X1,BOTCOD	7		0978	H 089 A99		8
170		985		B	MOVEDN	4		0985	B 853		8
171		989		SBR	TOPCD9,5&X1	7		0989	H 840 0 5		8
172		996		MN	K99,TOPCD9	7		0996	D S75 840		8
173	1	003		MN		1		1003	D		8
174	1	004		MCW	83,X3	7		1004	M 083 099		9
175	1	011	CLEAR2	CS	0&X3	4		1011	/ 0?0		9
176	1	015		SBR	X3	4		1015	H 099		9
177	1	019		C	X3,TOPCD9	7		1019	C 099 840		9
178	1	026		BU	CLEAR2	5		1026	B 11 /		9
179	1	031		MCW	KLESS,0&X3	7		1031	M T11 0?0		9
180	1	038		MCW	83,TOCONV	7		1038	M 083 S73		10
181	1	045		B	CONV	4		1045	B S00		10
182	1	049		MCW	W5,DIFF16	7		1049	M T16 846		10
183	1	056		MCW	TOPCD9,TOCONV	7		1056	M 840 S73		10
184	1	063		B	CONV	4		1063	B S00		10
185	1	067		S	W5,DIFF16	7		1067	S T16 846		10
186	1	074		A	DIFF16	4		1074	A 846		11
187	1	078		A	DIFF16	4		1078	A 846		11
188	1	082		A	DIFF16	4		1082	A 846		11
189	1	086		A	DIFF16 16 * (BOTTAB - 1 - TOPCD9)	4		1086	A 846		11
190	1	090		A	DIFF16-2,W6	7		1090	A 844 T22		11
191	1	097		A	W6	4		1097	A T22		11
192	1	101		A	DIFF16-2,W6 0.48 * (BOTTAB - 1 - TOPCD9)	7		1101	A 844 T22		11
193	1	108		A	W5,W6 TOPCD9 + 0.48 * (BOTTAB - 1 - TOPCD9)	7		1108	A T16 T22		12
194	1	115		MCW	W6-3,X3	7		1115	M T19 099		12
195	1	122		A	X3	4		1122	A 099		12
196	1	126		MZ	ZONES-1&X3,W6-2	7		1126	Y SG6 T20		12
197	1	133		MZ	ZONES&X3,W6	7		1133	Y SG7 T22		12

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	1	140		MCW	W6,X3	7		1140	M T22 099		12
199	1	147		SW	2&X3	4		1147	, 0?2		13
200	1	151		MCW	KLESS	4		1151	M T11		13
201	1	155		SBR	BNDRY	4		1155	H 849		13
202	1	159		BSS	SNAPSH,C	5		1159	B 333 C		13
203	1	164		SBR	TPREAD&6,BEGINN	7		1164	H 786 937		13
204	1	171		SBR	CLRBOT	4		1171	H 833		13
205	1	175		SBR	LOADXX&3,1187	7		1175	H 796 /87		13
206	1	182		SBR	CLEARL&3,BOTCOD	7		1182	H 710 A99		14
207	1	189		LCA	STNUM3,PHASID	7		1189	L T31 110		14
208	1	196		B	LOADNX	4		1196	B 700		14
209				*							
210				*	CONVERT TOCONV TO DECIMAL IN W5						
211				*							
212	1	200	CONV	SBR	CONVX&3	4		1200	H S68		14
213	1	204		MN	TOCONV,W5	7		1204	D S73 T16		14
214	1	211		MN		1		1211	D		14
215	1	212		MN		1		1212	D		14
216	1	213		MCW		1		1213	M		15
217	1	214		MZ	TOCONV,K99	7		1214	Y S73 S75		15
218	1	221		MZ	TOCONV-2,K99-1	7		1221	Y S71 S74		15
219	1	228		SBR	X3,ZONES-4	7		1228	H 099 S73		15
220	1	235	CONVL	C	4&X3,K99	7		1235	C 0?4 S75		15
221	1	242		SAR	X3	4		1242	Q 099		15
222	1	246		A	KP1,W5-3	7		1246	A T32 T13		16
223	1	253		BU	CONVL	5		1253	B S35 /		16
224	1	258		MZ	KB,W5-3	7		1258	Y T33 T13		16
225	1	265	CONVX	B	0-0	4		1265	B 000		16
226				*							
227				*	DATA						
228				*							
229	1	273	TOCONV	DCW	@0J @	5		1273			16
230	1	275	K99	DCW	@99@	2		1275			16
231			ZONES	EQU	*&2			1277			
232	1	307		DC	@99Z9R9I99ZZZRZIZ9RZRRRIR9IZIRIII@	32		1307			17
233	1	310	ABOT	DSA	BOTCOD	3		1310	A99		17
234	1	311	KLESS	DCW	@<@	1		1311			17
235	1	316	W5	DCW	#5	5		1316			18
236	1	322	W6	DCW	#6	6		1322			18
237	1	331	STNUM3	DCW	@STNUM TRI@	9		1331			18
238	1	332	KP1	DCW	&1	1		1332			18
239	1	333	KB	DCW	#1	1		1333			18
240	1	334	GMWM	DCW	@}@	1		1334		GMARK	18
241				ORG	201				0201		
242		203		DSA	LOADDD LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM	3		0203	838		19
243				EX	BEGINN				B 937		20
244				END					/ 000 080		

