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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 -- INPUT/OUTPUT ONE -- PHASE 32 PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101				JOB	FORTRAN COMPILER -- INPUT/OUTPUT ONE -- PHASE 32						
102				CTL	6611						
103				*							
104				*	THE LINKAGE TO THE OBJECT FORMAT ROUTINE FROM THE INPUT-OUTPUT						
105				*	STATEMENTS IS GENERATED IN-LINE.						
106				*							
107				*	ON ENTRY, X1 IS THE TOP OF STATEMENTS, AND X3 IS ONE BELOW						
108				*	THE LABEL TABLE AT THE TOP OF CORE.						
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			GLOBER	EQU	184 GLOBAL ERROR FLAG -- WM MEANS ERROR			0184			
118			SNAPSH	EQU	333 CORE DUMP SNAPSHOT			0333			
119			LOADNX	EQU	700 LOAD NEXT OVERLAY			0700			
120			CLEARL	EQU	707 CS AT START OF OVERLAY LOADER			0707			
121			CDOVLY	EQU	769 1 IF RUNNING FROM CARDS, N IF FROM TAPE			0769			
122				*							
123			BOTFMT	EQU	154 BOTTOM OF FORMAT STRINGS OR NUMBER TABLE - 1			0154			
124				*							
125				ORG	838				0838		
126	838		BEGINN	SW	GM	4	0838		, W27		4
127	842		LOOP	BCE	OTHER,0&X1,	8	0842	B	886 0 0		4
128	850			LCA	0&X1,CODADR	7	0850	L	0 0 W49		4
129	857			CW	FLAG	4	0857)	X57		4
130	861			SW	CODADR-3	4	0861	,	W46		4
131	865			MCW	CODADR-3,*&8	7	0865	M	W46 879		4
132	872			BCE	INTRST,STMTS,0	8	0872	B	12 W56 0		5
133	880			CHAIN	6					MACRO	
134				BCE		1	0880	B		GEN	5
135				BCE		1	0881	B		GEN	5
136				BCE		1	0882	B		GEN	5
137				BCE		1	0883	B		GEN	5
138				BCE		1	0884	B		GEN	5
139				BCE		1	0885	B		GEN	5
140				*							
141				*	CLEAR FROM 0&X3 DOWN TO TOP OF CODE & X00						
142				*							
143	886		OTHER	SBR	X1,1&X1	7	0886	H	089 0 1		6
144	893			MZ	X3,K999X3	7	0893	Y	099 W16		6
145	900			MZ		1	0900	Y			6
146	901			MCW		1	0901	M			6
147	902			MZ	X1,K999X1	7	0902	Y	089 W19		6

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148		909		MZ			1	0909	Y		6
149		910		MCW			1	0910	M		6
150		911		C	K999X3,K999X1		7	0911	C W16 W19		7
151		918		BE	CLRXL		5	0918	B 943 S		7
152		923	CLRL	CS	0&X3		4	0923	/ 0?0		7
153		927		SBR	CLRL&3		4	0927	H 926		7
154		931		C	CLRL&3,K999X1		7	0931	C 926 W19		7
155		938		BU	CLRL		5	0938	B 923 /		7
156		943	CLRXL	MCW	K999X1,X2		7	0943	M W19 094		7
157				*							
158				*	CLEAR FROM TOP OF CODE & X00 DOWN TO TOP OF CODE						
159				*							
160		950	CLRL2	C	X2,X1		7	0950	C 094 089		8
161		957		BE	CLRXL2		5	0957	B 981 S		8
162		962		LCA	KB1,0&X2		7	0962	L X11 0!0		8
163		969		CW	0&X2		4	0969) 0!0		8
164		973		SAR	X2		4	0973	Q 094		8
165		977		B	CLRL2		4	0977	B 950		8
166				*							
167				*	LOAD NEXT OVERLAY						
168				*							
169		981	CLRXL2	MN	0&X1		4	0981	D 0 0		8
170		985		SAR	X1		4	0985	Q 089		9
171		989		BSS	SNAPSH,C		5	0989	B 333 C		9
172		994		SBR	CLEARL&3,GMWM		7	0994	H 710 X58		9
173	1	001		LCA	ARITH1,PHASID		7	1001	L W65 110		9
174	1	008		B	LOADNX		4	1008	B 700		9
175				*							
176				*	INTERESTING STATEMENT -- ONE CONTAINING A FORMAT REFERENCE						
177				*							
178	1	012	INTRST	SW	CODADR-2		4	1012	, W47		9
179	1	016		MCW	KLESS,2&X1		7	1016	M W66 0 2		9
180	1	023		SBR	CHECK&6,2&X1		7	1023	H T55 0 2		10
181	1	030		C	0&X1 GET TO TOP		4	1030	C 0 0		10
182	1	034		SAR	X1 OF STATEMENT BODY		4	1034	Q 089		10
183	1	038		LCA	CODADR,0&X3 MOVE UP CODE AND ADDRESS		7	1038	L W49 0?0		10
184	1	045		LCA	GM AND PUT A GMWM BELOW IT		4	1045	L W27		10
185	1	049		SBR	X3		4	1049	H 099		10
186	1	053		CW	2&X3 UNDER STATEMENT CODE		4	1053) 0?2		10
187	1	057		BWZ	NOFMT,CODADR-1,B		8	1057	V U39 W48 B		11
188	1	065		BCE	RWTP,CODADR-3,1 READ TAPE		8	1065	B /16 W46 1		11
189	1	073		BCE	RWTP,CODADR-3,3 WRITE TAPE		8	1073	B /16 W46 3		11
190	1	081		BCE	RDPRPU,CODADR-3,L READ		8	1081	B V32 W46 L		11
191	1	089		BCE	RDPRPU,CODADR-3,P PRINT		8	1089	B V32 W46 P		12
192	1	097		BCE	RDPRPU,CODADR-3,U PUNCH		8	1097	B V32 W46 U		12
193	1	105		MCW	0&X1,FORMAT READ/WRITE INPUT/OUTPUT TAPE		7	1105	M 0 0 W44		12
194	1	112		SAR	X1		4	1112	Q 089		12
195	1	116	RWTP	MCW	0&X1,TAPVAR TAPE VARIABLE OR CONSTANT		7	1116	M 0 0 W38		12
196	1	123		SAR	X1		4	1123	Q 089		12
197	1	127		MCW	0&X1,IOLSTG I/O LIST AND GMWM		7	1127	M 0 0 W35		13

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	1	134		BCE	CONST,IOLSTG-1,}	8	1134	B T91 W34 }	GMARK	13	
199	1	142		BCE	CONST,TAPVAR-1,}	8	1142	B T91 W37 }	GMARK	13	
200	1	150		MN	K1,TAPCON	7	1150	D W67 X10		13	
201	1	157		BCE	VARNOL,IOLSTG,}	8	1157	B U28 W35 }	GMARK	13	
202	1	165	RWTP2	MCW	0&X1,IOLIST	7	1165	M 0 0 W41		14	
203	1	172		SAR	X1	4	1172	Q 089		14	
204	1	176	RWTP3	LCA	IOLIST,0&X3	7	1176	L W41 0?0		14	
205	1	183		SBR	X3	4	1183	H 099		14	
206	1	187		LCA	FORMAT,0&X3	7	1187	L W44 0?0		14	
207	1	194		SBR	X3	4	1194	H 099		14	
208	1	198		LCA	TAPCON,0&X3	7	1198	L X10 0?0		15	
209	1	205		LCA	DOIO&3 LOAD BRANCH TO START I/O ROUTINE	4	1205	L W31		15	
210	1	209		SBR	X3	4	1209	H 099		15	
211	1	213		BCE	GOTZON,CODADR-3,L READ	8	1213	B S82 W46 L		15	
212	1	221		BCE	GOTZON,CODADR-3,P PRINT	8	1221	B S82 W46 P		15	
213	1	229		BCE	GOTZON,CODADR-3,U PUNCH	8	1229	B S82 W46 U		15	
214	1	237		BCE	GOTZON,CODADR-3,1 READ TAPE	8	1237	B S82 W46 1		16	
215	1	245		MZ	AZONE,5&X3	7	1245	Y W68 0?5		16	
216	1	252		BCE	GOTZON,CODADR-3,3 WRITE TAPE	8	1252	B S82 W46 3		16	
217	1	260		MZ	BZONE,5&X3	7	1260	Y W69 0?5		16	
218	1	267		BCE	GOTZON,CODADR-3,5 READ INPUT TAPE	8	1267	B S82 W46 5		16	
219	1	275		MZ	ABZONE,5&X3	7	1275	Y W70 0?5		17	
220	1	282	GOTZON	BW	NOVAR,FLAG	8	1282	V T23 X57 1		17	
221	1	290		BWZ	NOVAR,TAPVAR-1,2	8	1290	V T23 W37 2		17	
222	1	298		MCW	TAPVAR,MN-3	7	1298	M W38 W23		17	
223	1	305		MZ	KB1,MN-4 CLOBBER INTEGER ZONE TAG	7	1305	Y X11 W22		17	
224	1	312		LCA	MN,0&X3	7	1312	L W26 0?0		18	
225	1	319		SBR	X3	4	1319	H 099		18	
226	1	323	NOVAR	MCW	KB3,IOLSTG	7	1323	M W73 W35		18	
227	1	330		LCA	GM,0&X3	7	1330	L W27 0?0		18	
228	1	337		SBR	X3	4	1337	H 099		18	
229	1	341		C	0&X1	4	1341	C 0 0		18	
230	1	345		SAR	X1	4	1345	Q 089		18	
231	1	349	CHECK	BCE	LOOP,0,< LESS SIGN MEANS CODE NOT CLOBBERED YET	8	1349	B 842 000 <		19	
232				*							
233				*	PROGRAM TOO BIG						
234				*							
235	1	357		CS	332	4	1357	/ 332		19	
236	1	361		CS		1	1361	/		19	
237	1	362		CC	1	2	1362	F 1		19	
238	1	364		MCW	ERROR2,270	7	1364	M X09 270		19	
239	1	371		W		1	1371	2		19	
240	1	372		CC	1	2	1372	F 1		19	
241	1	374		BCE	HALT,CDOVLY,1	8	1374	B T87 769 1		20	
242	1	382		RWD	1	5	1382	U %U1 R		20	
243	1	387	HALT	H	HALT	4	1387	. T87		20	
244				*							
245				*	TAPE NUMBER IS A CONSTANT						
246				*							
247	1	391	CONST	MN	TAPVAR,TAPCON	7	1391	D W38 X10		20	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298			* DATA								
299			*								
300	1	616	K999X3	DSA	999	3	1616	999			27
301	1	619	K999X1	DSA	999	3	1619	999			27
302	1	626	MN	DCW	@DXXX0?5@	7	1626				27
303	1	627	GM	DC	@}@	1	1627			GMARK	27
304	1	628	DOIO	B	1697 ENTRY FOR I/O ROUTINE	4	1628	B W97			27
305	1	635	IOLSTG	DCW	#4	4	1635				27
306	1	638	TAPVAR	DCW	#3 TAPE VARIABLE OR CONSTANT	3	1638				28
307	1	641	IOLIST	DCW	000	3	1641				28
308	1	644	FORMAT	DCW	000	3	1644				28
309	1	649	CODADR	DCW	#5 GM, STATEMENT CODE, ADDRESS	5	1649				28
310	1	656	STMTS	DCW	@1356LPU@ CODES FOR STATEMENTS WITH FORMATS	7	1656				28
311	1	665	ARITH1	DCW	@ARITH ONE@	9	1665				28
312	1	666	KLESS	DCW	@<@	1	1666				28
313	1	667	K1	DCW	1	1	1667				29
314	1	668	AZONE	DCW	@S@	1	1668				29
315	1	669	BZONE	DCW	@K@	1	1669				29
316	1	670	ABZONE	DCW	@B@	1	1670				29
317	1	673	KB3	DCW	#3	3	1673				29
318	1	709	ERROR2	DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	36	1709				30
319	1	710	TAPCON	DCW	#1 TAPE NUMBER CONSTANT	1	1710				30
320	1	711	KB1	DCW	#1	1	1711				30
321	1	714	SEQNO	DCW	#3	3	1714				31
322	1	753	ERR22	DCW	@ERROR 22 - UNDEFINED FORMAT, STATEMENT @	39	1753				32
323	1	754	RDUNIT	DCW	@&@ READ UNIT	1	1754				33
324	1	755	PUUNIT	DCW	@-@ PUNCH UNIT	1	1755				33
325	1	756	PRUNIT	DCW	@*@ PRINT UNIT	1	1756				33
326	1	757	FLAG	DCW	#1	1	1757				33
327	1	758	GMWM	DCW	@}@	1	1758			GMARK	33
328			EX		BEGINN			B 838			34
329			END					/ 000 080			

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ABZONE	1670	ARITH1	1665	AZONE	1668	BEGINN	838	BOTFMT	154	BZONE	1669	CDOVLY	769
CHECK	1349	CLEARL	707	CLRL	923	CLRL2	950	CLRXL	943	CLRXL2	981	CODADR	1649
CONST	1391	CONST2	1421	DOIO	1628	ERR22	1753	ERROR2	1709	FLAG	1757	FORMAT	1644
GLOBER	184	GM	1627	GMWM	1758	GOTZON	1282	HALT	1387	INTRST	1012	IOLIST	1641
IOLSTG	1635	K1	1667	K999X1	1619	K999X3	1616	KB1	1711	KB3	1673	KLESS	1666
LOADNX	700	LOOP	842	MN	1626	NOFMT	1439	NOFMTM	1487	NOVAR	1323	OTHER	886
PHASID	110	PRUNIT	1756	PUUNIT	1755	RDPRP2	1569	RDPRP3	1606	RDPRPU	1532	RDUNIT	1754
RWTP	1116	RWTP2	1165	RWTP3	1176	SEQNO	1714	SNAPSH	333	STMTS	1656	TAPCON	1710
TAPVAR	1638	VARNOL	1428	X1	89	X2	94	X3	99				