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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			0110			
117			GLOBER	EQU	184			0184			
118			SNAPSH	EQU	333			0333			
119			LOADNX	EQU	700			0700			
120			CLEARL	EQU	707			0707			
121			CDOVLY	EQU	769			0769			
122			*								
123			BOTFMT	EQU	154			0154			
124			*								
125			ORG		838				0838		
126			LOADDD	EQU	*&1			0838			
127	838		BEGINN	SW	GM	4		0838	,	W27	4
128	842		LOOP	BCE	OTHER,0&X1,	8	0842	B 886	0 0		4
129	850			LCA	0&X1,CODADR	7	0850	L 0 0	W49		4
130	857			CW	FLAG	4	0857)	X57		4
131	861			SW	CODADR-3	4	0861	,	W46		4
132	865			MCW	CODADR-3,*&8	7	0865	M	W46 879		4
133	872			BCE	INTRST,STMTS,0	8	0872	B 12	W56 0		5
134	880			CHAIN	6					MACRO	
135				BCE		1	0880	B		GEN	5
136				BCE		1	0881	B		GEN	5
137				BCE		1	0882	B		GEN	5
138				BCE		1	0883	B		GEN	5
139				BCE		1	0884	B		GEN	5
140				BCE		1	0885	B		GEN	5
141			*								
142			*		CLEAR FROM 0&X3 DOWN TO TOP OF CODE & X00						
143			*								
144	886		OTHER	SBR	X1,1&X1	7	0886	H 089	0 1		6
145	893			MZ	X3,K999X3	7	0893	Y 099	W16		6
146	900			MZ		1	0900	Y			6
147	901			MCW		1	0901	M			6

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148		902		MZ	X1,K999X1	7		0902	Y 089 W19		6
149		909		MZ		1		0909	Y		6
150		910		MCW		1		0910	M		6
151		911		C	K999X3,K999X1	7		0911	C W16 W19		7
152		918		BE	CLR X	5		0918	B 943 S		7
153		923	CLRL	CS	0&X3	4		0923	/ 0?0		7
154		927		SBR	CLRL&3	4		0927	H 926		7
155		931		C	CLRL&3,K999X1	7		0931	C 926 W19		7
156		938		BU	CLRL	5		0938	B 923 /		7
157		943	CLR X	MCW	K999X1,X2	7		0943	M W19 094		7
158				*							
159				*	CLEAR FROM TOP OF CODE & X00 DOWN TO TOP OF CODE						
160				*							
161		950	CLRL2	C	X2,X1	7		0950	C 094 089		8
162		957		BE	CLR X2	5		0957	B 981 S		8
163		962		LCA	KB1,0&X2	7		0962	L X11 0!0		8
164		969		CW	0&X2	4		0969) 0!0		8
165		973		SAR	X2	4		0973	Q 094		8
166		977		B	CLRL2	4		0977	B 950		8
167				*							
168				*	LOAD NEXT OVERLAY						
169				*							
170		981	CLR X2	MN	0&X1	4		0981	D 0!0		8
171		985		SAR	X1	4		0985	Q 089		9
172		989		BSS	SNAPSH,C	5		0989	B 333 C		9
173		994		SBR	CLEARL&3,GMWM	7		0994	H 710 X58		9
174	1	001		LCA	ARITH1,PHASID	7		1001	L W65 110		9
175	1	008		B	LOADNX	4		1008	B 700		9
176				*							
177				*	INTERESTING STATEMENT -- ONE CONTAINING A FORMAT REFERENCE						
178				*							
179	1	012	INTRST	SW	CODADR-2	4		1012	, W47		9
180	1	016		MCW	KLESS,2&X1	7		1016	M W66 0!2		9
181	1	023		SBR	CHECK&6,2&X1	7		1023	H T55 0!2		10
182	1	030		C	0&X1 GET TO TOP	4		1030	C 0!0		10
183	1	034		SAR	X1 OF STATEMENT BODY	4		1034	Q 089		10
184	1	038		LCA	CODADR,0&X3 MOVE UP CODE AND ADDRESS	7		1038	L W49 0?0		10
185	1	045		LCA	GM AND PUT A GMWM BELOW IT	4		1045	L W27		10
186	1	049		SBR	X3	4		1049	H 099		10
187	1	053		CW	2&X3 UNDER STATEMENT CODE	4		1053) 0?2		10
188	1	057		BWZ	NOFMT,CODADR-1,B	8		1057	V U39 W48 B		11
189	1	065		BCE	RWTP,CODADR-3,1 READ TAPE	8		1065	B /16 W46 1		11
190	1	073		BCE	RWTP,CODADR-3,3 WRITE TAPE	8		1073	B /16 W46 3		11
191	1	081		BCE	RDPRPU,CODADR-3,L READ	8		1081	B V32 W46 L		11
192	1	089		BCE	RDPRPU,CODADR-3,P PRINT	8		1089	B V32 W46 P		12
193	1	097		BCE	RDPRPU,CODADR-3,U PUNCH	8		1097	B V32 W46 U		12
194	1	105		MCW	0&X1,FORMAT READ/WRITE INPUT/OUTPUT TAPE	7		1105	M 0!0 W44		12
195	1	112		SAR	X1	4		1112	Q 089		12
196	1	116	RWTP	MCW	0&X1,TAPVAR TAPE VARIABLE OR CONSTANT	7		1116	M 0!0 W38		12
197	1	123		SAR	X1	4		1123	Q 089		12

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198	1	127		MCW	0&X1,IOLSTG I/O LIST AND GMWM	7		1127	M 0 0 W35		13
199	1	134		BCE	CONST,IOLSTG-1,} TAPE NUMBER CONST WITH I/O LIST	8		1134	B T91 W34 }	GMARK	13
200	1	142		BCE	CONST,TAPVAR-1,} TAPE NUMBER CONST, NO I/O LIST	8		1142	B T91 W37 }	GMARK	13
201	1	150		MN	K1,TAPCON	7		1150	D W67 X10		13
202	1	157		BCE	VARNOL,IOLSTG,} TAPE NUMBER VAR, NO I/O LIST	8		1157	B U28 W35 }	GMARK	13
203	1	165	RWTP2	MCW	0&X1,IOLIST	7		1165	M 0 0 W41		14
204	1	172		SAR	X1	4		1172	Q 089		14
205	1	176	RWTP3	LCA	IOLIST,0&X3	7		1176	L W41 0?0		14
206	1	183		SBR	X3	4		1183	H 099		14
207	1	187		LCA	FORMAT,0&X3	7		1187	L W44 0?0		14
208	1	194		SBR	X3	4		1194	H 099		14
209	1	198		LCA	TAPCON,0&X3	7		1198	L X10 0?0		15
210	1	205		LCA	DOIO&3 LOAD BRANCH TO START I/O ROUTINE	4		1205	L W31		15
211	1	209		SBR	X3	4		1209	H 099		15
212	1	213		BCE	GOTZON,CODADR-3,L READ	8		1213	B S82 W46 L		15
213	1	221		BCE	GOTZON,CODADR-3,P PRINT	8		1221	B S82 W46 P		15
214	1	229		BCE	GOTZON,CODADR-3,U PUNCH	8		1229	B S82 W46 U		15
215	1	237		BCE	GOTZON,CODADR-3,1 READ TAPE	8		1237	B S82 W46 1		16
216	1	245		MZ	AZONE,5&X3	7		1245	Y W68 0?5		16
217	1	252		BCE	GOTZON,CODADR-3,3 WRITE TAPE	8		1252	B S82 W46 3		16
218	1	260		MZ	BZONE,5&X3	7		1260	Y W69 0?5		16
219	1	267		BCE	GOTZON,CODADR-3,5 READ INPUT TAPE	8		1267	B S82 W46 5		16
220	1	275		MZ	ABZONE,5&X3	7		1275	Y W70 0?5		17
221	1	282	GOTZON	BW	NOVAR,FLAG	8		1282	V T30 X57 1		17
222	1	290		BWZ	NOVAR,TAPVAR-1,2	8		1290	V T30 W37 2		17
223	1	298		MCW	TAPVAR,MN-3	7		1298	M W38 W23		17
224	1	305		MZ	KB1,MN-4 CLOBBER INTEGER ZONE TAG	7		1305	Y X11 W22		17
225	1	312		LCA	MN,0&X3	7		1312	L W26 0?0		18
226	1	319		SBR	X3	4		1319	H 099		18
227	1	323		MCW	KB3,TAPVAR	7		1323	M W73 W38		18
228	1	330	NOVAR	LCA	GM,0&X3	7		1330	L W27 0?0		18
229	1	337		SBR	X3	4		1337	H 099		18
230	1	341		C	0&X1	4		1341	C 0 0		18
231	1	345		SAR	X1	4		1345	Q 089		18
232	1	349	CHECK	BCE	LOOP,0,< LESS SIGN MEANS CODE NOT CLOBBERED YET	8		1349	B 842 000 <		19
233				*							
234				*	PROGRAM TOO BIG						
235				*							
236	1	357		CS	332	4		1357	/ 332		19
237	1	361		CS		1		1361	/		19
238	1	362		CC	1	2		1362	F 1		19
239	1	364		MCW	ERROR2,270	7		1364	M X09 270		19
240	1	371		W		1		1371	2		19
241	1	372		CC	1	2		1372	F 1		19
242	1	374		BCE	HALT,CDOVLY,1	8		1374	B T87 769 1		20
243	1	382		RWD	1	5		1382	U %01 R		20
244	1	387	HALT	H	HALT	4		1387	. T87		20
245				*							
246				*	TAPE NUMBER IS A CONSTANT						
247				*							

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
248	1	391	CONST	MN	TAPVAR,TAPCON	7		1391	D W38 X10		20
249	1	398		SW	FLAG	4		1398	, X57		20
250	1	402		BCE	CONST2,TAPVAR-1,}	8		1402	B U21 W37 }	GMARK	20
251	1	410		SBR	X1,2&X1	7		1410	H 089 0 2		21
252	1	417		B	RWTP2	4		1417	B /65		21
253	1	421	CONST2	SBR	X1,1&X1	7		1421	H 089 0 1		21
254				*							
255				*	TAPE IS VARIABLE, BUT THERE IS NO LIST						
256				*							
257	1	428	VARNOL	MCW	BOTFMT,IOLIST	7		1428	M 154 W41		21
258	1	435		B	RWTP3	4		1435	B /76		21
259				*							
260				*	NO FORMAT						
261				*							
262	1	439	NOFMT	MZ	KB1,3&X3	7		1439	Y X11 0?3		21
263	1	446		MCW	4&X3,SEQNO	7		1446	M 0?4 X14		22
264	1	453		BWZ	*&5,SEQNO,2	8		1453	V U65 X14 2		22
265	1	461		B	*&9	4		1461	B U73		22
266	1	465		BWZ	NOFMTM,SEQNO-2,2	8		1465	V U87 X12 2		22
267	1	473		MCW	SEQNO,*&4	7		1473	M X14 U83		22
268	1	480		MCW	0,SEQNO	7		1480	M 000 X14		23
269	1	487	NOFMTM	CS	332	4		1487	/ 332		23
270	1	491		CS		1		1491	/		23
271	1	492		SW	GLOBER	4		1492	, 184		23
272	1	496		MN	SEQNO,242	7		1496	D X14 242		23
273	1	503		MN		1		1503	D		23
274	1	504		MN		1		1504	D		23
275	1	505		MCW	ERR22	4		1505	M X53		24
276	1	509		W		1		1509	2		24
277	1	510		BCV	*&5	5		1510	B V19 @		24
278	1	515		B	*&3	4		1515	B V21		24
279	1	519		CC	1	2		1519	F 1		24
280	1	521		MZ	*-4,CODADR-1	7		1521	Y V23 W48		24
281	1	528		B	RWTP	4		1528	B /16		24
282				*							
283				*	READ, PRINT, PUNCH						
284				*							
285	1	532	RDPRPU	MCW	0&X1,FORMAT	7		1532	M 0 0 W44		25
286	1	539		SAR	X1	4		1539	Q 089		25
287	1	543		MCW	BOTFMT,IOLIST	7		1543	M 154 W41		25
288	1	550		BCE	RDPRP2,0&X1,}	8		1550	B V69 0 0 }	GMARK	25
289	1	558		MCW	0&X1,IOLIST	7		1558	M 0 0 W41		25
290	1	565		SAR	X1	4		1565	Q 089		25
291	1	569	RDPRP2	MCW	RDUNIT,TAPCON ASSUME READ	7		1569	M X54 X10		26
292	1	576		BCE	RDPRP3,CODADR-3,L READ	8		1576	B W06 W46 L		26
293	1	584		MCW	PUUNIT,TAPCON ASSUME PUNCH	7		1584	M X55 X10		26
294	1	591		BCE	RDPRP3,CODADR-3,U PUNCH	8		1591	B W06 W46 U		26
295	1	599		MCW	PRUNIT,TAPCON	7		1599	M X56 X10		26
296	1	606	RDPRP3	SW	FLAG	4		1606	, X57		27
297	1	610		B	RWTP3	4		1610	B /76		27

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
298			*								
299			* DATA								
300			*								
301	1	616	K999X3	DSA	999	3	1616	999			27
302	1	619	K999X1	DSA	999	3	1619	999			27
303	1	626	MN	DCW	@DXXX0?5@	7	1626				27
304	1	627	GM	DC	@}@	1	1627			GMARK	27
305	1	628	DOIO	B	1697 ENTRY FOR I/O ROUTINE	4	1628	B W97			27
306	1	635	IOLSTG	DCW	#4	4	1635				27
307	1	638	TAPVAR	DCW	#3 TAPE VARIABLE OR CONSTANT	3	1638				28
308	1	641	IOLIST	DCW	000	3	1641				28
309	1	644	FORMAT	DCW	000	3	1644				28
310	1	649	CODADR	DCW	#5 GM, STATEMENT CODE, ADDRESS	5	1649				28
311	1	656	STMTS	DCW	@1356LPU@ CODES FOR STATEMENTS WITH FORMATS	7	1656				28
312	1	665	ARITH1	DCW	@ARITH ONE@	9	1665				28
313	1	666	KLESS	DCW	@<@	1	1666				28
314	1	667	K1	DCW	1	1	1667				29
315	1	668	AZONE	DCW	@S@	1	1668				29
316	1	669	BZONE	DCW	@K@	1	1669				29
317	1	670	ABZONE	DCW	@B@	1	1670				29
318	1	673	KB3	DCW	#3	3	1673				29
319	1	709	ERROR2	DCW	@MESSAGE 2 - OBJECT PROGRAM TOO LARGE@	36	1709				30
320	1	710	TAPCON	DCW	#1 TAPE NUMBER CONSTANT	1	1710				30
321	1	711	KB1	DCW	#1	1	1711				30
322	1	714	SEQNO	DCW	#3	3	1714				31
323	1	753	ERR22	DCW	@ERROR 22 - UNDEFINED FORMAT, STATEMENT @	39	1753				32
324	1	754	RDUNIT	DCW	@&@ READ UNIT	1	1754				33
325	1	755	PUUNIT	DCW	@-@ PUNCH UNIT	1	1755				33
326	1	756	PRUNIT	DCW	@*@ PRINT UNIT	1	1756				33
327	1	757	FLAG	DCW	#1	1	1757				33
328	1	758	GMWM	DCW	@}@	1	1758			GMARK	33
329			ORG		201			0201			
330		203	DSA	LOADDD	LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM	3	0203	838			34
331			EX	BEGINN				B 838			35
332			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
LOADDD	838	LOADNX	700	LOOP	842	MN	1626	NOFMT	1439	NOFMTM	1487	NOVAR	1330
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		