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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 -- OVERLAY LOADER

PAGE 1

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101				JOB	FORTTRAN COMPILER -- OVERLAY LOADER						
102				CTL	6611						
103				*							
104				*	XLINKF LOADER - FUNCTION I.						
105				*							
106				*	INPUTS ARE IN 84-86, (274..279)&X3 AND MAYBE EXIT&(1..3).						
107				*							
108				*	IF THE CHARACTER ADDRESSED BY 84-86 IS \$, CLEAR FROM 3+(CONTENTS						
109				*	OF 84-86) DOWN TO DOWNT0, ELSE CLEAR FROM TOP OF CORE.						
110				*							
111				*	IF THE TARGET IN (274..279)&X3 IS ZERO WITH SOME ZONE, LOAD FROM						
112				*	CARDS. IF THE TARGET IS NEGATIVE OR BLANK, LOAD THE FIRST RECORD						
113				*	FROM TAPE AT 1 AND BRANCH TO 1. OTHERWISE HUNT FOR IT, AND WHEN						
114				*	FOUND LOAD THE NEXT BLOCK AT 333 AND THE ONE AFTER THAT AT 700,						
115				*	AND BRANCH TO THE ADDRESS STORED INTO EXIT&3.						
116				*							
117				X1	EQU 89			0089			
118				X2	EQU 94			0094			
119				X3	EQU 99			0099			
120				*							
121				TARGET	EQU 279&X3			0279	X		
122				*							
123				ORG	333				0333		
124	333		HALT	H	HALT	4	0333	.	333		4
125	337		MCW	86,X2		7	0337	M	086 094		4
126	344		CS	80		4	0344	/	080		4
127	348		BCE	SETCLR,0&X2,\$	SET THE CLEAR ADDRESS	8	0348	B	585 0!0 \$		4
128				*							
129				*	CLEAR FROM TOP OF CORE OR THE SPECIFIED CLEAR ADDRESS DOWN TO						
130				*	DOWNT0.						
131				*							
132	356		CLEAR	CS	0	4	0356	/	000		4
133	360		SBR	CLEAR&3		4	0360	H	359		4
134	364		C	CLEAR&3,DOWNT0		7	0364	C	359 645		4
135	371		BU	CLEAR		5	0371	B	356 /		5
136	376		SW	TARGET-5		4	0376	,	2G4		5
137	380		MZ	TARGET,KZ6		7	0380	Y	2G9 642		5
138	387		C	KZ6,TARGET		7	0387	C	642 2G9		5
139	394		BE	CDLOOP	TARGET IS ZERO WITH SOME ZONE	5	0394	B	603 S		5
140	399		BM	LOAD1,TARGET	TARGET IS NEGATIVE	8	0399	V	620 2G9 K		5
141	407		MZ	KZ6-5,TARGET	CLEAR ZONE OF LOW-ORDER TARGET CHAR	7	0407	Y	637 2G9		6
142	414		C	BLANKS,TARGET		7	0414	C	699 2G9		6
143	421		BE	LOAD1	TARGET IS BLANKS	5	0421	B	620 S		6
144				*							
145				*	SET GMWM IN 22						
146				*							
147	426		SW	22		4	0426	,	022		6

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
148	430			MCW	GM,22	7		0430	M 680 022		6
149			*								
150			*	HUNT	FOR LIB IN 8-10 AND THE TARGET (TARGET) IN 12-17						
151			*								
152	437		HUNT	RT	1,1	8		0437	M %U1 001 R		6
153	445			BEF	ENDFIL	5		0445	B 478 K		7
154	450			C	10,LIB	7		0450	C 010 648		7
155	457			BU	HUNT	5		0457	B 437 /		7
156	462			C	17,TARGET	7		0462	C 017 2G9		7
157	469			BE	FOUND	5		0469	B 498 S		7
158	474			B	HUNT	4		0474	B 437		7
159			*								
160			*	END	OF FILE. CHANGE THE NOP TO A HALT AND BRANCH TO LOAD						
161			*	FROM	CARDS, THEN REWIND THE TAPE AND HUNT AGAIN. THEREBY, THE						
162			*	TAPE	IS ONLY SEARCHED TWICE.						
163			*								
164	478		ENDFIL	NOP	CDLOOP BECOMES H CDLOOP	4		0478	N 603		7
165	482			MCW	ERRHLT,ENDFIL	7		0482	M 581 478		8
166	489			RWD	1	5		0489	U %U1 R		8
167	494			B	HUNT	4		0494	B 437		8
168			*								
169			*	FOUND	THE TARGET						
170			*	LOAD	THE NEXT BLOCK AT 333 AND THE ONE AFTER THAT AT 700,						
171			*	THEN	BRANCH TO THE ADDRESS PLUGGED INTO EXIT&3						
172			*								
173	498		FOUND	LCA	KZ6-1,101 CLEAR	7		0498	L 641 101		8
174	505			LCA	KZ6-1 INDEX	4		0505	L 641		8
175	509			LCA	KZ6-1 REGISTERS	4		0509	L 641		8
176	513			RTW	1,333 HOPE SHORT ENOUGH NOT TO CLOBBER US	8		0513	L %U1 333 R		8
177	521			BER	TAPERR	5		0521	B 557 L		9
178	526			MCW	KZ6-5,KZ6-1	7		0526	M 637 641		9
179	533			SBR	TAPERX&3,READ2	7		0533	H 580 540		9
180	540		READ2	B	READ2X V3M4	4		0540	B 649		9
181	544		READ2R	MN	0-0 V3M4	4		0544	D 000		9
182	548			SW	V3M4	1		0548	,		9
183	549			NOP	V3M4	1		0549	N		9
184	550			NOP	V3M4	1		0550	N		10
185	552			DCW	@NL@ V3M4	2		0552			10
186	553		EXIT	B	0	4		0553	B 000		10
187	557		TAPERR	A	K1,KZ6-1	7		0557	A 679 641		10
188	564			BCE	ERRHLT,KZ6-1,9 NINE ERRORS?	8		0564	B 581 641 9		10
189	572			BSP	1	5		0572	U %U1 B		10
190	577		TAPERX	B	FOUND	4		0577	B 498		10
191	581		ERRHLT	H	ERRHLT	4		0581	. 581		11
192			*								
193			*	SET	THE CLEAR START ADDRESS						
194			*								
195	585		SETCLR	MCW	3&X2,CLEAR&3	7		0585	M 0:3 359		11
196	592			MZ	KZ6-5,CLEAR&2	7		0592	Y 637 358		11
197	599			B	CLEAR	4		0599	B 356		11

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
198			*								
199			*		TARGET IS 00000X WHERE X IS ZERO WITH SOME ZONE.						
200			*		READ CARDS UNTIL ONE WITH COMMA (SW) IN COLUMN 1 IS FOUND,						
201			*		THEN BRANCH TO IT.						
202			*								
203	603		CDLOOP	SW	1	4		0603	, 001		11
204	607			R		1		0607	1		11
205	608			BCE	1,1,,	8		0608	B 001 001 ,		11
206	616			B	CDLOOP	4		0616	B 603		12
207			*								
208			*		LOAD A BLOCK INTO 1 AND BRANCH TO IT						
209			*								
210	620		LOAD1	RWD	1	5		0620	U %U1 R		12
211	625			RTW	1,1	8		0625	L %U1 001 R		12
212	633			B	1	4		0633	B 001		12
213			*								
214			*		DATA						
215			*								
216	642		KZ6	DCW	000000	6		0642			12
217	645		DOWNTO	DSA	BLANKS	3		0645	699		12
218	648		LIB	DCW	@LIB@	3		0648			12
219	649		READ2X	RTW	1,700	8		0649	L %U1 700 R		13
220	657			SBR	READ2R&3	4		0657	H 547		13
221	661			BER	TAPERR	5		0661	B 557 L		13
222	666			B	READ2R	4		0666	B 544		13
223	678			DC	#9	9		0678			13
224	679		K1	DCW	@1@	1		0679			13
225	680		GM	DC	@}@	1		0680		GMARK	13
226	699		BLANKS	DC	#19	19		0699			14
227				EX					B 000		15
228				END					/ 000 080		

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
BLANKS	699	CDLOOP	603	CLEAR	356	DOWNT0	645	ENDFIL	478	ERRHLT	581	EXIT	553
FOUND	498	GM	680	HALT	333	HUNT	437	K1	679	KZ6	642	LIB	648
LOAD1	620	READ2	540	READ2R	544	READ2X	649	SETCLR	585	TAPERR	557	TAPERX	577
TARGET	279+X3	X1	89	X2	94	X3	99						