```
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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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD

 101               JOB
 102               CTL   6611
 103         *
 104         X1    EQU   89                                                      0089
 105         X2    EQU   94                                                      0094
 106         X3    EQU   99                                                      0099
 107         *
 108         * XLINKF LOADER - FUNCTION I.
 109         *
 110         * INPUTS ARE IN 84-86, (274..279)&X3 AND MAYBE EXIT&(1..3).
 111         *
 112         * IF THE CHARACTER ADDRESSED BY 84-86 IS $, CLEAR FROM 3+(CONTENTS
 113         * OF 84-86) DOWN TO DOWNTO, ELSE CLEAR FROM TOP OF CORE.
 114         *
 115         * IF THE TARGET IN (274..279)&X3 IS ZERO WITH SOME ZONE, LOAD FROM
 116         * CARDS.  IF THE TARGET IS NEGATIVE OR BLANK, LOAD THE FIRST RECORD
 117         * FROM TAPE AT 1 AND BRANCH TO 1.  OTHERWISE HUNT FOR IT, AND WHEN
 118         * FOUND LOAD THE NEXT BLOCK AT 333 AND THE ONE AFTER THAT AT 700,
 119         * AND BRANCH TO THE ADDRESS STORED INTO EXIT&3.
 120         *
 121         TARGET EQU   279&X3                                                 0279 X
 122         *
 123               ORG   333                                                          0333
 124    333  HALT   H     HALT                                              4  0333  . 333                4
 125    337         MCW   86,X2                                             7  0337  M 086 094            4
 126    344         CS    80                                                4  0344  / 080                 4
 127    348         BCE   SETCLR,0&X2,$  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         * DOWNTO.
 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,DOWNTO                                    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
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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   HALT,ENDFIL                                         7  0482  M 333 478            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  RTW   1,700                                               8  0540  L %U1 700 R          9
181    548         BER   TAPERR                                              5  0548  B 557 L              9
182    553  EXIT   B     0                                                   4  0553  B 000                9
183    557  TAPERR A     K1,KZ6-1                                            7  0557  A 679 641           10
184    564         BCE   ERRHLT,KZ6-1,9  NINE ERRORS?                       8  0564  B 581 641 9         10
185    572         BSP   1                                                   5  0572  U %U1 B              10
186    577  TAPERX B     FOUND                                               4  0577  B 498                10
187    581  ERRHLT H     ERRHLT                                              4  0581  . 581                10
188         *
189         * SET THE CLEAR START ADDRESS
190         *
191    585  SETCLR MCW   3&X2,CLEAR&3                                        7  0585  M 0!3 359            10
192    592         MZ    KZ6-5,CLEAR&2                                       7  0592  Y 637 358            11
193    599         B     CLEAR                                               4  0599  B 356                11
194         *
195         * TARGET IS 00000X WHERE X IS ZERO WITH SOME ZONE.
196         * READ CARDS UNTIL ONE WITH COMMA (SW) IN COLUMN 1 IS FOUND,
197         * THEN BRANCH TO IT.
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

198         *
199    603  CDLOOP SW    1                                           4  0603  , 001               11
200    607         R                                                 1  0607  1                   11
201    608         BCE   1,1,,                                       8  0608  B 001 001 ,         11
202    616         B     CDLOOP                                      4  0616  B 603               11
203         *
204         * LOAD A BLOCK INTO 1 AND BRANCH TO IT
205         *
206    620  LOAD1  RWD   1                                           5  0620  U %U1 R             11
207    625         RTW   1,1                                         8  0625  L %U1 001 R         12
208    633         B     1                                           4  0633  B 001               12
209         *
210         * DATA
211         *
212    642  KZ6    DCW   000000                                      6  0642                      12
213    645  DOWNTO DSA   699                                         3  0645  699                 12
214    648  LIB    DCW   @LIB@                                       3  0648                      12
215    678         DC    #30                                        30  0678                      13
216    679  K1     DCW   @1@                                         1  0679                      13
217    680  GM     DC    @"@                                         1  0680              GMARK   13
218    699  BLANKS DC    #19                                        19  0699                      14
219                END                                                    / 000 080
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
BLANKS	699	CDLOOP	603	CLEAR	356	DOWNTO	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	SETCLR	585	TAPERR	557	TAPERX	577	TARGET	279+X3	X1	89
X2	94	X3	99										