```
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   FORTRAN 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 $, CLEAR FROM 3+(CONTENTS
 109         * OF 84-86) DOWN TO DOWNTO, ELSE CLEAR FROM TOP OF CORE.
 110         *
 111         * IF THE TARGET IN (274..279)&X3 IS ZERO WITH SOME ZONE, LOAD FROM
 112         * CARDS.  IF THE TARGET IS NEGATIVE OR BLANK, LOAD THE FIRST RECORD
 113         * FROM TAPE AT 1 AND BRANCH TO 1.  OTHERWISE HUNT FOR IT, AND WHEN
 114         * FOUND LOAD THE NEXT BLOCK AT 333 AND THE ONE AFTER THAT AT 700,
 115         * AND BRANCH TO THE ADDRESS STORED INTO EXIT&3.
 116         *
 117         X1     EQU   89                                                    0089
 118         X2     EQU   94                                                    0094
 119         X3     EQU   99                                                    0099
 120         *
 121         TARGET EQU   279&X3                                                0279 X
 122         *
 123               ORG   333                                                          0333
 124    333  HALT   H     HALT                                              4  0333  . 333                4
 125    337         MCW   86,X2                                             7  0337  M 086 094            4
 126    344         CS    80                                                4  0344  / 080                4
 127    348         BCE   SETCLR,0&X2,$  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         * 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   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
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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                                     V3M4   8  0649  L %U1 700 R          13
220    657          SBR   READ2R&3                                  V3M4   4  0657  H 547               13
221    661          BER   TAPERR                                    V3M4   5  0661  B 557 L             13
222    666          B     READ2R                                    V3M4   4  0666  B 544               13
223    678          DC    #9                                        V3M4   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
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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	READ2R	544	READ2X	649	SETCLR	585	TAPERR	557	TAPERX	577
TARGET	279+X3	X1	89	X2	94	X3	99						