```
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

                          FORTRAN COMPILER -- OVERLAY LOADER                                    PAGE    1

 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 $, CLEAR FROM 3+(CONTENTS
 109         * OF 84-86) DOWN TO DOWNTO, ELSE CLEAR FROM TOP OF CORE.
 110         *
 111         * IF THE TARGET IN (274..279)&X3 IS ZERO WITH SOME ZONE, LOAD FROM
 112         * CARDS.  IF THE TARGET IS NEGATIVE OR BLANK, LOAD THE FIRST RECORD
 113         * FROM TAPE AT 1 AND BRANCH TO 1.  OTHERWISE HUNT FOR IT, AND WHEN
 114         * FOUND LOAD THE NEXT BLOCK AT 333 AND THE ONE AFTER THAT AT 700,
 115         * AND BRANCH TO THE ADDRESS STORED INTO EXIT&3.
 116         *
 117         X1     EQU   89                                                  0089
 118         X2     EQU   94                                                  0094
 119         X3     EQU   99                                                  0099
 120         *
 121         * ADDRESS IN PHASE 61
 122         *
 123         AFTOVL EQU   1020  RETURN HERE AFTER LOADING THIS MODULE         1020
 124         *
 125         TARGET EQU   279&X3                                              0279 X
 126         BLANKS EQU   699                                                 0699
 127         *
 128               ORG   333                                                        0333
 129    333  HALT   H     HALT                                           4  0333  . 333                4
 130    337         MCW   86,X2                                          7  0337  M 086 094            4
 131    344         CS    80                                             4  0344  / 080                4
 132    348         BCE   SETCLR,0&X2,$  SET THE CLEAR ADDRESS           8  0348  B 585 0!0 $          4
 133         *
 134         * CLEAR FROM TOP OF CORE OR THE SPECIFIED CLEAR ADDRESS DOWN TO
 135         * DOWNTO.
 136         *
 137    356  CLEAR  CS    0                                              4  0356  / 000                4
 138    360         SBR   CLEAR&3                                        4  0360  H 359                4
 139    364         C     CLEAR&3,DOWNTO                                 7  0364  C 359 645            4
 140    371         BU    CLEAR                                          5  0371  B 356 /              5
 141    376         SW    TARGET-5                                       4  0376  , 2G4                5
 142    380         MZ    TARGET,KZ6                                     7  0380  Y 2G9 642            5
 143    387         C     KZ6,TARGET                                     7  0387  C 642 2G9            5
 144    394         BE    CDLOOP         TARGET IS ZERO WITH SOME ZONE   5  0394  B 603 S              5
 145    399         BM    LOAD1,TARGET   TARGET IS NEGATIVE              8  0399  V 620 2G9 K          5
 146    407         MZ    KZ6-5,TARGET   CLEAR ZONE OF LOW-ORDER TARGET CHAR  7  0407  Y 637 2G9        6
 147    414         C     BLANKS,TARGET                                  7  0414  C 699 2G9            6
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SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
148    421         BE    LOAD1          TARGET IS BLANKS               5  0421  B 620 S              6
149         *
150         * SET GMWM IN 22
151         *
152    426         SW    22                                            4  0426  , 022               6
153    430         MCW   GMWM,22                                       7  0430  M 680 022           6
154         *
155         * HUNT FOR LIB IN 8-10 AND THE TARGET (TARGET) IN 12-17
156         *
157    437  HUNT   RT    1,1                                           8  0437  M %U1 001 R         6
158    445         BEF   ENDFIL                                        5  0445  B 478 K             7
159    450         C     10,LIB                                        7  0450  C 010 648           7
160    457         BU    HUNT                                          5  0457  B 437 /             7
161    462         C     17,TARGET                                     7  0462  C 017 2G9           7
162    469         BE    FOUND                                         5  0469  B 498 S             7
163    474         B     HUNT                                          4  0474  B 437               7
164         *
165         * END OF FILE.  CHANGE THE NOP TO A HALT AND BRANCH TO LOAD
166         * FROM CARDS, THEN REWIND THE TAPE AND HUNT AGAIN.  THEREBY, THE
167         * TAPE IS ONLY SEARCHED TWICE.
168         *
169    478  ENDFIL NOP   CDLOOP  BECOMES  H    CDLOOP                  4  0478  N 603               7
170    482         MCW   ERRHLT,ENDFIL                          V3M4   7  0482  M 581 478           8
171    489         RWD   1                                             5  0489  U %U1 R             8
172    494         B     HUNT                                          4  0494  B 437               8
173         *
174         * FOUND THE TARGET
175         * LOAD THE NEXT BLOCK AT 333 AND THE ONE AFTER THAT AT 700,
176         * THEN BRANCH TO THE ADDRESS PLUGGED INTO EXIT&3
177         *
178    498  FOUND  LCA   KZ6-1,101  CLEAR                             7  0498  L 641 101           8
179    505         LCA   KZ6-1        INDEX                          4  0505  L 641               8
180    509         LCA   KZ6-1          REGISTERS                    4  0509  L 641               8
181    513         RTW   1,333      HOPE SHORT ENOUGH NOT TO CLOBBER US  8  0513  L %U1 333 R       8
182    521         BER   TAPERR                                        5  0521  B 557 L             9
183    526         MCW   KZ6-5,KZ6-1                                 7  0526  M 637 641           9
184    533         SBR   TAPERX&3,READ2                              7  0533  H 580 540           9
185    540  READ2  B     READ2X                                V3M4   4  0540  B 649               9
186    544  READ2R MN    0-0                                   V3M4   4  0544  D 000               9
187    548         SW                                           V3M4   1  0548  ,                   9
188    549         NOP                                          V3M4   1  0549  N                   9
189    550         NOP                                          V3M4   1  0550  N                  10
190    552         DCW   @NL@                                   V3M4   2  0552                     10
191    553  EXIT   B     0                                             4  0553  B 000               10
192    557  TAPERR A     K1,KZ6-1                                      7  0557  A 679 641           10
193    564         BCE   ERRHLT,KZ6-1,9  NINE ERRORS?                 8  0564  B 581 641 9         10
194    572         BSP   1                                           5  0572  U %U1 B             10
195    577  TAPERX B     FOUND                                         4  0577  B 498               10
196    581  ERRHLT H     ERRHLT                                        4  0581  . 581               11
197         *
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SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
198         * SET THE CLEAR START ADDRESS
199         *
200    585  SETCLR MCW   3&X2,CLEAR&3                                        7  0585  M 0!3 359           11
201    592         MZ    KZ6-5,CLEAR&2                                      7  0592  Y 637 358           11
202    599         B     CLEAR                                              4  0599  B 356               11
203         *
204         * TARGET IS 00000X WHERE X IS ZERO WITH SOME ZONE.
205         * READ CARDS UNTIL ONE WITH COMMA (SW) IN COLUMN 1 IS FOUND,
206         * THEN BRANCH TO IT.
207         *
208    603  CDLOOP SW    1                                                  4  0603  , 001              11
209    607         R                                                       1  0607  1                   11
210    608         BCE   1,1,,                                             8  0608  B 001 001 ,         11
211    616         B     CDLOOP                                            4  0616  B 603               12
212         *
213         * LOAD A BLOCK INTO 1 AND BRANCH TO IT
214         *
215    620  LOAD1  RWD   1                                                  5  0620  U %U1 R             12
216    625         RTW   1,1                                               8  0625  L %U1 001 R         12
217    633         B     1                                                 4  0633  B 001               12
218         *
219         * DATA
220         *
221    642  KZ6    DCW   000000                                            6  0642                      12
222    645  DOWNTO DSA   699                                               3  0645  699                 12
223    648  LIB    DCW   @LIB@                                            3  0648                      12
224    649  READ2X RTW   1,700                                     V3M4    8  0649  L %U1 700 R         13
225    657         SBR   READ2R&3                                   V3M4    4  0657  H 547               13
226    661         BER   TAPERR                                     V3M4    5  0661  B 557 L             13
227    666         B     READ2R                                     V3M4    4  0666  B 544               13
228    678         DC    #9                                         V3M4    9  0678                      13
229    679  K1     DCW   @1@                                               1  0679                      13
230    680  GMWM   DCW   @}@                                               1  0680              GMARK   13
231               EX    AFTOVL                                                    B |20                 14
232               END                                                             / 000 080
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
AFTOVL	1020	BLANKS	699	CDLOOP	603	CLEAR	356	DOWNTO	645	ENDFIL	478	ERRHLT	581
EXIT	553	FOUND	498	GMWM	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				