```
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

                                                                                          PAGE    1

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

 101                JOB
 102                CTL   6611
 103         *
 104         * DEMO PROGRAM.
 105         * 1.  COPY CARDS TO TAPE 4
 106         * 2.  COPY TAPE 4 TO TAPE 6
 107         * 3.  COPY TAPE 6 TO THE PRINTER
 108         *
 109         * ORIGINAL ONLY WORKS ON 4K SYSTEM, AND EVEN THEN ON SYSTEMS ON
 110         * WHICH ADDRESSES WRAP AROUND AT 4K -- SUBTRACTING TEN FROM X3 IS
 111         * DONE BY ADDING 3990, NOT 15990.
 112         *
 113         CORE   EQU   4000                                                        4000
 114         AM6    EQU   CORE-6   FOR SUBTRACTING 6 FROM X3                          3994
 115         AM10   EQU   CORE-10  FOR SUBTRACTING 10 FROM X3                         3990
 116         AM13   EQU   CORE-13  FOR SUBTRACTING 13 FROM X3                         3987
 117         *
 118         X3     EQU   99                                                          0099
 119                ORG   1                                                                 0001
 120      1         SW    GM                                                       4  0001  , 881              4
 121      5         B     START                                                    4  0005  B 401              4
 122      9         H                                                              1  0009  .                  4
 123     10         WTW   1,1                                                      8  0010  L %U1 001 W        4
 124     18         H                                                              1  0018  .                  4
 125     68         DCW   @.0123456789012345678901234567890123456789012345678@    50  0068                     6
 126     80         DC    @901234567890@                                          12  0080                     6
 127     86         DC    @      @                                                 6  0086                     6
 128     91         DCW   #5                                                       5  0091                     6
 129     96         DCW   #5                                                       5  0096                     6
 130     99         DSA   CP46E                                                    3  0099  732                7
 131    149         DC    @                                                  @    50  0149                     9
 132    199         DC    @                                                  @    50  0199                    11
 133    249         DC    @ 6789012345678901234567890123456789012345678901234@    50  0249                    13
 134    280         DC    @5678901234567890123456789012345@                       31  0280                    14
 135         *
 136         * COPY CARDS TO TAPE 4
 137         *
 138                ORG   401                                                               0401
 139    401  START  B     R1                                                       4  0401  B 521             15
 140    405  ERRTST BER   TAPERR                                                   5  0405  B 440 L           15
 141    410         BEF   WTM1                                                     5  0410  B 477 K           15
 142    415         BLC   WTM1                                                     5  0415  B 477 A           15
 143    420         SRF                                                            1  0420  8                 15
 144    421  MVCARD MCW   80,SVCARD                                                7  0421  M 080 880         15
 145    428         WT    4,BUF                                                    8  0428  M %U4 801 W       15
 146    436         B     R2                                                       4  0436  B 527             16
 147    440  TAPERR BSP   4                                                        5  0440  U %U4 B           16
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SEQ PG LIN  LABEL  OP    OPERANDS                                                 SFX CT  LOCN  INSTRUCTION TYPE  CARD

148    445         BEF   WTM1                                                          5  0445  B 477 K             16
149    450         SKP   4                                                             5  0450  U %U4 E             16
150    455         WT    4,BUF                                                         8  0455  M %U4 801 W         16
151    463         BER   TAPERR                                                        5  0463  B 440 L             16
152    468         B     MVCARD                                                        4  0468  B 421               16
153    472  WTMERR BSP   4                                                             5  0472  U %U4 B             17
154    477  WTM1   WTM   4                                                             5  0477  U %U4 M             17
155    482         BER   WTMERR                                                        5  0482  B 472 L             17
156    487         WTM   4                                                             5  0487  U %U4 M             17
157    492         RWD   4                                                             5  0492  U %U4 R             17
158    497         B     CP46                                                          4  0497  B 701               17
159    520         DCW   #20                                                          20  0520                      18
160    521  R1     R                                                                   1  0521  1                   18
161    522         SSB   MVCARD,1                                                      5  0522  K 421 1             18
162    527  R2     R                                                                   1  0527  1                   18
163    528         SSB   ERRTST,1                                                      5  0528  K 405 1             18
164         *
165         * COPY TAPE 6 TO THE PRINTER
166         *
167                ORG   601                                                                 0601
168    601  PRINT6 RT    6,BUF                                                         8  0601  M %U6 801 R         19
169    609         BER   TPERR                                                         5  0609  B 901 L             19
170    614         BEF   FIN                                                           5  0614  B 630 K             19
171    619         MCW   SVCARD,280                                                    7  0619  M 880 280           19
172    626         W     PRINT6                                                        4  0626  2 601               19
173    630  FIN    CC    1                                                             2  0630  F 1                 19
174    632         RWU   6                                                             5  0632  U %U6 U             19
175    637         H                                                                   1  0637  .                   20
176    638         BIN   PRINT6,                                                       5  0638  B 601               20
177         *
178         * COPY TAPE 4 TO TAPE 6
179         *
180                ORG   701                                                                 0701
181    701  CP46   RT    4,BUF                                                         8  0701  M %U4 801 R         21
182    709         BER   TPERR                                                         5  0709  B 901 L             21
183    714         BEF   WTM2                                                          5  0714  B 741 K             21
184    719         WT    6,BUF                                                         8  0719  M %U6 801 W         21
185    727         BER   TPERR                                                         5  0727  B 901 L             21
186    732  CP46E  BEF   WTM2                                                          5  0732  B 741 K             21
187    737         B     CP46                                                          4  0737  B 701               22
188    741  WTM2   WTM   6                                                             5  0741  U %U6 M             22
189    746         BER   TPERR2                                                        5  0746  B 964 L             22
190    751         WTM   6                                                             5  0751  U %U6 M             22
191    756         BER   TPERR2                                                        5  0756  B 964 L             22
192    761         RWU   4                                                             5  0761  U %U4 U             22
193    766         RWD   6                                                             5  0766  U %U6 R             22
194    771         B     PRINT6                                                        4  0771  B 601               23
195                ORG   801                                                                 0801
196         BUF    EQU   *&1                                                              0801
197    850         DCW   @67890123456789012345678901234567890123456789012345@         50  0850                      25
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SEQ PG LIN  LABEL  OP    OPERANDS                                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

198    880  SVCARD DC    @67890123456789012345678901234 5@                               30  0880                     26
199    881  GM     DC    @}@                                                              1  0881              GMARK  26
200         *
201         * TAPE ERROR ROUTINE
202         *
203                ORG   901                                                                     0901
204    901  TPERR  SBR   X3                                                               4  0901  H 099              27
205    905         NOP   0,0                                                              7  0905  N 000 000          27
206    912         SW    BSP&3,SKP&3                                                      7  0912  , 943 956          27
207    919         MCW   AM10&X3,BSP&3      MOVE UNIT NUMBER TO BSP                       7  0919  M II0 943          27
208    926         MCW   AM10&X3,SKP&3        AND SKP                                     7  0926  M II0 956          27
209    933         CW    BSP&3,SKP&3                                                      7  0933  ) 943 956          27
210    940  BSP    BSP   6                                                                5  0940  U %U6 B            28
211    945         BCE   *&6,AM6&X3,R       DO NOT SKP IF READING                         8  0945  B 958 II4 R        28
212    953  SKP    SKP   6                                                                5  0953  U %U6 E            28
213    958         B     AM13&X3                                                          4  0958  B IH7              28
214    962         DCW   13                                                               2  0963                     28
215         *
216         * ANOTHER TAPE ERROR ROUTINE
217         *
218         * EITHER THERE IS AN ERROR IN TRANSCRIPTION, OR THIS CODE HAS
219         * NEVER BEEN EXECUTED, OR ADDRESSING WORKS DIFFERENTLY FROM
220         * EXPECTED -- BLANK WITH AB ZONE IN THE TENS DIGIT OF AN ADDRESS
221         * IS APPARENTLY INTERPRETED TO BE ZERO WITH X3 SELECTED.  ALSO,
222         * SUBTRACTING 996 FROM X3 APPEARS TO BE NONSENSE.
223         *
224    964  TPERR2 SBR   X3                                                               4  0964  H 099              28
225    968         S     996,X3                                                           7  0968  S 996 099          28
226    981         DCW   @M0&3988@                                                        7  0981                     29
227    982         BSP   0                                                                5  0982  U %U0 B            29
228    991         DCW   @B0&0 @                                                          5  0991                     29
229                ORG   994                                                                     0994
230    994         DCW   10                                                               2  0995                     30
231         *
232         * WRITE THE PROGRAM ON TAPE 1
233         *
234                DCW   @}@                                                              1  0996              GMARK  30
235         LOAD   LCA   INDEX,80                                                         7  0997  L /18 080          30
236                LCA   LINK,19                                                          7  1004  L |38 019          30
237                CHAIN 5                                                                                     MACRO
238                LCA                                                                    1  1011  L           GEN    30
239                LCA                                                                    1  1012  L           GEN    30
240                LCA                                                                    1  1013  L           GEN    30
241                LCA                                                                    1  1014  L           GEN    31
242                LCA                                                                    1  1015  L           GEN    31
243                B     10                                                               4  1016  B 010              31
244                SW    GM                                                               4  1020  , 881              31
245                B     START                                                            4  1024  B 401              31
246                H                                                                      1  1028  .                  31
247                WTW   1,1                                                              8  1029  L %U1 001 W        31
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SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD

248                H                                                            1  1037  .                   32
249         LINK   H                                                            1  1038  .                   32
250                DCW   @1234567890123456789012345678901234567890@            40  1078                      34
251         INDEX  DC    @1234567890123456789012345678901234567890@            40  1118                      36
252                END   LOAD                                                        / 997 080
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
AM10	3990	AM13	3987	AM6	3994	BSP	940	BUF	801	CORE	4000	CP46	701
CP46E	732	ERRTST	405	FIN	630	GM	881	INDEX	1118	LINK	1038	LOAD	997
MVCARD	421	PRINT6	601	R1	521	R2	527	SKP	953	START	401	SVCARD	880
TAPERR	440	TPERR	901	TPERR2	964	WTM1	477	WTM2	741	WTMERR	472	X3	99