```
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 -- LIST PHASE ONE -- PHASE 25
 102               CTL   6611
 103         *
 104         * DUPLICATE LISTS ARE CHECKED AND ELIMINATED TO OPTIMIZE
 105         * STORAGE AT OBJECT TIME.
 106         *
 107         * ON ENTRY, X1 IS THE TOP OF STATEMENTS IN LOW CORE, X3 IS
 108         * ONE BELOW THE FORMAT STRINGS OR NUMBER TABLE, AND 81-83
 109         * IS ONE BELOW THE FORMAT STRINGS OR NUMBER TABLE.
 110         *
 111         X1     EQU   89                                                    0089
 112         X2     EQU   94                                                    0094
 113         X3     EQU   99                                                    0099
 114         *
 115         * STUFF IN THE RESIDENT AREA
 116         *
 117         PHASID EQU   110  PHASE ID, FOR SNAPSHOT DUMPS                    0110
 118         BOTFMT EQU   154  BOTTOM OF FORMAT STRINGS OR NUMBER TABLE - 1    0154
 119         NEGARY EQU   163  16000 - ARYSIZ                                  0163
 120         GLOBER EQU   184  GLOBAL ERROR FLAG -- WM MEANS ERROR             0184
 121         SNAPSH EQU   333  CORE DUMP SNAPSHOT                              0333
 122         FMTSW  EQU   696  X FOR NO FORMAT, L FOR LIMITED FORMAT           0696
 123         *                 BLANK FOR ORDINARY, A FOR A CONVERSION
 124         LOADNX EQU   700  LOAD NEXT OVERLAY                               0700
 125         CLEARL EQU   707  CS AT START OF OVERLAY LOADER                    0707
 126         TPREAD EQU   780  TAPE READ INSTRUCTION IN OVERLAY LOADER          0780
 127         CLRBOT EQU   833  BOTTOM OF CORE TO CLEAR IN OVERLAY LOADER        0833
 128         *
 129               ORG   838                                                         0838
 130         LOADDD EQU   *&1          LOAD ADDRESS                            0838
 131     841 SEQCOD DCW   #4                                                4    0841                        4
 132     844 SX1    DCW   #3                                                3    0844                        4
 133     845 BEGINN MCW   X1,SX1                                            7    0845  M 089 844             4
 134     852        MCW   83,X2                                             7    0852  M 083 094             4
 135     859        LCA   DOT,0&X2                                          7    0859  L S13 0!0             4
 136     866        CW    0&X2                                              4    0866  ) 0!0                 4
 137     870        SBR   83                                                4    0870  H 083                 4
 138     874        SBR   BOTFMT,0&X2                                       7    0874  H 154 0!0             5
 139     881        MA    NEGARY,BOTFMT                                     7    0881  # 163 154             5
 140     888 LOOP   BCE   DONE,0&X1,  BELOW BOTTOM STATEMENT                 8    0888  B /68 0|0             5
 141     896        MCW   0&X1,SEQCOD                                       7    0896  M 0|0 841             5
 142     903        MCW   X1,SX1B&6                                         7    0903  M 089 /63             5
 143     910        MCW   SEQCOD-3,*&8                                      7    0910  M 838 924             6
 144     917        BCE   IOSTMT,STMTS,0  I/O STATEMENT?                    8    0917  B 935 S20 0           6
 145     925        CHAIN 6                                                                          MACRO
 146               BCE                                                     1    0925  B             GEN     6
 147               BCE                                                     1    0926  B             GEN     6
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                        FORTRAN COMPILER -- LIST PHASE ONE -- PHASE 25                              PAGE    2

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

 148                BCE                                                        1  0927  B           GEN      6
 149                BCE                                                        1  0928  B           GEN      6
 150                BCE                                                        1  0929  B           GEN      6
 151                BCE                                                        1  0930  B           GEN      7
 152    931         B     DONE  I/O STATEMENTS ARE SORTED TOGETHER              4  0931  B /68               7
 153         *
 154         * FOUND AN I/O STATEMENT
 155         *
 156    935  IOSTMT C     0&X1  GET DOWN                                       4  0935  C 0|0               7
 157    939         SAR   X1      TO BODY                                     4  0939  Q 089               7
 158    943         B     GETCOM  GET X1 DOWN TO A COMMA                      4  0943  B |88               7
 159    947         CW    114                                                 4  0947  ) 114               7
 160    951         BCE   *&5,FMTSW,L  LIMITED FORMAT ROUTINE?                8  0951  B 963 696 L         7
 161    959         CW    115                                                 4  0959  ) 115               8
 162    963         SW    0&X1    UNDER THE COMMA                             4  0963  , 0|0               8
 163    967         SAR   X1                                                  4  0967  Q 089               8
 164    971         MCW   SX1,X3  TOP OF STATEMENTS                           7  0971  M 844 099           8
 165    978  TWOWM  C     0&X3  SKIP TWO                                      4  0978  C 0?0               8
 166    982         C             WORD MARKS                                  1  0982  C                   8
 167    983         SAR   X3                                                  4  0983  Q 099               8
 168    987         BCE   TWOWM,1&X3,}                                       8  0987  B 978 0?1 } GMARK   9
 169    995         C     X1,X3                                               7  0995  C 089 099           9
 170  1 002         BU    CHKLST                                              5  1002  B |19 /             9
 171  1 007  STMBOT C     0&X1                                                4  1007  C 0|0               9
 172  1 011         SAR   X1                                                  4  1011  Q 089               9
 173  1 015         B     LOOP                                                4  1015  B 888               9
 174  1 019  CHKLST C     0&X1,0&X3                                           7  1019  C 0|0 0?0           9
 175  1 026         BU    GETGM  LISTS ARE DIFFERENT                          5  1026  B |68 /            10
 176  1 031         C     0&X3,0&X1                                           7  1031  C 0?0 0|0          10
 177  1 038         BU    GETGM  LISTS ARE DIFFERENT                          5  1038  B |68 /            10
 178  1 043         BW    SYNTAX,0&X1                                         8  1043  V /16 0|0 1        10
 179  1 051         BWZ                                                       1  1051  V                  10
 180  1 052         BWZ                                                       1  1052  V                  10
 181  1 053         LCA   X3,0&X1  LINK IDENTICAL LISTS TOGETHER              7  1053  L 099 0|0          10
 182  1 060         SBR   X1                                                  4  1060  H 089              11
 183  1 064         B     STMBOT                                              4  1064  B |07              11
 184         *
 185         * LISTS ARE UNEQUAL.  GET X3 DOWN TO A GMWM
 186         *
 187  1 068  GETGM  C     0&X3  SKIP ONE                                      4  1068  C 0?0              11
 188  1 072         SAR   X3      WORD MARK                                   4  1072  Q 099              11
 189  1 076         BCE   TWOWM,1&X3,}                                        8  1076  B 978 0?1 } GMARK  11
 190  1 084         B     GETGM                                               4  1084  B |68              11
 191         *
 192         * GET COMMA
 193         *
 194  1 088  GETCOM SBR   GETCMX&3                                            4  1088  H /03              11
 195  1 092  SCHCOM BW    STMBOT,0&X1                                         8  1092  V |07 0|0 1        12
 196  1 100  GETCMX BCE   0-0,0&X1,,                                         8  1100  B 000 0|0 ,        12
 197  1 108         SBR   X1                                                  4  1108  H 089              12
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                        FORTRAN COMPILER -- LIST PHASE ONE -- PHASE 25                          PAGE    3

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

198  1 112         B     SCHCOM                                               4  1112  B |92               12
199         *
200         * LIST SYNTAX ERROR
201         *
202  1 116  SYNTAX CS    332                                                  4  1116  / 332              12
203  1 120         CS                                                         1  1120  /                  12
204  1 121         SW    GLOBER                                               4  1121  , 184              12
205  1 125         MN    SEQCOD,237                                           7  1125  D 841 237          13
206  1 132         MN                                                         1  1132  D                  13
207  1 133         MN                                                         1  1133  D                  13
208  1 134         MCW   ERR18                                               4  1134  M S54              13
209  1 138         W                                                          1  1138  2                  13
210  1 139         BCV   *&5                                                 5  1139  B /48 @            13
211  1 144         B     *&3                                                  4  1144  B /50             13
212  1 148         CC    1                                                    2  1148  F 1                14
213  1 150         MCW   SLASH,SEQCOD-3                                      7  1150  M S55 838          14
214  1 157  SX1B   MCW   SEQCOD,0                                            7  1157  M 841 000          14
215  1 164         B     STMBOT                                               4  1164  B |07              14
216         *
217  1 168  DONE   SW    0&X1                                                 4  1168  , 0|0              14
218  1 172         MCW   SX1,X1                                              7  1172  M 844 089          14
219  1 179         BSS   SNAPSH,C                                            5  1179  B 333 C            14
220  1 184         SBR   TPREAD&6,BEGINN                                     7  1184  H 786 845          15
221  1 191         SBR   CLRBOT                                               4  1191  H 833              15
222  1 195         SBR   CLEARL&3,GMWM                                       7  1195  H 710 S65          15
223  1 202         LCA   LISTR2,PHASID                                       7  1202  L S64 110          15
224  1 209         B     LOADNX                                               4  1209  B 700              15
225         *
226         * DATA
227         *
228  1 213  DOT    DCW   @.@                                                  1  1213                     15
229  1 220  STMTS  DCW   @5613LUP@  READ/WRITE (INPUT) (TAPE), PRINT, PUNCH   7  1220                     15
230  1 254  ERR18  DCW   @ERROR 18 - LIST SYNTAX, STATEMENT @                 34  1254                     16
231  1 255  SLASH  DCW   @/@                                                  1  1255                     16
232  1 264  LISTR2 DCW   @LISTR TWO@                                          9  1264                     17
233  1 265  GMWM   DCW   @}@                                                  1  1265           GMARK     17
234                ORG   201                                                        0201
235    203         DSA   LOADDD    LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM      3  0203  838                18
236                EX    BEGINN                                                   B 845              19
237                END                                                            / 000 080
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SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
BEGINN	845	BOTFMT	154	CHKLST	1019	CLEARL	707	CLRBOT	833	DONE	1168	DOT	1213
ERR18	1254	FMTSW	696	GETCMX	1100	GETCOM	1088	GETGM	1068	GLOBER	184	GMWM	1265
IOSTMT	935	LISTR2	1264	LOADDD	838	LOADNX	700	LOOP	888	NEGARY	163	PHASID	110
SCHCOM	1092	SEQCOD	841	SLASH	1255	SNAPSH	333	STMBOT	1007	STMTS	1220	SX1	844
SX1B	1157	SYNTAX	1116	TPREAD	780	TWOWM	978	X1	89	X2	94	X3	99