```
PHASE-34.33.ASC MON JUL 14 23 50 05 2008 1
CLEAR STORAGE 1      ,008015,022026,030037,044,049,053053N000000N00001026                                    1
CLEAR STORAGE 2      L068116,105106,110117B101/I9I#071029C029056B026/B001/0991,001/00111710                   2
BOOTSTRAP            ,008015,022029,036040,047054,061068,072/061039              ,0010011040                 3
                          FORTRAN COMPILER -- ARITH PHASE TWO -- PHASE 34                              PAGE    1
  SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
  101               JOB   FORTRAN COMPILER -- ARITH PHASE TWO -- PHASE 34
  102               CTL   6611
  103         *
  104         * ALL ARITHMETIC AND IF STATEMENTS ARE UNNESTED USING A
  105         * FORCING TABLE TECHNIQUE.  ERROR CHECKING CONTINUES.
  106         *
  107         * ON ENTRY X1 IS THE TOP OF THE TOPMOST NON-ASSIGNMENT NON-IF
  108         * STATEMENT, X2 IS THE TOP OF THE TOPMOST ASSIGNMENT OR IF
  109         * STATEMENT IN HIGH CORE, AND X3 IS ONE BELOW THE BOTTOMMOST
  110         * ASSIGNMENT OR IF STATEMENT IN HIGH CORE.
  111         *
  112         X1     EQU   89                                                      0089
  113         X2     EQU   94                                                      0094
  114         X3     EQU   99                                                      0099
  115         *
  116         * STUFF IN THE RESIDENT AREA
  117         *
  118         PHASID EQU   110  PHASE ID, FOR SNAPSHOT DUMPS                      0110
  119         GLOBER EQU   184  GLOBAL ERROR FLAG -- WM MEANS ERROR               0184
  120         SNAPSH EQU   333  CORE DUMP SNAPSHOT                                0333
  121         LOADNX EQU   700  LOAD NEXT OVERLAY                                 0700
  122         CLEARL EQU   707  CS AT START OF OVERLAY LOADER                     0707
  123         CDOVLY EQU   769  1 IF RUNNING FROM CARDS, N IF FROM TAPE           0769
  124         *
  125               ORG   838                                                           0838
  126         LOADDD EQU   * 1          LOAD ADDRESS                              0838
  127    838  BEGINN BCE   DONE,X2,.                                          8   0838  B N47 094 .          4
  128    846         SW    GM                                                 4   0846  , N73                4
  129    850         MCW   X2,SX2                                             7   0850  M 094 P45            4
  130    857         SBR   X3,2 X3                                            7   0857  H 099 0 2            4
  131    864         SBR   X1,2 X1                                            7   0864  H 089 0 2            4
  132    871         MCW   X1,X2                                              7   0871  M 089 094            5
  133    878  GETOO  MN    X2,CHKX2  GET X2                                   7   0878  D 094 P47            5
  134    885         MN                 UP TO                                 1   0885  D                    5
  135    886         C     CHKX2,K00     X2   X00                            7   0886  C P47 P49            5
  136    893         BE    GOTOO                                              5   0893  B 913 S              5
  137    898         CW    0 X2                                               4   0898    0 0                5
  138    902         SBR   X2,1 X2                                            7   0902  H 094 0 1            5
  139    909         B     GETOO                                              4   0909  B 878                6
  140    913  GOTOO  MN    0 X2                                               4   0913  D 0 0                6
  141    917         SAR   X2P99  X2   X00 - 1                                4   0917  Q P52                6
  142    921         MN    0 X3                                               4   0921  D 0 0                6
  143    925         SAR   X2                                                 4   0925  Q 094                6
  144    929  CLRL   C     X2,X2P99  CLEAR DOWN                               7   0929  C 094 P52            6
  145    936         BE    CLRX        TO TOP                                 5   0936  B 953 S              6
  146    941         CS    0 X2          OF CODE                              4   0941  / 0 0                7
  147    945         SBR   X2              IN LOW                             4   0945  H 094                7
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 SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
 148    949         B     CLRL              CORE   X00                4  0949  B 929               7
 149    953  CLRX   MN    0 X1                                         4  0953  D 0 0               7
 150    957         SAR   X1                                         4  0957  Q 089               7
 151    961  MORE   MCM   0 X3     MOVE CODE                         4  0961  P 0 0               7
 152    965         SAR   SX3 6      DOWN FROM                       4  0965  Q 987               7
 153    969         MCM   0 X3,1 X1    TOP CORE                     7  0969  P 0 0 0 1           8
 154    976         MN                   TO BOTTOM                  1  0976  D                   8
 155    977         SBR   X1                OF BOTTOMMOST           4  0977  H 089               8
 156    981  SX3    SBR   X3,0               ASSIGNMENT              7  0981  H 099 000           8
 157    988         BCE   MORE,0 X1,           OR IF                 8  0988  B 961 0 0           8
 158    996         MN    0 X3                  STATEMENT              4  0996  D 0 0               8
 159  1 000         CW                                               1  1000                      8
 160  1 001         SW    0 X1                                       4  1001  , 0 0               9
 161  1 005         C     X3,SX2                                     7  1005  C 099 P45           9
 162  1 012         BU    MORE                                       5  1012  B 961 /             9
 163  1 017         MN    0 X1                                       4  1017  D 0 0               9
 164  1 021         SAR   X1                                         4  1021  Q 089               9
 165          *
 166          * X1 IS NOW THE TOP OF THE TOPMOST ASSIGNMENT OR IF STATEMENT
 167          * IN LOW CORE AND X3 IS ONE ABOVE THE TOP OF THE TOPMOST
 168          * ASSIGNMENT OR IF STATEMENT IN HIGH CORE.
 169          *
 170  1 025         MN    0 X3                                       4  1025  D 0 0               9
 171  1 029         SBR   IXTOP  INDEX OF STATEMENT IN TOP CORE      4  1029  H P55               9
 172  1 033         BCE   LOOP,0 X3,                                 8  1033  B  60 0 0   GMARK   10
 173  1 041         SBR   X3                                         4  1041  H 099              10
 174  1 045         LCA   GM                                         4  1045  L N73              10
 175  1 049         SBR   IXTOP                                      4  1049  H P55              10
 176  1 053         MCW   X3,SX2                                     7  1053  M 099 P45          10
 177  1 060  LOOP   MCW   IXTOP,IXTSAV                               7  1060  M P55 P58          10
 178  1 067         MCW   0 X1,X3                                    7  1067  M 0 0 099          11
 179  1 074         BWZ   * 5,X3,2  ZONE IN ONES OR                  8  1074  V  86 099 2        11
 180  1 082         B     * 9         THOUSANDS MEANS ADDRESS OF     4  1082  B  94              11
 181  1 086         BWZ   * 8,X3-2,2    SEQUENCE NUMBER IN SYMBOL TABLE 8  1086  V /01 097 2      11
 182  1 094         MCW   0 X3,X3  GET SEQUENCE NUMBER FROM TABLE    7  1094  M 0 0 099          11
 183  1 101         MCW   X3,SEQNO                                   7  1101  M 099 P61          12
 184  1 108         MCW   KB12,W3B                                   7  1108  M Q14 Q28          12
 185  1 115         MCW   KBRACK,40 X1  RIGHT BRACKET                7  1115  M P62 0U0          12
 186  1 122         SBR   LOCBRK 6,40 X1  REMEMBER WHERE WE PUT IT    7  1122  H /85 0U0          12
 187  1 129         B     MOVEUP          MOVE PREFIX UP TO HIGH CORE 4  1129  B S57              12
 188  1 133         BCE   IFSTMT,2 X1,E  IF STATEMENT                8  1133  B S21 0 2 E        13
 189  1 141         C     2 X1,KR         ASSIGNMENT STATEMENT       7  1141  C 0 2 P63          13
 190  1 148         BU    ALMOST          NO, ALMOST DONE            5  1148  B N19 /            13
 191  1 153  READY  MCW   X1,X3                                       7  1153  M 089 099          13
 192  1 160         SBR   LINK 3,0 X1                                7  1160  H M96 0 0          13
 193  1 167         C     0 X3                                       4  1167  C 0 0              13
 194  1 171         SAR   SX3B                                       4  1171  Q P66              14
 195  1 175         B     HUNT                                       4  1175  B S91              14
 196  1 179  LOCBRK BCE   WHEW,0,   RIGHT BRACKET                    8  1179  B T81 000          14
 197          *
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