```
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 -- COMPUTED GOTO PHASE -- PHASE 40                        PAGE    1

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

 101               JOB   FORTRAN COMPILER -- COMPUTED GOTO PHASE -- PHASE 40
 102               CTL   6611
 103         *
 104         * STATEMENTS WITH TWO TO TEN EXITS GENERATE IN-LINE INSTRUCTIONS.
 105         *
 106         X1    EQU   89                                                      0089
 107         X2    EQU   94                                                      0094
 108         X3    EQU   99                                                      0099
 109         *
 110         * STUFF IN THE RESIDENT AREA
 111         *
 112         PHASID EQU  110  PHASE ID, FOR SNAPSHOT DUMPS                      0110
 113         GLOBER EQU  184  GLOBAL ERROR FLAG -- WM MEANS ERROR               0184
 114         SNAPSH EQU  333  CORE DUMP SNAPSHOT                                0333
 115         LOADNX EQU  700  LOAD NEXT OVERLAY                                 0700
 116         CLEARL EQU  707  CS AT START OF OVERLAY LOADER                     0707
 117         CDOVLY EQU  769  1 IF RUNNING FROM CARDS, N IF FROM TAPE           0769
 118         *
 119               ORG   838                                                          0838
 120         LOADDD EQU  *&1          LOAD ADDRESS                              0838
 121    838  BEGINN SW    GM,GM2                                             7  0838  , S95 T09           4
 122    845  LOOP   BW    DONE,0&X1                                          8  0845  V T20 0|0 1         4
 123    853         MCW   0&X1,SEQNO                                         7  0853  M 0|0 T62           4
 124    860         MCW   SEQNO,SEQNO2                                       7  0860  M T62 T12           4
 125    867         MCW   RBRACK,1&X1                                       7  0867  M T63 0|1           4
 126    874         SBR   TSTBRK&6,1&X1                                     7  0874  H |78 0|1           5
 127    881         C     0&X1                                               4  0881  C 0|0               5
 128    885         SAR   X1                                                 4  0885  Q 089               5
 129    889         C     2&X1,KT  COMPUTED GOTO STATEMENT?                  7  0889  C 0|2 T64           5
 130    896         BU    ALMOST   NO                                        5  0896  B T13 /             5
 131    901         S     W2                                                 4  0901  S T66               5
 132    905  COUNT  MN    0&X1                                               4  0905  D 0|0               5
 133    909         MN                                                       1  0909  D                   6
 134    910         MN                                                       1  0910  D                   6
 135    911         SAR   X1                                                 4  0911  Q 089               6
 136    915         A     KP1,W2                                             7  0915  A T67 T66           6
 137    922         C     W2,KP11  ELEVEN WAYS YET?                          7  0922  C T66 T69           6
 138    929         BE    SYNTAX   YES, SYNTAX ERROR                         5  0929  B S23 S             6
 139    934         C     0&X1,KCOMMA                                        7  0934  C 0|0 T70           6
 140    941         BU    COUNT    COUNT BRANCHES                            5  0941  B 905 /             7
 141    946         MN    0&X1                                               4  0946  D 0|0               7
 142    950         SAR   X1                                                 4  0950  Q 089               7
 143    954         B     GETADR                                             4  0954  B /14               7
 144    958         LCA   SEQNO2,0&X3                                       7  0958  L T12 0?0           7
 145    965         LCA   BRANCH&3                                           4  0965  L T59               7
 146    969         LCA                                                      1  0969  L                   7
 147    970         LCA                                                      1  0970  L                   8
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SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD

148    971          SBR   X3                                                   4  0971  H 099               8
149    975          SBR   X1,1&X1                                              7  0975  H 089 0|1           8
150          *
151          * GENERATE BCE INSTRUCTIONS TO TEST SELECTOR
152          *
153    982   GENBCE BW    ENDSTM,4&X1                                          8  0982  V |53 0|4 1         8
154    990          SW    BCE-6                                                4  0990  , T44               8
155    994          MN    W2,BCE                                               7  0994  D T66 T50           8
156  1 001          MCW   W3                                                   4  1001  M T02               8
157  1 005          MCW   6&X1                                                 4  1005  M 0|6               9
158  1 009          SAR   X1                                                   4  1009  Q 089               9
159  1 013          CW    BCE-6                                                4  1013  ) T44               9
160  1 017          MZ    X2ZONE,BCE-5                                         7  1017  Y T71 T45           9
161  1 024          MZ    *-4,BCE-2                                            7  1024  Y |26 T48           9
162  1 031          LCA   BCE,0&X3                                            7  1031  L T50 0?0           9
163  1 038          SBR   X3                                                   4  1038  H 099               9
164  1 042          S     KP1,W2                                               7  1042  S T67 T66          10
165  1 049          B     GENBCE                                               4  1049  B 982              10
166          *
167  1 053   ENDSTM LCA   GM,0&X3                                            7  1053  L S95 0?0          10
168  1 060          SBR   X3                                                   4  1060  H 099              10
169  1 064   BOTTOM C     0&X1  BOTTOM OF LOOP -- GET DOWN TO                  4  1064  C 0|0              10
170  1 068          SAR   X1      BOTTOM OF STATEMENT                          4  1068  Q 089              10
171  1 072   TSTBRK BCE   LOOP,0,]  NOT TOO BIG IF BRACKET NOT CLOBBERED      8  1072  B 845 000 ]        10
172  1 080          CS    332                                                  4  1080  / 332              11
173  1 084          CS                                                         1  1084  /                  11
174  1 085          CC    1                                                    2  1085  F 1                11
175  1 087          MCW   ERROR2,270                                           7  1087  M U07 270          11
176  1 094          W                                                          1  1094  2                  11
177  1 095          CC    1                                                    2  1095  F 1                11
178  1 097          BCE   HALT,CDOVLY,1                                       8  1097  B /10 769 1        11
179  1 105          RWD   1                                                    5  1105  U %U1 R            12
180  1 110   HALT   H     HALT                                                 4  1110  . /10              12
181          *
182          * VERIFY THAT THE FIELD AFTER THE BRANCHES IS AN ADDRESS,
183          * THAT IS, THE DIGIT PART OF ALL THREE CHARACTERS IS IN
184          * THE RANGE 0-9.  MOVE IT TO W3.
185          *
186  1 114   GETADR SBR   GETADX&3                                            4  1114  H S22              12
187  1 118          S     W1                                                   4  1118  S U08              12
188  1 122   GETCH  MN    0&X1,TSTDGT&7                                        7  1122  D 0|0 /55          12
189  1 129          SAR   X1                                                   4  1129  Q 089              12
190  1 133          BCE   OKADR,W1,B  TESTED ALL THREE CHARACTERS?            8  1133  B /81 U08 B        12
191  1 141          A     KP1,W1                                               7  1141  A T67 U08          13
192  1 148   TSTDGT BCE   GETCH,DIGITS,0  NUMERIC PART IS A DIGIT?            8  1148  B /22 U18 0        13
193  1 156          B                                                          1  1156  B                  13
194  1 157          B                                                          1  1157  B                  13
195  1 158          B                                                          1  1158  B                  13
196  1 159          B                                                          1  1159  B                  13
197  1 160          B                                                          1  1160  B                  13
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SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
198  1 161          B                                                  1  1161  B                    14
199  1 162          B                                                  1  1162  B                    14
200  1 163          B                                                  1  1163  B                    14
201  1 164          B                                                  1  1164  B                    14
202  1 165  GETGM    BCE   SYNTAX,0&X1,}                               8  1165  B S23 0|0 } GMARK    14
203  1 173          SBR   X1                                           4  1173  H 089                14
204  1 177          B     GETGM                                        4  1177  B /65                14
205  1 181  OKADR    BM    *&5,2&X1                                   8  1181  V /93 0|2 K          15
206  1 189          B     GETGM                                        4  1189  B /65                15
207  1 193          MZ    KB1,2&X1                                   7  1193  Y U19 0|2            15
208  1 200          MCW   3&X1,W3                                    7  1200  M 0|3 T02            15
209  1 207          C     0&X1,GM                                    7  1207  C 0|0 S95            15
210  1 214          BU    GETGM                                      5  1214  B /65 /              15
211  1 219  GETADX  B     0                                          4  1219  B 000                16
212          *
213  1 223  SYNTAX  BWZ   *&5,SEQNO,2                                8  1223  V S35 T62 2          16
214  1 231          B     *&9                                        4  1231  B S43                16
215  1 235          BWZ   *&15,SEQNO-2,2                             8  1235  V S57 T60 2          16
216  1 243          MCW   SEQNO,X2                                   7  1243  M T62 094            16
217  1 250          MCW   0&X2,SEQNO                                 7  1250  M 0!0 T62            16
218  1 257          CS    332                                        4  1257  / 332                17
219  1 261          CS                                               1  1261  /                    17
220  1 262          SW    GLOBER                                     4  1262  , 184                17
221  1 266          MN    SEQNO,247                                  7  1266  D T62 247            17
222  1 273          MN                                               1  1273  D                    17
223  1 274          MN                                               1  1274  D                    17
224  1 275          MCW   ERR34                                     4  1275  M U63                17
225  1 279          W                                                1  1279  2                    18
226  1 280          BCV   *&5                                       5  1280  B S89 @              18
227  1 285          B     *&3                                        4  1285  B S91                18
228  1 289          CC    1                                          2  1289  F 1                  18
229  1 291          B     BOTTOM                                     4  1291  B |64                18
230          *
231  1 295  GM      DC    @}@                                        1  1295                GMARK   18
232  1 299          DCW   @T840@                                     4  1299                        18
233  1 302  W3      DCW   #3                                         3  1302                        18
234  1 305          DCW   #3                                         3  1305                        19
235  1 308          DCW   #3                                         3  1308                        19
236  1 309  GM2     DC    @}@                                        1  1309                GMARK   19
237  1 312  SEQNO2  DC    #3                                         3  1312                        19
238          *
239  1 313  ALMOST  SBR   X1,5&X1                                    7  1313  H 089 0|5            19
240  1 320  DONE    BSS   SNAPSH,C                                   5  1320  B 333 C              19
241  1 325          SBR   CLEARL&3,GMWM                              7  1325  H 710 U69            19
242  1 332          LCA   GOMSK,PHASID                               7  1332  L U68 110            19
243  1 339          B     LOADNX                                     4  1339  B 700                20
244          *
245  1 350  BCE     DCW   @BXXXXXXA@  BCE  XXX,XXX,A                 8  1350                       20
246  1 351          NOP   1001                                       4  1351  N |01                20
247  1 355          H                                                1  1355  .                    20
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SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD

248  1 356  BRANCH B     15992&X3                                          4  1356  B IIB               20
249  1 362  SEQNO  DCW   #3                                               3  1362                      20
250  1 363  RBRACK DCW   @]@                                             1  1363                      20
251  1 364  KT     DCW   @T@  COMPUTED GOTO STATEMENT CODE                1  1364                      21
252  1 366  W2     DCW   #2                                              2  1366                      21
253  1 367  KP1    DCW   &1                                              1  1367                      21
254  1 369  KP11   DCW   &11                                             2  1369                      21
255  1 370  KCOMMA DCW   @,@                                             1  1370                      21
256  1 371  X2ZONE DCW   @K@                                             1  1371                      21
257  1 407  ERROR2 DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@          36  1407                      22
258  1 408  W1     DCW   #1                                              1  1408                      22
259  1 418  DIGITS DCW   @0123456789@                                   10  1418                      23
260  1 419  KB1    DCW   #1                                              1  1419                      23
261  1 463  ERR34  DCW   @ERROR 34 - COMPUTED GO TO SYNTAX, STATEMENT @  44  1463                      25
262  1 468  GOMSK  DCW   @GOMSK@                                          5  1468                      25
263  1 469  GMWM   DCW   @}@                                              1  1469              GMARK   25
264            ORG   201                                                        0201
265    203     DSA   LOADDD    LOAD ADDRESS FOR CARD-TO-TAPE PROGRAM      3  0203  838                 26
266            EX    BEGINN                                                   B 838                     27
267            END                                                            / 000 080
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ALMOST	1313	BCE	1350	BEGINN	838	BOTTOM	1064	BRANCH	1356	CDOVLY	769	CLEARL	707
COUNT	905	DIGITS	1418	DONE	1320	ENDSTM	1053	ERR34	1463	ERROR2	1407	GENBCE	982
GETADR	1114	GETADX	1219	GETCH	1122	GETGM	1165	GLOBER	184	GM	1295	GM2	1309
GMWM	1469	GOMSK	1468	HALT	1110	KB1	1419	KCOMMA	1370	KP1	1367	KP11	1369
KT	1364	LOADDD	838	LOADNX	700	LOOP	845	OKADR	1181	PHASID	110	RBRACK	1363
SEQNO	1362	SEQNO2	1312	SNAPSH	333	SYNTAX	1223	TSTBRK	1072	TSTDGT	1148	W1	1408
W2	1366	W3	1302	X1	89	X2	94	X2ZONE	1371	X3	99		