```
SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

101               JOB   FORTRAN COMPILER -- DO PHASE -- PHASE 46
102               CTL   6611
103         *
104         * STRINGS OF UNCONDITIONAL BRANCH INSTRUCTIONS AND PARAMETERS
105         * ARE GENERATED IN-LINE.  AN UNCONDITIONAL BRANCH IS GENERATED
106         * TO FOLLOW THE LAST STATEMENT WITHIN THE RANGE OF THE DO
107         *
108         X1      EQU   89                                                      0089
109         X2      EQU   94                                                      0094
110         X3      EQU   99                                                      0099
111         *
112         * STUFF IN THE RESIDENT AREA
113         *
114         NEGAR2  EQU   142  LOOKS LIKE NEGARY -- SEE PHASE 20                 0142
115         DOCNT   EQU   151  COUNT OF DO STATEMENTS                             0151
116         GLOBER  EQU   184  GLOBAL ERROR FLAG -- WM MEANS ERROR                0184
117         *
118               EXT00   SNAPSH, LOADNX, CDOVLY                                          MACRO
119         SNAPSH  EQU   333                                                     0333      GEN
120         PHASLD  EQU   381                                                     0381      GEN
121         SNAPEX  EQU   564                                                     0564      GEN
122         LOADNX  EQU   700   CARD OVERLAY UNLESS NOP                          0700      GEN
123         CDOVLY  EQU   700   1 IF LOADING FROM CARDS, N IF FROM TAPE          0700      GEN
124         TPREAD  EQU   704   LOAD OVERLAY FROM TAPE                           0704      GEN
125         TPERR   EQU   728                                                     0728      GEN
126         *
127         TABEL   EQU   2499  IN RESORT THREE PHASE 3 ???                      2499
128         *
129               EXT03   START, TOP OF PHASE 3                                           MACRO
130         BEGIN3  EQU   838                                                     0838      GEN
131         TOP3    EQU   2600                                                    2600      GEN
132         *
133         PHAS46  LDPH  DOMSK,LOADAD,BEGN46,,,46                                        MACRO
            * PHAZ   LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]          GEN
            *        XFR  PHASZ     PROHIBITED IN A MACRO                             GEN
            *                                                                         GEN
            * LOAD A BLOCK                                                           GEN
            *                                                                       GEN
134         )6J003  EQU   110  PHASE ID                                           0110      GEN
135         )6K003  EQU   700  LOAD NEXT PHASE                                    0700      GEN
136         )6L003  EQU   704  TAPE READ INSTRUCTION                              0704      GEN
137         )6M003  EQU   728  TAPE ERROR HANDLER                                 0728      GEN
            *                                                                       GEN
138               ORG   201                                                             0201
139         PHAS46  EQU   *&1                                                     0201      GEN
140               LCA   )9J003,)6J003                                         7   0201  L 248 110   GEN      1   248     110
141               BCE   )6K003,)6K003,1      Q: LOADING FROM CARDS?           8   0208  B 700 700 1 GEN      1   700     700
142               BCE   )6K003,)6L003&4,0    Q: LOADING FROM AUTOCODER TAPE?  8   0216  B 700 708 0 GEN      1   700     708
143               RTW   1,LOADAD             READ THE BLOCK                   8   0224  L %U1 838 R GEN      1   %U1     838
144               BER   )6M003               Q: TAPE ERROR?                   5   0232  B 728 L     GEN      1   728
```

```
SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

145             CS    BEGN46,)9R003       ENTER THE BLOCK                    7  0237  / 838 252   GEN      2   838     252
146         )9J003 DCW  @DOMSK@          PHASE ID                           5  0248              GEN      2
147             DC    #1                                                     1  0249              GEN      2
148             DC    @46@          PHASE NUMBER                           2  0251              GEN      2
149         )9R003 DCW  @}@                                                  1  0252              GEN      2
150             XFR   PHAS46                                                        B 201               3   201
151         *
152         * DO PHASE ALGORITHM
153         *
154         *                    OUTER
155         *
156         *                  NO   SAME  DIFF
157         *          I       B XT  B XT  B XT
158         *          N
159         *          N   GM  T BK  T IN  T BK
160         *          E   EZ  B BK  B IN  B BK
161         *          R   HD  - BK  - IN  - BK
162         *
163             ORG   BEGIN3                                                      0838
164         LOADAD EQU  *&1          LOAD ADDRESS                          0838
165    838  BEGN46 SW    GM,GM3                                             7  0838  , V77 W05           4  1577    1605
166    845         SW    GM4,GM2                                            7  0845  , W10 W01           4  1610    1601
167    852         MCW   X3,SX3                                             7  0852  M 099 W16           4   099    1616
168    859  LOOP   BW    DONE,0&X1                                          8  0859  V V33 0|0 1         4  1533     000+1
169    867         MCW   KLESS,2&X1  MARK TOP OF CODE -- BOTTOM OF FREE     7  0867  M W17 0|2           4  1617     002+1
170    874         SBR   TSTLES&6,2&X1                                      7  0874  H S65 0|2           5  1265     002+1
171    881         C     0&X1                                               4  0881  C 0|0               5   000+1
172    885         SAR   X1                                                 4  0885  Q 089               5   089
173    889         C     2&X1,KD  DO STATEMENT?                             7  0889  C 0|2 W18           5   002+1  1618
174    896         BU    ALMOST   NO                                        5  0896  B V26 /             5  1526
175    901         CW    111,112                                            7  0901  ) 111 112           5   111     112
176    908         CW    113,114                                            7  0908  ) 113 114           6   113     114
177    915         MCW   5&X1,X2  ADDRESS OF SEQUENCE NUMBER                7  0915  M 0|5 094           6   005+1   094
178    922         MCW   0&X2,SEQNO                                         7  0922  M 0!0 W21           6   000+2  1621
179    929         MCW   0&X1,X2                                            7  0929  M 0|0 094           6   000+1   094
180    936         SAR   X1                                                 4  0936  Q 089               6   089
181    940         MCW   0&X2,SEQEND                                       7  0940  M 0!0 W24           6   000+2  1624
182    947         ZA    SEQNO,SEQDIF                                       7  0947  ? W21 W27           7  1621    1627
183    954         S     SEQEND,SEQDIF                                      7  0954  S W24 W27           7  1624    1627
184    961         MCW   NOP,SWICH1                                         7  0961  M W28 S12           7  1628    1212
185    968         BWZ   MSG38,SEQDIF,B  ILLEGAL RANGE IF POSITIVE          8  0968  V T97 W27 B         7  1397    1627
186    976         MCW   X1,X2                                             7  0976  M 089 094           7   089     094
187    983         MCW   KB3,F5                                            7  0983  M W31 W00           8  1631    1600
188    990         MCW   KT,LONGOP                                         7  0990  M W32 W06           8  1632    1606
189    997         MCW   BRANCH,SWICH2                                     7  0997  M W33 S16           8  1633    1216
190  1 004  NESTED C     0&X2  DOWN TO BODY OF STMT BELOW DO                4  1004  C 0!0               8   000+2
191  1 008         C                                                        1  1008  C                   8
192  1 009         SAR   X2                                                 4  1009  Q 094               8   094
193  1 013         C     2&X2,KD  IS IT A DO STATEMENT?                     7  1013  C 0!2 W18           8   002+2  1618
194  1 020         BU    NOTDO                                              5  1020  B |90 /             9  1090
```

```
SEQ PG LIN  LABEL   OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR
195  1 025          MCW   0&X2,X3                                   7  1025  M 0!0 099            9   000+2   099
196  1 032          C     0&X3,SEQNO  PROPERLY NESTED?              7  1032  C 0?0 W21            9   000+3  1621
197  1 039          BH    NESTED      YES                           5  1039  B |04 U              9  1004
198  1 044          C     0&X3,SEQEND                               7  1044  C 0?0 W24            9   000+3  1624
199  1 051          BH    MSG39  ILLEGAL DO NESTING                 5  1051  B U42 U              9  1442
200  1 056          BCE   *&8,1&X2,H  CO-ENDING?                   8  1056  B |71 0!1 H         10  1071     001+2
201  1 064          MCW   KE,1&X2  NOT CO-ENDING                   7  1064  M W34 0!1           10  1634     001+2
202  1 071          BL    NOTDO                                     5  1071  B |90 T             10  1090
203  1 076          MCW   KH,1&X2  CO-ENDING AFTER ALL             7  1076  M W35 0!1           10  1635     001+2
204  1 083          MCW   5&X2,F5                                   7  1083  M 0!5 W00           10   005+2  1600
205  1 090  NOTDO   BCE   COEND,4&X1,H                             8  1090  B /20 0|4 H         11  1120     004+1
206  1 098          MCW   NOP,SWICH2                               7  1098  M W28 S16           11  1628    1216
207  1 105          BCE   *&8,4&X1,}                                8  1105  B /20 0|4 } GMARK   11  1120     004+1
208  1 113          MCW   BRANCH,LONGOP                            7  1113  M W33 W06           11  1633    1606
209  1 120  COEND   MCW   SEQEND,LONG                             7  1120  M W24 W13           11  1624    1613
210  1 127          SW    6&X1                                      4  1127  , 0|6               12   006+1
211  1 131          MCW   8&X1,SHORT                               7  1131  M 0|8 W04           12   008+1  1604
212  1 138          MCW   8&X1,F6                                  7  1138  M 0|8 W09           12   008+1  1609
213          *
214          * TEST SYNTAX AND GENERATE CODE
215          *
216  1 145  GEN     B     SUB                                       4  1145  B T01               12  1301
217  1 149          DCW   @,@                                       1  1149                      12
218  1 152          DSA   F4                                        3  1152  V97                 12  1597
219  1 153          B     SUB                                       4  1153  B T01               12  1301
220  1 157          DCW   @#@                                       1  1157                      13
221  1 160          DSA   F1                                        3  1160  V88                 13  1588
222  1 161          B     SUB                                       4  1161  B T01               13  1301
223  1 165          DCW   @,@                                       1  1165                      13
224  1 168          DSA   F2                                        3  1168  V91                 13  1591
225  1 169          BW    NRBOT,0&X1                                8  1169  V T86 0|0 1         13  1386     000+1
226  1 177          B     SUB                                       4  1177  B T01               13  1301
227  1 181          DCW   @,@                                       1  1181                      14
228  1 184          DSA   F3                                        3  1184  V94                 14  1594
229  1 185          BW    BOTTOM,0&X1                               8  1185  V /97 0|0 1         14  1197     000+1
230  1 193          B     MSG40  SYNTAX ERROR                       4  1193  B U80               14  1480
231          *
232  1 197  BOTTOM  MCW   SX3,X3                                   7  1197  M W16 099           14  1616     099
233  1 204          MN    0&X1                                      4  1204  D 0|0               14   000+1
234  1 208          SAR   X1                                        4  1208  Q 089               14   089
235  1 212  SWICH1  NOP   TSTLES                                   4  1212  N S59               15  1259
236  1 216  SWICH2  NOP   SKIP                                     4  1216  N S40               15  1240
237  1 220          A     KP1,DOCNT                                 7  1220  A W36 151           15  1636     151
238  1 227          LCA   LONG,0&X3                                 7  1227  L W13 0?0           15  1613     000+3
239  1 234          LCA                                             1  1234  L                   15
240  1 235          LCA                                             1  1235  L                   15
241  1 236          SBR   X3                                        4  1236  H 099               15   099
242  1 240  SKIP    LCA   SHORT,0&X3                                7  1240  L W04 0?0           16  1604     000+3
243  1 247          CHAIN 8                                                                 MACRO
244                 LCA                                             1  1247  L             GEN   16
```

```
SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

245                 LCA                                                       1  1248  L           GEN     16
246                 LCA                                                       1  1249  L           GEN     16
247                 LCA                                                       1  1250  L           GEN     16
248                 LCA                                                       1  1251  L           GEN     16
249                 LCA                                                       1  1252  L           GEN     16
250                 LCA                                                       1  1253  L           GEN     17
251                 LCA                                                       1  1254  L           GEN     17
252  1 255          SBR   SX3                                                 4  1255  H W16               17  1616
253  1 259  TSTLES  BCE   LOOP,0,<                                           8  1259  B 859 000 <         17   859     000
254  1 267          CS    332                                                 4  1267  / 332               17   332
255  1 271          CS                                                        1  1271  /                   17
256  1 272          CC    1                                                   2  1272  F 1                 17
257  1 274          MCW   ERROR2,270                                          7  1274  M W72 270           18  1672     270
258  1 281          W                                                         1  1281  2                   18
259  1 282          CC    1                                                   2  1282  F 1                 18
260  1 284          BCE   HALT,CDOVLY,1                                      8  1284  B S97 700 1         18  1297     700
261  1 292          RWD   1                                                   5  1292  U %U1 R             18   %U1
262  1 297  HALT    H     HALT                                                4  1297  . S97               18  1297
263                 *
264                 * CHECK THE NEXT CHARACTER AGAINST THE ONE AT 0&X1, THEN
265                 * CHECK THAT THE NEXT THREE HAVE NUMERIC PARTS IN 0..9,
266                 * THAT IS, THEY CONSTITUTE AN ADDRESS.
267                 *
268  1 301  SUB     SBR   X2                                                  4  1301  H 094               18   094
269  1 305          C     0&X1,0&X2                                           7  1305  C 0|0 0!0           19   000+1   000+2
270  1 312          SAR   X1                                                  4  1312  Q 089               19   089
271  1 316          BU    MSG40  SYNTAX ERROR IF NOT THE EXPECTED CHAR         5  1316  B U80 /             19  1480
272  1 321          MCW   3&X2,*&7                                            7  1321  M 0!3 T34           19   003+2  1334
273  1 328          MCW   0&X1,0                                             7  1328  M 0|0 000           19   000+1   000
274  1 335          S     W1                                                  4  1335  S W73               19  1673
275  1 339  GOTDIG  A     KP1,W1                                              7  1339  A W36 W73           20  1636    1673
276  1 346          BCE   4&X2,W1,D  EXIT IF THREE TIMES THROUGH LOOP         8  1346  B 0!4 W73 D         20   004+2  1673
277  1 354          MN    0&X1,*&12                                           7  1354  D 0|0 T72           20   000+1  1372
278  1 361          SAR   X1                                                  4  1361  Q 089               20   089
279  1 365          BCE   GOTDIG,DIGITS,0                                    8  1365  B T39 W83 0         20  1339    1683
280  1 373          CHAIN 9                                                                 MACRO
281                 BCE                                                       1  1373  B           GEN     20
282                 BCE                                                       1  1374  B           GEN     20
283                 BCE                                                       1  1375  B           GEN     21
284                 BCE                                                       1  1376  B           GEN     21
285                 BCE                                                       1  1377  B           GEN     21
286                 BCE                                                       1  1378  B           GEN     21
287                 BCE                                                       1  1379  B           GEN     21
288                 BCE                                                       1  1380  B           GEN     21
289                 BCE                                                       1  1381  B           GEN     21
290  1 382          B     MSG40  SPECIAL CHARACTER MEANS SYNTAX ERROR          4  1382  B U80               22  1480
291                 *
292  1 386  NRBOT   MCW   NEGAR2,F3                                           7  1386  M 142 V94           22   142    1594
293  1 393          B     BOTTOM                                              4  1393  B /97               22  1197
294                 *
```

```
SEQ PG LIN  LABEL   OP    OPERANDS                SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

295         * ILLEGAL RANGE OF DO
296         *
297  1 397  MSG38   CS    332                       4  1397  / 332               22   332
298  1 401         CS                              1  1401  /                   22
299  1 402         SW    GLOBER                    4  1402  , 184               22   184
300  1 406         MN    SEQNO,245                 7  1406  D W21 245           22  1621     245
301  1 413         MN                              1  1413  D                   23
302  1 414         MN                              1  1414  D                   23
303  1 415         MCW   ERR38                     4  1415  M X25               23  1725
304  1 419         W                               1  1419  2                   23
305  1 420         BCV   *&5                       5  1420  B U29 @             23  1429
306  1 425         B     *&3                       4  1425  B U31               23  1431
307  1 429         CC    1                         2  1429  F 1                 23
308  1 431  SET1   MCW   BRANCH,SWICH1            7  1431  M W33 S12           24  1633    1212
309  1 438         B     GEN                       4  1438  B /45               24  1145
310         *
311         * ILLEGAL NESTING
312         *
313  1 442  MSG39   CS    332                       4  1442  / 332               24   332
314  1 446         CS                              1  1446  /                   24
315  1 447         SW    GLOBER                    4  1447  , 184               24   184
316  1 451         MN    SEQNO,241                 7  1451  D W21 241           24  1621     241
317  1 458         MN                              1  1458  D                   24
318  1 459         MN                              1  1459  D                   25
319  1 460         MCW   ERR39                     4  1460  M X63               25  1763
320  1 464         W                               1  1464  2                   25
321  1 465         BCV   *&5                       5  1465  B U74 @             25  1474
322  1 470         B     *&3                       4  1470  B U76               25  1476
323  1 474         CC    1                         2  1474  F 1                 25
324  1 476         B     SET1                      4  1476  B U31               25  1431
325         *
326         * SYNTAX ERROR
327         *
328  1 480  MSG40   CS    332                       4  1480  / 332               26   332
329  1 484         CS                              1  1484  /                   26
330  1 485         SW    GLOBER                    4  1485  , 184               26   184
331  1 489         MN    SEQNO,235                 7  1489  D W21 235           26  1621     235
332  1 496         MN                              1  1496  D                   26
333  1 497         MN                              1  1497  D                   26
334  1 498         MCW   ERR40                     4  1498  M X95               26  1795
335  1 502         W                               1  1502  2                   27
336  1 503         BCV   *&5                       5  1503  B V12 @             27  1512
337  1 508         B     *&3                       4  1508  B V14               27  1514
338  1 512         CC    1                         2  1512  F 1                 27
339  1 514         C     1&X1                      4  1514  C 0|1               27   001+1
340  1 518         SAR   X1                        4  1518  Q 089               27   089
341  1 522         B     TSTLES                    4  1522  B S59               27  1259
342         *
343  1 526  ALMOST SBR   X1,5&X1                   7  1526  H 089 0|5           28   089     005+1
344  1 533  DONE    MCW   SX3,X3                   7  1533  M W16 099           28  1616     099
```

```
SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR
345  1 540          MN    0&X3                                              4  1540  D 0?0               28   000+3
346  1 544          SAR   X2                                                4  1544  Q 094               28   094
347  1 548  CSLOOP  CS    0&X2                                              4  1548  / 0!0               28   000+2
348  1 552          SBR   X2                                                4  1552  H 094               28   094
349  1 556          C     0&X2,DOEND                                        7  1556  C 0!0 X99           28   000+2  1799
350  1 563          BU    CSLOOP                                            5  1563  B V48 /             29  1548
351  1 568          BSS   SNAPSH,E                                         5  1568  B 333 E             29   333
352  1 594          B     LOADNX                                            4  1573  B 700               29   700
353  1 598  GM      DC    @}@                                               1  1577              GMARK  29
354          *
355          * GENERATED CODE TEMPLATE
356          *
357  1 602          DCW   @T924@                                            4  1581                     29
358  1 606          DCW   @T921@                                            4  1585                     29
359  1 609  F1      DCW   #3                                                3  1588                     29
360  1 612  F2      DCW   #3                                                3  1591                     29
361  1 615  F3      DCW   #3                                                3  1594                     30
362  1 618  F4      DCW   #3                                                3  1597                     30
363  1 621  F5      DCW   #3                                                3  1600                     30
364  1 622  GM2     DC    @}@                                               1  1601              GMARK  30
365  1 625  SHORT   DC    #3                                                3  1604                     30
366  1 626  GM3     DC    @}@                                               1  1605              GMARK  30
367  1 627  LONGOP  DCW   @T@                                               1  1606                     30
368  1 630  F6      DC    #3                                                3  1609                     30
369  1 631  GM4     DC    @}@                                               1  1610              GMARK  30
370  1 634  LONG    DC    #3                                                3  1613                     30
371          *
372          * DATA
373          *
374  1 637  SX3     DCW   #3                                                3  1616                     30
375  1 638  KLESS   DCW   @<@                                               1  1617                     30
376  1 639  KD      DCW   @D@                                               1  1618                     30
377  1 642  SEQNO   DCW   #3  SEQUENCE NUMBER OF DO                         3  1621                     31
378  1 645  SEQEND  DCW   #3  SEQUENCE NUMBER OF FINAL STATEMENT OF DO      3  1624                     31
379  1 648  SEQDIF  DCW   #3  SEQNO - SEQEND -- BETTER BE NEGATIVE          3  1627                     31
380  1 649  NOP     NOP                                                     1  1628  N                  31
381  1 652  KB3     DCW   #3                                                3  1631                     31
382  1 653  KT      DCW   @T@                                               1  1632                     31
383  1 654  BRANCH  B                                                       1  1633  B                  31
384  1 655  KE      DCW   @E@                                               1  1634                     32
385  1 656  KH      DCW   @H@                                               1  1635                     32
386  1 657  KP1     DCW   &1                                                1  1636                     32
387  1 693  ERROR2  DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@           36  1672                     32
388  1 694  W1      DCW   #1                                                1  1673                     33
389  1 704  DIGITS  DCW   @0123456789@                                     10  1683                     33
390  1 746  ERR38   DCW   @ERROR 38 - ILLEGAL RANGE OF DO, STATEMENT @     42  1725                     35
391  1 784  ERR39   DCW   @ERROR 39 - ILLEGAL NESTING, STATEMENT @         38  1763                     36
392  1 816  ERR40   DCW   @ERROR 40 - DO SYNTAX, STATEMENT @               32  1795                     37
393                 ORG   *&X00                                                    1800
394          DOEND   EQU   *                                                     1799
```

```
SEQ PG LIN  LABEL   OP    OPERANDS                                   SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR
395  1 825          DCW   @}@                                          1  1800              GMARK   38
396                 XFR   BEGN46                                             B 838               39   838
397          CLRME  CLRA  LOADAD,TABEL                                                      MACRO
             *      CLRA  CLRBOT,CLRTOP[,ORG,GMWMAD]                                        GEN
             *                                                                             GEN
             * CLEAR CORE AFTER A PHASE USING THE CLRTOP ADDRESS                           GEN
             *                                                                             GEN
398                 ORG   201                                                    0201
             *                                                                             GEN
             * CLEAR DOWN TO CLRBOT & X00 THE EASY WAY                                     GEN
             *                                                                             GEN
399          CLRME  EQU   *&1                                                  0201        GEN
400          )0J004 CS    TABEL         CLEAR FROM CLRTOP                 4  0201  / M99       GEN     40  2499
401                 SBR   )0J004&3                                         4  0205  H 204       GEN     40   204
402                 SBR   )0L004&6                                         4  0209  H 250       GEN     40   250
403                 C     )0J004&3,)0M004   DOWN TO CLRBOT & X00?         7  0213  C 204 261   GEN     40   204     261
404                 BU    )0J004                                           5  0220  B 201 /     GEN     40   201
             *                                                                             GEN
             * NOW CLEAR DOWN TO CLRBOT THE HARD WAY                                       GEN
             *                                                                             GEN
405          )0K004 C     )0L004&6,)0N004                                  7  0225  C 250 264   GEN     40   250     264
406                 BU    )0L004                                           5  0232  B 244 /     GEN     40   244
407                 CS    LOADNX,)0Q004  LOAD THE NEXT BLOCK AT 1          7  0237  / 700 271   GEN     41   700     271
408          )0L004 LCA   )0P004,0-0     CLEAR WITH BLANK AND WORD MARK   7  0244  L 265 000   GEN     41   265     000
409                 SBR   )0L004&6                                         4  0251  H 250       GEN     41   250
410                 B     )0K004                                           4  0255  B 225       GEN     41   225
411          )0M004 DSA   )0R004         CLRBOT & X00 - 1                 3  0261  899         GEN     41   899
412          )0N004 DSA   LOADAD         CLRBOT                           3  0264  838         GEN     41   838
413          )0P004 DCW   #1                                              1  0265              GEN     41
414                 DC    @CLRA @     IDENTIFY IN A DECK, TAPE, OR DUMP   5  0270              GEN     41
415          )0Q004 DCW   @}@                                             1  0271              GEN     42
416                 ORG   LOADAD&X00                                                 0900
417          )0R004 EQU   *           CLRBOT & X00 - 1                        0899              GEN
418                 XFR   CLRME                                                    B 201               43   201
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J004	0201: 0	)0K004	0225: 0	)0L004	0244: 0	)0M004	0261: 0	)0N004	0264: 0	)0P004	0265: 0
)0Q004	0271: 0	)0R004	0899: 0	)6J003	0110: 0	)6K003	0700: 0	)6L003	0704: 0	)6M003	0728: 0
)9J003	0248: 0	)9R003	0252: 0	ALMOST	1526: 0	BEGIN3	0838: 0	BEGN46	0838: 0	BOTTOM	1197: 0
BRANCH	1633: 0	CDOVLY	0700: 0	CLRME	0201: 0	COEND	1120: 0	CSLOOP	1548: 0	DIGITS	1683: 0
DOCNT	0151: 0	DOEND	1799: 0	DONE	1533: 0	ERR38	1725: 0	ERR39	1763: 0	ERR40	1795: 0
ERROR2	1672: 0	F1	1588: 0	F2	1591: 0	F3	1594: 0	F4	1597: 0	F5	1600: 0
F6	1609: 0	GEN	1145: 0	GLOBER	0184: 0	GM	1577: 0	GM2	1601: 0	GM3	1605: 0
GM4	1610: 0	GOTDIG	1339: 0	HALT	1297: 0	KB3	1631: 0	KD	1618: 0	KE	1634: 0
KH	1635: 0	KLESS	1617: 0	KP1	1636: 0	KT	1632: 0	LOADAD	0838: 0	LOADNX	0700: 0
LONG	1613: 0	LONGOP	1606: 0	LOOP	0859: 0	MSG38	1397: 0	MSG39	1442: 0	MSG40	1480: 0
NEGAR2	0142: 0	NESTED	1004: 0	NOP	1628: 0	NOTDO	1090: 0	NRBOT	1386: 0	PHAS46	0201: 0
PHASLD	0381: 0	SEQDIF	1627: 0	SEQEND	1624: 0	SEQNO	1621: 0	SET1	1431: 0	SHORT	1604: 0
SKIP	1240: 0	SNAPEX	0564: 0	SNAPSH	0333: 0	SUB	1301: 0	SWICH1	1212: 0	SWICH2	1216: 0
SX3	1616: 0	TABEL	2499: 0	TOP3	2600: 0	TPERR	0728: 0	TPREAD	0704: 0	TSTLES	1259: 0
W1	1673: 0	X1	0089: 0	X2	0094: 0	X3	0099: 0				

UNREFERENCED SYMBOLS

PHASLD SNAPEX TOP3 TPERR TPREAD