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

101               JOB   FORTRAN COMPILER -- DIMENSION PHASE ONE -- 09
102               CTL   6611
103         *
104         * EXTERNALLY REFERENCED SYMBOLS ARE MARKED WITH ASTERISK IN COLUMN 1.
105         *
106         * A TABLE OF ARRAYS IS GENERATED AT THE END OF STORAGE.
107         * EACH TABLE ELEMENT CONSISTS OF THE ARRAY NAME, ITS
108         * DIMENSIONS AND SUFFICIENT SPACE FOR CONTROL STATEMENTS
109         * AND DATA GENERATED BY THE EQUIVALENCE PHASES AND BY
110         * DIMENSION PHASE TWO.
111         *
112         * DIMENSION TABLE ELEMENTS ARE SEPARATED BY GROUP MARK WORD MARK.
113         * AT THE TOP OF EACH ELEMENT IS THE ARRAY NAME, SPELT BACKWARD.
114         * BELOW THAT ARE TWO CELLS USED TO DOUBLE LINK THE ELEMENTS.
115         * THE UPPER ONE POINTS TO THE NEXT ONE HIGHER IN CORE (UNLESS
116         * IT'S BLANK); THE LOWER ONE POINTS TO THE NEXT ONE LOWER IN
117         * CORE (UNLESS IT'S BLANK).  BELOW THAT ARE EMPTY THREE CHARACTER
118         * AND FIVE CHARACTER FIELDS.  BELOW THAT ARE THE DIMENSIONS, WITH
119         * THE FIRST DIMENSION AT THE HIGHER ADDRESS.  THE DIGITS OF THE
120         * DIMENSIONS ARE NOT REVERSED.
121         *
122         * 81-83 = START (TOP ADDRESS) OF FIRST (TOP IN MEMORY)
123         * STATEMENT.  REMEMBER, STATEMENTS ARE SORTED BY TYPE NOW,
124         * AND PUSHED TO THE BOTTOM OF AVAILABLE CORE.
125         *
126         * ON EXIT, 84-86 IS THE ADDRESS OF THE TOPMOST (FIRST)
127         * DIMENSION TABLE.
128         *
129         X1     EQU   89                                                0089
130         X2     EQU   94                                                0094
131         X3     EQU   99                                                0099
132         *
133         * STUFF IN THE RESIDENT AREA
134         *
135         GLOBER EQU   184  GLOBAL ERROR FLAG -- WM MEANS ERROR          0184
136         TOPCOR EQU   688  TOP CORE ADDRESS FROM PARAM CARD             0688
137         IMOD   EQU   690  INTEGER MODULUS -- NUMBER OF DIGITS          0690
138         MANTIS EQU   692  FLOATING POINT MANTISSA DIGITS               0692
139         *
140               EXT00   SNAPSH, LOADNX, CDOVLY                                          MACRO
141         SNAPSH EQU   333                                               0333           GEN
142         PHASLD EQU   381                                               0381           GEN
143         SNAPEX EQU   564                                               0564           GEN
144         LOADNX EQU   700   CARD OVERLAY UNLESS NOP                    0700           GEN
145         CDOVLY EQU   700   1 IF LOADING FROM CARDS, N IF FROM TAPE     0700           GEN
146         TPREAD EQU   704   LOAD OVERLAY FROM TAPE                      0704           GEN
147         TPERR  EQU   728                                               0728           GEN
148         *
149               EXT03   START, TOP OF PHASE 3                                           MACRO
150         BEGIN3 EQU   838                                               0838           GEN
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SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

151         TOP3    EQU   2600                                                    2600        GEN
152         *
153         110     DCW   @DIMEN ONE@                                        9  0110                  1
154         094     DCW   000                                                 3  0094                  2
155         096     DC    00                                                  2  0096                  2
156         099     DCW   000                                                 3  0099                  2
157         100     DC    0                                                   1  0100                  2
158         *
159         PHAS9   LDPH  DIMEN ONE,DIFF,BEGIN9,,,9                                  MACRO
            * PHAZ   LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]         GEN
            *       XFR  PHASZ     PROHIBITED IN A MACRO                             GEN
            *                                                                        GEN
            * LOAD A BLOCK                                                          GEN
            *                                                                       GEN
160         )6J003  EQU   110  PHASE ID                                           0110        GEN
161         )6K003  EQU   700  LOAD NEXT PHASE                                    0700        GEN
162         )6L003  EQU   704  TAPE READ INSTRUCTION                              0704        GEN
163         )6M003  EQU   728  TAPE ERROR HANDLER                                 0728        GEN
            *                                                                       GEN
164                 ORG   201                                                          0201
165         PHAS9   EQU   *&1                                                     0201        GEN
166                 LCA   )9J003,)6J003                                         7  0201  L 252 110   GEN      3   252     110
167                 BCE   )6K003,)6K003,1      Q: LOADING FROM CARDS?           8  0208  B 700 700 1 GEN      3   700     700
168                 BCE   )6K003,)6L003&4,0    Q: LOADING FROM AUTOCODER TAPE?  8  0216  B 700 708 0 GEN      3   700     708
169                 RTW   1,DIFF             READ THE BLOCK                    8  0224  L %U1 838 R GEN      3   %U1     838
170                 BER   )6M003               Q: TAPE ERROR?                  5  0232  B 728 L     GEN      3   728
171                 CS    BEGIN9,)9R003        ENTER THE BLOCK                 7  0237  / 839 255   GEN      4   839     255
172         )9J003  DCW   @DIMEN ONE@          PHASE ID                        9  0252              GEN      4
173                 DC    #1                                                  1  0253              GEN      4
174                 DC    @9@          PHASE NUMBER                           1  0254              GEN      4
175         )9R003  DCW   @}@                                                 1  0255              GEN      4
176                 XFR   PHAS9                                                     B 201               4   201
177         *
178                 ORG   BEGIN3                                                    0838
179 *  838  DIFF    DCW   @0@   WM IF FP WIDTH /= INTEGER WIDTH                1  0838                        5
180 *  839  BEGIN9  SW    GM                                                  4  0839  , W59                 5  1659
181    843          MCW   83,X1         TOP OF TOP (FIRST) STATEMENT         7  0843  M 083 089             5   083     089
182    850          A     KB1,MANTIS    GET RID OF ZONES IN MANTIS           7  0850  A W69 692             5  1669     692
183    857          MCW   MANTIS,MANP2                                       7  0857  M 692 W71             5   692    1671
184    864          A     KP2,MANP2     MANTIS + 2 = TOTAL FP WIDTH          7  0864  A W72 W71             5  1672    1671
185    871          C     IMOD,MANP2    FP WIDTH == INTEGER WIDTH?           7  0871  C 690 W71             6   690    1671
186    878          BU    DIFWID                                             5  0878  B 887 /               6   887
187    883          CW    DIFF                                               4  0883  ) 838                 6   838
188    887  DIFWID  LCA   GM,1&X1       SET GMWM ABOVE STATEMENT             7  0887  L W59 0|1             6  1659     001+1
189    894          LCA   TOPCOR,X2     X2 = TOPCOR                          7  0894  L 688 094             6   688     094
190    901          MN    0&X2                                               4  0901  D 0!0                 6   000+2
191    905          MN                                                       1  0905  D                     6
192    906          MCW   KB1A                                               4  0906  M W73                 7  1673
193    910          SBR   X2            X2 = TOPCOR - 3                      4  0910  H 094                 7   094
194    914  PREV    MCW   KB1,1-0       CLOBBER PREVIOUS LESS-THAN SIGN      7  0914  M W69 001             7  1669     001
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR
195    921         MCW   KLESS,2&X1    STMT TOP + 2 = LESS-THAN SIGN     7  0921  M W74 0|2          7  1674     002+1
196    928         NOP   2&X1                                           4  0928  N 0|2              7   002+1
197    932         SAR   PREV&6        REMEMBER WHERE WE PUT IT          4  0932  Q 920              7   920
198    936         LCA   0&X1,PREFIX                                    7  0936  L 0|0 W58          7   000+1  1658
199    943         SAR   X1            POINT X1                          4  0943  Q 089              8   089
200    947         SBR   X3              AND X3 AFTER LABEL              4  0947  H 099              8   099
201    951         BCE   DONE,PREFIX,     NO MORE STATEMENTS?           8  0951  B V45 W58          8  1545    1658
202    959         BCE   FIND,PREFIX-3,I  DIMENSION STATEMENT?           8  0959  B 979 W55 I        8   979    1655
203    967         BCE   END,PREFIX-3,/   END STATEMENT?                 8  0967  B V33 W55 /        8  1533    1655
204    975         B     DONE                                            4  0975  B V45              8  1545
205        *
206        * SKIP OVER THE ARRAY NAME -- MUST END WITH LEFT PAREN
207        *
208    979 FIND    BCE   LPAREN,0&X1,%                                   8  0979  B |19 0|0 %          9  1019     000+1
209    987         BCE   SYNTAX,0&X1,,                                   8  0987  B U84 0|0 ,          9  1484     000+1
210    995         BCE   SYNTAX,0&X1,)                                   8  0995  B U84 0|0 )          9  1484     000+1
211  1 003         BCE   SYNTAX,0&X1,}                                   8  1003  B U84 0|0 } GMARK    9  1484     000+1
212  1 011         SBR   X1                                              4  1011  H 089              9   089
213  1 015         B     FIND                                            4  1015  B 979             10   979
214        *
215        * FOUND THE LEFT PAREN
216        *
217  1 019 LPAREN SW    LPFLAG                                          4  1019  , W68             10  1668
218  1 023        MN    0&X1       GET BELOW                            4  1023  D 0|0             10   000+1
219  1 027        SAR   X1           LEFT PAREN                         4  1027  Q 089             10   089
220  1 031        SW    2&X1       SET WORD MARK AT BOTTOM OF SYMBOL     4  1031  , 0|2             10   002+1
221  1 035        MCW   X2,SAVX2                                        7  1035  M 094 W77         10   094    1677
222  1 042        BW    FIRST,FIRSTF                                    8  1042  V /12 W78 1       10  1112    1678
223        *
224        * CHECK WHETHER SYMBOL IS IN THE TABLE.  X2 IS AT BOTTOM
225        * OF THE BOTTOM SYMBOL ENTRY.
226        *
227  1 050 CHECK  MCM   1&X2                                            4  1050  P 0!1             11   001+2
228  1 054        SAR   X2                                              4  1054  Q 094             11   094
229  1 058        BCE   FIRST,0&X2,  TOP OF THE TABLE?                  8  1058  B /12 0!0         11  1112     000+2
230  1 066 HIGHER MCM   2&X2       MOVE UP TO NEXT ELEMENT              4  1066  P 0!2             11   002+2
231  1 070        MN                                                    1  1070  D                 11
232  1 071        MN                                                    1  1071  D                 11
233  1 072        SBR   X2         TOP OF ELEMENT (MAYBE)               4  1072  H 094             11   094
234  1 076        BCE   HIGHER,1&X2,|  NEED TO MOVE UP MORE IF RM       8  1076  B |66 0!1 |       12  1066     001+2
235  1 084 COMPAR C     0&X2,0&X3  SAME AS ALREADY IN TABLE?             7  1084  C 0!0 0?0         12   000+2  000+3
236  1 091        SAR   X2                                              4  1091  Q 094             12   094
237  1 095        BU    CHECK                                           5  1095  B |50 /           12  1050
238  1 100        BW    DOUBLE,1&X2                                     8  1100  V T56 0!1 1       12  1356     001+2
239  1 108        B     CHECK                                           4  1108  B |50             12  1050
240  1 112 FIRST  MCW   SAVX2,X2                                        7  1112  M W77 094         13  1677     094
241  1 119        LCA   GM,0&X2     MARK TOP OF ELEMENT                 7  1119  L W59 0!0         13  1659     000+2
242  1 126        LCA   0&X3        SYMBOL TO ELEMENT                   4  1126  L 0?0             13   000+3
243  1 130        LCA   NEWX3       CHAIN                               4  1130  L W62             13  1662
244  1 134        SBR   X2          BELOW CHAIN IN ELEMENT              4  1134  H 094             13   094
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

245  1 138          MCW   NEWX3,X3                                      7  1138  M W62 099           13  1662     099
246  1 145          BCE   HEAD,X3,                                      8  1145  B /57 099           14  1157     099
247  1 153          B     NOHEAD                                        4  1153  B /64               14  1164
248  1 157  HEAD    A     KB1,X3      CONVERT BLANK X3 TO ZEROES        7  1157  A W69 099           14  1669     099
249  1 164  NOHEAD  LCA   K3B,0&X2    PUT TWO THREE-CHARACTER           7  1164  L W81 0!0           14  1681     000+2
250  1 171          LCA   K3B           FIELDS INTO SYMBOL TABLE        4  1171  L W81               14  1681
251  1 175          SBR   6&X3        LINK PREV ELEMENT TO THIS ONE     4  1175  H 0?6               14   006+3
252  1 179          SBR   NEWX3                                         4  1179  H W62               14  1662
253  1 183          LCA   K5B         ADD FIVE SPACES TO ELEMENT        4  1183  L W86               15  1686
254  1 187          SBR   X2            AND GET X2 BELOW IT             4  1187  H 094               15   094
255  1 191  NOTHER  MN    DIMSAV-4    MAKE X3&2                         4  1191  D W63               15  1663
256  1 195          MN                  BE THE HIGH-ORDER               1  1195  D                   15
257  1 196          SAR   X3              DIGIT OF DIMSAV               4  1196  Q 099               15   099
258  1 200          SBR   X1,0&X1     STRANGE KIND OF NOP?              7  1200  H 089 0|0           15   089     000+1
259           *
260           * ACCUMULATE CHARACTERS OF DIMENSION
261           *
262  1 207  MORE    MCW   0&X1,CHAR  GET CHARACTER FROM DIMENSION FIELD  7  1207  M 0|0 W87           15   000+1  1687
263  1 214          SAR   X1            AND STEP DOWN TO NEXT ONE       4  1214  Q 089               16   089
264  1 218          BCE   DIMFIN,CHAR,)                                 8  1218  B S57 W87 )         16  1257    1687
265  1 226          BCE   DIMFIN,CHAR,}                                 8  1226  B S57 W87 } GMARK   16  1257    1687
266  1 234          BCE   DIMFIN,CHAR,,                                8  1234  B S57 W87 ,         16  1257    1687
267  1 242          MCW   CHAR,2&X3  STORE CHAR IN DIMENSION SAVE       7  1242  M W87 0?2           16  1687     002+3
268  1 249          SBR   X3                                            4  1249  H 099               16   099
269  1 253          B     MORE                                          4  1253  B S07               17  1207
270  1 257  DIMFIN  BCE   SYNTAX,1&X1,}                                 8  1257  B U84 0|1 } GMARK   17  1484     001+1
271  1 265          LCA   1&X3,0&X2  MOVE DIMENSION TO SYMBOL TABLE     7  1265  L 0?1 0!0           17   001+3   000+2
272  1 272          SBR   X2                                            4  1272  H 094               17   094
273  1 276          BCE   NOTHER,1&X1,,  GET ANOTHER DIMENSION          8  1276  B /91 0|1 ,         17  1191     001+1
274  1 284          MCW   PREV&6,X3                                     7  1284  M 920 099           17   920     099
275  1 291          BCE   NOTBIG,0&X3,<                                 8  1291  B T03 0?0 <         18  1303     000+3
276  1 299          B     TOOBIG                                        4  1299  B W14               18  1614
277  1 303  NOTBIG  CW    FIRSTF  CLEAR FIRST-TIME FLAG                 4  1303  ) W78               18  1678
278  1 307  TSTFIN  BCE   FINI,0&X1,}  FINISHED                        8  1307  B T44 0|0 } GMARK   18  1344     000+1
279  1 315          B                   WITH STATEMENT?                 1  1315  B                   18
280  1 316          BCE   NEWVAR,0&X1,,  ANOTHER VARIABLE?              8  1316  B T28 0|0 ,         18  1328     000+1
281  1 324          B     SYNTAX                                        4  1324  B U84               18  1484
282  1 328  NEWVAR  MN    0&X1        GET BELOW COMMA                   4  1328  D 0|0               19   000+1
283  1 332          SAR   X1                                            4  1332  Q 089               19   089
284  1 336          SBR   X3                                            4  1336  H 099               19   099
285  1 340          B     FIND          AND GO FIND END OF NEXT VARIABLE 4  1340  B 979               19   979
286           *
287           * FINISHED WITH DIMENSION STATEMENT
288           *
289  1 344  FINI    C     0&X1                                          4  1344  C 0|0               19   000+1
290  1 348          SAR   X1                                            4  1348  Q 089               19   089
291  1 352          B     PREV                                          4  1352  B 914               19   914
292           *
293           * DOUBLY DEFINED ARRAY
294           *
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SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

295  1 356  DOUBLE CS    332                                               4  1356  / 332              20   332
296  1 360         CS                                                      1  1360  /                  20
297  1 361         SW    GLOBER                                            4  1361  , 184              20   184
298  1 365         MCW   ERROR2,230                                        7  1365  M X17 230          20  1717     230
299  1 372         MCW   COMPAR&6,X2                                       7  1372  M |90 094          20  1090     094
300  1 379         MN    232                                               4  1379  D 232              20   232
301  1 383         MN                                                      1  1383  D                  20
302  1 384         SAR   X2                                                4  1384  Q 094              21   094
303  1 388         SBR   X3,0&X3                                          7  1388  H 099 0?0          21   099     000+3
304  1 395  MORECH MCW   0&X3,CH                                          7  1395  M 0?0 X18          21   000+3  1718
305  1 402         SAR   X3                                                4  1402  Q 099              21   099
306  1 406         MCW   CH,2&X2                                          7  1406  M X18 0!2          21  1718     002+2
307  1 413         SBR   X2                                                4  1413  H 094              21   094
308  1 417         BW    DONECH,1&X3   AT THE END OF THE VARIABLE NAME?    8  1417  V U29 0?1 1        22  1429     001+3
309  1 425         B     MORECH                                            4  1425  B T95              22  1395
310  1 429  DONECH W                                                       1  1429  2                  22
311  1 430         BCV   OVFL                                             5  1430  B U39 @            22  1439
312  1 435         B     NOOVFL                                            4  1435  B U41              22  1441
313  1 439  OVFL   CC    1                                                 2  1439  F 1                22
314  1 441  NOOVFL BCE   BOTTOM,0&X1,)  BOTTOM OF STATEMENT?              8  1441  B U65 0|0 )        22  1465     000+1
315  1 449         SBR   X1                                                4  1449  H 089              23   089
316  1 453         BCE   SYNTAX,1&X1,}                                     8  1453  B U84 0|1 } GMARK  23  1484     001+1
317  1 461         B     NOOVFL                                            4  1461  B U41              23  1441
318  1 465  BOTTOM MN    0&X1                                              4  1465  D 0|0              23   000+1
319  1 469         SAR   X1                                                4  1469  Q 089              23   089
320  1 473         MCW   SAVX2,X2                                         7  1473  M W77 094          23  1677     094
321  1 480         B     TSTFIN                                            4  1480  B T07              23  1307
322         *
323         * DIMENSION SYNTAX ERROR
324         *
325  1 484  SYNTAX CS    332                                               4  1484  / 332              24   332
326  1 488         CS                                                      1  1488  /                  24
327  1 489         SW    GLOBER                                            4  1489  , 184              24   184
328  1 493         MN    PREFIX,241                                        7  1493  D W58 241          24  1658     241
329  1 500         MN                                                      1  1500  D                  24
330  1 501         MN                                                      1  1501  D                  24
331  1 502         MCW   ERROR3                                           4  1502  M X56              24  1756
332  1 506         W                                                       1  1506  2                  25
333  1 507         BCV   OVFL2                                             5  1507  B V16 @            25  1516
334  1 512         B     NOVL2                                             4  1512  B V18              25  1518
335  1 516  OVFL2  CC    1                                                 2  1516  F 1                25
336  1 518  NOVL2  MCW   SAVX2,X2                                         7  1518  M W77 094          25  1677     094
337  1 525         BCE   PREV,1&X1,}                                       8  1525  B 914 0|1 } GMARK  25   914     001+1
338  1 533  END    C     0&X1                                              4  1533  C 0|0              25   000+1
339  1 537         SAR   X1                                                4  1537  Q 089              26   089
340  1 541         B     PREV                                              4  1541  B 914              26   914
341         *
342  1 545  DONE   BW    GOTLP,LPFLAG                                      8  1545  V V88 W68 1        26  1588    1668
343  1 553         LCA   GM,0&X2                                           7  1553  L W59 0!0          26  1659     000+2
344  1 560         LCA   COLON                                             4  1560  L X57              26  1757
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SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR
345  1 564          LCA   W3                                                4  1564  L X60              26  1760
346  1 568          LCA   W3                                                4  1568  L X60              26  1760
347  1 572          LCA   W3                                                4  1572  L X60              27  1760
348  1 576          LCA   W5                                                4  1576  L X65              27  1765
349  1 580          LCA   W10                                               4  1580  L X67              27  1767
350  1 584          SBR   X2                                                4  1584  H 094              27   094
351  1 588  GOTLP   NOP   2&X1                                             4  1588  N 0|2              27   002+1
352  1 592          MCM                                                     1  1592  P                  27
353  1 593          MCW                                                     1  1593  M                  27
354  1 594          SAR   X1                                                4  1594  Q 089              28   089
355  1 598          MCW   6,86          TOPMOST TABLE ENTRY ADDRESS TO 86   7  1598  M 006 086          28   006     086
356  1 605          BSS   SNAPSH,C                                          5  1605  B 333 C            28   333
357  1 642          B     LOADNX                                            4  1610  B 700              28   700
358          *
359          * PROGRAM IS TOO BIG
360          *
361  1 646  TOOBIG  CS    332                                               4  1614  / 332              28   332
362  1 650          CS                                                      1  1618  /                  28
363  1 651          CC    1                                                 2  1619  F 1                28
364  1 653          MCW   MSG2,270                                          7  1621  M Y03 270          29  1803     270
365  1 660          W                                                       1  1628  2                  29
366  1 661          CC    1                                                 2  1629  F 1                29
367  1 663          BCE   HALT,CDOVLY,1                                    8  1631  B W44 700 1        29  1644     700
368  1 671          RWD   1                                                 5  1639  U %U1 R            29   %U1
369  1 676  HALT    H     HALT                                              4  1644  . W44              29  1644
370          *
371          * DATA
372          *
373  1 690  PREFIX  DCW   @0          @                                  11  1658                     29
374  1 691  GM      DC    @}@                                             1  1659            GMARK    29
375  1 694  NEWX3   DCW   #3                                               3  1662                     30
376  1 699  DIMSAV  DCW   #5                                               5  1667                     30
377  1 700  LPFLAG  DC    #1   WM IN LOW-ORDER CHARACTER IF LEFT PAREN      1  1668                     30
378  1 701  KB1     DCW   #1                                               1  1669                     30
379  1 703  MANP2   DCW   #2   MANTIS + 2                                  2  1671                     30
380  1 704  KP2     DCW   &2                                               1  1672                     30
381  1 705  KB1A    DCW   #1                                               1  1673                     30
382  1 706  KLESS   DCW   @<@                                             1  1674                     30
383  1 709  SAVX2   DCW   #3                                               3  1677                     31
384  1 710  FIRSTF  DCW   #1   WM IS FIRST-TIME FLAG                       1  1678                     31
385  1 713  K3B     DCW   #3                                               3  1681                     31
386  1 718  K5B     DCW   #5                                               5  1686                     31
387  1 719  CHAR    DCW   #1   CHARACTER FROM DIMENSION FIELD              1  1687                     31
388  1 749  ERROR2  DCW   @ERROR 2 - DOUBLY DEFINED ARRAY@                30  1717                     32
389  1 750  CH      DCW   #1                                              1  1718                     32
390  1 788  ERROR3  DCW   @ERROR 3 - DIMENSION SYNTAX, STATEMENT @        38  1756                     33
391  1 789  COLON   DCW   @:@                                             1  1757                     33
392  1 792  W3      DCW   #3                                              3  1760                     34
393  1 797  W5      DCW   #5                                              5  1765                     34
394  1 799  W10     DCW   10                                              2  1767                     34
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR
395  1 844  MSG2    DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@        36  1803                      35
396         200     DCW   #1  MAKE SURE 1-80 ARE BLANK -- SEE MCW 6,86  1  0200                      36
397  1 845  GMWM    DCW   @}@                                          1  1804            GMARK     37
398                 XFR   BEGIN9                                             B 839                 37   839
399         *
400         CLRME   CLRA  BEGIN9,GMWM                                            MACRO
            *       CLRA  CLRBOT,CLRTOP[,ORG,GMWMAD]                             GEN
            *                                                                    GEN
            * CLEAR CORE AFTER A PHASE USING THE CLRTOP ADDRESS                  GEN
            *                                                                    GEN
401                 ORG   201                                                 0201
            *                                                                    GEN
            * CLEAR DOWN TO CLRBOT & X00 THE EASY WAY                            GEN
            *                                                                    GEN
402         CLRME   EQU   *&1                                            0201  GEN
403         )0J004  CS    GMWM         CLEAR FROM CLRTOP                4  0201  / Y04       GEN     38  1804
404                 SBR   )0J004&3                                       4  0205  H 204       GEN     38   204
405                 SBR   )0L004&6                                       4  0209  H 250       GEN     38   250
406                 C     )0J004&3,)0M004   DOWN TO CLRBOT & X00?       7  0213  C 204 261   GEN     38   204     261
407                 BU    )0J004                                         5  0220  B 201 /     GEN     38   201
            *                                                                    GEN
            * NOW CLEAR DOWN TO CLRBOT THE HARD WAY                             GEN
            *                                                                    GEN
408         )0K004  C     )0L004&6,)0N004                                 7  0225  C 250 264   GEN     38   250     264
409                 BU    )0L004                                         5  0232  B 244 /     GEN     38   244
410                 CS    LOADNX,)0Q004  LOAD THE NEXT BLOCK AT 1        7  0237  / 700 271   GEN     39   700     271
411         )0L004  LCA   )0P004,0-0     CLEAR WITH BLANK AND WORD MARK   7  0244  L 265 000   GEN     39   265     000
412                 SBR   )0L004&6                                       4  0251  H 250       GEN     39   250
413                 B     )0K004                                         4  0255  B 225       GEN     39   225
414         )0M004  DSA   )0R004         CLRBOT & X00 - 1               3  0261  899         GEN     39   899
415         )0N004  DSA   BEGIN9         CLRBOT                         3  0264  839         GEN     39   839
416         )0P004  DCW   #1                                            1  0265              GEN     39
417                 DC    @CLRA @     IDENTIFY IN A DECK, TAPE, OR DUMP  5  0270              GEN     39
418         )0Q004  DCW   @}@                                          1  0271              GEN     40
419                 ORG   BEGIN9&X00                                           0900
420         )0R004  EQU   *           CLRBOT & X00 - 1                    0899              GEN
421                 XFR   CLRME                                              B 201                 40   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 | 0252: 0 | )9R003 | 0255: 0 | BEGIN3 | 0838: 0 | BEGIN9 | 0839: 0 | BOTTOM | 1465: 0 | CDOVLY | 0700: 0 |
| CH | 1718: 0 | CHAR | 1687: 0 | CHECK | 1050: 0 | CLRME | 0201: 0 | COLON | 1757: 0 | COMPAR | 1084: 0 |
| DIFF | 0838: 0 | DIFWID | 0887: 0 | DIMFIN | 1257: 0 | DIMSAV | 1667: 0 | DONE | 1545: 0 | DONECH | 1429: 0 |
| DOUBLE | 1356: 0 | END | 1533: 0 | ERROR2 | 1717: 0 | ERROR3 | 1756: 0 | FIND | 0979: 0 | FINI | 1344: 0 |
| FIRST | 1112: 0 | FIRSTF | 1678: 0 | GLOBER | 0184: 0 | GM | 1659: 0 | GMWM | 1804: 0 | GOTLP | 1588: 0 |
| HALT | 1644: 0 | HEAD | 1157: 0 | HIGHER | 1066: 0 | IMOD | 0690: 0 | K3B | 1681: 0 | K5B | 1686: 0 |
| KB1 | 1669: 0 | KB1A | 1673: 0 | KLESS | 1674: 0 | KP2 | 1672: 0 | LOADNX | 0700: 0 | LPAREN | 1019: 0 |
| LPFLAG | 1668: 0 | MANP2 | 1671: 0 | MANTIS | 0692: 0 | MORE | 1207: 0 | MORECH | 1395: 0 | MSG2 | 1803: 0 |
| NEWVAR | 1328: 0 | NEWX3 | 1662: 0 | NOHEAD | 1164: 0 | NOOVFL | 1441: 0 | NOTBIG | 1303: 0 | NOTHER | 1191: 0 |
| NOVL2 | 1518: 0 | OVFL | 1439: 0 | OVFL2 | 1516: 0 | PHAS9 | 0201: 0 | PHASLD | 0381: 0 | PREFIX | 1658: 0 |
| PREV | 0914: 0 | SAVX2 | 1677: 0 | SNAPEX | 0564: 0 | SNAPSH | 0333: 0 | SYNTAX | 1484: 0 | TOOBIG | 1614: 0 |
| TOP3 | 2600: 0 | TOPCOR | 0688: 0 | TPERR | 0728: 0 | TPREAD | 0704: 0 | TSTFIN | 1307: 0 | W10 | 1767: 0 |
| W3 | 1760: 0 | W5 | 1765: 0 | X1 | 0089: 0 | X2 | 0094: 0 | X3 | 0099: 0 | | |

UNREFERENCED SYMBOLS

PHASLD SNAPEX TOP3 TPERR TPREAD