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

101                JOB   FORTRAN COMPILER -- SORT THREE PHASE -- PHASE 06
102                CTL   6611
103         *
104         * SORT THREE PHASE: SORT STATEMENTS BY TYPE, SHIFT TO LOW
105         * MEMORY.
106         * 81-83 IS THE ADDRESS OF THE LAST CHARACTER (LOWEST IN CORE,
107         * ONE ABOVE GMWM) OF THE LAST (LOWEST IN CORE) STATEMENT.
108         *
109         X1     EQU   89                                                        0089
110         X2     EQU   94                                                        0094
111         X3     EQU   99                                                        0099
112         *
113         * STUFF IN THE RESIDENT AREA
114         *
115         TOPCOR EQU   688  TOP CORE ADDRESS FROM PARAM CARD                     0688
116         *
117                EXT00   SNAPSH, LOADNX, CDOVLY                                                MACRO
118         SNAPSH EQU   333                                                       0333            GEN
119         PHASLD EQU   381                                                       0381            GEN
120         SNAPEX EQU   564                                                       0564            GEN
121         LOADNX EQU   700   CARD OVERLAY UNLESS NOP                           0700            GEN
122         CDOVLY EQU   700   1 IF LOADING FROM CARDS, N IF FROM TAPE           0700            GEN
123         TPREAD EQU   704   LOAD OVERLAY FROM TAPE                            0704            GEN
124         TPERR  EQU   728                                                       0728            GEN
125         *
126                EXT04   STUFF IN PHASE 4                                                       MACRO
127         TYPTAB EQU   840   BLANK                                             0840            GEN
128         BEGN4X EQU   1022  ADDRESS OF END OF LAST STATEMENT                  1022            GEN
129         * TYPTAB  TYPE TABLE (WORD MARKS SET IN PHASE 4)
130         *         INDEXED BY 30*(ZONE OF STATEMENT CODE) +
131         *         3*(NUMERIC PART OF STATEMENT CODE).  EACH
132         *         ENTRY IS THE ADDRESS OF THE EARLIEST (HIGHEST
133         *         ADDRESS) STATEMENT OF A TYPE.  EACH STATEMENT
134         *         HAS A POINTER TO THE NEXT ONE (LOWER IN CORE)
135         *         OF THE SAME TYPE AS ITS FIRST THREE (HIGHEST
136         *         ADDRESS) CHARACTERS.
137         *
138                EXT05   STUFF IN PHASE 5                                                       MACRO
139         BEGIN5 EQU   1022                                                      1022            GEN
140         EOTWO  EQU   2000                                                      2000            GEN
141         END5   EQU   2900                                                      2900            GEN
142         *
143         110    DCW   @SORTER TRI@                                        10  0110                      1
144         *
145         PHAS6  LDPH  SORTER TRI,LOADAD,BEGIN6,,,6                                              MACRO
            * PHAZ   LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]                       GEN
            *        XFR  PHASZ     PROHIBITED IN A MACRO                                          GEN
            *                                                                                      GEN
            * LOAD A BLOCK                                                                         GEN
            *                                                                                      GEN
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SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

146         )6J004  EQU   110  PHASE ID                                          0110            GEN
147         )6K004  EQU   700  LOAD NEXT PHASE                                  0700            GEN
148         )6L004  EQU   704  TAPE READ INSTRUCTION                           0704            GEN
149         )6M004  EQU   728  TAPE ERROR HANDLER                              0728            GEN
            *                                                                                  GEN
150                 ORG   201                                                        0201
151         PHAS6   BSS   )8J004,G                                           5  0201  B 257 G     GEN      2   257
152                 NOP     TO PATCH IN TRAPS FOR DEBUGGING                  1  0206  N           GEN      2
153         )0J004  EQU   *&1                                                 0207            GEN
154                 LCA   )9J004,)6J004                                      7  0207  L 282 110   GEN      2   282     110
155                 BCE   )1J004,)6K004,1    Q: LOADING FROM CARDS?          8  0214  B 250 700 1 GEN      2   250     700
156                 BCE   )1J004,)6L004&4,0  Q: LOADING FROM AUTOCODER TAPE?  8  0222  B 250 708 0 GEN      2   250     708
157                 RTW   1,LOADAD           READ THE BLOCK                  8  0230  L %U1 |11 R GEN      2   %U1    1011
158                 BER   )6M004             Q: TAPE ERROR?                  5  0238  B 728 L     GEN      3   728
159                 CS    BEGIN6,)9R004      ENTER THE BLOCK                 7  0243  / |11 285   GEN      3  1011     285
160         )1J004  CS    )6K004,)9R004      LOAD CARDS OR AUTOCODER TAPE    7  0250  / 700 285   GEN      3   700     285
161         )8J004  SW    )9R004                                           4  0257  , 285       GEN      3   285
162                 MU    %T0,)8K004,W                                     8  0261  M %T0 273 W GEN      3   %T0     273
163                 H     )0J004                                           4  0269  . 207       GEN      3   207
164         )8K004  EQU   *&1                                                 0273            GEN
165         )9J004  DCW   @SORTER TRI@          PHASE ID                   10  0282            GEN      4
166                 DCW   #1                                               1  0283            GEN      4
167                 DC    @6@          PHASE NUMBER                        1  0284            GEN      4
168         )9R004  DCW   @}@                                              1  0285            GEN      4
169                 XFR   PHAS6                                                    B 201             4   201
170         *
171                 ORG   BEGIN5-11  ELEVEN BEFORE MOKOTOFF V3M0.LST LINE          1011
172         *               1018 BECAUSE WE SET THE GMWM AT 2900 INSTEAD
173         *               OF LOADING IT, TO AVOID SPLITTING THE BLOCK
174         LOADAD  EQU   *&1          LOAD ADDRESS                               1011
175  1 022  BEGIN6 MCW   83,X3  ADDRESS AT END OF LAST STATEMENT              7  1011  M 083 099           5   083     099
176  1 029         SW    GM                                                 4  1018  , X65               5  1765
177                 LCA   GM,END5    SEE MOKOTOFF V3M0.LST LINE 1216        7  1022  L X65 R00           5  1765    2900
178                 CS    GMWM                                               4  1029  / J00               5  2100
179  1 033         SBR   X1,END5-1  BOTTOM OF FREE STORAGE                  7  1033  H 089 Q99           5   089    2899
180  1 040         SW    END5                                               4  1040  , R00               5  2900
181  1 044         MN    0&X3   COMPUTE ADDRESS BELOW LAST STATEMENT,        4  1044  D 0?0               5   000+3
182  1 048         LCA   GM       PUT A GMWM THERE                          4  1048  L X65               6  1765
183  1 052         SBR   SAVE&6     AND STORE ADDRESS BELOW GMWM             4  1052  H /10               6  1110
184  1 056         SBR   W3,TABIXS  GET LAST TYPTAB INDEX                    7  1056  H X69 X58           6  1769    1758
185  1 063  LOOP   MCW   W3,X3      GET NEXT HEAD                            7  1063  M X69 099           6  1769     099
186  1 070         MCW   0&X3,X3      OF CHAIN TO X3                         7  1070  M 0?0 099           6   000+3   099
187  1 077         SAR   W3                                                 4  1077  Q X69               6  1769
188  1 081         BCE   DONE,X3,X  END OF THE TABLE?                       8  1081  B 700 099 X         7   700     099
189  1 089         MCW   TYPTAB&X3,X3  HEAD OF LIST OF STATEMENTS OF TYPE   7  1089  M 8D0 099           7   840+3   099
190  1 096         BCE   LOOP,X3,   NO STATEMENTS OF THE TYPE               8  1096  B |63 099           7  1063     099
191         *
192         * MOVE ALL STATEMENTS OF THE TYPE DOWN TO LOW CORE
193         *
194  1 104  SAVE   MCW   0&X3,0-0   MOVE STATEMENT TO SAVE AREA              7  1104  M 0?0 000           7   000+3   000
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SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

195  1 111          SAR   X2                                                4  1111  Q 094               7   094
196  1 115          BCE   *&5,1&X2,}  DID WE MOVE THE GM?                  8  1115  B /27 0!1 } GMARK   8  1127     001+2
197  1 123          B     NOROOM      NO, MAYBE WE'RE OUT OF SPACE          4  1123  B S95               8  1295
198  1 127          SBR   X2,2&X2     GET BACK ABOVE GMWM, TO BOTTOM OF STMT 7  1127  H 094 0!2           8   094     002+2
199  1 134  MORE    MCM   0&X2        COMPUTE ADDRESS ABOVE TOP OF STATEMENT 4  1134  P 0!0               8   000+2
200  1 138          SBR   SX2&6         AND SAVE IT                         4  1138  H /67               8  1167
201  1 142          MCM   0&X2,1&X1   MOVE STATEMENT TO BOTTOM OF FREE AREA, 7  1142  P 0!0 0|1           8   000+2   001+1
202  1 149          SBR   X1            BUMP POINTER TO BOTTOM,             4  1149  H 089               8   089
203  1 153          MN    0&X1            THEN BACK DOWN TO GM              4  1153  D 0|0               9   000+1
204  1 157          SBR   X1                AND SAVE IT                     4  1157  H 089               9   089
205  1 161  SX2     SBR   X2,0-0      MOVE UP TO RECORD MARK OR GM          7  1161  H 094 000           9   094     000
206  1 168          BCE   MORE,0&X1,|  MORE TO GO IF STMT CONTAINS RM       8  1168  B /34 0|0 |         9  1134     000+1
207  1 176          SBR   X1,1&X1     BUMP POINTER ABOVE GM                 7  1176  H 089 0|1           9   089     001+1
208  1 183          CW    BIGFLG                                            4  1183  ) X66               9  1766
209  1 187          MN    0&X1        NOW SUBTRACT                          4  1187  D 0|0               9   000+1
210  1 191          MN                  FOUR FROM                           1  1191  D                  10
211  1 192          MN                    X1 TO RECOVER                     1  1192  D                  10
212  1 193          MN                      SPACE USED FOR                  1  1193  D                  10
213  1 194          SAR   X1                  SAME-TYPE LINK                4  1194  Q 089              10   089
214  1 198          LCA   GM,0&X1     MARK TOP OF STATEMENT                 7  1198  L X65 0|0          10  1765     000+1
215  1 205          SBR   83          STORE ADDRESS OF TOP OF STATEMENT     4  1205  H 083              10   083
216  1 209          SBR   X1            AND IN X1                         4  1209  H 089              10   089
217  1 213  MORE2    MCM   1&X1        COMPUTE ADDRESS ABOVE TOP OF STATEMENT, 4  1213  P 0|1              11   001+1
218  1 217          MN                  GET BACK DOWN TO RM OR GMWM         1  1217  D                  11
219  1 218          SAR   X1              AND SAVE IT                       4  1218  Q 089              11   089
220  1 222          BCE   MORE2,0&X1,|  MORE TO GO IF STMT CONTAINS RM       8  1222  B S13 0|0 |        11  1213     000+1
221  1 230          MN    0&X3        SUBTRACT                              4  1230  D 0?0              11   000+3
222  1 234          MN                  SIX                                 1  1234  D                  11
223  1 235          MN                    FROM                              1  1235  D                  11
224  1 236          MN                      X3                              1  1236  D                  12
225  1 237          MN                      ,,                              1  1237  D                  12
226  1 238          MN                      ,,                              1  1238  D                  12
227  1 239          SAR   X3                ,,                              4  1239  Q 099              12   099
228  1 243          MN    0&X1        COMPUTE -1&X1 INTO B-STAR             4  1243  D 0|0              12   000+1
229  1 247          LCA   3&X3        COPY SEQUENCE NUMBER                  4  1247  L 0?3              12   003+3
230  1 251          MCW   POUND,0&X3                                        7  1251  M X70 0?0          12  1770     000+3
231  1 258  MORE3    MCM   2&X3        POINT X3                              4  1258  P 0?2              13   002+3
232  1 262          MN                  BACK AT                             1  1262  D                  13
233  1 263          MN                    TOP OF                            1  1263  D                  13
234  1 264          SAR   X3              STATEMENT                         4  1264  Q 099              13   099
235  1 268          BCE   MORE3,1&X3,|  MORE TO GO IF STMT CONTAINS RM       8  1268  B S58 0?1 |        13  1258     001+3
236  1 276          BCE   LOOP,0&X3,  LAST STATEMENT ON CHAIN?              8  1276  B |63 0?0           13  1063     000+3
237  1 284          MCW   0&X3,X3     NO, GET NEXT STATEMENT IN CHAIN       7  1284  M 0?0 099          13   000+3   099
238  1 291          B     SAVE          AND SAVE IT                       4  1291  B /04              14  1104
239          *
240          * NO ROOM TO MOVE STATEMENT BELOW BOTTOM STATEMENT
241          *
242  1 295  NOROOM  BW    TOOBIG,BIGFLG                                     8  1295  V W47 X66 1        14  1647    1766
243  1 303          SW    BIGFLG                                            4  1303  , X66              14  1766
244  1 307          MCW   TOPCOR,X2                                         7  1307  M 688 094          14   688     094
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SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

245  1 314         MN    0&X2                                          4  1314  D 0!0              14   000+2
246  1 318         SAR   X2          X2 IS TOPCOR-1 NOW                4  1318  Q 094              14   094
247  1 322         MCW   X2,X3                                         7  1322  M 094 099          14   094     099
248  1 329  MOVEUP LCA   0&X2,0&X3  MOVE STATEMENT UP                  7  1329  L 0!0 0?0          15   000+2   000+3
249  1 336         SAR   X2                                            4  1336  Q 094              15   094
250  1 340         MCW   0&X3,PREFIX                                   7  1340  M 0?0 X79          15   000+3  1779
251  1 347         BCE   MOVED,PREFIX-6,#  STATEMENT ALREADY MOVED?    8  1347  B T66 X73 #        15  1366    1773
252  1 355         LCA   0&X3,0&X3  NO, DECREMENT X3 SO AS NOT TO      7  1355  L 0?0 0?0          15   000+3   000+3
253  1 362         SAR   X3            CLOBBER RECENTLY MOVED STATEMENT  4  1362  Q 099              15   099
254  1 366  MOVED  C     SAVE&6,X2  DONE?                              7  1366  C /10 094          16  1110     094
255  1 373         BU    MOVEUP     NO, MOVE ANOTHER ONE               5  1373  B T29 /            16  1329
256  1 378         MCW   X3,SAVE&6  BELOW LAST MOVED STATEMENT         7  1378  M 099 /10          16   099    1110
257  1 385         MCW   X3,X2                                         7  1385  M 099 094          16   099     094
258  1 392         MZ    X3,X3999   COMPUTE X3 & X00 - 1               7  1392  Y 099 X64          16   099    1764
259  1 399         MZ                                                  1  1399  Y                  16
260  1 400         MCW                                                 1  1400  M                  16
261  1 401         MZ    X1,X1999   COMPUTE X1 & X00 - 1               7  1401  Y 089 X61          17   089    1761
262  1 408         MZ                                                  1  1408  Y                  17
263  1 409         MCW                                                 1  1409  M                  17
264  1 410         C     X1999,X3999                                   7  1410  C X61 X64          17  1761    1764
265  1 417         BE    NOCLR                                         5  1417  B U42 S            17  1442
266  1 422  CLR    CS    0&X3       CLEAR FROM X3 DOWN TO X1 & X00     4  1422  / 0?0              17   000+3
267  1 426         SBR   X3                                            4  1426  H 099              17   099
268  1 430         C     X3,X1999                                      7  1430  C 099 X61          18   099    1761
269  1 437         BU    CLR                                           5  1437  B U22 /            18  1422
270  1 442  NOCLR  ZA    TABLEN,TABCNT  TABLE LENGTH TO TABLE COUNTER  7  1442  ? X81 !03          18  1781    2003
271  1 449         S     X3&1                                          4  1449  S 100              18   100
272         *
273         * FILL TYPE TABLE WITH BLANKS
274         *
275  1 453  CLRTAB MCW   KB3,TYPTAB&X3  MARK END OF CHAIN              7  1453  M X84 8D0          18  1784     840+3
276  1 460         S     KP1,TABCNT                                    7  1460  S X85 !03          18  1785    2003
277  1 467         BM    CLRFIN,TABCNT  DONE CLEARING TABLE?           8  1467  V U86 !03 K        19  1486    2003
278  1 475         A     KP3,X3                                        7  1475  A X86 099          19  1786     099
279  1 482         B     CLRTAB                                        4  1482  B U53              19  1453
280         *
281         * RELINK MOVED STATEMENTS INTO TYPE TABLE
282         *
283  1 486  CLRFIN MCM   1&X2       GET X1 TO TOP OF STATEMENT        4  1486  P 0!1              19   001+2
284  1 490         MN                                                  1  1490  D                  19
285  1 491         SAR   X2                                            4  1491  Q 094              19   094
286  1 495         BCE   CLRFIN,0&X2,|  MORE TO DO IF RM INSTEAD OF GMWM  8  1495  B U86 0!0 |      19  1486     000+2
287  1 503         SBR   X2,1&X2    X2 IS NOW BOTTOM OF NEXT STATEMENT  7  1503  H 094 0!1          20   094     001+2
288  1 510         S     X3&1                                          4  1510  S 100              20   100
289  1 514         C     0&X2                                          4  1514  C 0!0              20   000+2
290  1 518         SAR   *&4                                           4  1518  Q V25              20  1525
291  1 522         MCW   0-0,PREFIX   SAVE PREFIX                     7  1522  M 000 X79          20   000    1779
292  1 529         MN    PREFIX-6,X3  3 TIMES                         7  1529  D X73 099          20  1773     099
293  1 536         MCW   X3,TABCNT      NUMERIC PART OF               7  1536  M 099 !03          21   099    2003
294  1 543         A     X3               STATEMENT CODE               4  1543  A 099              21   099
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SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR

295  1 547          A     TABCNT,X3          TO X3                          7  1547  A !03 099           21  2003     099
296  1 554          BWZ   ZONFIN,PREFIX-6,2  ADD 30 TIMES                   8  1554  V V99 X73 2         21  1599    1773
297  1 562          A     KP30,X3              ZONE PART                    7  1562  A X88 099           21  1788     099
298  1 569          BWZ   ZONFIN,PREFIX-6,S      OF STATEMENT               8  1569  V V99 X73 S         22  1599    1773
299  1 577          A     KP30,X3                CODE                       7  1577  A X88 099           22  1788     099
300  1 584          BM    ZONFIN,PREFIX-6          TO X3                    8  1584  V V99 X73 K         22  1599    1773
301  1 592          A     KP30,X3                                           7  1592  A X88 099           22  1788     099
302  1 599  ZONFIN  MN    0&X2       MINUS 2                                4  1599  D 0!0               22   000+2
303  1 603          MN                                                      1  1603  D                   22
304  1 604          MCW   TYPTAB&X3  LINK TO NEXT STATEMENT SAME TYPE       4  1604  M 8D0               22   840+3
305  1 608          C     0&X2       DOWN TO NEXT WORD MARK                 4  1608  C 0!0               23   000+2
306  1 612          SAR   TYPTAB&X3  LINK TYPE TABLE TO STATEMENT TYPE       4  1612  Q 8D0               23   840+3
307  1 616          C     X2,TOPCOR  DONE?                                  7  1616  C 094 688           23   094     688
308  1 623          BU    CLRFIN                                            5  1623  B U86 /             23  1486
309  1 628          MCW   W3,X3      RECOVER X3                             7  1628  M X69 099           23  1769     099
310  1 635          NOP   3&X3                                              4  1635  N 0?3               23   003+3
311  1 639          SAR   W3           PLUS 3                               4  1639  Q X69               23  1769
312  1 643          B     LOOP       BACK TO SORTING                        4  1643  B |63               24  1063
313          *
314          * LOAD NEXT OVERLAY
315          *
316  1 647  DONE    EQU   LOADNX             LOAD IT                                 0700
317          *
318          * PROGRAM IS TOO BIG
319          *
320  1 688  TOOBIG  CS    332                                               4  1647  / 332               24   332
321  1 692          CS                                                      1  1651  /                   24
322  1 693          CC    1                                                 2  1652  F 1                 24
323  1 695          MCW   MSG2,270                                          7  1654  M Y24 270           24  1824     270
324  1 702          W                                                       1  1661  2                   24
325  1 703          CC    1                                                 2  1662  F 1                 24
326  1 705          BCE   HALT,CDOVLY,1                                    8  1664  B W77 700 1         25  1677     700
327  1 713          RWD   1                                                 5  1672  U %U1 R             25   %U1
328  1 718  HALT    H     HALT                                              4  1677  . W77               25  1677
329          *
330          * DATA
331          *
332          * FIRST IS TABLE OF TABLE INDEXES IN THE REVERSE ORDER
333          * WE WANT STATEMENTS SORTED INTO LOW CORE
334          *
335  1 724          DCW   @XXX@  END-OF-TABLE SENTINEL                      3  1683                      25
336  1 727          DSA   117  I DIMENSION                                  3  1686  117                 25   117
337  1 730          DSA   84   Q                                            3  1689  084                 25   084
338  1 733          DSA   108  F FORMAT                                     3  1692  108                 25   108
339  1 736          DSA   9    3 WRITE TAPE                                3  1695  009                 26   009
340  1 739          DSA   3    1 READ                                      3  1698  003                 26   003
341  1 742          DSA   18   6 WRITE OUTPUT TAPE                         3  1701  018                 26   018
342  1 745          DSA   81   M                                           3  1704  081                 26   081
343  1 748          DSA   42   U PUNCH                                     3  1707  042                 26   042
344  1 751          DSA   15   5 READ INPUT TAPE                           3  1710  015                 26   015
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SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR
345  1 754         DSA   69   L                                              3  1713  069               26   069
346  1 757         DSA   87   R ARITHMETIC                                    3  1716  087               27   087
347  1 760         DSA   105  E IF                                           3  1719  105               27   105
348  1 763         DSA   27   9                                              3  1722  027               27   027
349  1 766         DSA   96   B BACKSPACE                                     3  1725  096               27   096
350  1 769         DSA   57   Z REWIND                                       3  1728  057               27   057
351  1 772         DSA   75   N ENDFILE                                      3  1731  075               27   075
352  1 775         DSA   39   T COMPUTED GOTO                                3  1734  039               27   039
353  1 778         DSA   111  G GOTO                                         3  1737  111               28   111
354  1 781         DSA   36   S STOP                                         3  1740  036               28   036
355  1 784         DSA   93   A PAUSE                                        3  1743  093               28   093
356  1 787         DSA   63   J SENSE LIGHT                                  3  1746  063               28   063
357  1 790         DSA   66   K IF SENSE LIGHT                               3  1749  066               28   066
358  1 793         DSA   48   W IF SENSE SWITCH                              3  1752  048               28   048
359  1 796         DSA   99   C CONTINUE                                     3  1755  099               28   099
360  1 799  TABIXS DSA   102  D DO                LAST OF TABLE INDEXES      3  1758  102               29   102
361         *
362  1 802  X1999  DSA   999  X1 & X00 - 1                                    3  1761  999               29   999
363  1 805  X3999  DCW   999  X3 & X00 - 1                                    3  1764                    29
364  1 806  GM     DC    @}@                                                 1  1765            GMARK   29
365  1 807  BIGFLG DC    0  WORD MARK SET IF TOO BIG                         1  1766                    29
366  1 810  W3     DCW   #3                                                  3  1769                    29
367  1 811  POUND  DCW   @#@                                                 1  1770                    29
368  1 820  PREFIX DCW   #9         STATEMENT PREFIX                        9  1779                    29
369  1 822  TABLEN DCW   &39        TYPE TABLE LENGTH                       2  1781                    29
370  1 825  KB3    DCW   #3         THREE BLANKS -- END OF CHAIN SENTINEL   3  1784                    30
371  1 826  KP1    DCW   &1                                                  1  1785                    30
372  1 827  KP3    DCW   &3                                                  1  1786                    30
373  1 829  KP30   DCW   &30                                                 2  1788                    30
374  1 875  MSG2   DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@            36  1824                    31
375                ORG   EOTWO&1  SAME AS MOKOTOFF V3M0.LST LINE 1214                 2001
376  2 003  TABCNT DCW   #3                                                  3  2003                    32
377                ORG   *&X00                                                      2100
378  2 900  GMWM   DCW   @}@                                                 1  2100            GMARK   33
379                XFR   BEGIN6                                                     B |11                 33  1011
380         CLRME  CLRA  TYPTAB-2,TABCNT,C                                                    MACRO
            *      CLRA  CLRBOT,CLRTOP[,SS,HERE,GWMAD]                                        GEN
            *                                                                                 GEN
            * CLEAR CORE AFTER A PHASE USING THE CLRTOP ADDRESS                               GEN
            *                                                                                 GEN
381                ORG   201                                                        0201
            *                                                                               GEN
            * CLEAR DOWN TO CLRBOT & X00 THE EASY WAY                                       GEN
            *                                                                               GEN
382         CLRME  EQU   *&1                                                  0201          GEN
383                BSS   SNAPSH,C                                            5  0201  B 333 C     GEN     34   333
384         )0J005 CS    TABCNT         CLEAR FROM CLRTOP                   4  0206  / !03       GEN     34  2003
385                SBR   )0J005&3                                            4  0210  H 209       GEN     34   209
386                SBR   )0L005&6                                            4  0214  H 255       GEN     34   255
387                C     )0J005&3,)0M005   DOWN TO CLRBOT & X00?             7  0218  C 209 266   GEN     34   209     266
```

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

388                 BU    )0J005                                            5  0225  B 206 /     GEN     34   206
           *                                                                                     GEN
           * NOW CLEAR DOWN TO CLRBOT THE HARD WAY                                              GEN
           *                                                                                     GEN
389        )0K005   C     )0L005&6,)0N005                                   7  0230  C 255 269   GEN     34   255     269
390                 BU    )0L005                                            5  0237  B 249 /     GEN     35   249
391                 CS    LOADNX,)0Q005  LOAD THE NEXT BLOCK AT 1           7  0242  / 700 276   GEN     35   700     276
392        )0L005   LCA   )0P005,0-0     CLEAR WITH BLANK AND WORD MARK    7  0249  L 270 000   GEN     35   270     000
393                 SBR   )0L005&6                                          4  0256  H 255       GEN     35   255
394                 B     )0K005                                            4  0260  B 230       GEN     35   230
395        )0M005   DSA   )0R005         CLRBOT & X00 - 1                  3  0266  899         GEN     35   899
396        )0N005   DSA   TYPTAB-2         CLRBOT                          3  0269  838         GEN     35   838
397        )0P005   DCW   #1                                              1  0270              GEN     36
398                 DC    @CLRA @     IDENTIFY IN A DECK, TAPE, OR DUMP     5  0275              GEN     36
399        )0Q005   DCW   @}@                                             1  0276              GEN     36
400                 ORG   TYPTAB-2&X00                                                0900
401        )0R005   EQU   *           CLRBOT & X00 - 1                        0899              GEN
402                 XFR   CLRME                                                    B 201               36   201
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
)0J004	0207: 0	)0J005	0206: 0	)0K005	0230: 0	)0L005	0249: 0	)0M005	0266: 0	)0N005	0269: 0
)0P005	0270: 0	)0Q005	0276: 0	)0R005	0899: 0	)1J004	0250: 0	)6J004	0110: 0	)6K004	0700: 0
)6L004	0704: 0	)6M004	0728: 0	)8J004	0257: 0	)8K004	0273: 0	)9J004	0282: 0	)9R004	0285: 0
BEGIN5	1022: 0	BEGIN6	1011: 0	BEGN4X	1022: 0	BIGFLG	1766: 0	CDOVLY	0700: 0	CLR	1422: 0
CLRFIN	1486: 0	CLRME	0201: 0	CLRTAB	1453: 0	DONE	0700: 0	END5	2900: 0	EOTWO	2000: 0
GM	1765: 0	GMWM	2100: 0	HALT	1677: 0	KB3	1784: 0	KP1	1785: 0	KP3	1786: 0
KP30	1788: 0	LOADAD	1011: 0	LOADNX	0700: 0	LOOP	1063: 0	MORE	1134: 0	MORE2	1213: 0
MORE3	1258: 0	MOVED	1366: 0	MOVEUP	1329: 0	MSG2	1824: 0	NOCLR	1442: 0	NOROOM	1295: 0
PHAS6	0201: 0	PHASLD	0381: 0	POUND	1770: 0	PREFIX	1779: 0	SAVE	1104: 0	SNAPEX	0564: 0
SNAPSH	0333: 0	SX2	1161: 0	TABCNT	2003: 0	TABIXS	1758: 0	TABLEN	1781: 0	TOOBIG	1647: 0
TOPCOR	0688: 0	TPERR	0728: 0	TPREAD	0704: 0	TYPTAB	0840: 0	W3	1769: 0	X1	0089: 0
X1999	1761: 0	X2	0094: 0	X3	0099: 0	X3999	1764: 0	ZONFIN	1599: 0		

UNREFERENCED SYMBOLS

BEGN4X PHASLD SNAPEX TPERR TPREAD