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

101               JOB   FORTRAN COMPILER -- PHASE 1 -- READ THE PARAM CARD
102               CTL   6611
103         *
104         * LOAD THIS BLOCK AND THE NEXT ONE
105         *
106         PHAS1 LDPH  LOADER,BEGIN1,LOADNX,,,1.1                                                MACRO
            * PHAZ   LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]                    GEN
            *        XFR  PHASZ     PROHIBITED IN A MACRO                                        GEN
            *                                                                                    GEN
            * LOAD A BLOCK                                                                       GEN
            *                                                                                    GEN
107         )6J001 EQU   110  PHASE ID                                        0110              GEN
108         )6K001 EQU   700  LOAD NEXT PHASE                                 0700              GEN
109         )6L001 EQU   704  TAPE READ INSTRUCTION                           0704              GEN
110         )6M001 EQU   728  TAPE ERROR HANDLER                              0728              GEN
            *                                                                                    GEN
111               ORG   201                                                         0201
112         PHAS1 EQU   *&1                                                   0201              GEN
113               LCA   )9J001,)6J001                                      7  0201  L 249 110   GEN      1   249     110
114               BCE   )6K001,)6K001,1      Q: LOADING FROM CARDS?        8  0208  B 700 700 1 GEN      1   700     700
115               BCE   )6K001,)6L001&4,0    Q: LOADING FROM AUTOCODER TAPE? 8  0216  B 700 708 0 GEN      1   700     708
116               RTW   1,BEGIN1             READ THE BLOCK                8  0224  L %U1 872 R GEN      1   %U1     872
117               BER   )6M001               Q: TAPE ERROR?                5  0232  B 728 L     GEN      1   728
118               CS    LOADNX,)9R001        ENTER THE BLOCK               7  0237  / 700 254   GEN      2   700     254
119         )9J001 DCW   @LOADER@          PHASE ID                       6  0249              GEN      2
120               DC    #1                                               1  0250              GEN      2
121               DC    @1.1@          PHASE NUMBER                      3  0253              GEN      2
122         )9R001 DCW   @}@                                              1  0254              GEN      2
123               XFR   PHAS1                                                   B 201               2   201
124         *
125         * READ AND PROCESS THE PARAMETER CARD.
126         *
127         * READ AND STORE THE SOURCE PROGRAM, IN REVERSE ORDER, STARTING
128         * AT THE TOP OF CORE, WITH BLANKS REMOVED EXCEPT WITHIN
129         * HOLLERITH FIELDS IN FORMAT STATEMENTS.  EACH STATEMENT BEGINS
130         * WITH 000.  FORMAT STATEMENTS THEN HAVE F, WHILE OTHERS HAVE R.
131         * THEN THE LABEL, IF ANY, FOLLOWED BY A COLON.  THE END OF EACH
132         * STATEMENT IS MARKED BY A GROUP MARK WITH A WORD MARK.  AFTER
133         * THE LAST CARD, A STOP STATEMENT IS INSERTED.
134         *
135     89  X1    EQU   089                                                 0089
136     94  X2    EQU   094                                                 0094
137     99  X3    EQU   099                                                 0099
138         *
139         * ADDRESSES IN PHASE 0
140         *
141         NSTMTS EQU   183  NUMBER OF STATEMENTS, INCLUDING GENERATED STOP  0183
142         *
143               EXT00   SNAPSH, LOADNX, CDOVLY                                               MACRO
144         SNAPSH EQU   333                                                  0333              GEN
```

```
SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR
145         PHASLD EQU   381                                                     0381             GEN
146         SNAPEX EQU   564                                                     0564             GEN
147         LOADNX EQU   700   CARD OVERLAY UNLESS NOP                          0700             GEN
148         CDOVLY EQU   700   1 IF LOADING FROM CARDS, N IF FROM TAPE          0700             GEN
149         TPREAD EQU   704   LOAD OVERLAY FROM TAPE                           0704             GEN
150         TPERR  EQU   728                                                     0728             GEN
151         *
152         * STORAGE FOR PARAMETER CARD IS IN PHASE 0
153         *
154    685  PWORD  EQU   685     THE WORD PARAM                                  0685
155    688  TOPCOR EQU   688     TOP CORE ADDRESS FROM PARAM CARD                0688
156    690  IMOD   EQU   690     INTEGER MODULUS -- NUMBER OF DIGITS             0690
157    692  MANTIS EQU   692     FLOATING POINT MANTISSA DIGITS                  0692
158    693  CONDNS EQU   693     P FOR CONDENSED DECK                            0693
159    694  SNAPSW EQU   694     S FOR SNAPSHOT                                  0694
160    695  C1410  EQU   695     T IF RUN ON 1410 IN 1401 COMPATIBILITY MODE     0695
161    696  FMTSW  EQU   696     X FOR NO FORMAT, L FOR LIMITED FORMAT           0696
162         *                      BLANK FOR ORDINARY, A FOR A CONVERSION
163    699  PARAM  EQU   699     PARAMETER CARD IS STORED HERE                   0699
164         *
165         * READ AND CHECK PARAMETER CARD
166         *
167               ORG   872        FOUR LESS THAN MOKOTOFF V3M0 LINE 218              0872
168         BEGIN1 CS    80                                                 4  0872  / 080              3   080
169               SW    1                                                  4  0876  , 001              3   001
170               SW    81,84                                              7  0880  , 081 084          3   081     084
171    874        SW    GM          NO LONGER DONE IN PHASE 0              4  0887  , N29              3  2529
172    876        R                 READ PARAMETER CARD                    1  0891  1                  3
173    877        LCA   19,PARAM    SAVE IT                                7  0892  L 019 699          3   019     699
174    884        C     PARAM-14,KPARAM  IS IT A PARAMETER CARD?           7  0899  C 685 N54          3   685    2554
175    891        BU    NOPARM      NO, ANNOUNCE ERROR                     5  0906  B L22 /            4  2322
176    896        SW    73          SET WORD MARKS FOR                     4  0911  , 073              4   073
177    900        SW    6,7           FORTRAN MARGINS                      7  0915  , 006 007          4   006     007
178    907        SW    TOPCOR-2                                           4  0922  , 686              4   686
179    911        MCW   80,PWORD                                           7  0926  M 080 685          4   080     685
180         *
181         * DETERMINE THIS MACHINE'S CORE SIZE, COMPARE IT TO
182         * SIZE ON PARAMETER CARD
183         *
184    918        CS    0-0                                                4  0933  / 000              4   000
185    922        SBR   CORSIZ                                             4  0937  H N57              4  2557
186    926        MCW   TOPCOR,TOCONV                                      7  0941  M 688 N60          5   688    2560
187    933        B     ADCONV      COVERT TOPCOR TO FIVE DIGITS           4  0948  B Y91              5  1891
188    937        MCW   CONVTD,TOP5                                        7  0952  M N65 O53          5  2565    2653
189    944        MCW   CORSIZ,TOCONV                                      7  0959  M N57 N60          5  2557    2560
190    951        B     ADCONV      CONVERT CORSIZ TO FIVE DIGITS          4  0966  B Y91              5  1891
191    955        MCW   CONVTD,COR5                                        7  0970  M N65 O48          5  2565    2648
192    962        A     KP1,TOP5    TOP ADDR + 1 = SIZE                    7  0977  A N66 O53          6  2566    2653
193    969        A     KP1,COR5    COR ADDR + 1 = SIZE                    7  0984  A N66 O48          6  2566    2648
194    976        CS    332                                                4  0991  / 332              6   332
```

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

195    980          CS                                                       1  0995  /                    6
196    981          CC    1                                                  2  0996  F 1                  6
197    983          CS    332                                                4  0998  / 332                6   332
198    987          CS                                                       1  1002  /                    6
199    988          MCW   STMSG,228  START FORTRAN COMPILATION MSG           7  1003  M N94 228            7  2594     228
200    995          W                                                        1  1010  2                    7
201    996          CC    J                                                  2  1011  F J                  7
202    998          MCW   TOP5,231                                           7  1013  M O53 231            7  2653     231
203  1 005          MCW   SPSIZE     SPECIFIED SIZE                          4  1020  M O20                7  2620
204  1 009          W                                                        1  1024  2                    7
205  1 010          CS    235                                                4  1025  / 235                7   235
206  1 014          MCW   COR5,228                                           7  1029  M O48 228            8  2648     228
207  1 021          MCW   ACTSIZ     ACTUAL SIZE                             4  1036  M O43                8  2643
208  1 025          BCE   BIGNUF,C1410,T  COMPILING FOR 1410 COMPATIBILITY?  8  1040  B /11 695 T          8  1111     695
209  1 033          W                                                        1  1048  2                    8
210  1 034          C     COR5,TOP5                                          7  1049  C O48 O53            8  2648    2653
211  1 041          BH    PSGTM       PRINT SPEC SIZE GT MACH SIZE           5  1056  B |92 U              8  1092
212  1 046          C     TOP5,K3900  COMPARE TOP TO 3900                    7  1061  C O53 O58            8  2653    2658
213  1 053          BL    BIGNUF                                             5  1068  B /11 T              9  1111
214  1 058          CC    J                                                  2  1073  F J                  9
215  1 060          CS    332                                                4  1075  / 332                9   332
216  1 064          CS                                                       1  1079  /                    9
217  1 065          MCW   SIZERR,218  MACHINE SIZE ERROR                     7  1080  M O76 218            9  2676     218
218  1 072          W                                                        1  1087  2                    9
219  1 073          B     USEACT                                             4  1088  B /04                9  1104
220  1 077  PSGTM   MCW   SGTM,267  SPEC. SIZE GT MACH. SIZE MSG             7  1092  M P22 267           10  2722     267
221  1 084          MCW   SGTM2     REST OF THE MESSAGE                      4  1099  M P43               10  2743
222  1 088          W                                                        1  1103  2                   10
223  1 089  USEACT  MCW   CORSIZ,TOPCOR  USE ACTUAL SIZE                     7  1104  M N57 688           10  2557     688
224  1 096  BIGNUF  MCW   TOPCOR,CLEARD&3                                    7  1111  M 688 /21           10   688    1121
225          *
226          * CLEAR FROM TOP OF THIS MACHINE'S MEMORY DOWN TO DOWNTO
227          *
228  1 103  CLEARD  CS    0-0                                                4  1118  / 000               10   000
229  1 107          SBR   CLEARD&3                                           4  1122  H /21               10  1121
230  1 111          C     CLEARD&3,DOWNTO                                    7  1126  C /21 P46           11  1121    2746
231  1 118          BU    CLEARD                                             5  1133  B /18 /             11  1118
```

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

232             JOB   FORTRAN COMPILER -- PHASE 2 -- READ THE PROGRAM
233         *
234         * READ THE PROGRAM INTO CORE.
235         *
236  1 123         R                                                      1  1138  1                 11
237  1 124         MZ    *-6,AZONE  SET A ZONE AFTER CARD STORAGE AREA    7  1139  Y /39 N01          11  1139    2501
238  1 131         MZ    *-6,INTRST&7   SET A ZONE IN BCE D-MODIFIER      7  1146  Y /46 X22          11  1146    1722
239  1 138         MZ    *-6,BLNKOK&7     ,,                             7  1153  Y /53 Z95          11  1153    1995
240  1 145         MZ    *-6,INTCHR-1   ADD A ZONE TO INTERESTING CHARS    7  1160  Y /60 L85          12  1160    2385
241  1 152         MCW   PREFIX,CARD1-1  SET DEFAULT PREFIX               7  1167  M N33 M28          12  2533    2428
242  1 159         MCW   TOPCOR,*&4                                       7  1174  M 688 /84          12   688    1184
243  1 166         CW    0-0                                              4  1181  ) 000              12   000
244  1 170         SBR   MVCHAR&6                                         4  1185  H T85              12  1385
245         *
246         * PROCESS NEXT CARD
247         *
248  1 174  RDLOOP BW    MOVECD,FLAG                                      8  1189  V S26 Q28 1        12  1226    2828
249  1 182         BCE   DONE,1,:                                         8  1197  B !85 001 :        13  2085     001
250         *
251         * NO SYSTEM AFTER END CARD
252         *
253  1 190  NOSYS  CC    1                                                2  1205  F 1                13
254  1 192         CS    332                                              4  1207  / 332              13   332
255  1 196         CS                                                     1  1211  /                  13
256  1 197         MCW   MSG1,270                                         7  1212  M P87 270          13  2787     270
257  1 204         W                                                      1  1219  2                  13
258  1 205         CC    1                                                2  1220  F 1                13
259  1 207  HALT1  H     HALT1                                            4  1222  . S22              14  1222
260         *
261         * MOVE CARD TO SAVE AREA
262         *
263  1 211  MOVECD MCW   72,CARD72  MOVE CARD TO SAVE AREA                7  1226  M 072 N00          14   072    2500
264  1 218         MCW                                                    1  1233  M                  14
265  1 219         MCW                                                    1  1234  M                  14
266  1 220         BCE   DONE,CARD1,:                                     8  1235  B !85 M29 :        14  2085    2429
267  1 228  C12T   BIN   PRTHDG,  UNCONDITIONAL AT FIRST, BECOMES BCV     5  1243  B K65              14  2265
268  1 233  AFTHDG CS    300                                              4  1248  / 300              14   300
269  1 237         CS                                                     1  1252  /                  15
270  1 238         MCW   72,283   MOVE CARD TO PRINT AREA                 7  1253  M 072 283          15   072     283
271  1 245         MCW   6,215                                            7  1260  M 006 215          15   006     215
272  1 252         BCE   LSTCMT,CARD1,C    PRINT NOW IF COMMENT           8  1267  B L56 M29 C        15  2356    2429
273  1 260  CRD1SW B     NOTCNT  BECOMES NOP AFTER FIRST CARD             4  1275  B V61              15  1561
274  1 264         BCE   NOTCNT,CARD6,0                                   8  1279  B V61 M34 0        15  1561    2434
275  1 272         BCE   NOTCNT,CARD6,                                    8  1287  B V61 M34          16  1561    2434
276         *
277         * CONTINUATION CARD
278         *
279  1 280         A     KP1,CNTCNT        BUMP CONTINUATION COUNT        7  1295  A N66 Q24          16  2566    2824
280  1 287         BCE   CNTOK,CNTCNT-1,0  NINE OR FEWER?                 8  1302  B T17 Q23 0        16  1317    2823
281  1 295         MCW   CNTMSG,300        PUT ERROR MSG IN PRINT AREA    7  1310  M Q02 300          16  2802     300
```

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

282  1 302  CNTOK  W               LIST THE CARD                          1  1317  2                  16
283  1 303         MCW   CARD7A,SVCHAR&3   SET SAVE CHAR ADDR TO COL 7    7  1318  M N06 T28          16  2506    1328
284         *
285         * PROCESS THE CARD (NOTCNT COMES BACK HERE)
286         *
287  1 310  SVCHAR MCW   0-0,CHAR          SAVE A CHARACTER               7  1325  M 000 Q31          17   000    2831
288  1 317         SW    SVCHAR&1                                        4  1332  , T26              17  1326
289  1 321         A     K1,SVCHAR&3       BUMP ADDR OF CHAR TO SAVE     7  1336  A N10 T28          17  2510    1328
290  1 328         CW    SVCHAR&1                                        4  1343  ) T26              17  1326
291  1 332  CRD2SW NOP   BLNKOK           BRANCH IF COPYING EVERYTHING   4  1347  N Z88              17  1988
292  1 336         BCE   SVCHAR,CHAR,      SKIP BLANKS                   8  1351  B T25 Q31          17  1325    2831
293  1 344         MCW   CHAR,*&8                                        7  1359  M Q31 T73          18  2831    1373
294  1 351         BCE   INTRST,INTCHR,0                                 8  1366  B X15 L86 0        18  1715    2386
295               CHAIN 5                                                                 MACRO
296               BCE                                                   1  1374  B                  GEN     18
297               BCE                                                   1  1375  B                  GEN     18
298               BCE                                                   1  1376  B                  GEN     18
299               BCE                                                   1  1377  B                  GEN     18
300               BCE                                                   1  1378  B                  GEN     18
301  1 364  MVCHAR MCW   CHAR,0                                          7  1379  M Q31 000          19  2831     000
302  1 371         SBR   MVCHAR&6                                       4  1386  H T85              19  1385
303  1 375  BUMPNS A     KP1,NCHAR        BUMP CHARACTER COUNTER        7  1390  A N66 Q07          19  2566    2807
304  1 382         C     MVCHAR&6,BOTCOR  CORE FULL OF SOURCE CODE?     7  1397  C T85 Q10          19  1385    2810
305  1 389         BE    BIGSRC                                          5  1404  B K31 S            19  2231
306  1 394  CRD3SW BCE   HOLLER,CHAR,H                                   8  1409  B X66 Q31 H        19  1766    2831
307  1 402  CRD4SW NOP   BRANCH,CRD3SW                                   7  1417  N Q11 U09          20  2811    1409
308         *
309  1 409  TEST7  C     SVCHAR&3,CARD7A  AT COLUMN 7?                  7  1424  C T28 N06          20  1328    2506
310  1 416  CRD5SW BU    SVCHAR                                          5  1431  B T25 /            20  1325
311  1 421         SW    MVCHAR&4                                        4  1436  , T83              20  1383
312  1 425  CRD6SW MCW   MVCHAR&6,X2                                    7  1440  M T85 094          20  1385     094
313  1 432         CW    MVCHAR&4                                        4  1447  ) T83              20  1383
314  1 436         MCW   NOP2,CRD6SW                                    7  1451  M N28 U40          21  2528    1440
315  1 443         MCW   NOP2,CRD5SW                                    7  1458  M N28 U31          21  2528    1431
316  1 450         A     K10,COLCNT                                      7  1465  A N36 N03          21  2536    2503
317  1 457         BCE   COL3,COLCNT-1,5    THREE COLUMNS DONE?          8  1472  B W84 N02 5        21  1684    2502
318  1 465         SW    FLAG                                            4  1480  , Q28              21  2828
319  1 469         BWZ   SVCHAR,COLCNT-1,2  MORE THAN SEVEN COLUMNS DONE? 8  1484  V T25 N02 2        22  1325    2502
320  1 477         MCW   BRNCH2,CRD5SW                                   7  1492  M N11 U31          22  2511    1431
321  1 484         MCW   0&X2,WORK7                                      7  1499  M 0!0 N20          22   000+2  2520
322  1 491         C     KFMT,WORK7  FORMAT% ?                           7  1506  C N27 N20          22  2527    2520
323  1 498         BU    SVCHAR                                          5  1513  B T25 /            22  1325
324         *
325         * PROCESS A FORMAT STATEMENT
326         *
327  1 503         MCW   BRANCH,CRD3SW                                   7  1518  M Q11 U09          23  2811    1409
328  1 510         MCW   0&X3,WORK6                                      7  1525  M 0?0 Q17          23   000+3  2817
329  1 517         MCW   KF,WORK6-3                                     7  1532  M Q18 Q14          23  2818    2814
330  1 524         MCW   WORK6,0&X3                                     7  1539  M Q17 0?0          23  2817     000+3
331  1 531         B     SVCHAR                                          4  1546  B T25              23  1325
```

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

332         *
333         * TAPE BLOCK IS TOO BIG FOR CHM TAU EMULATOR
334         *
335         END1    DCW   @}@                                                1  1550              GMARK   23
336                 XFR   LOADNX         LOAD THIS                                    B 700              23   700
337         PART2   LDPH  ,SLASH,BEGIN1,,,2.2  LOAD PART2 AND START IN PART 1                      MACRO
            * PHAZ   LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]                     GEN
            *        XFR  PHASZ     PROHIBITED IN A MACRO                                         GEN
            *                                                                                     GEN
            * LOAD A BLOCK                                                                       GEN
            *                                                                                     GEN
338         )6K003 EQU   700  LOAD NEXT PHASE                                 0700              GEN
339         )6L003 EQU   704  TAPE READ INSTRUCTION                           0704              GEN
340         )6M003 EQU   728  TAPE ERROR HANDLER                              0728              GEN
            *                                                                                     GEN
341                 ORG   201                                                        0201
342         PART2   EQU   *&1                                                 0201              GEN
343                 BCE   )6K003,)6K003,1      Q: LOADING FROM CARDS?          8  0201  B 700 700 1 GEN     24   700     700
344                 BCE   )6K003,)6L003&4,0    Q: LOADING FROM AUTOCODER TAPE? 8  0209  B 700 708 0 GEN     24   700     708
345                 RTW   1,SLASH             READ THE BLOCK                  8  0217  L %U1 V50 R GEN     24   %U1    1550
346                 BER   )6M003               Q: TAPE ERROR?                  5  0225  B 728 L     GEN     24   728
347                 CS    BEGIN1,)9R003        ENTER THE BLOCK                 7  0230  / 872 241   GEN     24   872     241
348                 DC    #1                                                   1  0237              GEN     24
349                 DC    @2.2@          PHASE NUMBER                          3  0240              GEN     25
350         )9R003  DCW   @}@                                                  1  0241              GEN     25
351                 XFR   PART2                                                      B 201              25   201
352                 ORG   END1                                                       1550
353         *
354   1 535 SLASH   MCW   KAT,CHAR   CONVERT SLASH TO AT-SIGN                   7  1550  M Q19 Q31          26  2819    2831
355   1 542         B     MVCHAR                                               4  1557  B T79              26  1379
356         *
357         * NOT A CONTINUATION CARD
358         *
359   1 546 NOTCNT  MCW   NOP,CRD1SW                                           7  1561  M N49 S75          26  2549    1275
360   1 553         A     KP1,NSTMT                                            7  1568  A N66 Q22          26  2566    2822
361   1 560         MCW   NOP,CRD3SW                                           7  1575  M N49 U09          26  2549    1409
362   1 567         MCW   NOP,CRD4SW                                           7  1582  M N49 U17          26  2549    1417
363   1 574         MCW   5,211      MOVE LABEL TO PRINT AREA                  7  1589  M 005 211          27   005     211
364   1 581         S     CNTCNT     CLEAR CONTINUATION COUNT                  4  1596  S Q24              27  2824
365   1 585         MCW   NOP,CRD2SW                                          7  1600  M N49 T47          27  2549    1347
366   1 592         MCS   NSTMT,203  MOVE STATEMENT COUNT TO PRINT AREA        7  1607  Z Q22 203          27  2822     203
367   1 599         W                                                          1  1614  2                  27
368   1 600         SW    MVCHAR&4                                             4  1615  , T83              27  1383
369   1 604         MCW   MVCHAR&6,MVCHR2&6                                   7  1619  M T85 W43          27  1385    1643
370   1 611         CW    MVCHAR&4                                             4  1626  ) T83              28  1383
371   1 615         MCW   MOVE,CRD6SW                                         7  1630  M N37 U40          28  2537    1440
372   1 622 MVCHR2  LCA   GM,0                                                 7  1637  L N29 000          28  2529     000
373   1 629         SBR   X3         SAVE ADDRESS OF FIRST CHAR STORED        4  1644  H 099              28   099
374   1 633         SBR   MVCHAR&6                                            4  1648  H T85              28  1385
375   1 637         MCW   COLON,CARD6  COLON AFTER LABEL, IF ANY              7  1652  M N34 M34          28  2534    2434
```

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

376  1 644         MCW   BRNCH2,CRD5SW                                        7  1659  M N11 U31           29  2511    1431
377  1 651         MCW   K20,COLCNT   INITIALIZE COLUMN COUNTER               7  1666  M N13 N03           29  2513    2503
378  1 658         MCW   SAVE2A,SVCHAR&3                                     7  1673  M N09 T28           29  2509    1328
379  1 665         B     SVCHAR                                              4  1680  B T25               29  1325
380         *
381  1 669  COL3   C     0&X2,KEND  END CARD?                                 7  1684  C 0!0 Q27           29   000+2  2827
382  1 676         BU    SVCHAR                                              5  1691  B T25 /             29  1325
383  1 681         CW    FLAG                                                4  1696  ) Q28               30  2828
384  1 685         B     SVCHAR                                              4  1700  B T25               30  1325
385         *
386  1 689  AT     MCW   KMINUS,CHAR  CONVERT AT SIGN TO MINUS               7  1704  M Q29 Q31           30  2829    2831
387  1 696         B     MVCHAR                                              4  1711  B T79               30  1379
388         *
389         * SAW AN INTERESTING CHARACTER
390         *
391  1 700  INTRST BCE   TESTLC,CHAR,    TEST FOR A ZONE                     8  1715  B L71 Q31           30  2371    2831
392  1 708         BCE   TESTLC,CHAR,|   RECORD MARK                         8  1723  B L71 Q31 |         30  2371    2831
393  1 716         BCE   SLASH,CHAR,/                                        8  1731  B V50 Q31 /         31  1550    2831
394  1 724         BCE   AT,CHAR,@                                           8  1739  B X04 Q31 @         31  1704    2831
395  1 732         MCW   KSTAR,300                                           7  1747  M Q30 300           31  2830     300
396  1 739         MCW   PROCD                                               4  1754  M N48               31  2548
397  1 743         MCW   CHAR                                                4  1758  M Q31               31  2831
398  1 747         B     MVCHAR                                              4  1762  B T79               31  1379
399         *
400         * CHARACTER IS H, PROBABLY HOLLERITH
401         *
402  1 751  HOLLER MCW   MVCHAR&6,X1                                         7  1766  M T85 089           32  1385     089
403  1 758         MCW   NOP,CRD3SW                                          7  1773  M N49 U09           32  2549    1409
404  1 765         MCW   NOP,CRD4SW                                          7  1780  M N49 U17           32  2549    1417
405  1 772         MCW   BRANCH,CRD2SW                                       7  1787  M Q11 T47           32  2811    1347
406  1 779         MCW   4&X1,HCOUNT  REMEMBER, SOURCE IS STORED BACKWARD     7  1794  M 0|4 Q34           32   004+1  2834
407  1 786         BCE   AT2,HCOUNT-1,@                                      8  1801  B Y17 Q33 @         33  1817    2833
408  1 794         BWZ   NZHM1,HCOUNT-1,2                                    8  1809  V Y32 Q33 2         33  1832    2833
409  1 802  AT2    MCW   HCOUNT-2,HCOUNT  ONE DIGIT OF HOLLERITH COIUNT      7  1817  M Q32 Q34           33  2832    2834
410  1 809         MCW   KZ2                                                 4  1824  M Q36               33  2836
411  1 813         B     TEST7                                               4  1828  B U24               33  1424
412         *
413         * NO ZONE AT HCOUNT-1
414         *
415  1 817  NZHM1  BCE   AT3,HCOUNT,@                                        8  1832  B Y48 Q34 @         33  1848    2834
416  1 825         BWZ   NZH,HCOUNT,2                                        8  1840  V Y66 Q34 2         34  1866    2834
417  1 833  AT3    MCW   HCOUNT-2,HCOUNT                                     7  1848  M Q32 Q34           34  2832    2834
418  1 840         MCW   KZ1,HCOUNT-2                                       7  1855  M Q37 Q32           34  2837    2832
419  1 847         B     TEST7                                               4  1862  B U24               34  1424
420         *
421         * NO ZONE AT HCOUNT.  REVERSE THE DIGITS
422         *
423  1 851  NZH    MCW   HCOUNT,WORKH1                                       7  1866  M Q34 Q38           34  2834    2838
424  1 858         MCW   HCOUNT-2,HCOUNT                                     7  1873  M Q32 Q34           35  2832    2834
425  1 865         MCW   WORKH1,HCOUNT-2                                     7  1880  M Q38 Q32           35  2838    2832
```

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

426  1 872         B     TEST7                                             4  1887  B U24              35  1424
427          *
428          * CONVERT ADDRESS TO FIVE DIGITS
429          *
430                SFX   C
431  1 876  ADCONV SBR   EXIT&3                                        C   4  1891  H Z87              35  1987
432  1 880         S     CNVW2A                                        C   4  1895  S Q40              35  2840
433  1 884         S     CNVW2B                                        C   4  1899  S Q42              35  2842
434  1 888         MZ    TOCONV,CNVW2A-1                               C   7  1903  Y N60 Q39           35  2560    2839
435  1 895         MZ    TOCONV-2,CNVW2B-1                             C   7  1910  Y N58 Q41           36  2558    2841
436  1 902  LOOP1  BWZ   LOOP2,CNVW2B-1,2                             C   8  1917  V Z36 Q41 2         36  1936    2841
437  1 910         A     CNVKA0,CNVW2B                                 C   7  1925  A Q44 Q42          36  2844    2842
438  1 917         B     LOOP1                                         C   4  1932  B Z17              36  1917
439  1 921  LOOP2  BWZ   LP2X,CNVW2A-1,2                             C   8  1936  V Z55 Q39 2         36  1955    2839
440  1 929         A     CNVKQ4,CNVW2A                                 C   7  1944  A Q46 Q40          37  2846    2840
441  1 936         B     LOOP2                                         C   4  1951  B Z36              37  1936
442  1 940  LP2X   A     CNVW2B-1,CNVW2A                               C   7  1955  A Q41 Q40          37  2841    2840
443  1 947         MCW   TOCONV,CONVTD                                 C   7  1962  M N60 N65          37  2560    2565
444  1 954         MCW   CNVW2A                                       C   4  1969  M Q40              37  2840
445  1 958         ZA    CONVTD                                        C   4  1973  ? N65              37  2565
446  1 962         MZ    *-4,CONVTD  CLEAR ZONE IN OUTPUT              C   7  1977  Y Z79 N65          38  1979    2565
447  1 969  EXIT   B     0-0                                           C   4  1984  B 000              38   000
448                SFX
449          *
450  1 973  BLNKOK BCE   TESTLC,CHAR,   TEST FOR A ZONE                  8  1988  B L71 Q31          38  2371    2831
451  1 981         S     KP1,HCOUNT                                        7  1996  S N66 Q34          38  2566    2834
452  1 988         C     HCOUNT,PZE  HOLLERITH COUNT DOWN TO ZERO?         7  2003  C Q34 Q49          38  2834    2849
453  1 995         BU    MVCHAR      NOPE, JUST MOVE THE CHARACTER         5  2010  B T79 /            38  1379
454  2 000         MCW   MOVE2,CRD4SW                                     7  2015  M Q50 U17          39  2850    1417
455  2 007         MCW   NOP2,CRD2SW                                      7  2022  M N28 T47          39  2528    1347
456  2 014         MCW   SVCHAR&3,X1                                      7  2029  M T28 089          39  1328     089
457  2 021         C     0&X1,COMMA                                       7  2036  C 0|0 Q51          39   000+1  2851
458  2 028         BE    MVCHAR                                           5  2043  B T79 S            39  1379
459  2 033         MCW   MVCHAR&6,*&7                                    7  2048  M T85 !61          40  1385    2061
460  2 040         MCW   0,0                                            7  2055  M 000 000          40   000     000
461  2 047         MCW   COMMA                                          4  2062  M Q51              40  2851
462  2 051         SBR   MVCHAR&6                                       4  2066  H T85              40  1385
463  2 055         A     KP1,NCHAR                                        7  2070  A N66 Q07          40  2566    2807
464  2 062         B     BUMPNS                                           4  2077  B T90              40  1390
465  2 066         B     MVCHAR                                           4  2081  B T79              40  1379
466          *
467          * FINISHED READING THE SOURCE DECK
468          *
469  2 070  DONE   MCW   MVCHAR&6,X1                                     7  2085  M T85 089          41  1385     089
470  2 077         LCA   GM,0&X1                                        7  2092  L N29 0|0          41  2529     000+1
471  2 084         SBR   X1                                             4  2099  H 089              41   089
472  2 088         CC    1                                              2  2103  F 1                41
473  2 090         CS    332                                            4  2105  / 332              41   332
474  2 094         CS                                                   1  2109  /                  41
475  2 095         MCS   NCHAR,205                                      7  2110  Z Q07 205          41  2807     205
```

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

476  2 102          MCW   MSGCHR,222                                   7  2117  M Q67 222           42  2867     222
477  2 109          W                                                  1  2124  2                   42
478  2 110          CC    J                                            2  2125  F J                 42
479  2 112          MCW   NSTMT,NSTMTS                                 7  2127  M Q22 183           42  2822     183
480  2 119          LCA   STOP,0&X1                                    7  2134  L Q78 0|0           42  2878     000+1
481  2 126          SBR   X1                                           4  2141  H 089               42   089
482  2 130          SW    2&X1                                         4  2145  , 0|2               42   002+1
483  2 134          A     KP1,NSTMTS                                   7  2149  A N66 183           43  2566     183
484  2 141          BCE   NOTBIG,3000,                                 8  2156  B J68 ?00           43  2168    3000
485  2 149          B     BIGSRC                                       4  2164  B K31               43  2231
486  2 153  NOTBIG  CS    80         GET                               4  2168  / 080               43   080
487  2 183          SW    1,40         READY                          7  2172  , 001 040           43   001     040
488  2 190          SW    47,54          FOR                          7  2179  , 047 054           43   047     054
489  2 197          SW    61,68            CARD                       7  2186  , 061 068           44   061     068
490  2 204          SW    72                 OVERLAY                  4  2193  , 072               44   072
491  2 167          BSS   SNAPSH,C                                    5  2197  B 333 C             44   333
492  2 208          BCE   CARDS,LOADNX,1  Q: RUNNING FROM CARDS?      8  2202  B K14 700 1         44  2214     700
493                 B     LOADNX          NO                         4  2210  B 700               44   700
494  2 216  CARDS   R                                                  1  2214  1                   44
495  2 217          C     7,SCANR2                                     7  2215  C 007 Q92           44   007    2892
496  2 224          BE    LOADNX                                       5  2222  B 700 S             45   700
497  2 229          B     NOSYS                                        4  2227  B S05               45  1205
498          *
499          * SOURCE PROGRAM TOO BIG
500          *
501  2 233  BIGSRC  CS    332                                          4  2231  / 332               45   332
502  2 237          CS                                                 1  2235  /                   45
503  2 238          CC    1                                            2  2236  F 1                 45
504  2 240          MCW   MSG2,270                                     7  2238  M R28 270           45  2928     270
505  2 247          W                                                  1  2245  2                   45
506  2 248          CC    1                                            2  2246  F 1                 46
507  2 250          BCE   HALT2,LOADNX,1  RUNNING FROM CARDS?         8  2248  B K61 700 1         46  2261     700
508  2 258          RWD   1             NO, REWIND THE TAPE          5  2256  U %U1 R             46   %U1
509  2 263  HALT2   H     HALT2                                        4  2261  . K61               46  2261
510          *
511          * PRINT LISTING PAGE HEADING
512          *
513  2 267  PRTHDG  CC    1                                            2  2265  F 1                 46
514  2 269          MCW   KAT,C12T&4  CHANGE TO BCV                    7  2267  M Q19 S47           46  2819    1247
515  2 276          CS    299                                          4  2274  / 299               46   299
516  2 280          A     K1,PAGNUM                                    7  2278  A N10 R31           47  2510    2931
517  2 287          MCS   PAGNUM,299                                   7  2285  Z R31 299           47  2931     299
518  2 294          MCW   KPAGE,295                                    7  2292  M R39 295           47  2939     295
519  2 301          MCW   80                                           4  2299  M 080               47   080
520  2 305          W                                                  1  2303  2                   47
521  2 306          CS    299                                          4  2304  / 299               47   299
522  2 310          MCW   PAGHDG,234                                   7  2308  M M21 234           47  2421     234
523  2 317          W                                                  1  2315  2                   48
524  2 318          CC    J                                            2  2316  F J                 48
525  2 320          B     AFTHDG                                       4  2318  B S48               48  1248
```

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

526         *
527         * NO PARAMETER CARD
528         *
529  2 324  NOPARM CC    1                                                2  2322  F 1               48
530  2 326         CS    332                                              4  2324  / 332             48   332
531  2 330         CS                                                     1  2328  /                 48
532  2 331         MCW   MSG3,270                                         7  2329  M R68 270         48  2968     270
533  2 338         W                                                      1  2336  2                 49
534  2 339         CC    1                                                2  2337  F 1               49
535  2 341         BCE   HALT3,LOADNX,1  RUNNING FROM CARDS?             8  2339  B L52 700 1       49  2352     700
536  2 349         RWD   1             NO, REWIND THE TAPE                5  2347  U %U1 R           49   %U1
537  2 354  HALT3  H     HALT3                                            4  2352  . L52             49  2352
538         *
539         * LIST COMMENT CARD
540         *
541  2 358  LSTCMT MCW   FINAL,203                                        7  2356  M R71 203         49  2971     203
542  2 365         MCW   5,211                                            7  2363  M 005 211         49   005     211
543  2 372         W                                                      1  2370  2                 50
544  2 373  TESTLC BLC   DONE                                            5  2371  B !85 A           50  2085
545  2 378         R                                                      1  2376  1                 50
546  2 379         B     RDLOOP                                           4  2377  B /89             50  1189
547         *
548  2 388  INTCHR DCW   @$@/|  @  INTERESTING CHARACTERS                6  2386                    50
549  2 423  PAGHDG DCW   @ SEQ   STMNT      FORTRAN STATEMENT@           35  2421                    51
550         *
551         * CARD SAVE AREA
552         *
553                ORG   2424  SAME AS MOKOTOFF V3M0 LINE 531                    2424
554                DA    1X78                                                2424  2501              51
555         SAVE2         2                                                   2425            SBFLD
556         CARD1         6                                                   2429            SBFLD
557         CARD6         11                                                  2434            SBFLD
558         CARD7         12                                                  2435            SBFLD
559         CARD72        77                                                  2500            SBFLD
560         AZONE         78                                                  2501            SBFLD
561         *
562         * CONSTANTS AND WORK AREAS
563         *
564  2 503  COLCNT DCW   #2                                                 2  2503                    52
565  2 506  CARD7A DSA   CARD7  ADDRESS OF COLUMN 7 IN SAVE AREA           3  2506  M35               52  2435
566  2 509  SAVE2A DSA   SAVE2                                             3  2509  M25               52  2425
567  2 510  K1     DCW   1                                                1  2510                    52
568  2 511  BRNCH2 B                                                       1  2511  B                 52
569  2 513  K20    DC    20                                               2  2513                    52
570  2 520  WORK7  DCW   #7                                                7  2520                    52
571  2 527  KFMT   DCW   @%TAMROF@  'FORMAT%' SPELLED BACKWARD            7  2527                    52
572  2 528  NOP2   DC    @N@                                              1  2528                    52
573  2 529  GM     DC    @}@                                              1  2529            GMARK   52
574  2 533  PREFIX DCW   @000R@     DEFAULT STATEMENT PREFIX -- ARITHMETIC 4  2533                    53
575  2 534  COLON  DCW   @:@                                              1  2534                    53
```

```
SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR
576  2 536  K10     DCW   10                                                  2  2536                      53
577  2 537  MOVE    DC    @M@                                                 1  2537                      53
578  2 548  PROCD   DCW   @ PROCESSED @                                     11  2548                      53
579  2 549  NOP     NOP                                                       1  2549  N                   53
580  2 554  KPARAM  DCW   @PARAM@                                            5  2554                      53
581  2 557  CORSIZ  DCW   #3          ACTUAL MACHINE SIZE (TOP ADDR)          3  2557                      53
582  2 560  TOCONV  DCW   #3          ADDRESS TO BE CONVERTED TO FIVE DIGITS  3  2560                      54
583  2 565  CONVTD  DCW   #5          ADDRESS CONVERTED TO FIVE DIGITS        5  2565                      54
584  2 566  KP1     DCW   &1                                                  1  2566                      54
585  2 594  STMSG   DCW   @START OF FORTRAN COMPILATION@                    28  2594                      54
586  2 620  SPSIZE  DCW   @MACHINE SIZE SPECIFIED IS @                      26  2620                      55
587  2 643  ACTSIZ  DCW   @ACTUAL MACHINE SIZE IS @                         23  2643                      56
588  2 648  COR5    DCW   #5          CORSIZ AS FIVE DIGITS                   5  2648                      56
589  2 653  TOP5    DCW   #5          TOPCOR AS FIVE DIGITS                   5  2653                      56
590  2 658  K3900   DCW   03900                                               5  2658                      56
591  2 676  SIZERR  DCW   @MACHINE SIZE ERROR@                              18  2676                      57
592  2 722  SGTM    DCW   @SPECIFIED IS GREATER THAN ACTUAL MACHINE SIZE.@   46  2722                      59
593  2 743  SGTM2   DCW   @ERROR - MACHINE SIZE @                           21  2743                      59
594  2 746  DOWNTO  DSA   2999                                                3  2746  R99                 59  2999
595  2 787  MSG1    DCW   @MESSAGE 1-SYSTEM DOES NOT FOLLOW END CARD@       41  2787                      61
596  2 802  CNTMSG  DCW   @CONTINUE CD ERR@                                 15  2802                      61
597  2 807  NCHAR   DCW   #5          NUMBER OF CHARACTERS                    5  2807                      61
598  2 810  BOTCOR  DSA   3000        BOTTOM OF SPACE TO STORE PROGRAM        3  2810  ?00                 61  3000
599  2 811  BRANCH  DCW   @B@                                                 1  2811                      61
600  2 817  WORK6   DCW   #6                                                  6  2817                      62
601  2 818  KF      DCW   @F@                                                 1  2818                      62
602  2 819  KAT     DCW   @@@                                                 1  2819                      62
603  2 822  NSTMT   DCW   #3          NUMBER OF STATEMENTS                    3  2822                      62
604  2 824  CNTCNT  DCW   #2          COUNT OF CONTINUATION CARDS             2  2824                      62
605  2 827  KEND    DCW   @DNE@       END SPELLED BACKWARD                    3  2827                      62
606  2 828  FLAG    DCW   #1          WORD MARK IS A FLAG                     1  2828                      62
607  2 829  KMINUS  DCW   @-@                                                 1  2829                      63
608  2 830  KSTAR   DCW   @*@                                                 1  2830                      63
609  2 831  CHAR    DCW   #1          CHARACTER FROM INPUT                    1  2831                      63
610  2 834  HCOUNT  DCW   #3          HOLLERITH COUNT                         3  2834                      63
611  2 836  KZ2     DCW   00          TWO ZEROS                               2  2836                      63
612  2 837  KZ1     DCW   0                                                   1  2837                      63
613  2 838  WORKH1  DCW   #1          WORK SPACE FOR HOLLERITH COUNT          1  2838                      63
614  2 840  CNVW2A  DCW   #2          WORK SPACE FOR ADDRESS CONVERSION       2  2840                      64
615  2 842  CNVW2B  DCW   #2          WORK SPACE FOR ADDRESS CONVERSION       2  2842                      64
616  2 844  CNVKA0  DCW   @A0@        CONSTANT FOR ADDRESS CONVERSION         2  2844                      64
617  2 846  CNVKQ4  DCW   @?4@        CONSTANT FOR ADDRESS CONVERSION         2  2846                      64
618  2 849  PZE     DCW   &000        PLUS ZERO                               3  2849                      64
619  2 850  MOVE2   MCW                                                       1  2850  M                   64
620  2 851  COMMA   DCW   @,@                                                 1  2851                      64
621  2 867  MSGCHR  DCW   @INPUT CHARACTERS@                                16  2867                      65
622  2 878  STOP    DCW   @ }POTS:R000@  STOP SPELLED BACKWARD, ETC.         11  2878                      65
623  2 885  SCANR1  DCW   @SCANNER@                                           7  2885                      65
624  2 892  SCANR2  DCW   @SCANNER@                                           7  2892                      66
625  2 928  MSG2    DCW   @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@            36  2928                      67
```

```
SEQ PG LIN  LABEL  OP    OPERANDS                                   SFX CT  LOCN  INSTRUCTION TYPE  CARD A-ADDR  B-ADDR
626  2 931  PAGNUM DCW   #3                                          3  2931                    67
627  2 939  KPAGE  DCW   @   PAGE @                                  8  2939                    68
628  2 968  MSG3   DCW   @MESSAGE 3 - NO PARAMETER CARD@            29  2968                    68
629  2 971  FINAL  DCW   #3                                          3  2971                    69
630                ORG   2999  MOKOTOFF V3M0.LST LINE 606                    2999
631 *2 999  SYSGM  DCW   @}@                                        1  2999          GMARK     70
632                XFR   BEGIN1                                             B 872               70   872
633         *
634         * SCANNER NEEDS THESE TO FIND THE END OF THE PROGRAM WHEN
635         * LOADING FROM CARDS.
636         *
637         110    DCW   @:@                                         1  0110                    71
638         110    DCW   @SCANNER@                                   7  0110                    72
639         *
640         * GENERATE THE BLOCK TO CLEAR PHASES 1 AND 2
641         *
642         CLR12  CLRA  BEGIN1,SYSGM                                                MACRO
            *      CLRA  CLRBOT,CLRTOP[,ORG,GMWMAD]                                  GEN
            *                                                                        GEN
            * CLEAR CORE AFTER A PHASE USING THE CLRTOP ADDRESS                      GEN
            *                                                                        GEN
643                ORG   201                                                 0201
            *                                                                      GEN
            * CLEAR DOWN TO CLRBOT & X00 THE EASY WAY                            GEN
            *                                                                    GEN
644         CLR12  EQU   *&1                                                0201  GEN
645         )0J004 CS    SYSGM         CLEAR FROM CLRTOP                  4  0201  / R99       GEN     73  2999
646                SBR   )0J004&3                                         4  0205  H 204       GEN     73   204
647                SBR   )0L004&6                                         4  0209  H 250       GEN     73   250
648                C     )0J004&3,)0M004   DOWN TO CLRBOT & X00?          7  0213  C 204 261   GEN     73   204     261
649                BU    )0J004                                           5  0220  B 201 /     GEN     73   201
            *                                                                      GEN
            * NOW CLEAR DOWN TO CLRBOT THE HARD WAY                              GEN
            *                                                                    GEN
650         )0K004 C     )0L004&6,)0N004                                   7  0225  C 250 264   GEN     73   250     264
651                BU    )0L004                                           5  0232  B 244 /     GEN     73   244
652                CS    LOADNX,)0Q004  LOAD THE NEXT BLOCK AT 1          7  0237  / 700 271   GEN     74   700     271
653         )0L004 LCA   )0P004,0-0     CLEAR WITH BLANK AND WORD MARK    7  0244  L 265 000   GEN     74   265     000
654                SBR   )0L004&6                                         4  0251  H 250       GEN     74   250
655                B     )0K004                                           4  0255  B 225       GEN     74   225
656         )0M004 DSA   )0R004         CLRBOT & X00 - 1                 3  0261  899         GEN     74   899
657         )0N004 DSA   BEGIN1         CLRBOT                           3  0264  872         GEN     74   872
658         )0P004 DCW   #1                                              1  0265              GEN     74
659                DC    @CLRA @     IDENTIFY IN A DECK, TAPE, OR DUMP   5  0270              GEN     74
660         )0Q004 DCW   @}@                                             1  0271              GEN     75
661                ORG   BEGIN1&X00                                                 0900
662         )0R004 EQU   *           CLRBOT & X00 - 1                        0899              GEN
663                XFR   CLR12                                                    B 201               75   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	)6J001	0110: 0	)6K001	0700: 0	)6K003	0700: 0	)6L001	0704: 0
)6L003	0704: 0	)6M001	0728: 0	)6M003	0728: 0	)9J001	0249: 0	)9R001	0254: 0	)9R003	0241: 0
ACTSIZ	2643: 0	ADCONV	1891: 0	AFTHDG	1248: 0	AT	1704: 0	AT2	1817: 0	AT3	1848: 0
AZONE	2501: 0	BEGIN1	0872: 0	BIGNUF	1111: 0	BIGSRC	2231: 0	BLNKOK	1988: 0	BOTCOR	2810: 0
BRANCH	2811: 0	BRNCH2	2511: 0	BUMPNS	1390: 0	C12T	1243: 0	C1410	0695: 0	CARD1	2429: 0
CARD6	2434: 0	CARD7	2435: 0	CARD72	2500: 0	CARD7A	2506: 0	CARDS	2214: 0	CDOVLY	0700: 0
CHAR	2831: 0	CLEARD	1118: 0	CLR12	0201: 0	CNTCNT	2824: 0	CNTMSG	2802: 0	CNTOK	1317: 0
CNVKA0	2844: 0	CNVKQ4	2846: 0	CNVW2A	2840: 0	CNVW2B	2842: 0	COL3	1684: 0	COLCNT	2503: 0
COLON	2534: 0	COMMA	2851: 0	CONDNS	0693: 0	CONVTD	2565: 0	COR5	2648: 0	CORSIZ	2557: 0
CRD1SW	1275: 0	CRD2SW	1347: 0	CRD3SW	1409: 0	CRD4SW	1417: 0	CRD5SW	1431: 0	CRD6SW	1440: 0
DONE	2085: 0	DOWNTO	2746: 0	END1	1550: 0	EXIT C	1984: 0	FINAL	2971: 0	FLAG	2828: 0
FMTSW	0696: 0	GM	2529: 0	HALT1	1222: 0	HALT2	2261: 0	HALT3	2352: 0	HCOUNT	2834: 0
HOLLER	1766: 0	IMOD	0690: 0	INTCHR	2386: 0	INTRST	1715: 0	K1	2510: 0	K10	2536: 0
K20	2513: 0	K3900	2658: 0	KAT	2819: 0	KEND	2827: 0	KF	2818: 0	KFMT	2527: 0
KMINUS	2829: 0	KP1	2566: 0	KPAGE	2939: 0	KPARAM	2554: 0	KSTAR	2830: 0	KZ1	2837: 0
KZ2	2836: 0	LOADNX	0700: 0	LOOP1C	1917: 0	LOOP2C	1936: 0	LP2X C	1955: 0	LSTCMT	2356: 0
MANTIS	0692: 0	MOVE	2537: 0	MOVE2	2850: 0	MOVECD	1226: 0	MSG1	2787: 0	MSG2	2928: 0
MSG3	2968: 0	MSGCHR	2867: 0	MVCHAR	1379: 0	MVCHR2	1637: 0	NCHAR	2807: 0	NOP	2549: 0
NOP2	2528: 0	NOPARM	2322: 0	NOSYS	1205: 0	NOTBIG	2168: 0	NOTCNT	1561: 0	NSTMT	2822: 0
NSTMTS	0183: 0	NZH	1866: 0	NZHM1	1832: 0	PAGHDG	2421: 0	PAGNUM	2931: 0	PARAM	0699: 0
PART2	0201: 0	PHAS1	0201: 0	PHASLD	0381: 0	PREFIX	2533: 0	PROCD	2548: 0	PRTHDG	2265: 0
PSGTM	1092: 0	PWORD	0685: 0	PZE	2849: 0	RDLOOP	1189: 0	SAVE2	2425: 0	SAVE2A	2509: 0
SCANR1	2885: 0	SCANR2	2892: 0	SGTM	2722: 0	SGTM2	2743: 0	SIZERR	2676: 0	SLASH	1550: 0
SNAPEX	0564: 0	SNAPSH	0333: 0	SNAPSW	0694: 0	SPSIZE	2620: 0	STMSG	2594: 0	STOP	2878: 0
SVCHAR	1325: 0	SYSGM	2999: 0	TEST7	1424: 0	TESTLC	2371: 0	TOCONV	2560: 0	TOP5	2653: 0
TOPCOR	0688: 0	TPERR	0728: 0	TPREAD	0704: 0	USEACT	1104: 0	WORK6	2817: 0	WORK7	2520: 0
WORKH1	2838: 0	X1	0089: 0	X2	0094: 0	X3	0099: 0				

UNREFERENCED SYMBOLS

CDOVLY CONDNS FMTSW IMOD MANTIS PHASLD SCANR1 SNAPEX SNAPSW TPERR TPREAD