```
CLEAR STORAGE 1     ,008015,022026,030037,044,049,053053N000000N00001026                                    1
CLEAR STORAGE 2     L068116,105106,110117B101/I9I#071029C029056B026/B001/0991,001/001117I0&                  2
BOOTSTRAP           ,008015,022029,036040,047054,061068,072/061039              ,0010011040                 3

                          1401 AUTOCODER-PASS 8 LOAD TAPE-RIGHT MAIN-VERSION 3       3782L               PAGE    1

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

 101         000    JOB   1401 AUTOCODER-PASS 8 LOAD TAPE-RIGHT MAIN-VERSION 3
 102                CTL   630 1
 103         *
 104         * EQUATES USED BY PROGRAM
 105         *
 106         INITAP EQU   %U0                                                  %U0
 107         INTAPE EQU   %U5                                                  %U5
 108         OUTAPE EQU   %U6                                                  %U6
 109         PUNCH  EQU   100                                                  0100
 110         OUTPUT EQU   PUNCH&1                                              0101
 111         IMAGE  EQU   0                                                    0000
 112         XXXX   EQU   0                                                    0000
 113         COUNT  EQU   IMAGE&7                                              0007
 114         LABADD EQU   IMAGE&61                                             0061
 115         SUPADD EQU   IMAGE&66                                             0066
 116         AOP    EQU   IMAGE&70                                             0070
 117         BOP    EQU   IMAGE&73                                             0073
 118         DMOD   EQU   IMAGE&74                                             0074
 119         TYPE   EQU   IMAGE&75                                             0075
 120         PRINT  EQU   200                                                  0200
 121         LIBRN  EQU   0                                                    0000
 122                ORG   87                                                        0087
 123         XR1    DCW   000                                             3  0089                       4
 124                DC    00                                              2  0091                       4
 125         XR2    DCW   000                                             3  0094                       4
 126                DC    00                                              2  0096                       4
 127         XR3    DCW   000                                             3  0099                       4
 128                DC    00                                              2  0101                       4
 129         *
 130         * INITIALIZATION ROUTIUNE
 131         *
 132                ORG   336                                                       0336
 133         ZONE   DCW   @2SKB@                                           4  0339                       5
 134         INITLZ RWD   OUTAPE                                           5  0340  U %U6 R              5
 135                C     OUTOPN,@2@                                      7  0345  C !00 P07            5
 136                BH    ENDJOB                                          5  0352  B !55 U              5
 137                C     OUTOPN,@7@                                      7  0357  C !00 P08            5
 138                BL    ENDJOB                                          5  0364  B !55 T              5
 139                RWD   4                                               5  0369  U %U4 R              5
 140                RWD   INTAPE                                          5  0374  U %U5 R              6
 141                CW    LTAPSW,PNH4SW                                   7  0379  ) P25 P26            6
 142                MCW   SSOP,TSTSS                                      7  0386  M !01 475            6
 143         *
 144         * TEST FOR CTL CARD
 145         *
 146         READ4  MCW   @013@,LGTCK&6                                    7  0393  M P11 O58            6
 147                RT    4,1                                             8  0400  M %U4 001 R          6
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                          1401 AUTOCODER-PASS 8 LOAD TAPE-RIGHT MAIN-VERSION 3       3782L               PAGE    2

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

 148                B     CHKLGT                                          4  0408  B O37                6
 149                BER   TPERR                                           5  0412  B M33 L              7
 150                C     18,@JOB@                                        7  0417  C 018 P14            7
 151                BU    CKCTL                                           5  0424  B 444 /              7
 152                MCW   79,IDENT#4                                      7  0429  M 079 P18            7
 153                CW    JOBSW#1                                         4  0436  ) P19                7
 154                B     READ4                                           4  0440  B 393                7
 155         CKCTL  C     18,@CTL@                                        7  0444  C 018 P22            7
 156                MCW   OUTOPN,23                                       7  0451  M !00 023            8
 157                RWD   4                                               5  0458  U %U4 R              8
 158                BE    TSTSS                                           5  0463  B 475 S              8
 159                LCA   @33@,22                                         7  0468  L P24 022            8
 160         TSTSS  BSS   SENSW,F                                         5  0475  B 528 F              8
 161         TSTOP  BCE   LTAPOP,23,2                                     8  0480  B 591 023 2          8
 162                BCE   LTAPOP,23,3                                     8  0488  B 591 023 3          9
 163                BCE   LTAPOP,23,6                                     8  0496  B 591 023 6          9
 164                BCE   LTAPOP,23,7                                     8  0504  B 591 023 7          9
 165                SW    LTAPSW#1                                        4  0512  , P25                9
 166                B     START                                           4  0516  B ’17                9
 167         *
 168         * OPTION TO PUNCH NEW SOURCE DECK
 169         *
 170         PNH4OP SW    PNH4SW#1                                        4  0520  , P26                9
 171                B     TSTLSW                                          4  0524  B ’49               10
 172         *
 173         * TEST SENSE SWITCHES FOR OPTION
 174         *
 175         SENSW  LCA   @0@,23                                          7  0528  L P27 023           10
 176                BSS   ADD1,B                                          5  0535  B 558 B              10
 177         TSTSSC BSS   ADD2,C                                          5  0540  B 569 C              10
 178         TSTSSG BSS   ADD4,G                                          5  0545  B 580 G              10
 179         SSOUT  CW    23                                              4  0550  ) 023                10
 180                B     TSTOP                                           4  0554  B 480                10
 181         ADD1   A     @1@,23                                          7  0558  A P28 023           11
 182                B     TSTSSC                                          4  0565  B 540                11
 183         ADD2   A     @2@,23                                          7  0569  A P07 023           11
 184                B     TSTSSG                                          4  0576  B 545                11
 185         ADD4   A     @4@,23                                          7  0580  A P29 023           11
 186                B     SSOUT                                           4  0587  B 550                11
 187         *
 188         * SET UP CLEAR STORAGE RECORD
 189         *
 190         LTAPOP CS    PUNCH&80                                        4  0591  / 180               11
 191                SW    GRPMRK                                          4  0595  , P06               12
 192                LCA   GRPMRK,PUNCH&99                                 7  0599  L P06 199           12
 193                LCA   IDENT,PUNCH&79                                  7  0606  L P18 179           12
 194                LCA   @  @                                            4  0613  L P31               12
 195                LCA   @B007@                                          4  0617  L P35               12
 196                LCA   @)021@                                          4  0621  L P39               12
 197                LCA   @B047L@                                         4  0625  L P44               12
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SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
198                 LCA   @L%U1001R@                                  4  0629  L P52              13
199                 LCA   @.@                                         4  0633  L P53              13
200                 LCA   BSPTU1                                      4  0637  L O93              13
201         *
202         * TEST OBJECT CORE SIZE
203         *
204                 C     22,@3@                                      7  0641  C 022 P54           13
205                 BE    IS4K                                        5  0648  B 747 S             13
206                 BH    IS4K                                        5  0653  B 747 U             13
207                 C     22,@6@                                      7  0658  C 022 P55           13
208                 BL    IS4K                                        5  0665  B 747 T             14
209                 LCA   @IO?@,PUNCH&44                              7  0670  L P58 144           14
210                 LCA   @099@                                       4  0677  L P61              14
211                 LCA   @B053@                                      4  0681  L P65              14
212                 LCA   @M0740990                                   4  0685  L P72              14
213                 LCA   @)099@                                      4  0689  L P76              14
214                 LCA   @B001/@                                     4  0693  L P81              14
215                 LCA   @C004041@                                   4  0697  L P88              15
216                 LCA   @#044004@                                   4  0701  L P95              15
217                 LCA   @/I9I@                                      4  0705  L P99              15
218                 BCE   BTSTRP,22,6                                 8  0709  B 842 022 6         15
219                 BCE   IS12K,22,5                                  8  0717  B 736 022 5         15
220                 MZ    ZONE-2,PUNCH&4                              7  0725  Y 337 104           15
221                 B     BTSTRP                                      4  0732  B 842              15
222         IS12K   MZ    ZONE-1,PUNCH&4                              7  0736  Y 338 104           16
223                 B     BTSTRP                                      4  0743  B 842              16
224         IS4K    LCA   @IO@,PUNCH&75                             7  0747  L Q01 175           16
225                 LCA   @B053@,PUNCH&46                            7  0754  L P65 146           16
226                 LCA   @M080990                                    4  0761  L Q08              16
227                 LCA   @)099@                                      4  0765  L P76              16
228                 LCA   @B001@                                      4  0769  L Q12              16
229                 LCA   @B03200200                                  4  0773  L Q20              17
230                 LCA   @)002@                                      4  0777  L Q24              17
231                 LCA   @A075003@                                   4  0781  L Q31              17
232                 LCA   @,002@                                      4  0785  L Q35              17
233                 LCA   @/I99@                                      4  0789  L Q39              17
234                 SW    PUNCH&80                                    4  0793  , 180              17
235                 BCE   BTSTRP,22,3                                 8  0797  B 842 022 3         17
236                 MCW   @Z@,PUNCH&2                                 7  0805  M Q40 102           18
237                 BCE   BTSTRP,22,2                                 8  0812  B 842 022 2         18
238                 MCW   @T@,PUNCH&2                                 7  0820  M Q41 102           18
239                 BCE   BTSTRP,22,1                                 8  0827  B 842 022 1         18
240                 MCW   @I@,PUNCH&2                                 7  0835  M Q42 102           18
241         *
242         * SET UP BOOTSTRAP PROGRAM
243         *
244         BTSTRP  B     WRITE1                                      4  0842  B !30              19
245                 CW    PUNCH&99                                    4  0846  ) 199              19
246                 LCA   GRPMRK,PUNCH&80                             7  0850  L P06 180           19
247                 LCA   @ @,PUNCH&24                                7  0857  L Q43 124           19
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SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
248                 LCA   @.020@                                     4  0864  L Q47              19
249                 LCA   BER1                                        4  0868  L O80              19
250                 LCA   RDREC                                       4  0872  L O88              19
251                 LCA   @.@                                         4  0876  L P53              20
252                 LCA   BSPTU1                                      4  0880  L O93              20
253                 B     WRITE1                                      4  0884  B !30              20
254                 CS    PUNCH&75                                    4  0888  / 175              20
255                 LCA   @ @,PUNCH&35                                7  0892  L Q43 135           20
256                 LCA   @B007@                                      4  0899  L P35              20
257                 LCA   @N000@                                      4  0903  L Q51              20
258                 LCA   @L      @                                   4  0907  L Q58              21
259                 LCA   BER1                                        4  0911  L O80              21
260                 LCA   RDREC                                       4  0915  L O88              21
261                 LCA   @.@                                         4  0919  L P53              21
262                 LCA   BSPTU1                                      4  0923  L O93              21
263         *
264         * TEST PROCESSOR CORE SIZE
265         *
266                 C     21,@3@                                      7  0927  C 021 P54           21
267                 BE    START                                       5  0934  B '17 S             21
268                 BH    START                                       5  0939  B '17 U             22
269                 C     21,@6@                                      7  0944  C 021 P55           22
270                 BL    START                                       5  0951  B '17 T             22
271                 MN    21,SAVEZN#1                                 7  0956  D 021 Q59           22
272                 A     &3,SAVEZN                                   7  0963  A Q60 Q59           22
273                 MN    SAVEZN,*&4                                  7  0970  D Q59 980           22
274                 MZ    ZONE,*&7                                    7  0977  Y 339 990           23
275                 LCA   GRPMRK,GRPMRK                               7  0984  L P06 P06           23
276                 CW    GRPMRK                                      4  0991  ) P06              23
277                 MCW   @4000,KBLKNG                                7  0995  M Q63 P01           23
278                 BCE   START,21,4                                  8  1002  B '17 021 4         23
279                 A     @4000,KBLKNG                                7  1010  A Q63 P01           24
280         *
281         * SET PARAMETERS
282         *
283         START   BCE   PNH4OP,23,4                                 8  1017  B 520 023 4         24
284                 BCE   PNH4OP,23,5                                 8  1025  B 520 023 5         24
285                 BCE   PNH4OP,23,6                                 8  1033  B 520 023 6         24
286                 BCE   PNH4OP,23,7                                 8  1041  B 520 023 7         24
287         TSTLSW  BW    EOJOB,LTAPSW                                8  1049  V X81 P25 1         25
288                 MCW   KBLKNG,BLKCT                                7  1057  M P01 P04           25
289                 CS    80                                          4  1064  / 080              25
290                 BW    SETINP,JOBSW                                8  1068  V '84 P19 1         25
291                 RT    INTAPE,INPUT                                8  1076  M %U5 ?28 R         25
292         SETINP  SW    IMAGE&23,IMAGE&57                           7  1084  , 023 057           26
293                 SW    IMAGE&62,IMAGE&67                           7  1091  , 062 067           26
294                 SW    IMAGE&68,IMAGE&71                           7  1098  , 068 071           26
295                 SW    IMAGE&74,IMAGE&6                            7  1105  , 074 006           26
296                 SW    IMAGE&1                                     4  1112  , 001              26
297                 B     GET                                         4  1116  B !76              26
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SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

298         *
299         * ANALYZE RECORD TYPE
300         *
301         ANALYZ BCE   BYPASS,TYPE,%                               8  1120  B J59 075 %         27
302                BM    BYPASS,IMAGE&5                              8  1128  V J59 005 K         27
303                BCE   INSTR,TYPE,                                 8  1136  B S22 075           27
304                BCE   DOJOB,TYPE,I                                8  1144  B S11 075 I         27
305                MN    TYPE,XR2                                    7  1152  D 075 094           27
306                A     XR2                                         4  1159  A 094               28
307                A     XR2                                         4  1163  A 094               28
308                B     *&1&X2                                      4  1167  B /P1               28
309                B     DA                                          4  1171  B V85               28
310                B     CONST                                       4  1175  B S65               28
311                B     DSA                                         4  1179  B V59               28
312                B     EXEND                                       4  1183  B W82               28
313                B     BYPASS                                      4  1187  B J59               29
314                B     BYPASS                                      4  1191  B J59               29
315                B     BYPASS                                      4  1195  B J59               29
316                B     BYPASS                                      4  1199  B J59               29
317                B     XTRA                                        4  1203  B V34               29
318                B     BYPASS                                      4  1207  B J59               29
319         DOJOB  MCW   IMAGE&20,PUNCH&79                           7  1211  M 020 179           29
320                B     BYPASS                                      4  1218  B J59               30
321         *
322         * PROCESS INSTRUCTIONS
323         *
324         INSTR  MCW   DMOD,PUNCH&42                               7  1222  M 074 142           30
325                MCW                                               1  1229  M                   30
326                MCW                                               1  1230  M                   30
327                MCW                                               1  1231  M                   30
328                MCW   LABADD,CNVADD                               7  1232  M 061 ?01           30
329                A     COUNT,CNVADD                                7  1239  A 007 ?01           30
330                S     @1@,CNVADD                                  7  1246  S P28 ?01           31
331         INSTXT B     SETLOC                                      4  1253  B J67               31
332                B     WRITE2                                      4  1257  B K64               31
333                B     BYPASS                                      4  1261  B J59               31
334         *
335         * PROCESS CONSTANTS
336         *
337         CONST  A     @00@,COUNT                                  7  1265  A Q65 007           31
338                C     COUNT,@00@                                  7  1272  C 007 Q65           31
339                BL    *&5                                         5  1279  B S88 T             31
340                B     BYPASS                                      4  1284  B J59               32
341                BCE   PCHCON,IMAGE&23,#                           8  1288  B T44 023 #         32
342                BWZ   PCHCON,IMAGE&4,B                            8  1296  V T44 004 B         32
343                MCW   IMAGE&53,HOLDDT-22                          7  1304  M 053 R26           32
344                BCE   ALPHA,IMAGE&23,@                            8  1311  B T23 023 @         32
345                B     PCHCON                                      4  1319  B T44               32
346         ALPHA  MCW   &HOLDDT-51,XR1                              7  1323  M Q68 089           33
347                A     COUNT,XR1                                   7  1330  A 007 089           33
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SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

348                MCW   BLANK1#1,XXXX&X1                           7  1337  M Q69 0'0           33
349         PCHCON MCW   HOLDDT-20,PUNCH&66                         7  1344  M R28 166           33
350                MCW   LABADD,CNVADD                               7  1351  M 061 ?01           33
351                C     COUNT,@32@                                  7  1358  C 007 Q71           34
352                BL    LARGE                                       5  1365  B T82 T             34
353                BCE   PRODC,TYPE,A                                8  1370  B U47 075 A         34
354                B     INSTXT                                      4  1378  B S53               34
355         *
356         * CONSTANTS LARGER THAN 32 CHARACTERS
357         *
358         LARGE  S     @32@,COUNT                                  7  1382  S Q71 007           34
359                S     COUNT,CNVADD                                7  1389  S 007 ?01           34
360                MCW   COUNT,HOLDCT#2                              7  1396  M 007 Q73           35
361                MCW   @32@,COUNT                                  7  1403  M Q71 007           35
362                B     SETLOC                                      4  1410  B J67               35
363                BCE   LRGDC,TYPE,A                                8  1414  B U94 075 A         35
364         LRGXT  MCW   HOLDCT,COUNT                                7  1422  M Q73 007           35
365                MCW   HOLDDT,TEMP#20                             7  1429  M R48 Q93           36
366                B     WRITE2                                      4  1436  B K64               36
367                MCW   TEMP,PUNCH&54                               7  1440  M Q93 154           36
368         *
369         * PROCESS DC
370         *
371         PRODC  MCW   LABADD,CNVADD                               7  1447  M 061 ?01           36
372                S     COUNT,CNVADD                                7  1454  S 007 ?01           36
373                A     @1@,CNVADD                                  7  1461  A P28 ?01           36
374                B     CNVRT                                       4  1468  B K11               37
375                MCW   CNVWK,PUNCH&30                              7  1472  M ?04 130           37
376                MCW   @)@                                         4  1479  M Q94               37
377                MCW   LABADD,CNVADD                               7  1483  M 061 ?01           37
378                B     INSTXT                                      4  1490  B S53               37
379         *
380         * DC GREATER THAN 32 CHARACTERS
381         *
382         LRGDC  MCW   LABADD,CNVADD                               7  1494  M 061 ?01           37
383                S     HOLDCT,CNVADD                               7  1501  S Q73 ?01           38
384                S     @31@,CNVADD                                 7  1508  S Q96 ?01           38
385                B     CNVRT                                       4  1515  B K11               38
386                MCW   CNVWK,PUNCH&30                              7  1519  M ?04 130           38
387                MCW   @)@                                         4  1526  M Q94               38
388                B     LRGXT                                       4  1530  B U22               38
389         *
390         * EXTRA CONSTANT FOR CONSTANT OVER 32 CHARACTERS
391         *
392         XTRA   BCE   BYPASS,IMAGE&21,                            8  1534  B J59 021           39
393                MCW   IMAGE&73,HOLDDT#52                          7  1542  M 073 R48           39
394                CHAIN 6                                                                 MACRO
395                MCW                                               1  1549  M           GEN     39
396                MCW                                               1  1550  M           GEN     39
397                MCW                                               1  1551  M           GEN     39
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
398                MCW                                                1  1552  M           GEN     39
399                MCW                                                1  1553  M           GEN     39
400                MCW                                                1  1554  M           GEN     40
401                B     BYPASS                                       4  1555  B J59               40
402         *
403         * PROCESS DSA
404         *
405         DSA    MCW   BOP,PUNCH&37                                 7  1559  M 073 137           40
406                BCE   PRODC,TYPE,B                                 8  1566  B U47 075 B         40
407                MCW   LABADD,CNVADD                                7  1574  M 061 ?01           40
408                B     INSTXT                                       4  1581  B S53               40
409         *
410         * PROCESS DEFINE AREA
411         *
412         DA     BCE   BYPASS,TYPE,!                                8  1585  B J59 075 !         40
413                BCE   HEADER,TYPE,0                                8  1593  B W24 075 0         41
414         *
415         * FIELD, FIELD REPEAT
416         *
417         FIELD  MCW   SUPADD,CNVADD                                7  1601  M 066 ?01           41
418                B     DARTN                                        4  1608  B W47               41
419                BCE   FIELD,TYPE,'                                 8  1612  B W01 075 '         41
420                B     ANALYZ                                       4  1620  B /20               41
421         *
422         * HEADER, HEADER REPEAT
423         *
424         HEADER MCW   LABADD,CNVADD                                7  1624  M 061 ?01           41
425                B     DARTN                                        4  1631  B W47               42
426                BCE   HEADER,TYPE,'                                8  1635  B W24 075 '         42
427                B     ANALYZ                                       4  1643  B /20               42
428         *
429         * DA SUBROUTINE
430         *
431         DARTN  SBR   DAXT&3                                       4  1647  H W81               42
432                B     CNVRT                                        4  1651  B K11               42
433                MCW   CNVWK,PUNCH&26                               7  1655  M ?04 126           42
434                MCW   CNVWK                                        4  1662  M ?04               42
435                MCW   @,@                                          4  1666  M R49               43
436                B     WRITE2                                       4  1670  B K64               43
437                B     GET                                          4  1674  B !76               43
438         DAXT   B     XXXX                                         4  1678  B 000               43
439         *
440         * PROCESS EX, END
441         *
442         EXEND  BCE   END,TYPE,3                                   8  1682  B X58 075 3         43
443                MCW   AOP,PUNCH&30                                 7  1690  M 070 130           43
444                MCW   @B@                                          4  1697  M R50               43
445                MCW   @N000000@                                    4  1701  M R57               44
446                B     WRITE2                                       4  1705  B K64               44
447                LCA   @ @,PUNCH&24                                 7  1709  L Q43 124           44
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
448                LCA   @B007@                                      4  1716  L P35               44
449                B     GET                                          4  1720  B !76               44
450                BCE   ISJOB,TYPE,I                                 8  1724  B X47 075 I         44
451         COMPAT B     WRITE1                                       4  1732  B !30               44
452                LCA   @L      @,PUNCH&26                           7  1736  L R64 126           45
453                B     ANALYZ                                       4  1743  B /20               45
454         ISJOB  MCW   IMAGE&20,PUNCH&79                            7  1747  M 020 179           45
455                B     COMPAT                                       4  1754  B X32               45
456         *
457         * END
458         *
459         END    MCW   @/   080@,PUNCH&26                          7  1758  M R71 126           45
460                MCW   AOP,PUNCH&23                                 7  1765  M 070 123           45
461                B     WRITE2                                       4  1772  B K64               46
462                WTM   OUTAPE                                       5  1776  U %U6 M             46
463         EOJOB  BW    PUNCH4,PNH4SW                              8  1781  V X93 P26 1         46
464                B     ENDJOB                                       4  1789  B !55               46
465         *
466         * PUNCH NEW SOURCE DECK
467         *
468         PUNCH4 CS    PUNCH&80                                   4  1793  / 180               46
469                MCW   @113@,LGTCK&6                              7  1797  M R74 O58           46
470                RT    4,PUNCH&1                                  8  1804  M %U4 101 R         47
471                B     CHKLGT                                       4  1812  B O37               47
472                BER   TPERR                                      5  1816  B M33 L             47
473                BCE   DOLTO,PUNCH&75,L                           8  1821  B Z54 175 L         47
474                BCE   PUNCH4,PUNCH&75,S                          8  1829  B X93 175 S         47
475                BCE   PUNCH4,PUNCH&75,C                          8  1837  B X93 175 C         48
476                BCE   PUNCH4,PUNCH&75,Z                          8  1845  B X93 175 Z         48
477                BCE   PUNCH4,PUNCH&75,Y                          8  1853  B X93 175 Y         48
478         BUMP   A     &1,SEQCT-1                                 7  1861  A R75 O97           48
479                MCW   SEQCT,PUNCH&5                              7  1868  M O98 105           48
480                BCE   DOPCH,PUNCH&6,*                           8  1875  B Z13 106 *         49
481                MCW   BLANK4#4,PUNCH&15                          7  1883  M R79 115           49
482                C     PUNCH&18,@JOB@                             7  1890  C 118 P14           49
483                BU    DOPCH                                      5  1897  B Z13 /             49
484                MCW   BLANK4,PUNCH&11                            7  1902  M R79 111           49
485                MCW   BLANK4-2                                   4  1909  M R77               49
486         DOPCH  MCW   BLANK4-1,PUNCH&75                          7  1913  M R78 175           50
487                P                                                1  1920  4                   50
488                SS    4                                          2  1921  K 4                 50
489                C     PUNCH&18,@END@                             7  1923  C 118 R82           50
490                BU    PUNCH4                                     5  1930  B X93 /             50
491                BCE   PUNCH4,PUNCH&6,*                           8  1935  B X93 106 *         50
492                CS    PUNCH&80                                   4  1943  / 180               50
493                P                                                1  1947  4                   51
494                SS    8                                          2  1948  K 8                 51
495                B     ENDJOB                                       4  1950  B !55               51
496         DOLTO  MCW   @LTORG@,PUNCH&20                           7  1954  M R87 120           51
497                B     BUMP                                       4  1961  B Y61               51
```

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

498               DCW   @ @                                             1  1965                    51
499         ENDF1 DCW   @}@                                             1  1966              GMARK 51
500               XFR   LIBRN                                                    B 000              52
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SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD

501               JOB   1401 AUTOCODER-PASS 8-LOAD TAPE-LEFT MAIN -VERSION 3
502               ORG   2000                                                    2000
503         OUTOPN DCW  @ @                                             1  2000                    55
504         SSOP  DCW   @B@                                             1  2001                    55
505               RTW   1,1                                             8  2002  L %U1 001 R       55
506               NOP   XXXX                                            4  2010  N 000             55
507               BER   TPERR                                           5  2014  B M33 L           55
508               CW    ENDF1,ENDF2                                     7  2019  ) Z66 I98         55
509               B     INITLZ                                          4  2026  B 340             55
510         *
511         * WRITE CLEAR STORAGE AND BOOTSTRAP
512         *
513         WRITE1 SBR  WT1XT&3                                         4  2030  H !54             56
514               WTW   OUTAPE,OUTPUT                                   8  2034  L %U6 101 W       56
515               NOP   XXXX                                            4  2042  N 000             56
516               BER   TPERR                                           5  2046  B M33 L           56
517         WT1XT B     XXXX                                            4  2051  B 000             56
518         *
519         * GO BACK TO PASS E FOR EXTRA OUTPUT
520         *
521         ENDJOB RTW  1,333                                           8  2055  L %U1 333 R       56
522               NOP   XXXX                                            4  2063  N 000             56
523               BER   TPERR                                           5  2067  B M33 L           57
524               B     MESSAG                                          4  2072  B 333             57
525         *
526         * RETRIEVE INPUT RECORD
527         *
528         GET   SBR   GETXT&3                                         4  2076  H J58             57
529               C     BLKCT,KBLKNG                                    7  2080  C P04 P01         57
530               BU    NXTREC                                          5  2087  B J20 /           57
531               S     HOLDA                                           4  2092  S P05             57
532               MCW   &INPUT&13,LGTCK&6                               7  2096  M R90 O58         57
533               RT    INTAPE,INPUT                                    8  2103  M %U5 ?28 R       58
534               B     CHKLGT                                          4  2111  B O37             58
535               BER   TPERR                                           5  2115  B M33 L           58
536         NXTREC A    &80,BLKCT                                       7  2120  A R92 P04         58
537               MCW   BLKCT,XR3                                       7  2127  M P04 099         58
538               MCW   INPUT-1&X3,IMAGE&80                             7  2134  M ?B7 080         58
539               CHAIN 8                                                                 MACRO
540               MCW                                                 1  2141  M           GEN   58
541               MCW                                                 1  2142  M           GEN   59
542               MCW                                                 1  2143  M           GEN   59
543               MCW                                                 1  2144  M           GEN   59
544               MCW                                                 1  2145  M           GEN   59
545               MCW                                                 1  2146  M           GEN   59
546               MCW                                                 1  2147  M           GEN   59
547               MCW                                                 1  2148  M           GEN   59
548               S     XR3&1                                         4  2149  S 100             60
549               S                                                   1  2153  S                 60
550               S                                                   1  2154  S                 60
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

551         GETXT  B     XXXX                                        4  2155  B 000              60
552         *
553         * DO NEXT RECORD
554         *
555         BYPASS B     GET                                         4  2159  B !76              60
556                B     ANALYZ                                      4  2163  B /20              60
557         *
558         * SET ADDRESSES IN OUTPUT
559         *
560         SETLOC SBR   LOCXT&3                                     4  2167  H K10              60
561                B     CNVRT                                       4  2171  B K11              61
562                MCW   CNVWK,PUNCH&26                              7  2175  M ?04 126          61
563                ZA    &34,CNVADD                                  7  2182  ? R94 ?01          61
564                A     COUNT,CNVADD                                7  2189  A 007 ?01          61
565                B     CNVRT                                       4  2196  B K11              61
566                MCW   CNVWK,PUNCH&23                              7  2200  M ?04 123          61
567         LOCXT  B     XXXX                                        4  2207  B 000              62
568         *
569         * CONVERT 5 TO 3 DIGIT ADDRESS
570         *
571         CNVRT  SBR   CNVXT&3                                     4  2211  H K63              62
572                BAV   *&1                                         5  2215  B K20 Z            62
573         ADDAGN A     &96,CNVADD-3                                7  2220  A R96 R98          62
574                BAV   ADDAGN                                      5  2227  B K20 Z            62
575                MZ    CNVADD-4,CNVADD#5                           7  2232  Y R97 ?01          62
576                MN    CNVADD-3,*&4                                7  2239  D R98 K49          62
577                MZ    ZONE,CNVADD-2                               7  2246  Y 339 R99          63
578                MCW   CNVADD,CNVWK#3                              7  2253  M ?01 ?04          63
579         CNVXT  B     XXXX                                        4  2260  B 000              63
580         *
581         * WRITE OUTPUT RECORDS
582         *
583         WRITE2 SBR   WT2XT&3                                     4  2264  H L30              63
584                BCE   DOGM,PUNCH&35,}                             8  2268  B L31 135 } GMARK  63
585                WTW   OUTAPE,OUTPUT&19                            8  2276  L %U6 120 W        63
586                NOP   XXXX                                        4  2284  N 000              64
587                BER   TPERR                                       5  2288  B M33 L            64
588                NOP                                               1  2293  N                  64
589         CLEAR  MCW   BLANK1,PUNCH&75                            7  2294  M Q69 175          64
590                MCW   PUNCH&75                                    4  2301  M 175              64
591                MCW   BLANK1,HOLDDT                              7  2305  M Q69 R48          64
592                MCW   HOLDDT                                     4  2312  M R48              64
593                MCW   @N000@,PUNCH&30                           7  2316  M Q51 130          65
594                MCW   @L      @                                 4  2323  M ?11              65
595         WT2XT  B     XXXX                                        4  2327  B 000              65
596         DOGM   CS    299                                         4  2331  / 299              65
597                LCA   PUNCH&80,280                                7  2335  L 180 280          65
598                LCA                                               1  2342  L                  65
599                MCW   PUNCH&66,274                                7  2343  M 166 274          65
600                LCA   @ @                                         4  2350  L Q43              66
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

601                LCA   @B007@                                     4  2354  L P35              66
602                LCA   @)043043@                                  4  2358  L ?18              66
603                LCA   PUNCH&26                                   4  2362  L 126              66
604                LCA   @,043@                                     4  2366  L ?22              66
605                SW    225,235                                    7  2370  , 225 235          66
606                A     &8,227                                     7  2377  A ?23 227          66
607                CW    225                                        4  2384  ) 225              67
608                BCE   WTGM,PUNCH&27,N                            8  2388  B M03 127 N        67
609                MCW   PUNCH&30,237                               7  2396  M 130 237          67
610         WTGM   CW    235                                        4  2403  ) 235              67
611                WTW   OUTAPE,220                                 8  2407  L %U6 220 W        67
612                NOP   XXXX                                       4  2415  N 000              67
613                BER   TPERR                                      5  2419  B M33 L            68
614                NOP                                              1  2424  N                  68
615                CW    280                                        4  2425  ) 280              68
616                B     CLEAR                                      4  2429  B K94              68
617         *
618         * TAPE REDUNDANCY ROUTINE
619         *
620         TPERR  SBR   XR2                                        4  2433  H 094              68
621                SBR   REDXT&3                                    4  2437  H N05              68
622                MZ    &9,XR2                                     7  2441  Y ?24 094          68
623                MCW   4000-10&X2,TPINST&7                        7  2448  M IR0 M96          69
624                MN    TPINST&3,BSP1&3                            7  2455  D M92 M72          69
625                MCW   TPINST&7,INST2&7                           7  2462  M M96 O05          69
626         BSP1   BSP   INITAP                                     5  2469  U %U0 B            69
627                BCE   WRTRED,TPINST&7,W                          8  2474  B N78 M96 W        69
628                MCW   &9,READCT#1                               7  2482  M ?24 ?25          70
629         TPINST RT    INITAP,XXXX                                8  2489  M %U0 000 R        70
630                BER   RDRERR                                     5  2497  B N06 L            70
631         REDXT  B     XXXX                                       4  2502  B 000              70
632         RDRERR MN    TPINST&3,BSP2&3                            7  2506  D M92 N16          70
633         BSP2   BSP   INITAP                                     5  2513  U %U0 B            70
634                S     &1,READCT                                  7  2518  S R75 ?25          71
635                BWZ   TPINST,READCT,B                            8  2525  V M89 ?25 B        71
636                MN    TPINST&3,TPHALT&6                          7  2533  D M92 N46          71
637         TPHALT H     XXXX,890                                   7  2540  . 000 890          71
638                MCW   TPINST&7,*&8                               7  2547  M M96 N61          71
639                RT    INITAP,XXXX                                8  2554  M %U0 000 R        72
640                BSS   BSP1,E                                     5  2562  B M69 E            72
641                H     XXXX,811                                   7  2567  . 000 811          72
642                B     REDXT                                      4  2574  B N02              72
643         WRTRED SKP   1                                          5  2578  U %U1 E            72
644                BCE   SUBCTR,WRTCTR-1,5                          8  2583  B O15 ?26 5        72
645                A     &1,WRTCTR#2                                7  2591  A R75 ?27          73
646         INST2  WT    INITAP,XXXX                                8  2598  M %U0 000 W        73
647                BER   BSP1                                       5  2606  B M69 L            73
648                B     REDXT                                      4  2611  B N02              73
649         SUBCTR S     WRTCTR                                     4  2615  S ?27              73
650                MN    TPINST&3,*&7                               7  2619  D M92 O32          73
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SEQ PG LIN  LABEL    OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

651                  H     XXXX,860                                    7  2626  . 000 860          74
652                  B     INST2                                       4  2633  B N98              74
653         *
654         * CHECK FOR SHORT RECORDS
655         *
656         CHKLGT   SBR   XR2                                        4  2637  H 094              74
657                  SBR   LGTXT&3                                   4  2641  H O75              74
658                  MZ    &9,XR2                                    7  2645  Y ?24 094          74
659         LGTCK    BCE   4000-12&X2,XXXX,}                         8  2652  B IQ8 000 } GMARK  74
660                  CHAIN 12                                                                 MACRO
661                  BCE                                             1  2660  B              GEN     74
662                  BCE                                             1  2661  B              GEN     75
663                  BCE                                             1  2662  B              GEN     75
664                  BCE                                             1  2663  B              GEN     75
665                  BCE                                             1  2664  B              GEN     75
666                  BCE                                             1  2665  B              GEN     75
667                  BCE                                             1  2666  B              GEN     75
668                  BCE                                             1  2667  B              GEN     75
669                  BCE                                             1  2668  B              GEN     76
670                  BCE                                             1  2669  B              GEN     76
671                  BCE                                             1  2670  B              GEN     76
672                  BCE                                             1  2671  B              GEN     76
673         LGTXT    B     XXXX                                      4  2672  B 000              76
674         BER1     DCW   @B001L@                                   5  2680                     76
675         RDREC    DCW   @L%U102OR@                               8  2688                     76
676         BSPTU1   DCW   @U%U1B@                                   5  2693                     77
677         SEQCT    DCW   @0100 @                                   5  2698                     77
678         KBLKNG   DCW   080                                       3  2701                     77
679         HOLDA    DCW   &0000                                     4  2705                     77
680         BLKCT    EQU   HOLDA-1                                      2704
681         GRPMRK   DC    @}@                                       1  2706              GMARK   77
682                  LTORG *                                                  2707
                     DCW   @2@                                       1  2707              LIT     77
                     DCW   @7@                                       1  2708              LIT     77
                     DCW   @013@                                     3  2711              LIT     77
                     DCW   @JOB@                                     3  2714              LIT     78
            IDENT    DCW   #04                                       4  2718              AREA    78
            JOBSW    DCW   #01                                       1  2719              AREA    78
                     DCW   @CTL@                                     3  2722              LIT     78
                     DCW   @33@                                      2  2724              LIT     78
            LTAPSW   DCW   #01                                       1  2725              AREA    78
            PNH4SW   DCW   #01                                       1  2726              AREA    78
                     DCW   @0@                                       1  2727              LIT     79
                     DCW   @1@                                       1  2728              LIT     79
                     DCW   @4@                                       1  2729              LIT     79
                     DCW   @  @                                      2  2731              LIT     79
                     DCW   @B007@                                    4  2735              LIT     79
                     DCW   @)021@                                    4  2739              LIT     79
                     DCW   @B047L@                                   5  2744              LIT     79
                     DCW   @L%U1001R@                                8  2752              LIT     80
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SEQ PG LIN  LABEL    OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

                     DCW   @.@                                       1  2753              LIT     80
                     DCW   @3@                                       1  2754              LIT     80
                     DCW   @6@                                       1  2755              LIT     80
                     DCW   @IO?@                                     3  2758              LIT     80
                     DCW   @099@                                     3  2761              LIT     80
                     DCW   @B053@                                    4  2765              LIT     80
                     DCW   @M074099@                                 7  2772              LIT     81
                     DCW   @)099@                                    4  2776              LIT     81
                     DCW   @B001/@                                   5  2781              LIT     81
                     DCW   @C004041@                                 7  2788              LIT     81
                     DCW   @#044004@                                 7  2795              LIT     81
                     DCW   @/I9I@                                    4  2799              LIT     81
                     DCW   @IO@                                      2  2801              LIT     81
                     DCW   @M080099@                                 7  2808              LIT     82
                     DCW   @B001@                                    4  2812              LIT     82
                     DCW   @B0320020@                                8  2820              LIT     82
                     DCW   @)002@                                    4  2824              LIT     82
                     DCW   @A075003@                                 7  2831              LIT     82
                     DCW   @,002@                                    4  2835              LIT     82
                     DCW   @/I99@                                    4  2839              LIT     82
                     DCW   @Z@                                       1  2840              LIT     83
                     DCW   @T@                                       1  2841              LIT     83
                     DCW   @I@                                       1  2842              LIT     83
                     DCW   @ @                                       1  2843              LIT     83
                     DCW   @.020@                                    4  2847              LIT     83
                     DCW   @N000@                                    4  2851              LIT     83
                     DCW   @L      @                                 7  2858              LIT     83
            SAVEZN   DCW   #01                                       1  2859              AREA    84
                     DCW   &3                                        1  2860              LIT     84
                     DCW   @400@                                     3  2863              LIT     84
                     DCW   @00@                                      2  2865              LIT     84
                     DCW   &HOLDDT-51                                3  2868  Q97         ADCON   84
            BLANK1   DCW   #01                                       1  2869              AREA    84
                     DCW   @32@                                      2  2871              LIT     84
            HOLDCT   DCW   #02                                       2  2873              AREA    85
            TEMP     DCW   #20                                      20  2893              AREA    85
                     DCW   @)@                                       1  2894              LIT     85
                     DCW   @31@                                      2  2896              LIT     85
            HOLDDT   DCW   #52                                      52  2948              AREA    87
                     DCW   @,@                                       1  2949              LIT     87
                     DCW   @B@                                       1  2950              LIT     87
                     DCW   @N000000@                                 7  2957              LIT     87
                     DCW   @L      @                                 7  2964              LIT     87
                     DCW   @/   080@                                 7  2971              LIT     88
                     DCW   @113@                                     3  2974              LIT     88
                     DCW   &1                                        1  2975              LIT     88
            BLANK4   DCW   #04                                       4  2979              AREA    88
                     DCW   @END@                                     3  2982              LIT     88
                     DCW   @LTORG@                                   5  2987              LIT     88
                     DCW   &INPUT&13                                 3  2990  ?41         ADCON   88
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
                    DCW   &80                                             2  2992              LIT     89
                    DCW   &34                                             2  2994              LIT     89
                    DCW   &96                                             2  2996              LIT     89
              CNVADD DCW  #05                                             5  3001              AREA    89
              CNVWK  DCW  #03                                             3  3004              AREA    89
                    DCW   @L     @                                        7  3011              LIT     89
                    DCW   @)043043@                                       7  3018              LIT     89
                    DCW   @,043@                                          4  3022              LIT     90
                    DCW   &8                                              1  3023              LIT     90
                    DCW   &9                                              1  3024              LIT     90
              READCT DCW  #01                                             1  3025              AREA    90
              WRTCTR DCW  #02                                             2  3027              AREA    90
683           *
684           * INPUT AREA
685           *
686           INPUT  EQU  *&1                                                3028
687           ENDF2  EQU  3998                                               3998
688           3998   DCW  @}@                                             1  3998              GMARK   91
689                  XFR  LIBRN                                                    B 000              92
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
690                 JOB   1401 AUTOCODER-PASS 8 EXTRA OUTPUT OVERLAY-VERSION 3
691                 ORG   333                                                     0333
692           *
693           * PRINT END OF JOB MESSAGES
694           *
695           MESSAG CC    1                                              2  0333  F 1                95
696                 CS    332                                            4  0335  / 332              95
697                 CS                                                   1  0339  /                  95
698                 MCW   @END OF ASSEMBLY@,PRINT&15                     7  0340  M 696 215           95
699                 W                                                    1  0347  2                  95
700                 CC    K                                              2  0348  F K                95
701                 MCW   @IF EXTRA OUTPUT DESIRED, SET SENSE@,PRINT&34  7  0350  M 730 234           95
702                 MCW   @SWITCH F ON, AND@, PRINT&51                   7  0357  M 746 251           96
703                 W                                                    1  0364  2                  96
704                 CC    J                                              2  0365  F J                96
705                 CS    PRINT&71                                       4  0367  / 271              96
706                 MCW   @B ON FOR CONDENSED CARDS@,PRINT&24            7  0371  M 770 224           96
707                 W                                                    1  0378  2                  96
708                 MCW   @C ON FOR LOADABLE TAPE 6@,PRINT&24            7  0379  M 794 224           96
709                 W                                                    1  0386  2                  97
710                 MCW   @D ON FOR LISTING TAPE  3@,PRINT&24            7  0387  M 818 224           97
711                 W                                                    1  0394  2                  97
712                 MCW   @E ON TO SUPPRESS LISTING@,PRINT&24            7  0395  M 842 224           97
713                 W                                                    1  0402  2                  97
714                 MCW   @G ON FOR NEW SOURCE DECK@,PRINT&24            7  0403  M 866 224           97
715                 W                                                    1  0410  2                  97
716                 CC    J                                              2  0411  F J                98
717                 CS    PRINT&24                                       4  0413  / 224              98
718                 MCW   @AND PRESS START@,PRINT&15                     7  0417  M 881 215           98
719                 W                                                    1  0424  2                  98
720                 CC    K                                              2  0425  F K                98
721                 MCW   @IF NO EXTRA OUTPUT DESIRED, PRESS START@,PRINT&39 7  0427  M 920 239      98
722                 W                                                    1  0434  2                  98
723                 CC    1                                              2  0435  F 1                99
724                 CW    GRPMRK                                         4  0437  ) P06              99
725                 H     XXXX,880                                       7  0441  . 000 880          99
726                 BSS   GOTOE,F                                        5  0448  B 530 F            99
727                 CS    PRINT&39                                       4  0453  / 239              99
728                 MCW   @END OF JOB@,PRINT&10                          7  0457  M 930 210           99
729                 W                                                    1  0464  2                  99
730                 CC    K                                              2  0465  F K               100
731                 MCW   @INPUT FOR RE-ASSEMBLY ON TAPE UNIT 4@,PRINT&36 7  0467  M 966 236          100
732                 W                                                    1  0474  2                 100
733                 RWD   1                                              5  0475  U %U1 R           100
734                 RWD   4                                              5  0480  U %U4 R           100
735                 RWD   5                                              5  0485  U %U5 R           100
736                 RWD   6                                              5  0490  U %U6 R           100
737                 BW    FINAL,LTAPSW                                   8  0495  V 517 P25 1       101
738                 CS    236                                            4  0503  / 236             101
739                 MLC   @LOADABLE TAPE ON TAPE UNIT 6@,PRINT&28        7  0507  M 994 228         101
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD

740                 CC    K                                             2  0514  F K               101
741                 W                                                   1  0516  2                 101
742         FINAL   CC    1                                             2  0517  F 1               101
743                 H     XXXX,889                                      7  0519  . 000 889         101
744                 B     FINAL&2                                       4  0526  B 519             102
745         GOTOE   CW    ENDF2,ENDF3                                   7  0530  ) I98 998         102
746                 CW    INPUT&80                                      4  0537  ) A08             102
747                 CS    PUNCH&99                                      4  0541  / 199             102
748                 BSP   1                                             5  0545  U %U1 B           102
749                 BSP   1                                             5  0550  U %U1 B           102
750                 BSP   1                                             5  0555  U %U1 B           102
751                 BSP   1                                             5  0560  U %U1 B           103
752                 BSP   1                                             5  0565  U %U1 B           103
753                 BSP   1                                             5  0570  U %U1 B           103
754                 BSP   1                                             5  0575  U %U1 B           103
755                 BSP   1                                             5  0580  U %U1 B           103
756                 RTW   1,PASSE                                       8  0585  L %U1 Z00 R       103
757                 BER   TPERR2                                        5  0593  B 602 L           103
758                 B     PASSE&1                                       4  0598  B Z01             104
759         TPERR2  MCW   &9,READC#1                                    7  0602  M 995 996         104
760                 BSP   1                                             5  0609  U %U1 B           104
761         RETRY   RTW   1,PASSE                                       8  0614  L %U1 Z00 R       104
762                 BER   AGAIN                                         5  0622  B 631 L           104
763                 B     PASSE&1                                       4  0627  B Z01             104
764         AGAIN   BSP   1                                             5  0631  U %U1 B           104
765                 S     &1,READC                                      7  0636  S 997 996         105
766                 BWZ   RETRY,READC,B                                 8  0643  V 614 996 B       105
767                 H     XXXX,891                                      7  0651  . 000 891         105
768                 RTW   1,PASSE                                       8  0658  L %U1 Z00 R       105
769                 BSS   TPERR2,E                                      5  0666  B 602 E           105
770                 H     XXXX,812                                      7  0671  . 000 812         106
771                 B     PASSE&1                                       4  0678  B Z01             106
772                 LTORG *                                                   0682
                    DCW   @END OF ASSEMBLY@                            15  0696            LIT   106
                    DCW   @IF EXTRA OUTPUT DESIRED, SET SENSE@         34  0730            LIT   107
                    DCW   @SWITCH F ON, AND@                           16  0746            LIT   108
                    DCW   @B ON FOR CONDENSED CARDS@                   24  0770            LIT   109
                    DCW   @C ON FOR LOADABLE TAPE 6@                   24  0794            LIT   110
                    DCW   @D ON FOR LISTING TAPE  3@                   24  0818            LIT   111
                    DCW   @E ON TO SUPPRESS LISTING@                   24  0842            LIT   112
                    DCW   @G ON FOR NEW SOURCE DECK@                   24  0866            LIT   113
                    DCW   @AND PRESS START@                            15  0881            LIT   113
                    DCW   @IF NO EXTRA OUTPUT DESIRED, PRESS START@    39  0920            LIT   114
                    DCW   @END OF JOB@                                 10  0930            LIT   115
                    DCW   @INPUT FOR RE-ASSEMBLY ON TAPE UNIT 4@       36  0966            LIT   116
                    DCW   @LOADABLE TAPE ON TAPE UNIT 6@               28  0994            LIT   117
                    DCW   &9                                            1  0995            LIT   117
            READC   DCW   #01                                           1  0996            AREA  117
                    DCW   &1                                            1  0997            LIT   117
773         ENDF3   DCW   @)@                                           1  0998            GMARK 117
```



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

774         PASSE   EQU   1900                                              1900
775                 EX    LIBRN                                                 B 000             118
776                 END   LIBRN                                                 / 000 080
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ADD1	558	ADD2	569	ADD4	580	ADDAGN	2220	AGAIN	631	ALPHA	1323	ANALYZ	1120
AOP	70	BER1	2680	BLANK1	2869	BLANK4	2979	BLKCT	2704	BOP	73	BSP1	2469
BSP2	2513	BSPTU1	2693	BTSTRP	842	BUMP	1861	BYPASS	2159	CHKLGT	2637	CKCTL	444
CLEAR	2294	CNVADD	3001	CNVRT	2211	CNVWK	3004	CNVXT	2260	COMPAT	1732	CONST	1265
COUNT	7	DA	1585	DARTN	1647	DAXT	1678	DMOD	74	DOGM	2331	DOJOB	1211
DOLTO	1954	DOPCH	1913	DSA	1559	END	1758	ENDF1	1966	ENDF2	3998	ENDF3	998
ENDJOB	2055	EOJOB	1781	EXEND	1682	FIELD	1601	FINAL	517	GET	2076	GETXT	2155
GOTOE	530	GRPMRK	2706	HEADER	1624	HOLDA	2705	HOLDCT	2873	HOLDDT	2948	IDENT	2718
IMAGE	0	INITAP	%U0	INITLZ	340	INPUT	3028	INST2	2598	INSTR	1222	INSTXT	1253
INTAPE	%U5	IS12K	736	IS4K	747	ISJOB	1747	JOBSW	2719	KBLKNG	2701	LABADD	61
LARGE	1382	LGTCK	2652	LGTXT	2672	LIBRN	0	LOCXT	2207	LRGDC	1494	LRGXT	1422
LTAPOP	591	LTAPSW	2725	MESSAG	333	NXTREC	2120	OUTAPE	%U6	OUTOPN	2000	OUTPUT	101
PASSE	1900	PCHCON	1344	PNH4OP	520	PNH4SW	2726	PRINT	200	PRODC	1447	PUNCH	100
PUNCH4	1793	RDREC	2688	RDRERR	2506	READ4	393	READC	996	READCT	3025	REDXT	2502
RETRY	614	SAVEZN	2859	SENSW	528	SEQCT	2698	SETINP	1084	SETLOC	2167	SSOP	2001
SSOUT	550	START	1017	SUBCTR	2615	SUPADD	66	TEMP	2893	TPERR	2433	TPERR2	602
TPHALT	2540	TPINST	2489	TSTLSW	1049	TSTOP	480	TSTSS	475	TSTSSC	540	TSTSSG	545
TYPE	75	WRITE1	2030	WRITE2	2264	WRTCTR	3027	WRTRED	2578	WT1XT	2051	WT2XT	2327
WTGM	2403	XR1	89	XR2	94	XR3	99	XTRA	1534	XXXX	0	ZONE	339