```
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

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

 101  1 01   000    JOB   1401 AUTOCODER-PASS 8 LOAD TAPE-RIGHT MAIN-VERSION 3
 102  1 02          CTL   630 1
 103  1 03   *
 104  1 04   * EQUATES USED BY PROGRAM
 105  1 05   *
 106  1 06   INITAP EQU   %U0                                                    %U0
 107  1 07   INTAPE EQU   %U5                                                    %U5
 108  1 08   OUTAPE EQU   %U6                                                    %U6
 109  1 09   PUNCH  EQU   100                                                    0100
 110  1 10   OUTPUT EQU   PUNCH&1                                               0101
 111  1 11   IMAGE  EQU   0                                                      0000
 112  1 12   XXXX   EQU   0                                                      0000
 113  1 13   COUNT  EQU   IMAGE&7                                                0007
 114  1 14   LABADD EQU   IMAGE&61                                               0061
 115  1 15   SUPADD EQU   IMAGE&66                                               0066
 116  1 16   AOP    EQU   IMAGE&70                                               0070
 117  1 17   BOP    EQU   IMAGE&73                                               0073
 118  1 18   DMOD   EQU   IMAGE&74                                               0074
 119  1 19   TYPE   EQU   IMAGE&75                                               0075
 120  1 20   PRINT  EQU   200                                                    0200
 121  1 21   LIBRN  EQU   0                                                      0000
 122  1 22          ORG   87                                                          0087
 123  1 23   XR1    DCW   000                                                 3  0089                    4
 124  1 24          DC    00                                                  2  0091                    4
 125  1 25   XR2    DCW   000                                                 3  0094                    4
 126  1 26          DC    00                                                  2  0096                    4
 127  1 27   XR3    DCW   000                                                 3  0099                    4
 128  1 28          DC    00                                                  2  0101                    4
 129  1 29   *
 130  1 30   * INITIALIZATION ROUTIUNE
 131  1 31   *
 132  1 32          ORG   336                                                         0336
 133  1 33   ZONE   DCW   @2SKB@                                              4  0339                    5
 134  1 34   INITLZ RWD   OUTAPE                                              5  0340  U %U6 R           5
 135  1 35          C     OUTOPN,@2@                                          7  0345  C !00 P07         5
 136  1 36          BH    ENDJOB                                              5  0352  B !55 U           5
 137  1 37          C     OUTOPN,@7@                                          7  0357  C !00 P08         5
 138  1 38          BL    ENDJOB                                              5  0364  B !55 T           5
 139  1 39          RWD   4                                                   5  0369  U %U4 R           5
 140  1 40          RWD   INTAPE                                              5  0374  U %U5 R           6
 141  1 41          CW    LTAPSW,PNH4SW                                       7  0379  ) P25 P26         6
 142  1 42          MCW   SSOP,TSTSS                                          7  0386  M !01 475         6
 143  1 43   *
 144  1 44   * TEST FOR CTL CARD
 145  1 45   *
 146  1 46   READ4  MCW   @013@,LGTCK&6                                       7  0393  M P11 O58         6
 147  1 47          RT    4,1                                                 8  0400  M %U4 001 R       6

                          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  1 48          B     CHKLGT                                              4  0408  B O37             6
 149  1 49          BER   TPERR                                              5  0412  B M33 L           7
 150  1 50          C     18,@JOB@                                            7  0417  C 018 P14         7
 151  1 51          BU    CKCTL                                               5  0424  B 444 /           7
 152  1 52          MCW   79,IDENT#4                                         7  0429  M 079 P18         7
 153  1 53          CW    JOBSW#1                                             4  0436  ) P19             7
 154  1 54          B     READ4                                               4  0440  B 393             7
 155  1 55   CKCTL  C     18,@CTL@                                            7  0444  C 018 P22         7
 156  1 56          MCW   OUTOPN,23                                           7  0451  M !00 023         8
 157  1 57          RWD   4                                                   5  0458  U %U4 R           8
 158  1 58          BE    TSTSS                                               5  0463  B 475 S           8
 159  1 59          LCA   @33@,22                                            7  0468  L P24 022         8
 160  1 60   TSTSS  BSS   SENSW,F                                             5  0475  B 528 F           8
 161  1 61   TSTOP  BCE   LTAPOP,23,2                                         8  0480  B 591 023 2       8
 162  1 62          BCE   LTAPOP,23,3                                         8  0488  B 591 023 3       9
 163  1 63          BCE   LTAPOP,23,6                                         8  0496  B 591 023 6       9
 164  1 64          BCE   LTAPOP,23,7                                         8  0504  B 591 023 7       9
 165  1 65          SW    LTAPSW#1                                            4  0512  , P25             9
 166  1 66          B     START                                               4  0516  B '17             9
 167  1 67   *
 168  1 68   * OPTION TO PUNCH NEW SOURCE DECK
 169  1 69   *
 170  1 70   PNH4OP SW    PNH4SW#1                                            4  0520  , P26             9
 171  1 71          B     TSTLSW                                              4  0524  B '49            10
 172  1 72   *
 173  1 73   * TEST SENSE SWITCHES FOR OPTION
 174  1 74   *
 175  1 75   SENSW  LCA   @0@,23                                              7  0528  L P27 023         10
 176  1 76          BSS   ADD1,B                                              5  0535  B 558 B           10
 177  1 77   TSTSSC BSS   ADD2,C                                              5  0540  B 569 C           10
 178  1 78   TSTSSG BSS   ADD4,G                                              5  0545  B 580 G           10
 179  1 79   SSOUT  CW    23                                                  4  0550  ) 023             10
 180  1 80          B     TSTOP                                               4  0554  B 480             10
 181  1 81   ADD1   A     @1@,23                                              7  0558  A P28 023         11
 182  1 82          B     TSTSSC                                              4  0565  B 540             11
 183  1 83   ADD2   A     @2@,23                                              7  0569  A P07 023         11
 184  1 84          B     TSTSSG                                              4  0576  B 545             11
 185  1 85   ADD4   A     @4@,23                                              7  0580  A P29 023         11
 186  1 86          B     SSOUT                                               4  0587  B 550             11
 187  1 87   *
 188  1 88   * SET UP CLEAR STORAGE RECORD
 189  1 89   *
 190  1 90   LTAPOP CS    PUNCH&80                                            4  0591  / 180             11
 191  1 91          SW    GRPMRK                                              4  0595  , P06             12
 192  1 92          LCA   GRPMRK,PUNCH&99                                     7  0599  L P06 199         12
 193  1 93          LCA   IDENT,PUNCH&79                                     7  0606  L P18 179         12
 194  1 94          LCA   @  @                                               4  0613  L P31             12
 195  1 95          LCA   @B007@                                             4  0617  L P35             12
 196  1 96          LCA   @)021@                                             4  0621  L P39             12
 197  1 97          LCA   @B047L@                                            4  0625  L P44             12
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
198  1 98          LCA   @L%U1001R@                                  4  0629  L P52              13
199  1 99          LCA   @.@                                         4  0633  L P53              13
200  2 00          LCA   BSPTU1                                      4  0637  L O93              13
201  2 01   *
202  2 02   * TEST OBJECT CORE SIZE
203  2 03   *
204  2 04          C     22,@3@                                      7  0641  C 022 P54          13
205  2 05          BE    IS4K                                        5  0648  B 747 S            13
206  2 06          BH    IS4K                                        5  0653  B 747 U            13
207  2 07          C     22,@6@                                      7  0658  C 022 P55          13
208  2 08          BL    IS4K                                        5  0665  B 747 T            14
209  2 09          LCA   @IO?@,PUNCH&44                             7  0670  L P58 144          14
210  2 10          LCA   @099@                                       4  0677  L P61              14
211  2 11          LCA   @B053@                                      4  0681  L P65              14
212  2 12          LCA   @M0740990                                   4  0685  L P72              14
213  2 13          LCA   @)099@                                      4  0689  L P76              14
214  2 14          LCA   @B001/@                                     4  0693  L P81              14
215  2 15          LCA   @C004041@                                   4  0697  L P88              15
216  2 16          LCA   @#044004@                                   4  0701  L P95              15
217  2 17          LCA   @/I9I@                                      4  0705  L P99              15
218  2 18          BCE   BTSTRP,22,6                                 8  0709  B 842 022 6        15
219  2 19          BCE   IS12K,22,5                                  8  0717  B 736 022 5        15
220  2 20          MZ    ZONE-2,PUNCH&4                              7  0725  Y 337 104          15
221  2 21          B     BTSTRP                                      4  0732  B 842              15
222  2 22   IS12K  MZ    ZONE-1,PUNCH&4                              7  0736  Y 338 104          16
223  2 23          B     BTSTRP                                      4  0743  B 842              16
224  2 24   IS4K   LCA   @IO@,PUNCH&75                              7  0747  L Q01 175          16
225  2 25          LCA   @B053@,PUNCH&46                             7  0754  L P65 146          16
226  2 26          LCA   @M080990                                    4  0761  L Q08              16
227  2 27          LCA   @)099@                                      4  0765  L P76              16
228  2 28          LCA   @B001@                                      4  0769  L Q12              16
229  2 29          LCA   @B03200200                                  4  0773  L Q20              17
230  2 30          LCA   @)002@                                      4  0777  L Q24              17
231  2 31          LCA   @A075003@                                   4  0781  L Q31              17
232  2 32          LCA   @,002@                                      4  0785  L Q35              17
233  2 33          LCA   @/I99@                                      4  0789  L Q39              17
234  2 34          SW    PUNCH&80                                    4  0793  , 180              17
235  2 35          BCE   BTSTRP,22,3                                 8  0797  B 842 022 3        17
236  2 36          MCW   @Z@,PUNCH&2                                7  0805  M Q40 102          18
237  2 37          BCE   BTSTRP,22,2                                 8  0812  B 842 022 2        18
238  2 38          MCW   @T@,PUNCH&2                                7  0820  M Q41 102          18
239  2 39          BCE   BTSTRP,22,1                                 8  0827  B 842 022 1        18
240  2 40          MCW   @I@,PUNCH&2                                7  0835  M Q42 102          18
241  2 41   *
242  2 42   * SET UP BOOTSTRAP PROGRAM
243  2 43   *
244  2 44   BTSTRP B     WRITE1                                      4  0842  B !30              19
245  2 45          CW    PUNCH&99                                    4  0846  ) 199              19
246  2 46          LCA   GRPMRK,PUNCH&80                             7  0850  L P06 180          19
247  2 47          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  2 48          LCA   @.020@                                     4  0864  L Q47              19
249  2 49          LCA   BER1                                        4  0868  L O80              19
250  2 50          LCA   RDREC                                      4  0872  L O88              19
251  2 51          LCA   @.@                                         4  0876  L P53              20
252  2 52          LCA   BSPTU1                                      4  0880  L O93              20
253  2 53          B     WRITE1                                      4  0884  B !30              20
254  2 54          CS    PUNCH&75                                    4  0888  / 175              20
255  2 55          LCA   @ @,PUNCH&35                               7  0892  L Q43 135          20
256  2 56          LCA   @B007@                                      4  0899  L P35              20
257  2 57          LCA   @N000@                                      4  0903  L Q51              20
258  2 58          LCA   @L      @                                   4  0907  L Q58              21
259  2 59          LCA   BER1                                        4  0911  L O80              21
260  2 60          LCA   RDREC                                      4  0915  L O88              21
261  2 61          LCA   @.@                                         4  0919  L P53              21
262  2 62          LCA   BSPTU1                                      4  0923  L O93              21
263  2 63   *
264  2 64   * TEST PROCESSOR CORE SIZE
265  2 65   *
266  2 66          C     21,@3@                                      7  0927  C 021 P54          21
267  2 67          BE    START                                       5  0934  B '17 S            21
268  2 68          BH    START                                       5  0939  B '17 U            22
269  2 69          C     21,@6@                                      7  0944  C 021 P55          22
270  2 70          BL    START                                       5  0951  B '17 T            22
271  2 71          MN    21,SAVEZN#1                                 7  0956  D 021 Q59          22
272  2 72          A     &3,SAVEZN                                   7  0963  A Q60 Q59          22
273  2 73          MN    SAVEZN,*&4                                  7  0970  D Q59 980          22
274  2 74          MZ    ZONE,*&7                                    7  0977  Y 339 990          23
275  2 75          LCA   GRPMRK,GRPMRK                               7  0984  L P06 P06          23
276  2 76          CW    GRPMRK                                      4  0991  ) P06              23
277  2 77          MCW   @4000,KBLKNG                               7  0995  M Q63 P01          23
278  2 78          BCE   START,21,4                                  8  1002  B '17 021 4        23
279  2 79          A     @4000,KBLKNG                                7  1010  A Q63 P01          24
280  2 80   *
281  2 81   * SET PARAMETERS
282  2 82   *
283  2 83   START  BCE   PNH4OP,23,4                                 8  1017  B 520 023 4        24
284  2 84          BCE   PNH4OP,23,5                                 8  1025  B 520 023 5        24
285  2 85          BCE   PNH4OP,23,6                                 8  1033  B 520 023 6        24
286  2 86          BCE   PNH4OP,23,7                                 8  1041  B 520 023 7        24
287  2 87   TSTLSW BW    EOJOB,LTAPSW                                8  1049  V X81 P25 1        25
288  2 88          MCW   KBLKNG,BLKCT                                7  1057  M P01 P04          25
289  2 89          CS    80                                          4  1064  / 080              25
290  2 90          BW    SETINP,JOBSW                                8  1068  V '84 P19 1        25
291  2 91          RT    INTAPE,INPUT                                8  1076  M %U5 ?28 R        25
292  2 92   SETINP SW    IMAGE&23,IMAGE&57                           7  1084  , 023 057          26
293  2 93          SW    IMAGE&62,IMAGE&67                           7  1091  , 062 067          26
294  2 94          SW    IMAGE&68,IMAGE&71                           7  1098  , 068 071          26
295  2 95          SW    IMAGE&74,IMAGE&6                            7  1105  , 074 006          26
296  2 96          SW    IMAGE&1                                     4  1112  , 001              26
297  2 97          B     GET                                         4  1116  B !76              26
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SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
298  2 98   *
299  2 99   * ANALYZE RECORD TYPE
300  3 00   *
301  3 01   ANALYZ BCE   BYPASS,TYPE,%                                  8  1120  B J59 075 %         27
302  3 02          BM    BYPASS,IMAGE&5                                8  1128  V J59 005 K         27
303  3 03          BCE   INSTR,TYPE,                                   8  1136  B S22 075           27
304  3 04          BCE   DOJOB,TYPE,I                                  8  1144  B S11 075 I         27
305  3 05          MN    TYPE,XR2                                      7  1152  D 075 094           27
306  3 06          A     XR2                                           4  1159  A 094               28
307  3 07          A     XR2                                           4  1163  A 094               28
308  3 08          B     *&1&X2                                        4  1167  B /P1               28
309  3 09          B     DA                                            4  1171  B V85               28
310  3 10          B     CONST                                         4  1175  B S65               28
311  3 11          B     DSA                                           4  1179  B V59               28
312  3 12          B     EXEND                                         4  1183  B W82               28
313  3 13          B     BYPASS                                        4  1187  B J59               29
314  3 14          B     BYPASS                                        4  1191  B J59               29
315  3 15          B     BYPASS                                        4  1195  B J59               29
316  3 16          B     BYPASS                                        4  1199  B J59               29
317  3 17          B     XTRA                                          4  1203  B V34               29
318  3 18          B     BYPASS                                        4  1207  B J59               29
319  3 19   DOJOB  MCW   IMAGE&20,PUNCH&79                            7  1211  M 020 179           29
320  3 20          B     BYPASS                                        4  1218  B J59               30
321  3 21   *
322  3 22   * PROCESS INSTRUCTIONS
323  3 23   *
324  3 24   INSTR  MCW   DMOD,PUNCH&42                                 7  1222  M 074 142           30
325  3 25          MCW                                                 1  1229  M                   30
326  3 26          MCW                                                 1  1230  M                   30
327  3 27          MCW                                                 1  1231  M                   30
328  3 28          MCW   LABADD,CNVADD                                 7  1232  M 061 ?01           30
329  3 29          A     COUNT,CNVADD                                  7  1239  A 007 ?01           30
330  3 30          S     @1@,CNVADD                                    7  1246  S P28 ?01           31
331  3 31   INSTXT B     SETLOC                                        4  1253  B J67               31
332  3 32          B     WRITE2                                        4  1257  B K64               31
333  3 33          B     BYPASS                                        4  1261  B J59               31
334  3 34   *
335  3 35   * PROCESS CONSTANTS
336  3 36   *
337  3 37   CONST  A     @00@,COUNT                                    7  1265  A Q65 007           31
338  3 38          C     COUNT,@00@                                    7  1272  C 007 Q65           31
339  3 39          BL    *&5                                           5  1279  B S88 T             31
340  3 40          B     BYPASS                                        4  1284  B J59               32
341  3 41          BCE   PCHCON,IMAGE&23,#                            8  1288  B T44 023 #         32
342  3 42          BWZ   PCHCON,IMAGE&4,B                             8  1296  V T44 004 B         32
343  3 43          MCW   IMAGE&53,HOLDDT-22                          7  1304  M 053 R26           32
344  3 44          BCE   ALPHA,IMAGE&23,@                            8  1311  B T23 023 @         32
345  3 45          B     PCHCON                                        4  1319  B T44               32
346  3 46   ALPHA  MCW   &HOLDDT-51,XR1                               7  1323  M Q68 089           33
347  3 47          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  3 48          MCW   BLANK1#1,XXXX&X1                            7  1337  M Q69 0'0           33
349  3 49   PCHCON MCW   HOLDDT-20,PUNCH&66                          7  1344  M R28 166           33
350  3 50          MCW   LABADD,CNVADD                               7  1351  M 061 ?01           33
351  3 51          C     COUNT,@32@                                  7  1358  C 007 Q71           34
352  3 52          BL    LARGE                                       5  1365  B T82 T             34
353  3 53          BCE   PRODC,TYPE,A                                8  1370  B U47 075 A         34
354  3 54          B     INSTXT                                      4  1378  B S53               34
355  3 55   *
356  3 56   * CONSTANTS LARGER THAN 32 CHARACTERS
357  3 57   *
358  3 58   LARGE  S     @32@,COUNT                                  7  1382  S Q71 007           34
359  3 59          S     COUNT,CNVADD                                7  1389  S 007 ?01           34
360  3 60          MCW   COUNT,HOLDCT#2                              7  1396  M 007 Q73           35
361  3 61          MCW   @32@,COUNT                                  7  1403  M Q71 007           35
362  3 62          B     SETLOC                                      4  1410  B J67               35
363  3 63          BCE   LRGDC,TYPE,A                                8  1414  B U94 075 A         35
364  3 64   LRGXT  MCW   HOLDCT,COUNT                                7  1422  M Q73 007           35
365  3 65          MCW   HOLDDT,TEMP#20                             7  1429  M R48 Q93           36
366  3 66          B     WRITE2                                      4  1436  B K64               36
367  3 67          MCW   TEMP,PUNCH&54                              7  1440  M Q93 154           36
368  3 68   *
369  3 69   * PROCESS DC
370  3 70   *
371  3 71   PRODC  MCW   LABADD,CNVADD                               7  1447  M 061 ?01           36
372  3 72          S     COUNT,CNVADD                                7  1454  S 007 ?01           36
373  3 73          A     @1@,CNVADD                                  7  1461  A P28 ?01           36
374  3 74          B     CNVRT                                       4  1468  B K11               37
375  3 75          MCW   CNVWK,PUNCH&30                             7  1472  M ?04 130           37
376  3 76          MCW   @)@                                         4  1479  M Q94               37
377  3 77          MCW   LABADD,CNVADD                               7  1483  M 061 ?01           37
378  3 78          B     INSTXT                                      4  1490  B S53               37
379  3 79   *
380  3 80   * DC GREATER THAN 32 CHARACTERS
381  3 81   *
382  3 82   LRGDC  MCW   LABADD,CNVADD                               7  1494  M 061 ?01           37
383  3 83          S     HOLDCT,CNVADD                               7  1501  S Q73 ?01           38
384  3 84          S     @31@,CNVADD                                 7  1508  S Q96 ?01           38
385  3 85          B     CNVRT                                       4  1515  B K11               38
386  3 86          MCW   CNVWK,PUNCH&30                             7  1519  M ?04 130           38
387  3 87          MCW   @)@                                         4  1526  M Q94               38
388  3 88          B     LRGXT                                       4  1530  B U22               38
389  3 89   *
390  3 90   * EXTRA CONSTANT FOR CONSTANT OVER 32 CHARACTERS
391  3 91   *
392  3 92   XTRA   BCE   BYPASS,IMAGE&21,                            8  1534  B J59 021           39
393  3 93          MCW   IMAGE&73,HOLDDT#52                          7  1542  M 073 R48           39
394  3 94          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  3 95       B     BYPASS                                    4  1555  B J59               40
402  3 96  *
403  3 97  * PROCESS DSA
404  3 98  *
405  3 99  DSA    MCW   BOP,PUNCH&37                            7  1559  M 073 137           40
406  4 00         BCE   PRODC,TYPE,B                            8  1566  B U47 075 B         40
407  4 01         MCW   LABADD,CNVADD                           7  1574  M 061 ?01           40
408  4 02         B     INSTXT                                  4  1581  B S53               40
409  4 03  *
410  4 04  * PROCESS DEFINE AREA
411  4 05  *
412  4 06  DA     BCE   BYPASS,TYPE,!                           8  1585  B J59 075 !         40
413  4 07         BCE   HEADER,TYPE,0                           8  1593  B W24 075 0         41
414  4 08  *
415  4 09  * FIELD, FIELD REPEAT
416  4 10  *
417  4 11  FIELD  MCW   SUPADD,CNVADD                           7  1601  M 066 ?01           41
418  4 12         B     DARTN                                   4  1608  B W47               41
419  4 13         BCE   FIELD,TYPE,'                            8  1612  B W01 075 '         41
420  4 14         B     ANALYZ                                  4  1620  B /20               41
421  4 15  *
422  4 16  * HEADER, HEADER REPEAT
423  4 17  *
424  4 18  HEADER MCW   LABADD,CNVADD                           7  1624  M 061 ?01           41
425  4 19         B     DARTN                                   4  1631  B W47               42
426  4 20         BCE   HEADER,TYPE,'                           8  1635  B W24 075 '         42
427  4 21         B     ANALYZ                                  4  1643  B /20               42
428  4 22  *
429  4 23  * DA SUBROUTINE
430  4 24  *
431  4 25  DARTN  SBR   DAXT&3                                  4  1647  H W81               42
432  4 26         B     CNVRT                                   4  1651  B K11               42
433  4 27         MCW   CNVWK,PUNCH&26                          7  1655  M ?04 126           42
434  4 28         MCW   CNVWK                                   4  1662  M ?04               42
435  4 29         MCW   @,@                                     4  1666  M R49               43
436  4 30         B     WRITE2                                  4  1670  B K64               43
437  4 31         B     GET                                     4  1674  B !76               43
438  4 32  DAXT   B     XXXX                                    4  1678  B 000               43
439  4 33  *
440  4 34  * PROCESS EX, END
441  4 35  *
442  4 36  EXEND  BCE   END,TYPE,3                             8  1682  B X58 075 3         43
443  4 37         MCW   AOP,PUNCH&30                            7  1690  M 070 130           43
444  4 38         MCW   @B@                                     4  1697  M R50               43
445  4 39         MCW   @N000000@                               4  1701  M R57               44
446  4 40         B     WRITE2                                  4  1705  B K64               44
447  4 41         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  4 42         LCA   @B007@                                  4  1716  L P35               44
449  4 43         B     GET                                     4  1720  B !76               44
450  4 44         BCE   ISJOB,TYPE,I                           8  1724  B X47 075 I         44
451  4 45  COMPAT B     WRITE1                                  4  1732  B !30               44
452  4 46         LCA   @L      @,PUNCH&26                      7  1736  L R64 126           45
453  4 47         B     ANALYZ                                  4  1743  B /20               45
454  4 48  ISJOB  MCW   IMAGE&20,PUNCH&79                      7  1747  M 020 179           45
455  4 49         B     COMPAT                                  4  1754  B X32               45
456  4 50  *
457  4 51  * END
458  4 52  *
459  4 53  END    MCW   @/   080@,PUNCH&26                      7  1758  M R71 126           45
460  4 54         MCW   AOP,PUNCH&23                            7  1765  M 070 123           45
461  4 55         B     WRITE2                                  4  1772  B K64               46
462  4 56         WTM   OUTAPE                                  5  1776  U %U6 M             46
463  4 57  EOJOB  BW    PUNCH4,PNH4SW                           8  1781  V X93 P26 1         46
464  4 58         B     ENDJOB                                  4  1789  B !55               46
465  4 59  *
466  4 60  * PUNCH NEW SOURCE DECK
467  4 61  *
468  4 62  PUNCH4 CS    PUNCH&80                                4  1793  / 180               46
469  4 63         MCW   @113@,LGTCK&6                           7  1797  M R74 O58           46
470  4 64         RT    4,PUNCH&1                               8  1804  M %U4 101 R         47
471  4 65         B     CHKLGT                                  4  1812  B O37               47
472  4 66         BER   TPERR                                   5  1816  B M33 L             47
473  4 67         BCE   DOLTO,PUNCH&75,L                       8  1821  B Z54 175 L         47
474  4 68         BCE   PUNCH4,PUNCH&75,S                       8  1829  B X93 175 S         47
475  4 69         BCE   PUNCH4,PUNCH&75,C                       8  1837  B X93 175 C         48
476  4 70         BCE   PUNCH4,PUNCH&75,Z                       8  1845  B X93 175 Z         48
477  4 71         BCE   PUNCH4,PUNCH&75,Y                       8  1853  B X93 175 Y         48
478  4 72  BUMP   A     &1,SEQCT-1                              7  1861  A R75 O97           48
479  4 73         MCW   SEQCT,PUNCH&5                          7  1868  M O98 105           48
480  4 74         BCE   DOPCH,PUNCH&6,*                         8  1875  B Z13 106 *         49
481  4 75         MCW   BLANK4#4,PUNCH&15                      7  1883  M R79 115           49
482  4 76         C     PUNCH&18,@JOB@                          7  1890  C 118 P14           49
483  4 77         BU    DOPCH                                   5  1897  B Z13 /             49
484  4 78         MCW   BLANK4,PUNCH&11                        7  1902  M R79 111           49
485  4 79         MCW   BLANK4-2                               4  1909  M R77               49
486  4 80  DOPCH  MCW   BLANK4-1,PUNCH&75                      7  1913  M R78 175           50
487  4 81         P                                             1  1920  4                   50
488  4 82         SS    4                                       2  1921  K 4                 50
489  4 83         C     PUNCH&18,@END@                          7  1923  C 118 R82           50
490  4 84         BU    PUNCH4                                  5  1930  B X93 /             50
491  4 85         BCE   PUNCH4,PUNCH&6,*                       8  1935  B X93 106 *         50
492  4 86         CS    PUNCH&80                                4  1943  / 180               50
493  4 87         P                                             1  1947  4                   51
494  4 88         SS    8                                       2  1948  K 8                 51
495  4 89         B     ENDJOB                                  4  1950  B !55               51
496  4 90  DOLTO  MCW   @LTORG@,PUNCH&20                       7  1954  M R87 120           51
497  4 91         B     BUMP                                    4  1961  B Y61               51
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SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD

498  4 92           DCW   @ @                                           1  1965                    51
499  4 93   ENDF1   DCW   @}@                                          1  1966              GMARK 51
500  4 94           XFR   LIBRN                                               B 000               52
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SEQ PG LIN  LABEL  OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD

501  4 95           JOB   1401 AUTOCODER-PASS 8-LOAD TAPE-LEFT MAIN -VERSION 3
502  4 96           ORG   2000                                                 2000
503  4 97   OUTOPN  DCW   @ @                                           1  2000                    55
504  4 98   SSOP    DCW   @B@                                          1  2001                    55
505  4 99           RTW   1,1                                           8  2002  L %U1 001 R       55
506  5 00           NOP   XXXX                                          4  2010  N 000             55
507  5 01           BER   TPERR                                         5  2014  B M33 L           55
508  5 02           CW    ENDF1,ENDF2                                   7  2019  ) Z66 I98         55
509  5 03           B     INITLZ                                        4  2026  B 340             55
510  5 04   *
511  5 05   * WRITE CLEAR STORAGE AND BOOTSTRAP
512  5 06   *
513  5 07   WRITE1  SBR   WT1XT&3                                       4  2030  H !54             56
514  5 08           WTW   OUTAPE,OUTPUT                                 8  2034  L %U6 101 W       56
515  5 09           NOP   XXXX                                          4  2042  N 000             56
516  5 10           BER   TPERR                                         5  2046  B M33 L           56
517  5 11   WT1XT   B     XXXX                                          4  2051  B 000             56
518  5 12   *
519  5 13   * GO BACK TO PASS E FOR EXTRA OUTPUT
520  5 14   *
521  5 15   ENDJOB  RTW   1,333                                         8  2055  L %U1 333 R       56
522  5 16           NOP   XXXX                                          4  2063  N 000             56
523  5 17           BER   TPERR                                         5  2067  B M33 L           57
524  5 18           B     MESSAG                                        4  2072  B 333             57
525  5 19   *
526  5 20   * RETRIEVE INPUT RECORD
527  5 21   *
528  5 22   GET     SBR   GETXT&3                                       4  2076  H J58             57
529  5 23           C     BLKCT,KBLKNG                                  7  2080  C P04 P01         57
530  5 24           BU    NXTREC                                        5  2087  B J20 /           57
531  5 25           S     HOLDA                                         4  2092  S P05             57
532  5 26           MCW   &INPUT&13,LGTCK&6                            7  2096  M R90 O58         57
533  5 27           RT    INTAPE,INPUT                                  8  2103  M %U5 ?28 R       58
534  5 28           B     CHKLGT                                        4  2111  B O37             58
535  5 29           BER   TPERR                                         5  2115  B M33 L           58
536  5 30   NXTREC  A     &80,BLKCT                                     7  2120  A R92 P04         58
537  5 31           MCW   BLKCT,XR3                                     7  2127  M P04 099         58
538  5 32           MCW   INPUT-1&X3,IMAGE&80                           7  2134  M ?B7 080         58
539  5 33           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  5 34           S     XR3&1                                         4  2149  S 100             60
549  5 35           S                                                   1  2153  S                 60
550  5 36           S                                                   1  2154  S                 60
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
551  5 37   GETXT  B     XXXX                                          4  2155  B 000              60
552  5 38   *
553  5 39   * DO NEXT RECORD
554  5 40   *
555  5 41   BYPASS B     GET                                           4  2159  B !76              60
556  5 42          B     ANALYZ                                        4  2163  B /20              60
557  5 43   *
558  5 44   * SET ADDRESSES IN OUTPUT
559  5 45   *
560  5 46   SETLOC SBR   LOCXT&3                                       4  2167  H K10              60
561  5 47          B     CNVRT                                         4  2171  B K11              61
562  5 48          MCW   CNVWK,PUNCH&26                                7  2175  M ?04 126          61
563  5 49          ZA    &34,CNVADD                                    7  2182  ? R94 ?01          61
564  5 50          A     COUNT,CNVADD                                  7  2189  A 007 ?01          61
565  5 51          B     CNVRT                                         4  2196  B K11              61
566  5 52          MCW   CNVWK,PUNCH&23                                7  2200  M ?04 123          61
567  5 53   LOCXT  B     XXXX                                          4  2207  B 000              62
568  5 54   *
569  5 55   * CONVERT 5 TO 3 DIGIT ADDRESS
570  5 56   *
571  5 57   CNVRT  SBR   CNVXT&3                                       4  2211  H K63              62
572  5 58          BAV   *&1                                           5  2215  B K20 Z            62
573  5 59   ADDAGN A     &96,CNVADD-3                                  7  2220  A R96 R98          62
574  5 60          BAV   ADDAGN                                        5  2227  B K20 Z            62
575  5 61          MZ    CNVADD-4,CNVADD#5                             7  2232  Y R97 ?01          62
576  5 62          MN    CNVADD-3,*&4                                  7  2239  D R98 K49          62
577  5 63          MZ    ZONE,CNVADD-2                                 7  2246  Y 339 R99          63
578  5 64          MCW   CNVADD,CNVWK#3                                7  2253  M ?01 ?04          63
579  5 65   CNVXT  B     XXXX                                          4  2260  B 000              63
580  5 66   *
581  5 67   * WRITE OUTPUT RECORDS
582  5 68   *
583  5 69   WRITE2 SBR   WT2XT&3                                       4  2264  H L30              63
584  5 70          BCE   DOGM,PUNCH&35,}                              8  2268  B L31 135 } GMARK  63
585  5 71          WTW   OUTAPE,OUTPUT&19                              8  2276  L %U6 120 W        63
586  5 72          NOP   XXXX                                          4  2284  N 000              64
587  5 73          BER   TPERR                                         5  2288  B M33 L            64
588  5 74          NOP                                                 1  2293  N                  64
589  5 75   CLEAR  MCW   BLANK1,PUNCH&75                              7  2294  M Q69 175          64
590  5 76          MCW   PUNCH&75                                      4  2301  M 175              64
591  5 77          MCW   BLANK1,HOLDDT                                 7  2305  M Q69 R48          64
592  5 78          MCW   HOLDDT                                        4  2312  M R48              64
593  5 79          MCW   @N000@,PUNCH&30                               7  2316  M Q51 130          65
594  5 80          MCW   @L      @                                    4  2323  M ?11              65
595  5 81   WT2XT  B     XXXX                                          4  2327  B 000              65
596  5 82   DOGM   CS    299                                           4  2331  / 299              65
597  5 83          LCA   PUNCH&80,280                                  7  2335  L 180 280          65
598  5 84          LCA                                                 1  2342  L                  65
599  5 85          MCW   PUNCH&66,274                                  7  2343  M 166 274          65
600  5 86          LCA   @ @                                           4  2350  L Q43              66
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
601  5 87          LCA   @B007@                                      4  2354  L P35              66
602  5 88          LCA   @)043043@                                   4  2358  L ?18              66
603  5 89          LCA   PUNCH&26                                     4  2362  L 126              66
604  5 90          LCA   @,043@                                      4  2366  L ?22              66
605  5 91          SW    225,235                                       7  2370  , 225 235          66
606  5 92          A     &8,227                                        7  2377  A ?23 227          66
607  5 93          CW    225                                           4  2384  ) 225              67
608  5 94          BCE   WTGM,PUNCH&27,N                               8  2388  B M03 127 N        67
609  5 95          MCW   PUNCH&30,237                                  7  2396  M 130 237          67
610  5 96   WTGM   CW    235                                           4  2403  ) 235              67
611  5 97          WTW   OUTAPE,220                                   8  2407  L %U6 220 W        67
612  5 98          NOP   XXXX                                          4  2415  N 000              67
613  5 99          BER   TPERR                                         5  2419  B M33 L            68
614  6 00          NOP                                                 1  2424  N                  68
615  6 01          CW    280                                           4  2425  ) 280              68
616  6 02          B     CLEAR                                         4  2429  B K94              68
617  6 03   *
618  6 04   * TAPE REDUNDANCY ROUTINE
619  6 05   *
620  6 06   TPERR  SBR   XR2                                           4  2433  H 094              68
621  6 07          SBR   REDXT&3                                       4  2437  H N05              68
622  6 08          MZ    &9,XR2                                        7  2441  Y ?24 094          68
623  6 09          MCW   4000-10&X2,TPINST&7                          7  2448  M IR0 M96          69
624  6 10          MN    TPINST&3,BSP1&3                               7  2455  D M92 M72          69
625  6 11          MCW   TPINST&7,INST2&7                             7  2462  M M96 O05          69
626  6 12   BSP1   BSP   INITAP                                       5  2469  U %U0 B            69
627  6 13          BCE   WRTRED,TPINST&7,W                            8  2474  B N78 M96 W        69
628  6 14          MCW   &9,READCT#1                                   7  2482  M ?24 ?25          70
629  6 15   TPINST RT    INITAP,XXXX                                   8  2489  M %U0 000 R        70
630  6 16          BER   RDRERR                                        5  2497  B N06 L            70
631  6 17   REDXT  B     XXXX                                          4  2502  B 000              70
632  6 18   RDRERR MN    TPINST&3,BSP2&3                               7  2506  D M92 N16          70
633  6 19   BSP2   BSP   INITAP                                       5  2513  U %U0 B            70
634  6 20          S     &1,READCT                                     7  2518  S R75 ?25          71
635  6 21          BWZ   TPINST,READCT,B                              8  2525  V M89 ?25 B        71
636  6 22          MN    TPINST&3,TPHALT&6                             7  2533  D M92 N46          71
637  6 23   TPHALT H     XXXX,890                                      7  2540  . 000 890          71
638  6 24          MCW   TPINST&7,*&8                                  7  2547  M M96 N61          71
639  6 25          RT    INITAP,XXXX                                   8  2554  M %U0 000 R        72
640  6 26          BSS   BSP1,E                                       5  2562  B M69 E            72
641  6 27          H     XXXX,811                                      7  2567  . 000 811          72
642  6 28          B     REDXT                                         4  2574  B N02              72
643  6 29   WRTRED SKP   1                                             5  2578  U %U1 E            72
644  6 30          BCE   SUBCTR,WRTCTR-1,5                            8  2583  B O15 ?26 5        72
645  6 31          A     &1,WRTCTR#2                                   7  2591  A R75 ?27          73
646  6 32   INST2  WT    INITAP,XXXX                                   8  2598  M %U0 000 W        73
647  6 33          BER   BSP1                                          5  2606  B M69 L            73
648  6 34          B     REDXT                                         4  2611  B N02              73
649  6 35   SUBCTR S     WRTCTR                                        4  2615  S ?27              73
650  6 36          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  6 37           H     XXXX,860                                    7  2626  . 000 860          74
652  6 38           B     INST2                                       4  2633  B N98              74
653  6 39   *
654  6 40   * CHECK FOR SHORT RECORDS
655  6 41   *
656  6 42   CHKLGT SBR   XR2                                         4  2637  H 094              74
657  6 43          SBR   LGTXT&3                                     4  2641  H O75              74
658  6 44          MZ    &9,XR2                                      7  2645  Y ?24 094          74
659  6 45   LGTCK  BCE   4000-12&X2,XXXX,}                           8  2652  B IQ8 000 } GMARK  74
660  6 46          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  6 47   LGTXT  B     XXXX                                        4  2672  B 000              76
674  6 48   BER1   DCW   @B001L@                                    5  2680                     76
675  6 49   RDREC  DCW   @L%U102OR@                                 8  2688                     76
676  6 50   BSPTU1 DCW   @U%U1B@                                    5  2693                     77
677  6 51   SEQCT  DCW   @0100 @                                    5  2698                     77
678  6 52   KBLKNG DCW   080                                       3  2701                     77
679  6 53   HOLDA  DCW   &0000                                      4  2705                     77
680  6 54   BLKCT  EQU   HOLDA-1                                      2704
681  6 55   GRPMRK DC    @}@                                         1  2706                GMARK  77
682  6 56          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  6 57   *
684  6 58   * INPUT AREA
685  6 59   *
686  6 60   INPUT   EQU   *&1                                              3028
687  6 61   ENDF2   EQU   3998                                             3998
688  6 62   3998    DCW   @}@                                           1  3998              GMARK   91
689  6 63           XFR   LIBRN                                                 B 000               92
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD

690  6 64           JOB   1401 AUTOCODER-PASS 8 EXTRA OUTPUT OVERLAY-VERSION 3
691  6 65           ORG   333                                                   0333
692  6 66   *
693  6 67   * PRINT END OF JOB MESSAGES
694  6 68   *
695  6 69   MESSAG  CC    1                                             2  0333  F 1                 95
696  6 70           CS    332                                           4  0335  / 332               95
697  6 71           CS                                                  1  0339  /                   95
698  6 72           MCW   @END OF ASSEMBLY@,PRINT&15                    7  0340  M 696 215           95
699  6 73           W                                                   1  0347  2                   95
700  6 74           CC    K                                             2  0348  F K                 95
701  6 75           MCW   @IF EXTRA OUTPUT DESIRED, SET SENSE@,PRINT&34 7  0350  M 730 234           95
702  6 76           MCW   @SWITCH F ON, AND@, PRINT&51                  7  0357  M 746 251           96
703  6 77           W                                                   1  0364  2                   96
704  6 78           CC    J                                             2  0365  F J                 96
705  6 79           CS    PRINT&71                                      4  0367  / 271               96
706  6 80           MCW   @B ON FOR CONDENSED CARDS@,PRINT&24            7  0371  M 770 224           96
707  6 81           W                                                   1  0378  2                   96
708  6 82           MCW   @C ON FOR LOADABLE TAPE 6@,PRINT&24            7  0379  M 794 224           96
709  6 83           W                                                   1  0386  2                   97
710  6 84           MCW   @D ON FOR LISTING TAPE  3@,PRINT&24           7  0387  M 818 224           97
711  6 85           W                                                   1  0394  2                   97
712  6 86           MCW   @E ON TO SUPPRESS LISTING@,PRINT&24           7  0395  M 842 224           97
713  6 87           W                                                   1  0402  2                   97
714  6 88           MCW   @G ON FOR NEW SOURCE DECK@,PRINT&24           7  0403  M 866 224           97
715  6 89           W                                                   1  0410  2                   97
716  6 90           CC    J                                             2  0411  F J                 98
717  6 91           CS    PRINT&24                                      4  0413  / 224               98
718  6 92           MCW   @AND PRESS START@,PRINT&15                   7  0417  M 881 215           98
719  6 93           W                                                   1  0424  2                   98
720  6 94           CC    K                                             2  0425  F K                 98
721  6 95           MCW   @IF NO EXTRA OUTPUT DESIRED, PRESS START@,PRINT&39 7  0427  M 920 239     98
722  6 96           W                                                   1  0434  2                   98
723  6 97           CC    1                                             2  0435  F 1                 99
724  6 98           CW    GRPMRK                                        4  0437  ) P06               99
725  6 99           H     XXXX,880                                      7  0441  . 000 880           99
726  7 00           BSS   GOTOE,F                                       5  0448  B 530 F             99
727  7 01           CS    PRINT&39                                      4  0453  / 239               99
728  7 02           MCW   @END OF JOB@,PRINT&10                        7  0457  M 930 210           99
729  7 03           W                                                   1  0464  2                   99
730  7 04           CC    K                                             2  0465  F K                100
731  7 05           MCW   @INPUT FOR RE-ASSEMBLY ON TAPE UNIT 4@,PRINT&36 7  0467  M 966 236       100
732  7 06           W                                                   1  0474  2                  100
733  7 07           RWD   1                                             5  0475  U %U1 R            100
734  7 08           RWD   4                                             5  0480  U %U4 R            100
735  7 09           RWD   5                                             5  0485  U %U5 R            100
736  7 10           RWD   6                                             5  0490  U %U6 R            100
737  7 11           BW    FINAL,LTAPSW                                  8  0495  V 517 P25 1        101
738  7 12           CS    236                                           4  0503  / 236              101
739  7 13           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  7 14           CC    K                                             2  0514  F K               101
741  7 15           W                                                   1  0516  2                 101
742  7 16   FINAL   CC    1                                             2  0517  F 1               101
743  7 17           H     XXXX,889                                      7  0519  . 000 889         101
744  7 18           B     FINAL&2                                       4  0526  B 519             102
745  7 19   GOTOE   CW    ENDF2,ENDF3                                   7  0530  ) I98 998         102
746  7 20           CW    INPUT&80                                      4  0537  ) A08             102
747  7 21           CS    PUNCH&99                                      4  0541  / 199             102
748  7 22           BSP   1                                             5  0545  U %U1 B           102
749  7 23           BSP   1                                             5  0550  U %U1 B           102
750  7 24           BSP   1                                             5  0555  U %U1 B           102
751  7 25           BSP   1                                             5  0560  U %U1 B           103
752  7 26           BSP   1                                             5  0565  U %U1 B           103
753  7 27           BSP   1                                             5  0570  U %U1 B           103
754  7 28           BSP   1                                             5  0575  U %U1 B           103
755  7 29           BSP   1                                             5  0580  U %U1 B           103
756  7 30           RTW   1,PASSE                                       8  0585  L %U1 Z00 R       103
757  7 31           BER   TPERR2                                        5  0593  B 602 L           103
758  7 32           B     PASSE&1                                       4  0598  B Z01             104
759  7 33   TPERR2  MCW   &9,READC#1                                    7  0602  M 995 996         104
760  7 34           BSP   1                                             5  0609  U %U1 B           104
761  7 35   RETRY   RTW   1,PASSE                                       8  0614  L %U1 Z00 R       104
762  7 36           BER   AGAIN                                         5  0622  B 631 L           104
763  7 37           B     PASSE&1                                       4  0627  B Z01             104
764  7 38   AGAIN   BSP   1                                             5  0631  U %U1 B           104
765  7 39           S     &1,READC                                      7  0636  S 997 996         105
766  7 40           BWZ   RETRY,READC,B                                8  0643  V 614 996 B       105
767  7 41           H     XXXX,891                                      7  0651  . 000 891         105
768  7 42           RTW   1,PASSE                                       8  0658  L %U1 Z00 R       105
769  7 43           BSS   TPERR2,E                                      5  0666  B 602 E           105
770  7 44           H     XXXX,812                                      7  0671  . 000 812         106
771  7 45           B     PASSE&1                                       4  0678  B Z01             106
772  7 46           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  7 47   ENDF3   DCW   @)@                                           1  0998            GMARK 117
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD

774  7 48   PASSE   EQU   1900                                              1900
775  7 49           EX    LIBRN                                                   B 000             118
776  7 50           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