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

                          1401 AUTOCODER-PASS 7-LIST,CONDNS-INITL 1 -VERSION 3       3771L               PAGE    1

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

 101  1 01   000    JOB   1401 AUTOCODER-PASS 7-LIST,CONDNS-INITL 1 -VERSION 3
 102  1 02          CTL   630 1
 103  1 03   *
 104  1 04   * EQUATERS USED BY THE PROGRAM
 105  1 05   *
 106  1 06   INITAP EQU   %U0                                                    %U0
 107  1 07   SYSTAP EQU   %U1                                                    %U1
 108  1 08   ORIGTP EQU   %U4                                                    %U4
 109  1 09   WORKTP EQU   %U5                                                    %U5
 110  1 10   XTRATP EQU   %U6                                                    %U6
 111  1 11   FIXFRM EQU   0                                                      0000
 112  1 12   STLABL EQU   FIXFRM&2                                               0002
 113  1 13   STSTMT EQU   FIXFRM&5                                               0005
 114  1 14   COUNT  EQU   FIXFRM&7                                               0007
 115  1 15   ORGADD EQU   FIXFRM&32                                              0032
 116  1 16   LABADD EQU   FIXFRM&61                                              0061
 117  1 17   SUPADD EQU   FIXFRM&66                                              0066
 118  1 18   OP     EQU   FIXFRM&67                                              0067
 119  1 19   AOP    EQU   FIXFRM&70                                              0070
 120  1 20   BOP    EQU   FIXFRM&73                                              0073
 121  1 21   DMOD   EQU   FIXFRM&74                                              0074
 122  1 22   TYPE   EQU   FIXFRM&75                                              0075
 123  1 23   ALTER  EQU   FIXFRM&80                                              0080
 124  1 24   XXXX   EQU   0                                                      0000
 125  1 25   PRINT  EQU   200                                                    0200
 126  1 26   ALT    EQU   PRINT&4                                                0204
 127  1 27   PG     EQU   PRINT&7                                                0207
 128  1 28   LIN    EQU   PRINT&11                                               0211
 129  1 29   LAB    EQU   PRINT&19                                               0219
 130  1 30   OPCODE EQU   PRINT&25                                               0225
 131  1 31   OPRAND EQU   PRINT&78                                               0278
 132  1 32   SUFFIX EQU   PRINT&80                                               0280
 133  1 33   CT     EQU   PRINT&84                                               0284
 134  1 34   LOCN   EQU   PRINT&90                                               0290
 135  1 35   INOP   EQU   PRINT&93                                               0293
 136  1 36   INAOP  EQU   PRINT&97                                               0297
 137  1 37   INBOP  EQU   PRINT&101                                              0301
 138  1 38   INDMOD EQU   PRINT&103                                              0303
 139  1 39   KIND   EQU   PRINT&109                                              0309
 140  1 40   CARDNO EQU   PRINT&114                                              0314
 141  1 41   PUNCH  EQU   100                                                    0100
 142  1 42   LIBRN  EQU   0                                                      0000
 143  1 43   ZONE   EQU   189                                                    0189
 144  1 44   XR1    EQU   89                                                     0089
 145  1 45   XR2    EQU   94                                                     0094
 146  1 46   XR3    EQU   99                                                     0099
 147  1 47   *

                          1401 AUTOCODER-PASS 7-LIST,CONDNS-INITL 1 -VERSION 3       3771L               PAGE    2

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

 148  1 48   * INITIALIZATION ROUTINE
 149  1 49   *
 150  1 50          ORG   1900                                                        1900
 151  1 51   SSOP   DCW   @B@                                                 1  1900                       4
 152  1 52          CS    332                                                 4  1901  / 332                4
 153  1 53          CS                                                        1  1905  /                    4
 154  1 54          CS                                                        1  1906  /                    4
 155  1 55          CS                                                        1  1907  /                    4
 156  1 56          RTW   SYSTAP,400                                          8  1908  L %U1 400 R          4
 157  1 57          NOP   XXXX                                                4  1916  N 000                4
 158  1 58          BER   TPERRI                                              5  1920  B M03 L              5
 159  1 59          CW    ENDIN2,LSTOP1                                       7  1925  ) X99 O93            5
 160  1 60          SW    ENDIN                                               4  1932  , I98                5
 161  1 61          LCA   ENDIN,333                                           7  1936  L I98 333            5
 162  1 62          LCA   ENDIN,181                                           7  1943  L I98 181            5
 163  1 63          MCW   SSOP,TSTSIZ                                         7  1950  M Z00 407            5
 164  1 64          MCW   SSOP,SSAVE1                                         7  1957  M Z00 O91            6
 165  1 65          CW    ENDIN                                               4  1964  ) I98                6
 166  1 66          RWD   ORIGTP                                             5  1968  U %U4 R              6
 167  1 67          RWD   WORKTP                                             5  1973  U %U5 R              6
 168  1 68          RWD   XTRATP                                             5  1978  U %U6 R              6
 169  1 69          SW    PUNCH&72,PUNCH&76                                   7  1983  , 172 176            6
 170  1 70          A     &1,PUNCH&75                                         7  1990  A O96 175            7
 171  1 71          B     READ4                                               4  1997  B T15                7
 172  1 72   *
 173  1 73   * CHECK FOR JOB CARD
 174  1 74   *
 175  1 75          C     MNEMON-2,@JOB@                                      7  2001  C H48 O99            7
 176  1 76          BU    CKCTL                                               5  2008  B !78 /              7
 177  1 77          CW    JOBSW#1                                             4  2013  ) P00                7
 178  1 78          RT    WORKTP,180                                          8  2017  M %U5 180 R          7
 179  1 79          LCA   333,181                                             7  2025  L 333 181            8
 180  1 80          MCW   OPERND,JOBSAV                                       7  2032  M I02 O85            8
 181  1 81          MCW   IMAGE&80,PUNCH&80                                   7  2039  M I10 180            8
 182  1 82          MCW   ALTNO,JOBALT#4                                      7  2046  M I14 P04            8
 183  1 83          MCW   PAGENO,JOBPAG#2                                     7  2053  M H32 P06            8
 184  1 84          MCW   LINENO,JOBLIN#3                                     7  2060  M H35 P09            9
 185  1 85          MCW   LABEL,JOBLAB#6                                      7  2067  M H41 P15            9
 186  1 86          B     READ4                                               4  2074  B T15                9
 187  1 87   *
 188  1 88   * CHECK FOR CONTROL CARD
 189  1 89   *
 190  1 90   CKCTL  C     MNEMON-2,@CTL@                                      7  2078  C H48 P18            9
 191  1 91          BU    TSTSIZ                                              5  2085  B 407 /              9
 192  1 92          CW    CTLSW#1                                             4  2090  ) P19                9
 193  1 93          MCW   IMAGE&30,CTLSAV#10                                  7  2094  M H60 P29           10
 194  1 94          MCW   ALTNO,CTLALT#4                                      7  2101  M I14 P33           10
 195  1 95          MCW   PAGENO,CTLPAG#2                                     7  2108  M H32 P35           10
 196  1 96          MCW   LINENO,CTLLIN#3                                     7  2115  M H35 P38           10
 197  1 97          B     READ4                                               4  2122  B T15               10
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD

198  1 98   *
199  1 99   * TEST OUTPUT OPTIONS DESIRED
200  2 00   *
201  2 01   CHKOP   BCE   OPNTAP,LSTAPE,1                               8  2126  B K14 P24 1        11
202  2 02   TSTOP   BCE   TSTSIZ,OUTOPN,0                               8  2134  B 407 P22 0        11
203  2 03          BCE   CONDOP,OUTOPN,1                               8  2142  B 400 P22 1        11
204  2 04          BCE   TSTSIZ,OUTOPN,2                               8  2150  B 407 P22 2        11
205  2 05          BCE   CONDOP,OUTOPN,3                               8  2158  B 400 P22 3        12
206  2 06          BCE   TSTSIZ,OUTOPN,4                               8  2166  B 407 P22 4        12
207  2 07          BCE   CONDOP,OUTOPN,5                               8  2174  B 400 P22 5        12
208  2 08          BCE   TSTSIZ,OUTOPN,6                               8  2182  B 407 P22 6        12
209  2 09          BCE   CONDOP,OUTOPN,7                               8  2190  B 400 P22 7        13
210  2 10          BCE   TSTSIZ,OUTOPN,                                8  2198  B 407 P22          13
211  2 11          CW    CTLSW1#1                                      4  2206  ) P39              13
212  2 12          B     TSTSIZ                                        4  2210  B 407              13
213  2 13   OPNTAP CW    TAPOP1                                        4  2214  ) O92              13
214  2 14          B     TSTOP                                         4  2218  B J34              13
215  2 15   *
216  2 16   * SETUP & GET MAIN PROGRAM
217  2 17   *
218  2 18   GETMAN BSP   ORIGTP                                        5  2222  U %U4 B            13
219  2 19          SW    FIXFRM&1,FIXFRM&6                             7  2227  , 001 006          14
220  2 20          SW    FIXFRM&8,FIXFRM&14                            7  2234  , 008 014          14
221  2 21          SW    FIXFRM&23,FIXFRM&57                           7  2241  , 023 057          14
222  2 22          SW    FIXFRM&62,FIXFRM&67                           7  2248  , 062 067          14
223  2 23          SW    FIXFRM&68,FIXFRM&71                           7  2255  , 068 071          14
224  2 24          SW    FIXFRM&74                                     4  2262  , 074              14
225  2 25          CW    181,333                                       7  2266  ) 181 333          15
226  2 26          MCW   KBLK1,HOLDA1-1                               7  2273  M O27 O23          15
227  2 27          LCA   @L0     ,      ,      ,      1   @,PUNCH&71   7  2280  L P71 171          15
228  2 28          LCA   @2SKB@,ZONE                                  7  2287  L P75 189          15
229  2 29          LCA   @00000@,XR3&2                               7  2294  L P80 101          15
230  2 30          LCA   XR3&2                                       4  2301  L 101              15
231  2 31          LCA                                               1  2305  L                  16
232  2 32          SW    GRPMK3                                      4  2306  , O95              16
233  2 33          BCE   SETOUT,CNDSW1,1                             8  2310  B L49 O33 1        16
234  2 34          BW    *&5,LSTOP1                                  8  2318  V L30 O93 1        16
235  2 35          B     SETOUT                                      4  2326  B L49              16
236  2 36          BW    *&5,TAPOP1                                  8  2330  V L42 O92 1        16
237  2 37          B     SETOUT                                      4  2338  B L49              16
238  2 38          MCW   @1@,NOOUT1                                  7  2342  M P81 O94          17
239  2 39   SETOUT MCW   OUTOPN,OPNSV1                               7  2349  M P22 O90          17
240  2 40          WTW   XTRATP,SAVCN1                               8  2356  L %U6 O21 W        17
241  2 41          NOP   XXXX                                        4  2364  N 000              17
242  2 42          BER   TPERRI                                       5  2368  B M03 L            17
243  2 43          RWD   XTRATP                                      5  2373  U %U6 R            17
244  2 44          CW    GRPMK3                                      4  2378  ) O95              18
245  2 45          RTW   SYSTAP,201                                  8  2382  L %U1 201 R        18
246  2 46          NOP   XXXX                                        4  2390  N 000              18
247  2 47          BER   TPERRI                                      5  2394  B M03 L            18
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD

248  2 48          B     INIT2                                         4  2399  B 201              18
249  2 49   *
250  2 50   * TAPE REDUNDANCY ROUTINE
251  2 51   *
252  2 52   TPERRI SBR   XR2                                         4  2403  H 094              18
253  2 53          SBR   REDXI&3                                     4  2407  H M75              18
254  2 54          MZ    &9,XR2                                      7  2411  Y P82 094          19
255  2 55          MCW   4000-10&X2,TPINSI&7                         7  2418  M IR0 M66          19
256  2 56          MN    TPINSI&3,BSPI&3                             7  2425  D M62 M42          19
257  2 57          MCW   TPINSI&7,INST2I&7                           7  2432  M M66 N75          19
258  2 58   BSPI   BSP   INITAP                                      5  2439  U %U0 B            19
259  2 59          BCE   WRTRDI,TPINSI&7,W                           8  2444  B N48 M66 W        20
260  2 60          MCW   &9,READCI#1                                 7  2452  M P82 P83          20
261  2 61   TPINSI RT    INITAP,XXXX                                 8  2459  M %U0 000 R        20
262  2 62          BER   RDRERI                                      5  2467  B M76 L            20
263  2 63   REDXI  B     XXXX                                        4  2472  B 000              20
264  2 64   RDRERI MN    TPINSI&3,BSP2I&3                            7  2476  D M62 M86          20
265  2 65   BSP2I  BSP   INITAP                                      5  2483  U %U0 B            21
266  2 66          S     &1,READCI                                   7  2488  S O96 P83          21
267  2 67          BWZ   TPINSI,READCI,B                             8  2495  V M59 P83 B        21
268  2 68          MN    TPINSI&3,TPHALI&6                           7  2503  D M62 N16          21
269  2 69   TPHALI H     XXXX,790                                    7  2510  . 000 790          21
270  2 70          MCW   TPINSI&7,*&8                                7  2517  M M66 N31          22
271  2 71          RT    INITAP,XXXX                                 8  2524  M %U0 000 R        22
272  2 72          BSS   BSPI,E                                      5  2532  B M39 E            22
273  2 73          H     XXXX,711                                    7  2537  . 000 711          22
274  2 74          B     REDXI                                       4  2544  B M72              22
275  2 75   WRTRDI SKP   SYSTAP                                      5  2548  U %U1 E            22
276  2 76          BCE   SUBCTI,WRTCTI-1,5                           8  2553  B N85 P84 5        23
277  2 77          A     &1,WRTCTI#2                                 7  2561  A O96 P85          23
278  2 78   INST2I WT    INITAP,XXXX                                 8  2568  M %U0 000 W        23
279  2 79          BER   BSPI                                        5  2576  B M39 L            23
280  2 80          B     REDXI                                       4  2581  B M72              23
281  2 81   SUBCTI S     WRTCTI                                      4  2585  S P85              23
282  2 82          MN    TPINSI&3,*&7                                7  2589  D M62 O02          24
283  2 83          H     XXXX,760                                    7  2596  . 000 760          24
284  2 84          B     INST2I                                      4  2603  B N68              24
285  2 85   CLRLEG DCW   @CLEAR STORAGE @                           14  2620                     24
286  2 86   HOLDA1 DCW   &0000                                       4  2624                     24
287  2 87   KBLK1  DCW   @080@                                       3  2627                     24
288  2 88   CORSIZ DCW   @ 3999@                                     5  2632                     25
289  2 89   CNDSW1 DCW   @0@                                         1  2633                     25
290  2 90   JOBSAV DCW   #52                                        52  2685                     27
291  2 91   ERRCT1 DCW   @0000@                                      4  2689                     27
292  2 92   OPNSV1 DCW   @ @                                         1  2690                     27
293  2 93   SSAVE1 DCW   @ @                                         1  2691                     27
294  2 94   TAPOP1 DCW   @ @                                         1  2692                     27
295  2 95   LSTOP1 DCW   @ @                                         1  2693                     28
296  2 96   NOOUT1 DCW   @ @                                         1  2694                     28
297  2 97   GRPMK3 DC    @}@                                         1  2695             GMARK   28
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SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
298  2 98   SAVCN1 EQU   HOLDA1-3                                                2621
299  2 99          LTORG *                                                          2696
                   DCW   &1                                                  1  2696          LIT     28
                   DCW   @JOB@                                               3  2699          LIT     28
              JOBSW  DCW   #01                                               1  2700          AREA    28
              JOBALT DCW   #04                                               4  2704          AREA    28
              JOBPAG DCW   #02                                               2  2706          AREA    28
              JOBLIN DCW   #03                                               3  2709          AREA    29
              JOBLAB DCW   #06                                               6  2715          AREA    29
                   DCW   @CTL@                                               3  2718          LIT     29
              CTLSW  DCW   #01                                               1  2719          AREA    29
              CTLSAV DCW   #10                                              10  2729          AREA    29
              CTLALT DCW   #04                                               4  2733          AREA    29
              CTLPAG DCW   #02                                               2  2735          AREA    29
              CTLLIN DCW   #03                                               3  2738          AREA    30
              CTLSW1 DCW   #01                                               1  2739          AREA    30
                   DCW   @L0    ,     ,     ,     1   @                     32  2771          LIT     30
                   DCW   @2SKB@                                              4  2775          LIT     31
                   DCW   @00000@                                             5  2780          LIT     31
                   DCW   @1@                                                 1  2781          LIT     31
                   DCW   &9                                                  1  2782          LIT     31
              READCI DCW   #01                                               1  2783          AREA    31
              WRTCTI DCW   #02                                               2  2785          AREA    31
300  3 00          ORG   3831                                                       3831
301  3 01   INPUT4 DA    1X86                                                     3831  3916
302  3 02   PAGENO       1,2                                                      3832          FIELD
303  3 03   LINENO       3,5                                                      3835          FIELD
304  3 04   LABEL        6,11                                                     3841          FIELD
305  3 05   MNEMON       16,20                                                    3850          FIELD
306  3 06   OPERND       21,72                                                    3902          FIELD
307  3 07   ALTNO        81,84                                                    3914          FIELD
308  3 08   IMAGE  EQU   INPUT4-1                                                 3830
309  3 09   FIXINP EQU   IMAGE&87&X3                                              3917 X
310  3 10   INPUT5 EQU   FIXINP&1&X0                                              3918
311  3 11   PROSIZ EQU   CTLSAV-9                                                 2720
312  3 12   OBJSIZ EQU   CTLSAV-8                                                 2721
313  3 13   OUTOPN EQU   CTLSAV-7                                                 2722
314  3 14   LSTAPE EQU   CTLSAV-5                                                 2724
315  3 15   ENDIN  EQU   3998                                                     3998
316  3 16   3998   DCW   @}@                                                  1  3998          GMARK   33
317  3 17          XFR   LIBRN                                                          B 000           34
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SEQ PG LIN  LABEL   OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD
318  3 18          JOB   1401 AUTOCODER-PASS 7-LIST,CONDNS-INITL 2 -VERSION 3
319  3 19          ORG   400                                                      0400
320  3 20   *
321  3 21   * CONDENSE OPTION
322  3 22   *
323  3 23   CONDOP MCW   @1@,CNDSW1                                           7  0400  M T64 O33           37
324  3 24   *
325  3 25   * TEST OBJECT MACHINE SIZE
326  3 26   *
327  3 27   TSTSIZ BSS   SENSW,F                                              5  0407  B /03 F             37
328  3 28          BW    *&3,LSTOP1                                           8  0412  V 422 O93 1         37
329  3 29          CC    1                                                    2  0420  F 1                 37
330  3 30          MCW   @1@,PRINT&15                                         7  0422  M T64 215           37
331  3 31          MCW   CLRLEG                                               4  0429  M O20               37
332  3 32          MCW   @1@,200                                             7  0433  M T64 200           38
333  3 33          BW    IS4K,CTLSW                                           8  0440  V 544 P19 1         38
334  3 34          C     OBJSIZ,@3@                                           7  0448  C P21 T65           38
335  3 35          BL    OVER4K                                               5  0455  B 464 T             38
336  3 36          B     IS4K                                                 4  0460  B 544               38
337  3 37   OVER4K C     OBJSIZ,@6@                                           7  0464  C P21 T66           38
338  3 38          BL    BADCTL                                               5  0471  B 540 T             39
339  3 39          MCW   @,053053N000000N00001026@,PUNCH&52                   7  0476  M T89 152           39
340  3 40          LCA   @,008015,022026,030037,044,049@                      4  0483  L U18               39
341  3 41          MCW   PUNCH&52,PRINT&72                                     7  0487  M 152 272           39
342  3 42          B     PRTPNH                                               4  0494  B S17               39
343  3 43          MCW   @1,001/001117I0?@,PUNCH&71                           7  0498  M U33 171           39
344  3 44          MCW   @#071029C029056B026/B001/099@                        4  0505  M U60               39
345  3 45          LCA   @L068116,105106,110117B101/I9I@                      4  0509  L U89               40
346  3 46          BCE   IS8K,OBJSIZ,4                                        8  0513  B 651 P21 4         40
347  3 47          BCE   IS12K,OBJSIZ,5                                       8  0521  B 669 P21 5         40
348  3 48          MCW   @15@,CORSIZ-3                                        7  0529  M U91 O29           40
349  3 49          B     CLRST2                                               4  0536  B 683               40
350  3 50   BADCTL CW    CTLSW1                                               4  0540  ) P39               40
351  3 51   IS4K   MCW   @,05705710260@,PUNCH&44                             7  0544  M V02 144           41
352  3 52          LCA   @,008015,019026,030,034041,045,053@                  4  0551  L V35               41
353  3 53          MCW   PUNCH&44,PRINT&64                                    7  0555  M 144 264           41
354  3 54          B     PRTPNH                                               4  0562  B S17               41
355  3 55          MCW   @B0010270B0261,001/001113I0@,PUNCH&70                7  0566  M V61 170           41
356  3 56          LCA   @L068112,102106,113/101099/I99,027A070028)027@       4  0573  L W05               41
357  3 57          BCE   CLRST2,OBJSIZ,3                                      8  0577  B 683 P21 3         42
358  3 58          MZ    @S@,PUNCH&27                                         7  0585  Y W06 127           42
359  3 59          MCW   @1@,CORSIZ-3                                        7  0592  M T64 O29           42
360  3 60          BCE   CLRST2,OBJSIZ,2                                      8  0599  B 683 P21 2         42
361  3 61          MCW   @T@,PUNCH&27                                        7  0607  M W07 127           42
362  3 62          MCW   @3@,CORSIZ-2                                        7  0614  M T65 O30           43
363  3 63          BCE   CLRST2,OBJSIZ,1                                      8  0621  B 683 P21 1         43
364  3 64          CW    CTLSW1                                               4  0629  ) P39               43
365  3 65          MCW   @I@,PUNCH&27                                        7  0633  M W08 127           43
366  3 66          MCW   @39@,CORSIZ-2                                       7  0640  M W10 O30           43
367  3 67          B     CLRST2                                               4  0647  B 683               43
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SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
368  3 68   IS8K    MZ    @S@,PUNCH&29                                           7  0651  Y W06 129           44
369  3 69           MCW   @7@,CORSIZ-3                                          7  0658  M W11 O29           44
370  3 70           B     CLRST2                                                4  0665  B 683               44
371  3 71   IS12K   MZ    @K@,PUNCH&29                                           7  0669  Y W12 129           44
372  3 72           MCW   @11@,CORSIZ-3                                         7  0676  M W14 O29           44
373  3 73   CLRST2  MCW   PUNCH&71,PRINT&91                                     7  0683  M 171 291           44
374  3 74           MCW   @2@,PRINT&15                                         7  0690  M W15 215           45
375  3 75           MCW   CLRLEG                                               4  0697  M O20               45
376  3 76           B     PRTPNH                                                4  0701  B S17               45
377  3 77           MCW   @,00100110400@,PUNCH&71                             7  0705  M W26 171           45
378  3 78           MCW   @,061068,072/061039@,PUNCH&46                        7  0712  M W44 146           45
379  3 79           LCA   @,008015,022029,036040,047054@                       4  0719  L W72               45
380  3 80           MCW   PUNCH&71,PRINT&91                                     7  0723  M 171 291           46
381  3 81           MCW   @BOOTSTRAP@,PRINT&9                                  7  0730  M W81 209           46
382  3 82           B     PRTPNH                                                4  0737  B S17               46
383  3 83           BW    *&3,LSTOP1                                            8  0741  V 751 O93 1         46
384  3 84           CC    K                                                     2  0749  F K                 46
385  3 85           BW    DOHEAD,CTLSW                                          8  0751  V 818 P19 1         46
386  3 86   *
387  3 87   * TEST PROCESSOR MACHINE SIZE
388  3 88   *
389  3 89           C     PROSIZ,@3@                                            7  0759  C P20 T65           47
390  3 90           BE    DOHEAD                                                5  0766  B 818 S             47
391  3 91           BH    BADPRO                                                5  0771  B 814 U             47
392  3 92           C     PROSIZ,@6@                                            7  0776  C P20 T66           47
393  3 93           BL    BADPRO                                                5  0783  B 814 T             47
394  3 94           MCW   @400@,KBLK1                                           7  0788  M W84 O27           47
395  3 95           BCE   DOHEAD,PROSIZ,4                                      8  0795  B 818 P20 4         48
396  3 96           A     @400@,KBLK1                                           7  0803  A W84 O27           48
397  3 97           B     DOHEAD                                                4  0810  B 818               48
398  3 98   BADPRO  CW    CTLSW1                                                4  0814  ) P39               48
399  3 99   *
400  4 00   * PRINT HEADING, JOB & CONTROL CARDS
401  4 01   *
402  4 02   DOHEAD  MCW   @1@,PRINT&114                                        7  0818  M T64 314           48
403  4 03           MCW   @PAGE@,PRINT&109                                      7  0825  M W88 309           48
404  4 04           MCW   JOBSAV,OPRAND                                         7  0832  M O85 278           49
405  4 05           MCW   PUNCH&80,LOCN                                        7  0839  M 180 290           49
406  4 06           MCW   @0@,200                                             7  0846  M W89 200           49
407  4 07           B     PRINT2                                                4  0853  B '61               49
408  4 08           BW    *&3,LSTOP1                                            8  0857  V 867 O93 1         49
409  4 09           CC    K                                                     2  0865  F K                 49
410  4 10           CS    PRINT&78                                              4  0867  / 278               49
411  4 11           MCW   @SFX CT  LOCN  INSTRUCTION TYPE  CARD@,PRINT&114     7  0871  M X25 314           50
412  4 12           MCW   @SEQ PG LIN  LABEL  OP    OPERANDS@,PRINT&34        7  0878  M X58 234           50
413  4 13           MCW   @0@,200                                             7  0885  M W89 200           50
414  4 14           B     PRINT2                                                4  0892  B '61               50
415  4 15           CS    PRINT&132                                             4  0896  / 332               50
416  4 16           CS                                                          1  0900  /                   50
417  4 17           B     PRINT2                                                4  0901  B '61               50
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SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
418  4 18           BW    TSTCTL,JOBSW                                          8  0905  V 970 P00 1         51
419  4 19           MCS   JOBALT,ALT                                          7  0913  Z P04 204           51
420  4 20           MCS   JOBPAG,PG                                           7  0920  Z P06 207           51
421  4 21           MZ    JOBPAG,PG                                           7  0927  Y P06 207           51
422  4 22           MCW   JOBLIN,LIN                                          7  0934  M P09 211           51
423  4 23           MCW   JOBLAB,LAB                                          7  0941  M P15 219           52
424  4 24           MCW   @JOB@,OPCODE-2                                      7  0948  M X61 223           52
425  4 25           MCW   JOBSAV,OPRAND                                       7  0955  M O85 278           52
426  4 26           B     PRINT2                                                4  0962  B '61               52
427  4 27           CS    OPRAND                                                4  0966  / 278               52
428  4 28   TSTCTL  BW    NOCNTL,CTLSW                                          8  0970  V '50 P19 1         52
429  4 29           MCS   CTLALT,ALT                                          7  0978  Z P33 204           53
430  4 30           MCS   CTLPAG,PG                                           7  0985  Z P35 207           53
431  4 31           MZ    CTLPAG,PG                                           7  0992  Y P35 207           53
432  4 32           MCW   CTLLIN,LIN                                          7  0999  M P38 211           53
433  4 33           MCW   CTLSAV,PRINT&36                                     7  1006  M P29 236           53
434  4 34           MCW   @CTL@,OPCODE-2                                      7  1013  M X64 223           54
435  4 35           BW    CTLPNT,CTLSW1                                         8  1020  V '42 P39 1         54
436  4 36           MCW   @BAD STATEMENT@,PRINT&128                          7  1028  M X77 328           54
437  4 37   ERRCTL  A     &1,ERRCT1                                             7  1035  A X78 O89           54
438  4 38   CTLPNT  B     PRINT2                                                4  1042  B '61               54
439  4 39           B     GETMAN                                                4  1046  B K22               54
440  4 40   NOCNTL  MCW   @NO CONTROL CARD@,PRINT&130                          7  1050  M X93 330           55
441  4 41           B     ERRCTL                                                4  1057  B '35               55
442  4 42   PRINT2  SBR   PNT2XT&3                                              4  1061  H /02               55
443  4 43           BW    *&2,LSTOP1                                            8  1065  V '74 O93 1         55
444  4 44           W                                                           1  1073  2                   55
445  4 45           BW    PNT2XT,TAPOP1                                         8  1074  V '99 O92 1         55
446  4 46           WT    3,200                                                 8  1082  M %U3 200 W         56
447  4 47           NOP   XXXX                                                4  1090  N 000               56
448  4 48           BER   TPERRI                                               5  1094  B M03 L             56
449  4 49   PNT2XT  B     XXXX                                                  4  1099  B 000               56
450  4 50   *
451  4 51   * TEST SENSE SWITCHES FOR OUTPUT OPTIONS
452  4 52   *
453  4 53   SENSW   LCA   @0@,OUTOPN                                           7  1103  L W89 P22           56
454  4 54           LCA   @0@,CNDSW1                                           7  1110  L W89 O33           56
455  4 55           MCW   @ @,LSTAPE                                          7  1117  M X94 P24           57
456  4 56           SW    TAPOP1                                                4  1124  , O92               57
457  4 57           BSS   ADD1,B                                                5  1128  B /68 B             57
458  4 58   TSTSSC  BSS   ADD2,C                                                5  1133  B /79 C             57
459  4 59   TSTSSG  BSS   ADD4,G                                                5  1138  B /90 G             57
460  4 60   TSTSSD  BSS   LSTAP,D                                               5  1143  B S01 D             57
461  4 61   TSTSSE  BSS   SUPLST,E                                              5  1148  B S09 E             57
462  4 62   SSXT    CW    OUTOPN                                                4  1153  ) P22               58
463  4 63           MCW   @N@,TSTSIZ                                           7  1157  M X95 407           58
464  4 64           B     CHKOP                                                 4  1164  B J26               58
465  4 65   ADD1    A     &1,OUTOPN                                             7  1168  A X78 P22           58
466  4 66           B     TSTSSC                                                4  1175  B /33               58
467  4 67   ADD2    A     &2,OUTOPN                                             7  1179  A X96 P22           58
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
468  4 68           B     TSTSSG                                        4  1186  B /38               58
469  4 69   ADD4    A     &4,OUTOPN                                     7  1190  A X97 P22           59
470  4 70           B     TSTSSD                                        4  1197  B /43               59
471  4 71   LSTAP   CW    TAPOP1                                        4  1201  ) O92               59
472  4 72           B     TSTSSE                                        4  1205  B /48               59
473  4 73   SUPLST  SW    LSTOP1                                        4  1209  , O93               59
474  4 74           B     SSXT                                          4  1213  B /53               59
475  4 75   *
476  4 76   * PRINT AND/OR PUNCH
477  4 77   *
478  4 78   PRTPNH  SBR   EXIT&3                                        4  1217  H T14               59
479  4 79           MCS   PUNCH&75,CARDNO                               7  1221  Z 175 314           60
480  4 80           BW    *&2,LSTOP1                                    8  1228  V S37 O93 1         60
481  4 81           W                                                   1  1236  2                   60
482  4 82           BW    PUNCH1,TAPOP1                                 8  1237  V S86 O92 1         60
483  4 83           WT    3,200                                         8  1245  M %U3 200 W         60
484  4 84           NOP   XXXX                                          4  1253  N 000               60
485  4 85           BER   TPERRI                                       5  1257  B M03 L             61
486  4 86           MCW   @&@,100                                       7  1262  M X98 100           61
487  4 87           WT    3,100                                         8  1269  M %U3 100 W         61
488  4 88           NOP   XXXX                                          4  1277  N 000               61
489  4 89           BER   TPERRI                                       5  1281  B M03 L             61
490  4 90   PUNCH1  BCE   *&2,CNDSW1,0                                 8  1286  B S95 O33 0         61
491  4 91           P                                                   1  1294  4                   61
492  4 92           A     &1,PUNCH&75                                   7  1295  A X78 175           62
493  4 93           CS    PRINT&132                                     4  1302  / 332               62
494  4 94           CS                                                  1  1306  /                   62
495  4 95           CS    PUNCH&71                                      4  1307  / 171               62
496  4 96   EXIT    B     XXXX                                          4  1311  B 000               62
497  4 97   *
498  4 98   * READ ORIGINAL TAPE
499  4 99   *
500  5 00   READ4   SBR   READ4X&3                                     4  1315  H T39               62
501  5 01           RT    ORIGTP,INPUT4                                 8  1319  M %U4 H31 R         62
502  5 02           B     CHKLG                                         4  1327  B T40               63
503  5 03           BER   TPERRI                                       5  1331  B M03 L             63
504  5 04   READ4X  B     XXXX                                          4  1336  B 000               63
505  5 05   CHKLG   BCE   READ4&4,INPUT4&12,}                         8  1340  B T19 H43 } GMARK   63
506  5 06           CHAIN 12                                                                        MACRO
507                  BCE                                               1  1348  B                   GEN     63
508                  BCE                                               1  1349  B                   GEN     63
509                  BCE                                               1  1350  B                   GEN     63
510                  BCE                                               1  1351  B                   GEN     64
511                  BCE                                               1  1352  B                   GEN     64
512                  BCE                                               1  1353  B                   GEN     64
513                  BCE                                               1  1354  B                   GEN     64
514                  BCE                                               1  1355  B                   GEN     64
515                  BCE                                               1  1356  B                   GEN     64
516                  BCE                                               1  1357  B                   GEN     64
517                  BCE                                               1  1358  B                   GEN     65
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD
518                  BCE                                               1  1359  B                   GEN     65
519  5 07           B     READ4X-5                                      4  1360  B T31               65
520  5 08           LTORG *                                                      1364
                    DCW   @1@                                           1  1364                LIT     65
                    DCW   @3@                                           1  1365                LIT     65
                    DCW   @6@                                           1  1366                LIT     65
                    DCW   @,053053N000000N00001026@                    23  1389                LIT     65
                    DCW   @,008015,022026,030037,044,049@              29  1418                LIT     66
                    DCW   @1,001/001117IO?@                            15  1433                LIT     67
                    DCW   @#071029C029056B026/B001/099@                27  1460                LIT     68
                    DCW   @LO68116,105106,110117B101/I9I@              29  1489                LIT     69
                    DCW   @15@                                          2  1491                LIT     69
                    DCW   @,05705710260@                               11  1502                LIT     70
                    DCW   @,008015,019026,030,034041,045,053@          33  1535                LIT     71
                    DCW   @B0010270B0261,001/001113I0@                 26  1561                LIT     72
                    DCW   @LO68112,102106,113/101099/I99,027A070028)027@ 44 1605               LIT     74
                    DCW   @S@                                           1  1606                LIT     74
                    DCW   @T@                                           1  1607                LIT     74
                    DCW   @I@                                           1  1608                LIT     74
                    DCW   @39@                                          2  1610                LIT     74
                    DCW   @7@                                           1  1611                LIT     75
                    DCW   @K@                                           1  1612                LIT     75
                    DCW   @11@                                          2  1614                LIT     75
                    DCW   @2@                                           1  1615                LIT     75
                    DCW   @,00100110400@                               11  1626                LIT     75
                    DCW   @,061068,072/061039@                         18  1644                LIT     75
                    DCW   @,008015,022029,036040,047054@               28  1672                LIT     76
                    DCW   @BOOTSTRAP@                                   9  1681                LIT     76
                    DCW   @400@                                         3  1684                LIT     77
                    DCW   @PAGE@                                        4  1688                LIT     77
                    DCW   @0@                                           1  1689                LIT     77
                    DCW   @SFX CT  LOCN  INSTRUCTION TYPE  CARD@       36  1725                LIT     78
                    DCW   @SEQ PG LIN  LABEL  OP    OPERANDS@          33  1758                LIT     79
                    DCW   @JOB@                                         3  1761                LIT     79
                    DCW   @CTL@                                         3  1764                LIT     79
                    DCW   @BAD STATEMENT@                              13  1777                LIT     80
                    DCW   &1                                            1  1778                LIT     80
                    DCW   @NO CONTROL CARD@                            15  1793                LIT     80
                    DCW   @ @                                           1  1794                LIT     80
                    DCW   @N@                                           1  1795                LIT     80
                    DCW   &2                                            1  1796                LIT     80
                    DCW   &4                                            1  1797                LIT     80
                    DCW   @&@                                           1  1798                LIT     81
521  5 09   ENDIN2  DCW   @}@                                           1  1799                GMARK   81
522  5 10           XFR   LIBRN                                                  B 000               82
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD

523  5 11           JOB   1401 AUTOCODER-PASS 7 PROCESS EX/END -VERSION 3
524  5 12           ORG   ISIOCS                                             0794
525  5 13   *
526  5 14   * EX, END CARDS
527  5 15   *
528  5 16   EXEND  MCW   @B@,INOP                                      7  0794  M D12 293           85
529  5 17           MCW   @B@,HOLDH&1                                   7  0801  M D12 D93           85
530  5 18           BCE   SETAOP,TYPE,C                                 8  0808  B 830 075 C         85
531  5 19           MCW   @/     080@,INBOP                             7  0816  M D21 301           85
532  5 20           MCW   @/   080@,HOLDH&7                             7  0823  M D28 D99           85
533  5 21   SETAOP MCW   AOP,INAOP                                     7  0830  M 070 297           86
534  5 22           MCW   AOP,HOLDH&4                                   7  0837  M 070 D96           86
535  5 23           BCE   SYMUND,AOP,#                                  8  0844  B L09 070 #         86
536  5 24           B     SETLOC                                        4  0852  B U18               86
537  5 25           B     CONDNS                                        4  0856  B L54               86
538  5 26           B     PRNTLN                                        4  0860  B Y54               86
539  5 27           BCE   GETOV1,TYPE,C                                 8  0864  B Z63 075 C         87
540  5 28           CC    1                                             2  0872  F 1                 87
541  5 29           MCW   @1@,200                                      7  0874  M D29 200           87
542  5 30           MCS   ERRCNT,PRINT&4                               7  0881  Z C66 204           87
543  5 31           C     PRINT&4,BLANK4#4                              7  0888  C 204 D33           87
544  5 32           BU    SETERH                                        5  0895  B 945 /             87
545  5 33   TSTCOR BW    EOJOB,ADDRSW#1                                8  0900  V 928 D34 1         88
546  5 34           MCW   WORD1,PRINT&20                                7  0908  M S49 220           88
547  5 35           B     WTAPE                                         4  0915  B J24               88
548  5 36           BW    *&2,LSTOP                                     8  0919  V 928 C70 1         88
549  5 37           W                                                   1  0927  2                   88
550  5 38   EOJOB  BW    RESET,TAPOP                                   8  0928  V 543 C69 1         88
551  5 39           WTM   3                                             5  0936  U %U3 M             89
552  5 40           B     RESET                                         4  0941  B 543               89
553  5 41   SETERH MCW   @ERRORS@,PRINT&11                             7  0945  M D40 211           89
554  5 42           C     PRINT&4,@   1@                                7  0952  C 204 D44           89
555  5 43           BU    *&8                                           5  0959  B 971 /             89
556  5 44           MCW   BLANK1,PRINT&11                               7  0964  M D30 211           89
557  5 45           B     WTAPE                                         4  0971  B J24               89
558  5 46           BW    *&2,LSTOP                                     8  0975  V 984 C70 1         90
559  5 47           W                                                   1  0983  2                   90
560  5 48           CS    PRINT&11                                      4  0984  / 211               90
561  5 49           B     TSTCOR                                        4  0988  B 900               90
562  5 50   *
563  5 51   * CONDENSE EX, END CARDS
564  5 52   *
565  5 53   NOCARD C     WMLOC,AWMSTR                                  7  0992  C C75 C78           90
566  5 54           BE    TSTEND                                        5  0999  B '20 S             90
567  5 55           CW    NEWSW                                         4  1004  ) G27               90
568  5 56   ENDRTN BW    NOCARD,NEWSW                                  8  1008  V 992 G27 1         91
569  5 57           B     PNCHCD                                        4  1016  B P62               91
570  5 58   TSTEND BCE   EXCUTE,TYPE,C                                 8  1020  B '57 075 C         91
571  5 59           CS    PUNCH&71                                      4  1028  / 171               91
572  5 60           MCW   HOLDH&7,PUNCH&46                             7  1032  M D99 146           91
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SEQ PG LIN  LABEL   OP    OPERANDS                                    SFX CT  LOCN  INSTRUCTION TYPE  CARD

573  5 61           MCS   PUNCH&75,CARDNO                               7  1039  Z 175 314           91
574  5 62           SBR   PNHXT&3,LSTCD                                 7  1046  H Q90 S11           92
575  5 63           B     TSTPCH                                        4  1053  B Q21               92
576  5 64   EXCUTE MCE   WMSTR,PUNCH&71                                7  1057  E D11 171           92
577  5 65           MCW   @N000000@,PUNCH&46                           7  1064  M D51 146           92
578  5 66           MCW   HOLDH&4,PUNCH&71                             7  1071  M D96 171           92
579  5 67           MCS   PUNCH&75,CARDNO                               7  1078  Z 175 314           92
580  5 68           SBR   PNHXT&3,EXOUT                                 7  1085  H Q90 '96           93
581  5 69           B     TSTPCH                                        4  1092  B Q21               93
582  5 70   *
583  5 71   * PUNCH COMPATIBILITY CARDS
584  5 72   *
585  5 73   EXOUT  CS    PUNCH&71                                      4  1096  / 171               93
586  5 74           B     READOG                                        4  1100  B B09               93
587  5 75           BSP   ORIGTP                                       5  1104  U %U4 B             93
588  5 76           C     MNEMON-2,@JOB@                                7  1109  C H48 D54           93
589  5 77           BU    *&8                                           5  1116  B /28 /             93
590  5 78           MCW   IMAGE&80,PUNCH&80                            7  1121  M I10 180           94
591  5 79           MCW   WORD2,PUNCH&39                               7  1128  M S88 139           94
592  5 80           LCA   WORD3,PUNCH&66                               7  1135  L S99 166           94
593  5 81           MCW   PUNCH&66,PUNCH&50                            7  1142  M 166 150           94
594  5 82           BCE   *&2,CONDSW,0                                  8  1149  B /58 C10 0         94
595  5 83           P                                                   1  1157  4                   94
596  5 84           B     WTAP2                                         4  1158  B ?43               95
597  5 85           CS    PUNCH&66                                      4  1162  / 166               95
598  5 86           A     &1,PUNCH&75                                   7  1166  A D55 175           95
599  5 87           MCW   WORD4,PUNCH&21                               7  1173  M T20 121           95
600  5 88           MCW   WORD5,PUNCH&71                               7  1180  M T31 171           95
601  5 89           SBR   PNHXT&3,OUTEX                                7  1187  H Q90 S26           95
602  5 90           BCE   *&2,CONDSW,0                                  8  1194  B S03 C10 0         96
603  5 91           P                                                   1  1202  4                   96
604  5 92           B     WTAP2                                         4  1203  B ?43               96
605  5 93           B     NEWCRD                                        4  1207  B Q34               96
606  5 94   LSTCD  CS    PUNCH&80                                      4  1211  / 180               96
607  5 95           BCE   *&4,CONDSW,0                                  8  1215  B S26 C10 0         96
608  5 96           P                                                   1  1223  4                   96
609  5 97           SS    8                                             2  1224  K 8                 97
610  5 98   OUTEX  B     CNDOUT&7                                      4  1226  B ?14               97
611  5 99   WORD1  DCW   @OBJECT CORE EXCEEDED@                        20  1249                      97
612  6 00   WORD2  DCW   @,015022)024056,029036,040047,0540611001@     39  1288                      98
613  6 01   WORD3  DCW   @,001008B001@                                 11  1299                      99
614  6 02   WORD4  DCW   @,068072)063067/061039@                       21  1320                      99
615  6 03   WORD5  DCW   @,0010011040@                                 11  1331                     100
616  6 04   OV2GM  DCW   @}@                                           1  1332              GMARK  100
617  6 05           XFR   LIBRN                                              B 000               101
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

618  6 06          JOB   1401 AUTOCODER-PASS 7 LEFT MAIN LINE  -VERSION 3
619  6 07   *
620  6 08   * READ SECOND HALF OF MAIN PROGRAM
621  6 09   *
622  6 10          ORG   201                                                 0201
623  6 11   INIT2  RTW   SYSTAP,2000                                    8  0201  L %U1 !00 R        104
624  6 12          NOP   XXXX                                            4  0209  N 000              104
625  6 13          BER   TPERR                                           5  0213  B 334 L            104
626  6 14          RTW   XTRATP,SAVCON                                  8  0218  L %U6 B98 R        104
627  6 15          NOP   XXXX                                            4  0226  N 000              104
628  6 16          BER   TPERR                                           5  0230  B 334 L            104
629  6 17          RWD   XTRATP                                          5  0235  U %U6 R            104
630  6 18          CW    GMSAVE,WMSW#1                                   7  0240  ) C72 D56          105
631  6 19          CW    ENDE1,ENDE2                                     7  0247  ) Z94 H27          105
632  6 20          SW    GM,181                                          7  0254  , 333 181          105
633  6 21          SW    OV1GM                                           4  0261  , U17              105
634  6 22          WTW   XTRATP,ISIOCS                                   8  0265  L %U6 794 W        105
635  6 23          NOP   XXXX                                            4  0273  N 000              105
636  6 24          BER   TPERR                                           5  0277  B 334 L            106
637  6 25          RWD   XTRATP                                          5  0282  U %U6 R            106
638  6 26          CW    OV1GM                                           4  0287  ) U17              106
639  6 27          ZA    &5,LINCT                                        7  0291  ? D57 F13          106
640  6 28          BCE   RESET,NOOUT,1                                   8  0298  B 543 C71 1        106
641  6 29          B     GET                                             4  0306  B A24              106
642  6 30          B     SETUP                                           4  0310  B 595              106
643  6 31          DCW   @ @                                             1  0314                     107
644  6 32   *
645  6 33   * MAIN LINE PROGRAM
646  6 34   *
647  6 35          ORG   333                                                 0333
648  6 36   GM     DC    @}@                                             1  0333              GMARK  108
649  6 37   *
650  6 38   * TAPE REDUNDANCY ROUTINE
651  6 39   *
652  6 40   TPERR  SBR   XR2                                             4  0334  H 094              108
653  6 41          SBR   REDXT&3                                         4  0338  H 406              108
654  6 42          MZ    PLUS9,XR2                                       7  0342  Y 538 094          108
655  6 43          MCW   4000-10&X2,TPINST&7                             7  0349  M IR0 397          108
656  6 44          MN    TPINST&3,BSP1&3                                 7  0356  D 393 373          109
657  6 45          MCW   TPINST&7,INST2&7                               7  0363  M 397 506          109
658  6 46   BSP1   BSP   INITAP                                          5  0370  U %U0 B            109
659  6 47          BCE   WRTRED,TPINST&7,W                               8  0375  B 479 397 W        109
660  6 48          MCW   PLUS9,READCT                                    7  0383  M 538 540          109
661  6 49   TPINST RT    INITAP,XXXX                                     8  0390  M %U0 000 R        110
662  6 50          BER   RDRERR                                          5  0398  B 407 L            110
663  6 51   REDXT  B     XXXX                                            4  0403  B 000              110
664  6 52   RDRERR MN    TPINST&3,BSP2&3                                 7  0407  D 393 417          110
665  6 53   BSP2   BSP   INITAP                                          5  0414  U %U0 B            110
666  6 54          S     PLUS1,READCT                                    7  0419  S 539 540          110
667  6 55          BWZ   TPINSTM,READCT,B                                8  0426  V 390 540 B        111
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

668  6 56          MN    TPINST&3,TPHALT&6                               7  0434  D 393 447          111
669  6 57   TPHALT H     XXXX,790                                        7  0441  . 000 790          111
670  6 58          MCW   TPINST&7,*&8                                    7  0448  M 397 462          111
671  6 59          RT    INITAP,XXXX                                     8  0455  M %U0 000 R        111
672  6 60          BSS   BSP1,E                                          5  0463  B 370 E            112
673  6 61          H     XXXX,712                                        7  0468  . 000 712          112
674  6 62          B     REDXT                                           4  0475  B 403              112
675  6 63   WRTRED SKP   SYSTAP                                          5  0479  U %U1 E            112
676  6 64          BCE   SUBCTR,WRTCTR-1,5                               8  0484  B 516 541 5        112
677  6 65          A     PLUS1,WRTCTR                                    7  0492  A 539 542          112
678  6 66   INST2  WT    INITAP,XXXX                                     8  0499  M %U0 000 W        113
679  6 67          BER   BSP1                                            5  0507  B 370 L            113
680  6 68          B     REDXT                                           4  0512  B 403              113
681  6 69   SUBCTR S     WRTCTR                                          4  0516  S 542              113
682  6 70          MN    TPINST&3,*&7                                    7  0520  D 393 533          113
683  6 71          H     XXXX,760                                        7  0527  . 000 760          113
684  6 72          B     INST2                                           4  0534  B 499              113
685  6 73   PLUS9  DCW   &9                                              1  0538                     114
686  6 74   PLUS1  DCW   &1                                              1  0539                     114
687  6 75   READCT DCW   #1                                              1  0540                     114
688  6 76   WRTCTR DCW   #2                                              2  0542                     114
689  6 77   *
690  6 78   * GET PASS F
691  6 79   *
692  6 80   RESET  LCA   SSAVE,201                                       7  0543  L C68 201          114
693  6 81          LCA                                                   1  0550  L                  114
694  6 82          RT    SYSTAP,332                                      8  0551  M %U1 332 R        114
695  6 83          CW    181,333                                         7  0559  ) 181 333          115
696  6 84          RTW   SYSTAP,2000                                     8  0566  L %U1 !00 R        115
697  6 85          NOP   XXXX                                            4  0574  N 000              115
698  6 86          BER   TPERR                                           5  0578  B 334 L            115
699  6 87          MCW   201,2001                                        7  0583  M 201 !01          115
700  6 88          MCW                                                   1  0590  M                  115
701  6 89          B     2002                                            4  0591  B !02              115
702  6 90   *
703  6 91   * BEGIN MAIN LINE PROGRAM
704  6 92   *
705  6 93   SETUP  CS    PRINT&132                                       4  0595  / 332              116
706  6 94          CS                                                    1  0599  /                  116
707  6 95   GETORG B     READOG                                          4  0600  B B09              116
708  6 96   *
709  6 97   * DETERMINE TYPE
710  6 98   *
711  6 99   ANALWK SW    TYPESW#1                                        4  0604  , D58              116
712  7 00          MN    TYPE,TYPEA#1                                    7  0608  D 075 D59          116
713  7 01          BCE   BYPASS,TYPE,%                                   8  0615  B S85 075 %        116
714  7 02          BCE   BYPASS,TYPE,8                                   8  0623  B S85 075 8        116
715  7 03          BCE   BYPASS,TYPE,I                                   8  0631  B S85 075 I        117
716  7 04          BCE   BYPASS,TYPE,H                                   8  0639  B S85 075 H        117
717  7 05          BCE   PROWRK,ALTER,                                   8  0647  B 881 080          117
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SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
718  7 06   ANALOG BCE   SETCOM,LABEL-5,*                          8  0655  B J72 H36 *        117
719  7 07          BCE   MAPCNT,IMAGE&75,R                         8  0663  B 805 I05 R        118
720  7 08          BCE   ISIOCS,IMAGE&75,W                        8  0671  B 794 I05 W        118
721  7 09          BCE   MAPCNT&7,IMAGE&75,S                      8  0679  B 812 I05 S        118
722  7 10          BCE   MAPCNT&7,IMAGE&75,Z                      8  0687  B 812 I05 Z        118
723  7 11          C     MNEMON-2,@JOB@                           7  0695  C H48 D54          118
724  7 115         BE    DOJOB                                    5  0702  B 843 S            119
725  7 12          C     ALTER,ALTNO                              7  0707  C 080 I14          119
726  7 13          BU    SEQERR                                   5  0714  B ?83 /            119
727  7 14          B     SETFRE                                   4  0719  B T01              119
728  7 15          CW    TYPESW                                   4  0723  ) D58              119
729  7 16          BCE   INSTR,TYPE,                              8  0727  B V43 075          119
730  7 17          MN    TYPE,XR2                                 7  0735  D 075 094          120
731  7 18          A     XR2                                      4  0742  A 094              120
732  7 19          A     XR2                                      4  0746  A 094              120
733  7 20          B     *&1&X2                                   4  0750  B 7N4              120
734  7 21          B     DA                                       4  0754  B W52              120
735  7 22          B     CONST                                    4  0758  B '62              120
736  7 23          B     DSA                                      4  0762  B 969              120
737  7 24          B     GETOV2                                   4  0766  B ?94              121
738  7 25          B     SFX                                      4  0770  B L43              121
739  7 26          B     TYPERR                                   4  0774  B S78              121
740  7 27          B     ORG                                      4  0778  B K12              121
741  7 28          B     DS                                       4  0782  B K85              121
742  7 29          B     TYPERR                                   4  0786  B S78              121
743  7 30          B     TYPERR                                   4  0790  B S78              121
744  7 31   *
745  7 32   * MACRO CARD
746  7 33   *
747  7 34   ISIOCS MCW   @IOCS@,KIND-1                            7  0794  M D63 308          122
748  7 35          B     MAPCNT&7                                 4  0801  B 812              122
749  7 36   MAPCNT MCW   @MACRO@,KIND                             7  0805  M D68 309          122
750  7 37          B     SETFRE                                   4  0812  B T01              122
751  7 38          BCE   CALERR,IMAGE&86,7                        8  0816  B 828 I16 7        122
752  7 39          B     COMXT                                    4  0824  B J85              122
753  7 40   CALERR MCW   @OVERCALL@,PRINT&123                     7  0828  M D76 323          123
754  7 41          B     BMPERR                                   4  0835  B L28              123
755  7 42          B     COMXT                                    4  0839  B J85              123
756  7 43   *
757  7 44   * NEW JOB CARD
758  7 45   *
759  7 46   DOJOB  MCW   OPERND,JOB                               7  0843  M I02 C62          123
760  7 47          BW    DOIDT,NEWSW                              8  0850  V 862 G27 1        123
761  7 48          B     PNCHCD                                   4  0858  B P62              123
762  7 49   DOIDT  MCW   IMAGE&80,PUNCH&80                        7  0862  M I10 180          124
763  7 50          S     LINCT                                    4  0869  S F13              124
764  7 51          B     PRTHDG                                   4  0873  B !00              124
765  7 52          B     MAPCNT&7                                 4  0877  B 812              124
766  7 53   *
767  7 54   * PROGRAM GENERAGED RECORD
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SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
768  7 55   *
769  7 56   PROWRK BCE   XTRA,TYPE,Y                             8  0881  B 924 075 Y        124
770  7 57          CW    OP&1                                     4  0889  ) 068              124
771  7 58          MCS   AOP,PRINT&11                            7  0893  Z 070 211          124
772  7 59          SW    OP&1                                     4  0900  , 068              125
773  7 60          BCE   ADCON,TYPE,S                           8  0904  B 944 075 S        125
774  7 61          BCE   LITRAL,TYPEA,1                         8  0912  B 999 D59 1        125
775  7 62          B     TYPERR                                   4  0920  B S78              125
776  7 63   *
777  7 64   * LITERAL GREATER THAN 30 CHARACTERS
778  7 65   *
779  7 66   XTRA   SW    PRINT&27                                 4  0924  , 227              125
780  7 67          MCW   FIXFRM&72,OPRAND                         7  0928  M 072 278          125
781  7 68          CHAIN 5                                                        MACRO
782                MCW                                            1  0935  M           GEN    125
783                MCW                                            1  0936  M           GEN    126
784                MCW                                            1  0937  M           GEN    126
785                MCW                                            1  0938  M           GEN    126
786                MCW                                            1  0939  M           GEN    126
787  7 69          B     BYPASS                                   4  0940  B S85              126
788  7 70   *
789  7 71   * ADCON CARD
790  7 72   *
791  7 73   ADCON  MCW   @ADCON@,KIND                             7  0944  M D81 309          126
792  7 74          SW    PRINT&27                                 4  0951  , 227              126
793  7 75          MCW   FIXFRM&53,PRINT&40                       7  0955  M 053 240          127
794  7 76          MCW   FIXFRM&16,OPCODE-2                      7  0962  M 016 223          127
795  7 77   DSA    MCW   BOP,PRINT&95                            7  0969  M 073 295          127
796  7 78          MCW   BOP,HOLDH&3                            7  0976  M 073 D95          127
797  7 79          B     SETADD                                   4  0983  B S45              127
798  7 80          BCE   SYMUND,BOP,#                           8  0987  B L09 073 #        128
799  7 81          B     SETLIT                                   4  0995  B /56              128
800  7 82   *
801  7 83   * LITERAL AND AREA DEFINITION CARDS
802  7 84   *
803  7 85   LITRAL BWZ   PROLIT,TYPE,S                           8  0999  V '41 075 S        128
804  7 86          BWZ   DADC,FIXFRM&1,B                         8  1007  V S28 001 B        128
805  7 87          MCW   @RMARK@,KIND                            7  1015  M D86 309          128
806  7 88          BCE   PROLIT&7,TYPE,A                         8  1022  B '48 075 A        129
807  7 89          MCW   @G@,KIND-4                             7  1030  M D87 305          129
808  7 90          B     PROLIT&7                                 4  1037  B '48              129
809  7 91   PROLIT MCW   @LIT@,KIND-2                           7  1041  M D90 307          129
810  7 92          MCW   FIXFRM&53,PRINT&57                      7  1048  M 053 257          129
811  7 93          MCW   FIXFRM&16,OPCODE-2                      7  1055  M 016 223          130
812  7 94   CONST  B     SETADD                                   4  1062  B S45              130
813  7 95          A     @00@,COUNT                               7  1066  A D92 007          130
814  7 96          C     COUNT,@00@                               7  1073  C 007 D92          130
815  7 97          BL    GOOD                                     5  1080  B '96 T            130
816  7 98          MZ    ZONE-1,STSTMT                            7  1085  Y 188 005          130
817  7 99          B     SETLIT                                   4  1092  B /56              131
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SEQ PG LIN  LABEL   OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
818  8 00   GOOD    BCE   AREADF,PRINT&27,#                        8  1096  B /83 227 #        131
819  8 01          BWZ   AREADF,FIXFRM&4,B                       8  1104  V /83 004 B        131
820  8 02          MCW   OPRAND,HOLDDT-1                        7  1112  M 278 E43          131
821  8 03          BCE   SETLIT,PRINT&27,@                      8  1119  B /56 227 @        131
822  8 04          BWZ   UNSIGN,PRINT&27,2                      8  1127  V /72 227 2        132
823  8 05          MCW   COUNT,XR1                              7  1135  M 007 089          132
824  8 06          MZ    BLANK4,PRINT&27&X1                     7  1142  Y D33 2S7          132
825  8 07          MZ    PRINT&27,HOLDH&X1                      7  1149  Y 227 DZ2          132
826  8 08  SETLIT  B     SETLOC                                 4  1156  B U18              132
827  8 09          B     CONDNS                                 4  1160  B L54              132
828  8 10  LITOUT  B     PRNTLN                                 4  1164  B Y54              133
829  8 11          B     BYPASS                                 4  1168  B S85              133
830  8 12  UNSIGN  MCW   OPRAND,HOLDDT#52                       7  1172  M 278 E44          133
831  8 13          B     SETLIT                                 4  1179  B /56              133
832  8 14  AREADF  BW    *&5,TYPESW                             8  1183  V /95 D58 1        133
833  8 15          B     SETLIT                                 4  1191  B /56              133
834  8 16          MCW   FIXFRM&13,LAB                          7  1195  M 013 219          133
835  8 17          MCW   BLANK4-2,PRINT&31                     7  1202  M D31 231          134
836  8 18          MCW   COUNT                                  4  1209  M 007              134
837  8 19          MCW   @#@                                    4  1213  M E45              134
838  8 20          MCW   @AREA@,KIND-1                          7  1217  M E49 308          134
839  8 21          B     SETLIT                                 4  1224  B /56              134
840  8 22  DADC    B     SETADD                                 4  1228  B S45              134
841  8 23          B     CONDNS                                 4  1232  B L54              134
842  8 24          CS    PRINT&132                              4  1236  / 332              135
843  8 25          CS                                           1  1240  /                  135
844  8 26          B     BYPASS                                 4  1241  B S85              135
845  8 27  *
846  8 28  * SET CONDENSE ADDRESSES FOR CONSTANTS
847  8 29  *
848  8 30  SETADD  SBR   ADDXT&3                                4  1245  H S77              135
849  8 31          ZA    LABADD,LOADAD                          7  1249  ? 061 E83          135
850  8 32          MCW   LOADAD                                 4  1256  M E83              135
851  8 33          S     COUNT,WMADDR                           7  1260  S 007 E78          135
852  8 34          A     &1,WMADDR                              7  1267  A D55 E78          136
853  8 35  ADDXT   B     XXXX                                   4  1274  B 000              136
854  8 36  *
855  8 37  * GET NEXT RECORDS
856  8 38  *
857  8 39  TYPERR  H     XXXX,770                               7  1278  . 000 770          136
858  8 40  BYPASS  B     GET                                    4  1285  B A24              136
859  8 41          BW    ANALWK,TYPESW                          8  1289  V 604 D58 1        136
860  8 42          B     GETORG                                 4  1297  B 600              136
861  8 43  *
862  8 44  * FREE FORM RECORD TO PRINT AREA
863  8 45  *
864  8 46  SETFRE  SBR   FREEXT&3                               4  1301  H T89              136
865  8 47          MCS   ALTNO,ALT                              7  1305  Z I14 204          137
866  8 48          MCS   PAGENO,PG                              7  1312  Z H32 207          137
867  8 49          MZ    PAGENO,PG                              7  1319  Y H32 207          137
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SEQ PG LIN  LABEL   OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
868  8 50          MCW   LINENO,LIN                             7  1326  M H35 211          137
869  8 51          MCW   LABEL,LAB                              7  1333  M H41 219          137
870  8 52          MCW   MNEMON,OPCODE                         7  1340  M H50 225          138
871  8 53          MCW   OPERND,OPRAND                         7  1347  M I02 278          138
872  8 54          BCE   IOGEN,IMAGE&75,Z                       8  1354  B T90 I05 Z        138
873  8 55          BCE   IOGEN,IMAGE&75,Y                       8  1362  B T90 I05 Y        138
874  8 56          BCE   GENSTM,IMAGE&75,C                      8  1370  B T97 I05 C        138
875  8 57          BCE   GENSTM,IMAGE&75,S                      8  1378  B T97 I05 S        139
876  8 58  FREEXT  B     XXXX                                   4  1386  B 000              139
877  8 59  IOGEN   MCW   @IO@,KIND                             7  1390  M E51 309          139
878  8 60  GENSTM  MCW   @GEN@,KIND-2                          7  1397  M E54 307          139
879  8 61          BCE   COMERR,IMAGE&86,B                      8  1404  B J97 I16 B        139
880  8 62          B     FREEXT                                 4  1412  B T86              139
881  8 63          DCW   @ @                                    1  1416                     139
882  8 64  OV1GM   DC    @}@                                    1  1417              GMARK  140
883  8 65  *
884  8 66  * ASSEMBLED INFORMATION TO PRINT AREA
885  8 67  *
886  8 68  SETLOC  SBR   LOCXT&3                                4  1418  H V01              140
887  8 69          MCS   COUNT,CT                               7  1422  Z 007 284          140
888  8 70          MCW   SFXCTR,SUFFIX                          7  1429  M G18 280          140
889  8 71          MN    LABADD,LOCN                            7  1436  D 061 290          140
890  8 72          MCW                                          1  1443  M                  141
891  8 73          BWZ   TSTFR,LABADD-1,2                       8  1444  V U66 060 2        141
892  8 74          MCW   @X@,PRINT&92                          7  1452  M E55 292          141
893  8 75          MZ    BLANK1,PRINT&89                        7  1459  Y D30 289          141
894  8 76  TSTFR   BCE   FOURCH,LABADD-4,0                     8  1466  B V02 057 0        141
895  8 77  TSTLBL  BM    DBLDEF,STLABL                          8  1474  V V13 002 K        141
896  8 78  TSTSTM  BM    STMBAD,STSTMT                          8  1482  V V28 005 K        142
897  8 79          BWZ   STMBAD,STSTMT,S                        8  1490  V V28 005 S        142
898  8 80  LOCXT   B     XXXX                                   4  1498  B 000              142
899  8 81  FOURCH  MCW   BLANK1,LOCN-4                         7  1502  M D30 286          142
900  8 82          B     TSTLBL                                 4  1509  B U74              142
901  8 83  DBLDEF  MCW   @LABEL@,PRINT&120                     7  1513  M E60 320          142
902  8 84          B     BMPERR                                 4  1520  B L28              143
903  8 85          B     TSTSTM                                 4  1524  B U82              143
904  8 86  STMBAD  MCW   @BAD STATEMENT@,PRINT&128             7  1528  M E73 328          143
905  8 87          B     BMPERR                                 4  1535  B L28              143
906  8 88          B     LOCXT                                  4  1539  B U98              143
907  8 89  *
908  8 90  * INSTRUCTION CARD
909  8 91  *
910  8 92  INSTR   MCW   DMOD,INDMOD                           7  1543  M 074 303          143
911  8 93          MCW   BOP,INBOP                              7  1550  M 073 301          143
912  8 94          MCW   AOP,INAOP                              7  1557  M 070 297          144
913  8 95          MCW   OP,INOP                                7  1564  M 067 293          144
914  8 96          MCW   DMOD,HOLDH&8                          7  1571  M 074 E00          144
915  8 97          MCW                                          1  1578  M                  144
916  8 98          MCW                                          1  1579  M                  144
917  8 99          MCW                                          1  1580  M                  144
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SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
 918  9 00          MCW   LABADD,WMADDR#5                             7  1581  M 061 E78          144
 919  9 01          MCW   LABADD,LOADAD#5                            7  1588  M 061 E83          145
 920  9 02          A     COUNT,LOADAD                               7  1595  A 007 E83          145
 921  9 03          S     &1,LOADAD                                  7  1602  S D55 E83          145
 922  9 04          BCE   SYMUND,BOP,#                              8  1609  B L09 073 #        145
 923  9 05          BCE   SYMUND,AOP,#                              8  1617  B L09 070 #        145
 924  9 06          BCE   BADOP,OP,                                 8  1625  B W37 067          146
 925  9 07          B     SETLIT                                     4  1633  B /56              146
 926  9 08  BADOP   MCW   @ OP@,PRINT&123                           7  1637  M E86 323          146
 927  9 09          B     BMPERR                                     4  1644  B L28              146
 928  9 10          B     SETLIT                                     4  1648  B /56              146
 929  9 11  *
 930  9 12  * DEFINE AREA CARDS
 931  9 13  *
 932  9 14  DA      BCE   HEADER,TYPE,0                              8  1652  B X41 075 0        146
 933  9 15          MCW   SUPADD,WMADDR                              7  1660  M 066 E78          147
 934  9 16          MCW   @FIELD@,KIND                               7  1667  M E91 309          147
 935  9 17          BWZ   SETDA,TYPE,B                              8  1674  V W93 075 B        147
 936  9 18          MCW   @SBF@,KIND-2                              7  1682  M E94 307          147
 937  9 19          B     ORGXT                                      4  1689  B K62              147
 938  9 20  SETDA   B     SETLOC                                     4  1693  B U18              147
 939  9 21          B     CONDNS                                     4  1697  B L54              148
 940  9 22          B     PRNTLN                                     4  1701  B Y54              148
 941  9 23  BYPDA   B     GET                                        4  1705  B A24              148
 942  9 24          BCE   RPTOUT,TYPE,'                             8  1709  B X21 075 '        148
 943  9 25          B     GETORG                                     4  1717  B 600              148
 944  9 26  RPTOUT  MCW   SUPADD,WMADDR                             7  1721  M 066 E78          148
 945  9 27          B     CONDNS                                     4  1728  B L54              148
 946  9 28          CS    PRINT&132                                  4  1732  / 332              149
 947  9 29          CS                                               1  1736  /                  149
 948  9 30          B     BYPDA                                      4  1737  B X05              149
 949  9 31  HEADER  BWZ   BADDA,FIXFRM&4,B                          8  1741  V Y24 004 B        149
 950  9 32          B     SETLOC                                     4  1749  B U18              149
 951  9 33  NXTRPT  MN    SUPADD,PRINT&97                            7  1753  D 066 297          149
 952  9 34          MCW                                              1  1760  M                  149
 953  9 35          MCW   LABADD,WMADDR                             7  1761  M 061 E78          150
 954  9 36          B     CONDNS                                     4  1768  B L54              150
 955  9 37          B     GET                                        4  1772  B A24              150
 956  9 38          C     FIXFRM&16,@DA @                            7  1776  C 016 E97          150
 957  9 39          BU    PNTDA                                      5  1783  B X96 /            150
 958  9 40          BCE   NXTRPT,TYPE,'                             8  1788  B X53 075 '        150
 959  9 41  PNTDA   BCE   ADDR4K,PRINT&93,0                         8  1796  B Y39 293 0        151
 960  9 42          C     PRINT&97,OBJCOR                            7  1804  C 297 C09          151
 961  9 43          BL    PUADSW                                     5  1811  B K97 T            151
 962  9 44          B     PRNTLN                                     4  1816  B Y54              151
 963  9 45          B     GETORG                                     4  1820  B 600              151
 964  9 46  BADDA   MCW   @ NO B X L@,PRINT&129                     7  1824  M F06 329          151
 965  9 47          B     BMPERR                                     4  1831  B L28              151
 966  9 48          B     HEADER&8                                   4  1835  B X49              152
 967  9 49  ADDR4K  SBR   AD4KXT&3                                  4  1839  H Y53              152
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SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
 968  9 50          MCW   BLANK1,PRINT&93                            7  1843  M D30 293          152
 969  9 51  AD4KXT  B     XXXX                                       4  1850  B 000              152
 970  9 52  *
 971  9 53  * PRINT STATEMENTS
 972  9 54  *
 973  9 55  PRNTLN  SBR   PRNTXT&3                                   4  1854  H Z50              152
 974  9 56          BCE   DOPNT,LOCN,                               8  1858  B Y86 290          152
 975  9 57          BCE   DOPNT,TYPEA,7                            8  1866  B Y86 D59 7        152
 976  9 58          C     LOCN,@ 0081@                               7  1874  C 290 F11          153
 977  9 59          BH    ADDERR                                     5  1881  B J57 U            153
 978  9 60  DOPNT   BW    *&2,LSTOP                                  8  1886  V Y95 C70 1        153
 979  9 61          W                                                1  1894  2                  153
 980  9 62          B     WTAPE                                      4  1895  B J24              153
 981  9 63          BCE   CLR,TYPEA,7                               8  1899  B Z19 D59 7        153
 982  9 64          C     LOCN,OBJCOR                                7  1907  C 290 C09          154
 983  9 65          BL    PUADSW                                     5  1914  B K97 T            154
 984  9 66  CLR     CS    PRINT&132                                  4  1919  / 332              154
 985  9 67          CS                                               1  1923  /                  154
 986  9 68          BCE   PRNTXT,TYPE,3                            8  1924  B Z47 075 3        154
 987  9 69          A     &1,LINCT#2                                 7  1932  A D55 F13          154
 988  9 70          BCE   OVRFLO,LINCT-1,5                          8  1939  B Z51 F12 5        155
 989  9 71  PRNTXT  B     XXXX                                       4  1947  B 000              155
 990  9 72  OVRFLO  B     PRTHDG                                     4  1951  B !00              155
 991  9 73          S     LINCT                                      4  1955  S F13              155
 992  9 74          B     PRNTXT                                     4  1959  B Z47              155
 993  9 75  GETOV1  RTW   XTRATP,ISIOCS                            8  1963  L %U6 794 R        155
 994  9 76          NOP   XXXX                                       4  1971  N 000              155
 995  9 77          BER   TPERR                                      5  1975  B 334 L            156
 996  9 78          CW    OV1GM                                      4  1980  ) U17              156
 997  9 79          RWD   XTRATP                                     5  1984  U %U6 R            156
 998  9 80          B     BYPASS                                     4  1989  B S85              156
 999  9 81          DCW   @ @                                        1  1993                     156
1000  9 82  ENDE1   DCW   @}@                                        1  1994           GMARK     156
1001  9 83          XFR   LIBRN                                            B 000              157
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 SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD

1002  9 84          JOB   1401 AUTOCODER-PASS 7 RIGHT MAIN LINE     -VERSION 3
1003  9 85          ORG   2000                                                    2000
1004  9 86   *
1005  9 87   * PRINT PAGE HEADING
1006  9 88   *
1007  9 89   PRTHDG SBR   PHDGXT&3                                           4  2000  H J23             160
1008  9 90          MCW   @PAGE@,PRINT&109                                   7  2004  M F17 309         160
1009  9 91          A     &1,NUMBER                                          7  2011  A D55 C84         160
1010  9 92          MCS   NUMBER,PRINT&114                                   7  2018  Z C84 314         160
1011  9 93          MCW   JOB,OPRAND                                        7  2025  M C62 278         160
1012  9 94          MCW   PUNCH&80,LOCN                                      7  2032  M 180 290         160
1013  9 95          BW    WTHEAD,LSTOP                                       8  2039  V !52 C70 1       161
1014  9 96          CC    1                                                  2  2047  F 1               161
1015  9 97          W                                                        1  2049  2                 161
1016  9 98             NK               WAS CC K IN REV 0                   2  2050  N K               161
1017  9 99   WTHEAD MCW   @1@,200                                           7  2052  M D29 200         161
1018 10 00          B     WTAPE                                              4  2059  B J24             161
1019 10 01          CS    PRINT&132                                          4  2063  / 332             161
1020 10 02          CS                                                       1  2067  /                 162
1021 10 03          MCW   @SFX CT  LOCN  INSTRUCTION TYPE  CARD@,PRINT&114  7  2068  M F53 314         162
1022 10 04          MCW   @SEQ PG LIN  LABEL  OP    OPERANDS@,PRINT&34      7  2075  M F86 234         162
1023 10 05          BW    *&2,LSTOP                                          8  2082  V !91 C70 1       162
1024 10 06          W                                                        1  2090  2                 162
1025 10 07          MCW   @0@,200                                          7  2091  M F87 200         162
1026 10 08          B     WTAPE                                              4  2098  B J24             162
1027 10 09          CS    PRINT&132                                          4  2102  / 332             163
1028 10 10          CS                                                       1  2106  /                 163
1029 10 11          BW    *&2,LSTOP                                          8  2107  V J16 C70 1       163
1030 10 12          W                                                        1  2115  2                 163
1031 10 13          B     WTAPE                                              4  2116  B J24             163
1032 10 14   PHDGXT B     XXXX                                               4  2120  B 000             163
1033 10 15   WTAPE  SBR   WTXT&3                                             4  2124  H J56             163
1034 10 16          BW    WTXT,TAPOP                                         8  2128  V J53 C69 1       164
1035 10 17          WT    3,200                                              8  2136  M %U3 200 W       164
1036 10 18          NOP   XXXX                                               4  2144  N 000             164
1037 10 19          BER   TPERR                                              5  2148  B 334 L           164
1038 10 20   WTXT   B     XXXX                                               4  2153  B 000             164
1039 10 21   ADDERR MCW   @ ADDR@,PRINT&132                                  7  2157  M F92 332         164
1040 10 22          B     BMPERR                                             4  2164  B L28             165
1041 10 23          B     DOPNT                                              4  2168  B Y86             165
1042 10 24   *
1043 10 25   * COMMENTS CARD
1044 10 26   *
1045 10 27   SETCOM B     SETFRE                                             4  2172  B T01             165
1046 10 28          MCW   OPERND,PRINT&80                                    7  2176  M I02 280         165
1047 10 29          MCW                                                      1  2183  M                 165
1048 10 30          MCW                                                      1  2184  M                 165
1049 10 31   COMXT  B     PRNTLN                                             4  2185  B Y54             165
1050 10 32          B     READOG                                             4  2189  B B09             166
1051 10 33          B     ANALOG                                             4  2193  B 655             166
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 SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD

1052 10 34   COMERR MCW   @MACRO ERROR@,PRINT&126                            7  2197  M G03 326         166
1053 10 35          B     BMPERR                                             4  2204  B L28             166
1054 10 36          B     FREEXT                                             4  2208  B T86             166
1055 10 37   *
1056 10 38   * ORG, LTORG CARDS
1057 10 39   *
1058 10 40   ORG    MCW   SUPADD,LABADD                                      7  2212  M 066 061         166
1059 10 41          MCW   ORGADD,SUPADD                                      7  2219  M 032 066         166
1060 10 42          BWZ   BADORG,FIXFRM&1,2                                  8  2226  V K70 001 2       167
1061 10 43   ORGOUT MN    SUPADD,PRINT&97                                    7  2234  D 066 297         167
1062 10 44          MCW                                                      1  2241  M                 167
1063 10 45          BCE   ADDR4K,PRINT&93,0                                 8  2242  B Y39 293 0       167
1064 10 46          C     PRINT&97,OBJCOR                                    7  2250  C 297 C09         167
1065 10 47          BL    PUADSW                                             5  2257  B K97 T           167
1066 10 48   ORGXT  B     SETLOC                                             4  2262  B U18             168
1067 10 49          B     LITOUT                                             4  2266  B /64             168
1068 10 50   BADORG MCW   @ UNDEF ORG@,PRINT&130                            7  2270  M G13 330         168
1069 10 51          B     BMPERR                                             4  2277  B L28             168
1070 10 52          B     ORGOUT                                             4  2281  B K34             168
1071 10 53   *
1072 10 54   * DS, EQU CARDS
1073 10 55   *
1074 10 56   DS     BCE   SYMUND,AOP,#                                       8  2285  B L09 070 #       168
1075 10 57          B     ORGXT                                              4  2293  B K62             168
1076 10 58   *
1077 10 59   * ERROR - ADDRESS EXCEEDS CORE
1078 10 60   *
1079 10 61   PUADSW SBR   ADSWXT&3                                           4  2297  H L08             169
1080 10 62          CW    ADDRSW                                             4  2301  ) D34             169
1081 10 63   ADSWXT B     XXXX                                               4  2305  B 000             169
1082 10 64   *
1083 10 65   * ERROR - UNDEFINED SYMBOL
1084 10 66   *
1085 10 67   SYMUND SBR   UNDXT&3                                            4  2309  H L27             169
1086 10 68          MCW   @ SYM@,PRINT&127                                   7  2313  M G17 327         169
1087 10 69          B     BMPERR                                             4  2320  B L28             169
1088 10 70   UNDXT  B     XXXX                                               4  2324  B 000             169
1089 10 71   *
1090 10 72   * BUMP NUMBER OF ERRORS
1091 10 73   *
1092 10 74   BMPERR SBR   ERREXT&3                                           4  2328  H L42             170
1093 10 75          A     &1,ERRCNT                                          7  2332  A D55 C66         170
1094 10 76   ERREXT B     XXXX                                               4  2339  B 000             170
1095 10 77   *
1096 10 78   * SUFFIX CARD
1097 10 79   *
1098 10 80   SFX    MCW   IMAGE&21,SFXCTR#1                                  7  2343  M H51 G18         170
1099 10 81          B     LITOUT                                             4  2350  B /64             170
1100 10 82   *
1101 10 83   * CONDENSE ROUTINE
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 SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

1102 10 84   *
1103 10 85   CONDNS SBR   CONDXT&3                                      4  2354  H ?42             170
1104 10 86          CW    BIGSW,DCSW                                    7  2358  ) H17 G48         170
1105 10 87          BM    CONDXT,STSTMT                                 8  2365  V ?39 005 K       171
1106 10 88          BW    PNCHCD,WMSW                                   8  2373  V P62 D56 1       171
1107 10 89   *
1108 10 90   * PROCESS RECORD
1109 10 91   *
1110 10 92   NXTRCD BCE   DOWM,TYPEA,0                                  8  2381  B N39 D59 0       171
1111 10 93          BCE   ENDRTN,TYPEA,3                               8  2389  B '08 D59 3       171
1112 10 94          BWZ   TSTDC,TYPE,B                                 8  2397  V O17 075 B       172
1113 10 95   *
1114 10 96   * TEST ROOM ON CARD
1115 10 97   *
1116 10 98   TSTROM C     COUNT,@39@                                    7  2405  C 007 G20         172
1117 10 99          BL    TSTCON                                        5  2412  B Q91 T           172
1118 11 00          MCW   PNHLOC,ROOMCT#3                               7  2417  M C81 G23         172
1119 11 01          A     COUNT,ROOMCT                                  7  2424  A 007 G23         172
1120 11 02          C     ROOMCT,@039@                                  7  2431  C G23 G26         173
1121 11 03          BL    SETPNH                                        5  2438  B O09 T           173
1122 11 04          BW    RSTCTR,NEWSW#1                                8  2443  V N98 G27 1       173
1123 11 05   *
1124 11 06   * TEST SEQUENCE
1125 11 07   *
1126 11 08          MCW   COUNTR#5,SEQCT#5                              7  2451  M G32 G37         173
1127 11 09          A     COUNT,SEQCT                                   7  2458  A 007 G37         173
1128 11 10          C     LOADAD,SEQCT                                  7  2465  C E83 G37         174
1129 11 11          BU    SETPNH                                        5  2472  B O09 /           174
1130 11 12          A     COUNT,COUNTR                                  7  2477  A 007 G32         174
1131 11 13   *
1132 11 14   * MOVE DATA TO PUNCH AREA
1133 11 15   *
1134 11 16   MVDATA SBR   XR3,HOLDH                                     7  2484  H 099 D92         174
1135 11 17          A     COUNT,XR3                                     7  2491  A 007 099         174
1136 11 18          A     COUNT,PNHLOC                                  7  2498  A 007 C81         175
1137 11 19          MCW   PNHLOC,XR2                                    7  2505  M C81 094         175
1138 11 20          MCW   XXXX&X3,PUNCH&X2                            7  2512  M 0?0 1!0         175
1139 11 21          CW    DATASW#1                                      4  2519  ) G38             175
1140 11 22          BW    FIRST,NEWSW                                   8  2523  V O53 G27 1       175
1141 11 23          BWZ   CNDOUT,TYPE,B                                 8  2531  V ?07 075 B       176
1142 11 24   *
1143 11 25   * SET WORD MARK ADDRESS
1144 11 26   *
1145 11 27   DOWM   MCW   WMADDR,CNVADD#5                               7  2539  M E78 G43         176
1146 11 28          B     CNVRT                                         4  2546  B P16             176
1147 11 29          A     &3,WMLOC                                      7  2550  A G44 C75         176
1148 11 30          MCW   WMLOC,XR1                                     7  2557  M C75 089         176
1149 11 31          MCW   CNVADD,WMADDR-2                              7  2564  M G43 E76         177
1150 11 32          MCW   WMADDR-2,XXXX&X1                            7  2571  M E76 0'0         177
1151 11 33          C     XR1,&WMSTR-3                                  7  2578  C 089 G47         177
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 SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD

1152 11 34          BU    CNDOUT                                        5  2585  B ?07 /           177
1153 11 35          SW    WMSW                                          4  2590  , D56             177
1154 11 36          B     CNDOUT                                        4  2594  B ?07             177
1155 11 37   RSTCTR MCW   LOADAD,COUNTR                                7  2598  M E83 G32         178
1156 11 38          B     MVDATA                                        4  2605  B M84             178
1157 11 39   SETPNH B     PNCHCD                                        4  2609  B P62             178
1158 11 40          B     NXTRCD                                        4  2613  B L81             178
1159 11 41   TSTDC  BW    COMPWM,NEWSW                                  8  2617  V O29 G27 1       178
1160 11 42          B     TSTROM                                        4  2625  B M05             178
1161 11 43   COMPWM C     WMLOC,AWMSTR                                  7  2629  C C75 C78         178
1162 11 44          BE    TSTROM                                        5  2636  B M05 S           179
1163 11 45          SW    DCSW#1                                        4  2641  , G48             179
1164 11 46          B     PNCHCD                                        4  2645  B P62             179
1165 11 47          B     TSTROM                                        4  2649  B M05             179
1166 11 48   *
1167 11 49   * FIRST DATA ON CARD
1168 11 50   *
1169 11 51   FIRST  CW    NEWSW                                         4  2653  ) G27             179
1170 11 52          BWZ   PRODC,TYPE,B                                 8  2657  V O69 075 B       179
1171 11 53          B     CNDOUT                                        4  2665  B ?07             179
1172 11 54   *
1173 11 55   * CONDENSE DC CARDS
1174 11 56   *
1175 11 57   PRODC  MCW   @)@,PUNCH&47                                  7  2669  M G49 147         180
1176 11 58          MCW   WMADDR,CNVADD                                 7  2676  M E78 G43         180
1177 11 59          B     CNVRT                                         4  2683  B P16             180
1178 11 60          MCW   CNVADD,WMADDR-2                              7  2687  M G43 E76         180
1179 11 61          MCW   WMADDR-2,WMSTR-15                            7  2694  M E76 C96         180
1180 11 62          MCW   WMADDR-2                                     4  2701  M E76             180
1181 11 63          A     &6,WMLOC                                      7  2705  A G50 C75         181
1182 11 64          B     CNDOUT                                        4  2712  B ?07             181
1183 11 65   *
1184 11 66   * CONVERT 5 TO 3 DIGIT ADDRESS
1185 11 67   *
1186 11 68   CNVRT  SBR   CNVXT&3                                       4  2716  H P61             181
1187 11 69          BAV   *&1                                           5  2720  B P25 Z           181
1188 11 70   ADDAGN A     &96,CNVADD-3                                  7  2725  A G52 G40         181
1189 11 71          BAV   ADDAGN                                        5  2732  B P25 Z           181
1190 11 72          MZ    CNVADD-4,CNVADD                               7  2737  Y G39 G43         181
1191 11 73          MN    CNVADD-3,*&4                                  7  2744  D G40 P54         182
1192 11 74          MZ    ZONE,CNVADD-2                                 7  2751  Y 189 G41         182
1193 11 75   CNVXT  B     XXXX                                          4  2758  B 000             182
1194 11 76   *
1195 11 77   * PUNCH A CARD
1196 11 78   *
1197 11 79   PNCHCD SBR   PNHXT&3                                       4  2762  H Q90             182
1198 11 80          BW    EDIT,DCSW                                     8  2766  V Q07 G48 1       182
1199 11 81          BW    EDIT,DATASW                                   8  2774  V Q07 G38 1       182
1200 11 82          MCW   COUNTR,CNVADD                                7  2782  M G32 G43         183
1201 11 83          B     CNVRT                                         4  2789  B P16             183
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD

1202 11 84          MCW   CNVADD,WMSTR-21                                     7  2793  M G43 C90          183
1203 11 85          MCW   PNHLOC,WMSTR-24                                     7  2800  M C81 C87          183
1204 11 86   EDIT   MCE   WMSTR,PUNCH&71                                      7  2807  E D11 171          183
1205 11 87          MN    @0@,PUNCH&41                                        7  2814  D F87 141          183
1206 11 88   TSTPCH BCE   *&2,CONDSW,0                                       8  2821  B Q30 C10 0        184
1207 11 89          P                                                         1  2829  4                  184
1208 11 90          B     WTAP2                                               4  2830  B ?43              184
1209 11 91   *
1210 11 92   * RESET COUNTERS AND SWITCHES
1211 11 93   *
1212 11 94   NEWCRD A     &1,PUNCH&75                                         7  2834  A D55 175          184
1213 11 95          CS    PUNCH&71                                            4  2841  / 171              184
1214 11 96          LCA   @L0     ,      ,      ,      1   @,PUNCH&71        7  2845  L G84 171          184
1215 11 97          SW    NEWSW,DATASW                                        7  2852  , G27 G38          184
1216 11 98          CW    WMSW,DCSW                                           7  2859  ) D56 G48          185
1217 11 99          MCW   @000@,PNHLOC                                       7  2866  M G87 C81          185
1218 12 00          MCW   AWMSTR,WMLOC                                       7  2873  M C78 C75          185
1219 12 01          MCW   @00100104004004004004004004004004@,WMSTR          7  2880  M H14 D11          185
1220 12 02   PNHXT  B     XXXX                                                4  2887  B 000              185
1221 12 03   *
1222 12 04   * CONSTANT GREATER THAN 39 CHARACTERS*
1223 12 05   *
1224 12 06   TSTCON BW    *&5,NEWSW                                           8  2891  V R03 G27 1        186
1225 12 07          B     PNCHCD                                              4  2899  B P62              186
1226 12 08          MCW   COUNT,HOLDCT#2                                      7  2903  M 007 H16          186
1227 12 09          MCW   LOADAD,COUNTR                                       7  2910  M E83 G32          186
1228 12 10          MCW   @39@,COUNT                                          7  2917  M G20 007          186
1229 12 11          S     @39@,HOLDCT                                         7  2924  S G20 H16          187
1230 12 12          S     HOLDCT,COUNTR                                       7  2931  S H16 G32          187
1231 12 13          MZ    ZONE-3,HOLDCT                                       7  2938  Y 186 H16          187
1232 12 14          SW    BIGSW#1                                             4  2945  , H17              187
1233 12 15          MCW   WMADDR,SAVEWM#5                                     7  2949  M E78 H22          187
1234 12 16          B     MVDATA                                              4  2956  B M84              187
1235 12 17   BIGRN  B     PNCHCD                                              4  2960  B P62              188
1236 12 18          CW    BIGSW                                               4  2964  ) H17              188
1237 12 19          MCW   HOLDCT,COUNT                                       7  2968  M H16 007          188
1238 12 20          MCW   @A@,TYPE                                            7  2975  M H23 075          188
1239 12 21          MCW   HOLDDT,HOLDDT-39                                    7  2982  M E44 E05          188
1240 12 22          MCW   SAVEWM,WMADDR                                       7  2989  M H22 E78          188
1241 12 23          A     @39@,WMADDR                                         7  2996  A G20 E78          189
1242 12 24          B     RSTCTR                                              4  3003  B N98              189
1243 12 25   *
1244 12 26   * EXIT FROM CONDENSE ROUTINE*
1245 12 27   *
1246 12 28   CNDOUT MCS   PUNCH&75,CARDNO                                     7  3007  Z 175 314          189
1247 12 29          S     XR3&1                                               4  3014  S 100              189
1248 12 30          S                                                         1  3018  S                  189
1249 12 31          S                                                         1  3019  S                  189
1250 12 32          BW    BIGRN,BIGSW                                         8  3020  V R60 H17 1        189
1251 12 33          MCW   BLANK1,HOLDDT                                       7  3028  M D30 E44          190
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 SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD

1252 12 34          MCW   HOLDDT                                              4  3035  M E44              190
1253 12 35   CONDXT B     XXXX                                                4  3039  B 000              190
1254 12 36   WTAP2  SBR   WT2XT&3                                             4  3043  H ?82              190
1255 12 37          BW    WT2XT,TAPOP                                         8  3047  V ?79 C69 1        190
1256 12 38          MCW   @&@,100                                             7  3055  M H24 100          190
1257 12 39          WT    3,100                                               8  3062  M %U3 100 W        191
1258 12 40          NOP   XXXX                                                4  3070  N 000              191
1259 12 41          BER   TPERR                                               5  3074  B 334 L            191
1260 12 42   WT2XT  B     XXXX                                                4  3079  B 000              191
1261 12 43   *
1262 12 44   * SEQUENCE ERROR ON INPUT RECORDS
1263 12 45   *
1264 12 46   SEQERR H     XXXX,777                                            7  3083  . 000 777          191
1265 12 47          B     SEQERR                                              4  3090  B ?83              191
1266 12 48   GETOV2 RTW   SYSTAP,ISIOCS                                       8  3094  L %U1 794 R        192
1267 12 49          NOP   XXXX                                                4  3102  N 000              192
1268 12 50          BER   TPERR                                               5  3106  B 334 L            192
1269 12 51          CW    OV2GM                                               4  3111  ) T32              192
1270 12 52          BSP   SYSTAP                                              5  3115  U %U1 B            192
1271 12 53          B     EXEND                                               4  3120  B 794              192
1272 12 54   *
1273 12 55   * GET RECORD FROM WORKING TAPE
1274 12 56   *
1275 12 57   GET    SBR   WORKXT&3                                            4  3124  H B08              192
1276 12 58          C     BLKCT,KBLKNG                                        7  3128  C C00 C04          193
1277 12 59          BU    NXTREC                                              5  3135  B A68 /            193
1278 12 60          S     HOLDA                                               4  3140  S C01              193
1279 12 61          SBR   LGTCK&6,INPUT5&13                                   7  3144  H B80 I31          193
1280 12 62          RT    WORKTP,INPUT5                                       8  3151  M %U5 I18 R        193
1281 12 63          B     CHKLGT                                              4  3159  B B59              193
1282 12 64          BER   TPERR                                               5  3163  B 334 L            194
1283 12 65   NXTREC A     &80,BLKCT                                           7  3168  A H26 C00          194
1284 12 66          MCW   BLKCT,XR3                                           7  3175  M C00 099          194
1285 12 67          MCW   FIXINP,FIXFRM&80                                   7  3182  M IA7 080          194
1286 12 68          CHAIN 10                                                                 MACRO
1287                MCW                                                     1  3189  M                  GEN    194
1288                MCW                                                     1  3190  M                  GEN    194
1289                MCW                                                     1  3191  M                  GEN    194
1290                MCW                                                     1  3192  M                  GEN    195
1291                MCW                                                     1  3193  M                  GEN    195
1292                MCW                                                     1  3194  M                  GEN    195
1293                MCW                                                     1  3195  M                  GEN    195
1294                MCW                                                     1  3196  M                  GEN    195
1295                MCW                                                     1  3197  M                  GEN    195
1296                MCW                                                     1  3198  M                  GEN    195
1297 12 69          S     XR3&1                                               4  3199  S 100              196
1298 12 70          S                                                         1  3203  S                  196
1299 12 71          S                                                         1  3204  S                  196
1300 12 72   WORKXT B     XXXX                                                4  3205  B 000              196
1301 12 73   *
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD

1302 12 74   * READ ORIGINAL TAPE
1303 12 75   *
1304 12 76   READOG SBR   ORIGXT&3                                          4  3209  H B58              196
1305 12 77          MCW   BLANK1,IMAGE&21                                  7  3213  M D30 H51          196
1306 12 78          S     IMAGE&20                                         4  3220  S H50              196
1307 12 79          S                                                      1  3224  S                  197
1308 12 80          S                                                      1  3225  S                  197
1309 12 81          S                                                      1  3226  S                  197
1310 12 82          SBR   LGTCK&6,INPUT4&12                                7  3227  H B80 H43          197
1311 12 83          RT    ORIGTP,INPUT4                                    8  3234  M %U4 H31 R        197
1312 12 84          B     CHKLGT                                           4  3242  B B59              197
1313 12 85          BER   TPERR                                            5  3246  B 334 L            197
1314 12 86          S     XR2&1                                            4  3251  S 095              198
1315 12 87   ORIGXT B     XXXX                                             4  3255  B 000              198
1316 12 88   *
1317 12 89   * CHECK FOR SHORT RECORDS
1318 12 90   *
1319 12 91   CHKLGT SBR   XR2                                              4  3259  H 094              198
1320 12 92          SBR   LGTXT&3                                          4  3263  H B97              198
1321 12 93          MZ    @B@,XR2                                          7  3267  Y D12 094          198
1322 12 94   LGTCK  BCE   4000-12&X2,XXXX,}                               8  3274  B IQ8 000 } GMARK  198
1323 12 95          CHAIN 12                                                                 MACRO
1324                BCE                                                    1  3282  B            GEN   198
1325                BCE                                                    1  3283  B            GEN   199
1326                BCE                                                    1  3284  B            GEN   199
1327                BCE                                                    1  3285  B            GEN   199
1328                BCE                                                    1  3286  B            GEN   199
1329                BCE                                                    1  3287  B            GEN   199
1330                BCE                                                    1  3288  B            GEN   199
1331                BCE                                                    1  3289  B            GEN   199
1332                BCE                                                    1  3290  B            GEN   200
1333                BCE                                                    1  3291  B            GEN   200
1334                BCE                                                    1  3292  B            GEN   200
1335                BCE                                                    1  3293  B            GEN   200
1336 12 96   LGTXT  B     XXXX                                             4  3294  B 000              200
1337 12 97   HOLDA  DCW   &0000                                            4  3301                     200
1338 12 98   BLKCT  EQU   HOLDA-1                                             3300
1339 12 99   KBLKNG DCW   @080@                                            3  3304                     200
1340 13 00   OBJCOR DCW   @ 3999@                                          5  3309                     201
1341 13 01   CONDSW DCW   @0@                                              1  3310                     201
1342 13 02   JOB    DCW   #52                                             52  3362                     203
1343 13 03   ERRCNT DCW   @0000@                                           4  3366                     203
1344 13 04          DCW   @ @                                              1  3367                     203
1345 13 05   SSAVE  DCW   @ @                                              1  3368                     203
1346 13 06   TAPOP  DCW   @ @                                              1  3369                     203
1347 13 07   LSTOP  DCW   @ @                                              1  3370                     204
1348 13 08   NOOUT  DCW   @ @                                              1  3371                     204
1349 13 09   SAVCON EQU   HOLDA-3                                             3298
1350 13 10   GMSAVE DC    @}@                                              1  3372             GMARK  204
1351 13 11   WMLOC  DSA   WMSTR-21                                         3  3375  C90                204
```



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

1352 13 12   AWMSTR DSA   WMSTR-21                                         3  3378  C90                204
1353 13 13   PNHLOC DCW   @000@                                           3  3381                     204
1354 13 14   NUMBER DCW   @001@                                           3  3384                     204
1355 13 15   WMSTR  DCW   @0010010400400400400400400400@                 27  3411                     205
1356 13 16          LTORG *                                                          3412
                    DCW   @B@                                              1  3412             LIT   205
                    DCW   @/     080@                                      9  3421             LIT   205
                    DCW   @/   080@                                        7  3428             LIT   206
                    DCW   @1@                                              1  3429             LIT   206
             BLANK4 DCW   #04                                              4  3433             AREA  206
             ADDRSW DCW   #01                                              1  3434             AREA  206
                    DCW   @ERRORS@                                         6  3440             LIT   206
                    DCW   @   1@                                           4  3444             LIT   206
                    DCW   @N000000@                                        7  3451             LIT   206
                    DCW   @JOB@                                            3  3454             LIT   207
                    DCW   &1                                               1  3455             LIT   207
             WMSW   DCW   #01                                              1  3456             AREA  207
                    DCW   &5                                               1  3457             LIT   207
             TYPESW DCW   #01                                              1  3458             AREA  207
             TYPEA  DCW   #01                                              1  3459             AREA  207
                    DCW   @IOCS@                                           4  3463             LIT   207
                    DCW   @MACRO@                                          5  3468             LIT   208
                    DCW   @OVERCALL@                                       8  3476             LIT   208
                    DCW   @ADCON@                                          5  3481             LIT   208
                    DCW   @RMARK@                                          5  3486             LIT   208
                    DCW   @G@                                              1  3487             LIT   208
                    DCW   @LIT@                                            3  3490             LIT   208
                    DCW   @00@                                             2  3492             LIT   208
             HOLDDT DCW   #52                                             52  3544             AREA  210
                    DCW   @#@                                              1  3545             LIT   210
                    DCW   @AREA@                                           4  3549             LIT   210
                    DCW   @IO@                                             2  3551             LIT   210
                    DCW   @GEN@                                            3  3554             LIT   210
                    DCW   @X@                                              1  3555             LIT   211
                    DCW   @LABEL@                                          5  3560             LIT   211
                    DCW   @BAD STATEMENT@                                 13  3573             LIT   211
             WMADDR DCW   #05                                              5  3578             AREA  211
             LOADAD DCW   #05                                              5  3583             AREA  211
                    DCW   @ OP@                                            3  3586             LIT   211
                    DCW   @FIELD@                                          5  3591             LIT   211
                    DCW   @SBF@                                            3  3594             LIT   212
                    DCW   @DA @                                            3  3597             LIT   212
                    DCW   @ NO B X L@                                      9  3606             LIT   212
                    DCW   @ 0081@                                          5  3611             LIT   212
             LINCT  DCW   #02                                              2  3613             AREA  212
                    DCW   @PAGE@                                           4  3617             LIT   212
                    DCW   @SFX CT  LOCN  INSTRUCTION TYPE  CARD@          36  3653             LIT   213
                    DCW   @SEQ PG LIN  LABEL  OP    OPERANDS@             33  3686             LIT   214
                    DCW   @0@                                              1  3687             LIT   214
                    DCW   @ ADDR@                                          5  3692             LIT   214
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 SEQ PG LIN  LABEL  OP    OPERANDS                                        SFX CT  LOCN  INSTRUCTION TYPE  CARD

                    DCW   @MACRO ERROR@                                     11  3703              LIT   215
                    DCW   @ UNDEF ORG@                                      10  3713              LIT   215
                    DCW   @ SYM@                                             4  3717              LIT   215
               SFXCTR DCW   #01                                              1  3718              AREA  215
                    DCW   @39@                                               2  3720              LIT   215
               ROOMCT DCW   #03                                              3  3723              AREA  215
                    DCW   @039@                                              3  3726              LIT   215
               NEWSW  DCW   #01                                              1  3727              AREA  216
               COUNTR DCW   #05                                              5  3732              AREA  216
               SEQCT  DCW   #05                                              5  3737              AREA  216
               DATASW DCW   #01                                              1  3738              AREA  216
               CNVADD DCW   #05                                              5  3743              AREA  216
                    DCW   &3                                                 1  3744              LIT   216
                    DCW   &WMSTR-3                                           3  3747  D08         ADCON 216
               DCSW   DCW   #01                                              1  3748              AREA  217
                    DCW   @)@                                                1  3749              LIT   217
                    DCW   &6                                                 1  3750              LIT   217
                    DCW   &96                                                2  3752              LIT   217
                    DCW   @L0    ,     ,     ,     1   @                    32  3784              LIT   217
                    DCW   @000@                                              3  3787              LIT   218
                    DCW   @00100104004004004004004004004004004004004004004@ 27  3814              LIT   218
               HOLDCT DCW   #02                                              2  3816              AREA  218
               BIGSW  DCW   #01                                              1  3817              AREA  218
               SAVEWM DCW   #05                                              5  3822              AREA  218
                    DCW   @A@                                                1  3823              LIT   218
                    DCW   @&@                                                1  3824              LIT   219
                    DCW   &80                                                2  3826              LIT   219
1357 13 17  ENDE2  DCW   @)@                                                1  3827              GMARK 219
1358 13 18  BLANK1 EQU   BLANK4-3                                              3430
1359 13 19  HOLDH  EQU   HOLDDT-52                                             3492
1360 13 20         EX    LIBRN                                                      B 000             220
1361 13 21         END   LIBRN                                                      / 000 080
```


SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
AD4KXT	1850	ADCON	944	ADD1	1168	ADD2	1179	ADD4	1190	ADDAGN	2725	ADDERR	2157
ADDR4K	1839	ADDRSW	3434	ADDXT	1274	ADSWXT	2305	ALT	204	ALTER	80	ALTNO	3914
ANALOG	655	ANALWK	604	AOP	70	AREADF	1183	AWMSTR	3378	BADCTL	540	BADDA	1824
BADOP	1637	BADORG	2270	BADPRO	814	BIGRN	2960	BIGSW	3817	BLANK1	3430	BLANK4	3433
BLKCT	3300	BMPERR	2328	BOP	73	BSP1	370	BSP2	414	BSP2I	2483	BSPI	2439
BYPASS	1285	BYPDA	1705	CALERR	828	CARDNO	314	CHKLG	1340	CHKLGT	3259	CHKOP	2126
CKCTL	2078	CLR	1919	CLRLEG	2620	CLRST2	683	CNDOUT	3007	CNDSW1	2633	CNVADD	3743
CNVRT	2716	CNVXT	2758	COMERR	2197	COMPWM	2629	COMXT	2185	CONDNS	2354	CONDOP	400
CONDSW	3310	CONDXT	3039	CONST	1062	CORSIZ	2632	COUNT	7	COUNTR	3732	CT	284
CTLALT	2733	CTLLIN	2738	CTLPAG	2735	CTLPNT	1042	CTLSAV	2729	CTLSW	2719	CTLSW1	2739
DA	1652	DADC	1228	DATASW	3738	DBLDEF	1513	DCSW	3748	DMOD	74	DOHEAD	818
DOIDT	862	DOJOB	843	DOPNT	1886	DOWM	2539	DS	2285	DSA	969	EDIT	2807
ENDE1	1994	ENDE2	3827	ENDIN	3998	ENDIN2	1799	ENDRTN	1008	EOJOB	928	ERRCNT	3366
ERRCT1	2689	ERRCTL	1035	ERREXT	2339	EXCUTE	1057	EXEND	794	EXIT	1311	EXOUT	1096
FIRST	2653	FIXFRM	0	FIXINP	3917+X3	FOURCH	1502	FREEXT	1386	GENSTM	1397	GET	3124
GETMAN	2222	GETORG	600	GETOV1	1963	GETOV2	3094	GM	333	GMSAVE	3372	GOOD	1096
GRPMK3	2695	HEADER	1741	HOLDA	3301	HOLDA1	2624	HOLDCT	3816	HOLDDT	3544	HOLDH	3492
IMAGE	3830	INAOP	297	INBOP	301	INDMOD	303	INIT2	201	INITAP	%U0	INOP	293
INPUT4	3831	INPUT5	3918	INST2	499	INST2I	2568	INSTR	1543	IOGEN	1390	IS12K	669
IS4K	544	IS8K	651	ISIOCS	794	JOB	3362	JOBALT	2704	JOBLAB	2715	JOBLIN	2709
JOBPAG	2706	JOBSAV	2685	JOBSW	2700	KBLK1	2627	KBLKNG	3304	KIND	309	LAB	219
LABADD	61	LABEL	3841	LGTCK	3274	LGTXT	3294	LIBRN	0	LIN	211	LINCT	3613
LINENO	3835	LITOUT	1164	LITRAL	999	LOADAD	3583	LOCN	290	LOCXT	1498	LSTAP	1201
LSTAPE	2724	LSTCD	1211	LSTOP	3370	LSTOP1	2693	MAPCNT	805	MNEMON	3850	MVDATA	2484
NEWCRD	2834	NEWSW	3727	NOCARD	992	NOCNTL	1050	NOOUT	3371	NOOUT1	2694	NUMBER	3384
NXTRCD	2381	NXTREC	3168	NXTRPT	1753	OBJCOR	3309	OBJSIZ	2721	OP	67	OPCODE	225
OPERND	3902	OPNSV1	2690	OPNTAP	2214	OPRAND	278	ORG	2212	ORGADD	32	ORGOUT	2234
ORGXT	2262	ORIGTP	%U4	ORIGXT	3255	OUTEX	1226	OUTOPN	2722	OV1GM	1417	OV2GM	1332
OVER4K	464	OVRFLO	1951	PAGENO	3832	PG	207	PHDGXT	2120	PLUS1	539	PLUS9	538
PNCHCD	2762	PNHLOC	3381	PNHXT	2887	PNT2XT	1099	PNTDA	1796	PRINT	200	PRINT2	1061
PRNTLN	1854	PRNTXT	1947	PRODC	2669	PROLIT	1041	PROSIZ	2720	PROWRK	881	PRTHDG	2000
PRTPNH	1217	PUADSW	2297	PUNCH	100	PUNCH1	1286	RDRERI	2476	RDRERR	407	READ4	1315
READ4X	1336	READCI	2783	READCT	540	READOG	3209	REDXI	2472	REDXT	403	RESET	543
ROOMCT	3723	RPTOUT	1721	RSTCTR	2598	SAVCN1	2621	SAVCON	3298	SAVEWM	3822	SENSW	1103
SEQCT	3737	SEQERR	3083	SETADD	1245	SETAOP	830	SETCOM	2172	SETDA	1693	SETERH	945
SETFRE	1301	SETLIT	1156	SETLOC	1418	SETOUT	2349	SETPNH	2609	SETUP	595	SFX	2343
SFXCTR	3718	SSAVE	3368	SSAVE1	2691	SSOP	1900	SSXT	1153	STLABL	2	STMBAD	1528
STSTMT	5	SUBCTI	2585	SUBCTR	516	SUFFIX	280	SUPADD	66	SUPLST	1209	SYMUND	2309
SYSTAP	%U1	TAPOP	3369	TAPOP1	2692	TPERR	334	TPERRI	2403	TPHALI	2510	TPHALT	441
TPINSI	2459	TPINST	390	TSTCON	2891	TSTCOR	900	TSTCTL	970	TSTDC	2617	TSTEND	1020
TSTFR	1466	TSTLBL	1474	TSTOP	2134	TSTPCH	2821	TSTROM	2405	TSTSIZ	407	TSTSSC	1133
TSTSSD	1143	TSTSSE	1148	TSTSSG	1138	TSTSTM	1482	TYPE	75	TYPEA	3459	TYPERR	1278
TYPESW	3458	UNDXT	2324	UNSIGN	1172	WMADDR	3578	WMLOC	3375	WMSTR	3411	WMSW	3456
WORD1	1249	WORD2	1288	WORD3	1299	WORD4	1320	WORD5	1331	WORKTP	%U5	WORKXT	3205
WRTCTI	2785	WRTCTR	542	WRTRDI	2548	WRTRED	479	WT2XT	3079	WTAP2	3043	WTAPE	2124
WTHEAD	2052	WTXT	2153	XR1	89	XR2	94	XR3	99	XTRA	924	XTRATP	%U6
XXXX	0	ZONE	189										