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

                          1401 FORTRAN - RELOCATABLE CONDENSER - PHASE 96           50963              PAGE    1

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

 101  1 01   001    JOB   1401 FORTRAN - RELOCATABLE CONDENSER - PHASE 96
 102  1 02          CTL   645 11
 103  1 03   *
 104  1 04   * EQUATES 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   FIXFRM EQU   0                                                            0000
 111  1 11   STSTMT EQU   FIXFRM&5                                                     0005
 112  1 12   COUNT  EQU   FIXFRM&7                                                     0007
 113  1 13   LABADD EQU   FIXFRM&61                                                    0061
 114  1 14   SUPADD EQU   FIXFRM&66                                                    0066
 115  1 15   OP     EQU   FIXFRM&67                                                    0067
 116  1 16   AOP    EQU   FIXFRM&70                                                    0070
 117  1 17   BOP    EQU   FIXFRM&73                                                    0073
 118  1 18   DMOD   EQU   FIXFRM&74                                                    0074
 119  1 19   TYPE   EQU   FIXFRM&75                                                    0075
 120  1 20   ALTER  EQU   FIXFRM&80                                                    0080
 121  1 21   XXXX   EQU   0                                                            0000
 122  1 22   PRINT  EQU   200                                                          0200
 123  1 23   LAB    EQU   PRINT&19                                                     0219
 124  1 24   OPCODE EQU   PRINT&25                                                     0225
 125  1 25   OPRAND EQU   PRINT&78                                                     0278
 126  1 26   CT     EQU   PRINT&84                                                     0284
 127  1 27   LOCN   EQU   PRINT&90                                                     0290
 128  1 28   INOP   EQU   PRINT&93                                                     0293
 129  1 29   INAOP  EQU   PRINT&97                                                     0297
 130  1 30   INBOP  EQU   PRINT&101                                                    0301
 131  1 31   INDMOD EQU   PRINT&103                                                    0303
 132  1 32   CARDNO EQU   PRINT&114                                                    0314
 133  1 33   PUNCH  EQU   100                                                          0100
 134  1 34   ZONE   EQU   189                                                          0189
 135  1 35          XINIT XR1,XR2,XR3                                                                MACRO
 136         XR1    EQU   089                                                          0089          GEN
 137         089    DCW   000                                                      3   0089          GEN      4
 138         091    DC    00                                                       2   0091          GEN      4
 139         XR2    EQU   094                                                          0094          GEN
 140         094    DCW   000                                                      3   0094          GEN      4
 141         096    DC    00                                                       2   0096          GEN      4
 142         XR3    EQU   099                                                          0099          GEN
 143         099    DCW   000                                                      3   0099          GEN      4
 144         100    DC    0                                                        1   0100          GEN      4
 145  1 36   189    DCW   @2SKB@                                                   4   0189                   5
 146  1 37   *
 147  1 38   * INITIALIZATION ROUTINE
```

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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
148  1 39   *
149  1 40          ORG   333                                                  0333
150  1 41   SSOP   CS    332                                        4  0333  / 332               6
151  1 42          CS                                               1  0337  /                   6
152  1 43          CS    180                                        4  0338  / 180               6
153  1 44          RWD   ORIGTP                                     5  0342  U %U4 R             6
154  1 45          RWD   WORKTP                                     5  0347  U %U5 R             6
155  1 46          SW    PUNCH&72,PUNCH&76                          7  0352  , 172 176           6
156  1 47          A     &4,PUNCH&75                                7  0359  A A16 175           6
157  1 48          B     READOG                                     4  0366  B R80               7
158  1 49   *
159  1 50   * CHECK FOR JOB CARD
160  1 51   *
161  1 52          C     MNEMON-2,@JOB@                             7  0370  C H48 A19           7
162  1 53          BU    CKCTL                                      5  0377  B 408 /             7
163  1 54          LCA   @}@,181                                    7  0382  L A20 181           7
164  1 55          RT    WORKTP,180                                 8  0389  M %U5 180 R         7
165  1 56          MCW   IMAGE&80,PUNCH&80                          7  0397  M I10 180           7
166  1 57          B     READOG                                     4  0404  B R80               8
167  1 58   *
168  1 59   * CHECK FOR CONTROL CARD
169  1 60   *
170  1 61   CKCTL  C     MNEMON-2,@CTL@                             7  0408  C H48 A23           8
171  1 62          MCW   IMAGE&30,CTLSAV#10                         7  0415  M H60 A33           8
172  1 63          BE    TSTSIZ                                     5  0422  B 438 S             8
173  1 64          MCW   @3@,PROSIZ                                 7  0427  M A34 A24           8
174  1 65          B     TSTSIZ&4                                   4  0434  B 442               8
175  1 66   *
176  1 67   * TEST PROCESSOR MACHINE SIZE
177  1 68   *
178  1 69   TSTSIZ B     READOG                                     4  0438  B R80               8
179  1 70          C     PROSIZ,@4@                                 7  0442  C A24 A35           9
180  1 71          BH    GETMAN                                     5  0449  B 488 U             9
181  1 72          C     PROSIZ,@6@                                 7  0454  C A24 A36           9
182  1 73          BL    GETMAN                                     5  0461  B 488 T             9
183  1 74          MCW   @400@,KBLKNG                               7  0466  M A39 ?79           9
184  1 75          BCE   GETMAN,PROSIZ,4                           8  0473  B 488 A24 4         9
185  1 76          A     @400@,KBLKNG                               7  0481  A A39 ?79          10
186  1 77   *
187  1 78   * SETUP & GET MAIN PROGRAM
188  1 79   *
189  1 80   GETMAN BSP   ORIGTP                                     5  0488  U %U4 B            10
190  1 81          SW    FIXFRM&1,FIXFRM&6                          7  0493  , 001 006          10
191  1 82          SW    FIXFRM&8,FIXFRM&14                         7  0500  , 008 014          10
192  1 83          SW    FIXFRM&23,FIXFRM&57                        7  0507  , 023 057          10
193  1 84          SW    FIXFRM&62,FIXFRM&67                        7  0514  , 062 067          11
194  1 85          SW    FIXFRM&68,FIXFRM&71                        7  0521  , 068 071          11
195  1 86          SW    FIXFRM&74                                  4  0528  , 074              11
196  1 87          MCW   KBLKNG,HOLDA-1                            7  0532  M ?79 ?71          11
197  1 88          LCA   @L0     ,      ,      ,      1   @,PUNCH&71  7  0539  L A71 171          11
```

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SEQ PG LIN  LABEL   OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
198  1 89           CW    WMSW#1                                    4  0546  ) A72               11
199  1 90           B     GET                                       4  0550  B Q95               12
200  1 91           B     SETUP                                     4  0554  B 767               12
201  1 92    *
202  1 93    * TAPE REDUNDANCY ROUTINE
203  1 94    *
204  1 95    TPERR  SBR   XR2                                       4  0558  H 094               12
205  1 96           SBR   REDXT&3                                   4  0562  H 630               12
206  1 97           MZ    PLUS9,XR2                                 7  0566  Y 762 094           12
207  1 98           MCW   4000-10&X2,TPINST&7                       7  0573  M IR0 621           12
208  1 99           MN    TPINST&7,BSP1&3                           7  0580  D 621 597           12
209  2 00           MCW   TPINST&7,INST2&7                         7  0587  M 621 730           13
210  2 01    BSP1   BSP   INITAP                                   5  0594  U %U0 B             13
211  2 02           BCE   WRTRED,TPINST&7,W                        8  0599  B 703 621 W         13
212  2 03           MCW   PLUS9,READCT                              7  0607  M 762 764           13
213  2 04    TPINST RT    INITAP,XXXX                               8  0614  M %U0 000 R         13
214  2 05           BER   RDRERR                                   5  0622  B 631 L             14
215  2 06    REDXT  B     XXXX                                      4  0627  B 000               14
216  2 07    RDRERR MN    TPINST&3,BSP2&3                           7  0631  D 617 641           14
217  2 08    BSP2   BSP   INITAP                                   5  0638  U %U0 B             14
218  2 09           S     PLUS1,READCT                              7  0643  S 763 764           14
219  2 10           BWZ   TPINST,READCT,B                         8  0650  V 614 764 B         14
220  2 11           MN    TPINST&3,TPHALT&6                         7  0658  D 617 671           15
221  2 12    TPHALT H     XXXX,790                                  7  0665  . 000 790           15
222  2 13           MCW   TPINST&7,*&8                            7  0672  M 621 686           15
223  2 14           RT    INITAP,XXXX                               8  0679  M %U0 000 R         15
224  2 15           BSS   BSP1,E                                    5  0687  B 594 E             15
225  2 16           H     XXXX,712                                  7  0692  . 000 712           16
226  2 17           B     REDXT                                     4  0699  B 627               16
227  2 18    WRTRED SKP   SYSTAP                                   5  0703  U %U1 E             16
228  2 19           BCE   SUBCTR,WRTCTR-1,5                         8  0708  B 740 765 5         16
229  2 20           A     PLUS1,WRTCTR                              7  0716  A 763 766           16
230  2 21    INST2  WT    INITAP,XXXX                               8  0723  M %U0 000 W         16
231  2 22           BER   BSP1                                      5  0731  B 594 L             17
232  2 23           B     REDXT                                     4  0736  B 627               17
233  2 24    SUBCTR S     WRTCTR                                    4  0740  S 766               17
234  2 25           MN    TPINST&3,*&7                              7  0744  D 617 757           17
235  2 26           H     XXXX,760                                  7  0751  . 000 760           17
236  2 27           B     INST2                                     4  0758  B 723               17
237  2 28    PLUS9  DCW   &9                                        1  0762                      17
238  2 29    PLUS1  DCW   &1                                        1  0763                      18
239  2 30    READCT DCW   #1                                        1  0764                      18
240  2 31    WRTCTR DCW   #2                                        2  0766                      18
241  2 32    *
242  2 33    * BEGIN MAIN LINE PROGRAM
243  2 34    *
244  2 35    SETUP  CS    PRINT&132                                 4  0767  / 332               18
245  2 36           CS                                            1  0771  /                   18
246  2 37    GETORG B     READOG                                    4  0772  B R80               18
247  2 38    *
```

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SEQ PG LIN  LABEL  OP    OPERANDS                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
248  2 39   * DETERMINE TYPE
249  2 40   *
250  2 41   ANALWK SW    TYPESW#1                           4  0776  , A73               18
251  2 42          SW    RELSW                              4  0780  , B31               19
252  2 43          MN    TYPE,TYPEA#1                       7  0784  D 075 A74           19
253  2 44          BCE   BYPASS,TYPE,%                     8  0791  B T15 075 %         19
254  2 45          BCE   BYPASS,TYPE,8                     8  0799  B T15 075 8         19
255  2 46          BCE   BYPASS,TYPE,I                     8  0807  B T15 075 I         19
256  2 47          BCE   PROWRK,ALTER,                     8  0815  B 977 080           20
257  2 48   ANALOG BCE   COMXT,LABEL-5,*                   8  0823  B 942 H36 *         20
258  2 49          BCE   COMXT,IMAGE&75,R                 8  0831  B 942 I05 R         20
259  2 50          BCE   COMXT&4,IMAGE&75,S               8  0839  B 946 I05 S         20
260  2 51          BCE   DOJOB,MNEMON-4,J                 8  0847  B 954 H46 J         21
261  2 52          C     ALTER,ALTNO                      7  0855  C 080 I14           21
262  2 53          BU    SEQERR                           5  0862  B Q84 /             21
263  2 54          B     SETFRE                           4  0867  B T31               21
264  2 55          CW    TYPESW                           4  0871  ) A73               21
265  2 56          BCE   INSTR,TYPE,                      8  0875  B T83 075           21
266  2 57          MN    TYPE,XR2                         7  0883  D 075 094           22
267  2 58          A     XR2                              4  0890  A 094               22
268  2 59          A     XR2                              4  0894  A 094               22
269  2 60          B     *&1&X2                           4  0898  B 9!2               22
270  2 61          B     DA                               4  0902  B W14               22
271  2 62          B     CONST                            4  0906  B |99               22
272  2 63          B     DSA                              4  0910  B |43               22
273  2 64          B     EXEND                            4  0914  B X48               23
274  2 65          B     LITOUT                           4  0918  B S01               23
275  2 66          B     TYPERR                           4  0922  B T08               23
276  2 67          B     BYPASS                           4  0926  B T15               23
277  2 68          B     BYPASS                           4  0930  B T15               23
278  2 69          B     TYPERR                           4  0934  B T08               23
279  2 70          B     TYPERR                           4  0938  B T08               23
280  2 71   *
281  2 72   * COMMENTS CARD
282  2 73   *
283  2 74   COMXT  B     PRNTLN                           4  0942  B J10               24
284  2 75          B     READOG                           4  0946  B R80               24
285  2 76          B     ANALOG                           4  0950  B 823               24
286  2 77   *
287  2 78   * NEW JOB CARD
288  2 79   *
289  2 80   DOJOB  BW    DOIDT,NEWSW                      8  0954  V 966 B98 1         24
290  2 81          B     PNCHCD                           4  0962  B N75               24
291  2 82   DOIDT  MCW   IMAGE&80,PUNCH&80                7  0966  M I10 180           24
292  2 83          B     COMXT                            4  0973  B 942               24
293  2 84   *
294  2 85   * PROGRAM GENERATED RECORD
295  2 86   *
296  2 87   PROWRK BCE   XTRA,TYPE,Y                      8  0977  B |05 075 Y         25
297  2 88          BCE   ADCON,TYPE,S                     8  0985  B |25 075 S         25
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SEQ PG LIN  LABEL  OP    OPERANDS                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
298  2 89          BCE   LITRAL,TYPEA,1                      8  0993  B |65 A74 1         25
299  2 90          B     TYPERR                              4  1001  B T08               25
300  2 91   *
301  2 92   * LITERAL GREATER THAN 30 CHARACTERS
302  2 93   *
303  2 94   XTRA   SW    PRINT&27                            4  1005  , 227              25
304  2 95          MCW   FIXFRM&72,OPRAND                    7  1009  M 072 278          25
305  2 96          CHAIN 5                                                 MACRO
306                MCW                                       1  1016  M          GEN     26
307                MCW                                       1  1017  M          GEN     26
308                MCW                                       1  1018  M          GEN     26
309                MCW                                       1  1019  M          GEN     26
310                MCW                                       1  1020  M          GEN     26
311  2 97          B     BYPASS                              4  1021  B T15              26
312  2 98   *
313  2 99   * ADCON CARD
314  3 00   *
315  3 01   ADCON  SW    PRINT&27                            4  1025  , 227              26
316  3 02          MCW   FIXFRM&53,PRINT&40                  7  1029  M 053 240          27
317  3 03          MCW   FIXFRM&16,OPCODE-2                 7  1036  M 016 223          27
318  3 04   DSA    MCW   BOP,PRINT&95                       7  1043  M 073 295          27
319  3 05          MCW   BOP,HOLDH&3                       7  1050  M 073 A79          27
320  3 06          B     SETADD                              4  1057  B S75              27
321  3 07          B     SETLIT                              4  1061  B /93              27
322  3 08   *
323  3 09   * LITERAL & AREA DEFINITION CARDS
324  3 10   *
325  3 11   LITRAL BWZ   PROLIT,TYPE,S                       8  1065  V |85 075 S        28
326  3 12          BWZ   DADC,FIXFRM&1,B                     8  1073  V S58 001 B        28
327  3 13          B     PROLIT                              4  1081  B |85              28
328  3 14   PROLIT MCW   FIXFRM&53,PRINT&57                  7  1085  M 053 257          28
329  3 15          MCW   FIXFRM&16,OPCODE-2                 7  1092  M 016 223          28
330  3 16   CONST  B     SETADD                              4  1099  B S75              28
331  3 17          A     @00@,COUNT                          7  1103  A A76 007          29
332  3 18          C     COUNT,@00@                          7  1110  C 007 A76          29
333  3 19          BL    GOOD                                5  1117  B /33 T            29
334  3 20          MZ    ZONE-1,STSTMT                       7  1122  Y 188 005          29
335  3 21          B     SETLIT                              4  1129  B /93              29
336  3 22   GOOD   BCE   AREADF,PRINT&27,#                   8  1133  B S20 227 #        29
337  3 23          BWZ   AREADF,FIXFRM&4,B                  8  1141  V S20 004 B        30
338  3 24          MCW   OPRAND,HOLDDT-1                     7  1149  M 278 B27          30
339  3 25          BCE   SETLIT,PRINT&27,@                   8  1156  B /93 227 @        30
340  3 26          BWZ   UNSIGN,PRINT&27,2                   8  1164  V S09 227 2        30
341  3 27          MCW   COUNT,XR1                           7  1172  M 007 089          30
342  3 28          MZ    BLANK4,PRINT&27&X1                  7  1179  Y ?76 2S7          31
343  3 29          MZ    PRINT&27,HOLDH&X1                   7  1186  Y 227 AX6          31
344  3 30   SETLIT B     SETLOC                              4  1193  B T60              31
345  3 31          B     CONDNS                              4  1197  B J23              31
346  3 32   LITOUT B     PRNTLN                              4  1201  B J10              31
347  3 33          B     BYPASS                              4  1205  B T15              31
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SEQ PG LIN  LABEL  OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
348  3 34   UNSIGN MCW   OPRAND,HOLDDT#52                          7  1209  M 278 B28           31
349  3 35          B     SETLIT                                    4  1216  B /93               32
350  3 36   AREADF BW    *&5,TYPESW                                8  1220  V S32 A73 1         32
351  3 37          B     SETLIT                                    4  1228  B /93               32
352  3 38          MCW   FIXFRM&13,LAB                            7  1232  M 013 219           32
353  3 39          MCW   BLANK4-2,PRINT&31                       7  1239  M ?74 231           32
354  3 40          MCW   COUNT                                    4  1246  M 007               32
355  3 41          MCW   @#@                                      4  1250  M B29               32
356  3 42          B     SETLIT                                    4  1254  B /93               33
357  3 43   DADC   B     SETADD                                    4  1258  B S75               33
358  3 44          B     CONDNS                                    4  1262  B J23               33
359  3 45          CS    PRINT&132                                 4  1266  / 332               33
360  3 46          CS                                              1  1270  /                   33
361  3 47          B     BYPASS                                    4  1271  B T15               33
362  3 48   *
363  3 49   * SET CONDENSE ADDRESSES FOR CONSTANTS
364  3 50   *
365  3 51   SETADD SBR   ADDXT&3                                   4  1275  H T07               33
366  3 52          ZA    LABADD,LOADAD                             7  1279  ? 061 B53           34
367  3 53          MCW   LOADAD                                    4  1286  M B53               34
368  3 54          S     COUNT,WMADDR                              7  1290  S 007 B48           34
369  3 55          A     &1,WMADDR                                 7  1297  A B30 B48           34
370  3 56   ADDXT  B     XXXX                                      4  1304  B 000               34
371  3 57   *
372  3 58   * GET NEXT RECORDS
373  3 59   *
374  3 60   TYPERR H     XXXX,770                                  7  1308  . 000 770           34
375  3 61   BYPASS B     GET                                       4  1315  B Q95               35
376  3 62          BW    ANALWK,TYPESW                             8  1319  V 776 A73 1         35
377  3 63          B     GETORG                                    4  1327  B 772               35
378  3 64   *
379  3 65   * FREE FORM RECORD TO PRINT AREA
380  3 66   *
381  3 67   SETFRE SBR   FREEXT&3                                  4  1331  H T59               35
382  3 68          MCW   LABEL,LAB                                 7  1335  M H41 219           35
383  3 69          MCW   MNEMON,OPCODE                             7  1342  M H50 225           35
384  3 70          MCW   OPERND,OPRAND                            7  1349  M I02 278           36
385  3 71   FREEXT B     XXXX                                      4  1356  B 000               36
386  3 72   *
387  3 73   * ASSEMBLED INFORMATION TO PRINT AREA
388  3 74   *
389  3 75   SETLOC SBR   LOCXT&3                                   4  1360  H T82               36
390  3 76          MCS   COUNT,CT                                  7  1364  Z 007 284           36
391  3 77          MN    LABADD,LOCN                               7  1371  D 061 290           36
392  3 78          MCW                                             1  1378  M                   36
393  3 79   LOCXT  B     XXXX                                      4  1379  B 000               36
394  3 80   *
395  3 81   * INSTRUCTION CARD
396  3 82   *
397  3 83   INSTR  MCW   DMOD,INDMOD                               7  1383  M 074 303           37
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SEQ PG LIN  LABEL   OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
398  3 84           MCW   BOP,INBOP                                7  1390  M 073 301           37
399  3 85           MCW   AOP,INAOP                                7  1397  M 070 297           37
400  3 86           MCW   OP,INOP                                  7  1404  M 067 293           37
401  3 87           MCW   DMOD,HOLDH&8                            7  1411  M 074 A84           37
402  3 88           MCW                                           1  1418  M                   37
403  3 89           MCW                                           1  1419  M                   37
404  3 90           MCW                                           1  1420  M                   38
405  3 91           CW    RELSW#1                                 4  1421  ) B31               38
406  3 92           MCW   @186@,RELAD#3                          7  1425  M B34 B37           38
407  3 93           S     XR3&1                                   4  1432  S 100               38
408  3 94           S                                             1  1436  S                   38
409  3 95           S                                             1  1437  S                   38
410  3 96   NXTADD  BCE   DOBOP,OPADDR,#                         8  1438  B V36 0P0 #         38
411  3 97           BCE   DOBOP,OPADDR-2,%                       8  1446  B V36 0O8 %         39
412  3 98           BCE   DOBOP,OPADDR,                          8  1454  B V36 0P0           39
413  3 99           BWZ   *&5,OPADDR,2                          8  1462  V U74 0P0 2         39
414  4 00           B     ASKSYM                                  4  1470  B U90               39
415  4 01           BWZ   DOBOP,OPADDR-2,2                      8  1474  V V36 0O8 2         39
416  4 02           BWZ   DOBOP,OPADDR-2,S                      8  1482  V V36 0O8 S         40
417  4 03   ASKSYM  BCE   ISSYM,OPSYM,@                         8  1490  B V14 0/7 @         40
418  4 04           BCE   ISSYM,OPSYM,#                         8  1498  B V14 0/7 #         40
419  4 05           BWZ   QUSYM,OPSYM,2                        8  1506  V V70 0/7 2         40
420  4 06   ISSYM   A     &1,RELAD                                7  1514  A B30 B37           40
421  4 07           BCE   RELFIN,XR2,3                          8  1521  B V82 094 3         41
422  4 08           A     &1,RELAD                                7  1529  A B30 B37           41
423  4 09   DOBOP   A     &3,XR2                                  7  1536  A B38 094           41
424  4 10           A     &11,XR1                                 7  1543  A B40 089           41
425  4 11           S     XR3&1                                   4  1550  S 100               41
426  4 12           C     XR2,@003@                               7  1554  C 094 B43           42
427  4 13           BE    NXTADD                                  5  1561  B U38 S             42
428  4 14           B     RELFIN                                  4  1566  B V82               42
429  4 15   QUSYM   BWZ   DOBOP,OPSYM&1,2                        8  1570  V V36 0/8 2         42
430  4 16           B     ISSYM                                   4  1578  B V14               42
431  4 17   OPADDR  EQU   AOP&X2                                     0070  X
432  4 18   OPSYM   EQU   FIXFRM&17&X1                              0017  X
433  4 19   RELFIN  MCW   LABADD,WMADDR#5                         7  1582  M 061 B48           42
434  4 20           MCW   LABADD,LOADAD#5                         7  1589  M 061 B53           43
435  4 21           A     COUNT,LOADAD                            7  1596  A 007 B53           43
436  4 22           S     &1,LOADAD                               7  1603  S B30 B53           43
437  4 23           B     SETLIT                                  4  1610  B /93               43
438  4 24   *
439  4 25   * DEFINE AREA CARDS
440  4 26   *
441  4 27   DA      BCE   HEADER,TYPE,0                          8  1614  B W93 075 0         43
442  4 28           MCW   SUPADD,WMADDR                         7  1622  M 066 B48           44
443  4 29           BWZ   SETDA,TYPE,B                          8  1629  V W45 075 B         44
444  4 30           B     SETLOC                                  4  1637  B T60               44
445  4 31           B     LITOUT                                  4  1641  B S01               44
446  4 32   SETDA   B     SETLOC                                  4  1645  B T60               44
447  4 33           B     CONDNS                                  4  1649  B J23               44
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SEQ PG LIN  LABEL   OP    OPERANDS                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
448  4 34           B     PRNTLN                             4  1653  B J10               44
449  4 35   BYPDA   B     GET                                4  1657  B Q95               45
450  4 36           BCE   RPTOUT,TYPE,|                      8  1661  B W73 075 |         45
451  4 37           B     GETORG                             4  1669  B 772               45
452  4 38   RPTOUT  MCW   SUPADD,WMADDR                      7  1673  M 066 B48           45
453  4 39           B     CONDNS                             4  1680  B J23               45
454  4 40           CS    PRINT&132                          4  1684  / 332               45
455  4 41           CS                                       1  1688  /                   45
456  4 42           B     BYPDA                              4  1689  B W57               46
457  4 43   HEADER  B     SETLOC                             4  1693  B T60               46
458  4 44   NXTRPT  MN    SUPADD,PRINT&97                    7  1697  D 066 297           46
459  4 45           MCW                                      1  1704  M                   46
460  4 46           MCW   LABADD,WMADDR                      7  1705  M 061 B48           46
461  4 47           B     CONDNS                             4  1712  B J23               46
462  4 48           B     GET                                4  1716  B Q95               46
463  4 49           C     FIXFRM&16,@DA @                    7  1720  C 016 B56           47
464  4 50           BU    PNTDA                              5  1727  B X40 /             47
465  4 51           BCE   NXTRPT,TYPE,|                      8  1732  B W97 075 |         47
466  4 52   PNTDA   B     PRNTLN                             4  1740  B J10               47
467  4 53           B     GETORG                             4  1744  B 772               47
468  4 54   *
469  4 55   * EX, END CARDS
470  4 56   *
471  4 57   EXEND   MCW   @B@,INOP                           7  1748  M B57 293           47
472  4 58           MCW   @B@,HOLDH&1                        7  1755  M B57 A77           48
473  4 59           BCE   SETAOP,TYPE,C                      8  1762  B X84 075 C         48
474  4 60           MCW   @/     080@,INBOP                  7  1770  M B66 301           48
475  4 61           MCW   @/   080@,HOLDH&7                  7  1777  M B73 A83           48
476  4 62   SETAOP  MCW   AOP,INAOP                          7  1784  M 070 297           48
477  4 63           MCW   AOP,HOLDH&4                        7  1791  M 070 A80           49
478  4 64           B     SETLOC                             4  1798  B T60               49
479  4 65           B     CONDNS                             4  1802  B J23               49
480  4 66           B     PRNTLN                             4  1806  B J10               49
481  4 67           BCE   BYPASS,TYPE,C                      8  1810  B T15 075 C         49
482  4 68           H     *-3                                4  1818  . Y18               49
483  4 69   *
484  4 70   * CONDENSE EX, END CARDS
485  4 71   *
486  4 72   NOCARD  C     WMLOC,AWMSTR                       7  1822  C ?82 ?85           49
487  4 73           BE    TSTEND                             5  1829  B Y50 S             50
488  4 74           CW    NEWSW                              4  1834  ) B98               50
489  4 75   ENDRTN  BW    NOCARD,NEWSW                       8  1838  V Y22 B98 1         50
490  4 76           B     PNCHCD                             4  1846  B N75               50
491  4 77   TSTEND  BCE   EXCUTE,TYPE,C                      8  1850  B Y87 075 C         50
492  4 78           CS    PUNCH&71                           4  1858  / 171               50
493  4 79           MCW   HOLDH&7,PUNCH&46                  7  1862  M A83 146           51
494  4 80           MCS   PUNCH&75,CARDNO                    7  1869  Z 175 314           51
495  4 81           MCW   &LSTCD,PNHXT&3                     7  1876  M B76 P31           51
496  4 82           B     TSTPCH                             4  1883  B O67               51
497  4 83   EXCUTE  MCE   WMSTR,PUNCH&71                     7  1887  E A15 171           51
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SEQ PG LIN  LABEL  OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
498  4 84           MCW   @N0000000@,PUNCH&46                                7  1894  M B83 146           51
499  4 85           MCW   HOLDH&4,PUNCH&71                                  7  1901  M A80 171           52
500  4 86           MCS   PUNCH&75,CARDNO                                   7  1908  Z 175 314           52
501  4 87           MCW   &EXOUT,PNHXT&3                                    7  1915  M B86 P31           52
502  4 88           B     TSTPCH                                            4  1922  B O67               52
503  4 89    *
504  4 90    * PUNCH COMPATIBILITY CARDS
505  4 91    *
506  4 92    EXOUT  CS    PUNCH&71                                          4  1926  / 171               52
507  4 93           B     READOG                                            4  1930  B R80               52
508  4 94           BSP   ORIGTP                                            5  1934  U %U4 B             52
509  4 95           BCE   *&5,MNEMON-4,J                                    8  1939  B Z51 H46 J         53
510  4 96           B     *&8                                               4  1947  B Z58               53
511  4 97           MCW   IMAGE&80,PUNCH&80                                 7  1951  M I10 180           53
512  4 98           MCW   WORD2,PUNCH&39                                    7  1958  M !66 139           53
513  4 99           LCA   WORD3,PUNCH&66                                    7  1965  L !77 166           53
514  5 00           MCW   PUNCH&66,PUNCH&50                                 7  1972  M 166 150           54
515  5 01           P                                                       1  1979  4                   54
516  5 02           CS    PUNCH&66                                          4  1980  / 166               54
517  5 03           A     &1,PUNCH&75                                       7  1984  A B30 175           54
518  5 04           MCW   WORD4,PUNCH&21                                    7  1991  M !98 121           54
519  5 05           MCW   WORD5,PUNCH&71                                    7  1998  M J09 171           54
520  5 06           MCW   &OUTEX,PNHXT&3                                    7  2005  M B89 P31           55
521  5 07           P                                                       1  2012  4                   55
522  5 08           B     NEWCRD                                            4  2013  B O68               55
523  5 09    LSTCD  CS    PUNCH&80                                          4  2017  / 180               55
524  5 10           P                                                       1  2021  4                   55
525  5 11           SS    8                                                 2  2022  K 8                 55
526  5 12    OUTEX  B     CNDOUT&7                                          4  2024  B Q55               55
527  5 13    WORD2  DCW   @,015022)024056,029036,040047,0540611001@        39  2066                      56
528  5 14    WORD3  DCW   @,001008B001@                                    11  2077                      57
529  5 15    WORD4  DCW   @,068072)063067/061039@                          21  2098                      57
530  5 16    WORD5  DCW   @,0010011040@                                    11  2109                      58
531  5 17    *
532  5 18    * PRINT STATEMENTS
533  5 19    *
534  5 20    PRNTLN SBR   PRNTXT&3                                          4  2110  H J22               58
535  5 21           CS    PRINT&132                                         4  2114  / 332               58
536  5 22           CS                                                      1  2118  /                   58
537  5 23    PRNTXT B     XXXX                                              4  2119  B 000               58
538  5 24    *
539  5 25    * CONDENSE ROUTINE
540  5 26    *
541  5 27    CONDNS SBR   CONDXT&3                                          4  2123  H Q83               58
542  5 28           CW    BIGSW,DCSW                                        7  2127  ) C98 C21           58
543  5 29           BM    CONDXT,STSTMT                                     8  2134  V Q80 005 K         59
544  5 30           BW    PNCHCD,WMSW                                       8  2142  V N75 A72 1         59
545  5 31    *
546  5 32    * PROCESS RECORD
547  5 33    *
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SEQ PG LIN  LABEL  OP    OPERANDS                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
548  5 34   NXTRCD BCE   DOWM,TYPEA,0                        8  2150  B L08 A74 0         59
549  5 35          BCE   ENDRTN,TYPEA,3                     8  2158  B Y38 A74 3         59
550  5 36          BWZ   TSTDC,TYPE,B                       8  2166  V M08 075 B         60
551  5 37   *
552  5 38   * TEST ROOM ON CARD
553  5 39   *
554  5 40   TSTROM C     COUNT,@39@                         7  2174  C 007 B91           60
555  5 41          BL    TSTCON                             5  2181  B P32 T             60
556  5 42          MCW   PNHLOC,ROOMCT#3                    7  2186  M ?88 B94           60
557  5 43          A     COUNT,ROOMCT                       7  2193  A 007 B94           60
558  5 44          C     ROOMCT,@039@                       7  2200  C B94 B97           61
559  5 45          BL    SETPNH                             5  2207  B M00 T             61
560  5 46          BW    RSTCTR,NEWSW#1                     8  2212  V L89 B98 1         61
561  5 47   *
562  5 48   * TEST SEQUENCE
563  5 49   *
564  5 50          MCW   COUNTR#5,SEQCT#5                   7  2220  M C03 C08           61
565  5 51          A     COUNT,SEQCT                        7  2227  A 007 C08           61
566  5 52          C     LOADAD,SEQCT                       7  2234  C B53 C08           62
567  5 53          BU    SETPNH                             5  2241  B M00 /             62
568  5 54          A     COUNT,COUNTR                       7  2246  A 007 C03           62
569  5 55   *
570  5 56   * MOVE DATA TO PUNCH AREA
571  5 57   *
572  5 58   MVDATA MCW   &HOLDH,XR3                         7  2253  M C11 099           62
573  5 59          A     COUNT,XR3                          7  2260  A 007 099           62
574  5 60          A     COUNT,PNHLOC                       7  2267  A 007 ?88           63
575  5 61          MCW   PNHLOC,XR2                         7  2274  M ?88 094           63
576  5 62          MCW   XXXX&X3,PUNCH&X2                   7  2281  M 0?0 1!0           63
577  5 63          CW    DATASW#1                           4  2288  ) C12               63
578  5 64          BW    FIRST,NEWSW                        8  2292  V M44 B98 1         63
579  5 65          BWZ   CNDOUT,TYPE,B                     8  2300  V Q48 075 B         64
580  5 66   *
581  5 67   * SET WORD MARK ADDRESS
582  5 68   *
583  5 69   DOWM   MCW   WMADDR,CNVADD#5                    7  2308  M B48 C17           64
584  5 70          B     CNVRT                              4  2315  B N29               64
585  5 71          A     &3,WMLOC                           7  2319  A B38 ?82           64
586  5 72          MCW   WMLOC,XR1                          7  2326  M ?82 089           64
587  5 73          MCW   CNVADD,WMADDR-2                    7  2333  M C17 B46           65
588  5 74          BW    MVWMAD,RELSW                       8  2340  V L62 B31 1         65
589  5 75          MCW   RELAD,*&4                          7  2348  M B37 L58           65
590  5 76          MZ    ZONE,WMADDR-3                      7  2355  Y 189 B45           65
591  5 77   MVWMAD MCW   WMADDR-2,XXXX&X1                  7  2362  M B46 0|0           65
592  5 78          C     XR1,&WMSTR-3                       7  2369  C 089 C20           66
593  5 79          BU    CNDOUT                             5  2376  B Q48 /             66
594  5 80          SW    WMSW                               4  2381  , A72               66
595  5 81          B     CNDOUT                             4  2385  B Q48               66
596  5 82   RSTCTR MCW   LOADAD,COUNTR                      7  2389  M B53 C03           66
597  5 83          B     MVDATA                             4  2396  B K53               66
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SEQ PG LIN  LABEL   OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
598  5 84   SETPNH B     PNCHCD                                    4  2400  B N75               66
599  5 85          B     NXTRCD                                    4  2404  B J50               67
600  5 86   TSTDC  BW    COMPWM,NEWSW                              8  2408  V M20 B98 1         67
601  5 87          B     TSTROM                                    4  2416  B J74               67
602  5 88   COMPWM C     WMLOC,AWMSTR                              7  2420  C ?82 ?85           67
603  5 89          BE    TSTROM                                    5  2427  B J74 S             67
604  5 90          SW    DCSW#1                                    4  2432  , C21               67
605  5 91          B     PNCHCD                                    4  2436  B N75               67
606  5 92          B     TSTROM                                    4  2440  B J74               68
607  5 93   *
608  5 94   * FIRST DATA ON CARD
609  5 95   *
610  5 96   FIRST  CW    NEWSW                                     4  2444  ) B98               68
611  5 97          BWZ   PRODC,TYPE,B                              8  2448  V M82 075 B         68
612  5 98          BW    CNDOUT,RELSW                              8  2456  V Q48 B31 1         68
613  5 99          MCW   RELAD,*&4                                 7  2464  M B37 M74           68
614  6 00          MZ    ZONE,SVZONE#1                             7  2471  Y 189 C22           68
615  6 01          B     CNDOUT                                    4  2478  B Q48               69
616  6 02   *
617  6 03   * CONDENSE DC CARDS
618  6 04   *
619  6 05   PRODC  MCW   @)@,PUNCH&47                             7  2482  M C23 147           69
620  6 06          MCW   WMADDR,CNVADD                             7  2489  M B48 C17           69
621  6 07          B     CNVRT                                     4  2496  B N29               69
622  6 08          MCW   CNVADD,WMADDR-2                          7  2500  M C17 B46           69
623  6 09          MCW   WMADDR-2,WMSTR-15                       7  2507  M B46 A00           69
624  6 10          MCW   WMADDR-2                                 4  2514  M B46               70
625  6 11          A     &6,WMLOC                                  7  2518  A C24 ?82           70
626  6 12          B     CNDOUT                                    4  2525  B Q48               70
627  6 13   *
628  6 14   * CONVERT 5 DIGIT TO 3 DIGIT ADDRESS
629  6 15   *
630  6 16   CNVRT  SBR   CNVXT&3                                  4  2529  H N74               70
631  6 17          BAV   *&1                                       5  2533  B N38 Z             70
632  6 18   ADDAGN A     &96,CNVADD-3                              7  2538  A C26 C14           70
633  6 19          BAV   ADDAGN                                    5  2545  B N38 Z             70
634  6 20          MZ    CNVADD-4,CNVADD                           7  2550  Y C13 C17           71
635  6 21          MN    CNVADD-3,*&4                              7  2557  D C14 N67           71
636  6 22          MZ    ZONE,CNVADD-2                             7  2564  Y 189 C15           71
637  6 23   CNVXT  B     XXXX                                      4  2571  B 000               71
638  6 24   *
639  6 25   * PUNCH A CARD
640  6 26   *
641  6 27   PNCHCD SBR   PNHXT&3                                  4  2575  H P31               71
642  6 28          BW    EDIT,DCSW                                 8  2579  V O27 C21 1         71
643  6 29          BW    EDIT,DATASW                               8  2587  V O27 C12 1         72
644  6 30          MCW   COUNTR,CNVADD                            7  2595  M C03 C17           72
645  6 31          B     CNVRT                                     4  2602  B N29               72
646  6 32          MCW   CNVADD,WMSTR-21                         7  2606  M C17 ?94           72
647  6 33          MCW   PNHLOC,WMSTR-24                         7  2613  M ?88 ?91           72
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SEQ PG LIN  LABEL   OP    OPERANDS                                          SFX CT  LOCN  INSTRUCTION TYPE  CARD
648  6 34           MZ    SVZONE,WMSTR-22                                     7  2620  Y C22 ?93           73
649  6 35   EDIT    MCE   WMSTR,PUNCH&71                                     7  2627  E A15 171           73
650  6 36           MN    @0@,PUNCH&41                                        7  2634  D C27 141           73
651  6 37           MZ    @ @,COUNTR                                          7  2641  Y C28 C03           73
652  6 38           C     COUNTR,@020000@                                     7  2648  C C03 C33           73
653  6 39           BH    TSTPCH                                              5  2655  B O67 U             74
654  6 40           MZ    ZONE,PUNCH&42                                       7  2660  Y 189 142           74
655  6 41   TSTPCH  P                                                         1  2667  4                   74
656  6 42   *
657  6 43   * RESET COUNTERS AND SWITCHES
658  6 44   *
659  6 45   NEWCRD  A     &1,PUNCH&75                                         7  2668  A B30 175           74
660  6 46           CS    PUNCH&71                                            4  2675  / 171               74
661  6 47           LCA   @L0     ,      ,      ,      1   @,PUNCH&71        7  2679  L C65 171           74
662  6 48           SW    NEWSW,DATASW                                        7  2686  , B98 C12           74
663  6 49           CW    WMSW,DCSW                                           7  2693  ) A72 C21           75
664  6 50           MZ    @ @,SVZONE                                          7  2700  Y C28 C22           75
665  6 51           MCW   @000@,PNHLOC                                        7  2707  M C68 ?88           75
666  6 52           MCW   AWMSTR,WMLOC                                        7  2714  M ?85 ?82           75
667  6 53           MCW   @00100104000400400400400400400@,WMSTR             7  2721  M C95 A15           75
668  6 54   PNHXT   B     XXXX                                                4  2728  B 000               75
669  6 55   *
670  6 56   * CONSTANT GREATER THAN 39 CHARACTERS
671  6 57   *
672  6 58   TSTCON  BW    *&5,NEWSW                                           8  2732  V P44 B98 1         76
673  6 59           B     PNCHCD                                              4  2740  B N75               76
674  6 60           MCW   COUNT,HOLDCT#2                                      7  2744  M 007 C97           76
675  6 61           MCW   LOADAD,COUNTR                                       7  2751  M B53 C03           76
676  6 62           MCW   @39@,COUNT                                          7  2758  M B91 007           76
677  6 63           S     @39@,HOLDCT                                         7  2765  S B91 C97           77
678  6 64           S     HOLDCT,COUNTR                                       7  2772  S C97 C03           77
679  6 65           MZ    ZONE-3,HOLDCT                                       7  2779  Y 186 C97           77
680  6 66           SW    BIGSW#1                                             4  2786  , C98               77
681  6 67           MCW   WMADDR,SAVEWM#5                                    7  2790  M B48 D03           77
682  6 68           B     MVDATA                                              4  2797  B K53               77
683  6 69   BIGRN   B     PNCHCD                                              4  2801  B N75               78
684  6 70           CW    BIGSW                                               4  2805  ) C98               78
685  6 71           MCW   HOLDCT,COUNT                                       7  2809  M C97 007           78
686  6 72           MCW   @A@,TYPE                                            7  2816  M D04 075           78
687  6 73           MCW   HOLDDT,HOLDDT-39                                    7  2823  M B28 A89           78
688  6 74           MCW   SAVEWM,WMADDR                                       7  2830  M D03 B48           78
689  6 75           A     @39@,WMADDR                                         7  2837  A B91 B48           79
690  6 76           B     RSTCTR                                              4  2844  B L89               79
691  6 77   *
692  6 78   * EXIT FROM CONDENSE ROUTINE
693  6 79   *
694  6 80   CNDOUT  MCS   PUNCH&75,CARDNO                                     7  2848  Z 175 314           79
695  6 81           S     XR3&1                                               4  2855  S 100               79
696  6 82           S                                                         1  2859  S                   79
697  6 83           S                                                         1  2860  S                   79
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SEQ  PG LIN  LABEL   OP    OPERANDS                                SFX CT  LOCN  INSTRUCTION TYPE  CARD
698   6 84           BW    BIGRN,BIGSW                               8  2861  V Q01 C98 1         79
699   6 85           MCW   BLANK1,HOLDDT                           7  2869  M ?73 B28           80
700   6 86           MCW   HOLDDT                                  4  2876  M B28               80
701   6 87   CONDXT  B     XXXX                                    4  2880  B 000               80
702   6 88   *
703   6 89   * SEQUENCE ERROR ON INPUT RECORDS
704   6 90   *
705   6 91   SEQERR  H     XXXX,777                                7  2884  . 000 777           80
706   6 92           B     SEQERR                                  4  2891  B Q84               80
707   6 93   *
708   6 94   * GET RECORD FROM WORKING TAPE
709   6 95   *
710   6 96   GET     SBR   WORKXT&3                                4  2895  H R79               80
711   6 97           C     BLKCT,KBLKNG                            7  2899  C ?71 ?79           80
712   6 98           BU    NXTREC                                  5  2906  B R39 /             81
713   6 99           S     HOLDA                                   4  2911  S ?72               81
714   7 00           MCW   &INPUT5&13,LGTCK&6                     7  2915  M D07 ?51           81
715   7 01           RT    WORKTP,INPUT5                           8  2922  M %U5 I18 R         81
716   7 02           B     CHKLGT                                  4  2930  B ?30               81
717   7 03           BER   TPERR                                   5  2934  B 558 L             81
718   7 04   NXTREC  A     &80,BLKCT                               7  2939  A D09 ?71           82
719   7 05           MCW   BLKCT,XR3                              7  2946  M ?71 099           82
720   7 06           MCW   FIXINP,FIXFRM&80                        7  2953  M IA7 080           82
721   7 07           CHAIN 10                                                      MACRO
722                  MCW                                           1  2960  M           GEN     82
723                  MCW                                           1  2961  M           GEN     82
724                  MCW                                           1  2962  M           GEN     82
725                  MCW                                           1  2963  M           GEN     82
726                  MCW                                           1  2964  M           GEN     83
727                  MCW                                           1  2965  M           GEN     83
728                  MCW                                           1  2966  M           GEN     83
729                  MCW                                           1  2967  M           GEN     83
730                  MCW                                           1  2968  M           GEN     83
731                  MCW                                           1  2969  M           GEN     83
732   7 08           S     XR3&1                                   4  2970  S 100               83
733   7 09           S                                             1  2974  S                   84
734   7 10           S                                             1  2975  S                   84
735   7 11   WORKXT  B     XXXX                                    4  2976  B 000               84
736   7 12   *
737   7 13   * READ ORIGINAL TAPE
738   7 14   *
739   7 15   READOG  SBR   ORIGXT&3                                4  2980  H ?29               84
740   7 16           MCW   BLANK1,IMAGE&21                         7  2984  M ?73 H51           84
741   7 17           S     IMAGE&20                                4  2991  S H50               84
742   7 18           S                                             1  2995  S                   84
743   7 19           S                                             1  2996  S                   85
744   7 20           S                                             1  2997  S                   85
745   7 21           MCW   &INPUT4&12,LGTCK&6                     7  2998  M D12 ?51           85
746   7 22           RT    ORIGTP,INPUT4                           8  3005  M %U4 H31 R         85
747   7 23           B     CHKLGT                                  4  3013  B ?30               85
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SEQ PG LIN  LABEL  OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
748  7 24          BER   TPERR                                        5  3017  B 558 L           85
749  7 25          S     XR2&1                                       4  3022  S 095             85
750  7 26   ORIGXT B     XXXX                                        4  3026  B 000             86
751  7 27   *
752  7 28   * CHECK FOR SHORT RECORDS
753  7 29   *
754  7 30   CHKLGT SBR   XR2                                         4  3030  H 094             86
755  7 31          SBR   LGTXT&3                                     4  3034  H ?68             86
756  7 32          MZ    @B@,XR2                                     7  3038  Y B57 094         86
757  7 33   LGTCK  BCE   4000-12&X2,XXXX,                            8  3045  B IQ8 000         86
758  7 34          CHAIN 12                                                                MACRO
759                BCE                                             1  3053  B           GEN   86
760                BCE                                             1  3054  B           GEN   86
761                BCE                                             1  3055  B           GEN   87
762                BCE                                             1  3056  B           GEN   87
763                BCE                                             1  3057  B           GEN   87
764                BCE                                             1  3058  B           GEN   87
765                BCE                                             1  3059  B           GEN   87
766                BCE                                             1  3060  B           GEN   87
767                BCE                                             1  3061  B           GEN   87
768                BCE                                             1  3062  B           GEN   88
769                BCE                                             1  3063  B           GEN   88
770                BCE                                             1  3064  B           GEN   88
771  7 35   LGTXT  B     XXXX                                        4  3065  B 000             88
772  7 36   HOLDA  DCW   &0000                                       4  3072                    88
773  7 37   BLANK4 DCW   #4                                          4  3076                    88
774  7 38   BLKCT  EQU   HOLDA-1                                        3071
775  7 39   KBLKNG DCW   @080@                                       3  3079                    88
776  7 40   WMLOC  DSA   WMSTR-21                                    3  3082  ?94               89
777  7 41   AWMSTR DSA   WMSTR-21                                    3  3085  ?94               89
778  7 42   PNHLOC DCW   @000@                                       3  3088                    89
779  7 43   WMSTR  DCW   @001001040040040040040040040@             27  3115                    89
780  7 44          LTORG *                                                  3116
                   DCW   &4                                        1  3116            LIT   89
                   DCW   @JOB@                                     3  3119            LIT   90
                   DCW   @}@                                       1  3120            LIT   90
                   DCW   @CTL@                                     3  3123            LIT   90
              CTLSAV DCW   #10                                    10  3133            AREA  90
                   DCW   @3@                                       1  3134            LIT   90
                   DCW   @4@                                       1  3135            LIT   90
                   DCW   @6@                                       1  3136            LIT   90
                   DCW   @400@                                     3  3139            LIT   91
                   DCW   @L0     ,      ,      ,      1   @       32  3171            LIT   91
              WMSW   DCW   #01                                      1  3172            AREA  91
              TYPESW DCW   #01                                      1  3173            AREA  91
              TYPEA  DCW   #01                                      1  3174            AREA  91
                   DCW   @00@                                      2  3176            LIT   92
              HOLDDT DCW   #52                                     52  3228            AREA  94
                   DCW   @#@                                       1  3229            LIT   94
                   DCW   &1                                        1  3230            LIT   94
```

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

            RELSW   DCW   #01                                        1  3231              AREA    94
                    DCW   @186@                                     3  3234              LIT     94
            RELAD   DCW   #03                                       3  3237              AREA    95
                    DCW   &3                                        1  3238              LIT     95
                    DCW   &11                                       2  3240              LIT     95
                    DCW   @003@                                     3  3243              LIT     95
            WMADDR  DCW   #05                                       5  3248              AREA    95
            LOADAD  DCW   #05                                       5  3253              AREA    95
                    DCW   @DA @                                     3  3256              LIT     95
                    DCW   @B@                                       1  3257              LIT     96
                    DCW   @/     080@                               9  3266              LIT     96
                    DCW   @/   080@                                 7  3273              LIT     96
                    DCW   &LSTCD                                    3  3276  !17         ADCON   96
                    DCW   @N000000@                                 7  3283              LIT     96
                    DCW   &EXOUT                                    3  3286  Z26         ADCON   96
                    DCW   &OUTEX                                    3  3289  !24         ADCON   96
                    DCW   @39@                                      2  3291              LIT     97
            ROOMCT  DCW   #03                                       3  3294              AREA    97
                    DCW   @039@                                     3  3297              LIT     97
            NEWSW   DCW   #01                                       1  3298              AREA    97
            COUNTR  DCW   #05                                       5  3303              AREA    97
            SEQCT   DCW   #05                                       5  3308              AREA    97
                    DCW   &HOLDH                                    3  3311  A76         ADCON   97
            DATASW  DCW   #01                                       1  3312              AREA    98
            CNVADD  DCW   #05                                       5  3317              AREA    98
                    DCW   &WMSTR-3                                  3  3320  A12         ADCON   98
            DCSW    DCW   #01                                       1  3321              AREA    98
            SVZONE  DCW   #01                                       1  3322              AREA    98
                    DCW   @)@                                       1  3323              LIT     98
                    DCW   &6                                        1  3324              LIT     98
                    DCW   &96                                       2  3326              LIT     99
                    DCW   @0@                                       1  3327              LIT     99
                    DCW   @ @                                       1  3328              LIT     99
                    DCW   @02000@                                   5  3333              LIT     99
                    DCW   @L0     ,      ,      ,      1   @       32  3365              LIT    100
                    DCW   @000@                                     3  3368              LIT    100
                    DCW   @0010010400400400400400400400@           27  3395              LIT    101
            HOLDCT  DCW   #02                                       2  3397              AREA   101
            BIGSW   DCW   #01                                       1  3398              AREA   101
            SAVEWM  DCW   #05                                       5  3403              AREA   101
                    DCW   @A@                                       1  3404              LIT    101
                    DCW   &INPUT5&13                                3  3407  I31         ADCON  101
                    DCW   &80                                       2  3409              LIT    102
                    DCW   &INPUT4&12                                3  3412  H43         ADCON  102
781  7 45           ORG   3831                                                 3831
782  7 46   INPUT4  DA    1X86                                          3831   3916              102
783  7 47           3,5                                               3835              FIELD
784  7 48   LABEL   6,11                                              3841              FIELD
785  7 49   MNEMON  16,20                                             3850              FIELD
786  7 50   OPERND  21,72                                             3902              FIELD
```

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SEQ PG LIN  LABEL   OP    OPERANDS                                  SFX CT  LOCN  INSTRUCTION TYPE  CARD
787  7 51   ALTNO         81,84                                           3914              FIELD
788  7 52   IMAGE  EQU    INPUT4-1                                        3830
789  7 53   FIXINP EQU    IMAGE&87&X3                                     3917 X
790  7 54   INPUT5 EQU    FIXINP&1&X0                                     3918
791  7 55   PROSIZ EQU    CTLSAV-9                                        3124
792  7 56   BLANK1 EQU    BLANK4-3                                        3073
793  7 57   HOLDH  EQU    HOLDDT-52                                       3176
794  7 58          END    SSOP                                                  / 333 080
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
ADCON	1025	ADDAGN	2538	ADDXT	1304	ALTER	80	ALTNO	3914	ANALOG	823	ANALWK	776
AOP	70	AREADF	1220	ASKSYM	1490	AWMSTR	3085	BIGRN	2801	BIGSW	3398	BLANK1	3073
BLANK4	3076	BLKCT	3071	BOP	73	BSP1	594	BSP2	638	BYPASS	1315	BYPDA	1657
CARDNO	314	CHKLGT	3030	CKCTL	408	CNDOUT	2848	CNVADD	3317	CNVRT	2529	CNVXT	2571
COMPWM	2420	COMXT	942	CONDNS	2123	CONDXT	2880	CONST	1099	COUNT	7	COUNTR	3303
CT	284	CTLSAV	3133	DA	1614	DADC	1258	DATASW	3312	DCSW	3321	DMOD	74
DOBOP	1536	DOIDT	966	DOJOB	954	DOWM	2308	DSA	1043	EDIT	2627	ENDRTN	1838
EXCUTE	1887	EXEND	1748	EXOUT	1926	FIRST	2444	FIXFRM	0	FIXINP	3917+X3	FREEXT	1356
GET	2895	GETMAN	488	GETORG	772	GOOD	1133	HEADER	1693	HOLDA	3072	HOLDCT	3397
HOLDDT	3228	HOLDH	3176	IMAGE	3830	INAOP	297	INBOP	301	INDMOD	303	INITAP	%U0
INOP	293	INPUT4	3831	INPUT5	3918	INST2	723	INSTR	1383	ISSYM	1514	KBLKNG	3079
LAB	219	LABADD	61	LABEL	3841	LGTCK	3045	LGTXT	3065	LITOUT	1201	LITRAL	1065
LOADAD	3253	LOCN	290	LOCXT	1379	LSTCD	2017	MNEMON	3850	MVDATA	2253	MVWMAD	2362
NEWCRD	2668	NEWSW	3298	NOCARD	1822	NXTADD	1438	NXTRCD	2150	NXTREC	2939	NXTRPT	1697
OP	67	OPADDR	70+X2	OPCODE	225	OPERND	3902	OPRAND	278	OPSYM	17+X1	ORIGTP	%U4
ORIGXT	3026	OUTEX	2024	PLUS1	763	PLUS9	762	PNCHCD	2575	PNHLOC	3088	PNHXT	2728
PNTDA	1740	PRINT	200	PRNTLN	2110	PRNTXT	2119	PRODC	2482	PROLIT	1085	PROSIZ	3124
PROWRK	977	PUNCH	100	QUSYM	1570	RDRERR	631	READCT	764	READOG	2980	REDXT	627
RELAD	3237	RELFIN	1582	RELSW	3231	ROOMCT	3294	RPTOUT	1673	RSTCTR	2389	SAVEWM	3403
SEQCT	3308	SEQERR	2884	SETADD	1275	SETAOP	1784	SETDA	1645	SETFRE	1331	SETLIT	1193
SETLOC	1360	SETPNH	2400	SETUP	767	SSOP	333	STSTMT	5	SUBCTR	740	SUPADD	66
SVZONE	3322	SYSTAP	%U1	TPERR	558	TPHALT	665	TPINST	614	TSTCON	2732	TSTDC	2408
TSTEND	1850	TSTPCH	2667	TSTROM	2174	TSTSIZ	438	TYPE	75	TYPEA	3174	TYPERR	1308
TYPESW	3173	UNSIGN	1209	WMADDR	3248	WMLOC	3082	WMSTR	3115	WMSW	3172	WORD2	2066
WORD3	2077	WORD4	2098	WORD5	2109	WORKTP	%U5	WORKXT	2976	WRTCTR	766	WRTRED	703
XR1	89	XR2	94	XR3	99	XTRA	1005	XXXX	0	ZONE	189		