

| SEQ | PG | LIN | LABEL | OP     | OPERANDS  | SFX | CT | LOCN   | INSTRUCTION | TYPE | CARD | A-ADDR | B-ADDR |
|-----|----|-----|-------|--------|---|-----|----|--------|-------------|------|------|--------|--------|
| 101 |    |     |       | JOB    | FORTRAN COMPILER -- COMPUTED GOTO PHASE -- PHASE 40             |     |    |        |             |      |      |        |        |
| 102 |    |     |       | CTL    | 6611  |     |    |        |             |      |      |        |        |
| 103 |    |     |       | *      |   |     |    |        |             |      |      |        |        |
| 104 |    |     |       | *      | STATEMENTS WITH TWO TO TEN EXITS GENERATE IN-LINE INSTRUCTIONS. |     |    |        |             |      |      |        |        |
| 105 |    |     |       | *      |   |     |    |        |             |      |      |        |        |
| 106 |    |     |       | X1     | EQU 89  |     |    | 0089   |             |      |      |        |        |
| 107 |    |     |       | X2     | EQU 94  |     |    | 0094   |             |      |      |        |        |
| 108 |    |     |       | X3     | EQU 99  |     |    | 0099   |             |      |      |        |        |
| 109 |    |     |       | *      |   |     |    |        |             |      |      |        |        |
| 110 |    |     |       | *      | STUFF IN THE RESIDENT AREA                                      |     |    |        |             |      |      |        |        |
| 111 |    |     |       | *      |   |     |    |        |             |      |      |        |        |
| 112 |    |     |       | GLOBER | EQU 184 GLOBAL ERROR FLAG -- WM MEANS ERROR                     |     |    | 0184   |             |      |      |        |        |
| 113 |    |     |       | *      |   |     |    |        |             |      |      |        |        |
| 114 |    |     |       |        | EXT00 SNAPSH, LOADNX, CDOVLY                                    |     |    |        |             |      |      |        | MACRO  |
| 115 |    |     |       | SNAPSH | EQU 333   |     |    | 0333   |             |      |      |        | GEN    |
| 116 |    |     |       | PHASLD | EQU 381   |     |    | 0381   |             |      |      |        | GEN    |
| 117 |    |     |       | SNAPEX | EQU 564   |     |    | 0564   |             |      |      |        | GEN    |
| 118 |    |     |       | LOADNX | EQU 700 CARD OVERLAY UNLESS NOP                                 |     |    | 0700   |             |      |      |        | GEN    |
| 119 |    |     |       | CDOVLY | EQU 700 1 IF LOADING FROM CARDS, N IF FROM TAPE                 |     |    | 0700   |             |      |      |        | GEN    |
| 120 |    |     |       | TPREAD | EQU 704 LOAD OVERLAY FROM TAPE                                  |     |    | 0704   |             |      |      |        | GEN    |
| 121 |    |     |       | TPERR  | EQU 728   |     |    | 0728   |             |      |      |        | GEN    |
| 122 |    |     |       | *      |   |     |    |        |             |      |      |        |        |
| 123 |    |     |       |        | EXT03 START, TOP OF PHASE 3                                     |     |    |        |             |      |      |        | MACRO  |
| 124 |    |     |       | BEGIN3 | EQU 838   |     |    | 0838   |             |      |      |        | GEN    |
| 125 |    |     |       | TOP3   | EQU 2600  |     |    | 2600   |             |      |      |        | GEN    |
| 126 |    |     |       | *      |   |     |    |        |             |      |      |        |        |
| 127 |    |     |       | PHAS40 | LDPH CGOTO,LOADAD,BEGN40,,,40                                   |     |    |        |             |      |      |        | MACRO  |
|     |    |     |       | *      | PHAZ LDPH [PHASID],LOADAD,ENTAD[,SKIPFG,SKIP],[NUMBER][,HALT]   |     |    |        |             |      |      |        | GEN    |
|     |    |     |       | *      | XFR PHASZ PROHIBITED IN A MACRO                                 |     |    |        |             |      |      |        | GEN    |
|     |    |     |       | *      |   |     |    |        |             |      |      |        | GEN    |
|     |    |     |       | *      | LOAD A BLOCK  |     |    |        |             |      |      |        | GEN    |
|     |    |     |       | *      |   |     |    |        |             |      |      |        | GEN    |
| 128 |    |     |       | )6J003 | EQU 110 PHASE ID  |     |    | 0110   |             |      |      |        | GEN    |
| 129 |    |     |       | )6K003 | EQU 700 LOAD NEXT PHASE   |     |    | 0700   |             |      |      |        | GEN    |
| 130 |    |     |       | )6L003 | EQU 704 TAPE READ INSTRUCTION                                   |     |    | 0704   |             |      |      |        | GEN    |
| 131 |    |     |       | )6M003 | EQU 728 TAPE ERROR HANDLER                                      |     |    | 0728   |             |      |      |        | GEN    |
|     |    |     |       | *      |   |     |    |        |             |      |      |        | GEN    |
| 132 |    |     |       | ORG    | 201   |     |    |        | 0201        |      |      |        |        |
| 133 |    |     |       | PHAS40 | EQU *&1   |     |    | 0201   |             |      |      |        | GEN    |
| 134 |    |     |       | LCA    | )9J003,)6J003   |     |    | 7 0201 | L 248 110   | GEN  | 1    | 248    | 110    |
| 135 |    |     |       | BCE    | )6K003,)6K003,1 Q: LOADING FROM CARDS?                          |     |    | 8 0208 | B 700 700 1 | GEN  | 1    | 700    | 700    |
| 136 |    |     |       | BCE    | )6K003,)6L003&4,0 Q: LOADING FROM AUTOCODER TAPE?               |     |    | 8 0216 | B 700 708 0 | GEN  | 1    | 700    | 708    |
| 137 |    |     |       | RTW    | 1,LOADAD READ THE BLOCK   |     |    | 8 0224 | L %U1 838 R | GEN  | 1    | %U1    | 838    |
| 138 |    |     |       | BER    | )6M003 Q: TAPE ERROR?   |     |    | 5 0232 | B 728 L     | GEN  | 1    | 728    |        |
| 139 |    |     |       | CS     | BEGN40,)9R003 ENTER THE BLOCK                                   |     |    | 7 0237 | / 838 252   | GEN  | 2    | 838    | 252    |
| 140 |    |     |       | )9J003 | DCW @CGOTO@ PHASE ID  |     |    | 5 0248 |             | GEN  | 2    |        |        |
| 141 |    |     |       | DC     | #1  |     |    | 1 0249 |             | GEN  | 2    |        |        |
| 142 |    |     |       | DC     | @40@ PHASE NUMBER   |     |    | 2 0251 |             | GEN  | 2    |        |        |
| 143 |    |     |       | )9R003 | DCW @}@   |     |    | 1 0252 |             | GEN  | 2    |        |        |
| 144 |    |     |       | XFR    | PHAS40  |     |    |        | B 201       |      | 3    | 201    |        |

| SEQ | PG    | LIN | LABEL  | OP       | OPERANDS                          | SFX | CT | LOCN | INSTRUCTION | TYPE  | CARD | A-ADDR | B-ADDR |
|-----|-------|-----|--------|----------|-----------------------------------|-----|----|------|-------------|-------|------|--------|--------|
| 145 |       |     | *      |          |                                   |     |    |      |             |       |      |        |        |
| 146 |       |     |        | ORG      | BEGIN3                            |     |    |      | 0838        |       |      |        |        |
| 147 |       |     | LOADAD | EQU      | *&1                               |     |    | 0838 |             |       |      |        |        |
| 148 | 838   |     | BEGN40 | SW       | GM,GM2                            | 7   |    | 0838 | , S95       | T09   | 4    | 1295   | 1309   |
| 149 | 845   |     | LOOP   | BW       | DONE,0&X1                         | 8   |    | 0845 | V T20       | 0 0 1 | 4    | 1320   | 000+1  |
| 150 | 853   |     |        | MCW      | 0&X1,SEQNO                        | 7   |    | 0853 | M 0 0       | T48   | 4    | 000+1  | 1348   |
| 151 | 860   |     |        | MCW      | SEQNO,SEQNO2                      | 7   |    | 0860 | M T48       | T12   | 4    | 1348   | 1312   |
| 152 | 867   |     |        | MCW      | RBRACK,1&X1                       | 7   |    | 0867 | M T49       | 0 1   | 4    | 1349   | 001+1  |
| 153 | 874   |     |        | SBR      | TSTBR&6,1&X1                      | 7   |    | 0874 | H  78       | 0 1   | 5    | 1078   | 001+1  |
| 154 | 881   |     |        | C        | 0&X1                              | 4   |    | 0881 | C 0 0       |       | 5    | 000+1  |        |
| 155 | 885   |     |        | SAR      | X1                                | 4   |    | 0885 | Q 089       |       | 5    | 089    |        |
| 156 | 889   |     |        | C        | 2&X1,KT                           | 7   |    | 0889 | C 0 2       | T50   | 5    | 002+1  | 1350   |
| 157 | 896   |     |        | BU       | ALMOST NO                         | 5   |    | 0896 | B T13       | /     | 5    | 1313   |        |
| 158 | 901   |     |        | S        | W2                                | 4   |    | 0901 | S T52       |       | 5    | 1352   |        |
| 159 | 905   |     | COUNT  | MN       | 0&X1                              | 4   |    | 0905 | D 0 0       |       | 5    | 000+1  |        |
| 160 | 909   |     |        | MN       |                                   | 1   |    | 0909 | D           |       | 6    |        |        |
| 161 | 910   |     |        | MN       |                                   | 1   |    | 0910 | D           |       | 6    |        |        |
| 162 | 911   |     |        | SAR      | X1                                | 4   |    | 0911 | Q 089       |       | 6    | 089    |        |
| 163 | 915   |     |        | A        | KP1,W2                            | 7   |    | 0915 | A T53       | T52   | 6    | 1353   | 1352   |
| 164 | 922   |     |        | C        | W2,KP11                           | 7   |    | 0922 | C T52       | T55   | 6    | 1352   | 1355   |
| 165 | 929   |     |        | BE       | SYNTAX YES, SYNTAX ERROR          | 5   |    | 0929 | B S23       | S     | 6    | 1223   |        |
| 166 | 934   |     |        | C        | 0&X1,KCOMMA                       | 7   |    | 0934 | C 0 0       | T56   | 6    | 000+1  | 1356   |
| 167 | 941   |     |        | BU       | COUNT                             | 5   |    | 0941 | B 905       | /     | 7    | 905    |        |
| 168 | 946   |     |        | MN       | 0&X1                              | 4   |    | 0946 | D 0 0       |       | 7    | 000+1  |        |
| 169 | 950   |     |        | SAR      | X1                                | 4   |    | 0950 | Q 089       |       | 7    | 089    |        |
| 170 | 954   |     |        | B        | GETADR                            | 4   |    | 0954 | B /14       |       | 7    | 1114   |        |
| 171 | 958   |     |        | LCA      | SEQNO2,0&X3                       | 7   |    | 0958 | L T12       | 0?0   | 7    | 1312   | 000+3  |
| 172 | 965   |     |        | LCA      | BRANCH&3                          | 4   |    | 0965 | L T45       |       | 7    | 1345   |        |
| 173 | 969   |     |        | LCA      |                                   | 1   |    | 0969 | L           |       | 7    |        |        |
| 174 | 970   |     |        | LCA      |                                   | 1   |    | 0970 | L           |       | 8    |        |        |
| 175 | 971   |     |        | SBR      | X3                                | 4   |    | 0971 | H 099       |       | 8    | 099    |        |
| 176 | 975   |     |        | SBR      | X1,1&X1                           | 7   |    | 0975 | H 089       | 0 1   | 8    | 089    | 001+1  |
| 177 |       |     | *      |          |                                   |     |    |      |             |       |      |        |        |
| 178 |       |     | *      | GENERATE | BCE INSTRUCTIONS TO TEST SELECTOR |     |    |      |             |       |      |        |        |
| 179 |       |     | *      |          |                                   |     |    |      |             |       |      |        |        |
| 180 | 982   |     | GENBCE | BW       | ENDSTM,4&X1                       | 8   |    | 0982 | V  53       | 0 4 1 | 8    | 1053   | 004+1  |
| 181 | 990   |     |        | SW       | BCE-6                             | 4   |    | 0990 | , T30       |       | 8    | 1330   |        |
| 182 | 994   |     |        | MN       | W2,BCE                            | 7   |    | 0994 | D T52       | T36   | 8    | 1352   | 1336   |
| 183 | 1 001 |     |        | MCW      | W3                                | 4   |    | 1001 | M T02       |       | 8    | 1302   |        |
| 184 | 1 005 |     |        | MCW      | 6&X1                              | 4   |    | 1005 | M 0 6       |       | 9    | 006+1  |        |
| 185 | 1 009 |     |        | SAR      | X1                                | 4   |    | 1009 | Q 089       |       | 9    | 089    |        |
| 186 | 1 013 |     |        | CW       | BCE-6                             | 4   |    | 1013 | ) T30       |       | 9    | 1330   |        |
| 187 | 1 017 |     |        | MZ       | X2ZONE,BCE-5                      | 7   |    | 1017 | Y T57       | T31   | 9    | 1357   | 1331   |
| 188 | 1 024 |     |        | MZ       | *-4,BCE-2                         | 7   |    | 1024 | Y  26       | T34   | 9    | 1026   | 1334   |
| 189 | 1 031 |     |        | LCA      | BCE,0&X3                          | 7   |    | 1031 | L T36       | 0?0   | 9    | 1336   | 000+3  |
| 190 | 1 038 |     |        | SBR      | X3                                | 4   |    | 1038 | H 099       |       | 9    | 099    |        |
| 191 | 1 042 |     |        | S        | KP1,W2                            | 7   |    | 1042 | S T53       | T52   | 10   | 1353   | 1352   |
| 192 | 1 049 |     |        | B        | GENBCE                            | 4   |    | 1049 | B 982       |       | 10   | 982    |        |
| 193 |       |     | *      |          |                                   |     |    |      |             |       |      |        |        |
| 194 | 1 053 |     | ENDSTM | LCA      | GM,0&X3                           | 7   |    | 1053 | L S95       | 0?0   | 10   | 1295   | 000+3  |

| SEQ | PG | LIN | LABEL  | OP  | OPERANDS  | SFX | CT | LOCN | INSTRUCTION       | TYPE | CARD | A-ADDR | B-ADDR |
|-----|----|-----|--------|-----|---|-----|----|------|-------------------|------|------|--------|--------|
| 195 | 1  | 060 |        | SBR | X3  | 4   |    | 1060 | H 099             |      | 10   | 099    |        |
| 196 | 1  | 064 | BOTTOM | C   | 0&X1 BOTTOM OF LOOP -- GET DOWN TO                      | 4   |    | 1064 | C 0 0             |      | 10   | 000+1  |        |
| 197 | 1  | 068 |        | SAR | X1 BOTTOM OF STATEMENT                                  | 4   |    | 1068 | Q 089             |      | 10   | 089    |        |
| 198 | 1  | 072 | TSTBRK | BCE | LOOP,0,] NOT TOO BIG IF BRACKET NOT CLOBBBERED          | 8   |    | 1072 | B 845 000 ]       |      | 10   | 845    | 000    |
| 199 | 1  | 080 |        | CS  | 332   | 4   |    | 1080 | / 332             |      | 11   | 332    |        |
| 200 | 1  | 084 |        | CS  |   | 1   |    | 1084 | /                 |      | 11   |        |        |
| 201 | 1  | 085 |        | CC  | 1   | 2   |    | 1085 | F 1               |      | 11   |        |        |
| 202 | 1  | 087 |        | MCW | ERROR2,270  | 7   |    | 1087 | M T93 270         |      | 11   | 1393   | 270    |
| 203 | 1  | 094 |        | W   |   | 1   |    | 1094 | 2                 |      | 11   |        |        |
| 204 | 1  | 095 |        | CC  | 1   | 2   |    | 1095 | F 1               |      | 11   |        |        |
| 205 | 1  | 097 |        | BCE | HALT,CDOVLY,1   | 8   |    | 1097 | B /10 700 1       |      | 11   | 1110   | 700    |
| 206 | 1  | 105 |        | RWD | 1   | 5   |    | 1105 | U %U1 R           |      | 12   | %U1    |        |
| 207 | 1  | 110 | HALT   | H   | HALT  | 4   |    | 1110 | . /10             |      | 12   | 1110   |        |
| 208 |    |     |        | *   |   |     |    |      |                   |      |      |        |        |
| 209 |    |     |        | *   | VERIFY THAT THE FIELD AFTER THE BRANCHES IS AN ADDRESS, |     |    |      |                   |      |      |        |        |
| 210 |    |     |        | *   | THAT IS, THE DIGIT PART OF ALL THREE CHARACTERS IS IN   |     |    |      |                   |      |      |        |        |
| 211 |    |     |        | *   | THE RANGE 0-9. MOVE IT TO W3.                           |     |    |      |                   |      |      |        |        |
| 212 |    |     |        | *   |   |     |    |      |                   |      |      |        |        |
| 213 | 1  | 114 | GETADR | SBR | GETADX&3  | 4   |    | 1114 | H S22             |      | 12   | 1222   |        |
| 214 | 1  | 118 |        | S   | W1  | 4   |    | 1118 | S T94             |      | 12   | 1394   |        |
| 215 | 1  | 122 | GETCH  | MN  | 0&X1,TSTDGT&7   | 7   |    | 1122 | D 0 0 /55         |      | 12   | 000+1  | 1155   |
| 216 | 1  | 129 |        | SAR | X1  | 4   |    | 1129 | Q 089             |      | 12   | 089    |        |
| 217 | 1  | 133 |        | BCE | OKADR,W1,B TESTED ALL THREE CHARACTERS?                 | 8   |    | 1133 | B /81 T94 B       |      | 12   | 1181   | 1394   |
| 218 | 1  | 141 |        | A   | KP1,W1  | 7   |    | 1141 | A T53 T94         |      | 13   | 1353   | 1394   |
| 219 | 1  | 148 | TSTDGT | BCE | GETCH,DIGITS,0 NUMERIC PART IS A DIGIT?                 | 8   |    | 1148 | B /22 U04 0       |      | 13   | 1122   | 1404   |
| 220 | 1  | 156 |        | B   |   | 1   |    | 1156 | B                 |      | 13   |        |        |
| 221 | 1  | 157 |        | B   |   | 1   |    | 1157 | B                 |      | 13   |        |        |
| 222 | 1  | 158 |        | B   |   | 1   |    | 1158 | B                 |      | 13   |        |        |
| 223 | 1  | 159 |        | B   |   | 1   |    | 1159 | B                 |      | 13   |        |        |
| 224 | 1  | 160 |        | B   |   | 1   |    | 1160 | B                 |      | 13   |        |        |
| 225 | 1  | 161 |        | B   |   | 1   |    | 1161 | B                 |      | 14   |        |        |
| 226 | 1  | 162 |        | B   |   | 1   |    | 1162 | B                 |      | 14   |        |        |
| 227 | 1  | 163 |        | B   |   | 1   |    | 1163 | B                 |      | 14   |        |        |
| 228 | 1  | 164 |        | B   |   | 1   |    | 1164 | B                 |      | 14   |        |        |
| 229 | 1  | 165 | GETGM  | BCE | SYNTAX,0&X1,}   | 8   |    | 1165 | B S23 0 0 } GMARK |      | 14   | 1223   | 000+1  |
| 230 | 1  | 173 |        | SBR | X1  | 4   |    | 1173 | H 089             |      | 14   | 089    |        |
| 231 | 1  | 177 |        | B   | GETGM   | 4   |    | 1177 | B /65             |      | 14   | 1165   |        |
| 232 | 1  | 181 | OKADR  | BM  | *&5,2&X1  | 8   |    | 1181 | V /93 0 2 K       |      | 15   | 1193   | 002+1  |
| 233 | 1  | 189 |        | B   | GETGM   | 4   |    | 1189 | B /65             |      | 15   | 1165   |        |
| 234 | 1  | 193 |        | MZ  | KB1,2&X1  | 7   |    | 1193 | Y U05 0 2         |      | 15   | 1405   | 002+1  |
| 235 | 1  | 200 |        | MCW | 3&X1,W3   | 7   |    | 1200 | M 0 3 T02         |      | 15   | 003+1  | 1302   |
| 236 | 1  | 207 |        | C   | 0&X1,GM   | 7   |    | 1207 | C 0 0 S95         |      | 15   | 000+1  | 1295   |
| 237 | 1  | 214 |        | BU  | GETGM   | 5   |    | 1214 | B /65 /           |      | 15   | 1165   |        |
| 238 | 1  | 219 | GETADX | B   | 0   | 4   |    | 1219 | B 000             |      | 16   | 000    |        |
| 239 |    |     |        | *   |   |     |    |      |                   |      |      |        |        |
| 240 | 1  | 223 | SYNTAX | BWZ | *&5,SEQNO,2   | 8   |    | 1223 | V S35 T48 2       |      | 16   | 1235   | 1348   |
| 241 | 1  | 231 |        | B   | *&9   | 4   |    | 1231 | B S43             |      | 16   | 1243   |        |
| 242 | 1  | 235 |        | BWZ | *&15,SEQNO-2,2  | 8   |    | 1235 | V S57 T46 2       |      | 16   | 1257   | 1346   |
| 243 | 1  | 243 |        | MCW | SEQNO,X2  | 7   |    | 1243 | M T48 094         |      | 16   | 1348   | 094    |
| 244 | 1  | 250 |        | MCW | 0&X2,SEQNO  | 7   |    | 1250 | M 0!0 T48         |      | 16   | 000+2  | 1348   |

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|-----|----|-----|--------|------------|--|-----|----|------|-------------|-------|------|---------|--------|
| 245 | 1  | 257 |        | CS         | 332  |     | 4  | 1257 | / 332       |       | 17   | 332     |        |
| 246 | 1  | 261 |        | CS         |  |     | 1  | 1261 | /           |       | 17   |         |        |
| 247 | 1  | 262 |        | SW         | GLOBER   |     | 4  | 1262 | , 184       |       | 17   | 184     |        |
| 248 | 1  | 266 |        | MN         | SEQNO,247                                      |     | 7  | 1266 | D T48 247   |       | 17   | 1348    | 247    |
| 249 | 1  | 273 |        | MN         |  |     | 1  | 1273 | D           |       | 17   |         |        |
| 250 | 1  | 274 |        | MN         |  |     | 1  | 1274 | D           |       | 17   |         |        |
| 251 | 1  | 275 |        | MCW        | ERR34  |     | 4  | 1275 | M U49       |       | 17   | 1449    |        |
| 252 | 1  | 279 |        | W          |  |     | 1  | 1279 | 2           |       | 18   |         |        |
| 253 | 1  | 280 |        | BCV        | *&5  |     | 5  | 1280 | B S89 @     |       | 18   | 1289    |        |
| 254 | 1  | 285 |        | B          | *&3  |     | 4  | 1285 | B S91       |       | 18   | 1291    |        |
| 255 | 1  | 289 |        | CC         | 1  |     | 2  | 1289 | F 1         |       | 18   |         |        |
| 256 | 1  | 291 |        | B          | BOTTOM   |     | 4  | 1291 | B  64       |       | 18   | 1064    |        |
| 257 |    |     | *      |            |  |     |    |      |             |       |      |         |        |
| 258 | 1  | 295 | GM     | DC         | @}@  |     | 1  | 1295 |             | GMARK | 18   |         |        |
| 259 | 1  | 299 |        | DCW        | @T840@   |     | 4  | 1299 |             |       | 18   |         |        |
| 260 | 1  | 302 | W3     | DCW        | #3   |     | 3  | 1302 |             |       | 18   |         |        |
| 261 | 1  | 305 |        | DCW        | #3   |     | 3  | 1305 |             |       | 19   |         |        |
| 262 | 1  | 308 |        | DCW        | #3   |     | 3  | 1308 |             |       | 19   |         |        |
| 263 | 1  | 309 | GM2    | DC         | @}@  |     | 1  | 1309 |             | GMARK | 19   |         |        |
| 264 | 1  | 312 | SEQNO2 | DC         | #3   |     | 3  | 1312 |             |       | 19   |         |        |
| 265 |    |     | *      |            |  |     |    |      |             |       |      |         |        |
| 266 | 1  | 313 | ALMOST | SBR        | X1,5&X1  |     | 7  | 1313 | H 089 0 5   |       | 19   | 089     | 005+1  |
| 267 | 1  | 320 | DONE   | BSS        | SNAPSH,C                                       |     | 5  | 1320 | B 333 C     |       | 19   | 333     |        |
| 268 | 1  | 339 |        | B          | LOADNX   |     | 4  | 1325 | B 700       |       | 19   | 700     |        |
| 269 |    |     | *      |            |  |     |    |      |             |       |      |         |        |
| 270 | 1  | 350 | BCE    | DCW        | @BXXXXXXA@ BCE XXX,XXX,A                       |     | 8  | 1336 |             |       | 19   |         |        |
| 271 | 1  | 351 |        | NOP        | 1001   |     | 4  | 1337 | N  01       |       | 19   | 1001    |        |
| 272 | 1  | 355 |        | H          |  |     | 1  | 1341 | .           |       | 20   |         |        |
| 273 | 1  | 356 | BRANCH | B          | 15992&X3                                       |     | 4  | 1342 | B IIB       |       | 20   | 15992+3 |        |
| 274 | 1  | 362 | SEQNO  | DCW        | #3   |     | 3  | 1348 |             |       | 20   |         |        |
| 275 | 1  | 363 | RBRACK | DCW        | @}@  |     | 1  | 1349 |             |       | 20   |         |        |
| 276 | 1  | 364 | KT     | DCW        | @T@ COMPUTED GOTO STATEMENT CODE               |     | 1  | 1350 |             |       | 20   |         |        |
| 277 | 1  | 366 | W2     | DCW        | #2   |     | 2  | 1352 |             |       | 20   |         |        |
| 278 | 1  | 367 | KP1    | DCW        | &1   |     | 1  | 1353 |             |       | 20   |         |        |
| 279 | 1  | 369 | KP11   | DCW        | &11  |     | 2  | 1355 |             |       | 21   |         |        |
| 280 | 1  | 370 | KCOMMA | DCW        | @,@  |     | 1  | 1356 |             |       | 21   |         |        |
| 281 | 1  | 371 | X2ZONE | DCW        | @K@  |     | 1  | 1357 |             |       | 21   |         |        |
| 282 | 1  | 407 | ERROR2 | DCW        | @MESSAGE 2 - OBJECT PROGRAM TOO LARGE@         |     | 36 | 1393 |             |       | 22   |         |        |
| 283 | 1  | 408 | W1     | DCW        | #1   |     | 1  | 1394 |             |       | 22   |         |        |
| 284 | 1  | 418 | DIGITS | DCW        | @0123456789@                                   |     | 10 | 1404 |             |       | 23   |         |        |
| 285 | 1  | 419 | KB1    | DCW        | #1   |     | 1  | 1405 |             |       | 23   |         |        |
| 286 | 1  | 463 | ERR34  | DCW        | @ERROR 34 - COMPUTED GO TO SYNTAX, STATEMENT @ |     | 44 | 1449 |             |       | 25   |         |        |
| 287 | 1  | 469 | GMWM   | DCW        | @}@  |     | 1  | 1450 |             | GMARK | 25   |         |        |
| 288 |    |     |        | XFR        | BEGN40   |     |    |      | B 838       |       | 26   | 838     |        |
| 289 |    |     | CLRME  | CLRA       | LOADAD,GMWM                                    |     |    |      |             | MACRO |      |         |        |
|     |    |     | *      | CLRA       | CLRBOT,CLRTOP[,ORG,GMWMAD]                     |     |    |      |             | GEN   |      |         |        |
|     |    |     | *      |            |  |     |    |      |             | GEN   |      |         |        |
|     |    |     | *      | CLEAR CORE | AFTER A PHASE USING THE CLRTOP ADDRESS         |     |    |      |             | GEN   |      |         |        |
|     |    |     | *      |            |  |     |    |      |             | GEN   |      |         |        |
| 290 |    |     | ORG    |            | 201  |     |    |      | 0201        |       |      |         |        |

| SEQ | PG | LIN | LABEL  | OP  | OPERANDS                                  | SFX | CT | LOCN | INSTRUCTION | TYPE | CARD | A-ADDR | B-ADDR |
|-----|----|-----|--------|-----|---|-----|----|------|-------------|------|------|--------|--------|
|     |    |     |        |     |   |     |    |      |             | GEN  |      |        |        |
|     |    |     |        |     | * CLEAR DOWN TO CLRBOT & X00 THE EASY WAY |     |    |      |             | GEN  |      |        |        |
|     |    |     |        |     |   |     |    |      |             | GEN  |      |        |        |
| 291 |    |     | CLRME  | EQU | *&1                                       |     |    | 0201 |             | GEN  |      |        |        |
| 292 |    |     | )0J004 | CS  | GMWM CLEAR FROM CLRTOP                    | 4   |    | 0201 | / U50       | GEN  | 27   | 1450   |        |
| 293 |    |     |        | SBR | )0J004&3                                  | 4   |    | 0205 | H 204       | GEN  | 27   | 204    |        |
| 294 |    |     |        | SBR | )0L004&6                                  | 4   |    | 0209 | H 250       | GEN  | 27   | 250    |        |
| 295 |    |     |        | C   | )0J004&3,)0M004 DOWN TO CLRBOT & X00?     | 7   |    | 0213 | C 204 261   | GEN  | 27   | 204    | 261    |
| 296 |    |     |        | BU  | )0J004                                    | 5   |    | 0220 | B 201 /     | GEN  | 27   | 201    |        |
|     |    |     |        |     |   |     |    |      |             | GEN  |      |        |        |
|     |    |     |        |     | * NOW CLEAR DOWN TO CLRBOT THE HARD WAY   |     |    |      |             | GEN  |      |        |        |
|     |    |     |        |     |   |     |    |      |             | GEN  |      |        |        |
| 297 |    |     | )0K004 | C   | )0L004&6,)0N004                           | 7   |    | 0225 | C 250 264   | GEN  | 27   | 250    | 264    |
| 298 |    |     |        | BU  | )0L004                                    | 5   |    | 0232 | B 244 /     | GEN  | 27   | 244    |        |
| 299 |    |     |        | CS  | LOADNX,)0Q004 LOAD THE NEXT BLOCK AT 1    | 7   |    | 0237 | / 700 271   | GEN  | 28   | 700    | 271    |
| 300 |    |     | )0L004 | LCA | )0P004,0-0 CLEAR WITH BLANK AND WORD MARK | 7   |    | 0244 | L 265 000   | GEN  | 28   | 265    | 000    |
| 301 |    |     |        | SBR | )0L004&6                                  | 4   |    | 0251 | H 250       | GEN  | 28   | 250    |        |
| 302 |    |     |        | B   | )0K004                                    | 4   |    | 0255 | B 225       | GEN  | 28   | 225    |        |
| 303 |    |     | )0M004 | DSA | )0R004 CLRBOT & X00 - 1                   | 3   |    | 0261 | 899         | GEN  | 28   | 899    |        |
| 304 |    |     | )0N004 | DSA | LOADAD CLRBOT                             | 3   |    | 0264 | 838         | GEN  | 28   | 838    |        |
| 305 |    |     | )0P004 | DCW | #1  | 1   |    | 0265 |             | GEN  | 28   |        |        |
| 306 |    |     |        | DC  | @CLRA @ IDENTIFY IN A DECK, TAPE, OR DUMP | 5   |    | 0270 |             | GEN  | 28   |        |        |
| 307 |    |     | )0Q004 | DCW | @}@                                       | 1   |    | 0271 |             | GEN  | 29   |        |        |
| 308 |    |     |        | ORG | LOADAD&X00                                |     |    |      | 0900        |      |      |        |        |
| 309 |    |     | )0R004 | EQU | * CLRBOT & X00 - 1                        |     |    | 0899 |             | GEN  |      |        |        |
| 310 |    |     |        | XFR | CLRME                                     |     |    |      | B 201       |      | 30   | 201    |        |

| SYMBOL | ADDRESS | SYMBOL | ADDRESS | SYMBOL | ADDRESS | SYMBOL | ADDRESS | SYMBOL | ADDRESS | SYMBOL | ADDRESS |
|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
| )0J004 | 0201: 0 | )0K004 | 0225: 0 | )0L004 | 0244: 0 | )0M004 | 0261: 0 | )0N004 | 0264: 0 | )0P004 | 0265: 0 |
| )0Q004 | 0271: 0 | )0R004 | 0899: 0 | )6J003 | 0110: 0 | )6K003 | 0700: 0 | )6L003 | 0704: 0 | )6M003 | 0728: 0 |
| )9J003 | 0248: 0 | )9R003 | 0252: 0 | ALMOST | 1313: 0 | BCE    | 1336: 0 | BEGIN3 | 0838: 0 | BEGN40 | 0838: 0 |
| BOTTOM | 1064: 0 | BRANCH | 1342: 0 | CDOVLY | 0700: 0 | CLRME  | 0201: 0 | COUNT  | 0905: 0 | DIGITS | 1404: 0 |
| DONE   | 1320: 0 | ENDSTM | 1053: 0 | ERR34  | 1449: 0 | ERROR2 | 1393: 0 | GENBCE | 0982: 0 | GETADR | 1114: 0 |
| GETADX | 1219: 0 | GETCH  | 1122: 0 | GETGM  | 1165: 0 | GLOBER | 0184: 0 | GM     | 1295: 0 | GM2    | 1309: 0 |
| GMWM   | 1450: 0 | HALT   | 1110: 0 | KB1    | 1405: 0 | KCOMMA | 1356: 0 | KP1    | 1353: 0 | KP11   | 1355: 0 |
| KT     | 1350: 0 | LOADAD | 0838: 0 | LOADNX | 0700: 0 | LOOP   | 0845: 0 | OKADR  | 1181: 0 | PHAS40 | 0201: 0 |
| PHASLD | 0381: 0 | RBRACK | 1349: 0 | SEQNO  | 1348: 0 | SEQNO2 | 1312: 0 | SNAPEX | 0564: 0 | SNAPSH | 0333: 0 |
| SYNTAX | 1223: 0 | TOP3   | 2600: 0 | TPERR  | 0728: 0 | TPREAD | 0704: 0 | TSTBRK | 1072: 0 | TSTDGT | 1148: 0 |
| W1     | 1394: 0 | W2     | 1352: 0 | W3     | 1302: 0 | X1     | 0089: 0 | X2     | 0094: 0 | X2ZONE | 1357: 0 |
| X3     | 0099: 0 |        |         |        |         |        |         |        |         |        |         |

## UNREFERENCED SYMBOLS

PHASLD SNAPEX TOP3 TPERR TPREAD