

| SEQ | PG | LIN | LABEL  | OP       | OPERANDS  | SFX | CT | LOCN | INSTRUCTION | TYPE | CARD | A-ADDR | B-ADDR |
|-----|----|-----|--------|----------|---|-----|----|------|-------------|------|------|--------|--------|
| 101 |    |     | JOB    |          | FORTRAN COMPILER -- SNAPSHOT PHASE -- PHASE 56                  |     |    |      |             |      |      |        |        |
| 102 |    |     | CTL    |          | 6611  |     |    |      |             |      |      |        |        |
| 103 |    |     | *      |          |   |     |    |      |             |      |      |        |        |
| 104 |    |     | *      |          | A SNAPSHOT OF THE GENERATED PROGRAM IS PRINTED IF REQUESTED     |     |    |      |             |      |      |        |        |
| 105 |    |     | *      |          | (IF THERE WERE NO SOURCE PROGRAM ERRORS WHICH WOULD MAKE        |     |    |      |             |      |      |        |        |
| 106 |    |     | *      |          | PROGRAM EXECUTION UNREWARDING).                                 |     |    |      |             |      |      |        |        |
| 107 |    |     | *      |          |   |     |    |      |             |      |      |        |        |
| 108 |    |     | X1     | EQU      | 89  |     |    | 0089 |             |      |      |        |        |
| 109 |    |     | X3     | EQU      | 99  |     |    | 0099 |             |      |      |        |        |
| 110 |    |     | *      |          |   |     |    |      |             |      |      |        |        |
| 111 |    |     | *      |          | STUFF IN THE RESIDENT AREA                                      |     |    |      |             |      |      |        |        |
| 112 |    |     | *      |          |   |     |    |      |             |      |      |        |        |
| 113 |    |     | PHASID | EQU      | 110 PHASE ID, FOR SNAPSHOT DUMPS                                |     |    | 0110 |             |      |      |        |        |
| 114 |    |     | GLOBER | EQU      | 184 GLOBAL ERROR FLAG -- WM MEANS ERROR                         |     |    | 0184 |             |      |      |        |        |
| 115 |    |     | TOPCOR | EQU      | 688 TOP CORE ADDRESS FROM PARAM CARD                            |     |    | 0688 |             |      |      |        |        |
| 116 |    |     | SNAPSW | EQU      | 694 S FOR SNAPSHOT  |     |    | 0694 |             |      |      |        |        |
| 117 |    |     | FMTSW  | EQU      | 696 X FOR NO FORMAT, L FOR LIMITED FORMAT                       |     |    | 0696 |             |      |      |        |        |
| 118 |    |     | *      |          | BLANK FOR ORDINARY, A FOR A CONVERSION                          |     |    |      |             |      |      |        |        |
| 119 |    |     | *      |          |   |     |    |      |             |      |      |        |        |
| 120 |    |     | EXT00  |          | SNAPSH, LOADNX, CDOVLY  |     |    |      |             |      |      | MACRO  |        |
| 121 |    |     | SNAPSH | EQU      | 333   |     |    | 0333 |             |      |      | GEN    |        |
| 122 |    |     | PHASLD | EQU      | 381   |     |    | 0381 |             |      |      | GEN    |        |
| 123 |    |     | SNAPEX | EQU      | 564   |     |    | 0564 |             |      |      | GEN    |        |
| 124 |    |     | LOADNX | EQU      | 700 CARD OVERLAY UNLESS NOP                                     |     |    | 0700 |             |      |      | GEN    |        |
| 125 |    |     | CDOVLY | EQU      | 700 1 IF LOADING FROM CARDS, N IF FROM TAPE                     |     |    | 0700 |             |      |      | GEN    |        |
| 126 |    |     | TPREAD | EQU      | 704 LOAD OVERLAY FROM TAPE                                      |     |    | 0704 |             |      |      | GEN    |        |
| 127 |    |     | TPERR  | EQU      | 728   |     |    | 0728 |             |      |      | GEN    |        |
| 128 |    |     | EXT03  |          | START, TOP OF PHASE 3   |     |    |      |             |      |      | MACRO  |        |
| 129 |    |     | BEGIN3 | EQU      | 838   |     |    | 0838 |             |      |      | GEN    |        |
| 130 |    |     | TOP3   | EQU      | 2600  |     |    | 2600 |             |      |      | GEN    |        |
| 131 |    |     | *      |          |   |     |    |      |             |      |      |        |        |
| 132 |    |     | PHAS56 | LDPH     | SNAPSHOT, LOADAD, BEGN56,,,56                                   |     |    |      |             |      |      | MACRO  |        |
|     |    |     | *      | PHAZ     | LDPH [PHASID], LOADAD, ENTAD[, SKIPFG, SKIP], [NUMBER] [, HALT] |     |    |      |             |      |      | GEN    |        |
|     |    |     | *      | XFR      | PHASZ PROHIBITED IN A MACRO                                     |     |    |      |             |      |      | GEN    |        |
|     |    |     | *      |          |   |     |    |      |             |      |      | GEN    |        |
|     |    |     | *      | LOAD     | A BLOCK   |     |    |      |             |      |      | GEN    |        |
|     |    |     | *      |          |   |     |    |      |             |      |      | GEN    |        |
| 133 |    |     | )6J003 | EQU      | 110 PHASE ID  |     |    | 0110 |             |      |      | GEN    |        |
| 134 |    |     | )6K003 | EQU      | 700 LOAD NEXT PHASE   |     |    | 0700 |             |      |      | GEN    |        |
| 135 |    |     | )6L003 | EQU      | 704 TAPE READ INSTRUCTION                                       |     |    | 0704 |             |      |      | GEN    |        |
| 136 |    |     | )6M003 | EQU      | 728 TAPE ERROR HANDLER  |     |    | 0728 |             |      |      | GEN    |        |
|     |    |     | *      |          |   |     |    |      |             |      |      | GEN    |        |
| 137 |    |     | ORG    |          | 201   |     |    |      | 0201        |      |      |        |        |
| 138 |    |     | PHAS56 | BSS      | )8J003,G  |     | 5  | 0201 | B 257 G     | GEN  | 1    | 257    |        |
| 139 |    |     |        | NOP      | TO PATCH IN TRAPS FOR DEBUGGING                                 |     | 1  | 0206 | N           | GEN  | 1    |        |        |
| 140 |    |     | )0J003 | EQU      | *&1   |     |    | 0207 |             | GEN  |      |        |        |
| 141 |    |     | LCA    | )9J003,  | )6J003  |     | 7  | 0207 | L 280 110   | GEN  | 1    | 280    | 110    |
| 142 |    |     | BCE    | )1J003,  | )6K003,1 Q: LOADING FROM CARDS?                                 |     | 8  | 0214 | B 250 700 1 | GEN  | 1    | 250    | 700    |
| 143 |    |     | BCE    | )1J003,  | )6L003&4,0 Q: LOADING FROM AUTOCODER TAPE?                      |     | 8  | 0222 | B 250 708 0 | GEN  | 1    | 250    | 708    |
| 144 |    |     | RTW    | 1,LOADAD | READ THE BLOCK  |     | 8  | 0230 | L %U1 838 R | GEN  | 1    | %U1    | 838    |

| SEQ | PG    | LIN    | LABEL  | OP  | OPERANDS   | SFX                  | CT | LOCN | INSTRUCTION | TYPE | CARD | A-ADDR | B-ADDR |
|-----|-------|--------|--------|-----|--|----------------------|----|------|-------------|------|------|--------|--------|
| 145 |       |        |        | BER | )6M003   |                      | 5  | 0238 | B 728 L     | GEN  | 2    | 728    |        |
| 146 |       |        |        | CS  | BEGN56,)9R003  |                      | 7  | 0243 | / 838 284   | GEN  | 2    | 838    | 284    |
| 147 |       |        | )1J003 | CS  | )6K003,)9R003  |                      | 7  | 0250 | / 700 284   | GEN  | 2    | 700    | 284    |
| 148 |       |        | )8J003 | SW  | )9R003   |                      | 4  | 0257 | , 284       | GEN  | 2    | 284    |        |
| 149 |       |        |        | MU  | %T0,)8K003,W   |                      | 8  | 0261 | M %T0 273 W | GEN  | 2    | %T0    | 273    |
| 150 |       |        |        | H   | )0J003   |                      | 4  | 0269 | . 207       | GEN  | 2    | 207    |        |
| 151 |       |        | )8K003 | EQU | *&1  |                      |    | 0273 |             | GEN  |      |        |        |
| 152 |       |        | )9J003 | DCW | @SNAPSHOT@   | PHASE ID             | 8  | 0280 |             | GEN  | 3    |        |        |
| 153 |       |        |        | DCW | #1   |                      | 1  | 0281 |             | GEN  | 3    |        |        |
| 154 |       |        |        | DC  | @56@   | PHASE NUMBER         | 2  | 0283 |             | GEN  | 3    |        |        |
| 155 |       |        | )9R003 | DCW | @}@  |                      | 1  | 0284 |             | GEN  | 3    |        |        |
| 156 |       |        |        | XFR | PHAS56   |                      |    |      | B 201       |      | 4    | 201    |        |
| 157 |       |        | *      |     |  |                      |    |      |             |      |      |        |        |
| 158 |       |        |        | ORG | BEGIN3   |                      |    |      | 0838        |      |      |        |        |
| 159 |       |        | LOADAD | EQU | *&1  |                      |    | 0838 |             |      |      |        |        |
| 160 | 838   |        | BEGN56 | BCE | *&5,SNAPSW,S   |                      | 8  | 0838 | B 850 694 S |      | 5    | 850    | 694    |
| 161 | 846   |        |        | B   | DONE   |                      | 4  | 0846 | B /28       |      | 5    | 1128   |        |
| 162 | 850   |        |        | BW  | ERROR,GLOBER   |                      | 8  | 0850 | V /32 184 1 |      | 5    | 1132   | 184    |
| 163 |       |        | *      |     |  |                      |    |      |             |      |      |        |        |
| 164 |       |        | *      |     | SET THE BOTTOM OF THE DUMP, DEPENDING ON THE FORMAT SWITCH |                      |    |      |             |      |      |        |        |
| 165 |       |        | *      |     |  |                      |    |      |             |      |      |        |        |
| 166 | 858   |        |        | SBR | X1,4200  | ASSUME NORMAL FORMAT | 7  | 0858 | H 089 20    |      | 5    | 089    | 4200   |
| 167 | 865   |        |        | SBR | X3,201   |                      | 7  | 0865 | H 099 201   |      | 5    | 099    | 201    |
| 168 | 872   |        |        | BCE | FMTX,FMTSW,X   |                      | 8  | 0872 | B 900 696 X |      | 6    | 900    | 696    |
| 169 | 880   |        |        | BCE | FMTL,FMTSW,L   |                      | 8  | 0880 | B 925 696 L |      | 6    | 925    | 696    |
| 170 | 888   |        |        | BCE | FMTA,FMTSW,A   |                      | 8  | 0888 | B 950 696 A |      | 6    | 950    | 696    |
| 171 | 896   |        |        | B   | GOTBOT   |                      | 4  | 0896 | B 971       |      | 6    | 971    |        |
| 172 | 900   | FMTX   |        | SBR | X1,1600  |                      | 7  | 0900 | H 089 W00   |      | 6    | 089    | 1600   |
| 173 | 907   |        |        | MCW | K1600,BOT  | BOTTOM OF DUMP       | 7  | 0907 | M T00 S95   |      | 7    | 1300   | 1295   |
| 174 | 914   |        |        | MCW | K1696,TOP  | TOP OF FIXED CODE    | 7  | 0914 | M T04 S74   |      | 7    | 1304   | 1274   |
| 175 | 921   |        |        | B   | GOTBOT   |                      | 4  | 0921 | B 971       |      | 7    | 971    |        |
| 176 | 925   | FMTL   |        | SBR | X1,2000  |                      | 7  | 0925 | H 089 !00   |      | 7    | 089    | 2000   |
| 177 | 932   |        |        | MCW | K2000,BOT  | BOTTOM OF DUMP       | 7  | 0932 | M T09 S95   |      | 7    | 1309   | 1295   |
| 178 | 939   |        |        | MCW | K2015,TOP  | TOP OF FIXED CODE    | 7  | 0939 | M T13 S74   |      | 7    | 1313   | 1274   |
| 179 | 946   |        |        | B   | GOTBOT   |                      | 4  | 0946 | B 971       |      | 8    | 971    |        |
| 180 | 950   | FMTA   |        | SBR | X1,4600  |                      | 7  | 0950 | H 089 60    |      | 8    | 089    | 4600   |
| 181 | 957   |        |        | MCW | K4600,BOT  | BOTTOM OF DUMP       | 7  | 0957 | M T18 S95   |      | 8    | 1318   | 1295   |
| 182 | 964   |        |        | MCW | K4616,TOP  | TOP OF FIXED CODE    | 7  | 0964 | M T22 S74   |      | 8    | 1322   | 1274   |
| 183 | 971   | GOTBOT |        | CC  | 1  |                      | 2  | 0971 | F 1         |      | 8    |        |        |
| 184 | 973   |        |        | CS  | 332  |                      | 4  | 0973 | / 332       |      | 8    | 332    |        |
| 185 | 977   |        |        | CS  |  |                      | 1  | 0977 | /           |      | 8    |        |        |
| 186 | 978   |        |        | MCW | SNAP,260   |                      | 7  | 0978 | M T48 260   |      | 9    | 1348   | 260    |
| 187 | 985   |        |        | W   |  |                      | 1  | 0985 | 2           |      | 9    |        |        |
| 188 | 986   |        |        | CC  | J  |                      | 2  | 0986 | F J         |      | 9    |        |        |
| 189 | 988   |        |        | CS  | 332  |                      | 4  | 0988 | / 332       |      | 9    | 332    |        |
| 190 | 992   |        |        | CS  |  |                      | 1  | 0992 | /           |      | 9    |        |        |
| 191 | 993   |        |        | MCW | IOAREA,239   |                      | 7  | 0993 | M T87 239   |      | 9    | 1387   | 239    |
| 192 | 1 000 |        |        | W   |  |                      | 1  | 1000 | 2           |      | 9    |        |        |
| 193 | 1 001 |        |        | CC  | J  |                      | 2  | 1001 | F J         |      | 10   |        |        |
| 194 | 1 003 |        |        | CS  | 332  |                      | 4  | 1003 | / 332       |      | 10   | 332    |        |

| SEQ | PG | LIN | LABEL  | OP  | OPERANDS      | SFX | CT | LOCN | INSTRUCTION | TYPE | CARD | A-ADDR | B-ADDR |
|-----|----|-----|--------|-----|---------------|-----|----|------|-------------|------|------|--------|--------|
| 195 | 1  | 007 |        | CS  |               | 1   |    | 1007 | /           |      | 10   |        |        |
| 196 | 1  | 008 |        | MCW | TOP,248       | 7   |    | 1008 | M S74 248   |      | 10   | 1274   | 248    |
| 197 | 1  | 015 |        | W   |               | 1   |    | 1015 | 2           |      | 10   |        |        |
| 198 | 1  | 016 |        | CC  | K             | 2   |    | 1016 | F K         |      | 10   |        |        |
| 199 | 1  | 018 |        | ZA  | KP3,LINES     | 7   |    | 1018 | ? T88 U33   |      | 10   | 1388   | 1433   |
| 200 | 1  | 025 | OUTER  | CS  | 332           | 4   |    | 1025 | / 332       |      | 11   | 332    |        |
| 201 | 1  | 029 |        | CS  |               | 1   |    | 1029 | /           |      | 11   |        |        |
| 202 | 1  | 030 |        | CC  | J             | 2   |    | 1030 | F J         |      | 11   |        |        |
| 203 | 1  | 032 |        | MCW | BOT,311       | 7   |    | 1032 | M S95 311   |      | 11   | 1295   | 311    |
| 204 | 1  | 039 |        | MCW |               | 1   |    | 1039 | M           |      | 11   |        |        |
| 205 | 1  | 040 |        | MCW |               | 1   |    | 1040 | M           |      | 11   |        |        |
| 206 | 1  | 041 |        | SBR | INDIC&6       | 4   |    | 1041 | H  58       |      | 11   | 1058   |        |
| 207 | 1  | 045 |        | MCW | K9,W2-1       | 7   |    | 1045 | M T89 T92   |      | 12   | 1389   | 1392   |
| 208 | 1  | 052 | INDIC  | MCW | W2-1,0        | 7   |    | 1052 | M T92 000   |      | 12   | 1392   | 000    |
| 209 | 1  | 059 |        | MCW | DOTS          | 4   |    | 1059 | M S83       |      | 12   | 1283   |        |
| 210 | 1  | 063 |        | SBR | INDIC&6       | 4   |    | 1063 | H  58       |      | 12   | 1058   |        |
| 211 | 1  | 067 |        | A   | KM90,W2       | 7   |    | 1067 | A T91 T93   |      | 12   | 1391   | 1393   |
| 212 | 1  | 074 |        | BWZ | INDIC,W2-1,2  | 8   |    | 1074 | V  52 T92 2 |      | 12   | 1052   | 1392   |
| 213 | 1  | 082 |        | A   | KP1,BOT-2     | 7   |    | 1082 | A T94 S93   |      | 13   | 1394   | 1293   |
| 214 | 1  | 089 |        | W   |               | 1   |    | 1089 | 2           |      | 13   |        |        |
| 215 | 1  | 090 | INNER  | SW  | 0&X3          | 4   |    | 1090 | , 0?0       |      | 13   | 000+3  |        |
| 216 | 1  | 094 |        | MCW | 0&X1,0&X3     | 7   |    | 1094 | M 0 0 0?0   |      | 13   | 000+1  | 000+3  |
| 217 | 1  | 101 |        | BW  | *&5,0&X1      | 8   |    | 1101 | V /13 0 0 1 |      | 13   | 1113   | 000+1  |
| 218 | 1  | 109 |        | CW  | 0&X3          | 4   |    | 1109 | ) 0?0       |      | 13   | 000+3  |        |
| 219 | 1  | 113 |        | C   | X1, TOPCOR    | 7   |    | 1113 | C 089 688   |      | 13   | 089    | 688    |
| 220 | 1  | 120 |        | BU  | MORE          | 5   |    | 1120 | B /62 /     |      | 14   | 1162   |        |
| 221 | 1  | 125 |        | W   |               | 1   |    | 1125 | 2           |      | 14   |        |        |
| 222 | 1  | 126 |        | WM  |               | 2   |    | 1126 | 2 )         |      | 14   |        |        |
| 223 | 1  | 128 | DONE   | B   | LOADNX        | 4   |    | 1128 | B 700       |      | 14   | 700    |        |
| 224 | 1  | 158 | ERROR  | CC  | J             | 2   |    | 1132 | F J         |      | 14   |        |        |
| 225 | 1  | 160 |        | CS  | 332           | 4   |    | 1134 | / 332       |      | 14   | 332    |        |
| 226 | 1  | 164 |        | CS  |               | 1   |    | 1138 | /           |      | 14   |        |        |
| 227 | 1  | 165 |        | MCW | DEFER,237     | 7   |    | 1139 | M U31 237   |      | 15   | 1431   | 237    |
| 228 | 1  | 172 |        | W   |               | 1   |    | 1146 | 2           |      | 15   |        |        |
| 229 | 1  | 173 |        | BCV | *&5           | 5   |    | 1147 | B /56 @     |      | 15   | 1156   |        |
| 230 | 1  | 178 |        | B   | *&3           | 4   |    | 1152 | B /58       |      | 15   | 1158   |        |
| 231 | 1  | 182 |        | CC  | 1             | 2   |    | 1156 | F 1         |      | 15   |        |        |
| 232 | 1  | 184 |        | B   | DONE          | 4   |    | 1158 | B /28       |      | 15   | 1128   |        |
| 233 | 1  | 188 | MORE   | SBR | X1,1&X1       | 7   |    | 1162 | H 089 0 1   |      | 15   | 089    | 001+1  |
| 234 | 1  | 195 |        | BCE | MORECH,X3-2,2 | 8   |    | 1169 | B S16 097 2 |      | 16   | 1216   | 097    |
| 235 | 1  | 203 |        | SBR | X3,201        | 7   |    | 1177 | H 099 201   |      | 16   | 099    | 201    |
| 236 | 1  | 210 |        | W   |               | 1   |    | 1184 | 2           |      | 16   |        |        |
| 237 | 1  | 211 |        | WM  |               | 2   |    | 1185 | 2 )         |      | 16   |        |        |
| 238 | 1  | 213 |        | A   | KP1,LINES     | 7   |    | 1187 | A T94 U33   |      | 16   | 1394   | 1433   |
| 239 | 1  | 220 |        | C   | LINES,KP15    | 7   |    | 1194 | C U33 U35   |      | 16   | 1433   | 1435   |
| 240 | 1  | 227 |        | BU  | OUTER         | 5   |    | 1201 | B  25 /     |      | 16   | 1025   |        |
| 241 | 1  | 232 |        | S   | LINES         | 4   |    | 1206 | S U33       |      | 17   | 1433   |        |
| 242 | 1  | 236 |        | CC  | 1             | 2   |    | 1210 | F 1         |      | 17   |        |        |
| 243 | 1  | 238 |        | B   | OUTER         | 4   |    | 1212 | B  25       |      | 17   | 1025   |        |
| 244 | 1  | 242 | MORECH | A   | KP1,X3        | 7   |    | 1216 | A T94 099   |      | 17   | 1394   | 099    |

| SEQ | PG | LIN | LABEL        | OP   | OPERANDS   | SFX | CT | LOCN | INSTRUCTION | TYPE  | CARD | A-ADDR | B-ADDR |
|-----|----|-----|--------------|------|--|-----|----|------|-------------|-------|------|--------|--------|
| 245 | 1  | 249 |              | B    | INNER  |     | 4  | 1223 | B  90       |       | 17   | 1090   |        |
| 246 | 1  | 300 | TOP          | DCW  | @FIXED OBJECT TIME ROUTINES LOCATED FROM 333-4279@ | 48  |    | 1274 |             |       | 19   |        |        |
| 247 | 1  | 309 | DOTS         | DCW  | @9.....@   | 9   |    | 1283 |             |       | 19   |        |        |
| 248 | 1  | 310 |              | DCW  | 9  | 1   |    | 1284 |             |       | 19   |        |        |
| 249 | 1  | 316 |              | DCW  | @-AREA-@   | 6   |    | 1290 |             |       | 19   |        |        |
| 250 | 1  | 321 | BOT          | DCW  | 04200  | 5   |    | 1295 |             |       | 19   |        |        |
| 251 | 1  | 326 | K1600        | DCW  | 01600  | 5   |    | 1300 |             |       | 20   |        |        |
| 252 | 1  | 330 | K1696        | DCW  | 1696   | 4   |    | 1304 |             |       | 20   |        |        |
| 253 | 1  | 335 | K2000        | DCW  | 02000  | 5   |    | 1309 |             |       | 20   |        |        |
| 254 | 1  | 339 | K2015        | DCW  | 2015   | 4   |    | 1313 |             |       | 20   |        |        |
| 255 | 1  | 344 | K4600        | DCW  | 04600  | 5   |    | 1318 |             |       | 20   |        |        |
| 256 | 1  | 348 | K4616        | DCW  | 4616   | 4   |    | 1322 |             |       | 20   |        |        |
| 257 | 1  | 374 | SNAP         | DCW  | @SNAPSHOT OF OBJECT PROGRAM@                       | 26  |    | 1348 |             |       | 21   |        |        |
| 258 | 1  | 413 | IOAREA       | DCW  | @INPUT/OUTPUT AREAS LOCATED FROM 001-332@          | 39  |    | 1387 |             |       | 22   |        |        |
| 259 | 1  | 414 | KP3          | DCW  | &3   | 1   |    | 1388 |             |       | 23   |        |        |
| 260 | 1  | 415 | K9           | DCW  | 9  | 1   |    | 1389 |             |       | 23   |        |        |
| 261 | 1  | 417 | KM90         | DCW  | @I0@   | 2   |    | 1391 |             |       | 23   |        |        |
| 262 | 1  | 419 | W2           | DCW  | #2   | 2   |    | 1393 |             |       | 23   |        |        |
| 263 | 1  | 420 | KP1          | DCW  | &1   | 1   |    | 1394 |             |       | 23   |        |        |
| 264 | 1  | 465 | DEFER        | DCW  | @SNAPSHOT DEFERRED DUE TO INPUT ERRORS@            | 37  |    | 1431 |             |       | 24   |        |        |
| 265 | 1  | 467 | LINES        | DCW  | #2   | 2   |    | 1433 |             |       | 24   |        |        |
| 266 | 1  | 469 | KP15         | DCW  | &15  | 2   |    | 1435 |             |       | 25   |        |        |
| 267 | 1  | 470 | GMWM         | DCW  | @}@  | 1   |    | 1436 |             | GMARK | 25   |        |        |
| 268 |    |     |              | XFR  | BEGN56   |     |    |      | B 838       |       | 26   | 838    |        |
| 269 |    |     | CLRME        | CLRA | LOADAD, GMWM, C                                    |     |    |      |             | MACRO |      |        |        |
|     |    |     | *            | CLRA | CLRBOT, CLRTOP [, SS, HERE, GWMAD]                 |     |    |      |             | GEN   |      |        |        |
|     |    |     | *            |      |  |     |    |      |             | GEN   |      |        |        |
|     |    |     | * CLEAR CORE |      | AFTER A PHASE USING THE CLRTOP ADDRESS             |     |    |      |             | GEN   |      |        |        |
|     |    |     | *            |      |  |     |    |      |             | GEN   |      |        |        |
| 270 |    |     | ORG          |      | 201  |     |    |      | 0201        |       |      |        |        |
|     |    |     | *            |      |  |     |    |      |             | GEN   |      |        |        |
|     |    |     | * CLEAR DOWN |      | TO CLRBOT & X00 THE EASY WAY                       |     |    |      |             | GEN   |      |        |        |
|     |    |     | *            |      |  |     |    |      |             | GEN   |      |        |        |
| 271 |    |     | CLRME        | EQU  | *&1  |     |    | 0201 |             |       |      |        |        |
| 272 |    |     |              | BSS  | SNAPSH, C  | 5   |    | 0201 | B 333 C     |       | 27   | 333    |        |
| 273 |    |     | )0J004       | CS   | GMWM CLEAR FROM CLRTOP                             | 4   |    | 0206 | / U36       |       | 27   | 1436   |        |
| 274 |    |     |              | SBR  | )0J004&3   | 4   |    | 0210 | H 209       |       | 27   | 209    |        |
| 275 |    |     |              | SBR  | )0L004&6   | 4   |    | 0214 | H 255       |       | 27   | 255    |        |
| 276 |    |     |              | C    | )0J004&3, )0M004 DOWN TO CLRBOT & X00?             | 7   |    | 0218 | C 209 266   |       | 27   | 209    | 266    |
| 277 |    |     |              | BU   | )0J004   | 5   |    | 0225 | B 206 /     |       | 27   | 206    |        |
|     |    |     | *            |      |  |     |    |      |             | GEN   |      |        |        |
|     |    |     | * NOW CLEAR  |      | DOWN TO CLRBOT THE HARD WAY                        |     |    |      |             | GEN   |      |        |        |
|     |    |     | *            |      |  |     |    |      |             | GEN   |      |        |        |
| 278 |    |     | )0K004       | C    | )0L004&6, )0N004                                   | 7   |    | 0230 | C 255 269   |       | 27   | 255    | 269    |
| 279 |    |     |              | BU   | )0L004   | 5   |    | 0237 | B 249 /     |       | 28   | 249    |        |
| 280 |    |     |              | CS   | LOADNX, )0Q004 LOAD THE NEXT BLOCK AT 1            | 7   |    | 0242 | / 700 276   |       | 28   | 700    | 276    |
| 281 |    |     | )0L004       | LCA  | )0P004, 0-0 CLEAR WITH BLANK AND WORD MARK         | 7   |    | 0249 | L 270 000   |       | 28   | 270    | 000    |
| 282 |    |     |              | SBR  | )0L004&6   | 4   |    | 0256 | H 255       |       | 28   | 255    |        |
| 283 |    |     |              | B    | )0K004   | 4   |    | 0260 | B 230       |       | 28   | 230    |        |
| 284 |    |     | )0M004       | DSA  | )0R004 CLRBOT & X00 - 1                            | 3   |    | 0266 | 899         |       | 28   | 899    |        |

| SEQ | PG | LIN | LABEL  | OP  | OPERANDS                                  | SFX | CT | LOCN | INSTRUCTION | TYPE | CARD | A-ADDR | B-ADDR |
|-----|----|-----|--------|-----|---|-----|----|------|-------------|------|------|--------|--------|
| 285 |    |     | )0N004 | DSA | LOADAD CLRBOT                             | 3   |    | 0269 | 838         | GEN  | 28   | 838    |        |
| 286 |    |     | )0P004 | DCW | #1  | 1   |    | 0270 |             | GEN  | 29   |        |        |
| 287 |    |     |        | DC  | @CLRA @ IDENTIFY IN A DECK, TAPE, OR DUMP | 5   |    | 0275 |             | GEN  | 29   |        |        |
| 288 |    |     | )0Q004 | DCW | @}@                                       | 1   |    | 0276 |             | GEN  | 29   |        |        |
| 289 |    |     |        | ORG | LOADAD&X00                                |     |    |      | 0900        |      |      |        |        |
| 290 |    |     | )0R004 | EQU | * CLRBOT & X00 - 1                        |     |    | 0899 |             | GEN  |      |        |        |
| 291 |    |     |        | XFR | CLRME                                     |     |    |      | B 201       |      | 30   | 201    |        |

| SYMBOL | ADDRESS | SYMBOL | ADDRESS | SYMBOL | ADDRESS | SYMBOL | ADDRESS | SYMBOL | ADDRESS | SYMBOL | ADDRESS |
|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
| )0J003 | 0207: 0 | )0J004 | 0206: 0 | )0K004 | 0230: 0 | )0L004 | 0249: 0 | )0M004 | 0266: 0 | )0N004 | 0269: 0 |
| )0P004 | 0270: 0 | )0Q004 | 0276: 0 | )0R004 | 0899: 0 | )1J003 | 0250: 0 | )6J003 | 0110: 0 | )6K003 | 0700: 0 |
| )6L003 | 0704: 0 | )6M003 | 0728: 0 | )8J003 | 0257: 0 | )8K003 | 0273: 0 | )9J003 | 0280: 0 | )9R003 | 0284: 0 |
| BEGIN3 | 0838: 0 | BEGN56 | 0838: 0 | BOT    | 1295: 0 | CDOVLY | 0700: 0 | CLRME  | 0201: 0 | DEFER  | 1431: 0 |
| DONE   | 1128: 0 | DOTS   | 1283: 0 | ERROR  | 1132: 0 | FMTA   | 0950: 0 | FMTL   | 0925: 0 | FMTSW  | 0696: 0 |
| FMTX   | 0900: 0 | GLOBER | 0184: 0 | GMWM   | 1436: 0 | GOTBOT | 0971: 0 | INDIC  | 1052: 0 | INNER  | 1090: 0 |
| IOAREA | 1387: 0 | K1600  | 1300: 0 | K1696  | 1304: 0 | K2000  | 1309: 0 | K2015  | 1313: 0 | K4600  | 1318: 0 |
| K4616  | 1322: 0 | K9     | 1389: 0 | KM90   | 1391: 0 | KP1    | 1394: 0 | KP15   | 1435: 0 | KP3    | 1388: 0 |
| LINE5  | 1433: 0 | LOADAD | 0838: 0 | LOADNX | 0700: 0 | MORE   | 1162: 0 | MORECH | 1216: 0 | OUTER  | 1025: 0 |
| PHAS56 | 0201: 0 | PHASID | 0110: 0 | PHASLD | 0381: 0 | SNAP   | 1348: 0 | SNAPEX | 0564: 0 | SNAPSH | 0333: 0 |
| SNAPSW | 0694: 0 | TOP    | 1274: 0 | TOP3   | 2600: 0 | TOPCOR | 0688: 0 | TPERR  | 0728: 0 | TPREAD | 0704: 0 |
| W2     | 1393: 0 | X1     | 0089: 0 | X3     | 0099: 0 |        |         |        |         |        |         |

## UNREFERENCED SYMBOLS

CDOVLY PHASID PHASLD SNAPEX TOP3 TPERR TPREAD