

| SEQ | PG | LIN | LABEL | OP | OPERANDS | SFX | CT | LOCN | INSTRUCTION | TYPE | CARD | A-ADDR | B-ADDR |
|-----|----|-----|--------|-------|---|-----|----|------|-------------|-------|------|--------|--------|
| 101 | | | JOB | | FORTRAN COMPILER -- GOTO PHASE -- PHASE 41 | | | | | | | | |
| 102 | | | CTL | | 6611 | | | | | | | | |
| 103 | | | * | | | | | | | | | | |
| 104 | | | * | | AN UNCONDITIONAL BRANCH INSTRUCTION IS GENERATED IN-LINE | | | | | | | | |
| 105 | | | * | | IN PLACE OF THE ORIGINAL STATEMENT | | | | | | | | |
| 106 | | | * | | | | | | | | | | |
| 107 | | | X1 | EQU | 89 | | | 0089 | | | | | |
| 108 | | | X3 | EQU | 99 | | | 0099 | | | | | |
| 109 | | | * | | | | | | | | | | |
| 110 | | | * | | STUFF IN THE RESIDENT AREA | | | | | | | | |
| 111 | | | * | | | | | | | | | | |
| 112 | | | * | | | | | | | | | | |
| 113 | | | | EXT00 | SNAPSH, LOADNX, CDOVLY | | | | | MACRO | | | |
| 114 | | | SNAPSH | EQU | 333 | | | 0333 | | GEN | | | |
| 115 | | | PHASLD | EQU | 381 | | | 0381 | | GEN | | | |
| 116 | | | SNAPEX | EQU | 564 | | | 0564 | | GEN | | | |
| 117 | | | LOADNX | EQU | 700 | | | 0700 | | GEN | | | |
| 118 | | | CDOVLY | EQU | 700 | | | 0700 | | GEN | | | |
| 119 | | | TPREAD | EQU | 704 | | | 0704 | | GEN | | | |
| 120 | | | TPERR | EQU | 728 | | | 0728 | | GEN | | | |
| 121 | | | * | | | | | | | | | | |
| 122 | | | | EXT03 | START, TOP OF PHASE 3 | | | | | MACRO | | | |
| 123 | | | BEGIN3 | EQU | 838 | | | 0838 | | GEN | | | |
| 124 | | | TOP3 | EQU | 2600 | | | 2600 | | GEN | | | |
| 125 | | | * | | | | | | | | | | |
| 126 | | | PHAS41 | LDPH | GOTO, LOADAD, LOOP, , , 41 | | | | | MACRO | | | |
| | | | * | PHAZ | LDPH [PHASID], LOADAD, ENTAD[, SKIPFG, SKIP], [NUMBER] [, HALT] | | | | | GEN | | | |
| | | | * | XFR | PHASZ PROHIBITED IN A MACRO | | | | | GEN | | | |
| | | | * | | | | | | | GEN | | | |
| | | | * | LOAD | A BLOCK | | | | | GEN | | | |
| | | | * | | | | | | | GEN | | | |
| 127 | | |)6J003 | EQU | 110 | | | 0110 | | GEN | | | |
| 128 | | |)6K003 | EQU | 700 | | | 0700 | | GEN | | | |
| 129 | | |)6L003 | EQU | 704 | | | 0704 | | GEN | | | |
| 130 | | |)6M003 | EQU | 728 | | | 0728 | | GEN | | | |
| | | | * | | | | | | | GEN | | | |
| 131 | | | | ORG | 201 | | | | 0201 | | | | |
| 132 | | | PHAS41 | BSS |)8J003,G | | 5 | 0201 | B 257 G | GEN | 1 | 257 | |
| 133 | | | | NOP | TO PATCH IN TRAPS FOR DEBUGGING | | 1 | 0206 | N | GEN | 1 | | |
| 134 | | |)0J003 | EQU | *&1 | | | 0207 | | GEN | | | |
| 135 | | | | LCA |)9J003,)6J003 | | 7 | 0207 | L 276 110 | GEN | 1 | 276 | 110 |
| 136 | | | | BCE |)1J003,)6K003,1 Q: LOADING FROM CARDS? | | 8 | 0214 | B 250 700 1 | GEN | 1 | 250 | 700 |
| 137 | | | | BCE |)1J003,)6L003&4,0 Q: LOADING FROM AUTOCODER TAPE? | | 8 | 0222 | B 250 708 0 | GEN | 1 | 250 | 708 |
| 138 | | | | RTW | 1,LOADAD READ THE BLOCK | | 8 | 0230 | L %U1 838 R | GEN | 1 | %U1 | 838 |
| 139 | | | | BER |)6M003 Q: TAPE ERROR? | | 5 | 0238 | B 728 L | GEN | 2 | 728 | |
| 140 | | | | CS | LOOP,)9R003 ENTER THE BLOCK | | 7 | 0243 | / 838 280 | GEN | 2 | 838 | 280 |
| 141 | | |)1J003 | CS |)6K003,)9R003 LOAD CARDS OR AUTOCODER TAPE | | 7 | 0250 | / 700 280 | GEN | 2 | 700 | 280 |
| 142 | | |)8J003 | SW |)9R003 | | 4 | 0257 | , 280 | GEN | 2 | 280 | |
| 143 | | | | MU | %T0,)8K003,W | | 8 | 0261 | M %T0 273 W | GEN | 2 | %T0 | 273 |
| 144 | | | | H |)0J003 | | 4 | 0269 | . 207 | GEN | 2 | 207 | |

| SEQ | PG | LIN | LABEL | OP | OPERANDS | SFX | CT | LOCN | INSTRUCTION | TYPE | CARD | A-ADDR | B-ADDR |
|-----|-----|-----|--------|------------|--|-----|----|------|-------------|-------|------|--------|--------|
| 145 | | |)8K003 | EQU | *&1 | | | 0273 | | GEN | | | |
| 146 | | |)9J003 | DCW | @GOTO@ PHASE ID | 4 | | 0276 | | GEN | 2 | | |
| 147 | | | | DCW | #1 | 1 | | 0277 | | GEN | 3 | | |
| 148 | | | | DC | @41@ PHASE NUMBER | 2 | | 0279 | | GEN | 3 | | |
| 149 | | |)9R003 | DCW | @}@ | 1 | | 0280 | | GEN | 3 | | |
| 150 | | | | XFR | PHAS41 | | | | B 201 | | 4 | 201 | |
| 151 | | | * | | | | | | | | | | |
| 152 | | | | ORG | BEGIN3 | | | | 0838 | | | | |
| 153 | | | LOADAD | EQU | *&1 LOAD ADDRESS | | | 0838 | | | | | |
| 154 | 838 | | LOOP | BCE | DONE,0&X1, | 8 | | 0838 | B 861 0 0 | | 5 | 861 | 000+1 |
| 155 | 846 | | | MCW | 0&X1,CODSEQ | 7 | | 0846 | M 0 0 943 | | 5 | 000+1 | 943 |
| 156 | 853 | | | BCE | GOTO,CODSEQ-3,G GOTO STATEMENT? | 8 | | 0853 | B 865 940 G | | 5 | 865 | 940 |
| 157 | 861 | | | DONE | B LOADNX | 4 | | 0861 | B 700 | | 5 | 700 | |
| 158 | | | * | | | | | | | | | | |
| 159 | 884 | | GOTO | LCA | 0&X1,0&X3 SEQNO, CODE, GMWM | 7 | | 0865 | L 0 0 0?0 | | 5 | 000+1 | 000+3 |
| 160 | 891 | | | SAR | X1 | 4 | | 0872 | Q 089 | | 5 | 089 | |
| 161 | 895 | | | C | 0&X3 | 4 | | 0876 | C 0?0 | | 6 | 000+3 | |
| 162 | 899 | | | SAR | X3 | 4 | | 0880 | Q 099 | | 6 | 099 | |
| 163 | 903 | | | LCA | 1&X3,2&X3 MOVE GMWM UP | 7 | | 0884 | L 0?1 0?2 | | 6 | 001+3 | 002+3 |
| 164 | 910 | | | SBR | X3 | 4 | | 0891 | H 099 | | 6 | 099 | |
| 165 | 914 | | | LCA | 0&X1,0&X3 MOVE LABEL UP | 7 | | 0895 | L 0 0 0?0 | | 6 | 000+1 | 000+3 |
| 166 | 921 | | | SAR | X1 | 4 | | 0902 | Q 089 | | 6 | 089 | |
| 167 | 925 | | | C | 0&X3 | 4 | | 0906 | C 0?0 | | 6 | 000+3 | |
| 168 | 929 | | | SAR | X3 | 4 | | 0910 | Q 099 | | 7 | 099 | |
| 169 | 933 | | | MCW | BRANCH,1&X3 REPLACE GMWM BY BRANCH | 7 | | 0914 | M 944 0?1 | | 7 | 944 | 001+3 |
| 170 | 940 | | | LCA | 1&X1 WITH THE GMWM BELOW IT | 4 | | 0921 | L 0 1 | | 7 | 001+1 | |
| 171 | 944 | | | SBR | X3 | 4 | | 0925 | H 099 | | 7 | 099 | |
| 172 | 948 | | | MZ | X2ZONE,4&X3 | 7 | | 0929 | Y 945 0?4 | | 7 | 945 | 004+3 |
| 173 | 955 | | | B | LOOP | 4 | | 0936 | B 838 | | 7 | 838 | |
| 174 | | | * | | | | | | | | | | |
| 175 | | | * DATA | | | | | | | | | | |
| 176 | | | * | | | | | | | | | | |
| 177 | 962 | | CODSEQ | DCW | #4 STATEMENT CODE AND SEQUENCE NUMBER | 4 | | 0943 | | | 7 | | |
| 178 | 973 | | BRANCH | B | | 1 | | 0944 | B | | 8 | | |
| 179 | 974 | | X2ZONE | DCW | @K@ | 1 | | 0945 | | | 8 | | |
| 180 | 975 | | GMWM | DCW | @}@ | 1 | | 0946 | | GMARK | 8 | | |
| 181 | | | | XFR | LOOP | | | | B 838 | | 9 | 838 | |
| 182 | | | CLRME | CLRA | LOOP,GMWM,C | | | | | MACRO | | | |
| | | | * | CLRA | CLRBOT,CLRTOP[,SS,HERE,GWMAD] | | | | | GEN | | | |
| | | | * | | | | | | | GEN | | | |
| | | | * | CLEAR CORE | AFTER A PHASE USING THE CLRTOP ADDRESS | | | | | GEN | | | |
| | | | * | | | | | | | GEN | | | |
| 183 | | | | ORG | 201 | | | | 0201 | | | | |
| | | | * | | | | | | | GEN | | | |
| | | | * | CLEAR DOWN | TO CLRBOT & X00 THE EASY WAY | | | | | GEN | | | |
| | | | * | | | | | | | GEN | | | |
| 184 | | | CLRME | EQU | *&1 | | | 0201 | | GEN | | | |
| 185 | | | | BSS | SNAPSH,C | 5 | | 0201 | B 333 C | GEN | 10 | 333 | |
| 186 | | |)0J004 | CS | GMWM CLEAR FROM CLRTOP | 4 | | 0206 | / 946 | GEN | 10 | 946 | |
| 187 | | | | SBR |)0J004&3 | 4 | | 0210 | H 209 | GEN | 10 | 209 | |

| SEQ | PG | LIN | LABEL | OP | OPERANDS | SFX | CT | LOCN | INSTRUCTION | TYPE | CARD | A-ADDR | B-ADDR |
|-----|----|-----|--------|-----|---|-----|----|------|-------------|------|------|--------|--------|
| 188 | | | | SBR |)0L004&6 | 4 | | 0214 | H 255 | GEN | 10 | 255 | |
| 189 | | | | C |)0J004&3,)0M004 DOWN TO CLRBOT & X00? | 7 | | 0218 | C 209 266 | GEN | 10 | 209 | 266 |
| 190 | | | | BU |)0J004 | 5 | | 0225 | B 206 / | GEN | 10 | 206 | |
| | | | | * | | | | | | GEN | | | |
| | | | | * | NOW CLEAR DOWN TO CLRBOT THE HARD WAY | | | | | GEN | | | |
| | | | | * | | | | | | GEN | | | |
| 191 | | |)0K004 | C |)0L004&6,)0N004 | 7 | | 0230 | C 255 269 | GEN | 10 | 255 | 269 |
| 192 | | | | BU |)0L004 | 5 | | 0237 | B 249 / | GEN | 11 | 249 | |
| 193 | | | | CS | LOADNX,)0Q004 LOAD THE NEXT BLOCK AT 1 | 7 | | 0242 | / 700 276 | GEN | 11 | 700 | 276 |
| 194 | | |)0L004 | LCA |)0P004,0-0 CLEAR WITH BLANK AND WORD MARK | 7 | | 0249 | L 270 000 | GEN | 11 | 270 | 000 |
| 195 | | | | SBR |)0L004&6 | 4 | | 0256 | H 255 | GEN | 11 | 255 | |
| 196 | | | | B |)0K004 | 4 | | 0260 | B 230 | GEN | 11 | 230 | |
| 197 | | |)0M004 | DSA |)0R004 CLRBOT & X00 - 1 | 3 | | 0266 | 899 | GEN | 11 | 899 | |
| 198 | | |)0N004 | DSA | LOOP CLRBOT | 3 | | 0269 | 838 | GEN | 11 | 838 | |
| 199 | | |)0P004 | DCW | #1 | 1 | | 0270 | | GEN | 12 | | |
| 200 | | | | DC | @CLRA @ IDENTIFY IN A DECK, TAPE, OR DUMP | 5 | | 0275 | | GEN | 12 | | |
| 201 | | |)0Q004 | DCW | @}@ | 1 | | 0276 | | GEN | 12 | | |
| 202 | | | | ORG | LOOP&X00 | | | | 0900 | | | | |
| 203 | | |)0R004 | EQU | * CLRBOT & X00 - 1 | | | 0899 | | GEN | | | |
| 204 | | | | XFR | CLRME | | | | B 201 | | 13 | 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 | 0276: 0 |)9R003 | 0280: 0 |
| BEGIN3 | 0838: 0 | BRANCH | 0944: 0 | CDOVLY | 0700: 0 | CLRME | 0201: 0 | CODSEQ | 0943: 0 | DONE | 0861: 0 |
| GMWM | 0946: 0 | GOTO | 0865: 0 | LOADAD | 0838: 0 | LOADNX | 0700: 0 | LOOP | 0838: 0 | PHAS41 | 0201: 0 |
| PHASLD | 0381: 0 | SNAPEX | 0564: 0 | SNAPSH | 0333: 0 | TOP3 | 2600: 0 | TPERR | 0728: 0 | TPREAD | 0704: 0 |
| X1 | 0089: 0 | X2ZONE | 0945: 0 | X3 | 0099: 0 | | | | | | |

UNREFERENCED SYMBOLS

CDOVLY PHASLD SNAPEX TOP3 TPERR TPREAD