| CLEAR STORAG CLEAR STORAG BOOTSTRAP | SE 1 SE 2 | ,0080 L0681 ,0080 | 15,02 16,10 15,02 | 2026,030037,044,049,053053N00000N00001026 5106,110117B101/I9I#071029C029056B026/B001/0991 2029,036040,047054,061068,072/061039 | ,001/001 ,0010 | 117I0? 011040 | | | 1 2 3 |
|---|--------------|-------------------------|-------------------------|--|-------------------|------------------|------------------|------|-------------|
| | | | | RAN COMPILER FORMAT LOADER PHASE 54A | | | | PAGE | 1 |
| SEQ PG LIN | LABEL | OP | OPER | ANDS | SFX CT | LOCN | INSTRUCTION | TYPE | CARD |
| 101 | | JOB | FORT | RAN COMPILER FORMAT LOADER PHASE 54A | | | | | |
| 102 | | CTL | | | | | | | |
| | * | | | | | | | | |
| 104 | * THIS | PHASE | SELE | CTS THE PROPER I/O ROUTINE AND LOADS IT INTO | | | | | |
| | | OBJECT | CORE | -STORAGE LOCATION. | | | | | |
| 100 | * | | | | | | | | |
| | | | | ROUTINE IS FIRST (54B), NORMAL FORMAT ROUTINE | | | | | |
| | | ECOND | (54C) | , A-CONVERSION FORMAT ROUTINE IS THIRD (54D). | | | | | |
| 109 | * | | | | | | | | |
| 110 | * STUF | F IN T | HE RE | SIDENT AREA | | | | | |
| 111 112 | DIIXCID | EOH | 110 | DUACE ID FOR CNARCHOT DUMPS | | 0110 | | | |
| 113 | PHASID | EQU | 333 | PHASE ID, FOR SNAPSHOT DUMPS CORE DUMP SNAPSHOT INTEGER MODULUS NUMBER OF DIGITS X FOR NO FORMAT, L FOR LIMITED FORMAT | | 0333 | | | |
| 114 | TMOD | EOII | 690 | INTEGER MODILIES NUMBER OF DIGITS | | 0690 | | | |
| 115 | FMTSW | EOH | 696 | X FOR NO FORMAT. I. FOR LIMITED FORMAT | | 0696 | | | |
| 116 | * | 20 | 0,50 | BLANK FOR ORDINARY, A FOR A CONVERSION | | 0050 | | | |
| | LOADNX | EOU | 700 | INTEGER MODULUS NUMBER OF DIGITS X FOR NO FORMAT, L FOR LIMITED FORMAT BLANK FOR ORDINARY, A FOR A CONVERSION LOAD NEXT OVERLAY CS AT START OF OVERLAY LOADER | | 0700 | | | |
| 118 | CLEARL | EQU | 707 | CS AT START OF OVERLAY LOADER | | 0707 | | | |
| 119 | CDOVLY | EQU | 769 | 1 IF RUNNING FROM CARDS, N IF FROM TAPE | | 0769 | | | |
| 120 | TPREAD | EQU | 780 | TAPE READ INSTRUCTION IN OVERLAY LOADER | | 0780 | | | |
| 121 | LOADXX | EQU | 793 | COAD NEXT OVERLAY CS AT START OF OVERLAY LOADER 1 IF RUNNING FROM CARDS, N IF FROM TAPE TAPE READ INSTRUCTION IN OVERLAY LOADER EXIT FROM OVERLAY LOADER BOTTOM OF CORE TO CLEAR IN OVERLAY LOADER | | 0793 | | | |
| 122 | CLRBOT | EQU | 833 | BOTTOM OF CORE TO CLEAR IN OVERLAY LOADER | | 0833 | | | |
| 123 | * | | | | | | | | |
| 124 | * RUNT | IME AD | DRESS | ES | | | | | |
| 125 | * | | | | | | | | |
| 126 | FMTBAS | EQU | 1697 | BASE ADDRESS OF LIMITED AND NORMAL | | 1697 | | | |
| 127 128 | FMTBAA | EQU | 4280 | BASE ADDRESS OF A-CONVERSION | | 4280 4616 | | | |
| 128 | AGM I CM | EQU | 2016 | GMWM AT END OF LIMITED BOUTINE | | 2015 | | | |
| 130 | NGM | EQU | 1269 | CMMM AT END OF NORMAL POLITINE | | 4269 | | | |
| 131 | NSWICH | EOH | 3138 | BASE ADDRESS OF LIMITED AND NORMAL BASE ADDRESS OF A-CONVERSION GMWM AT END OF A-CONVERSION GMWM AT END OF LIMITED ROUTINE GMWM AT END OF NORMAL ROUTINE SWITCH IN NORMAL ROUTINE | | 3138 | | | |
| 132 | * | 20 | 0100 | SWITCH IN NOTHING NOOTING | | 0100 | | | |
| 133 | | ORG | 934 | SWITCH IN NORMAL ROUTINE ,FMTBAS ,CDOVLY,N | | | 0934 | | |
| 134 934 | BEGINN | SW | GMWM | ,FMTBAS | 7 | 0934 | , S53 W97 | | 4 |
| 135 941 | | BCE | TAPE | ,CDOVLY,N | 8 | 0941 | B 59 769 N | | 4 |
| 130 | * | | | | | | | | |
| 137 | * LOAD | FORMA | T ROU | TINE FROM CARDS | | | | | |
| 138 | * | | | | | | | | |
| 139 949 | | BCE | CARD | L,FMTSW,L | 8 | 0949 | B 26 696 L | | 4 |
| 140 957 | SKIPI | R | + | SKIP LIMITED ROUTINE (54B) | 1 | 0957 | I D 070 060 D | | 4 |
| 141 958 142 966 | | BCE B | ^&5, | L,FMTSW,L SKIP LIMITED ROUTINE (54B) 68,B EX CARD? 1 X,FMTSW,X LOAD NORMAL ROUTINE (54C) RETURN HERE FROM NORMAL LOAD ,K01 | 8 | 0958 | D 9/U U68 B | | 4 |
| 142 966 | | BCE. | CVBD | Y FMTSW X | 4 Ω | 0900 | B 34 696 X | | 4 5 |
| 144 978 | | R | 40 | LOAD NORMAL ROUTINE (54C) | 4 | 0978 | 1 040 | | 5 |
| 145 982 | NRET | CW | NGM | RETURN HERE FROM NORMAL LOAD | 4 | 0982 |) 26Z | | 5 |
| 146 986 | | C | IMOD | ,K01 | 7 | 0986 | C 690 S39 | | 5 |
| 147 993 | | BU | CTES | TA | 5 | 0993 | B 05 / | | 5 |
| | | | | | | | | | |

| | | | | FORTRAN COMPILER FORMAT LOADER PHASE 54A | | | PAG | E 2 |
|-----|--------|---------------|---------|--|--------|------|----------------------------|----------|
| SEQ | PG LIN | LABEL | | OPERANDS | | | INSTRUCTION TYPE | CARD |
| 148 | 998 | | LCA | NOP,NSWICH CARDA,FMTSW,A DONE,68,B EX CARD? SKIP2 40 LOAD LIMITED ROUTINE (54B) LGM RETURN HERE FROM LIMITED LOAD CTESTA,68,B EX CARD? CARDX 40 LOAD A-CONVERSION ROUTINE (54D) AGM RETURN HERE FROM A-CONVERSION LOAD DONE | 7 | 0998 | L S40 A38 | 5 |
| 149 | 1 005 | CTESTA | BCE | CARDA, FMTSW, A | 8 | 1005 | B 47 696 A | 6 |
| 150 | 1 013 | SKIP2 | R | | 1 | 1013 | 1 | 6 |
| | 1 014 | | BCE | DONE, 68, B EX CARD? | 8 | 1014 | В /41 068 В | 6 |
| | 1 022 | | В | SKIP2 | 4 | 1022 | B 13 | 6 |
| | | CARDL LRET | R | 40 LOAD LIMITED ROUTINE (54B) | 4 | 1026 | 1 040 | 6 6 |
| | | CARDX | CW D | LGM RETURN HERE FROM LIMITED LOAD | 4 | 1030 |) !15 | 6 |
| | 1 034 | CARDA | BCE | CTESTA.68.B EX CARD? | 8 | 1034 | B 05 068 B | 7 |
| | 1 043 | | В | CARDX | 4 | 1043 | B 134 | 7 |
| | | CARDA | R | 40 LOAD A-CONVERSION ROUTINE (54D) | 4 | 1047 | 1 040 | 7 |
| 159 | 1 051 | ARET | CW | AGM RETURN HERE FROM A-CONVERSION LOAD | 4 | 1051 |) 61W | 7 |
| 160 | 1 055 | | В | DONE | 4 | 1055 | B /41 | 7 |
| 161 | | * | | AGM RETURN HERE FROM A-CONVERSION LOAD DONE T ROUTINE FROM TAPE TAPEL,FMTSW,L 1,GMWM SKIP LIMITED FORMAT ROUTINE TAPERR TAPEX,FMTSW,X 1,FMTBAS LOAD NORMAL FORMAT ROUTINE TAPERR IMOD,K01 *&8 NOP,NSWICH TAPEA,FMTSW,A 1,GMWM SKIP A-CONVERSION ROUTINE TAPERR SNAPSH,C CLEARL&3,GMWM REPL2,PHASID LOADNX 1,FMTBAS LOAD LIMITED ROUTINE TAPERR 1,GMWM SKIP NORMAL ROUTINE TAPERR 1,GMWM SKIP NORMAL ROUTINE TAPERR 1,FMTBAA LOAD A-CONVERSION ROUTINE TAPERR SKIPA 1,FMTBAA LOAD A-CONVERSION ROUTINE TAPERR DONE ROUTINE | | | | |
| 162 | | * LOAD | FORMA | T ROUTINE FROM TAPE | | | | |
| 163 | 1 050 | * | | | | 1050 | D /64 606 T | |
| 164 | 1 059 | IAPE | BCE | 1 CMMM CVID LIMITED FORMAT DOUTING | 8 | 1059 | B /64 696 L L %U1 S53 R | 7 8 |
| 166 | 1 007 | | RED | TADEDD | 0 5 | 1007 | | 8 |
| 167 | 1 080 | | BCE | TAPEX.FMTSW.X | 8 | 1080 | B /77 696 X | 8 |
| 168 | 1 088 | | RTW | 1,FMTBAS LOAD NORMAL FORMAT ROUTINE | 8 | 1088 | | 8 |
| 169 | 1 096 | | BER | TAPERR | 5 | 1096 | B S11 L | 8 |
| 170 | 1 101 | | С | IMOD, K01 | 7 | 1101 | C 690 S39 | 9 |
| 171 | 1 108 | | BU | *&8 | 5 | | B /20 / | 9 |
| 172 | 1 113 | | LCA | NOP, NSWICH | 7 | | L S40 A38 | 9 |
| 173 | 1 120 | | BCE | TAPEA, FMTSW, A | 8 | | B /94 696 A | 9 |
| 174 | 1 128 | SKIPA | RTW | I,GMWM SKIP A-CONVERSION ROUTINE | 8 5 | | L %U1 S53 R B S11 L | 9 10 |
| 176 | 1 1/1 | DONE | BEK | SNADSH C | 5 | | В 333 С | 10 |
| 177 | 1 146 | DONE | SBR | CLEARL&3.GMWM | 7 | | H 710 S53 | 10 |
| 178 | 1 153 | | LCA | REPL2, PHASID | 7 | | L S49 110 | 10 |
| 179 | 1 160 | | В | LOADNX | 4 | | в 700 | 10 |
| 180 | 1 164 | TAPEL | RTW | 1,FMTBAS LOAD LIMITED ROUTINE | 8 | 1164 | L %U1 W97 R | 10 |
| 181 | 1 172 | | BER | TAPERR | 5 | | B S11 L | 11 |
| 182 | 1 177 | TAPEX | RTW | 1,GMWM SKIP NORMAL ROUTINE | 8 | | L %U1 S53 R | 11 |
| 183 | 1 185 | | BER | TAPERR | 5 | | B S11 L | 11 |
| 184 | 1 190 | ת חוד א | В | SKIPA | 4 8 | 1190 | B /28 L %U1 28 R | 11 11 |
| 186 | 1 202 | IAPEA | RED | TADERR | 5 | | B S11 L | 11 |
| 187 | 1 202 | | B | DONE | 4 | | B /41 | 11 |
| 188 | 1 20, | * | _ | 501.2 | - | 120, | 2 / 11 | |
| 189 | | * TAPE | ERROR | ROUTINE | | | | |
| 190 | | * | | | | | | |
| | | TAPERR | SBR | TAPERX&3 | | | H S37 | 12 |
| | 1 215 | | MA | AM13, TAPERX&3 BACK UP EXIT TO READ INSTRUCTION | | | # S52 S37 | 12 |
| | 1 222 | | BSP | 1 | | | U %U1 B | 12 |
| | 1 227 | TAPERX | H | 3333,3333 | | 1227 | . C33 C33 B 000 | 12 12 |
| 195 | 1 234 | TAPERX | Þ | U | 4 | 1234 | D UUU | 12 |
| 197 | | * DATA | | | | | | |
| | | 211111 | | | | | | |

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| SEO PG LIN | LABEL | OP | OPERANDS | SFX CT | LOCN | INSTRUCTION | TYPE | CARD |
| 198 | * | | | | | | | |
| 199 1 239 | K01 | DCW | 01 | 2 | 1239 | | | 12 |
| 200 1 240 | NOP | NOP | | 1 | 1240 | N | | 12 |
| 201 1 249 | REPL2 | DCW | @REPLACE 2@ | 9 | 1249 | | | 13 |
| 202 1 252 | AM13 | DSA | 15987 -13 AS AN ADDRESS | 3 | 1252 | I8G | | 13 |
| 203 1 253 | GMWM | DCW | @ } @ | 1 | 1253 | | GMARK | 13 |
| 204 | | EX | BEGINN | | | B 934 | | 14 |
| 205 | | END | | | | / 000 080 | | |

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| | | | FORTRAN | COMPILE | R FORM | AT LOADE | R PHAS | E 54A | | | | PAGE | 4 |
| SYMBOL AGM | ADDRESS | SYMBOL AM13 | ADDRESS | SYMBOL ARET | ADDRESS | SYMBOL BEGINN | ADDRESS 934 | SYMBOL CARDA | ADDRESS | SYMBOL CARDL | ADDRESS | SYMBOL CARDX | ADDRESS 1034 |

| SYMBOL | ADDRESS |
|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
| AGM | 4616 | AM13 | 1252 | ARET | 1051 | BEGINN | 934 | CARDA | 1047 | CARDL | 1026 | CARDX | 1034 |
| CDOVLY | 769 | CLEARL | 707 | CLRBOT | 833 | CTESTA | 1005 | DONE | 1141 | FMTBAA | 4280 | FMTBAS | 1697 |
| FMTSW | 696 | GMWM | 1253 | IMOD | 690 | K01 | 1239 | LGM | 2015 | LOADNX | 700 | LOADXX | 793 |
| LRET | 1030 | NGM | 4269 | NOP | 1240 | NRET | 982 | NSWICH | 3138 | PHASID | 110 | REPL2 | 1249 |
| SKIP1 | 957 | SKIP2 | 1013 | SKIPA | 1128 | SNAPSH | 333 | TAPE | 1059 | TAPEA | 1194 | TAPEL | 1164 |
| TAPERR | 1211 | TAPERX | 1234 | TAPEX | 1177 | TPREAD | 780 | | | | | | |