```
BOOTSTRAP FOR CLEAR ,008015,022026,030040/019,001L020100   ,047054,061068,072072)0810811022                    1
CLEAR OR BOOTSTRAP  ,008047/047046       /000H025B022100  4/061046,054061,068072,0010401040                    2

                          POWERS OF TWO                                                POW2                PAGE    1

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

 101                JOB   POWERS OF TWO
 102         START  ZA    TWO,POWER                                                     7  0333  ? 354 535             3
 103         LOOP   MCS   POWER,332                                                     7  0340  Z 535 332             3
 104                MCS   NUMBER,203                                                    7  0347  Z 406 203             3
 105         TWO    W                                                                   1  0354  2                     3
 106                C     NUMBER,LINES                                                  7  0355  C 406 538             3
 107                BU    NOSKIP                                                        5  0362  B 376 /               3
 108                CC    1                                                             2  0367  F 1                   3
 109                A     @060@,LINES                                                   7  0369  A 541 538             4
 110         NOSKIP A     *-6,NUMBER                                                    7  0376  A 376 406             4
 111                A     POWER,POWER                                                   7  0383  A 535 535             4
 112                BCE   LOOP,TEST,0                                                   8  0390  B 340 407 0           4
 113                CC    1                                                             2  0398  F 1                   4
 114         DONE   H     DONE                                                          4  0400  . 400                 4
 115         NUMBER DCW   001                                                           3  0406                        4
 116                DA    1X129                                                            0407   0535                 4
 117         TEST         1                                                                0407              SBFLD
 118         POWER        129                                                              0535              SBFLD
 119         LINES  DCW   060                                                           3  0538                        5
                    DCW   @060@                                                         3  0541              LIT       5
 120                END   START                                                                  / 333 080
```

```
SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS
DONE      400    LINES     538    LOOP      340    NOSKIP    376    NUMBER    406    POWER     535    START     333
TEST      407    TWO       354
BOOTSTRAP FOR CLEAR ,008015,022026,030040/019,001L020100   ,047054,061068,072072)0810811022                       1
CLEAR OR BOOTSTRAP  ,008047/047046       /000H025B022100  4/061046,054061,068072,0010401040                       2

                                POWERS OF TWO                                                POW2A              PAGE    1

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

 101                JOB   POWERS OF TWO
 102                ORG   332                                                                     0332
 103         START  MCW   TWO,332                                                          7  0332  M 359 332            3
 104                CS                                                                     1  0339  /                    3
 105                CS                                                                     1  0340  /                    3
 106         LOOP   SW    201,204                                                          7  0341  , 201 204            3
 107                A     ONE,203                                                          7  0348  A 380 203            3
 108                MCS   203                                                              4  0355  Z 203                3
 109         TWO    W                                                                      1  0359  2                    3
 110                A     332                                                              4  0360  A 332                4
 111                MCS   332                                                              4  0364  Z 332                4
 112                BCE   LOOP,204,                                                        8  0368  B 341 204            4
 113         DONE   H     DONE                                                             4  0376  . 376                4
 114         ONE    DCW   1                                                                1  0380                       4
 115                END   START                                                                     / 332 080
```

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SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS
DONE      376    LOOP      341    ONE       380    START     332    TWO       359
BOOTSTRAP FOR CLEAR ,008015,022026,030040/019,001L020100   ,047054,061068,072072)0810811022                       1
CLEAR OR BOOTSTRAP  ,008047/047046       /000H025B022100  4/061046,054061,068072,0010401040                       2

                          POWERS OF TWO                                                   POW2B              PAGE    1

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

 101                JOB   POWERS OF TWO
 102                ORG   328                                                                    0328
 103                DCW   @2   1@                                                       5  0332                        3
 104         START  CS    327                                                           4  0333  / 327                 3
 105                CS                                                                  1  0337  /                     3
 106         LOOP   W                                                                   1  0338  2                     3
 107                SW    200                                                           4  0339  , 200                 3
 108                A     328                                                           4  0343  A 328                 3
 109                MCS   328                                                           4  0347  Z 328                 3
 110                SW               AT 199 AND 329                                     1  0351  ,                     4
 111                A     *-6,332                                                       7  0352  A 352 332             4
 112                MCS   332                                                           4  0359  Z 332                 4
 113                BCE   LOOP,200,                                                     8  0363  B 338 200             4
 114                H                                                                   1  0371  .                     4
 115                DCW   #1                                                            1  0372                        4
 116                END   START                                                                  / 333 080
```

```
SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS
LOOP      338    START     333
BOOTSTRAP FOR CLEAR ,008015,022026,030040/019,001L020100   ,047054,061068,072072)0810811022                       1
CLEAR OR BOOTSTRAP  ,008047/047046       /000H025B022100  4/061046,054061,068072,0010401040                       2
```



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

 101                JOB   POWERS OF TWO
 102                ORG   022                                                                  0022
 103         START  MCW   TWO,332                                                    7  0022  M 047 332             3
 104                CS                                                               1  0029  /                     3
 105                CS                                                               1  0030  /                     3
 106         LOOP   SW    201                                                        4  0031  , 201                 3
 107                A     ONE,203                                                    7  0035  A 068 203             3
 108                MCS   203                                                        4  0042  Z 203                 3
 109                SW              AT 200 AND 204                                   1  0046  ,                     3
 110         TWO    W                                                                1  0047  2                     4
 111                A     332                                                        4  0048  A 332                 4
 112                MCS   332                                                        4  0052  Z 332                 4
 113                BCE   LOOP,204,                                                  8  0056  B 031 204             4
 114         DONE   H     DONE                                                       4  0064  . 064                 4
 115         ONE    DCW   1                                                          1  0068                        4
 116                END   START                                                             / 022 080
```

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SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS  SYMBOL  ADDRESS
DONE       64    LOOP       31    ONE        68    START      22    TWO        47
BOOTSTRAP FOR CLEAR ,008015,022026,030040/019,001L020100   ,047054,061068,072072)0810811022                      1
CLEAR OR BOOTSTRAP  ,008047/047046       /000H025B022100  4/061046,054061,068072,0010401040                      2

                          POWERS OF TWO                                                   POW2D              PAGE    1

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

 101                JOB   POWERS OF TWO
 102                ORG   022                                                                     0022
 103         START  LCA   INIT,332   INITIAL VALUES                                     7  0022  L 069 332             3
 104                CS               CLEAR THE                                          1  0029  /                     3
 105                CS                 WORK/PRINT AREA                                  1  0030  /                     3
 106         LOOP   W                                                                   1  0031  2                     3
 107                SW    200                                                           4  0032  , 200                 3
 108                A     328        DOUBLE THE NUMBER                                  4  0036  A 328                 3
 109                MCS   328          AND STRIP LEADING ZEROS                          4  0040  Z 328                 3
 110                SW               AT 199 AND 329                                     1  0044  ,                     4
 111                A     *-6,332    INCREMENT THE EXPONENT                             7  0045  A 045 332             4
 112                MCS   332          AND STRIP LEADING ZEROS                          4  0052  Z 332                 4
 113                BCE   LOOP,200,  CONTINUE IF NOT OVERFLOWED                         8  0056  B 031 200             4
 114                H                                                                   1  0064  .                     4
 115          INIT  DCW   @2   1@                                                       5  0069                        4
 116                END   START                                                                  / 022 080
```

SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS	SYMBOL	ADDRESS
INIT	69	LOOP	31	START	22								