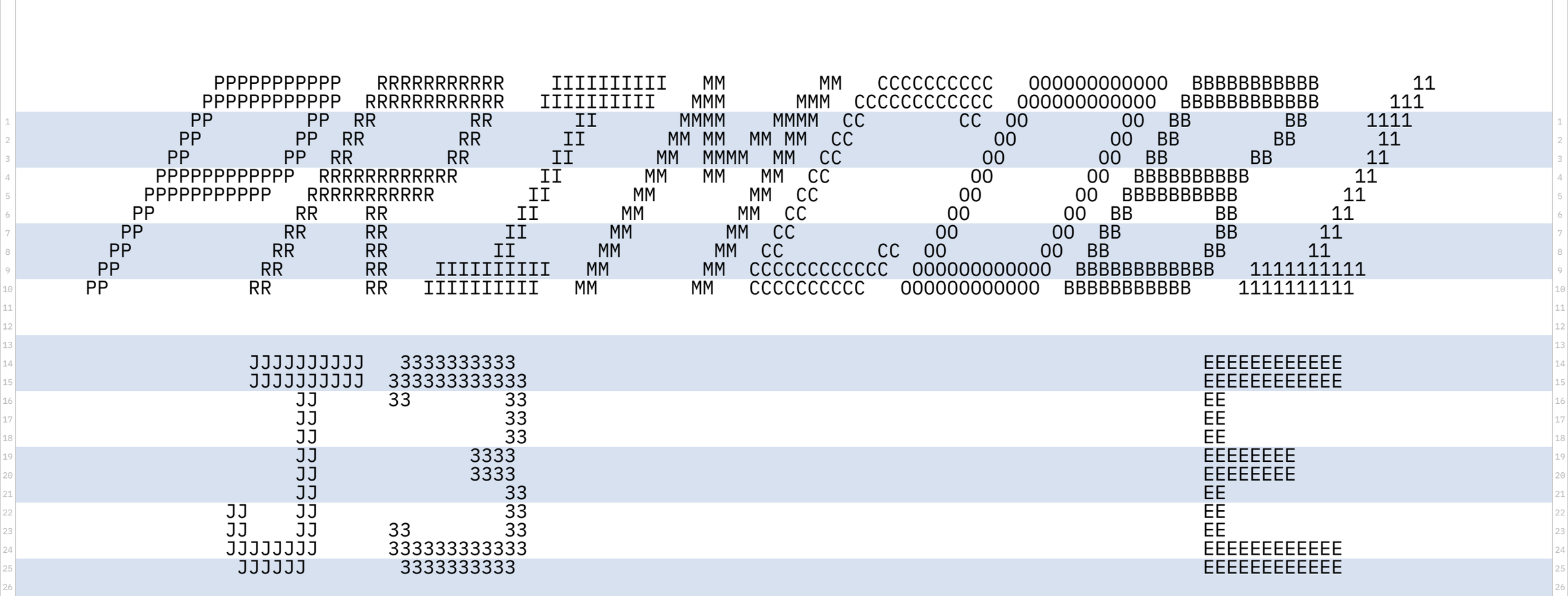

PPPPPPPPPPP RRRRRRRRRRR IIIIIIIIII MM MM CCCCCCCCCC OOOOOOOOOOO BBBBBBBBBB 11
PPPPPPPPPPPP RRRRRRRRRRRR IIIIIIIIII MMM MMM CCCCCCCCCCCC OOOOOOOOOOO BBBBBBBBBBB 111
PP PP RR RR II MMMM MMMM CC CC OO OO BB BB 1111
PP PP RR RR II MM MM MM MM CC OO OO BB BB 11
PP PP RR RR II MM MMMM MM CC OO OO BB BB 11
PPPPPPPPPPPP RRRRRRRRRRRR II MM MM MM CC OO OO BBBBBBBBB 11
PPPPPPPPPPP RRRRRRRRRRR II MM MM CC OO OO BBBBBBBBB 11
PP RR RR II MM MM CC OO OO BB BB 11
PP RR RR II MM MM CC OO OO BB BB 11
PP RR RR II MM MM CC CC OO OO BB BB 11
PP RR RR IIIIIIIIII MM MM CCCCCCCCCCCC OOOOOOOOOOO BBBBBBBBBBB 1111111111
PP RR RR IIIIIIIIII MM MM CCCCCCCCCC OOOOOOOOOOO BBBBBBBBBB 1111111111
JJJJJJJJJJ 3333333333 EEEEEEEEEEE
JJJJJJJJJJ 333333333333 EEEEEEEEEEE
JJ 33 33 EE
JJ 33 EE
JJ 33 EE
JJ 3333 EEEEEEEE
JJ 3333 EEEEEEEE
JJ 33 EE
JJ JJ 33 EE
JJ JJ 33 33 EE
JJJJJJJ 333333333333 EEEEEEEEEEE
JJJJJJ 3333333333 EEEEEEEEEEE
****E START JOB 3 PRIMCOB1 Eratosthenes Sieve ROOM 2.44.27 AM 20 SEP 26 PRINTER4 SYS PI5B JOB 3 START E****
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J E S 2 J O B L O G

```
 2.44.27 JOB    3  $HASP373 PRIMCOB1 STARTED - INIT  1 - CLASS A - SYS PI5B
 2.44.27 JOB    3  IEF403I PRIMCOB1 - STARTED - TIME=02.44.27
 2.44.27 JOB    3  IEFACTRT - Stepname  Procstep  Program   Retcode
 2.44.27 JOB    3  PRIMCOB1   PRIMES    COB       IKFCBL00  RC= 0000
 2.44.27 JOB    3  PRIMCOB1   PRIMES    GO        LOADER    RC= 0000
 2.44.27 JOB    3  IEF404I PRIMCOB1 - ENDED - TIME=02.44.27
 2.44.27 JOB    3  $HASP395 PRIMCOB1 ENDED

------ JES2 JOB STATISTICS ------

 20 SEP 26 JOB EXECUTION DATE

       168 CARDS READ

       299 SYSOUT PRINT RECORDS

         0 SYSOUT PUNCH RECORDS

      0.00 MINUTES EXECUTION TIME
```

```
1     //PRIMCOB1 JOB (COBOL),                                          JOB    3
      //             'Eratosthenes Sieve',
      //             CLASS=A,
      //             MSGCLASS=E,
      //             REGION=8M,TIME=1440,
      //             MSGLEVEL=(1,1),
      //            USER=SCOTT,PASSWORD=        GENERATED BY IKJEFF10
      ***************************************************************
      ***
      *** Name: SYS2.JCLLIB(PRIMCOB1)
      ***
      *** Desc: Sieve of Eratosthenes programmed in COBOL.
      ***       All prime numbers up to the value entered via
      ***       //GO.SYSIN DD are computed. Due to a COBOL
      ***       implementation limitation a maximum limit
      ***       of 32767 can be entered.
      ***
      ***************************************************************
2     //PRIMES   EXEC COBUCG,
      //         PARM.COB='FLAGW,LOAD,SUPMAP,SIZE=2048K,BUF=1024K'
3     XXCOBUCG PROC SOUT='*'                                          00000100
4     XXCOB EXEC PGM=IKFCBL00,                                        00000200
      XX         PARM='LOAD,SIZE=2048K,BUF=1024K'                     00000300
5     XXSYSPRINT DD SYSOUT=&SOUT                                      00000400
6     XXSYSUT1 DD UNIT=SYSDA,SPACE=(460,(700,100))                    00000500
7     XXSYSUT2 DD UNIT=SYSDA,SPACE=(460,(700,100))                    00000600
8     XXSYSUT3 DD UNIT=SYSDA,SPACE=(460,(700,100))                    00000700
9     XXSYSUT4 DD UNIT=SYSDA,SPACE=(460,(700,100))                    00000800
10    XXSYSLIN DD DSNAME=&LOADSET,DISP=(MOD,PASS),                    00000900
      XX             UNIT=SYSDA,SPACE=(80,(500,100))                  00001000
11    //COB.SYSPUNCH DD DUMMY
12    //COB.SYSIN    DD *
13    //COB.SYSLIB   DD DSNAME=SYS1.COBLIB,DISP=SHR
14    XXGO EXEC PGM=LOADER,PARM='MAP,LET',COND=(5,LT,COB)             00001100
15    XXSYSLIN DD DSNAME=*.COB.SYSLIN,DISP=(OLD,DELETE)               00001200
16    XXSYSLOUT DD SYSOUT=&SOUT                                       00001300
17    XXSYSLIB DD DSNAME=SYS1.COBLIB,DISP=SHR                         00001400
18    //GO.SYSOUT   DD SYSOUT=*,DCB=(RECFM=FBA,LRECL=161,BLKSIZE=16100)
19    //GO.SYSIN    DD *
```

```
 STMT NO. MESSAGE
-
    5     IEF653I SUBSTITUTION JCL - SYSOUT=*
   16     IEF653I SUBSTITUTION JCL - SYSOUT=*
IEF236I ALLOC. FOR PRIMCOB1 COB PRIMES
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I 293  ALLOCATED TO SYSUT1
IEF237I 290  ALLOCATED TO SYSUT2
IEF237I 291  ALLOCATED TO SYSUT3
IEF237I 292  ALLOCATED TO SYSUT4
IEF237I 291  ALLOCATED TO SYSLIN
IEF237I DMY  ALLOCATED TO SYSPUNCH
IEF237I JES2 ALLOCATED TO SYSIN
IEF237I 390  ALLOCATED TO SYSLIB
IEF142I PRIMCOB1 COB PRIMES - STEP WAS EXECUTED - COND CODE 0000
IEF285I   JES2.JOB00003.SO0103                     SYSOUT
IEF285I   SYS26263.T024427.RA000.PRIMCOB1.R0000001     DELETED       *--------6
IEF285I   VOL SER NOS= WORK04.
IEF285I   SYS26263.T024427.RA000.PRIMCOB1.R0000002     DELETED       *--------6
IEF285I   VOL SER NOS= WORK01.
IEF285I   SYS26263.T024427.RA000.PRIMCOB1.R0000003     DELETED       *--------9
IEF285I   VOL SER NOS= WORK02.
IEF285I   SYS26263.T024427.RA000.PRIMCOB1.R0000004     DELETED       *--------3
IEF285I   VOL SER NOS= WORK03.
IEF285I   SYS26263.T024427.RA000.PRIMCOB1.LOADSET      PASSED        *-------71
IEF285I   VOL SER NOS= WORK02.
IEF285I   JES2.JOB00003.SI0101                     SYSIN
IEF285I   SYS1.COBLIB                              KEPT          *--------0
IEF285I   VOL SER NOS= TK5RES.
IEF373I STEP /COB     / START 26263.0244
IEF374I STEP /COB     / STOP  26263.0244 CPU    0MIN 00.09SEC SRB    0MIN 00.02SEC VIRT  2076K SYS   216K
*-------------------------------------------------------------------------------------------------------------------------------*
*     1. Jobstep of job: PRIMCOB1    Stepname: COB         Program name: IKFCBL00   Executed on 20.09.26 from 02.44.27 to 02.44.27 *
*         elapsed time  00:00:00,26                   CPU-Identifier:  PI5B          Page-in:      0                            *
*             CPU time  00:00:00,11              Virtual Storage used:   2076K        Page-out:     0                            *
*           corr. CPU:  00:00:00,11   CPU time has been corrected by  1 / 1,0  multiplier                                       *
*                                                                                                                               *
*     I/O Operation                                                                                                             *
*     Number of records read via DD * or DD DATA:    140                                                                        *
*     DMY.......0 293.......6 290.......6 291.......9 292.......3 291......71 DMY.......0 DMY.......0 390.......0              *
*                                                                                                                               *
*                                        Charge for step (w/o SYSOUT):          0,18                                          *
*-------------------------------------------------------------------------------------------------------------------------------*
IEF236I ALLOC. FOR PRIMCOB1 GO PRIMES
IEF237I 291  ALLOCATED TO SYSLIN
IEF237I JES2 ALLOCATED TO SYSLOUT
IEF237I 390  ALLOCATED TO SYSLIB
IEF237I JES2 ALLOCATED TO SYSOUT
IEF237I JES2 ALLOCATED TO SYSIN
IEF142I PRIMCOB1 GO PRIMES - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS26263.T024427.RA000.PRIMCOB1.LOADSET      DELETED       *-------72
IEF285I   VOL SER NOS= WORK02.
IEF285I   JES2.JOB00003.SO0104                     SYSOUT
IEF285I   SYS1.COBLIB                              KEPT          *-------29
IEF285I   VOL SER NOS= TK5RES.
IEF285I   JES2.JOB00003.SO0105                     SYSOUT
IEF285I   JES2.JOB00003.SI0102                     SYSIN
IEF373I STEP /GO      / START 26263.0244
IEF374I STEP /GO      / STOP  26263.0244 CPU    0MIN 00.02SEC SRB    0MIN 00.01SEC VIRT   332K SYS   208K
*-------------------------------------------------------------------------------------------------------------------------------*
*     2. Jobstep of job: PRIMCOB1    Stepname: GO          Program name: LOADER     Executed on 20.09.26 from 02.44.27 to 02.44.27 *
*         elapsed time  00:00:00,06                   CPU-Identifier:  PI5B          Page-in:      0                            *
```

```
*     Number of records read via DD * or DD DATA:      1                                                    *
*     291......72 DMY.......0 390......29 DMY.......0 DMY.......0                                           *
*                                                                                                           *
*                                        Charge for step (w/o SYSOUT):          0,05                      *
*************************************************************************************************************
IEF375I  JOB /PRIMCOB1/ START 26263.0244
IEF376I  JOB /PRIMCOB1/ STOP  26263.0244 CPU    0MIN 00.11SEC SRB    0MIN 00.03SEC
```

```
00001      10 * ////////////////////////////////////////////////////        PRIME
00002      20 * // Name: Peter M. Maurer                                     PRIME
00003      30 * // Program: Sieve of Eratosthenes                           PRIME
00004      40 * // Due: Never                                               PRIME
00005      50 * // Language: COBOL                                          PRIME
00006      60 * //                                                          PRIME
00007      70 * // Changes:                                                 PRIME
00008      80 * // - Juergen Winkelmann, 2014/10/25, o adaption to IBM OS COBOL  PRIME
00009      90 * //                                   o read limit from SYSIN    PRIME
00010     100 * //                                   o n**2 (sqrt) shortcut     PRIME
00011     110 * //                                   o skip even numbers        PRIME
00012     120 * //                                   o compact output format    PRIME
00013     130 * //                                   o 32767 prime flags        PRIME
00014     140 * ////////////////////////////////////////////////////////////        PRIME
00015     150 ***                                                            PRIME
00016     160 ***                                                            PRIME
00017     170 ***                                                            PRIME
00018     180  IDENTIFICATION DIVISION.                                      PRIME
00019     190  PROGRAM-ID.  'PRIMES'.                                        PRIME
00020     200 ***                                                            PRIME
00021     210 ***                                                            PRIME
00022     220 ***                                                            PRIME
00023     230  ENVIRONMENT DIVISION.                                         PRIME
00024     240 **                                                             PRIME
00025     250 **                                                             PRIME
00026     260  CONFIGURATION SECTION.                                        PRIME
00027     270  SOURCE-COMPUTER.  IBM-360.                                    PRIME
00028     280  OBJECT-COMPUTER.  IBM-360.                                    PRIME
00029     290 **                                                             PRIME
00030     300 **                                                             PRIME
00031     310  INPUT-OUTPUT SECTION.                                         PRIME
00032     320  FILE-CONTROL.                                                 PRIME
00033     330      SELECT PRIMES-SYSIN                                       PRIME
00034     340         ASSIGN TO UT-S-SYSIN.                                  PRIME
00035     350 ***                                                            PRIME
00036     360 ***                                                            PRIME
00037     370 ***                                                            PRIME
00038     380  DATA DIVISION.                                                PRIME
00039     390 **                                                             PRIME
00040     400 **                                                             PRIME
00041     410  FILE SECTION.                                                 PRIME
00042     420  FD  PRIMES-SYSIN                                              PRIME
00043     430      RECORDING MODE IS F                                       PRIME
00044     440      RECORD CONTAINS 80 CHARACTERS                             PRIME
00045     450      BLOCK  CONTAINS  1 RECORDS                                PRIME
00046     460      LABEL RECORDS ARE OMITTED                                 PRIME
00047     470      DATA RECORD IS PRIMES-SYSIN-RECORD.                       PRIME
00048     480  01  PRIMES-SYSIN-RECORD.                                      PRIME
00049     490   02 PRIMES-SYSIN-NUMBER PIC 99999999 OCCURS 10.              PRIME
00050     500 **                                                             PRIME
00051     510 **                                                             PRIME
00052     520  WORKING-STORAGE SECTION.                                      PRIME
00053     530      77 I PIC 99999999 COMP VALUE 1.                           PRIME
00054     540      77 J PIC 99999999 COMP.                                   PRIME
```

```
00055     550      77 K PIC 99999999 COMP VALUE 1.                          PRIME
00056     560      77 N PIC 99999999 COMP.                                  PRIME
00057     570      77 N-2 PIC 99999999 COMP.                                PRIME
00058     580      77 SQRTN PIC 99999999 COMP.                              PRIME
00059     590      77 PRODUCT PIC 99999999 COMP.                            PRIME
00060     600      01 BLANK-LINE PIC X(160).                                PRIME
00061     610      01 OUT-INTEGER.                                          PRIME
00062     620       02 SHOWIT PIC ZZZZZZZZ OCCURS 20.                       PRIME
00063     630      01 OUT REDEFINES OUT-INTEGER.                            PRIME
00064     640       02 OUT-LINE PIC X(160).                                 PRIME
00065     650      01 PRIME-FLAGS.                                          PRIME
00066     660       02 ISPRIME PIC 9 OCCURS 32767.                          PRIME
00067     670 ***                                                           PRIME
00068     680 ***                                                           PRIME
00069     690 ***                                                           PRIME
00070     700  PROCEDURE DIVISION.                                         PRIME
00071     710 **                                                            PRIME
00072     720 **                                                            PRIME
00073     730  MAIN-PART.                                                   PRIME
00074     740      OPEN INPUT PRIMES-SYSIN.                                 PRIME
00075     750      READ PRIMES-SYSIN AT END DISPLAY '** EOF on SYSIN **'.   PRIME
00076     760      MOVE PRIMES-SYSIN-NUMBER (1) TO N.                       PRIME
00077     770      CLOSE PRIMES-SYSIN.                                      PRIME
00078     780      SUBTRACT 2 FROM N GIVING N-2.                            PRIME
00079     790 *                                                             PRIME
00080     800      PERFORM NEXT-SQUARE UNTIL SQRTN GREATER N.               PRIME
00081     810      MOVE I TO SQRTN.                                         PRIME
00082     820 *                                                             PRIME
00083     830      MOVE 3 TO I.                                             PRIME
00084     840      PERFORM INIT-1 UNTIL I GREATER N.                        PRIME
00085     850 *                                                             PRIME
00086     860      MOVE 3 TO I.                                             PRIME
00087     870      PERFORM CHECK-NUMBER UNTIL I GREATER SQRTN OR EQUAL SQRTN.PRIME
00088     880 *                                                             PRIME
00089     890      MOVE 3 TO I.                                             PRIME
00090     900      MOVE 2 TO J.                                             PRIME
00091     910      MOVE J TO SHOWIT (K).                                    PRIME
00092     920      PERFORM PRINT UNTIL I GREATER N.                         PRIME
00093     930 *                                                             PRIME
00094     940      MOVE K TO SHOWIT (1).                                    PRIME
00095     950      MOVE N TO SHOWIT (2).                                    PRIME
00096     960      DISPLAY ' '.                                             PRIME
00097     970      DISPLAY SHOWIT (1), ' primes up to ', SHOWIT (2), ' found.'.PRIME
00098     980      STOP RUN.                                                PRIME
00099     990 **                                                            PRIME
00100    1000 **                                                            PRIME
00101    1010  INIT-1.                                                     PRIME
00102    1020      MOVE 1 TO ISPRIME (I).                                   PRIME
00103    1030      ADD 2 TO I.                                              PRIME
00104    1040 **                                                            PRIME
00105    1050 **                                                            PRIME
00106    1060  CHECK-NUMBER.                                               PRIME
00107    1070      PERFORM ADVANCE UNTIL I GREATER THAN SQRTN OR EQUAL TO SQRT PRIME
00108    1080 -     N OR ISPRIME (I) EQUAL TO 1.                           PRIME
00109    1090      IF ISPRIME (I) EQUAL TO 1                                PRIME
00110    1100          ADD I I GIVING J                                     PRIME
00111    1110          MULTIPLY I BY I GIVING PRODUCT                       PRIME
```

```
00112    1120           PERFORM CROSS-OUT UNTIL PRODUCT GREATER THAN N.          PRIME
00113    1130       ADD 2 TO I.                                                  PRIME
00114    1140 **                                                                 PRIME
00115    1150 **                                                                 PRIME
00116    1160  ADVANCE.                                                          PRIME
00117    1170       ADD 2 TO I.                                                  PRIME
00118    1180 **                                                                 PRIME
00119    1190 **                                                                 PRIME
00120    1200  CROSS-OUT.                                                        PRIME
00121    1210       MOVE 0 TO ISPRIME (PRODUCT).                                 PRIME
00122    1220       ADD J TO PRODUCT.                                            PRIME
00123    1230 **                                                                 PRIME
00124    1240 **                                                                 PRIME
00125    1250  NEXT-SQUARE.                                                      PRIME
00126    1260       ADD 1 TO I.                                                  PRIME
00127    1270       MULTIPLY I BY I GIVING SQRTN.                                PRIME
00128    1280 **                                                                 PRIME
00129    1290 **                                                                 PRIME
00130    1300  PRINT.                                                            PRIME
00131    1310       IF ISPRIME (I) EQUAL TO 1                                    PRIME
00132    1320           MOVE I TO SHOWIT (J)                                     PRIME
00133    1330           ADD 1 TO K                                               PRIME
00134    1340           ADD 1 TO J                                               PRIME
00135    1350           IF J GREATER 20                                          PRIME
00136    1360               DISPLAY OUT-LINE                                     PRIME
00137    1370               MOVE BLANK-LINE TO OUT-LINE                          PRIME
00138    1380               MOVE 1 TO J.                                         PRIME
00139    1390       IF I GREATER N-2 AND J NOT EQUAL 1 DISPLAY OUT-LINE.         PRIME
00140    1400       ADD 2 TO I.                                                  PRIME
```

```
*STATISTICS*     SOURCE RECORDS =   140     DATA DIVISION STATEMENTS =    17     PROCEDURE DIVISION STATEMENTS =    45
*OPTIONS IN EFFECT*     SIZE = 2097152  BUF = 1048576  LINECNT = 57  SPACE1, FLAGW,   SEQ,   SOURCE
*OPTIONS IN EFFECT*     NODMAP, NOPMAP, NOCLIST,   SUPMAP, NOXREF,   LOAD, NODECK, APOST, NOTRUNC, NOLIB, NOVERB
*OPTIONS IN EFFECT*       ZWB
```

VS LOADER

```
OPTIONS USED - PRINT,MAP,LET,CALL,RES,NOTERM,SIZE=307200,NAME=**GO

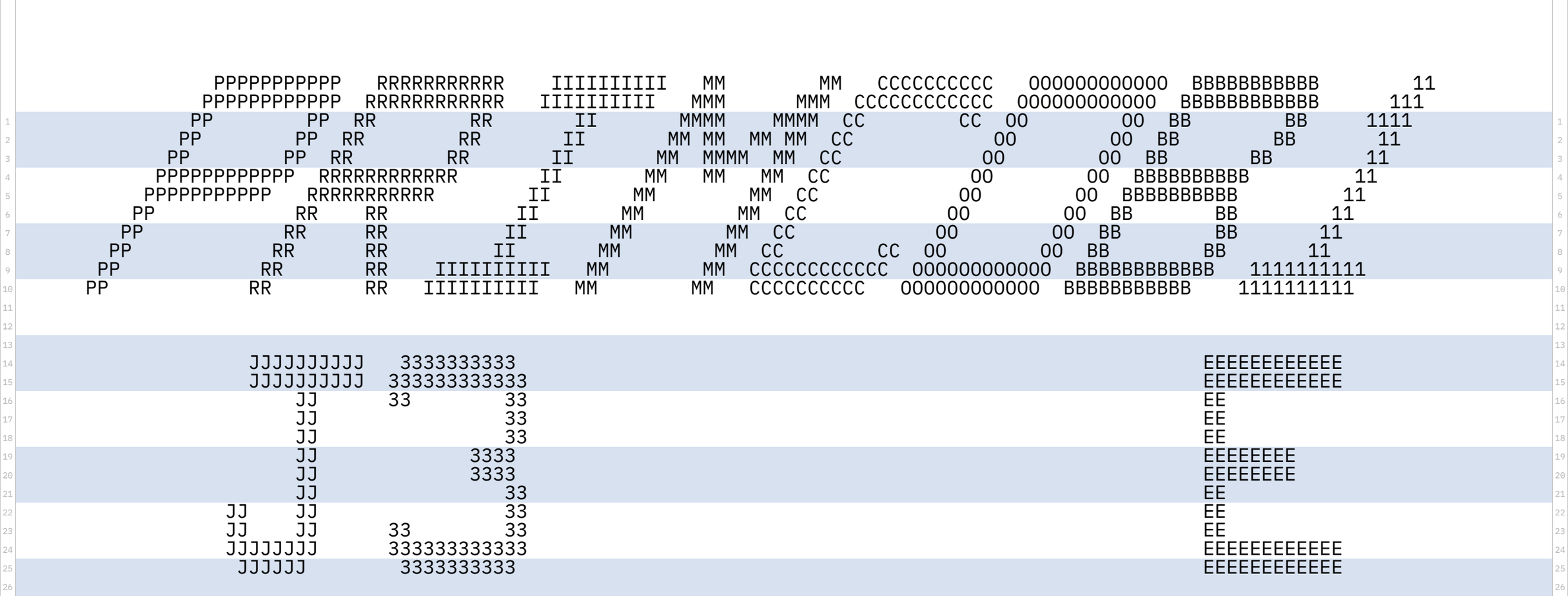

    NAME  TYPE  ADDR        NAME  TYPE  ADDR        NAME  TYPE  ADDR        NAME  TYPE  ADDR        NAME  TYPE  ADDR

  PRIMES     SD  AC010    ILBOSTP0*  SD  B4D40    ILBOSTP1*  LR  B4D56    ILBODSP0*  SD  B4D78    ILBOBID0*  SD  B5478
  ILBOBID2*  LR  B5484    ILBOBID1*  LR  B5498    ILBOIDB0*  SD  B54E0    ILBOIDB1*  LR  B54FC

  TOTAL LENGTH     9538
  ENTRY ADDRESS   AC010
```

```
     2     3     5     7    11    13    17    19    23    29    31    37    41    43    47    53    59
    73    79    83    89    97   101   103   107   109   113   127   131   137   139   149   151   157
   179   181   191   193   197   199   211   223   227   229   233   239   241   251   257   263   269
   283   293   307   311   313   317   331   337   347   349   353   359   367   373   379   383   389
   419   421   431   433   439   443   449   457   461   463   467   479   487   491   499   503   509
   547   557   563   569   571   577   587   593   599   601   607   613   617   619   631   641   643
   661   673   677   683   691   701   709   719   727   733   739   743   751   757   761   769   773
   811   821   823   827   829   839   853   857   859   863   877   881   883   887   907   911   919
   947   953   967   971   977   983   991   997  1009  1013  1019  1021  1031  1033  1039  1049  1051
  1087  1091  1093  1097  1103  1109  1117  1123  1129  1151  1153  1163  1171  1181  1187  1193  1201
  1229  1231  1237  1249  1259  1277  1279  1283  1289  1291  1297  1301  1303  1307  1319  1321  1327
  1381  1399  1409  1423  1427  1429  1433  1439  1447  1451  1453  1459  1471  1481  1483  1487  1489
  1523  1531  1543  1549  1553  1559  1567  1571  1579  1583  1597  1601  1607  1609  1613  1619  1621
  1663  1667  1669  1693  1697  1699  1709  1721  1723  1733  1741  1747  1753  1759  1777  1783  1787
  1823  1831  1847  1861  1867  1871  1873  1877  1879  1889  1901  1907  1913  1931  1933  1949  1951
  1993  1997  1999

 303 primes up to     2000 found.
```


PPPPPPPPPPP RRRRRRRRRRR IIIIIIIIII MM MM CCCCCCCCCC OOOOOOOOOOO BBBBBBBBBB 11
PPPPPPPPPPPP RRRRRRRRRRRR IIIIIIIIII MMM MMM CCCCCCCCCCCC OOOOOOOOOOO BBBBBBBBBBB 111
PP PP RR RR II MMMM MMMM CC CC OO OO BB BB 1111
PP PP RR RR II MM MM MM MM CC OO OO BB BB 11
PP PP RR RR II MM MMMM MM CC OO OO BB BB 11
PPPPPPPPPPPP RRRRRRRRRRRR II MM MM MM CC OO OO BBBBBBBBBB 11
PPPPPPPPPPP RRRRRRRRRRR II MM MM CC OO OO BBBBBBBBBB 11
PP RR RR II MM MM CC OO OO BB BB 11
PP RR RR II MM MM CC OO OO BB BB 11
PP RR RR II MM MM CC CC OO OO BB BB 11
PP RR RR IIIIIIIIII MM MM CCCCCCCCCCCC OOOOOOOOOOO BBBBBBBBBBB 1111111111
PP RR RR IIIIIIIIII MM MM CCCCCCCCCC OOOOOOOOOOO BBBBBBBBBB 1111111111
JJJJJJJJJJ 3333333333 EEEEEEEEEEE
JJJJJJJJJJ 333333333333 EEEEEEEEEEE
JJ 33 33 EE
JJ 33 EE
JJ 33 EE
JJ 3333 EEEEEEEE
JJ 3333 EEEEEEEE
JJ 33 EE
JJ JJ 33 EE
JJ JJ 33 33 EE
JJJJJJJ 333333333333 EEEEEEEEEEE
JJJJJJ 3333333333 EEEEEEEEEEE
****E END JOB 3 PRIMCOB1 Eratosthenes Sieve ROOM 2.44.27 AM 20 SEP 26 PRINTER4 SYS PI5B JOB 3 END E****
****E END JOB 3 PRIMCOB1 Eratosthenes Sieve ROOM 2.44.27 AM 20 SEP 26 PRINTER4 SYS PI5B JOB 3 END E****
****E END JOB 3 PRIMCOB1 Eratosthenes Sieve ROOM 2.44.27 AM 20 SEP 26 PRINTER4 SYS PI5B JOB 3 END E****
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