

This is a simple cobol benchmark for evaluate the compiler performance.

These results with Opencobol 1.1 binary package on a Intel(R) Core(TM)2 Duo CPU E7500 @2.93.Ghz 3,24 GB RAM XP Pro Service pack 3

Opencobol GCC 3.4.5 Gary's version (It was built using Berkeley Database V5.0.26, GMP V5.0.1 and PDCurses V4.3.

Elapsed time 00 min:00 sec: 00 hundredths 27 for COMPUTE
Elapsed time 00 min:00 sec: 00 hundredths 83 for UNSTRING
Elapsed time 00 min:00 sec: 00 hundredths 39 for STRING
Elapsed time 00 min:00 sec: 00 hundredths 37 for WRITE
Elapsed time 00 min:00 sec: 00 hundredths 03 for READ
Elapsed time 00 min:00 sec: 00 hundredths 30 for DELETE
Elapsed time 00 min:00 sec: 02 hundredths 19 for COMPLETE TEST

Opencobol□ Microsoft Visual Express C++ 2008 (built from me using the opencobol.org tarball with VISAM BMP and PDCurses kindly received from Human.

Elapsed time 00 min:00 sec: 00 hundredths 32 for COMPUTE
Elapsed time 00 min:00 sec: 00 hundredths 42 for UNSTRING
Elapsed time 00 min:00 sec: 00 hundredths 29 for STRING
Elapsed time 00 min:00 sec: 00 hundredths 18 for WRITE
Elapsed time 00 min:00 sec: 00 hundredths 06 for READ
Elapsed time 00 min:00 sec: 00 hundredths 28 for DELETE
Elapsed time 00 min:00 sec: 01 hundredths 55 for COMPLETE TEST

Feel free to use it with your cobol compiler and Opencobol then upload here the results !.

```
000000 IDENTIFICATION DIVISION.
000000 PROGRAM-ID. BENCH01.
000000*
000000* BENCHMARK for COBOL ...
000000*
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000000*          priolof@tp-srl.it
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000000* the Free Software Foundation, 51 Franklin Street, Fifth Floor
000000* Boston, MA 02110-1301 USA
000000*
000000*-----
000000 ENVIRONMENT DIVISION.
000000 CONFIGURATION SECTION.
000000 SOURCE-COMPUTER.    PC-IBM.
000000 OBJECT-COMPUTER.    PC-IBM.
000000 SPECIAL-NAMES.
000000
000000    DECIMAL-POINT IS COMMA.
000000
000000 INPUT-OUTPUT SECTION.
000000 FILE-CONTROL.
000000
000000    SELECT ARK-BENCH ASSIGN TO "bench01.dat"
000000    ORGANIZATION IS INDEXED
```

```
000000    ACCESS MODE IS DYNAMIC
000000    RECORD KEY IS CHIAVE-BENCH
000000    FILE STATUS IS STATUS-BENCH.
000000
000000 DATA DIVISION.
000000
000000 FILE SECTION.
000000
000000 FD ARK-BENCH.
000000 01 REC-BENCH.
000000 02 CHIAVE-BENCH.
000000 05 KEY-BENCH          PIC 9(9).
000000 02 DATI-BENCH         PIC X(119).
000000
000000*
000000 WORKING-STORAGE SECTION.
000000 01 STATUS-BENCH      PIC XX  VALUE "00".
000000 01 XTIMES            PIC 9(7) VALUE 1000000.
000000 01 XRECORD          PIC 9(7) VALUE 10000.
000000 01 NUMTEST          PIC 99  VALUE ZEROS.
000000 01 MAXTEST          PIC 99  VALUE 6.
000000 01 ORARIO-TIME.
000000    02 ORA-TIME       PIC 99.
000000    02 MIN-TIME       PIC 99.
000000    02 SEC-TIME       PIC 99.
000000    02 CEN-TIME       PIC 99.
000000
000000*-----
000000 77 INIZIO           PIC 9(9)V99 VALUE ZEROS.
000000 77 FINE              PIC 9(9)V99 VALUE ZEROS.
000000 77 ORARIO           PIC 9(9)V99 VALUE ZEROS.
000000 77 INIZIO1          PIC 9(9)V99 VALUE ZEROS.
000000 77 FINE1            PIC 9(9)V99 VALUE ZEROS.
000000 77 SECONDI          PIC 9(9)  VALUE ZEROS.
000000 77 CENTESIMI        PIC 9(9)V99 VALUE ZEROS.
000000 77 MINUTI           PIC 9(9)  VALUE ZEROS.
000000 77 ORE              PIC 9(9)  VALUE ZEROS.
000000 77 INSTRUCTION      PIC X(30) VALUE SPACE.
000000
000000 01 BIG              PIC S9(9)V9(7)
000000                      VALUE 987654321,8554469.
000000
000000 01 STRING1          PIC X(512) VALUE ALL "FEDERICO PRIOLO".
000000 01 STRING2          PIC X(512) VALUE SPACES.
000000 01 STRING3          PIC X(512) VALUE SPACES.
000000
```

```
000000*-----
000000 PROCEDURE DIVISION.
000000*-----
000000*MAIN SECTION.
000000
000000     PERFORM VARYING NUMTEST FROM 1 BY 1
000000         UNTIL NUMTEST > MAXTEST
000000
000000     PERFORM GET-TIME     THRU EX-GET-TIME
000000     MOVE ORARIO         TO INIZIO
000000
000000     IF INIZIO1 = ZEROS
000000     MOVE ORARIO         TO INIZIO1
000000     END-IF
000000
000000**** single test here
000000
000000     EVALUATE NUMTEST
000000     WHEN 4 MOVE "WRITE " TO INSTRUCTION
000000     PERFORM WRITE-TEST  THRU EX-WRITE-TEST
000000     WHEN 5 MOVE "READ  " TO INSTRUCTION
000000     PERFORM READ-TEST   THRU EX-READ-TEST
000000     WHEN 6 MOVE "DELETE" TO INSTRUCTION
000000     PERFORM DELETE-TEST THRU EX-DELETE-TEST
000000     END-EVALUATE
000000
000000**** multiply test here
000000
000000     PERFORM XTIMES     TIMES
000000
000000     EVALUATE NUMTEST
000000     WHEN 1 MOVE "COMPUTE" TO INSTRUCTION
000000     PERFORM COMPUTE-TEST THRU EX-COMPUTE-TEST
000000     WHEN 2 MOVE "UNSTRING" TO INSTRUCTION
000000     PERFORM UNSTRING-TEST THRU EX-UNSTRING-TEST
000000     WHEN 3 MOVE "STRING" TO INSTRUCTION
000000     PERFORM STRING-TEST  THRU EX-STRING-TEST
000000     END-EVALUATE
000000
000000
000000     END-PERFORM
000000
000000     PERFORM GET-TIME     THRU EX-GET-TIME
000000     MOVE ORARIO         TO FINE1
000000     PERFORM DO-RESULT    THRU EX-DO-RESULT
000000
```

```
000000    END-PERFORM.
000000
000000    MOVE INIZIO1      TO INIZIO
000000    MOVE FINE1        TO ORARIO
000000    MOVE "COMPLETE TEST" TO INSTRUCTION
000000
000000    PERFORM DO-RESULT  THRU EX-DO-RESULT
000000
000000
000000    STOP RUN.
000000
000000 COMPUTE-TEST.
000000
000000    COMPUTE BIG = BIG / 123456,78.
000000
000000 EX-COMPUTE-TEST.
000000    exit.
000000
000000 UNSTRING-TEST.
000000
000000    MOVE SPACES      TO STRING2.
000000    MOVE SPACES      TO STRING3.
000000
000000    UNSTRING STRING1 DELIMITED BY "RICO"
000000    INTO STRING2 STRING3.
000000
000000 EX-UNSTRING-TEST.
000000    EXIT.
000000
000000 WRITE-TEST.
000000
000000    OPEN OUTPUT ARK-BENCH.
000000
000000    PERFORM VARYING KEY-BENCH FROM 1 BY 1 UNTIL
000000    KEY-BENCH > XRECORD
000000
000000    ACCEPT ORARIO-TIME FROM TIME
000000
000000    MOVE ORARIO-TIME TO DATI-BENCH
000000
000000    WRITE REC-BENCH
000000    INVALID KEY CONTINUE
000000    END-WRITE
000000
000000    END-PERFORM.
000000
```

```
000000      CLOSE ARK-BENCH.
000000
000000
000000 EX-WRITE-TEST.
000000      EXIT.
000000
000000 READ-TEST.
000000
000000      OPEN INPUT ARK-BENCH.
000000
000000      PERFORM VARYING KEY-BENCH FROM 1 BY 1 UNTIL
000000      KEY-BENCH > XRECORD
000000
000000          READ ARK-BENCH KEY IS CHIAVE-BENCH
000000          INVALID KEY CONTINUE
000000          END-READ
000000
000000      END-PERFORM.
000000
000000      CLOSE ARK-BENCH.
000000
000000 EX-READ-TEST.
000000      EXIT.
000000
000000 DELETE-TEST.
000000
000000      OPEN I-O  ARK-BENCH.
000000
000000      PERFORM VARYING KEY-BENCH FROM 1 BY 1 UNTIL
000000      KEY-BENCH > XRECORD
000000
000000          DELETE ARK-BENCH
000000          INVALID KEY CONTINUE
000000          END-DELETE
000000
000000      END-PERFORM.
000000
000000      CLOSE ARK-BENCH.
000000
000000 EX-DELETE-TEST.
000000      EXIT.
000000
000000 STRING-TEST.
000000
000000      MOVE "FEDERICO"      TO STRING2.
000000      MOVE "PRIOLO"        TO STRING3.
```

```
000000
000000     STRING STRING2 DELIMITED BY "RICO"
000000     STRING3 DELIMITED BY SIZE INTO STRING1.
000000
000000 EX-STRING-TEST.
000000     EXIT.
000000
000000 GET-TIME.
000000
000000     ACCEPT ORARIO-TIME FROM TIME.
000000
000000     COMPUTE ORARIO ROUNDED = ( ORA-TIME * 3600 ) +
000000             ( MIN-TIME * 60 ) +
000000             SEC-TIME      +
000000             ( CEN-TIME / 100 ).
000000
000000 EX-GET-TIME.
000000     EXIT.
000000
000000 SET-TIME.
000000
000000     MOVE ORARIO TO SECONDI.
000000     MOVE ZEROS TO MINUTI ORE.
000000
000000     DIVIDE SECONDI BY 60
000000     GIVING MINUTI REMAINDER SECONDI.
000000
000000     IF MINUTI > 60
000000     DIVIDE MINUTI BY 60
000000     GIVING MINUTI REMAINDER ORE.
000000
000000     COMPUTE CENTESIMI = SECONDI - ORARIO
000000
000000     COMPUTE CENTESIMI = CENTESIMI * 100
000000
000000     MOVE CENTESIMI      TO CEN-TIME.
000000     MOVE ORE            TO ORA-TIME.
000000     MOVE MINUTI        TO MIN-TIME.
000000     MOVE SECONDI       TO SEC-TIME.
000000
000000 EX-SET-TIME.
000000     EXIT.
000000
000000 DO-RESULT.
000000
000000     MOVE ORARIO        TO FINE.
```

```
000000
000000    COMPUTE ORARIO = FINE - INIZIO.
000000
000000    PERFORM SET-TIME    THRU EX-SET-TIME.
000000
000000    DISPLAY "Elapsed time " ORA-TIME " min:" MIN-TIME
000000    " sec: " SEC-TIME " hundredths " CEN-TIME
000000    " for " INSTRUCTION.
000000
000000
000000 EX-DO-RESULT.
000000    EXIT.
```

lazione di un pacchetto di lingua.