



## B. RESULTADOS OBTENIDOS CON SYSBENCH.

### B.1. MySQL (MyISAM).

#### B.1.1. 1 usuario.

sysbench v0.4.3: multi-threaded system evaluation benchmark

No DB drivers specified, using mysql  
WARNING: Preparing of "LOCK TABLES sbtest WRITE" is unsupported, using emulation  
WARNING: Preparing of "UNLOCK TABLES" is unsupported, using emulation  
Running the test with following options:  
Number of threads: 1

Doing OLTP test.  
Running mixed OLTP test  
Using Special distribution (12 iterations, 1 pct of values are returned in 75 pct cases)  
Using "LOCK TABLES WRITE" for starting transactions  
Maximum number of requests for OLTP test is limited to 10000  
Threads started!  
Done.

OLTP test statistics:  
queries performed:  
    read:                            140000  
    write:                           50000  
    other:                           20000  
    total:                           210000  
transactions:                       10000 (194.09 per sec.)  
deadlocks:                          0 (0.00 per sec.)  
read/write requests:               190000 (3687.75 per sec.)  
other operations:                   20000 (388.18 per sec.)

Test execution summary:  
total time:                         51.5219s  
total number of events:             10000  
total time taken by event execution: 51.3171  
per-request statistics:  
    min:                             0.0048s  
    avg:                             0.0051s  
    max:                             0.0083s  
    approx. 95 percentile:          0.0054s

Threads fairness:  
events (avg/stddev):               10000.00/0.00  
execution time (avg/stddev):       0.01/0.00

#### B.1.2. 5 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

No DB drivers specified, using mysql  
WARNING: Preparing of "LOCK TABLES sbtest WRITE" is unsupported, using emulation  
WARNING: Preparing of "UNLOCK TABLES" is unsupported, using emulation  
Running the test with following options:  
Number of threads: 5



```
Doing OLTP test.
Running mixed OLTP test
Using Special distribution (12 iterations, 1 pct of values are
returned in 75 pct cases)
Using "LOCK TABLES WRITE" for starting transactions
Maximum number of requests for OLTP test is limited to 10000
Threads started!
Done.
```

```
OLTP test statistics:
  queries performed:
    read:                140000
    write:               50000
    other:               20000
    total:              210000
  transactions:        10000 (196.92 per sec.)
  deadlocks:           0      (0.00 per sec.)
  read/write requests: 190000 (3741.45 per sec.)
  other operations:    20000 (393.84 per sec.)
```

```
Test execution summary:
  total time:           50.7825s
  total number of events: 10000
  total time taken by event execution: 253.4894
  per-request statistics:
    min:                0.0050s
    avg:                0.0253s
    max:                4.2211s
    approx. 95 percentile: 0.0265s
```

```
Threads fairness:
  events (avg/stddev):    2000.00/233.39
  execution time (avg/stddev): 0.03/0.00
```

### B.1.3. 30 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

```
No DB drivers specified, using mysql
WARNING: Preparing of "LOCK TABLES sbtest WRITE" is unsupported, using
emulation
WARNING: Preparing of "UNLOCK TABLES" is unsupported, using emulation
Running the test with following options:
Number of threads: 30
```

```
Doing OLTP test.
Running mixed OLTP test
Using Special distribution (12 iterations, 1 pct of values are
returned in 75 pct cases)
Using "LOCK TABLES WRITE" for starting transactions
Maximum number of requests for OLTP test is limited to 10000
Threads started!
Done.
```

```
OLTP test statistics:
  queries performed:
    read:                140000
    write:               50000
    other:               20000
    total:              210000
```



```
transactions:          10000 (196.47 per sec.)
deadlocks:             0      (0.00 per sec.)
read/write requests:  190000 (3732.91 per sec.)
other operations:     20000 (392.94 per sec.)
```

### Test execution summary:

```
total time:           50.8987s
total number of events: 10000
total time taken by event execution: 1129.2732
per-request statistics:
  min:                0.0078s
  avg:                 0.1129s
  max:                 0.1606s
  approx. 95 percentile: 0.1549s
```

### Threads fairness:

```
events (avg/stddev):    333.33/175.89
execution time (avg/stddev): 0.11/0.03
```

### B.1.4. 60 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

No DB drivers specified, using mysql

WARNING: Preparing of "LOCK TABLES sbtest WRITE" is unsupported, using emulation

WARNING: Preparing of "UNLOCK TABLES" is unsupported, using emulation

Running the test with following options:

Number of threads: 60

Doing OLTP test.

Running mixed OLTP test

Using Special distribution (12 iterations, 1 pct of values are returned in 75 pct cases)

Using "LOCK TABLES WRITE" for starting transactions

Maximum number of requests for OLTP test is limited to 10000

Threads started!

Done.

### OLTP test statistics:

```
queries performed:
  read:                140000
  write:                50000
  other:                20000
  total:                210000
transactions:          10000 (193.96 per sec.)
deadlocks:             0      (0.00 per sec.)
read/write requests:  190000 (3685.30 per sec.)
other operations:     20000 (387.93 per sec.)
```

### Test execution summary:

```
total time:           51.5562s
total number of events: 10000
total time taken by event execution: 3038.1523
per-request statistics:
  min:                0.0050s
  avg:                 0.3038s
  max:                 10.1305s
  approx. 95 percentile: 0.3128s
```

### Threads fairness:



events (avg/stddev): 166.67/9.60  
execution time (avg/stddev): 0.30/0.01

### B.1.5. 90 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

No DB drivers specified, using mysql  
WARNING: Preparing of "LOCK TABLES sbtest WRITE" is unsupported, using emulation  
WARNING: Preparing of "UNLOCK TABLES" is unsupported, using emulation  
Running the test with following options:  
Number of threads: 90

Doing OLTP test.  
Running mixed OLTP test  
Using Special distribution (12 iterations, 1 pct of values are returned in 75 pct cases)  
Using "LOCK TABLES WRITE" for starting transactions  
Maximum number of requests for OLTP test is limited to 10000  
Threads started!  
Done.

OLTP test statistics:  
queries performed:  
  read: 140000  
  write: 50000  
  other: 20000  
  total: 210000  
transactions: 10000 (186.45 per sec.)  
deadlocks: 0 (0.00 per sec.)  
read/write requests: 190000 (3542.49 per sec.)  
other operations: 20000 (372.89 per sec.)

Test execution summary:  
total time: 53.6345s  
total number of events: 10000  
total time taken by event execution: 4790.8025  
per-request statistics:  
  min: 0.0051s  
  avg: 0.4791s  
  max: 4.4097s  
  approx. 95 percentile: 0.4859s

Threads fairness:  
events (avg/stddev): 111.11/3.00  
execution time (avg/stddev): 0.48/0.01

### B.1.6. 150 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

No DB drivers specified, using mysql  
WARNING: Preparing of "LOCK TABLES sbtest WRITE" is unsupported, using emulation  
WARNING: Preparing of "UNLOCK TABLES" is unsupported, using emulation  
Running the test with following options:  
Number of threads: 150

Doing OLTP test.



```
Running mixed OLTP test
Using Special distribution (12 iterations, 1 pct of values are
returned in 75 pct cases)
Using "LOCK TABLES WRITE" for starting transactions
Maximum number of requests for OLTP test is limited to 10000
Threads started!
Done.
```

```
OLTP test statistics:
  queries performed:
    read:                140000
    write:               50000
    other:               20000
    total:               210000
  transactions:         10000 (187.98 per sec.)
  deadlocks:            0      (0.00 per sec.)
  read/write requests: 190000 (3571.71 per sec.)
  other operations:     20000 (375.97 per sec.)
```

```
Test execution summary:
  total time:           53.1958s
  total number of events: 10000
  total time taken by event execution: 6804.2596
  per-request statistics:
    min:                0.0049s
    avg:                0.6804s
    max:                10.9538s
    approx. 95 percentile: 0.7977s
```

```
Threads fairness:
  events (avg/stddev): 66.67/19.92
  execution time (avg/stddev): 0.68/0.12
```

### B.1.7. 225 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

```
No DB drivers specified, using mysql
WARNING: Preparing of "LOCK TABLES sbtest WRITE" is unsupported, using
emulation
WARNING: Preparing of "UNLOCK TABLES" is unsupported, using emulation
Running the test with following options:
Number of threads: 225
```

```
Doing OLTP test.
Running mixed OLTP test
Using Special distribution (12 iterations, 1 pct of values are
returned in 75 pct cases)
Using "LOCK TABLES WRITE" for starting transactions
Maximum number of requests for OLTP test is limited to 10000
Threads started!
Done.
```

```
OLTP test statistics:
  queries performed:
    read:                140000
    write:               50000
    other:               20000
    total:               210000
  transactions:         10000 (189.03 per sec.)
  deadlocks:            0      (0.00 per sec.)
```



```
read/write requests:      190000 (3591.56 per sec.)
other operations:        20000  (378.06 per sec.)
```

### Test execution summary:

```
total time:                52.9018s
total number of events:    10000
total time taken by event execution: 9029.3172
per-request statistics:
  min:                      0.0052s
  avg:                       0.9029s
  max:                       13.1931s
  approx. 95 percentile:    1.2148s
```

### Threads fairness:

```
events (avg/stddev):      44.44/40.67
execution time (avg/stddev): 0.90/0.33
```

### B.1.8. 300 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

No DB drivers specified, using mysql

WARNING: Preparing of "LOCK TABLES sbtest WRITE" is unsupported, using emulation

WARNING: Preparing of "UNLOCK TABLES" is unsupported, using emulation

Running the test with following options:

Number of threads: 300

Doing OLTP test.

Running mixed OLTP test

Using Special distribution (12 iterations, 1 pct of values are returned in 75 pct cases)

Using "LOCK TABLES WRITE" for starting transactions

Maximum number of requests for OLTP test is limited to 10000

Threads started!

Done.

### OLTP test statistics:

```
queries performed:
  read:                    140000
  write:                   50000
  other:                   20000
  total:                   210000
transactions:             10000 (180.00 per sec.)
deadlocks:                0     (0.00 per sec.)
read/write requests:     190000 (3419.99 per sec.)
other operations:        20000  (360.00 per sec.)
```

### Test execution summary:

```
total time:                55.5557s
total number of events:    10000
total time taken by event execution: 16386.3334
per-request statistics:
  min:                      0.0051s
  avg:                       1.6386s
  max:                       1.8497s
  approx. 95 percentile:    1.7393s
```

### Threads fairness:

```
events (avg/stddev):      33.33/0.94
execution time (avg/stddev): 1.64/0.03
```



## B.2. MySQL (InnoDB).

### B.2.1. 1 usuario.

sysbench v0.4.3: multi-threaded system evaluation benchmark

WARNING: Preparing of "BEGIN" is unsupported, using emulation  
WARNING: Preparing of "COMMIT" is unsupported, using emulation  
Running the test with following options:  
Number of threads: 1

Doing OLTP test.  
Running mixed OLTP test  
Using Special distribution (12 iterations, 1 pct of values are returned in 75 pct cases)  
Using "BEGIN" for starting transactions  
Maximum number of requests for OLTP test is limited to 10000  
Threads started!  
Done.

OLTP test statistics:  
queries performed:  
    read:                            140000  
    write:                           50000  
    other:                           20000  
    total:                          210000  
transactions:                      10000 (161.54 per sec.)  
deadlocks:                          0 (0.00 per sec.)  
read/write requests:              190000 (3069.29 per sec.)  
other operations:                  20000 (323.08 per sec.)

Test execution summary:  
total time:                          61.9036s  
total number of events:             10000  
total time taken by event execution: 61.6950  
per-request statistics:  
    min:                             0.0048s  
    avg:                             0.0062s  
    max:                             0.3466s  
    approx. 95 percentile:          0.0163s

Threads fairness:  
events (avg/stddev):                10000.00/0.00  
execution time (avg/stddev):        0.01/0.00

### B.2.2. 5 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

WARNING: Preparing of "BEGIN" is unsupported, using emulation  
WARNING: Preparing of "COMMIT" is unsupported, using emulation  
Running the test with following options:  
Number of threads: 5

Doing OLTP test.  
Running mixed OLTP test  
Using Special distribution (12 iterations, 1 pct of values are returned in 75 pct cases)  
Using "BEGIN" for starting transactions



Maximum number of requests for OLTP test is limited to 10000  
Threads started!  
Done.

OLTP test statistics:  
queries performed:  
    read:                          140000  
    write:                         50000  
    other:                         20000  
    total:                         210000  
transactions:                     10000 (187.13 per sec.)  
deadlocks:                         0 (0.00 per sec.)  
read/write requests:              190000 (3555.43 per sec.)  
other operations:                  20000 (374.26 per sec.)

Test execution summary:  
total time:                         53.4394s  
total number of events:            10000  
total time taken by event execution: 266.8979  
per-request statistics:  
    min:                            0.0049s  
    avg:                            0.0267s  
    max:                            0.6829s  
    approx. 95 percentile:         0.0814s

Threads fairness:  
events (avg/stddev):               2000.00/97.03  
execution time (avg/stddev):       0.03/0.00

### B.2.3. 30 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

WARNING: Preparing of "BEGIN" is unsupported, using emulation  
WARNING: Preparing of "COMMIT" is unsupported, using emulation  
Running the test with following options:  
Number of threads: 30

Doing OLTP test.  
Running mixed OLTP test  
Using Special distribution (12 iterations, 1 pct of values are  
returned in 75 pct cases)  
Using "BEGIN" for starting transactions  
Maximum number of requests for OLTP test is limited to 10000  
Threads started!  
Done.

OLTP test statistics:  
queries performed:  
    read:                          140112  
    write:                         50020  
    other:                         20008  
    total:                         210140  
transactions:                     10000 (175.41 per sec.)  
deadlocks:                         8 (0.14 per sec.)  
read/write requests:              190132 (3335.05 per sec.)  
other operations:                  20008 (350.95 per sec.)

Test execution summary:  
total time:                         57.0103s  
total number of events:            10000





```
total time taken by event execution: 1696.6795
per-request statistics:
  min:                0.0049s
  avg:                0.1697s
  max:                4.2603s
  approx. 95 percentile: 0.4823s
```

```
Threads fairness:
  events (avg/stddev):       333.33/121.84
  execution time (avg/stddev): 0.17/0.04
```

### B.2.4. 60 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

```
WARNING: Preparing of "BEGIN" is unsupported, using emulation
WARNING: Preparing of "COMMIT" is unsupported, using emulation
Running the test with following options:
Number of threads: 60
```

```
Doing OLTP test.
Running mixed OLTP test
Using Special distribution (12 iterations, 1 pct of values are
returned in 75 pct cases)
Using "BEGIN" for starting transactions
Maximum number of requests for OLTP test is limited to 10000
Threads started!
Done.
```

```
OLTP test statistics:
  queries performed:
    read:                140994
    write:               50168
    other:               20071
    total:               211233
  transactions:        10000 (149.52 per sec.)
  deadlocks:           71 (1.06 per sec.)
  read/write requests: 191162 (2858.16 per sec.)
  other operations:    20071 (300.09 per sec.)
```

```
Test execution summary:
  total time:                66.8828s
  total number of events:    10000
  total time taken by event execution: 3920.6019
  per-request statistics:
    min:                0.0050s
    avg:                0.3921s
    max:                4.2452s
    approx. 95 percentile: 0.8561s
```

```
Threads fairness:
  events (avg/stddev):       166.67/46.42
  execution time (avg/stddev): 0.39/0.06
```

### B.2.5. 90 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

```
WARNING: Preparing of "BEGIN" is unsupported, using emulation
WARNING: Preparing of "COMMIT" is unsupported, using emulation
```



Running the test with following options:

Number of threads: 90

Doing OLTP test.

Running mixed OLTP test

Using Special distribution (12 iterations, 1 pct of values are returned in 75 pct cases)

Using "BEGIN" for starting transactions

Maximum number of requests for OLTP test is limited to 10000

Threads started!

Done.

OLTP test statistics:

queries performed:

read: 160132

write: 52891

other: 21438

total: 234461

transactions: 10000 (92.08 per sec.)

deadlocks: 1438 (13.24 per sec.)

read/write requests: 213023 (1961.60 per sec.)

other operations: 21438 (197.41 per sec.)

Test execution summary:

total time: 108.5966s

total number of events: 10000

total time taken by event execution: 9754.0589

per-request statistics:

min: 0.0089s

avg: 0.9754s

max: 9.9332s

approx. 95 percentile: 2.8289s

Threads fairness:

events (avg/stddev): 111.11/9.43

execution time (avg/stddev): 0.98/0.08

### B.2.6. 150 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

No DB drivers specified, using mysql

WARNING: Preparing of "BEGIN" is unsupported, using emulation

WARNING: Preparing of "COMMIT" is unsupported, using emulation

Running the test with following options:

Number of threads: 150

Doing OLTP test.

Running mixed OLTP test

Using Special distribution (12 iterations, 1 pct of values are returned in 75 pct cases)

Using "BEGIN" for starting transactions

Maximum number of requests for OLTP test is limited to 10000

Threads started!

Done.

OLTP test statistics:

queries performed:

read: 211512

write: 59240

other: 25108



```
total: 295860
transactions: 10000 (62.40 per sec.)
deadlocks: 5108 (31.88 per sec.)
read/write requests: 270752 (1689.55 per sec.)
other operations: 25108 (156.68 per sec.)
```

### Test execution summary:

```
total time: 160.2505s
total number of events: 10000
total time taken by event execution: 23983.2904
per-request statistics:
  min: 0.0100s
  avg: 2.3983s
  max: 30.5641s
  approx. 95 percentile: 7.0573s
```

### Threads fairness:

```
events (avg/stddev): 66.67/9.08
execution time (avg/stddev): 2.40/0.35
```

### B.2.7. 225 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

No DB drivers specified, using mysql

WARNING: Preparing of "BEGIN" is unsupported, using emulation

WARNING: Preparing of "COMMIT" is unsupported, using emulation

Running the test with following options:

Number of threads: 225

Doing OLTP test.

Running mixed OLTP test

Using Special distribution (12 iterations, 1 pct of values are returned in 75 pct cases)

Using "BEGIN" for starting transactions

Maximum number of requests for OLTP test is limited to 10000

Threads started!

Done.

### OLTP test statistics:

```
queries performed:
  read: 300664
  write: 69196
  other: 31476
  total: 401336
transactions: 10000 (39.63 per sec.)
deadlocks: 11476 (45.48 per sec.)
read/write requests: 369860 (1465.65 per sec.)
other operations: 31476 (124.73 per sec.)
```

### Test execution summary:

```
total time: 252.3522s
total number of events: 10000
total time taken by event execution: 56621.5769
per-request statistics:
  min: 0.0114s
  avg: 5.6622s
  max: 91.8468s
  approx. 95 percentile: 18.0814s
```

### Threads fairness:



events (avg/stddev): 44.44/8.20  
execution time (avg/stddev): 5.66/1.28

### B.2.8. 300 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

No DB drivers specified, using mysql  
WARNING: Preparing of "BEGIN" is unsupported, using emulation  
WARNING: Preparing of "COMMIT" is unsupported, using emulation  
Running the test with following options:  
Number of threads: 300

Doing OLTP test.  
Running mixed OLTP test  
Using Special distribution (12 iterations, 1 pct of values are returned in 75 pct cases)  
Using "BEGIN" for starting transactions  
Maximum number of requests for OLTP test is limited to 10000  
Threads started!  
Done.

OLTP test statistics:  
queries performed:  
  read: 408282  
  write: 79298  
  other: 39163  
  total: 526743  
transactions: 10000 (26.31 per sec.)  
deadlocks: 19163 (50.41 per sec.)  
read/write requests: 487580 (1282.64 per sec.)  
other operations: 39163 (103.02 per sec.)

Test execution summary:  
total time: 380.1364s  
total number of events: 10000  
total time taken by event execution: 113568.2864  
per-request statistics:  
  min: 0.0119s  
  avg: 11.3568s  
  max: 265.4661s  
  approx. 95 percentile: 37.9757s

Threads fairness:  
events (avg/stddev): 33.33/7.99  
execution time (avg/stddev): 11.36/5.26

### B.3. PostgreSQL.

#### B.3.1. 1 usuario.

sysbench v0.4.3: multi-threaded system evaluation benchmark

Running the test with following options:  
Number of threads: 1

Doing OLTP test.  
Running mixed OLTP test  
Using Special distribution (12 iterations, 1 pct of values are returned in 75 pct cases)



Using "BEGIN" for starting transactions  
Maximum number of requests for OLTP test is limited to 10000  
Threads started!  
Done.

OLTP test statistics:  
queries performed:  
  read: 140000  
  write: 50000  
  other: 20000  
  total: 210000  
transactions: 10000 (161.77 per sec.)  
deadlocks: 0 (0.00 per sec.)  
read/write requests: 190000 (3073.63 per sec.)  
other operations: 20000 (323.54 per sec.)

Test execution summary:  
total time: 61.8279s  
total number of events: 10000  
total time taken by event execution: 61.5676  
per-request statistics:  
  min: 0.0050s  
  avg: 0.0062s  
  max: 0.0234s  
  approx. 95 percentile: 0.0070s

Threads fairness:  
events (avg/stddev): 10000.00/0.00  
execution time (avg/stddev): 0.01/0.00

### B.3.2. 5 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

Running the test with following options:  
Number of threads: 5

Doing OLTP test.  
Running mixed OLTP test  
Using Special distribution (12 iterations, 1 pct of values are returned in 75 pct cases)  
Using "BEGIN" for starting transactions  
Maximum number of requests for OLTP test is limited to 10000  
Threads started!  
Done.

OLTP test statistics:  
queries performed:  
  read: 140000  
  write: 50000  
  other: 20000  
  total: 210000  
transactions: 10000 (153.77 per sec.)  
deadlocks: 0 (0.00 per sec.)  
read/write requests: 190000 (2921.62 per sec.)  
other operations: 20000 (307.54 per sec.)

Test execution summary:  
total time: 65.0393s  
total number of events: 10000  
total time taken by event execution: 308.8372



```
per-request statistics:
  min:                0.0059s
  avg:                0.0309s
  max:                5.5689s
  approx. 95 percentile: 0.0414s
```

```
Threads fairness:
  events (avg/stddev):      2000.00/211.1
  execution time (avg/stddev): 0.03/0.14
```

### B.3.3. 30 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

Running the test with following options:

Number of threads: 30

Doing OLTP test.

Running mixed OLTP test

Using Special distribution (12 iterations, 1 pct of values are returned in 75 pct cases)

Using "BEGIN" for starting transactions

Maximum number of requests for OLTP test is limited to 10000

Threads started!

Done.

```
OLTP test statistics:
  queries performed:
    read:              140000
    write:             50000
    other:             20000
    total:             210000
  transactions:      10000 (132.24 per sec.)
  deadlocks:         0 (0.00 per sec.)
  read/write requests: 190000 (2512.49 per sec.)
  other operations:  20000 (264.47 per sec.)
```

Test execution summary:

```
total time:                75.6203s
total number of events:    10000
total time taken by event execution: 2110.5193
per-request statistics:
  min:                0.0412s
  avg:                0.2111s
  max:                0.4114s
  approx. 95 percentile: 0.3422s
```

Threads fairness:

```
events (avg/stddev):      333.33/179.79
execution time (avg/stddev): 0.21/0.05
```

### B.3.4. 60 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

Running the test with following options:

Number of threads: 60

Doing OLTP test.

Running mixed OLTP test



Using Special distribution (12 iterations, 1 pct of values are returned in 75 pct cases)  
Using "BEGIN" for starting transactions  
Maximum number of requests for OLTP test is limited to 10000  
Threads started!  
Done.

OLTP test statistics:  
queries performed:  
  read: 140000  
  write: 50000  
  other: 20000  
  total: 210000  
transactions: 10000 (117.22 per sec.)  
deadlocks: 0 (0.00 per sec.)  
read/write requests: 190000 (2227.25 per sec.)  
other operations: 20000 (234.45 per sec.)

Test execution summary:  
total time: 85.3107s  
total number of events: 10000  
total time taken by event execution: 3293.5723  
per-request statistics:  
  min: 0.0690s  
  avg: 0.3294s  
  max: 11.7326s  
  approx. 95 percentile: 0.6797s

Threads fairness:  
events (avg/stddev): 166.67/11.12  
execution time (avg/stddev): 0.33/0.22

### B.3.5. 90 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

Running the test with following options:  
Number of threads: 90

Doing OLTP test.  
Running mixed OLTP test  
Using Special distribution (12 iterations, 1 pct of values are returned in 75 pct cases)  
Using "BEGIN" for starting transactions  
Maximum number of requests for OLTP test is limited to 10000  
Threads started!  
Done.

OLTP test statistics:  
queries performed:  
  read: 140000  
  write: 50000  
  other: 20000  
  total: 210000  
transactions: 10000 (104.71 per sec.)  
deadlocks: 0 (0.00 per sec.)  
read/write requests: 190000 (1989.44 per sec.)  
other operations: 20000 (209.41 per sec.)

Test execution summary:  
total time: 95.5003s



```
total number of events:          10000
total time taken by event execution: 4688.8654
per-request statistics:
  min:                          0.1335s
  avg:                          0.4689s
  max:                          6.8117s
  approx. 95 percentile:       0.7802s
```

```
Threads fairness:
  events (avg/stddev):          111.11/3.92
  execution time (avg/stddev):  0.47/0.31
```

### B.3.6. 150 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

Running the test with following options:

Number of threads: 150

Doing OLTP test.

Running mixed OLTP test

Using Special distribution (12 iterations, 1 pct of values are returned in 75 pct cases)

Using "BEGIN" for starting transactions

Maximum number of requests for OLTP test is limited to 10000

Threads started!

Done.

OLTP test statistics:

```
queries performed:
  read:                          140000
  write:                         50000
  other:                         20000
  total:                         210000
transactions:                   10000   (85.30 per sec.)
deadlocks:                      0       (0.00 per sec.)
read/write requests:           190000   (1620.75 per sec.)
other operations:              20000   (170.61 per sec.)
```

Test execution summary:

```
total time:                      117.2372s
total number of events:          10000
total time taken by event execution: 8363.7593
per-request statistics:
  min:                          0.2898s
  avg:                          0.8364s
  max:                          12.1522s
  approx. 95 percentile:       1.1144s
```

Threads fairness:

```
events (avg/stddev):            66.67/20.47
execution time (avg/stddev):    0.84/0.52
```

### B.3.7. 225 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

Running the test with following options:

Number of threads: 225





```
Doing OLTP test.
Running mixed OLTP test
Using Special distribution (12 iterations, 1 pct of values are
returned in 75 pct cases)
Using "BEGIN" for starting transactions
Maximum number of requests for OLTP test is limited to 10000
Threads started!
Done.
```

```
OLTP test statistics:
  queries performed:
    read:                140000
    write:               50000
    other:               20000
    total:              210000
  transactions:        10000   (99.21 per sec.)
  deadlocks:           0       (0.00 per sec.)
  read/write requests: 190000   (1885.01 per sec.)
  other operations:    20000   (198.42 per sec.)
```

```
Test execution summary:
  total time:           100.8063s
  total number of events: 10000
  total time taken by event execution: 386.0494
  per-request statistics:
    min:                0.0116s
    avg:                2.0386s
    max:                15.9624s
    approx. 95 percentile: 1.0458s
```

```
Threads fairness:
  events (avg/stddev):  44.44/37.79
  execution time (avg/stddev): 0.04/0.07
```

### B.3.8. 300 usuarios.

sysbench v0.4.3: multi-threaded system evaluation benchmark

```
Running the test with following options:
Number of threads: 300
```

```
Doing OLTP test.
Running mixed OLTP test
Using Special distribution (12 iterations, 1 pct of values are
returned in 75 pct cases)
Using "BEGIN" for starting transactions
Maximum number of requests for OLTP test is limited to 10000
Threads started!
Done.
```

```
OLTP test statistics:
  queries performed:
    read:                140000
    write:               50000
    other:               20000
    total:              210000
  transactions:        10000   (88.58 per sec.)
  deadlocks:           0       (0.00 per sec.)
  read/write requests: 190000   (1683.09 per sec.)
  other operations:    20000   (177.17 per sec.)
```



Test execution summary:

total time:	112.8982s
total number of events:	10000
total time taken by event execution:	19644.7873
per-request statistics:	
min:	0.0311s
avg:	2.1964s
max:	3.0886s
approx. 95 percentile:	1.3070s

Threads fairness:

events (avg/stddev):	33.33/2.39
execution time (avg/stddev):	0.20/0.21