```
Python Module Listing Complete
                                                                              sysbench 0.4.12: multi-threaded system evaluation benchmark
CPU Test: 1 / 10 complete.
CPU Test: 2 / 10 complete.
                                                                              Running the test with following options:
CPU Test: 3 / 10 complete.
                                                                              Number of threads: 8
CPU Test: 4 / 10 complete.
CPU Test: 5 / 10 complete.
                                                                              Doing memory operations speed test
CPU Test: 6 / 10 complete.
                                                                              Memory block size: 1K
CPU Test: 7 / 10 complete.
CPU Test: 8 / 10 complete.
CPU Test: 9 / 10 complete.
                                                                              Memory transfer size: 10240M
CPU Test: 10 / 10 complete.
                                                                              Memory operations type: write
Memory Test: 1 / 10 complete.
                                                                              Memory scope type: global
                                                                              Threads started!
Memory Test: 2 / 10 complete.
Memory Test: 3 / 10 complete.
                                                                              Done.
Memory Test: 4 / 10 complete.
Memory Test: 5 / 10 complete.
                                                                              Operations performed: 10485760 (4307716.64 ops/sec)
Memory Test: 6 / 10 complete.
Memory Test: 7 / 10 complete.
                                                                              10240.00 MB transferred (4206.75 MB/sec)
Memory Test: 8 / 10 complete.
Memory Test: 9 / 10 complete.
Memory Test: 10 / 10 complete.
                                                                              Test execution summary:
Thread Test: 1 / 10 complete.
                                                                                  total time:
                                                                                                                      2.4342s
                                                                                  total number of events:
Thread Test: 2 / 10 complete.
                                                                                                                      10485760
Thread Test: 3 / 10 complete.
                                                                                  total time taken by event execution: 9.6471
Thread Test: 4 / 10 complete.
                                                                                  per-request statistics:
Thread Test: 5 / 10 complete.
                                                                                       min:
                                                                                                                             0.00ms
Thread Test: 6 / 10 complete.
                                                                                       avg:
                                                                                                                            0.00ms
Thread Test: 7 / 10 complete.
                                                                                       max:
                                                                                                                             4.91ms
Thread Test: 8 / 10 complete.
                                                                                       approx. 95 percentile:
                                                                                                                            0.00ms
Thread Test: 9 / 10 complete.
Thread Test: 10 / 10 complete.
                                                                              Threads fairness:
                                                                                  events (avg/stddev): 1310720.0000/6985.65 execution time (avg/stddev): 1.2059/0.01
File Test: 1 / 10 complete.
File Test: 2 / 10 complete.
File Test: 3 / 10 complete.
File Test: 4 / 10 complete.
                                                                              Memory Test 8 End: 2018-05-17 02:05:39.443756
File Test: 5 / 10 complete.
                                                                              Memory Test 9 Start: 2018-05-17 02:05:40.444908
File Test: 6 / 10 complete.
                                                                              sysbench 0.4.12: multi-threaded system evaluation benchmark
File Test: 7 / 10 complete.
File Test: 8 / 10 complete.
                                                                              Running the test with following options:
File Test: 9 / 10 complete.
                                                                              Number of threads: 8
File Test: 10 / 10 complete.
CPvthon default
                                                                              Doing memory operations speed test
Linux-4.15.0-20-generic-x86_64-with-Ubuntu-18.04-bionic
                                                                              Memory block size: 1K
x86_64 x86_64 x 8 cores
                                                                              Memory transfer size: 10240M
FQDN: ronc-GL752VW ( ronc-GL752VW )
LAN IPv4: 127.0.1.1
                                                                              Memory operations type: write
                                                                              Memory scope type: global
Package
           Version
                                                                              Threads started!
-----
                                                                              Done.
asn1crypto 0.24.0
certifi
            2018.4.16
                                                                              Operations performed: 10485760 (4218418.37 ops/sec)
cffi
            1.11.4
chardet
            3.0.4
                                                                              10240.00 MB transferred (4119.55 MB/sec)
conda
            4.5.1
cryptography 2.1.4
enum34 1.1.6
futures 3.2.0
                                                                              Test execution summary:
                                                                                  total number of events:
                                                                                                                     2.4857s
idna
            2.6
                                                                                                                      10485760
ipaddress 1.0.19
                                                                                  total time taken by event execution: 10.1942
                                                                                  per-request statistics:
pip
            9.0.1
рıр
pycosat
            0.6.3
                                                                                       min:
pycparser
            2.18
                                                                                                                            0.00ms
                                                                                       avg:
pyOpenSSL 17.5.0
                                                                                                                            1.25ms
                                                                                       max:
PySocks
                                                                                       approx. 95 percentile:
            1.6.7
                                                                                                                            0.00ms
requests
            2.18.4
ruamel-yaml 0.15.35
                                                                              Threads fairness:
                                                                                  events (avg/stddev):
setuptools 38.4.0
                                                                                                               1310720.0000/6978.40
urllib3 1.22
                                                                                  execution time (avg/stddev): 1.2743/0.00
           0.30.0
                                                                              Memory Test 9 End: 2018-05-17 02:05:42.933043
wheel
Package
           Version
                                                                              Thread Test 0 Start: 2018-05-17 02:05:43.934308
                                                                              sysbench 0.4.12: multi-threaded system evaluation benchmark
asn1crypto 0.24.0
certifi 2018.4.16
                                                                              Running the test with following options:
cffi
            1.11.4
                                                                              Number of threads: 128
chardet 3.0.4
conda
           4.5.1
                                                                              Doing thread subsystem performance test
cryptography 2.1.4
                                                                              Thread yields per test: 1000 Locks used: 8
         1.1.6
enum34
                                                                              Threads started!
futures
            3.2.0
                                                                              Done.
idna 2.6
ipaddress 1.0.19
pip 9.0.1
pycosat 0.6.3
                                                                              Test execution summary:
                                                                                  total time:
                                                                                                                      2.7651s
                                                                                  total number of events:
pycparser 2.18
pyOpenSSL 17.5.0
                                                                                                                      10000
                                                                                  total time taken by event execution: 350.5884
```

Memory Test 8 Start: 2018-05-17 02:05:37.003180

Computer Info Complete

```
PvSocks
            1.6.7
                                                                                 per-request statistics:
                                                                                                                           0.45ms
requests
           2.18.4
                                                                                      min:
ruamel-yaml 0.15.35
                                                                                      avg:
                                                                                                                          35.06ms
setuptools 38.4.0
                                                                                      max:
                                                                                                                         243.46ms
            1.11.0
                                                                                      approx. 95 percentile:
                                                                                                                          86.49ms
six
urllib3
            1.22
wheel
            0.30.0
                                                                             Threads fairness:
                                                                                 events (avg/stddev):
                                                                                                             78.1250/6.55
                                                                                 execution time (avg/stddev): 2.7390/0.01
CPU Test 0 Start: 2018-05-17 02:04:25.104727
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                             Thread Test 0 End: 2018-05-17 02:05:46.706087
Running the test with following options:
                                                                             Thread Test 1 Start: 2018-05-17 02:05:47.707339
Number of threads: 8
                                                                             sysbench 0.4.12: multi-threaded system evaluation benchmark
Doing CPU performance benchmark
                                                                             Running the test with following options:
                                                                             Number of threads: 128
Threads started!
                                                                             Doing thread subsystem performance test
Done.
                                                                             Thread yields per test: 1000 Locks used: 8
Maximum prime number checked in CPU test: 20000
                                                                             Threads started!
                                                                             Done.
Test execution summary:
   total time:
                                                                             Test execution summary:
                                       3.38395
                                       10000
    total number of events:
                                                                                 total time:
                                                                                                                     2.9587s
                                                                                 total number of events:
    total time taken by event execution: 27.0621
                                                                                                                     10000
    per-request statistics:
                                                                                 total time taken by event execution: 376.2520
        min:
                                              2.44ms
                                                                                 per-request statistics:
        avg:
                                              2.71ms
                                                                                      min:
        max:
                                              7.38ms
                                                                                      avg:
        approx. 95 percentile:
                                              2.73ms
                                                                                                                         211.08ms
                                                                                      max:
                                                                                                                          83.34ms
                                                                                      approx. 95 percentile:
Threads fairness:
   events (avg/stddev): 1250.0000/2.18 execution time (avg/stddev): 3.3828/0.00
                                                                             Threads fairness:
                                                                                 events (avg/stddev): 78.1250/5.24
                                                                                 execution time (avg/stddev): 2.9395/0.01
CPU Test 0 End: 2018-05-17 02:04:28.491192
CPU Test 1 Start: 2018-05-17 02:04:29.492534
                                                                             Thread Test 1 End: 2018-05-17 02:05:50.672711
                                                                             Thread Test 2 Start: 2018-05-17 02:05:51.673996
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                             sysbench 0.4.12: multi-threaded system evaluation benchmark
Running the test with following options:
Number of threads: 8
                                                                             Running the test with following options:
                                                                             Number of threads: 128
Doing CPU performance benchmark
                                                                             Doing thread subsystem performance test
                                                                             Thread yields per test: 1000 Locks used: 8
Threads started!
Done.
                                                                             Threads started!
                                                                             Done.
Maximum prime number checked in CPU test: 20000
                                                                             Test execution summary:
Test execution summary:
                                                                                 total time:
                                                                                                                     2.61885
                                       3.3860s
                                                                                 total number of events:
    total time:
                                                                                                                     10000
                                                                                 total time taken by event execution: 331.7927
    total number of events:
    total time taken by event execution: 27.0736
                                                                                 per-request statistics:
    per-request statistics:
                                                                                                                           0.40ms
                                                                                     min:
                                                                                                                          33.18ms
                                              2.50ms
        min:
                                                                                      avg:
                                                                                                                         250.70ms
        avg:
                                             2.71ms
                                                                                      max:
         max:
                                              7.15ms
                                                                                      approx. 95 percentile:
                                                                                                                         111.92ms
        approx. 95 percentile:
                                              2.73ms
                                                                             Threads fairness:
                                                                                 events (avg/stddev):
Threads fairness:
                                                                                 execution time (avg/stddev): 2.5921/0.02
    events (avg/stddev):
                                1250.0000/2.12
    execution time (avg/stddev): 3.3842/0.00
                                                                             Thread Test 2 End: 2018-05-17 02:05:54.299371
CPU Test 1 End: 2018-05-17 02:04:32.885148
                                                                             Thread Test 3 Start: 2018-05-17 02:05:55.300598
CPU Test 2 Start: 2018-05-17 02:04:33.886449
                                                                             sysbench 0.4.12: multi-threaded system evaluation benchmark
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                             Running the test with following options:
Running the test with following options:
                                                                             Number of threads: 128
Number of threads: 8
                                                                             Doing thread subsystem performance test
Doing CPU performance benchmark
                                                                             Thread yields per test: 1000 Locks used: 8
                                                                             Threads started!
Threads started!
                                                                             Done.
Done.
Maximum prime number checked in CPU test: 20000
                                                                             Test execution summary:
                                                                                 total time:
                                                                                                                     2.9203s
                                                                                 total number of events:
                                                                                                                     10000
                                                                                 total time taken by event execution: 371.7417
Test execution summary:
                                                                                 per-request statistics:
    total time:
                                       3.3840s
    total number of events:
                                        10000
                                                                                      min:
                                                                                                                           0.39ms
    total time taken by event execution: 27.0569
                                                                                      avg:
                                                                                                                          37.17ms
    per-request statistics:
                                                                                                                         336.45ms
                                                                                      max:
                                                                                      approx. 95 percentile:
                                                                                                                         85.51ms
                                              2.71ms
        avg:
                                              8.61ms
                                                                             Threads fairness:
        max:
        approx. 95 percentile:
                                                                                 events (avg/stddev): 78.1250/4.81
```

2.73ms

execution time (avg/stddev): 2.9042/0.01 Threads fairness: 1250.0000/2.50 Thread Test 3 End: 2018-05-17 02:05:58.227605 events (avg/stddev): execution time (avg/stddev): 3.3821/0.00 Thread Test 4 Start: 2018-05-17 02:05:59.228817 sysbench 0.4.12: multi-threaded system evaluation benchmark CPU Test 2 End: 2018-05-17 02:04:37.276857 CPU Test 3 Start: 2018-05-17 02:04:38.278133 Running the test with following options: sysbench 0.4.12: multi-threaded system evaluation benchmark Number of threads: 128 Running the test with following options: Doing thread subsystem performance test Number of threads: 8 Thread yields per test: 1000 Locks used: 8 Threads started! Doing CPU performance benchmark Done. Threads started! Test execution summary: Done. total time: 2.9312s Maximum prime number checked in CPU test: 20000 total number of events: 10000 total time taken by event execution: 373.0844 per-request statistics: Test execution summary: 0.48ms min: total time: 3.3829s avg: 37.31ms total number of events: 176.26ms max: total time taken by event execution: 27.0465 approx. 95 percentile: 89.20ms per-request statistics: 2.47ms Threads fairness: min: 78.1250/5.22 avg: 2.70ms events (avg/stddev): execution time (avg/stddev): 2.9147/0.01 8.40ms max: approx. 95 percentile: 2.73ms Thread Test 4 End: 2018-05-17 02:06:02.162920 Threads fairness: Thread Test 5 Start: 2018-05-17 02:06:03.164192 1250.0000/2.00 sysbench 0.4.12: multi-threaded system evaluation benchmark events (avg/stddev): execution time (avg/stddev): 3.3808/0.00 Running the test with following options: CPU Test 3 End: 2018-05-17 02:04:41.667508 Number of threads: 128 CPU Test 4 Start: 2018-05-17 02:04:42.668883 sysbench 0.4.12: multi-threaded system evaluation benchmark Doing thread subsystem performance test Thread yields per test: 1000 Locks used: 8 Running the test with following options: Threads started! Number of threads: 8 Done. Doing CPU performance benchmark Test execution summary: Threads started! total time: 2.6097s total number of events: 10000 total time taken by event execution: 330.8394 Maximum prime number checked in CPU test: 20000 per-request statistics: 0.41ms min: avg: 33.08ms Test execution summary: 229.90ms max: approx. 95 percentile: total number of events: total time: 3.3883s 98.96ms 10000 total time taken by event execution: 27.0935 Threads fairness: events (avg/stddev): 78.1250/7.72 per-request statistics: min: 2.48ms execution time (avg/stddev): 2.5847/0.01 2.71ms avg: 7.34ms Thread Test 5 End: 2018-05-17 02:06:05.780577 max: approx. 95 percentile: Thread Test 6 Start: 2018-05-17 02:06:06.781793 2.73ms sysbench 0.4.12: multi-threaded system evaluation benchmark Threads fairness: events (avg/stddev): Running the test with following options: 1250.0000/1.73 execution time (avg/stddev): 3.3867/0.00 Number of threads: 128 CPU Test 4 End: 2018-05-17 02:04:46.063278 Doing thread subsystem performance test CPU Test 5 Start: 2018-05-17 02:04:47.064547 Thread yields per test: 1000 Locks used: 8 sysbench 0.4.12: multi-threaded system evaluation benchmark Threads started! Done. Running the test with following options: Number of threads: 8 Test execution summary: Doing CPU performance benchmark total time: 2.8503s total number of events: 10000 total time taken by event execution: 361.9268 Threads started! Done. per-request statistics: min: 0.45ms 36.19ms Maximum prime number checked in CPU test: 20000 avg: 218.37ms approx. 95 percentile: 87.98ms Test execution summary: total time: 3.3877s Threads fairness: events (avg/stddev): total number of events: 78.1250/6.70 10000 execution time (avg/stddev): 2.8276/0.01 total time taken by event execution: 27.0903

Running the test with following options:
Threads fairness: Number of threads: 128

Thread Test 6 End: 2018-05-17 02:06:09.638523

Thread Test 7 Start: 2018-05-17 02:06:10.639784

sysbench 0.4.12: multi-threaded system evaluation benchmark

2.51ms

2.71ms

7.21ms

2.73ms

per-request statistics:

approx. 95 percentile:

min:

avg:

max:

```
events (avg/stddev):
                                 1250.0000/2.18
   execution time (avg/stddev): 3.3863/0.00
                                                                             Doing thread subsystem performance test
                                                                              Thread yields per test: 1000 Locks used: 8
CPU Test 5 End: 2018-05-17 02:04:50.458683
                                                                             Threads started!
CPU Test 6 Start: 2018-05-17 02:04:51.459937
sysbench 0.4.12: multi-threaded system evaluation benchmark
Running the test with following options:
                                                                             Test execution summary:
Number of threads: 8
                                                                                 total time:
                                                                                                                      2.8403s
                                                                                 total number of events:
                                                                                                                      10000
Doing CPU performance benchmark
                                                                                 total time taken by event execution: 360.8807
                                                                                 per-request statistics:
Threads started!
                                                                                                                           0.42ms
                                                                                      min:
                                                                                                                           36.09ms
                                                                                      avg:
                                                                                                                         204.13ms
                                                                                      max:
Maximum prime number checked in CPU test: 20000
                                                                                      approx. 95 percentile:
                                                                                                                          83.81ms
                                                                             Threads fairness:
Test execution summary:
                                                                                 events (avg/stddev):
                                                                                                               78.1250/6.55
   total time:
                                       3.4041s
                                                                                 execution time (avg/stddev): 2.8194/0.01
   total number of events:
                                       10000
                                                                              Thread Test 7 End: 2018-05-17 02:06:13.486715
   total time taken by event execution: 27.2194
                                                                              Thread Test 8 Start: 2018-05-17 02:06:14.487991
   per-request statistics:
                                                                             sysbench 0.4.12: multi-threaded system evaluation benchmark
        min:
        avg:
                                             2.72ms
                                                                             Running the test with following options:
                                            18.72ms
        max:
        approx. 95 percentile:
                                             2.73ms
                                                                             Number of threads: 128
Threads fairness:
                                                                             Doing thread subsystem performance test
   events (avg/stddev): 1250.0000/7.18 execution time (avg/stddev): 3.4024/0.00
                                                                              Thread yields per test: 1000 Locks used: 8
                                                                              Threads started!
CPU Test 6 End: 2018-05-17 02:04:54.870699
CPU Test 7 Start: 2018-05-17 02:04:55.871981
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                             Test execution summary:
                                                                                 total time:
                                                                                                                      2.9684s
                                                                                 total number of events:
Running the test with following options:
                                                                                                                      10000
Number of threads: 8
                                                                                  total time taken by event execution: 376.5698
                                                                                 per-request statistics:
Doing CPU performance benchmark
                                                                                      min:
                                                                                                                          37.66ms
                                                                                      avg:
                                                                                                                         199.69ms
Threads started!
                                                                                      max:
                                                                                      approx. 95 percentile:
Done.
                                                                                                                          84.07ms
Maximum prime number checked in CPU test: 20000
                                                                             Threads fairness:
                                                                                 events (avg/stddev): 78.1250/5.29
                                                                                  execution time (avg/stddev): 2.9420/0.01
Test execution summary:
                                                                              Thread Test 8 End: 2018-05-17 02:06:17.463071
   total time:
                                      3.4022s
   total number of events:
                                                                              Thread Test 9 Start: 2018-05-17 02:06:18.464321
                                       10000
   total time taken by event execution: 27.2042
                                                                             sysbench 0.4.12: multi-threaded system evaluation benchmark
   per-request statistics:
                                                                             Running the test with following options:
        min:
        avg:
                                              2.72ms
                                                                             Number of threads: 128
                                             19.41ms
        max:
        approx. 95 percentile:
                                             2.73ms
                                                                             Doing thread subsystem performance test
                                                                              Thread yields per test: 1000 Locks used: 8
                                                                             Threads started!
Threads fairness:
   events (avg/stddev): 1250.0000/6.40 execution time (avg/stddev): 3.4005/0.00
                                                                             Done.
CPU Test 7 End: 2018-05-17 02:04:59.280936
                                                                             Test execution summary:
CPU Test 8 Start: 2018-05-17 02:05:00.282178
                                                                                 total time:
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                                 total number of events:
                                                                                                                      10000
                                                                                 total time taken by event execution: 363.6801
Running the test with following options:
                                                                                 per-request statistics:
Number of threads: 8
                                                                                      min:
                                                                                                                           0.40ms
                                                                                                                          36.37ms
                                                                                      avg:
Doing CPU performance benchmark
                                                                                                                          208.34ms
                                                                                      approx. 95 percentile:
                                                                                                                           91.74ms
Threads started!
                                                                              Threads fairness:
Done.
                                                                                 events (avg/stddev):
                                                                                                                78.1250/6.52
                                                                                 execution time (avg/stddev): 2.8413/0.01
Maximum prime number checked in CPU test: 20000
                                                                             Thread Test 9 End: 2018-05-17 02:06:21.335560
Test execution summary:
   total time:
                                                                              File Test 0 Start: 2018-05-17 02:06:22.336896
   total number of events:
                                      10000
                                                                             sysbench 0.4.12: multi-threaded system evaluation benchmark
   total time taken by event execution: 27.0765
                                                                             Running the test with following options:
   per-request statistics:
                                                                             Number of threads: 8
        min:
                                              2.57ms
        avg:
                                              2.71ms
                                              6.73ms
                                                                             Extra file open flags: 0
        approx. 95 percentile:
                                                                             128 files, 128Mb each
                                              2.73ms
                                                                             16Gb total file size
                                                                              Block size 16Kb
Threads fairness:
                                                                             Number of random requests for random IO: 10000
   events (avg/stddev):
                                 1250.0000/3.57
                                                                             Read/Write ratio for combined random IO test: 1.50
   execution time (avg/stddev): 3.3846/0.00
```

```
Periodic FSYNC enabled, calling fsync() each 100 requests.
CPU Test 8 End: 2018-05-17 02:05:03.675050
                                                                             Calling fsync() at the end of test, Enabled.
CPU Test 9 Start: 2018-05-17 02:05:04.676367
                                                                             Using synchronous I/O mode
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                             Doing random r/w test
                                                                              Threads started!
Running the test with following options:
Number of threads: 8
                                                                             Operations performed: 6031 Read, 4016 Write, 12810 Other = 22857 Total
                                                                             Read 94.234Mb Written 62.75Mb Total transferred 156.98Mb (3.4817Mb/sec)
Doing CPU performance benchmark
                                                                               222.83 Requests/sec executed
Threads started!
                                                                             Test execution summary:
Done.
                                                                                 total time:
                                                                                                                      45.0878s
                                                                                 total number of events:
Maximum prime number checked in CPU test: 20000
                                                                                                                      10047
                                                                                 total time taken by event execution: 65.8059
                                                                                 per-request statistics:
Test execution summary:
                                                                                      min:
                                                                                                                            0.00ms
                                                                                                                            6.55ms
   total time:
                                       3.39435
                                                                                      avg:
   total number of events:
                                       10000
                                                                                      max:
                                                                                                                         355.50ms
   total time taken by event execution: 27.1380
                                                                                      approx. 95 percentile:
                                                                                                                           52.07ms
   per-request statistics:
                                                                             Threads fairness:
                                              2.71ms
                                                                                 events (avg/stddev):
                                                                                                                1255.8750/101.28
        avg:
                                                                                 execution time (avg/stddev): 8.2257/0.57
                                             10.00ms
        max:
        approx. 95 percentile:
                                             2.73ms
                                                                              File Test 0 End: 2018-05-17 02:10:25.441956
Threads fairness:
                                                                             sysbench 0.4.12: multi-threaded system evaluation benchmark
   events (avg/stddev):
                                 1250.0000/3.16
   execution time (avg/stddev): 3.3923/0.00
                                                                             Running the test with following options:
                                                                             Number of threads: 8
CPU Test 9 End: 2018-05-17 02:05:08.077670
                                                                             Extra file open flags: 0
                                                                             128 files, 128Mb each
Memory Test 0 Start: 2018-05-17 02:05:09.079005
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                              16Gb total file size
                                                                             Block size 16Kb
Running the test with following options:
                                                                             Number of random requests for random IO: 10000
Number of threads: 8
                                                                             Read/Write ratio for combined random IO test: 1.50
                                                                              Periodic FSYNC enabled, calling fsync() each 100 requests.
Doing memory operations speed test
                                                                             Calling fsync() at the end of test, Enabled.
Memory block size: 1K
                                                                             Using synchronous I/O mode
                                                                             Doing random r/w test
Memory transfer size: 10240M
                                                                             Threads started!
                                                                             Done.
Memory operations type: write
Memory scope type: global
                                                                             Operations performed: 6084 Read, 4051 Write, 12810 Other = 22945 Total
                                                                              Read 95.062Mb Written 63.297Mb Total transferred 158.36Mb (4.8073Mb/sec)
Threads started!
                                                                               307.67 Requests/sec executed
Operations performed: 10485760 (4179840.57 ops/sec)
                                                                             Test execution summary:
                                                                                 total time:
                                                                                                                      32.94135
                                                                                 total number of events:
10240.00 MB transferred (4081.88 MB/sec)
                                                                                                                      10135
                                                                                 total time taken by event execution: 4.6232
                                                                                 per-request statistics:
Test execution summary:
                                                                                      min:
                                                                                                                           0.00ms
   total time:
                                       2.5087s
                                                                                                                            0.46ms
                                                                                      avg:
                                                                                                                         107.32ms
   total number of events:
                                       10485760
                                                                                      max:
   total time taken by event execution: 10.2844
                                                                                      approx. 95 percentile:
                                                                                                                            0.05ms
   per-request statistics:
        min:
                                              0.00ms
                                                                             Threads fairness:
                                              0.00ms
                                                                                 events (avg/stddev):
                                                                                                                1266.8750/141.86
        avg:
                                             15.32ms
                                                                                 execution time (avg/stddev): 0.5779/0.11
        approx. 95 percentile:
                                              0.00ms
                                                                              File Test 2 Start: 2018-05-17 02:11:00.389341
Threads fairness:
                                                                             sysbench 0.4.12: multi-threaded system evaluation benchmark
   events (avg/stddev):
                                 1310720.0000/13446.82
   execution time (avg/stddev): 1.2855/0.01
                                                                             Running the test with following options:
                                                                             Number of threads: 8
Memory Test 0 End: 2018-05-17 02:05:11.594712
Memory Test 1 Start: 2018-05-17 02:05:12.596015
                                                                              Extra file open flags: 0
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                             128 files, 128Mb each
                                                                              16Gb total file size
                                                                             Block size 16Kb
Running the test with following options:
Number of threads: 8
                                                                             Number of random requests for random IO: 10000
                                                                             Read/Write ratio for combined random IO test: 1.50
Doing memory operations speed test
                                                                             Periodic FSYNC enabled, calling fsync() each 100 requests.
Memory block size: 1K
                                                                             Calling fsync() at the end of test, Enabled.
                                                                             Using synchronous I/O mode
Memory transfer size: 10240M
                                                                             Doing random r/w test
                                                                              Threads started!
                                                                             Done.
Memory operations type: write
Memory scope type: global
                                                                             Operations performed: 6095 Read, 4060 Write, 12803 Other = 22958 Total
Threads started!
Done.
                                                                             Read 95.234Mb Written 63.438Mb Total transferred 158.67Mb (4.5562Mb/sec)
                                                                               291.60 Requests/sec executed
Operations performed: 10485760 (4247943.19 ops/sec)
                                                                              Test execution summary:
10240.00 MB transferred (4148.38 MB/sec)
                                                                                 total time:
                                                                                                                      34.8254s
                                                                                 total number of events:
                                                                                                                      10155
```

total time taken by event execution: 11.2681

```
Test execution summary:
                                                                                   per-request statistics:
                                                                                                                              0.00ms
   total time:
                                        2.46845
                                                                                        min:
                                                                                        avg:
   total number of events:
                                        10485760
                                                                                                                              1.11ms
   total time taken by event execution: 9.7298
                                                                                        max:
                                                                                                                            131.55ms
   per-request statistics:
                                                                                        approx. 95 percentile:
                                                                                                                              0.09ms
                                                                               Threads fairness:
        avg:
                                                                                   events (avg/stddev):
                                              1.98ms
                                                                                                                1269.3750/104.64
        max:
                                                                                   execution time (avg/stddev): 1.4085/0.15
        approx. 95 percentile:
                                               0.00ms
Threads fairness:
                                                                               File Test 2 End: 2018-05-17 02:11:35.222629
   events (avg/stddev): 1310720.0000/7263.33
                                                                               File Test 3 Start: 2018-05-17 02:11:36.223755
   execution time (avg/stddev): 1.2162/0.00
                                                                               sysbench 0.4.12: multi-threaded system evaluation benchmark
Memory Test 1 End: 2018-05-17 02:05:15.070928
                                                                               Running the test with following options:
Memory Test 2 Start: 2018-05-17 02:05:16.072185
                                                                               Number of threads: 8
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                               Extra file open flags: 0
Running the test with following options:
                                                                               128 files, 128Mb each
Number of threads: 8
                                                                               16Gb total file size
                                                                               Block size 16Kb
                                                                               Number of random requests for random IO: 10000
Doing memory operations speed test
Memory block size: 1K
                                                                               Read/Write ratio for combined random IO test: 1.50
                                                                               Periodic FSYNC enabled, calling fsync() each 100 requests.
                                                                               Calling fsync() at the end of test, Enabled.
Memory transfer size: 10240M
                                                                               Using synchronous I/O mode
Memory operations type: write
                                                                               Doing random r/w test
Memory scope type: global
                                                                               Threads started!
Threads started!
                                                                               Done.
                                                                               Operations performed: 6060 Read, 4039 Write, 12802 Other = 22901 Total
Operations performed: 10485760 (4217612.95 ops/sec)
                                                                               Read 94.688Mb Written 63.109Mb Total transferred 157.8Mb (4.7695Mb/sec)
                                                                                305.25 Requests/sec executed
10240.00 MB transferred (4118.76 MB/sec)
                                                                               Test execution summary:
                                                                                   total time:
                                                                                                                       33.0843s
                                                                                   total number of events:
Test execution summary:
                                                                                                                        10099
   total time:
                                                                                   total time taken by event execution: 4.7533
   total number of events:
                                        10485760
                                                                                   per-request statistics:
   total time taken by event execution: 9.7312
                                                                                                                              0.00ms
                                                                                        min:
   per-request statistics:
                                                                                                                              0.47ms
                                                                                        avg:
                                               0.00ms
                                                                                                                             74.39ms
        min:
                                                                                        max:
                                                                                        approx. 95 percentile:
        avg:
                                               0.00ms
                                                                                                                              0.06ms
        max:
                                               3.23ms
        approx. 95 percentile:
                                                                               Threads fairness:
                                               0.00ms
                                                                                   events (avg/stddev):
                                                                                                                 1262.3750/107.45
                                                                                   execution time (avg/stddev): 0.5942/0.13
Threads fairness:
   events (avg/stddev): 1310720.0000/7972.10 execution time (avg/stddev): 1.2164/0.00
                                                                               File Test 3 End: 2018-05-17 02:12:09.316312
                                                                               File Test 4 Start: 2018-05-17 02:12:10.317703
Memory Test 2 End: 2018-05-17 02:05:18.562144
                                                                               sysbench 0.4.12: multi-threaded system evaluation benchmark
Memory Test 3 Start: 2018-05-17 02:05:19.563458
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                               Running the test with following options:
                                                                               Number of threads: 8
Running the test with following options:
Number of threads: 8
                                                                               Extra file open flags: 0
                                                                               128 files, 128Mb each
                                                                               16Gb total file size
Doing memory operations speed test
Memory block size: 1K
                                                                               Block size 16Kb
                                                                               Number of random requests for random IO: 10000
Memory transfer size: 10240M
                                                                               Read/Write ratio for combined random IO test: 1.50
                                                                               Periodic FSYNC enabled, calling fsync() each 100 requests.
Memory operations type: write
                                                                               Calling fsync() at the end of test, Enabled.
Memory scope type: global
                                                                               Using synchronous I/O mode
                                                                               Doing random r/w test
Threads started!
Done.
                                                                               Threads started!
                                                                               Done.
Operations performed: 10485760 (4230733.23 ops/sec)
                                                                               Operations performed: 6061 Read, 4037 Write, 12812 Other = 22910 Total
10240.00 MB transferred (4131.58 MB/sec)
                                                                               Read 94.703Mb Written 63.078Mb Total transferred 157.78Mb (4.5688Mb/sec)
                                                                                 292.40 Requests/sec executed
Test execution summary:
                                                                               Test execution summary:
   total time:
                                        2.4785s
                                                                                   total time:
                                                                                                                       34.53485
   total number of events:
                                                                                   total number of events:
                                        10485760
                                                                                                                       10098
   total time taken by event execution: 9.8687
                                                                                   total time taken by event execution: 15.4833
   per-request statistics:
                                                                                   per-request statistics:
                                                                                       min:
        avg:
                                              0.00ms
                                                                                       avg:
                                                                                                                              1.53ms
                                               4.98ms
                                                                                                                           140.55ms
        max:
                                                                                        max:
                                                                                        approx. 95 percentile:
        approx. 95 percentile:
                                              0.00ms
                                                                                                                              0.10ms
Threads fairness:
                                                                               Threads fairness:
                                                                                   events (avg/stddev): 1262.2500/75.76 execution time (avg/stddev): 1.9354/0.26
   events (avg/stddev): 1310720.0000/4487.65 execution time (avg/stddev): 1.2336/0.00
Memory Test 3 End: 2018-05-17 02:05:22.048438
                                                                               File Test 4 End: 2018-05-17 02:12:44.860937
Memory Test 4 Start: 2018-05-17 02:05:23.049731
                                                                               File Test 5 Start: 2018-05-17 02:12:45.862272
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                               sysbench 0.4.12: multi-threaded system evaluation benchmark
```

```
Running the test with following options:
                                                                             Running the test with following options:
Number of threads: 8
                                                                             Number of threads: 8
Doing memory operations speed test
                                                                             Extra file open flags: 0
Memory block size: 1K
                                                                             128 files, 128Mb each
                                                                             16Gb total file size
Memory transfer size: 10240M
                                                                             Block size 16Kb
                                                                             Number of random requests for random IO: 10000
Memory operations type: write
                                                                             Read/Write ratio for combined random IO test: 1.50
Memory scope type: global
                                                                             Periodic FSYNC enabled, calling fsync() each 100 requests.
Threads started!
                                                                             Calling fsync() at the end of test, Enabled.
                                                                             Using synchronous I/O mode
Done.
                                                                             Doing random r/w test
Operations performed: 10485760 (4218799.51 ops/sec)
                                                                             Threads started!
                                                                             Done.
10240.00 MB transferred (4119.92 MB/sec)
                                                                             Operations performed: 6070 Read, 4047 Write, 12807 Other = 22924 Total
                                                                             Read 94.844Mb Written 63.234Mb Total transferred 158.08Mb (4.6825Mb/sec)
Test execution summary:
                                                                               299.68 Requests/sec executed
                                       2.4855s
   total time:
   total number of events:
                                      10485760
                                                                             Test execution summary:
   total time taken by event execution: 9.9321
                                                                                 total number of events:
                                                                                 total time:
                                                                                                                     33.7592s
   per-request statistics:
                                                                                                                     10117
                                                                                 total time taken by event execution: 4.5706
        min:
                                              0.00ms
                                             0.00ms
        avg:
                                                                                 per-request statistics:
                                                                                                                          0.00ms
        max:
                                             3.36ms
                                                                                      min:
        approx. 95 percentile:
                                              0.00ms
                                                                                                                          0.45ms
                                                                                      avg:
                                                                                      max:
                                                                                                                         76.87ms
Threads fairness:
                                                                                      approx. 95 percentile:
                                                                                                                          0.06ms
   events (avg/stddev): 1310720.0000/4580.65
   execution time (avg/stddev): 1.2415/0.00
                                                                             Threads fairness:
                                                                                 events (avg/stddev):
                                                                                                             1264.6250/106.66
                                                                                 execution time (avg/stddev): 0.5713/0.08
Memory Test 4 End: 2018-05-17 02:05:25.541698
Memory Test 5 Start: 2018-05-17 02:05:26.542945
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                             File Test 5 End: 2018-05-17 02:13:19.629930
                                                                             File Test 6 Start: 2018-05-17 02:13:20.631270
                                                                             sysbench 0.4.12: multi-threaded system evaluation benchmark
Running the test with following options:
Number of threads: 8
                                                                             Running the test with following options:
                                                                             Number of threads: 8
Doing memory operations speed test
Memory block size: 1K
                                                                             Extra file open flags: 0
Memory transfer size: 10240M
                                                                             128 files, 128Mb each
                                                                             16Gb total file size
Memory operations type: write
                                                                             Block size 16Kb
Memory scope type: global
                                                                             Number of random requests for random IO: 10000
Threads started!
                                                                             Read/Write ratio for combined random IO test: 1.50
                                                                             Periodic FSYNC enabled, calling fsync() each 100 requests.
Done.
                                                                             Calling fsync() at the end of test, Enabled.
Operations performed: 10485760 (4231489.10 ops/sec)
                                                                             Using synchronous I/O mode
                                                                             Doing random r/w test
10240.00 MB transferred (4132.31 MB/sec)
                                                                             Threads started!
                                                                             Done.
                                                                             Operations performed: 6049 Read, 4028 Write, 12813 Other = 22890 Total
Test execution summary:
                                                                             Read 94.516Mb Written 62.938Mb Total transferred 157.45Mb (3.9662Mb/sec)
   total time:
                                       2.4780s
   total number of events:
                                                                               253.84 Requests/sec executed
                                       10485760
   total time taken by event execution: 10.3377
   per-request statistics:
                                                                             Test execution summary:
                                              0.00ms
        min:
                                                                                 total time:
                                                                                 total number of events:
                                                                                                                     39.6986s
        avg:
                                             0.00ms
                                                                                                                     10077
                                             1.35ms
                                                                                 total time taken by event execution: 41.2130
        max:
                                                                                 per-request statistics:
        approx. 95 percentile:
                                             0.00ms
                                                                                     min:
                                                                                                                          0.00ms
                                                                                                                          4.09ms
Threads fairness:
                                                                                      avg:
   events (avg/stddev): 1310720.0000/4061.01
                                                                                      max:
                                                                                                                         206.47ms
   execution time (avg/stddev): 1.2922/0.00
                                                                                      approx. 95 percentile:
                                                                                                                         35.15ms
Memory Test 5 End: 2018-05-17 02:05:29.027461
                                                                             Threads fairness:
                                                                                 events (avg/stddev): 1259.6250/79.39 execution time (avg/stddev): 5.1516/0.34
Memory Test 6 Start: 2018-05-17 02:05:30.028751
sysbench 0.4.12: multi-threaded system evaluation benchmark
Running the test with following options:
                                                                             File Test 6 End: 2018-05-17 02:14:00.339281
Number of threads: 8
                                                                             File Test 7 Start: 2018-05-17 02:14:01.340748
                                                                             sysbench 0.4.12: multi-threaded system evaluation benchmark
Doing memory operations speed test
Memory block size: 1K
                                                                             Running the test with following options:
                                                                             Number of threads: 8
Memory transfer size: 10240M
                                                                             Extra file open flags: 0
                                                                             128 files, 128Mb each
Memory operations type: write
Memory scope type: global
                                                                             16Gb total file size
Threads started!
                                                                             Block size 16Kb
                                                                             Number of random requests for random IO: 10000
Done.
                                                                             Read/Write ratio for combined random IO test: 1.50
Operations performed: 10485760 (4243450.40 ops/sec)
                                                                             Periodic FSYNC enabled, calling fsync() each 100 requests.
                                                                             Calling fsync() at the end of test, Enabled.
                                                                             Using synchronous I/O mode
10240.00 MB transferred (4143.99 MB/sec)
```

```
Doing random r/w test
                                                                              Threads started!
Test execution summary:
                                                                              Done.
                                       2.4710s
   total time:
   total number of events:
                                        10485760
                                                                              Operations performed: 6049 Read, 4028 Write, 12805 Other = 22882 Total
                                                                              Read 94.516Mb Written 62.938Mb Total transferred 157.45Mb (4.346Mb/sec)
   total time taken by event execution: 9.8805
   per-request statistics:
                                                                                278.15 Requests/sec executed
                                              0.00ms
        min:
        avg:
                                              0.00ms
                                                                              Test execution summary:
                                              4.38ms
                                                                                 total time:
        max:
                                                                                                                      36.22935
                                                                                  total number of events:
        approx. 95 percentile:
                                              0.00ms
                                                                                                                     10077
                                                                                 total time taken by event execution: 18.6402
                                                                                 per-request statistics:
Threads fairness:
                                 1310720.0000/5769.80
   events (avg/stddev):
   execution time (avg/stddev): 1.2351/0.00
                                                                                                                            1.85ms
                                                                                      avg:
                                                                                                                         178.68ms
                                                                                      max:
Memory Test 6 End: 2018-05-17 02:05:32.506156
                                                                                      approx. 95 percentile:
                                                                                                                            0.24ms
Memory Test 7 Start: 2018-05-17 02:05:33.507468
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                              Threads fairness:
                                                                                 events (avg/stddev): 1259.6250/148.54 execution time (avg/stddev): 2.3300/0.31
Running the test with following options:
Number of threads: 8
                                                                              File Test 7 End: 2018-05-17 02:14:37.577731
                                                                              File Test 8 Start: 2018-05-17 02:14:38.579088
Doing memory operations speed test
                                                                              sysbench 0.4.12: multi-threaded system evaluation benchmark
Memory block size: 1K
Memory transfer size: 10240M
                                                                              Running the test with following options:
                                                                              Number of threads: 8
Memory operations type: write
Memory scope type: global
                                                                              Extra file open flags: 0
Threads started!
                                                                              128 files, 128Mb each
                                                                              16Gb total file size
                                                                              Block size 16Kb
Operations performed: 10485760 (4214504.89 ops/sec)
                                                                              Number of random requests for random IO: 10000
                                                                              Read/Write ratio for combined random IO test: 1.50
10240.00 MB transferred (4115.73 MB/sec)
                                                                              Periodic FSYNC enabled, calling fsync() each 100 requests.
                                                                              Calling fsync() at the end of test, Enabled.
                                                                              Using synchronous I/O mode
Test execution summary:
                                                                              Doing random r/w test
   total time:
                                       2.4880s
                                                                              Threads started!
                                       10485760
   total number of events:
                                                                              Done.
   total time taken by event execution: 9.9060
   per-request statistics:
                                                                              Operations performed: 6065 Read, 4042 Write, 12815 Other = 22922 Total
        min:
                                              0.00ms
                                                                              Read 94.766Mb Written 63.156Mb Total transferred 157.92Mb (4.6091Mb/sec)
                                              0.00ms
                                                                               294.98 Requests/sec executed
        avg:
                                              0.60ms
        max:
        approx. 95 percentile:
                                              0.00ms
                                                                              Test execution summary:
                                                                                 total time:
                                                                                                                      34.2629s
                                                                                 total number of events:
Threads fairness:
                                                                                                                     10107
                                 1310720.0000/3633.04
                                                                                  total time taken by event execution: 4.9186
   events (avg/stddev):
   execution time (avg/stddev): 1.2383/0.00
                                                                                 per-request statistics:
                                                                                      min:
                                                                                                                            0.00ms
Memory Test 7 End: 2018-05-17 02:05:36.001902
                                                                                      avg:
                                                                                                                            0.49ms
                                                                                      max:
                                                                                                                           65.12ms
                                                                                      approx. 95 percentile:
                                                                              Threads fairness:
                                                                                 events (avg/stddev): 1263.3750/100.37
                                                                                 execution time (avg/stddev): 0.6148/0.11
                                                                              File Test 8 End: 2018-05-17 02:15:12.849524
                                                                              File Test 9 Start: 2018-05-17 02:15:13.850938
                                                                              sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                              Running the test with following options:
                                                                              Number of threads: 8
                                                                              Extra file open flags: 0
                                                                              128 files, 128Mb each
                                                                              16Gb total file size
                                                                              Block size 16Kb
                                                                              Number of random requests for random IO: 10000
                                                                              Read/Write ratio for combined random IO test: 1.50
                                                                              Periodic FSYNC enabled, calling fsync() each 100 requests.
                                                                              Calling fsync() at the end of test, Enabled.
                                                                              Using synchronous I/O mode
                                                                              Doing random r/w test
                                                                              Threads started!
                                                                              Done.
                                                                              Operations performed: 6066 Read, 4039 Write, 12805 Other = 22910 Total
                                                                              Read 94.781Mb Written 63.109Mb Total transferred 157.89Mb (4.4562Mb/sec)
                                                                               285.20 Requests/sec executed
                                                                              Test execution summary:
                                                                                 total time:
```

total number of events:

per-request statistics:

total time taken by event execution: 13.3813

10105

min: 0.00ms 1.32ms avg: max: 126.67ms approx. 95 percentile: 0.08ms

Threads fairness:

events (avg/stddev): 1263.1250/95.66 execution time (avg/stddev): 1.6727/0.31

File Test 9 End: 2018-05-17 02:15:49.290197