```
Computer Info Complete
                                                                              Thread Test 0 Start: 2018-05-18 00:57:47.000987
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: 128
CPU Test: 4 / 10 complete.
CPU Test: 5 / 10 complete.
                                                                              Doing thread subsystem performance test
CPU Test: 6 / 10 complete.
                                                                              Thread yields per test: 1000 Locks used: 8
CPU Test: 7 / 10 complete.
                                                                              Threads started!
CPU Test: 8 / 10 complete.
CPU Test: 9 / 10 complete.
                                                                              Done.
CPU Test: 10 / 10 complete.
Memory Test: 1 / 10 complete.
                                                                              Test execution summary:
Memory Test: 2 / 10 complete.
                                                                                  total time:
                                                                                  total number of events:
Memory Test: 3 / 10 complete.
                                                                                                                      10000
Memory Test: 4 / 10 complete.
                                                                                  total time taken by event execution: 461.6955
                                                                                  per-request statistics:
Memory Test: 5 / 10 complete.
Memory Test: 6 / 10 complete.
                                                                                      min:
Memory Test: 7 / 10 complete.
                                                                                                                           46.17ms
                                                                                       avg:
Memory Test: 8 / 10 complete.
                                                                                                                          214.89ms
                                                                                       max:
Memory Test: 9 / 10 complete.
                                                                                      approx. 95 percentile:
                                                                                                                         101.12ms
Memory Test: 10 / 10 complete.
Thread Test: 1 / 10 complete.
                                                                              Threads fairness:
                                                                                 events (avg/stddev): 78.1250/4.97
execution time (avg/stddev): 3.6070/0.01
Thread Test: 2 / 10 complete.
Thread Test: 3 / 10 complete.
Thread Test: 4 / 10 complete.
Thread Test: 5 / 10 complete.
                                                                              Thread Test 0 End: 2018-05-18 00:57:50.638742
Thread Test: 6 / 10 complete.
                                                                              Thread Test 1 Start: 2018-05-18 00:57:51.640017
Thread Test: 7 / 10 complete.
                                                                              sysbench 0.4.12: multi-threaded system evaluation benchmark
Thread Test: 8 / 10 complete.
Thread Test: 9 / 10 complete.
                                                                              Running the test with following options:
Thread Test: 10 / 10 complete.
                                                                              Number of threads: 128
File Test: 1 / 10 complete.
File Test: 2 / 10 complete.
                                                                              Doing thread subsystem performance test
File Test: 3 / 10 complete.
                                                                              Thread yields per test: 1000 Locks used: 8
File Test: 4 / 10 complete.
                                                                              Threads started!
File Test: 5 / 10 complete.
File Test: 6 / 10 complete.
File Test: 7 / 10 complete.
File Test: 8 / 10 complete.
                                                                              Test execution summary:
File Test: 9 / 10 complete.
                                                                                  total time:
                                                                                                                     3.49325
                                                                                  total number of events:
File Test: 10 / 10 complete.
                                                                                                                      10000
CPvthon default
                                                                                  total time taken by event execution: 443.2302
                                                                                  per-request statistics:
Linux-4.15.0-20-generic-x86_64-with-debian-9.4
x86_64 x 8 cores
FQDN: d502b4a31820 ( d502b4a31820 )
                                                                                                                           44.32ms
                                                                                      avg:
LAN IPv4: 172.17.0.2
                                                                                                                          215.39ms
                                                                                       max:
                                                                                       approx. 95 percentile: 115.84ms
Package
          Version
-----
                                                                              Threads fairness:
                                                                                  events (avg/stddev): 78.1250/5.97 execution time (avg/stddev): 3.4627/0.01
asn1crypto 0.24.0
asnıcı,,
certifi 2010..
1.11.5
           2018.4.16
chardet
           3.0.4
                                                                              Thread Test 1 End: 2018-05-18 00:57:55.138908
conda
           4.5.4
                                                                              Thread Test 2 Start: 2018-05-18 00:57:56.140217
cryptography 2.2.2
                                                                              sysbench 0.4.12: multi-threaded system evaluation benchmark
     2.8.0rc1
2.6
h5py
idna
                                                                              Running the test with following options:
Keras
            2.1.6
                                                                              Number of threads: 128
         1.14.3
numpy
pip
           10.0.1
                                                                              Doing thread subsystem performance test
psutil
          5.4.5
                                                                              Thread yields per test: 1000 Locks used: 8
pycosat
                                                                              Threads started!
            0.6.3
pycparser 2.18
                                                                              Done.
pyOpenSSL 17.5.0
PySocks
            1.6.8
PvYAML
            3.12
                                                                              Test execution summary:
requests
            2.18.4
                                                                                  total number of events:
                                                                                  total time:
                                                                                                                      3.2858s
ruamel-yaml 0.15.35
                                                                                                                     10000
          1.1.0
scipy
                                                                                  total time taken by event execution: 417.2033
setuptools 39.1.0
                                                                                  per-request statistics:
six 1.11.0
urllib3 1.22
                                                                                      min:
                                                                                       avg:
                                                                                                                           41.72ms
wheel
           0.31.0
                                                                                       max:
                                                                                                                          242.13ms
                                                                                       approx. 95 percentile:
                                                                                                                         111.65ms
Package
          Version
                                                                              Threads fairness:
                                                                                  events (avg/stddev): 78.1250/5.91
asn1crvpto 0.24.0
                                                                                  execution time (avg/stddev): 3.2594/0.01
certifi
            2018.4.16
cffi
            1.11.5
                                                                              Thread Test 2 End: 2018-05-18 00:57:59.432264
chardet
           3.0.4
                                                                              Thread Test 3 Start: 2018-05-18 00:58:00.433475
conda
           4.5.4
                                                                              sysbench 0.4.12: multi-threaded system evaluation benchmark
cryptography 2.2.2
h5py 2.8.0rc1
idna 2.6
                                                                              Running the test with following options:
                                                                              Number of threads: 128
Keras 2.1.6
numpy 1.14.
```

Doing thread subsystem performance test

numpy

1.14.3

pip	10.0.1		Thread yields per test: 1000 Locks used:	8
psutil	5.4.5		Threads started!	
pycosat	0.6.3		Done.	
pycparser	2.18			
py0penSSL PySocks	17.5.0 1.6.8		Test execution summary:	
PyYAML	3.12		total time:	3.5783s
requests	2.18.4		total number of events:	10000
ruamel-yaml			total time taken by event execution:	
scipy	1.1.0		per-request statistics:	
setuptools			min:	0.51ms
six	1.11.0		avg:	45.50ms
urllib3	1.22		max:	252.44ms
wheel	0.31.0		approx. 95 percentile:	97.61ms
			Threads fairness:	
	tart: 2018-05-18 00:56		events (avg/stddev): 78.12	50/4.75
sysbench 0.4	.12: multi-threaded s	ystem evaluation benchmark	execution time (avg/stddev): 3.554	7/0.01
	test with following op	tions:	Thread Test 3 End: 2018-05-18 00:58:04.0	
Number of th	reads: 8		Thread Test 4 Start: 2018-05-18 00:58:05	
Dadaa CDU aa	-£		sysbench 0.4.12: multi-threaded system	evaluation benchmark
Doing CPU pe	rformance benchmark		Dunning the test with following entions.	
Threads star	tod!		Running the test with following options: Number of threads: 128	
Done.	teu:		Number of threads. 126	
bone.			Doing thread subsystem performance test	
Maximum nrim	e number checked in CP	II test: 20000	Thread yields per test: 1000 Locks used:	8
nax mam pr m	e namber enecked in er	0 (631. 2000)	Threads started!	0
			Done.	
Test executi	on summary:			
total ti	•	3.4232s		
total nu	mber of events:	10000	Test execution summary:	
total ti	me taken by event exec	ution: 27.3758	total time:	3.4249s
per-requ	est statistics:		total number of events:	10000
min	:	2.52ms	total time taken by event execution:	435.2929
avg	:	2.74ms	per-request statistics:	
max	:	8.96ms	min:	0.52ms
арр	rox. 95 percentile:	2.73ms	avg:	43.53ms
			max:	246.97ms
Threads fair	ness:		approx. 95 percentile:	100.39ms
events (avg/stddev):	1250.0000/23.41		
executio	n time (avg/stddev):	3.4220/0.00	Threads fairness:	
				50/5.60
	nd: 2018-05-18 00:56:3		execution time (avg/stddev): 3.400	7/0.01
	tart: 2018-05-18 00:56			
sysbench 0.4	.12: multi-threaded s	ystem evaluation benchmark	Thread Test 4 End: 2018-05-18 00:58:08.4	
			Thread Test 5 Start: 2018-05-18 00:58:09	
	test with following op	tions:	sysbench 0.4.12: multi-threaded system	evaluation benchmark
Number of th	reads: 8			
			Running the test with following options:	
Doing CPU pe	rformance benchmark		Number of threads: 128	
Threads star	tedl		Doing thread subsystem performance test	
Done.	ced:		Thread yields per test: 1000 Locks used:	8
bone.			Threads started!	0
Maximum prim	e number checked in CP	U test: 20000	Done.	
p	e namber enconed in er	5 CCCC 2000	56.161	
Test executi	on summary:		Test execution summary:	
total ti	me:	3.4207s	total time:	3.3803s
total nu	mber of events:	10000	total number of events:	10000
total ti	me taken by event exec	ution: 27.3497	total time taken by event execution:	428.2356
per-requ	est statistics:		per-request statistics:	
min	:	2.45ms	min:	0.53ms
avg	:	2.73ms	avg:	42.82ms
max	:	8.83ms	max:	265.73ms
арр	rox. 95 percentile:	2.73ms	approx. 95 percentile:	100.27ms
Threads fair			Threads fairness:	
	avg/stddev):	1250.0000/22.09	· •	50/6.98
executio	n time (avg/stddev):	3.4187/0.00	execution time (avg/stddev): 3.345	6/0.01
	nd: 2018-05-18 00:56:3		Thread Test 5 End: 2018-05-18 00:58:12.8	
	tart: 2018-05-18 00:56		Thread Test 6 Start: 2018-05-18 00:58:13	
syspench 0.4	.ı∠: multi-threaded s	ystem evaluation benchmark	sysbench 0.4.12: multi-threaded system	evaluation benchmark
Dunning the	toot with following on	+ione.	Dunning the test with following entions.	
Running the Number of th	test with following op	cions.	Running the test with following options: Number of threads: 128	
Maniper OT th	redus. o		Number of tiffedus; 126	
Doing CPU po	rformance benchmark		Doing thread subsystem performance test	
zonng cho pe	or mance benefilled K		Thread yields per test: 1000 Locks used:	8
Threads star	ted!		Threads started!	•
Done.			Done.	
			50	
Maximum prim	e number checked in CP	U test: 20000		
. F. 7m			Test execution summary:	
			total time:	3.6056s
Test executi	on summary:		total number of events:	10000

total time: 3.4269s total time taken by event execution: 457.6915 total number of events: 10000 per-request statistics: total time taken by event execution: 27.4019 min: 0.56ms per-request statistics: avg: 45.77ms 201.30ms min: max: approx. 95 percentile: avg: 2.74ms 102.06ms 14.63ms max: approx. 95 percentile: 2.73ms Threads fairness: events (avg/stddev): 78.1250/4.91 execution time (avg/stddev): 3.5757/0.01 Threads fairness: events (avg/stddev): 1250.0000/19.48 execution time (avg/stddev): 3.4252/0.00 Thread Test 6 End: 2018-05-18 00:58:17.451024 Thread Test 7 Start: 2018-05-18 00:58:18.452331 CPU Test 2 End: 2018-05-18 00:56:40.963897 sysbench 0.4.12: multi-threaded system evaluation benchmark CPU Test 3 Start: 2018-05-18 00:56:41.965200 sysbench 0.4.12: multi-threaded system evaluation benchmark Running the test with following options: Number of threads: 128 Running the test with following options: Number of threads: 8 Doing thread subsystem performance test Thread yields per test: 1000 Locks used: 8 Doing CPU performance benchmark Threads started! Threads started! Done. Test execution summary: Maximum prime number checked in CPU test: 20000 total time: 3.2529s total number of events: 10000 total time taken by event execution: 413.0524 Test execution summary: per-request statistics: total time: total number of events: 41.31ms avg: total time taken by event execution: 27.7155 312.04ms max: approx. 95 percentile: per-request statistics: 113.30ms min: 2.50ms avg: 2.77ms Threads fairness: events (avg/stddev): 78.1250/6.83 execution time (avg/stddev): 3.2270/0.01 27.26ms max: approx. 95 percentile: 2.74ms Threads fairness: Thread Test 7 End: 2018-05-18 00:58:21.711446 events (avg/stddev): 1250.0000/39.82 Thread Test 8 Start: 2018-05-18 00:58:22.712741 execution time (avg/stddev): 3.4644/0.00 sysbench 0.4.12: multi-threaded system evaluation benchmark CPU Test 3 End: 2018-05-18 00:56:45.437472 Running the test with following options: CPU Test 4 Start: 2018-05-18 00:56:46.438770 Number of threads: 128 sysbench 0.4.12: multi-threaded system evaluation benchmark Doing thread subsystem performance test Running the test with following options: Thread yields per test: 1000 Locks used: 8 Threads started! Number of threads: 8 Done. Doing CPU performance benchmark Threads started! Test execution summary: total time: 3.4508s total number of events: Maximum prime number checked in CPU test: 20000 total time taken by event execution: 437.5392 per-request statistics: min: 0.51ms Test execution summary: avg: 43.75ms total number of events: total time: 3.4356s max: 253.14ms 10000 approx. 95 percentile: 101.97ms total time taken by event execution: 27.4724 Threads fairness: per-request statistics: min: events (avg/stddev): 78.1250/4.85 2.75ms execution time (avg/stddev): 3.4183/0.01 avg: max: 13.33ms approx. 95 percentile: Thread Test 8 End: 2018-05-18 00:58:26.169748 2.73ms Thread Test 9 Start: 2018-05-18 00:58:27.171029 Threads fairness: sysbench 0.4.12: multi-threaded system evaluation benchmark events (avg/stddev): 1250.0000/31.09 execution time (avg/stddev): 3.4341/0.00 Running the test with following options: Number of threads: 128 CPU Test 4 End: 2018-05-18 00:56:49.880518 CPU Test 5 Start: 2018-05-18 00:56:50.881804 Doing thread subsystem performance test sysbench 0.4.12: multi-threaded system evaluation benchmark Thread yields per test: 1000 Locks used: 8 Threads started! Running the test with following options: Done. Number of threads: 8 Doing CPU performance benchmark Test execution summary: total time: 3.6016s total number of events: Threads started! 10000 Done. total time taken by event execution: 458.2990 per-request statistics: Maximum prime number checked in CPU test: 20000 min: 0.56ms 45.83ms avg: 282.24ms max: Test execution summary: approx. 95 percentile: 97.08ms total time: 3.4318s

Threads fairness:

total number of events:

10000

```
events (avg/stddev):
   total time taken by event execution: 27.4393
                                                                                                               78.1250/5.13
   per-request statistics:
                                                                                 execution time (avg/stddev): 3.5805/0.01
        min:
                                             2.57ms
        avg:
                                             2.74ms
                                                                             Thread Test 9 End: 2018-05-18 00:58:30.779032
                                            12.35ms
        approx. 95 percentile:
                                             2.73ms
                                                                             File Test 0 Start: 2018-05-18 00:58:31.780343
                                                                             sysbench 0.4.12: multi-threaded system evaluation benchmark
Threads fairness:
   events (avg/stddev):
                                 1250.0000/30.00
                                                                             Running the test with following options:
   execution time (avg/stddev): 3.4299/0.00
                                                                             Number of threads: 8
CPU Test 5 End: 2018-05-18 00:56:54.319650
                                                                             Extra file open flags: 0
CPU Test 6 Start: 2018-05-18 00:56:55.320922
                                                                             128 files, 128Mb each
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
                                                                             Read/Write ratio for combined random IO test: 1.50
Number of threads: 8
                                                                             Periodic FSYNC enabled, calling fsync() each 100 requests.
Doing CPU performance benchmark
                                                                             Calling fsync() at the end of test, Enabled.
                                                                             Using synchronous I/O mode
Threads started!
                                                                             Doing random r/w test
                                                                             Threads started!
Done.
                                                                             Done.
Maximum prime number checked in CPU test: 20000
                                                                             Operations performed: 6020 Read, 4009 Write, 12810 Other = 22839 Total
                                                                             Read 94.062Mb Written 62.641Mb Total transferred 156.7Mb (3.0524Mb/sec)
Test execution summary:
                                                                               195.35 Requests/sec executed
   total time:
                                       3.4314s
   total number of events:
                                       10000
                                                                             Test execution summary:
   total time taken by event execution: 27.4366
                                                                                 total time:
   per-request statistics:
                                                                                 total number of events:
        min:
                                                                                 total time taken by event execution: 113.9079
                                             2.52ms
        avg:
                                             2.74ms
                                                                                 per-request statistics:
        max:
                                            12.18ms
                                                                                     min:
                                                                                                                          0.00ms
        approx. 95 percentile:
                                             2.73ms
                                                                                      avg:
                                                                                                                         11.36ms
                                                                                                                        281.92ms
                                                                                      max:
                                                                                      approx. 95 percentile:
Threads fairness:
                                                                                                                          70.75ms
   events (avg/stddev):
                                1250.0000/27.80
   execution time (avg/stddev): 3.4296/0.00
                                                                             Threads fairness:
                                                                                 events (avg/stddev):
                                                                                                             1253.6250/107.65
                                                                                 execution time (avg/stddev): 14.2385/0.34
CPU Test 6 End: 2018-05-18 00:56:58.758469
CPU Test 7 Start: 2018-05-18 00:56:59.759705
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                             File Test 0 End: 2018-05-18 01:02:42.298736
                                                                             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 CPU performance benchmark
                                                                             Extra file open flags: 0
                                                                             128 files, 128Mb each
Threads started!
Done.
                                                                             16Gb total file size
                                                                             Block size 16Kb
Maximum prime number checked in CPU test: 20000
                                                                             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.
Test execution summary:
   total time:
                                       3.4271s
                                                                             Using synchronous I/O mode
   total number of events:
                                       10000
                                                                             Doing random r/w test
   total time taken by event execution: 27.4029
                                                                             Threads started!
   per-request statistics:
                                                                             Done.
        min:
                                             2.58ms
                                                                             Operations performed: 6025 Read, 4012 Write, 12805 Other = 22842 Total
        avg:
                                             2.74ms
                                            20.32ms
                                                                             Read 94.141Mb Written 62.688Mb Total transferred 156.83Mb (3.4095Mb/sec)
        max:
        approx. 95 percentile:
                                                                              218.21 Requests/sec executed
                                             2.73ms
Threads fairness:
                                                                             Test execution summary:
   events (avg/stddev): 1250.0000/26.00
                                                                                 total time:
                                                                                                                    45.9970s
   execution time (avg/stddev): 3.4254/0.00
                                                                                 total number of events:
                                                                                                                     10037
                                                                                 total time taken by event execution: 81.3846
CPU Test 7 End: 2018-05-18 00:57:03.193044
                                                                                 per-request statistics:
CPU Test 8 Start: 2018-05-18 00:57:04.194340
                                                                                                                           0.00ms
                                                                                     min:
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                                                                          8.11ms
                                                                                     avg:
                                                                                      max:
                                                                                                                        240.10ms
                                                                                      approx. 95 percentile:
Running the test with following options:
                                                                                                                          60.79ms
Number of threads: 8
                                                                             Threads fairness:
                                                                                 events (avg/stddev): 1254.6250/93.13
Doing CPU performance benchmark
                                                                                 execution time (avg/stddev): 10.1731/0.21
Threads started!
                                                                             File Test 2 Start: 2018-05-18 01:03:30.305540
Done.
                                                                             sysbench 0.4.12: multi-threaded system evaluation benchmark
Maximum prime number checked in CPU test: 20000
                                                                             Running the test with following options:
                                                                             Number of threads: 8
Test execution summary:
                                                                             Extra file open flags: 0
   total time:
   total number of events:
                                       10000
                                                                             128 files, 128Mb each
                                                                             16Gb total file size
   total time taken by event execution: 27.4335
   per-request statistics:
                                                                             Block size 16Kb
```

min: 2.44ms Number of random requests for random IO: 10000 avg: 2.74ms Read/Write ratio for combined random IO test: 1.50 max: 12.58ms Periodic FSYNC enabled, calling fsync() each 100 requests. approx. 95 percentile: 2.73ms Calling fsync() at the end of test, Enabled. Using synchronous I/O mode Threads fairness: Doing random r/w test events (avg/stddev): 1250.0000/19.61 Threads started! execution time (avg/stddev): 3.4292/0.00 Done. CPU Test 8 End: 2018-05-18 00:57:07.631561 Operations performed: 6044 Read, 4025 Write, 12807 Other = 22876 Total CPU Test 9 Start: 2018-05-18 00:57:08.632819 Read 94.438Mb Written 62.891Mb Total transferred 157.33Mb (4.6439Mb/sec) sysbench 0.4.12: multi-threaded system evaluation benchmark 297.21 Requests/sec executed Running the test with following options: Test execution summary: Number of threads: 8 total time: 33.8781s total number of events: 10069 Doing CPU performance benchmark total time taken by event execution: 6.3298 per-request statistics: Threads started! min: 0.00ms 0.63ms avg: 95.09ms max: Maximum prime number checked in CPU test: 20000 approx. 95 percentile: 0.07ms Threads fairness: events (avg/stddev): 1258.6250/134.67 execution time (avg/stddev): 0.7912/0.13 Test execution summary: total time: 3.43275 10000 total number of events: total time taken by event execution: 27.4484 File Test 2 End: 2018-05-18 01:04:04.191330 per-request statistics: File Test 3 Start: 2018-05-18 01:04:05.192824 sysbench 0.4.12: multi-threaded system evaluation benchmark 2.74ms avg: Running the test with following options: 24.05ms max: approx. 95 percentile: 2.73ms Number of threads: 8 Extra file open flags: 0 Threads fairness: events (avg/stddev): 1250.0000/22.61 execution time (avg/stddev): 3.4310/0.00 128 files, 128Mb each 16Gb total file size Block size 16Kb CPU Test 9 End: 2018-05-18 00:57:12.071721 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. Memory Test 0 Start: 2018-05-18 00:57:13.073017 sysbench 0.4.12: multi-threaded system evaluation benchmark Calling fsync() at the end of test, Enabled. Using synchronous I/O mode Running the test with following options: Doing random r/w test Number of threads: 8 Threads started! Doing memory operations speed test Operations performed: 6021 Read, 4010 Write, 12807 Other = 22838 Total Memory block size: 1K Read 94.078Mb Written 62.656Mb Total transferred 156.73Mb (3.3495Mb/sec) 214.37 Requests/sec executed Memory transfer size: 10240M Memory operations type: write Test execution summary: Memory scope type: global 46.7936s total time: Threads started! total number of events: total time taken by event execution: 88.8320 per-request statistics: Operations performed: 10485760 (4360563.46 ops/sec) min: 0.00ms avg: 8.86ms 10240.00 MB transferred (4258.36 MB/sec) max: 335.29ms approx. 95 percentile: 64.44ms Test execution summary: Threads fairness: total time: events (avg/stddev): 1253.8750/101.05 execution time (avg/stddev): 11.1040/0.43 total number of events: 10485760 total time taken by event execution: 9.6977 per-request statistics: File Test 3 End: 2018-05-18 01:04:51.994847 min: 0.00ms File Test 4 Start: 2018-05-18 01:04:52.996346 0.00ms sysbench 0.4.12: multi-threaded system evaluation benchmark avg: 19.93ms approx. 95 percentile: Running the test with following options: Number of threads: 8 Threads fairness: events (avg/stddev): Extra file open flags: 0 1310720.0000/16816.98 execution time (avg/stddev): 1.2122/0.01 128 files, 128Mb each 16Gb total file size Memory Test 0 End: 2018-05-18 00:57:15.484260 Block size 16Kb Memory Test 1 Start: 2018-05-18 00:57:16.485544 Number of random requests for random IO: 10000 Read/Write ratio for combined random IO test: 1.50 sysbench 0.4.12: multi-threaded system evaluation benchmark Periodic FSYNC enabled, calling fsync() each 100 requests. Running the test with following options: Calling fsync() at the end of test, Enabled. Number of threads: 8 Using synchronous I/O mode Doing random r/w test Doing memory operations speed test Threads started! Memory block size: 1K Operations performed: 6035 Read, 4019 Write, 12807 Other = 22861 Total Memory transfer size: 10240M Read 94.297Mb Written 62.797Mb Total transferred 157.09Mb (3.501Mb/sec) Memory operations type: write 224.06 Requests/sec executed

Memory scope type: global

```
Test execution summary:
Threads started!
                                                                                                                      44.87145
Done.
                                                                                  total time:
                                                                                  total number of events:
                                                                                                                      10054
Operations performed: 10485760 (4393099.78 ops/sec)
                                                                                  total time taken by event execution: 76.0858
                                                                                  per-request statistics:
10240.00 MB transferred (4290.14 MB/sec)
                                                                                       min:
                                                                                                                            7.57ms
                                                                                       avg:
                                                                                                                          173.26ms
                                                                                       max:
Test execution summary:
                                                                                       approx. 95 percentile:
                                                                                                                           58.79ms
    total time:
                                       2.3869s
    total number of events:
                                       10485760
                                                                              Threads fairness:
                                                                                  events (avg/stddev): 1256.7500/65.38
    total time taken by event execution: 9.6614
                                                                                  execution time (avg/stddev): 9.5107/0.26
    per-request statistics:
                                              0.00ms
                                                                              File Test 4 End: 2018-05-18 01:05:37.876114
        avg:
                                              6.66ms
                                                                              File Test 5 Start: 2018-05-18 01:05:38.877604
        max:
                                                                              sysbench 0.4.12: multi-threaded system evaluation benchmark
        approx. 95 percentile:
                                              0.00ms
Threads fairness:
                                                                              Running the test with following options:
   events (avg/stddev): 1310720.0000/12911.33 execution time (avg/stddev): 1.2077/0.01
                                                                              Number of threads: 8
                                                                              Extra file open flags: 0
Memory Test 1 End: 2018-05-18 00:57:18.874915
                                                                              128 files, 128Mb each
Memory Test 2 Start: 2018-05-18 00:57:19.876112
                                                                              16Gb total file size
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                              Block size 16Kb
                                                                              Number of random requests for random IO: 10000
Running the test with following options:
                                                                              Read/Write ratio for combined random IO test: 1.50
Number of threads: 8
                                                                              Periodic FSYNC enabled, calling fsync() each 100 requests.
                                                                              Calling fsync() at the end of test, Enabled.
Doing memory operations speed test
                                                                              Using synchronous I/O mode
Memory block size: 1K
                                                                              Doing random r/w test
                                                                              Threads started!
Memory transfer size: 10240M
                                                                              Done.
                                                                              Operations performed: 6053 Read, 4033 Write, 12805 Other = 22891 Total
Memory operations type: write
Memory scope type: global
                                                                              Read 94.578Mb Written 63.016Mb Total transferred 157.59Mb (4.5867Mb/sec)
Threads started!
                                                                                293.55 Requests/sec executed
                                                                              Test execution summary:
Operations performed: 10485760 (4426260.49 ops/sec)
                                                                                  total time:
                                                                                                                      34.3591s
                                                                                  total number of events:
10240.00 MB transferred (4322.52 MB/sec)
                                                                                  total time taken by event execution: 6.4815
                                                                                  per-request statistics:
                                                                                      min:
                                                                                                                            0.00ms
Test execution summary:
                                                                                                                            0.64ms
                                                                                       avg:
    total time:
                                                                                       max:
                                                                                                                           87.66ms
    total number of events:
                                        10485760
                                                                                       approx. 95 percentile:
                                                                                                                            0.07ms
    total time taken by event execution: 10.2009
    per-request statistics:
                                                                              Threads fairness:
                                                                                                                1260.7500/152.48
        min:
                                              0.00ms
                                                                                  events (avg/stddev):
                                                                                  execution time (avg/stddev): 0.8102/0.16
        avg:
                                              0.00ms
                                              6.81ms
         max:
        approx. 95 percentile:
                                                                              File Test 5 End: 2018-05-18 01:06:13.244740
                                              0.00ms
                                                                              File Test 6 Start: 2018-05-18 01:06:14.246243
Threads fairness:
                                                                              sysbench 0.4.12: multi-threaded system evaluation benchmark
   events (avg/stddev):
                                1310720.0000/12914.78
    execution time (avg/stddev): 1.2751/0.01
                                                                              Running the test with following options:
                                                                              Number of threads: 8
Memory Test 2 End: 2018-05-18 00:57:22.247388
Memory Test 3 Start: 2018-05-18 00:57:23.248688
                                                                              Extra file open flags: 0
sysbench 0.4.12: multi-threaded system evaluation benchmark
                                                                              128 files, 128Mb each
                                                                              16Gb total file size
Running the test with following options:
                                                                              Block size 16Kb
                                                                              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
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!
Memory operations type: write
                                                                              Done.
Memory scope type: global
                                                                              Operations performed: 6045 Read, 4030 Write, 12809 Other = 22884 Total
Threads started!
Done.
                                                                              Read 94.453Mb Written 62.969Mb Total transferred 157.42Mb (4.7033Mb/sec)
                                                                                301.01 Requests/sec executed
Operations performed: 10485760 (4394269.54 ops/sec)
                                                                              Test execution summary:
10240.00 MB transferred (4291.28 MB/sec)
                                                                                  total time:
                                                                                  total number of events:
                                                                                  total time taken by event execution: 4.4356
Test execution summary:
                                                                                  per-request statistics:
    total time:
                                       2.38625
                                                                                      min:
                                                                                                                            0.00ms
    total number of events:
                                        10485760
                                                                                       avg:
                                                                                                                            0.44ms
    total time taken by event execution: 9.4815
                                                                                                                           74.19ms
    per-request statistics:
                                                                                       approx. 95 percentile:
                                                                                                                            0.06ms
        min:
                                              0.00ms
                                                                              Threads fairness:
        avg:
```

1259.3750/85.21

events (avg/stddev):

execution time (avg/stddev): 0.5545/0.06

6.58ms

0.00ms

max:

approx. 95 percentile:

```
Threads fairness:
                                                                             File Test 6 End: 2018-05-18 01:06:47.725095
                            1310720.0000/12486.06
   events (avg/stddev):
                                                                             File Test 7 Start: 2018-05-18 01:06:48.726543
   execution time (avg/stddev): 1.1852/0.01
                                                                             sysbench 0.4.12: multi-threaded system evaluation benchmark
Memory Test 3 End: 2018-05-18 00:57:25.640974
                                                                             Running the test with following options:
Memory Test 4 Start: 2018-05-18 00:57:26.642233
                                                                             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
                                                                             16Gh total file size
                                                                             Block size 16Kb
Doing memory operations speed test
                                                                             Number of random requests for random IO: 10000
                                                                             Read/Write ratio for combined random IO test: 1.50
Memory block size: 1K
                                                                             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
                                                                             Doing random r/w test
Memory operations type: write
Memory scope type: global
                                                                             Threads started!
Threads started!
                                                                             Done.
Done.
                                                                             Operations performed: 6020 Read, 4009 Write, 12808 Other = 22837 Total
                                                                             Read 94.062Mb Written 62.641Mb Total transferred 156.7Mb (3.2933Mb/sec)
Operations performed: 10485760 (4371769.60 ops/sec)
                                                                               210.77 Requests/sec executed
10240.00 MB transferred (4269.31 MB/sec)
                                                                             Test execution summary:
                                                                                 total time:
                                                                                                                     47.58265
                                                                                 total number of events:
Test execution summary:
                                                                                                                     10029
                                      2.3985s
   total time:
                                                                                 total time taken by event execution: 93.1746
   total number of events:
                                        10485760
                                                                                 per-request statistics:
   total time taken by event execution: 9.6489
                                                                                      min:
   per-request statistics:
                                                                                                                           9.29ms
                                                                                      avg:
                                              0.00ms
                                                                                                                         389.18ms
        min:
                                                                                      max:
        avg:
                                             0.00ms
                                                                                      approx. 95 percentile:
                                                                                                                          67.16ms
        max:
                                              6.79ms
        approx. 95 percentile:
                                              0.00ms
                                                                             Threads fairness:
                                                                                 events (avg/stddev):
                                                                                                              1253.6250/76.24
                                                                                 execution time (avg/stddev): 11.6468/0.38
Threads fairness:
   events (avg/stddev):
                                 1310720.0000/9134.46
   execution time (avg/stddev): 1.2061/0.01
                                                                             File Test 7 End: 2018-05-18 01:07:36.317475
                                                                             File Test 8 Start: 2018-05-18 01:07:37.318896
Memory Test 4 End: 2018-05-18 00:57:29.046836
                                                                             sysbench 0.4.12: multi-threaded system evaluation benchmark
Memory Test 5 Start: 2018-05-18 00:57:30.048116
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 16Kh
                                                                             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
Threads started!
                                                                             Doing random r/w test
                                                                             Threads started!
Done.
                                                                             Done.
Operations performed: 10485760 (4397277.84 ops/sec)
                                                                             Operations performed: 6056 Read, 4037 Write, 12809 Other = 22902 Total
10240.00 MB transferred (4294.22 MB/sec)
                                                                             Read 94.625Mb Written 63.078Mb Total transferred 157.7Mb (4.6479Mb/sec)
                                                                               297.46 Requests/sec executed
Test execution summary:
                                                                             Test execution summary:
                                                                                 total time:
   total time:
                                      2.3846s
                                                                                                                     33.9301s
                                                                                 total number of events:
   total number of events:
                                       10485760
                                                                                                                     10093
   total time taken by event execution: 9.6678
                                                                                 total time taken by event execution: 6.1913
   per-request statistics:
                                                                                 per-request statistics:
        min:
                                              0.00ms
                                                                                      min:
                                                                                                                           0.00ms
                                              0.00ms
                                                                                                                           0.61ms
        avg:
                                                                                      avg:
                                              6.65ms
                                                                                                                          88.36ms
        max:
                                                                                      max:
        approx. 95 percentile:
                                                                                      approx. 95 percentile:
                                              0.00ms
                                                                                                                          0.07ms
Threads fairness:
                                                                             Threads fairness:
                                                                                                               1261.6250/203.64
   events (avg/stddev):
                                 1310720.0000/12154.21
                                                                                 events (avg/stddev):
   execution time (avg/stddev): 1.2085/0.00
                                                                                 execution time (avg/stddev): 0.7739/0.20
Memory Test 5 End: 2018-05-18 00:57:32.438835
                                                                             File Test 8 End: 2018-05-18 01:08:11.256575
Memory Test 6 Start: 2018-05-18 00:57:33.440143
                                                                             File Test 9 Start: 2018-05-18 01:08:12.258017
                                                                             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
                                                                             Extra file open flags: 0
Doing memory operations speed test
Memory block size: 1K
                                                                             128 files, 128Mb each
                                                                             16Gb total file size
                                                                             Block size 16Kb
Memory transfer size: 10240M
                                                                             Number of random requests for random IO: 10000
```

```
Memory operations type: write
Memory scope type: global
Threads started!
Operations performed: 10485760 (4395789.62 ops/sec)
10240.00 MB transferred (4292.76 MB/sec)
Test execution summary:
   total time:
                                       2.3854s
   total number of events:
                                      10485760
   total time taken by event execution: 9.7324
   per-request statistics:
        min:
                                              0.00ms
                                             0.00ms
        avg:
                                              6.14ms
        max:
        approx. 95 percentile:
                                              0.00ms
Threads fairness:
   events (avg/stddev): 1310720.0000/13781.53
execution time (avg/stddev): 1.2166/0.01
Memory Test 6 End: 2018-05-18 00:57:35.831616
Memory Test 7 Start: 2018-05-18 00:57:36.832940
sysbench 0.4.12: multi-threaded system evaluation benchmark
Running the test with following options:
Number of threads: 8
Doing memory operations speed test
Memory block size: 1K
Memory transfer size: 10240M
Memory operations type: write
Memory scope type: global
Threads started!
Operations performed: 10485760 (4394168.07 ops/sec)
10240.00 MB transferred (4291.18 MB/sec)
Test execution summary:
   total time:
                                       2.3863s
   total number of events:
                                       10485760
   total time taken by event execution: 9.9218
   per-request statistics:
        min:
                                              0.00ms
                                              0.00ms
                                              6.64ms
        max:
        approx. 95 percentile:
Threads fairness:
   events (avg/stddev): 1310720.0000/10184.52
   execution time (avg/stddev): 1.2402/0.01
Memory Test 7 End: 2018-05-18 00:57:39.225220
Memory Test 8 Start: 2018-05-18 00:57:40.226524
sysbench 0.4.12: multi-threaded system evaluation benchmark
Running the test with following options:
Number of threads: 8
Doing memory operations speed test
Memory block size: 1K
Memory transfer size: 10240M
Memory operations type: write
Memory scope type: global
Threads started!
Operations performed: 10485760 (4436051.63 ops/sec)
10240.00 MB transferred (4332.08 MB/sec)
Test execution summary:
                                       2.3638s
   total time:
   total number of events:
                                       10485760
   total time taken by event execution: 9.8107
   per-request statistics:
```

0.00ms

0.00ms

min: avg:

```
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: 6062 Read, 4037 Write, 12809 Other = 22908 Total
Read 94.719Mb Written 63.078Mb Total transferred 157.8Mb (4.5647Mb/sec)
  292.14 Requests/sec executed
Test execution summary:
   total time:
   total number of events:
                                       10099
   total time taken by event execution: 13.4363
   per-request statistics:
                                             0.00ms
        min:
        avg:
                                             1.33ms
        max:
                                          160.16ms
        approx. 95 percentile:
                                             0.10ms
Threads fairness:
                                1262.3750/94.15
   events (avg/stddev):
   execution time (avg/stddev): 1.6795/0.13
File Test 9 End: 2018-05-18 01:08:46.834337
```

6.90ms max: approx. 95 percentile: 0.00ms Threads fairness: events (avg/stddev): 1310720.0000/10341.35 execution time (avg/stddev): 1.2263/0.01 Memory Test 8 End: 2018-05-18 00:57:42.596358 Memory Test 9 Start: 2018-05-18 00:57:43.597586 sysbench 0.4.12: multi-threaded system evaluation benchmark Running the test with following options: Number of threads: 8 Doing memory operations speed test Memory block size: 1K Memory transfer size: 10240M Memory operations type: write Memory scope type: global Threads started! Operations performed: 10485760 (4376117.79 ops/sec) 10240.00 MB transferred (4273.55 MB/sec) Test execution summary: total time: 2.3961s total number of events: 10485760 total time: total time taken by event execution: 9.7105 per-request statistics: 0.00ms min: avg: 0.00ms max: 6.33ms approx. 95 percentile: 0.00ms

Threads fairness:

events (avg/stddev): 1310720.0000/10640.30 execution time (avg/stddev): 1.2138/0.01

Memory Test 9 End: 2018-05-18 00:57:45.999755