

www.phoronix-test-suite.com

fedora-phoronix-a

microsoft testing on Fedora 27 via the Phoronix Test Suite.

Automated Executive Summary

AOS 5.0.4.1 AF pinned had the most wins, coming in first place for 66% of the tests.

Based on the geometric mean of all complete results, the fastest (AOS 5.0.4.1 AF pinned) was 1.022x the speed of the slowest (5.0.4.1 upgrade to 5.5.1).

Test Systems:

AOS 5.0.4.1 AF pinned

Processor: 8 x Intel Xeon Gold 5120 @ 2.20GHz (32 Cores), Motherboard: Nutanix AHV, Chipset: Intel 440FX-82441FX PMC, Memory: 2 x 16384 MB RAM, Disk: 107GB VDISK + 8 x 137GB VDISK, Graphics: bochsdrmfb, Network: Red Hat Virtio device

OS: Fedora 27, Kernel: 4.15.3-300.fc27.x86_64 (x86_64), Compiler: GCC 7.3.1 20180130, File-System: xfs, Screen Resolution: 1024x768, System Layer: microsoft

Compiler Notes: --build=x86_64-redhat-linux --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,fortran,ada,go,lto --enable-libmpx --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=i686 --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver
Disk Notes: CFQ / attr2,inode64,noquota,relatime,rw,seclabel
System Notes: Python 2.7.14. SELinux: Enabled.

5.0.4.1 upgrade to 5.5.1

Processor: 8 x Intel Xeon Gold 5120 @ 2.20GHz (32 Cores), Motherboard: Nutanix AHV (seabios-1.7.5-11.el6 BIOS), Chipset: Intel 440FX- 82441FX PMC, Memory: 2 x 16384 MB RAM, Disk: 107GB VDISK + 8 x 137GB VDISK, Graphics: bochsdrmfb, Network: Red Hat Virtio device

OS: Fedora 27, Kernel: 4.15.3-300.fc27.x86_64 (x86_64), Compiler: GCC 7.3.1 20180130, File-System: xfs, Screen Resolution: 1024x768, System Layer: microsoft

Compiler Notes: --build=x86_64-redhat-linux --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,fortran,ada,go,lto --enable-libmpx --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=i686 --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver
Disk Notes: CFQ / attr2,inode64,noquota,relatime,rw,seclabel
Python Notes: Python 2.7.14 + Python 3.6.4
Security Notes: SELinux + KPTI + __user pointer sanitization + Full generic retpoline Protection

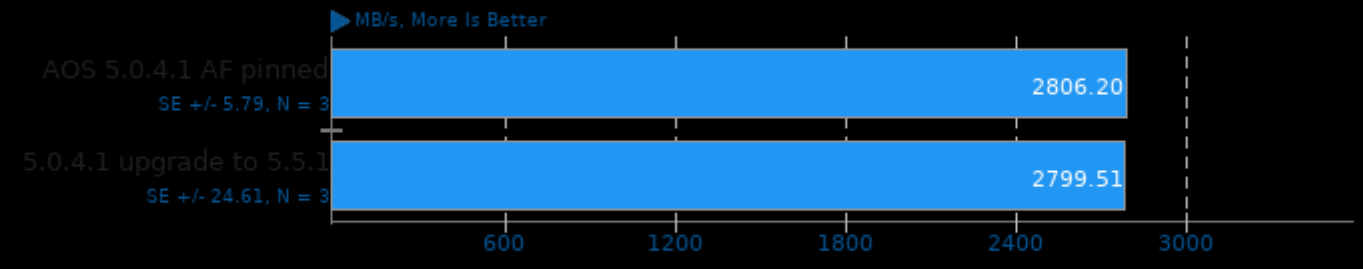
	AOS 5.0.4.1 AF pinned	5.0.4.1 upgrade to 5.5.1
AIO-Stress - Rand Write (MB/s)	**2806**	**2800**
Normalized	100%	99.76%
Standard Deviation	0.4%	1.5%
SQLite - T.S.I (sec)	**45.53**	**49.02**
Normalized	100%	92.88%
Standard Deviation	6.1%	30.6%
FS-Mark - 1.F.1.S (Files/s)	**315.13**	**302.50**
Normalized	100%	95.99%
Standard Deviation	1%	3.5%
Dbench - 12 Clients (MB/s)	**1396**	**1101**
Normalized	100%	78.87%
Standard Deviation	0.7%	24.8%
Dbench - 48 Clients (MB/s)	**1792**	**1769**
Normalized	100%	98.69%
Standard Deviation	0.2%	0.7%
Dbench - 128 Clients (MB/s)	**3835**	**3500**
Normalized	100%	91.27%
Standard Deviation	0.7%	3.4%
Dbench - 1 Clients (MB/s)	**161.90**	**189.12**
Normalized	85.61%	100%
Standard Deviation	2.7%	1.9%
Threaded I/O Tester - 64MB Rand Read - 32 Threads (MB/s)	**296877**	**340175**
Normalized	87.27%	100%
Standard Deviation	24.1%	18%

fedora-phoronix-a

Threaded I/O Tester - 64MB Rand Write - 32 Threads (MB/s)	**964.93**	**990.54**
Normalized	97.41%	100%
Standard Deviation	10.6%	2%
Compile Bench - Compile (MB/s)	**1550**	**1465**
Normalized	100%	94.5%
Standard Deviation	1%	3.4%
Compile Bench - Initial Create (MB/s)	**223.45**	**224.28**
Normalized	99.63%	100%
Standard Deviation	8.1%	2.2%
Compile Bench - Read Compiled Tree (MB/s)	**718.72**	**710.88**
Normalized	100%	98.91%
Standard Deviation	1.4%	2.2%
Unpacking The Linux Kernel - linux-4.15.tar.xz (sec)	**9.12**	**9.46**
Normalized	100%	96.41%
Standard Deviation	1.5%	3.7%
PostMark - D.T.P (TPS)	**4081**	**3709**
Normalized	100%	90.88%
Standard Deviation	3.9%	4.1%
Gzip Compression - 2.F.C (sec)	**14.17**	**14.09**
Normalized	99.44%	100%
Standard Deviation	3.3%	3.4%

AIO-Stress 0.21

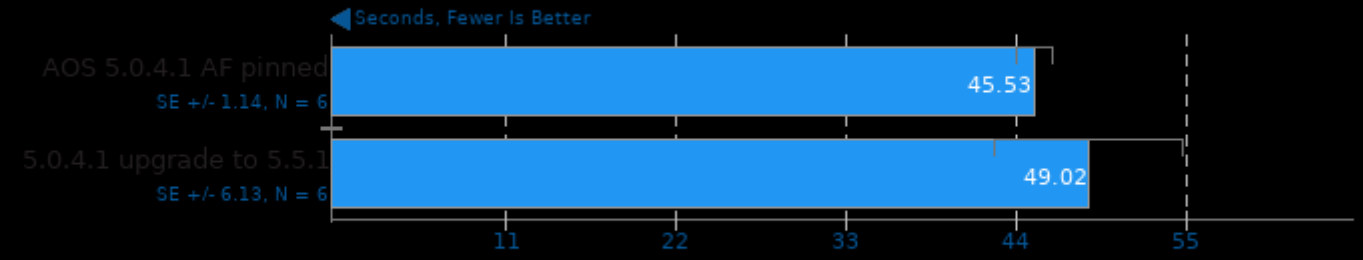
Random Write



1. (CC) gcc options: -pthread -laio

SQLite 3.8.10.2

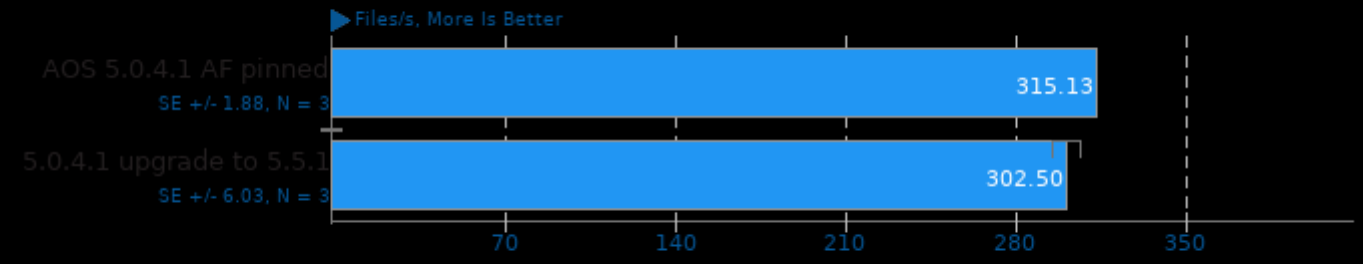
Timed SQLite Insertions



1. (CC) gcc options: -O2 -ldl -lpthread

FS-Mark 3.3

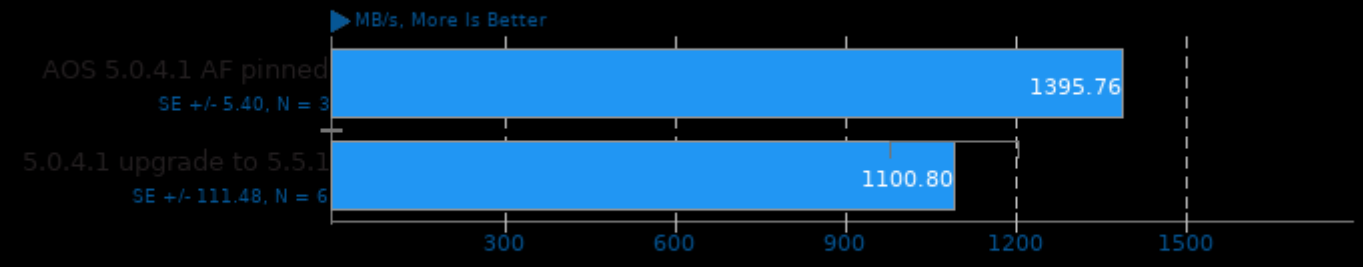
1000 Files, 1MB Size



1. (CC) gcc options: -static

Dbench 4.0

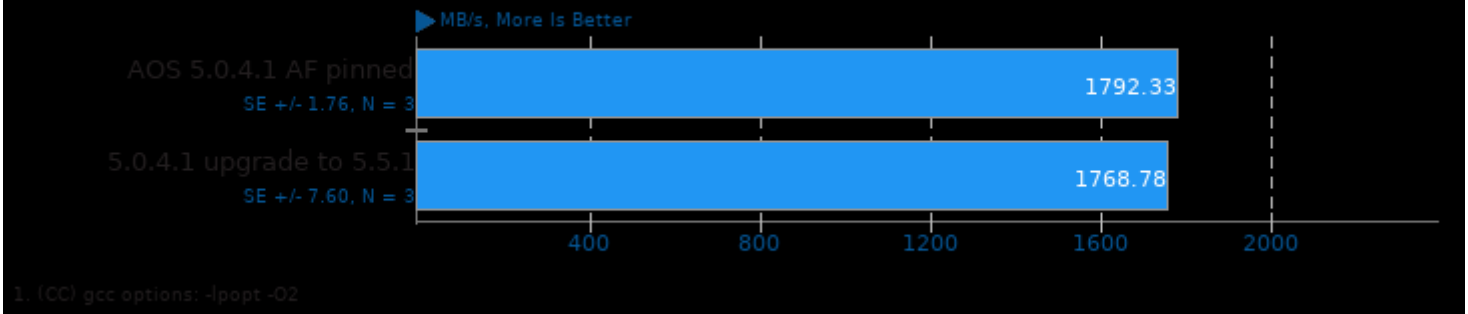
12 Clients



1. (CC) gcc options: -lpopt -O2

Dbench 4.0

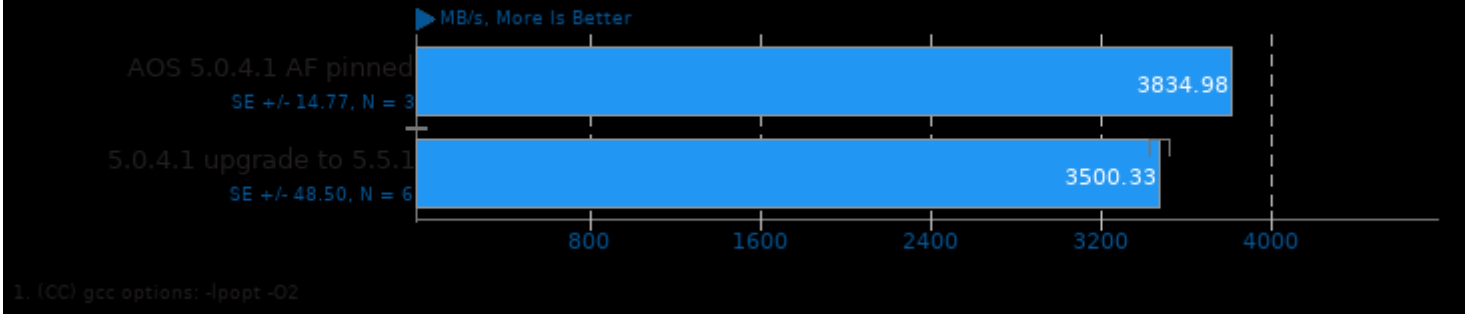
48 Clients



1. (CC) gcc options: -lpopt -O2

Dbench 4.0

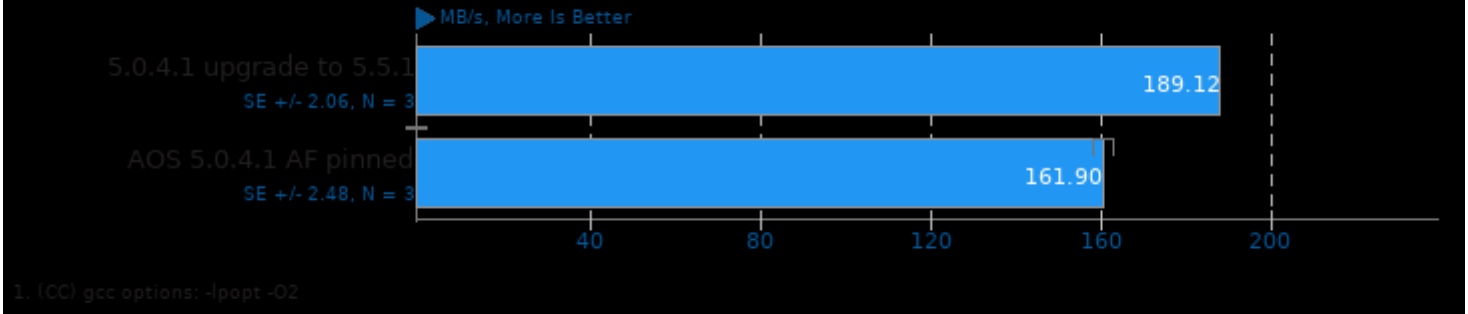
128 Clients



1. (CC) gcc options: -lpopt -O2

Dbench 4.0

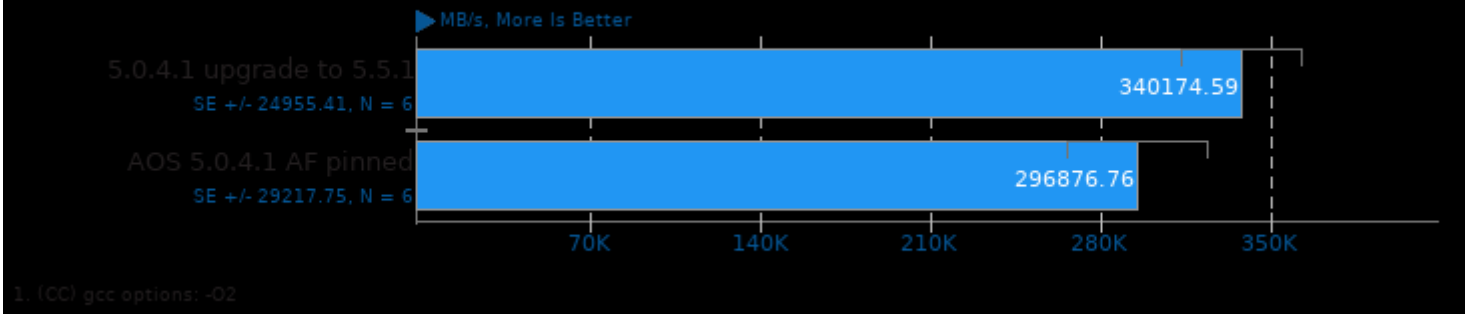
1 Clients



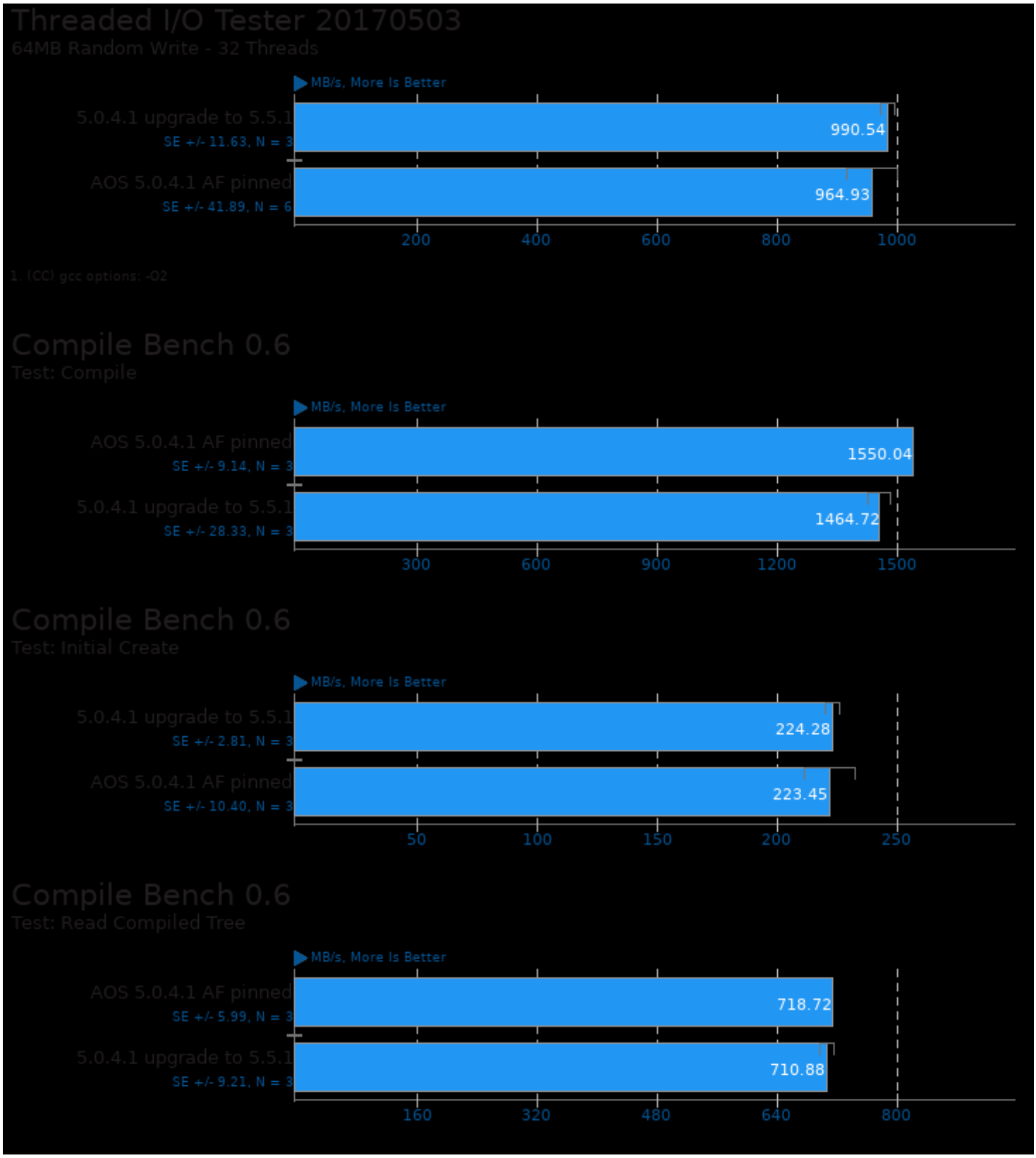
1. (CC) gcc options: -lpopt -O2

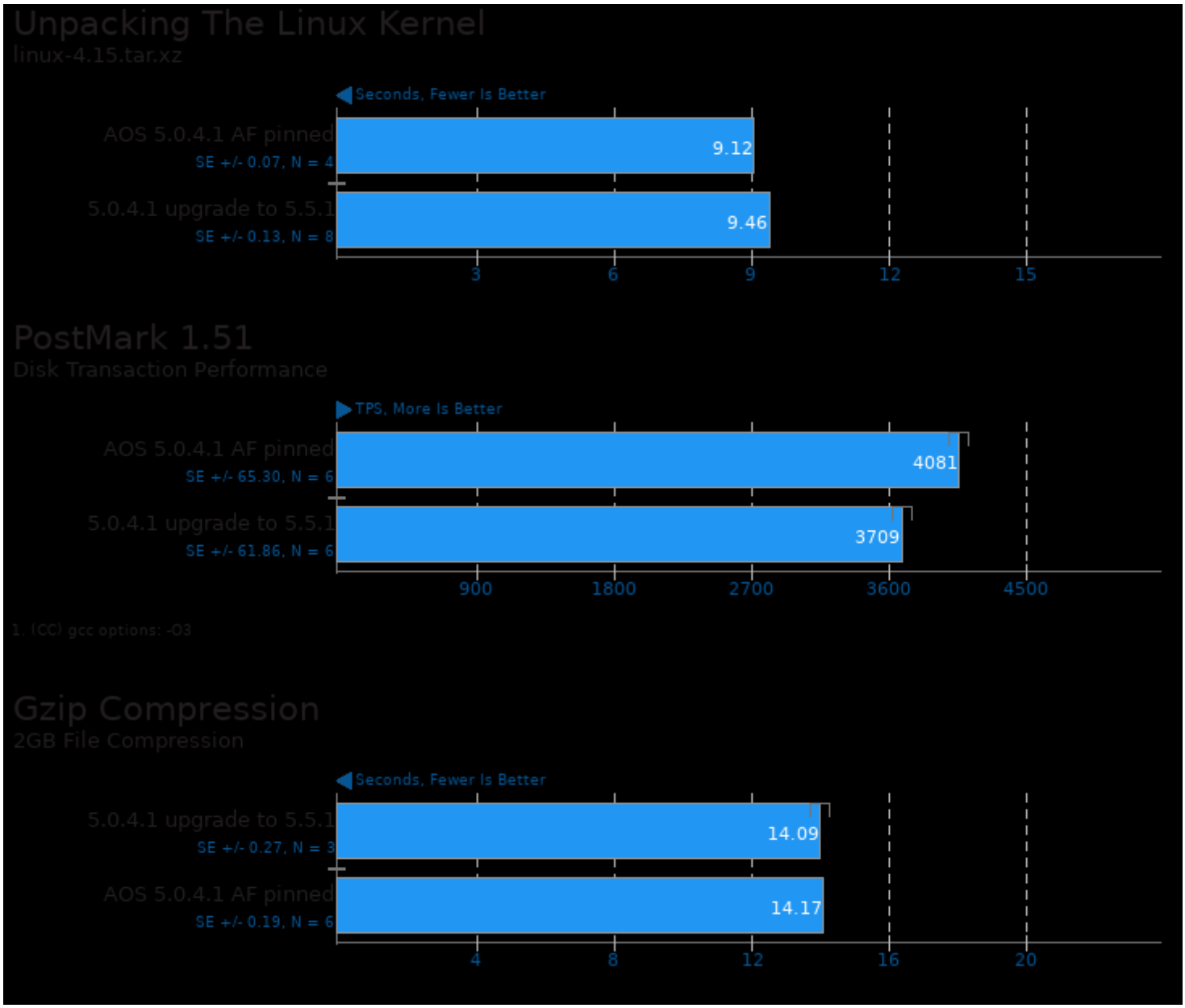
Threaded I/O Tester 20170503

64MB Random Read - 32 Threads



1. (CC) gcc options: -O2


Threaded I/O Tester 20170503
64MB Random Write - 32 Threads
MB/s, More Is Better
5.0.4.1 upgrade to 5.5.1
SE +/- 11.63, N = 3
990.54
AOS 5.0.4.1 AF pinned
SE +/- 41.89, N = 6
964.93
200
400
600
800
1000
1. (CC) gcc options: -O2
Compile Bench 0.6
Test: Compile
MB/s, More Is Better
AOS 5.0.4.1 AF pinned
SE +/- 9.14, N = 3
1550.04
5.0.4.1 upgrade to 5.5.1
SE +/- 28.33, N = 3
1464.72
300
600
900
1200
1500
Compile Bench 0.6
Test: Initial Create
MB/s, More Is Better
5.0.4.1 upgrade to 5.5.1
SE +/- 2.81, N = 3
224.28
AOS 5.0.4.1 AF pinned
SE +/- 10.40, N = 3
223.45
50
100
150
200
250
Compile Bench 0.6
Test: Read Compiled Tree
MB/s, More Is Better
AOS 5.0.4.1 AF pinned
SE +/- 5.99, N = 3
718.72
5.0.4.1 upgrade to 5.5.1
SE +/- 9.21, N = 3
710.88
160
320
480
640
800


Unpacking The Linux Kernel
linux-4.15.tar.xz
Seconds, Fewer Is Better
AOS 5.0.4.1 AF pinned
SE +/- 0.07, N = 4
9.12
5.0.4.1 upgrade to 5.5.1
SE +/- 0.13, N = 8
9.46
3
6
9
12
15
PostMark 1.51
Disk Transaction Performance
TPS, More Is Better
AOS 5.0.4.1 AF pinned
SE +/- 65.30, N = 6
4081
5.0.4.1 upgrade to 5.5.1
SE +/- 61.86, N = 6
3709
900
1800
2700
3600
4500
1. (CC) gcc options: -O3
Gzip Compression
2GB File Compression
Seconds, Fewer Is Better
5.0.4.1 upgrade to 5.5.1
SE +/- 0.27, N = 3
14.09
AOS 5.0.4.1 AF pinned
SE +/- 0.19, N = 6
14.17
4
8
12
16
20

fedora-phoronix-a

These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/sqlite, pts/fs-mark, pts/compilebench, pts/dbench and pts/postmark

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 15:19.