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fedora-phoronix-c

microsoft testing on Fedora 27 via the Phoronix Test Suite.

Automated Executive Summary

AOS 5.0.4.1 had the most wins, coming in first place for 53% of the tests.

Based on the geometric mean of all complete results, the fastest (AOS 5.0.4.1) was 1.001x the speed of the slowest (5.0.4.1 upgrade to 5.5.1).

Test Systems:

AOS 5.0.4.1

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

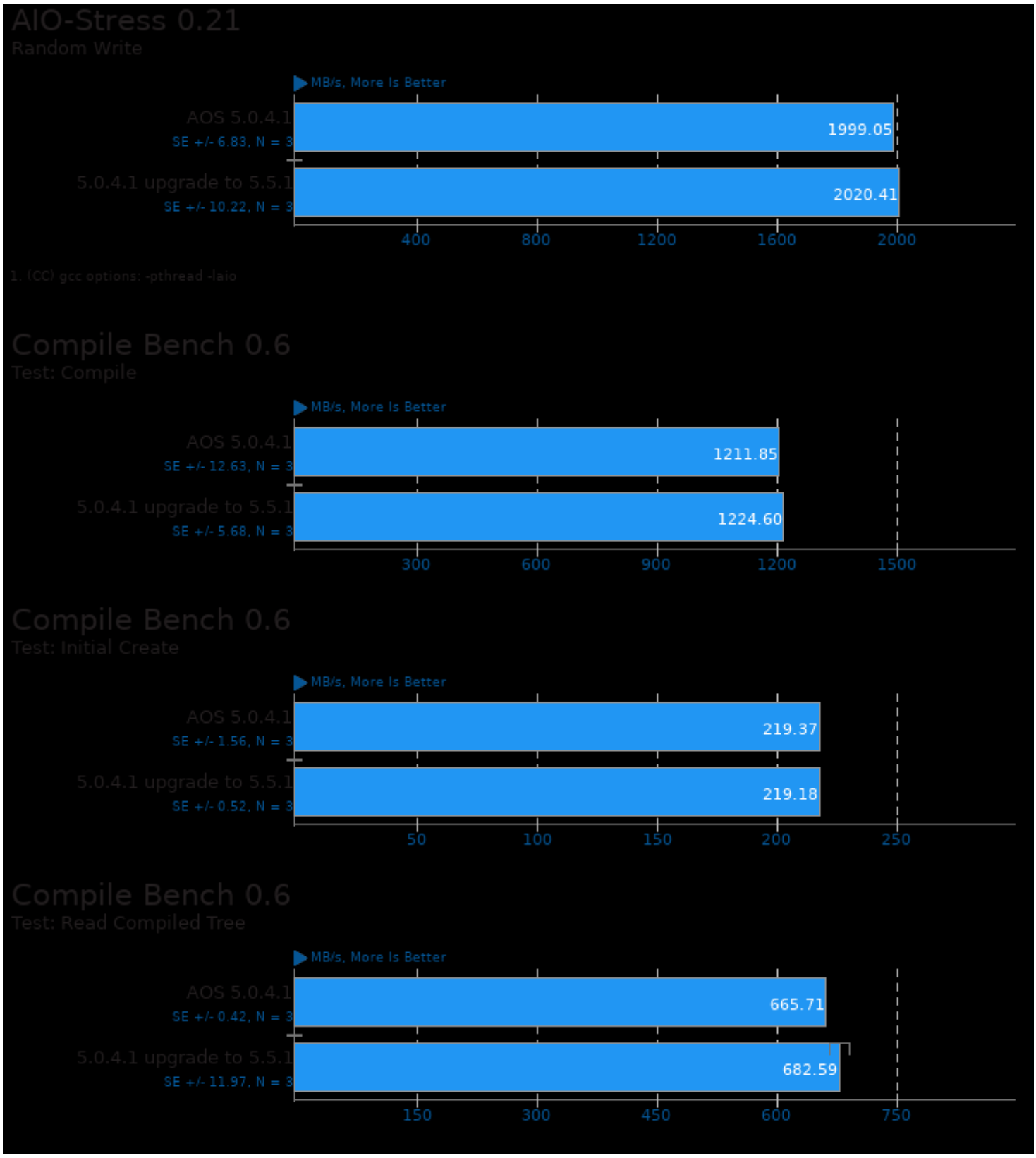
OS: Fedora 27, Kernel: 4.15.3-300.fc27.x86_64 (x86_64), Compiler: GCC 7.3.1 20180130, File-System: xfs, Screen Resolution: 1024x768, System Layer: microsoft

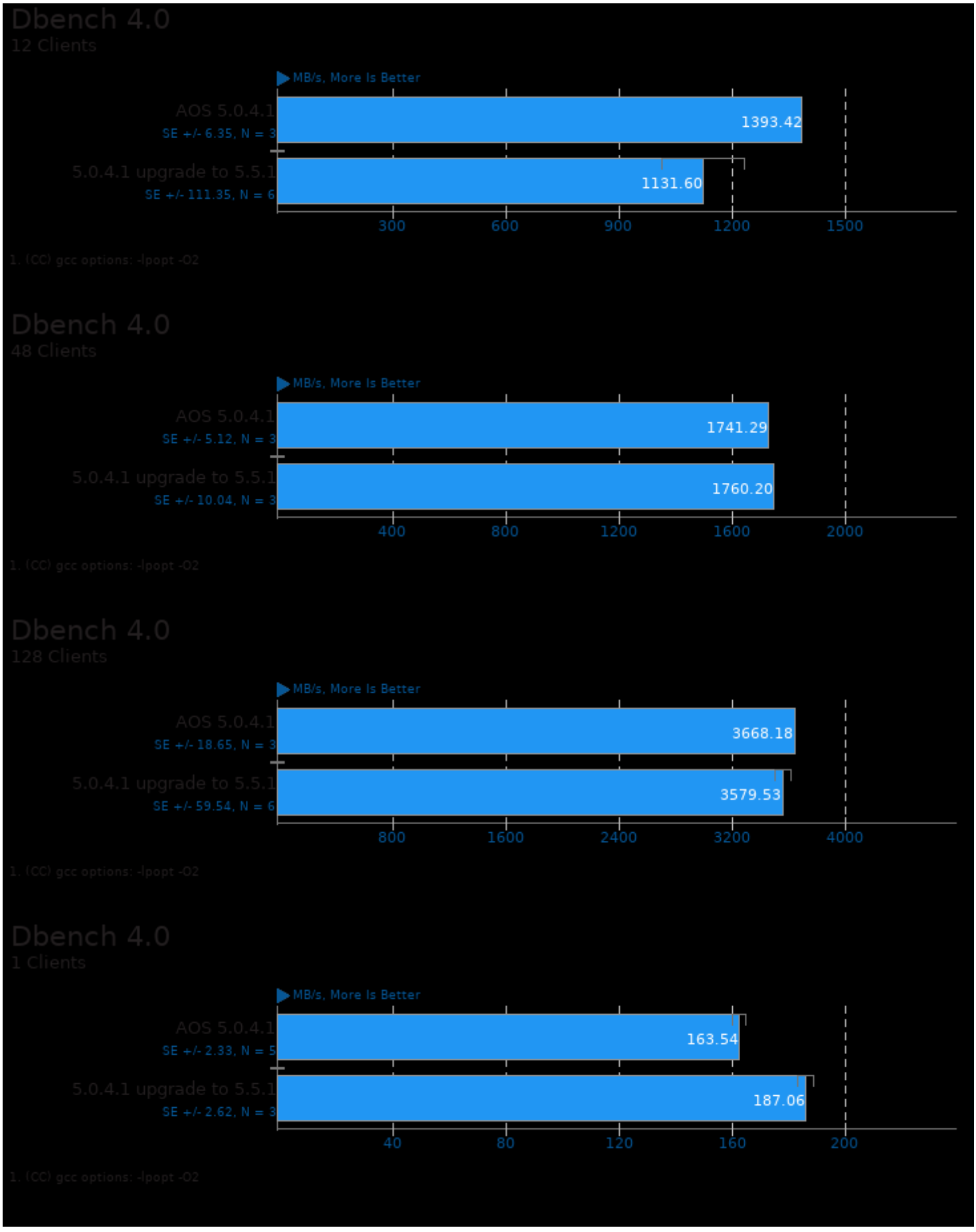
Compiler Notes: --build=x86_64-redhat-linux --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,fortran,ada,go,lto --enable-libmpx --enable-multilib --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	5.0.4.1 upgrade to 5.5.1
AIO-Stress - Rand Write (MB/s)	**1999**	**2020**
Normalized	98.94%	100%
Standard Deviation	0.6%	0.9%
Compile Bench - Compile (MB/s)	**1212**	**1225**
Normalized	98.96%	100%
Standard Deviation	1.8%	0.8%
Compile Bench - Initial Create (MB/s)	**219.37**	**219.18**
Normalized	100%	99.91%
Standard Deviation	1.2%	0.4%
Compile Bench - Read Compiled Tree (MB/s)	**665.71**	**682.59**
Normalized	97.53%	100%
Standard Deviation	0.1%	3%
Dbench - 12 Clients (MB/s)	**1393**	**1132**
Normalized	100%	81.21%
Standard Deviation	0.8%	24.1%
Dbench - 48 Clients (MB/s)	**1741**	**1760**
Normalized	98.93%	100%
Standard Deviation	0.5%	1%
Dbench - 128 Clients (MB/s)	**3668**	**3580**
Normalized	100%	97.58%
Standard Deviation	0.9%	4.1%
Dbench - 1 Clients (MB/s)	**163.54**	**187.06**
Normalized	87.43%	100%
Standard Deviation	3.2%	2.4%
FS-Mark - 1.F.1.S (Files/s)	**248.72**	**301.93**

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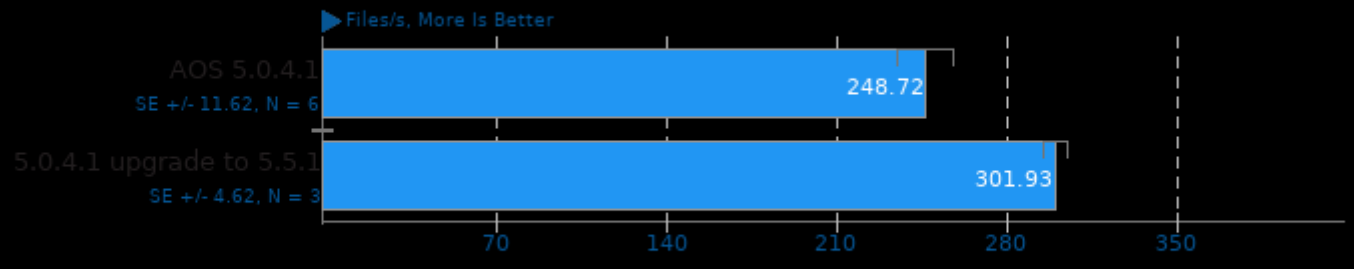
Normalized	82.38%	100%
Standard Deviation	11.4%	2.6%
Gzip Compression - 2.F.C (sec)	**13.65**	**13.96**
Normalized	100%	97.78%
Standard Deviation	1.3%	1.5%
PostMark - D.T.P (TPS)	**3571**	**3829**
Normalized	93.26%	100%
Standard Deviation		3.2%
SQLite - T.S.I (sec)	**44.58**	**48.88**
Normalized	100%	91.2%
Standard Deviation	3.4%	32.7%
Threaded I/O Tester - 64MB Rand Read - 32 Threads (MB/s)	**269472**	**248034**
Normalized	100%	92.04%
Standard Deviation	17.3%	35.7%
Threaded I/O Tester - 64MB Rand Write - 32 Threads (MB/s)	**970.72**	**930.36**
Normalized	100%	95.84%
Standard Deviation	11.6%	9.7%
Unpacking The Linux Kernel - linux-4.15.tar.xz (sec)	**8.86**	**8.87**
Normalized	100%	99.89%
Standard Deviation	2.5%	3.5%


AIO-Stress 0.21
Random Write
MB/s, More Is Better
AOS 5.0.4.1
SE +/- 6.83, N = 3
1999.05
5.0.4.1 upgrade to 5.5.1
SE +/- 10.22, N = 3
2020.41
400
800
1200
1600
2000
1. (CC) gcc options: -pthread -laio
Compile Bench 0.6
Test: Compile
MB/s, More Is Better
AOS 5.0.4.1
SE +/- 12.63, N = 3
1211.85
5.0.4.1 upgrade to 5.5.1
SE +/- 5.68, N = 3
1224.60
300
600
900
1200
1500
Compile Bench 0.6
Test: Initial Create
MB/s, More Is Better
AOS 5.0.4.1
SE +/- 1.56, N = 3
219.37
5.0.4.1 upgrade to 5.5.1
SE +/- 0.52, N = 3
219.18
50
100
150
200
250
Compile Bench 0.6
Test: Read Compiled Tree
MB/s, More Is Better
AOS 5.0.4.1
SE +/- 0.42, N = 3
665.71
5.0.4.1 upgrade to 5.5.1
SE +/- 11.97, N = 3
682.59
150
300
450
600
750


Dbench 4.0
12 Clients
MB/s, More Is Better
AOS 5.0.4.1
SE +/- 6.35, N = 3
1393.42
5.0.4.1 upgrade to 5.5.1
SE +/- 111.35, N = 6
1131.60
300
600
900
1200
1500
1. (CC) gcc options: -lpopt -O2
Dbench 4.0
48 Clients
MB/s, More Is Better
AOS 5.0.4.1
SE +/- 5.12, N = 3
1741.29
5.0.4.1 upgrade to 5.5.1
SE +/- 10.04, N = 3
1760.20
400
800
1200
1600
2000
1. (CC) gcc options: -lpopt -O2
Dbench 4.0
128 Clients
MB/s, More Is Better
AOS 5.0.4.1
SE +/- 18.65, N = 3
3668.18
5.0.4.1 upgrade to 5.5.1
SE +/- 59.54, N = 6
3579.53
800
1600
2400
3200
4000
1. (CC) gcc options: -lpopt -O2
Dbench 4.0
1 Clients
MB/s, More Is Better
AOS 5.0.4.1
SE +/- 2.33, N = 5
163.54
5.0.4.1 upgrade to 5.5.1
SE +/- 2.62, N = 3
187.06
40
80
120
160
200
1. (CC) gcc options: -lpopt -O2

FS-Mark 3.3

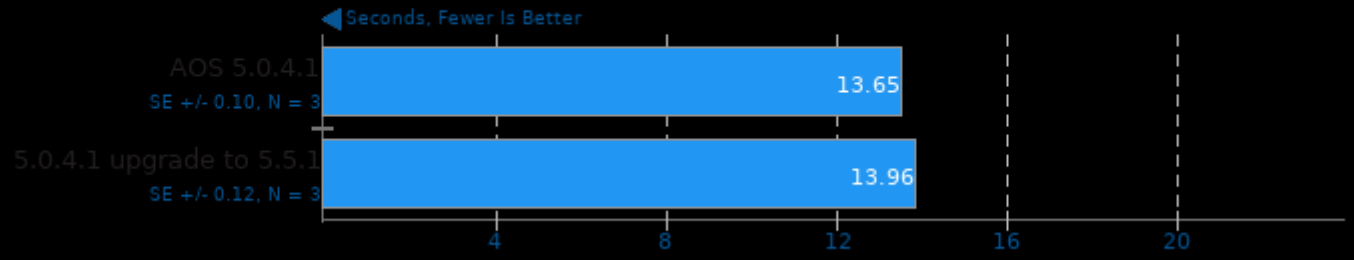
1000 Files, 1MB Size



1. (CC) gcc options: -static

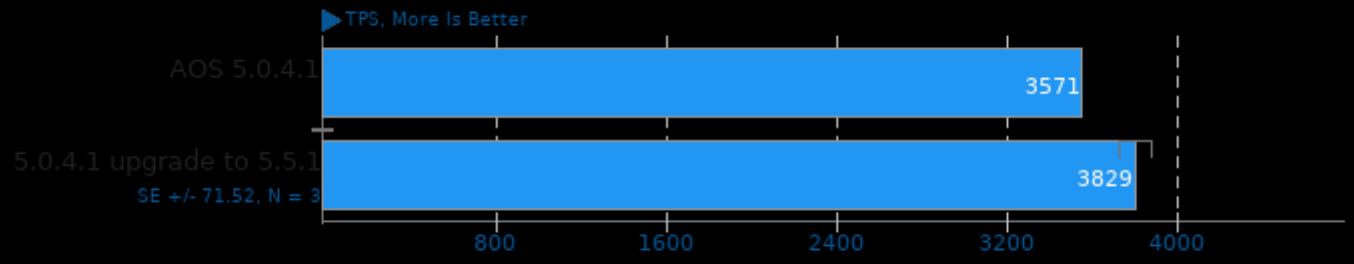
Gzip Compression

2GB File Compression



PostMark 1.51

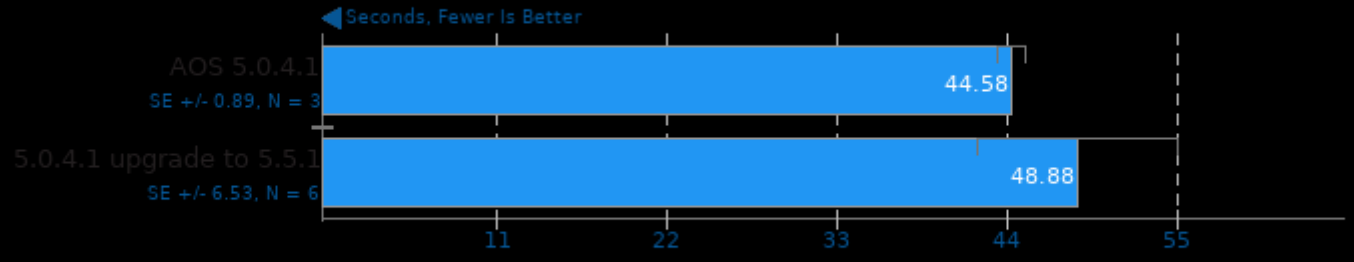
Disk Transaction Performance



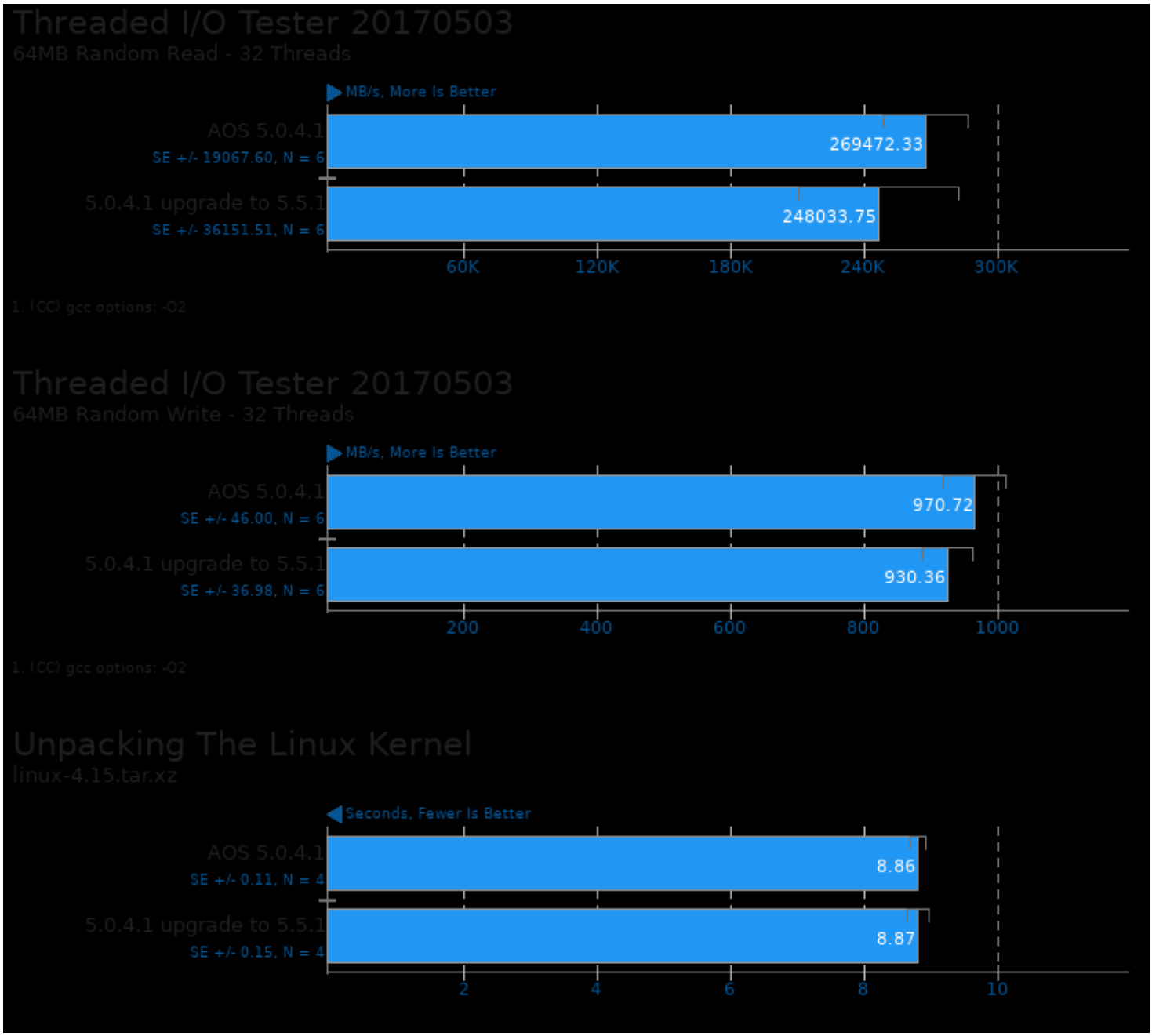
1. (CC) gcc options: -O3

SQLite 3.8.10.2

Timed SQLite Insertions



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


Threaded I/O Tester 20170503
64MB Random Read - 32 Threads
MB/s, More Is Better
AOS 5.0.4.1
SE +/- 19067.60, N = 6
269472.33
5.0.4.1 upgrade to 5.5.1
SE +/- 36151.51, N = 6
248033.75
60K
120K
180K
240K
300K
1. (CC) gcc options: -O2
Threaded I/O Tester 20170503
64MB Random Write - 32 Threads
MB/s, More Is Better
AOS 5.0.4.1
SE +/- 46.00, N = 6
970.72
5.0.4.1 upgrade to 5.5.1
SE +/- 36.98, N = 6
930.36
200
400
600
800
1000
1. (CC) gcc options: -O2
Unpacking The Linux Kernel
linux-4.15.tar.xz
Seconds, Fewer Is Better
AOS 5.0.4.1
SE +/- 0.11, N = 4
8.86
5.0.4.1 upgrade to 5.5.1
SE +/- 0.15, N = 4
8.87
2
4
6
8
10

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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 Friday, 29 March 2024 04:54.