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fedora-phoronix-b

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 66% of the tests.

Based on the geometric mean of all complete results, the fastest (5.0.4.1 upgrade to 5.5.1) was 1.053x the speed of the slowest (AOS 5.0.4.1).

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

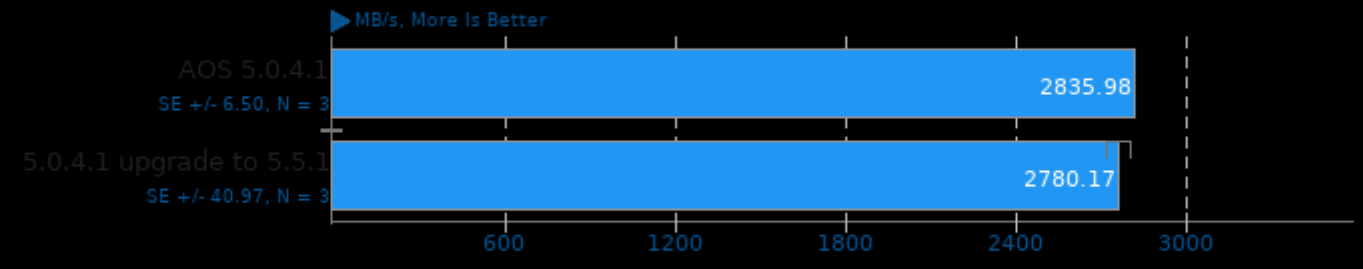
Compiler Notes: --build=x86_64-redhat-linux --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,fortran,ada,go,lto --enable-libmpx --enable-multilib --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)	**2836**	**2780**
Normalized	100%	98.03%
Standard Deviation	0.4%	2.6%
SQLite - T.S.I (sec)	**43.17**	**47.87**
Normalized	100%	90.18%
Standard Deviation	6.8%	44.9%
FS-Mark - 1.F.1.S (Files/s)	**243.78**	**322.17**
Normalized	75.67%	100%
Standard Deviation	16.7%	5.4%
Dbench - 12 Clients (MB/s)	1425	
Standard Deviation	1.2%	
Dbench - 48 Clients (MB/s)	1797	
Standard Deviation	0.2%	
Dbench - 128 Clients (MB/s)	3806	
Standard Deviation	1.1%	
Dbench - 1 Clients (MB/s)	161.81	
Standard Deviation	4.2%	
Threaded I/O Tester - 64MB Rand Read - 32 Threads (MB/s)	275378	
Standard Deviation	21.6%	
Threaded I/O Tester - 64MB Rand Write - 32 Threads (MB/s)	1204	
Standard Deviation	0.8%	
Compile Bench - Compile (MB/s)	1495	

Standard Deviation	10%
Compile Bench - Initial Create (MB/s)	238.22
Standard Deviation	0.7%
Compile Bench - Read Compiled Tree (MB/s)	751.94
Standard Deviation	2.2%
Unpacking The Linux Kernel - linux-4.15.tar.xz (sec)	8.40
Standard Deviation	0.4%
PostMark - D.T.P (TPS)	4098
Gzip Compression - 2.F.C (sec)	13.57
Standard Deviation	0.3%

AIO-Stress 0.21

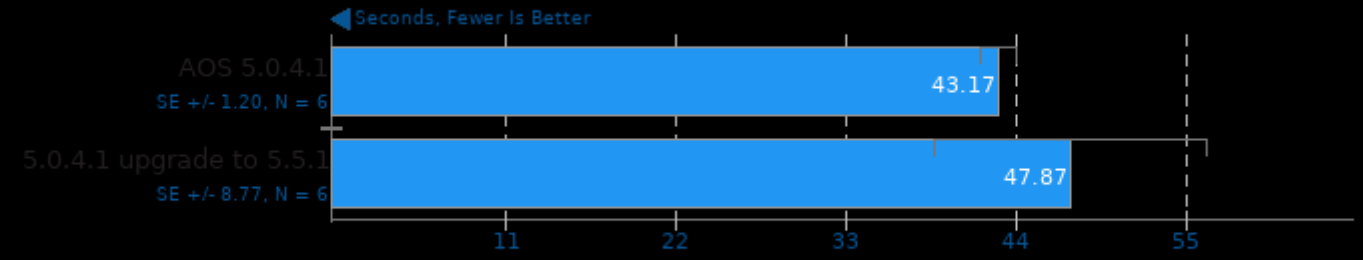
Random Write



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

SQLite 3.8.10.2

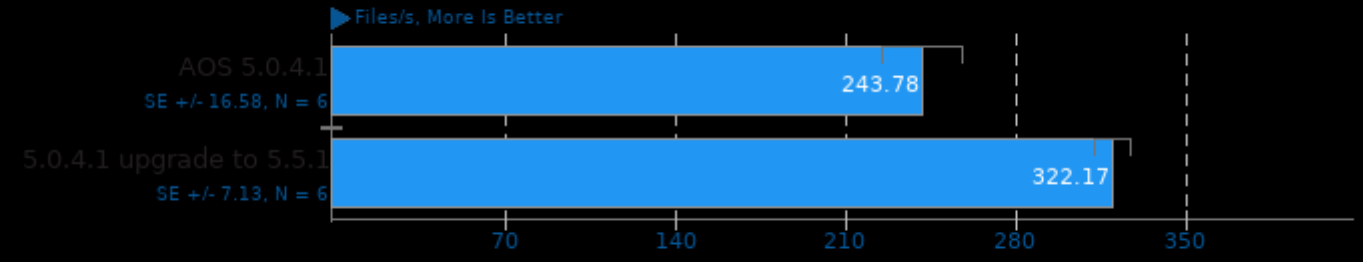
Timed SQLite Insertions



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

FS-Mark 3.3

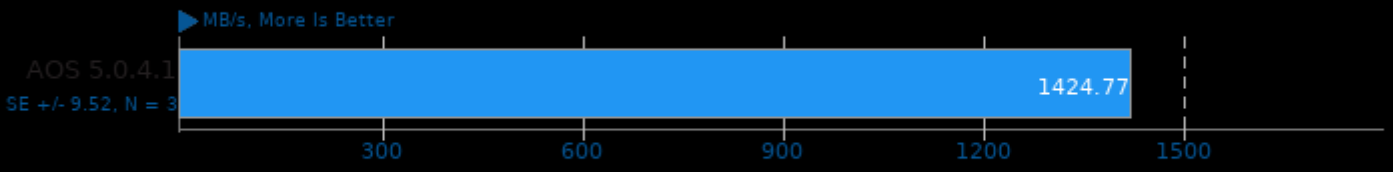
1000 Files, 1MB Size



1. (CC) gcc options: -static

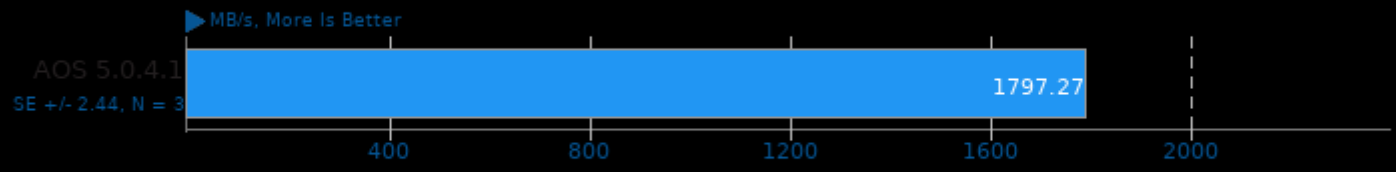
Dbench 4.0

12 Clients



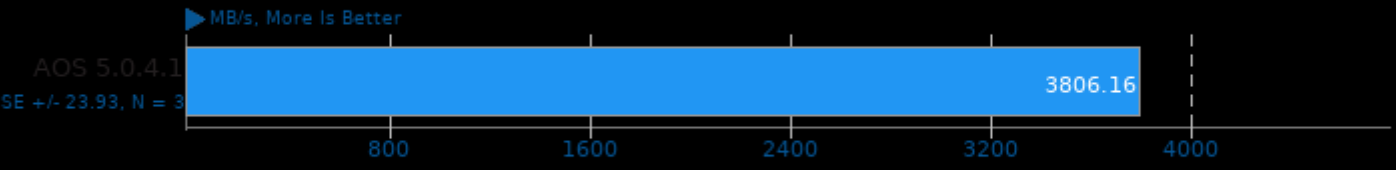
1. (CC) gcc options: -lpopt -O2

Dbench 4.0
48 Clients



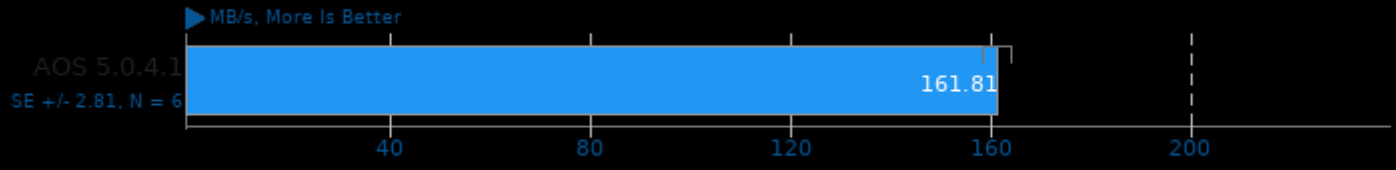
1. (CC) gcc options: -lpopt -O2

Dbench 4.0
128 Clients



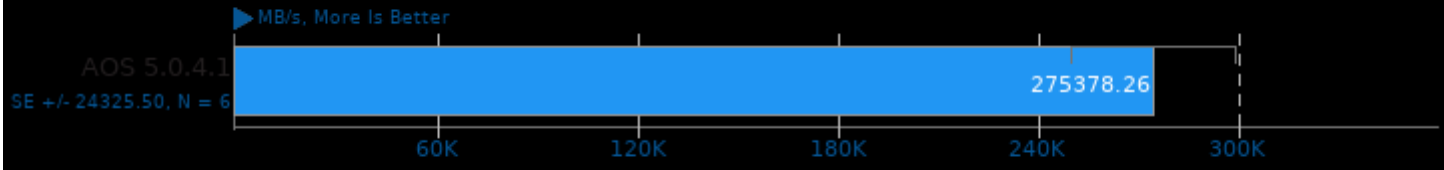
1. (CC) gcc options: -lpopt -O2

Dbench 4.0
1 Clients



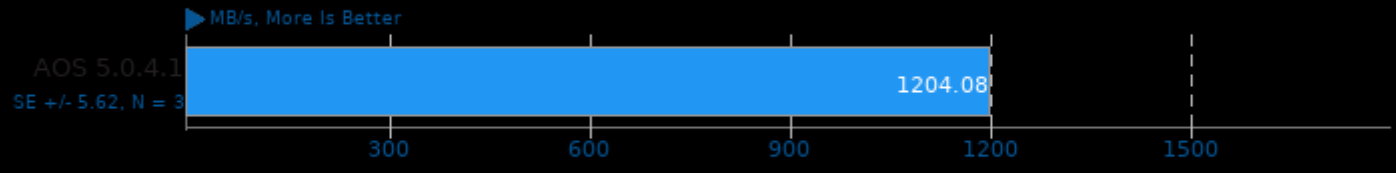
1. (CC) gcc options: -lpopt -O2

Threaded I/O Tester 20170503
64MB Random Read - 32 Threads



1. (CC) gcc options: -O2

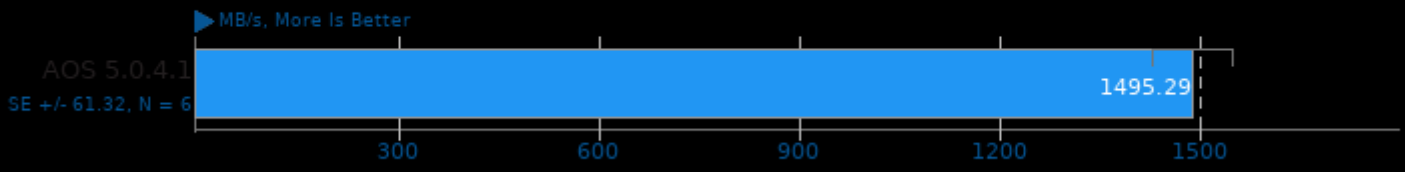
Threaded I/O Tester 20170503
64MB Random Write - 32 Threads



1. (CC) gcc options: -O2

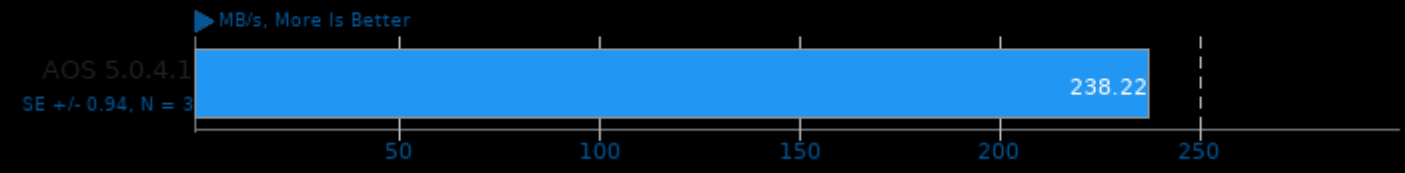
Compile Bench 0.6

Test: Compile



Compile Bench 0.6

Test: Initial Create



Compile Bench 0.6

Test: Read Compiled Tree



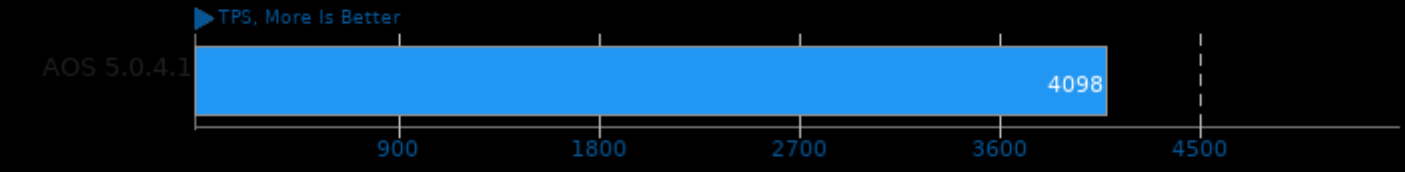
Unpacking The Linux Kernel

linux-4.15.tar.xz



PostMark 1.51

Disk Transaction Performance



1. (CC) gcc options: -O3

Gzip Compression

2GB File Compression



fedora-phoronix-b

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 19:46.