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Linux 2.6.35 File-Systems

Running pts/sqlite-1.8.0, pts/pgbench-1.2.0, pts/compilebench-1.0.0, pts/iozone-1.7.0, pts/dbench-1.0.0, pts/fs-mark-1.0.0, pts/fio-1.1.0, pts/tiobench-1.1.0, pts/postmark-1.0.0, pts/aio-stress-1.1.0, pts/unpack-linux-1.0.0.

Automated Executive Summary

Linux 2.6.35: EXT4 had the most wins, coming in first place for 84% of the tests.

Based on the geometric mean of all complete results, the fastest (Linux 2.6.35: EXT4) was 1.748x the speed of the slowest (Linux 2.6.35: Btrfs).

Test Systems:

Linux 2.6.35: EXT4

Processor: Intel Core i7-2820QM @ 2.30GHz (8 Cores), Motherboard: System76 Serval Professional, Chipset: Intel Sandy Bridge, Memory: 8192MB, Disk: 80GB INTEL SSDSA2M080, Graphics: NVIDIA Device 0e31, Audio: Realtek ALC892

Linux 2.6.35 File-Systems

OS: Ubuntu 10.10, Kernel: 2.6.35-22-generic (x86_64), Desktop: GNOME 2.32.0, Display Server: X Server 1.9.0, Display Driver: vesa 2.3.0, Compiler: GCC 4.4.5, File-System: ext4, Screen Resolution: 800x600

System Notes: Disk Scheduler: CFQ. Python 2.6.6. Intel SpeedStep was enabled.

Linux 2.6.35: Btrfs

Processor: Intel Core i7-2820QM @ 2.30GHz (8 Cores), Motherboard: System76 Serval Professional, Chipset: Intel Sandy Bridge, Memory: 8192MB, Disk: 80GB INTEL SSDSA2M080, Graphics: NVIDIA Device 0e31, Audio: Realtek ALC892

OS: Ubuntu 10.10, Kernel: 2.6.35-22-generic (x86_64), Desktop: GNOME 2.32.0, Display Server: X Server 1.9.0, Display Driver: vesa 2.3.0, Compiler: GCC 4.4.5, File-System: btrfs, Screen Resolution: 800x600

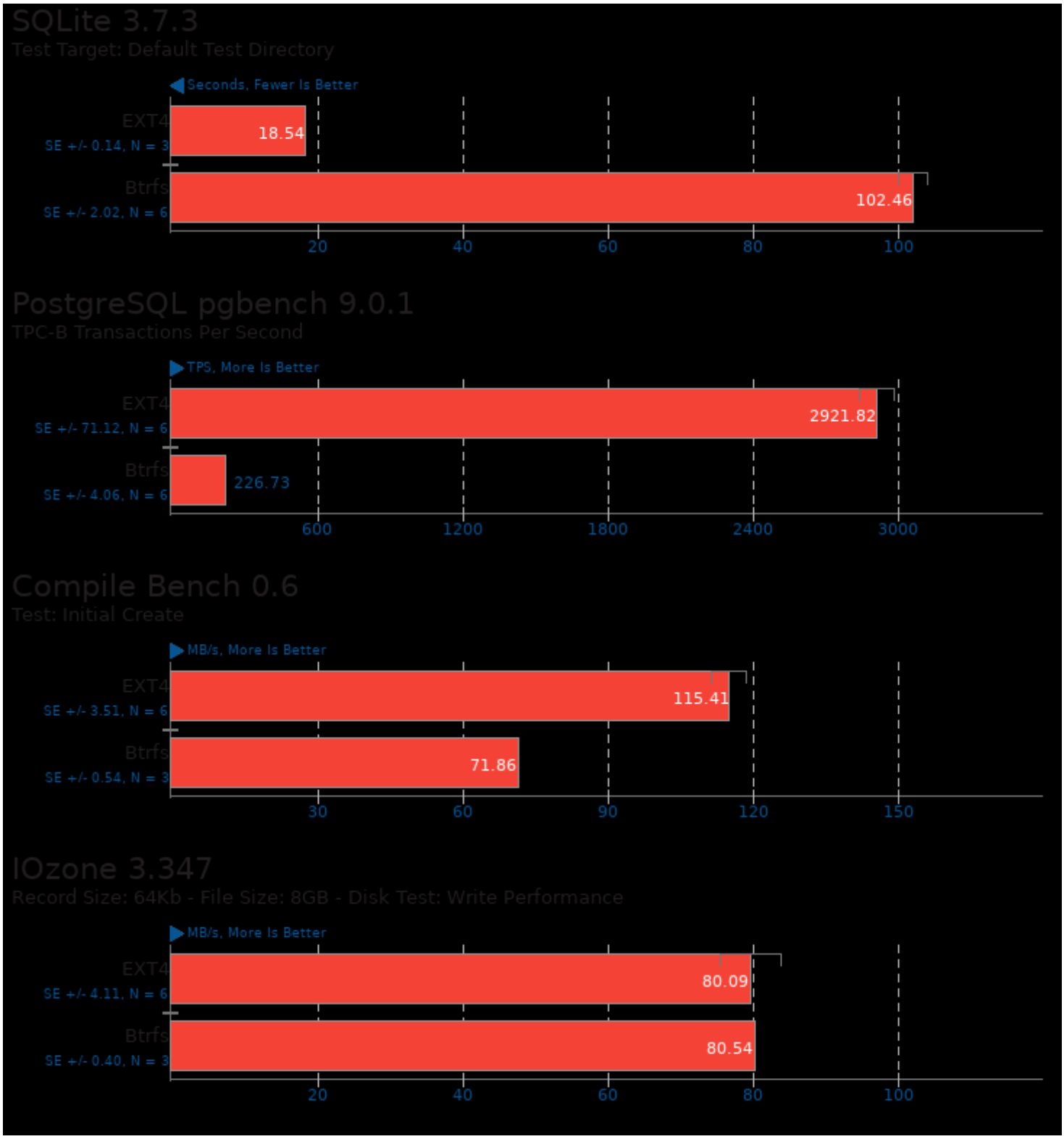
System Notes: Disk Scheduler: CFQ. Python 2.6.6. Intel SpeedStep was enabled.

	Linux 2.6.35: EXT4	Linux 2.6.35: Btrfs
SQLite - D.T.D (sec)	**18.54**	**102.46**
Normalized	100%	18.09%
Standard Deviation	1.4%	4.8%
PostgreSQL pgbench - T.B.T.P.S (TPS)	**2922**	**226.73**
Normalized	100%	7.76%
Standard Deviation	6%	4.4%
Compile Bench - Initial Create (MB/s)	**115.41**	**71.86**
Normalized	100%	62.26%
Standard Deviation	7.4%	1.3%
IOzone - 64Kb - 8GB - Write Performance (MB/s)	**80.09**	**80.54**
Normalized	99.44%	100%
Standard Deviation	12.6%	0.9%
IOzone - 1MB - 8GB - Write Performance (MB/s)	**83.17**	**84.54**
Normalized	98.38%	100%
Standard Deviation	1%	0.4%
FS-Mark - 1.F.1.S (Files/s)	**63.85**	**36.27**
Normalized	100%	56.81%
Standard Deviation	3.1%	2.9%
FS-Mark - 1.F.1.S.N.S.F (Files/s)	**266.60**	**253.37**
Normalized	100%	95.04%
Standard Deviation	6.3%	14.5%
Flexible IO Tester - I.I.F.S.A.P (sec (Run Time))	**54.70**	**57.48**
Normalized	100%	95.16%
Standard Deviation	1.2%	1.4%
Threaded I/O Tester - Rand Write - 128MB - 4 (MB/s)	**80.01**	**48.68**
Normalized	100%	60.84%
Standard Deviation	0.9%	41.4%
Threaded I/O Tester - Rand Write - 128MB - 32 (MB/s)	**77.82**	**52.59**
Normalized	100%	67.58%
Standard Deviation	4.2%	21.2%
PostMark - D.T.P (TPS)	**4917**	**3928**
Normalized	100%	79.89%
Standard Deviation	5.4%	7.8%

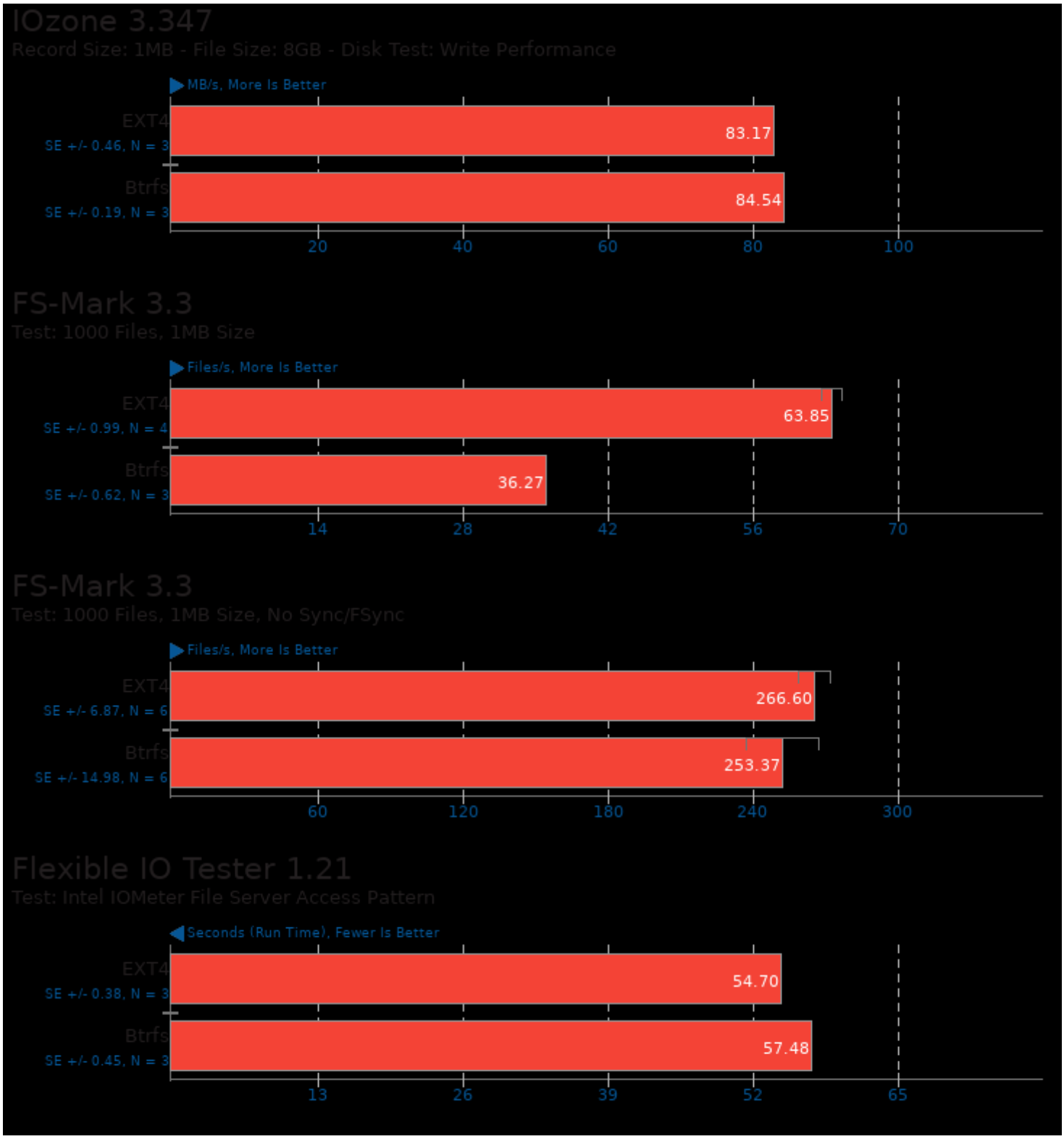
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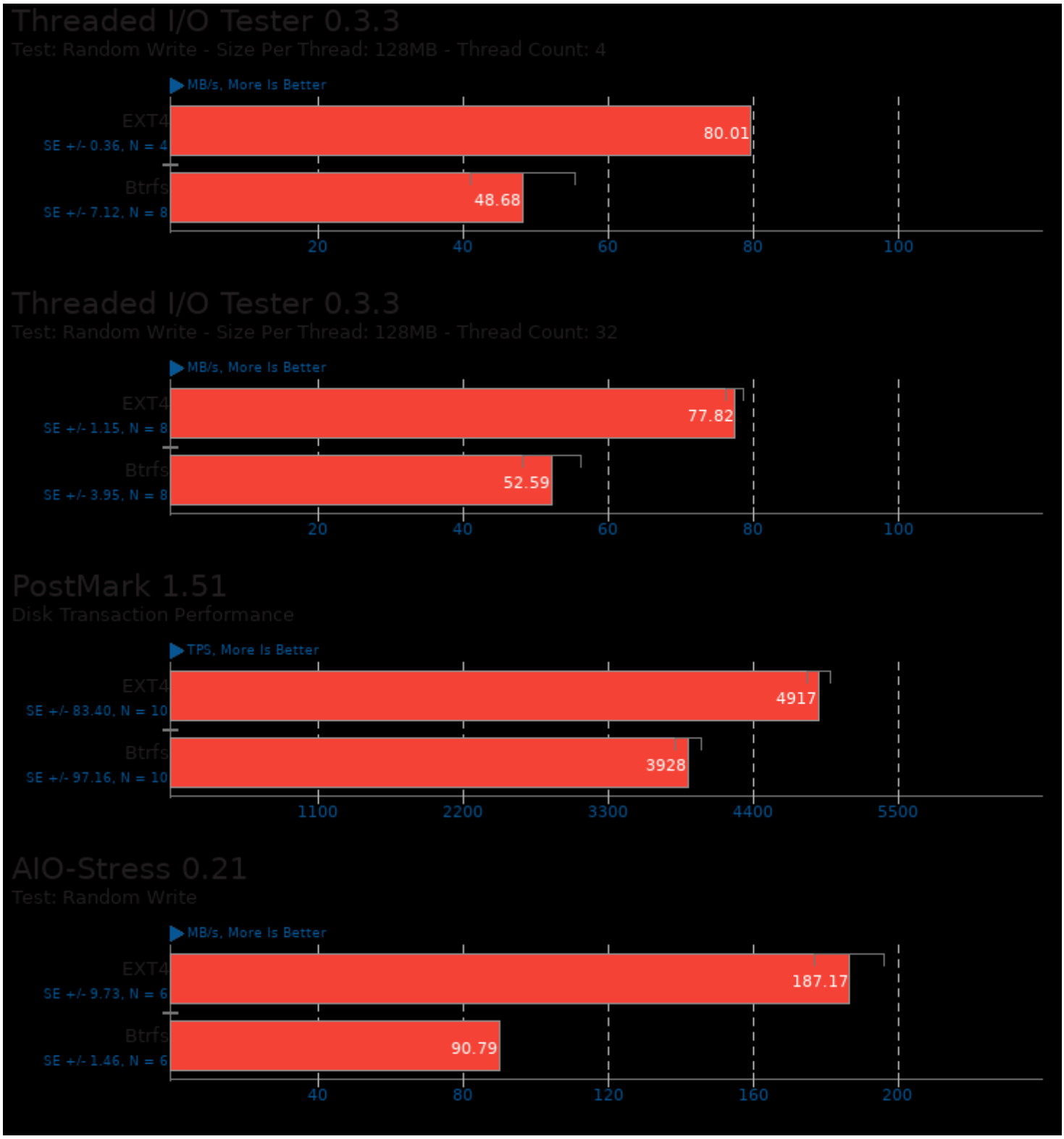
AIO-Stress - Rand Write (MB/s)	**187.17**	**90.79**
Normalized	100%	48.51%
Standard Deviation	12.7%	3.9%
Unpacking The Linux Kernel - linux-2.6.32.tar.bz2	**10.28**	**10.70**
Normalized	100%	96.07%
Standard Deviation	3.5%	1.4%

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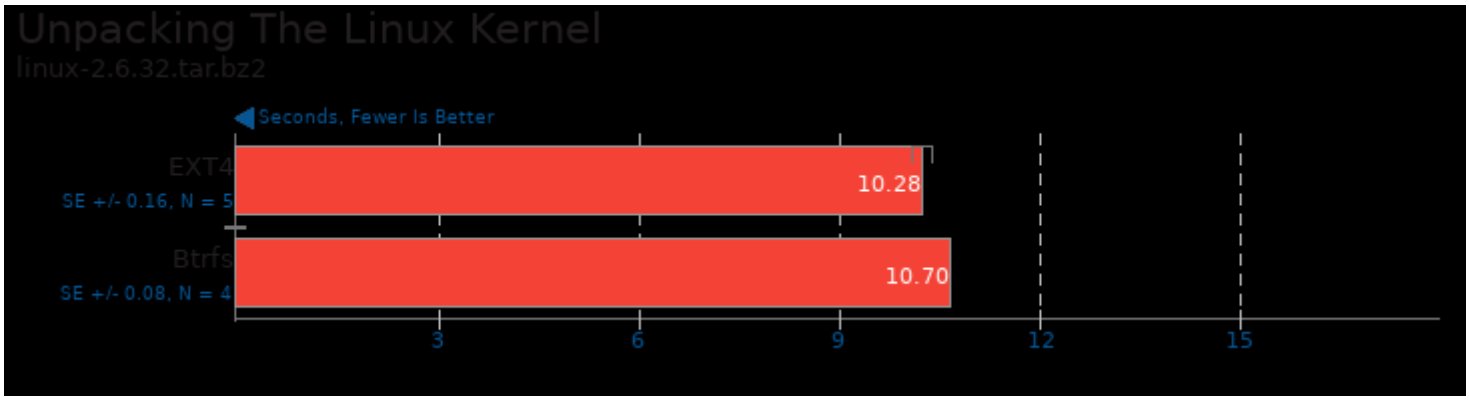


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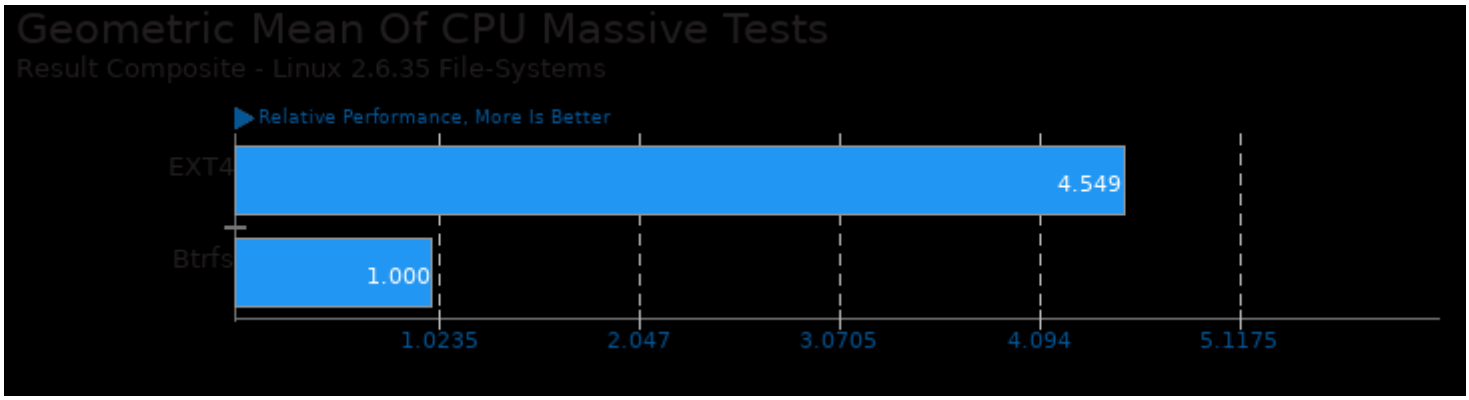

Threaded I/O Tester 0.3.3
Test: Random Write - Size Per Thread: 128MB - Thread Count: 4
MB/s, More Is Better
EXT4
SE +/- 0.36, N = 4
80.01
Btrfs
SE +/- 7.12, N = 8
48.68
20
40
60
80
100
Threaded I/O Tester 0.3.3
Test: Random Write - Size Per Thread: 128MB - Thread Count: 32
MB/s, More Is Better
EXT4
SE +/- 1.15, N = 8
77.82
Btrfs
SE +/- 3.95, N = 8
52.59
20
40
60
80
100
PostMark 1.51
Disk Transaction Performance
TPS, More Is Better
EXT4
SE +/- 83.40, N = 10
4917
Btrfs
SE +/- 97.16, N = 10
3928
1100
2200
3300
4400
5500
AIO-Stress 0.21
Test: Random Write
MB/s, More Is Better
EXT4
SE +/- 9.73, N = 6
187.17
Btrfs
SE +/- 1.46, N = 6
90.79
40
80
120
160
200

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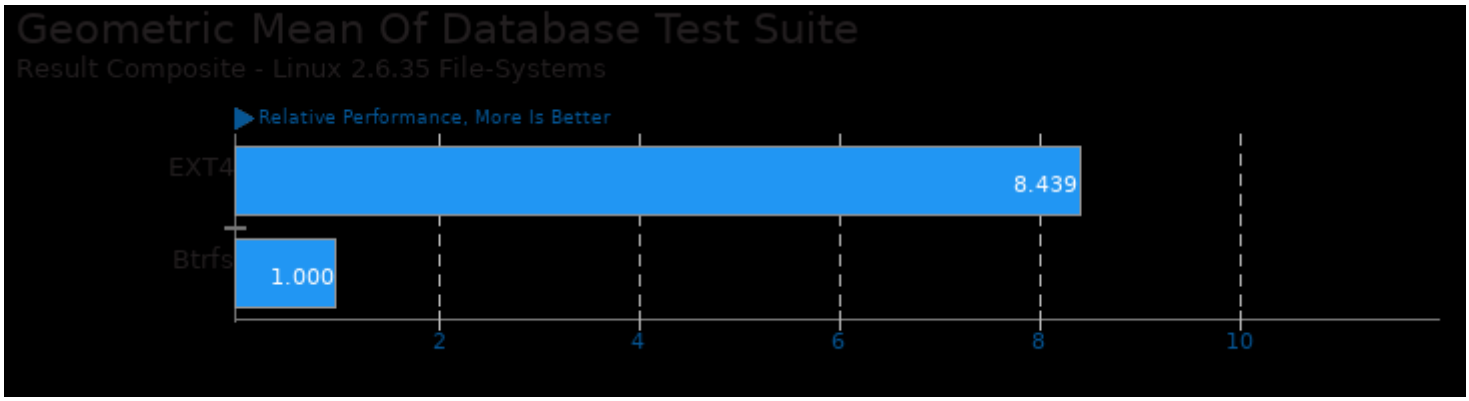


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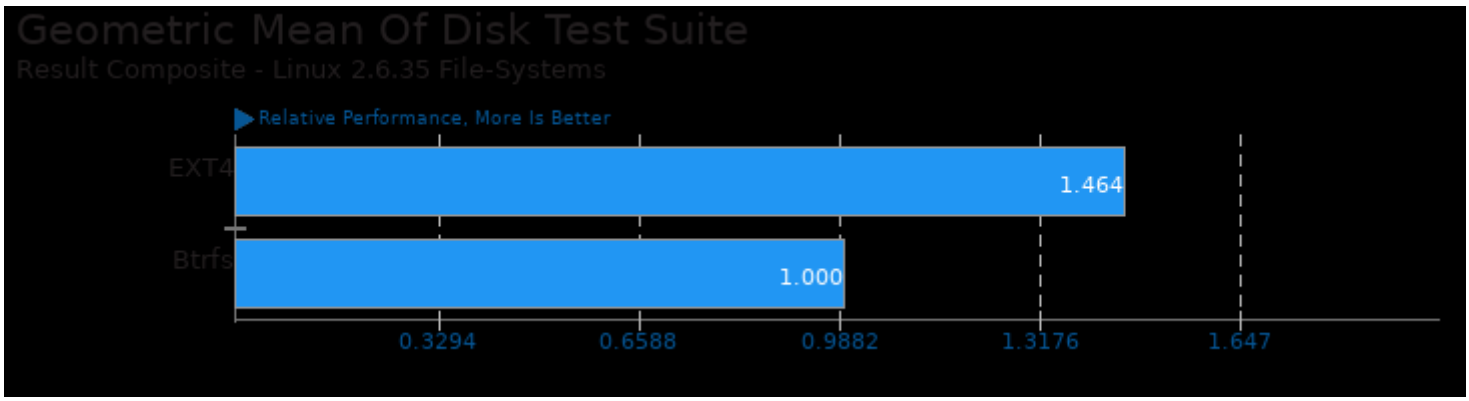
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/compilebench and pts/pgbench

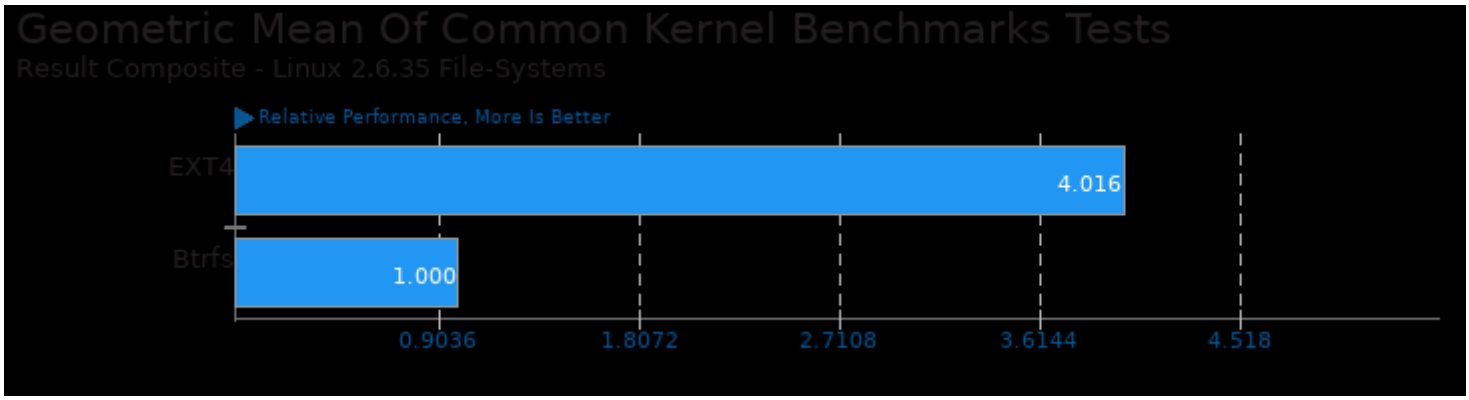


Geometric mean based upon tests: pts/sqlite and pts/pgbench

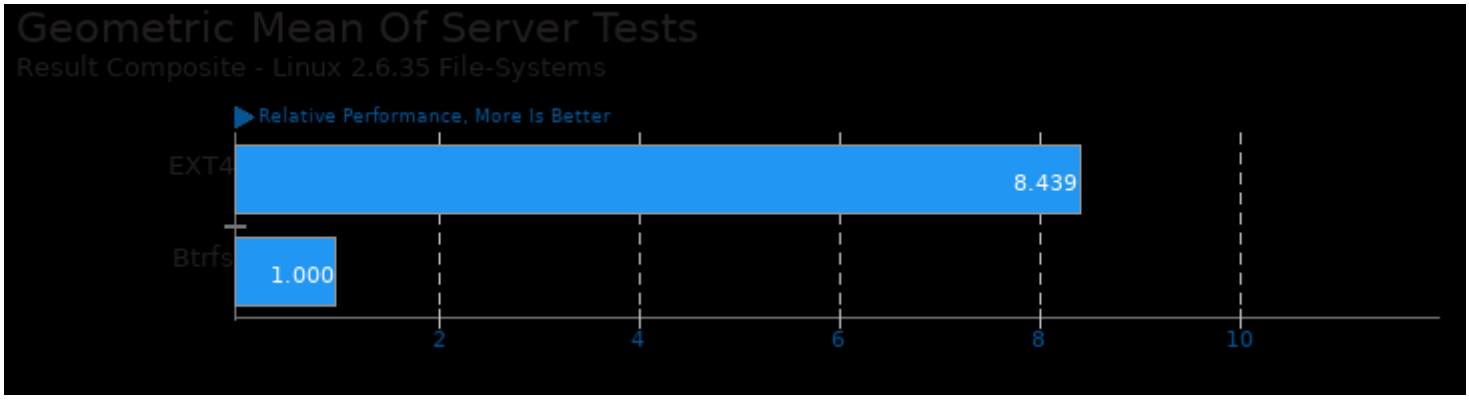


Geometric mean based upon tests: pts/sqlite, pts/fs-mark, pts/compilebench, pts/iozone, pts/postmark and pts/fio

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Geometric mean based upon tests: pts/postmark and pts/pgbench



Geometric mean based upon tests: pts/pgbench and pts/sqlite

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 04:54.