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mirrornocache

Mirror Without Cache 1M Sequential

Automated Executive Summary

Mirror without Cache had the most wins, coming in first place for 87% of the tests.

Test Systems:

Mirror without Cache

Sabrent

Mirror Without Cache

Mirror No Cache 1M Sequential

Processor: Intel Core i5-6300U @ 3.00GHz (2 Cores / 4 Threads), Motherboard: LENOVO 20JSS0KS00 (N1WET63W

1.42 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 12GB, Disk: 256GB Sabrent + 0GB SD/MMC, Graphics: Intel HD 520 SKL GT2 3GB (1000MHz), Audio: Realtek ALC298, Network: Intel I219-LM + Intel 8260

OS: Ubuntu 22.04, Kernel: 5.15.0-33-generic (x86_64), Desktop: GNOME Shell 42.0, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.0.1, Compiler: GCC 11.2.0, File-System: nfs, Screen Resolution: 1920x1080

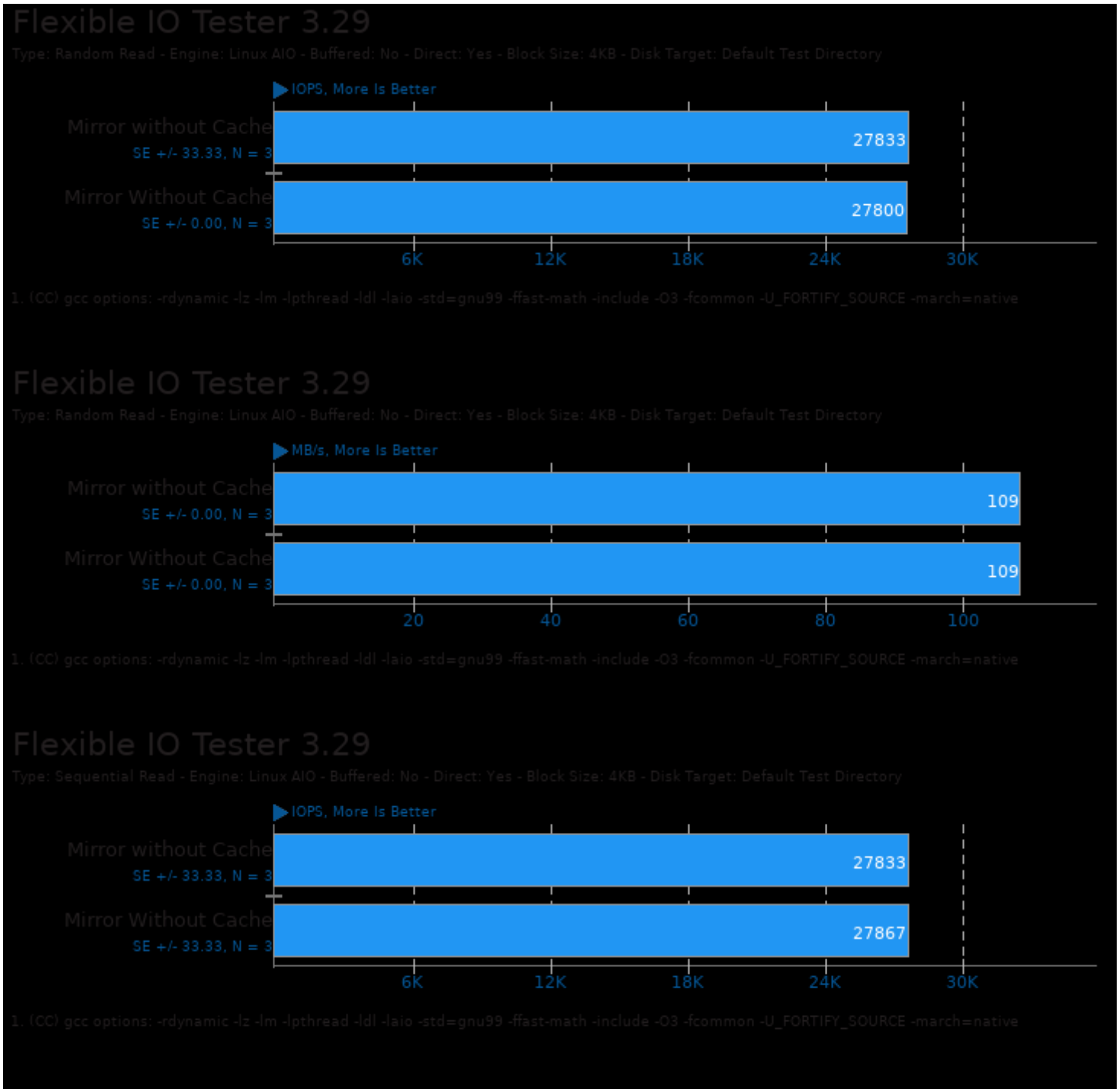
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-gcn/usr --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Disk Notes: NONE / errors=remount-ro,relatime,rw / Block Size: 1048576
Processor Notes: Scaling Governor: intel_pstate powersave (EPP: performance) - CPU Microcode: 0xea - Thermald 2.4.9
Security Notes: itlb_multihit: KVM: Mitigation of VMX unsupported + l1tf: Mitigation of PTE Inversion + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Mitigation of Microcode + tsx_async_abort: Mitigation of TSX disabled

	Mirror without Cache	Sabrent	Mirror Without Cache	Mirror No Cache 1M Sequential
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB (IOPS)	**27833**		**27800**	
Normalized	100%		99.88%	
Standard Deviation	0.2%		0%	
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB (MB/s)	109		109	
Standard Deviation	0%		0%	
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (IOPS)	**27833**		**27867**	
Normalized	99.88%		100%	
Standard Deviation	0.2%		0.2%	
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (MB/s)	109		109	
Standard Deviation	0%		0%	
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 1MB (IOPS)				109
Standard Deviation				0%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 1MB (MB/s)				112
Standard Deviation				0%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 1MB (IOPS)				30
Standard Deviation				0%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 1MB (MB/s)				33.6
Standard Deviation				0.5%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB (IOPS)	104		104	
Standard Deviation	1.1%		3.1%	

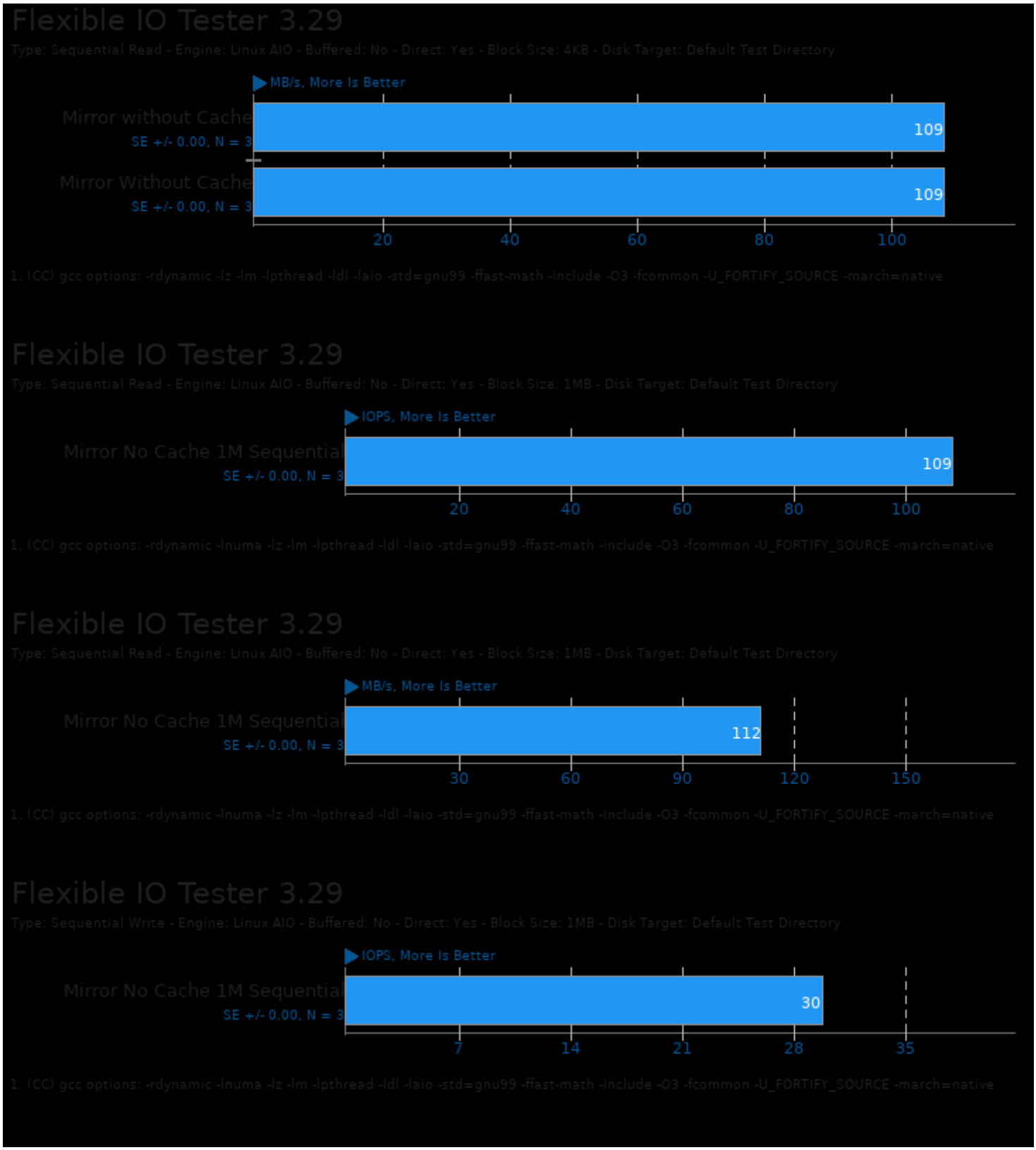
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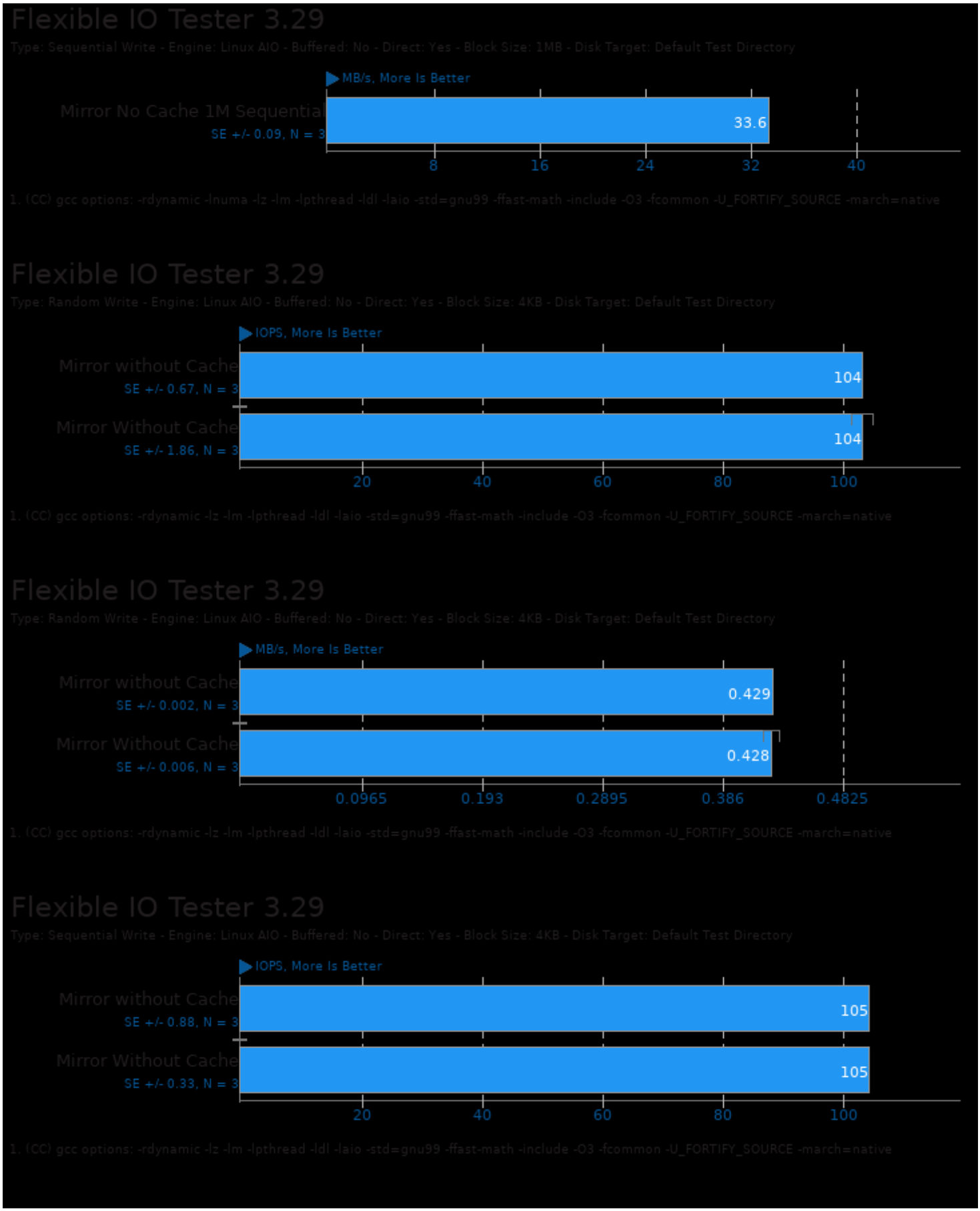
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB (MB/s)	**0.429**	**0.428**
Normalized	100%	99.77%
Standard Deviation	0.9%	2.5%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (IOPS)	105	105
Standard Deviation	1.5%	0.6%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (MB/s)	**0.436**	**0.433**
Normalized	100%	99.31%
Standard Deviation	1.1%	0.9%

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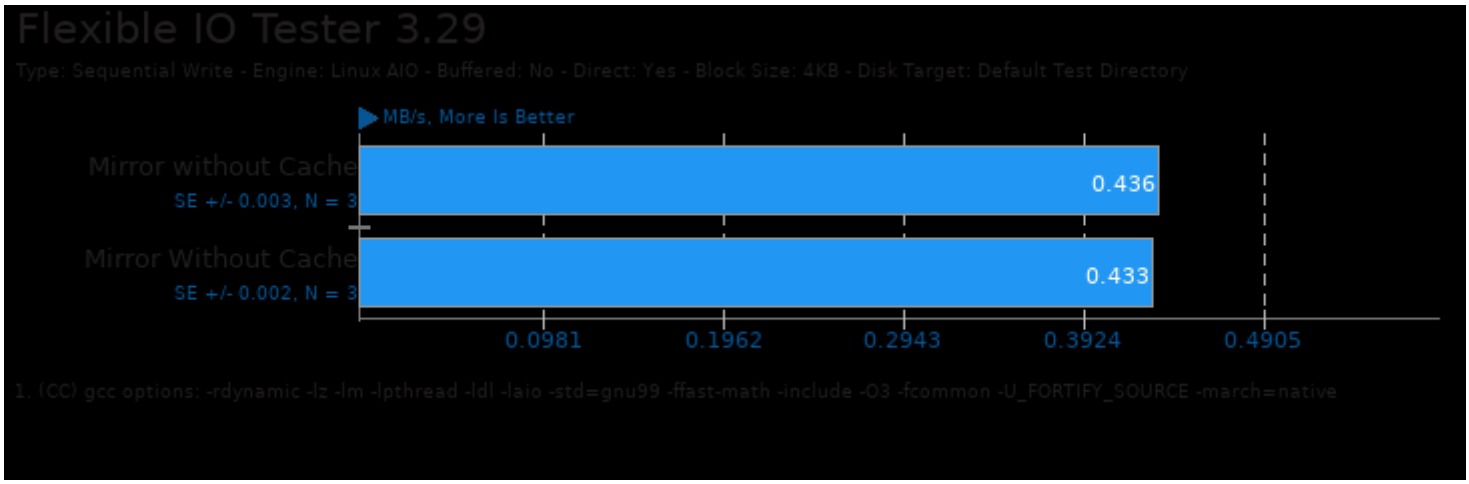


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Flexible IO Tester 3.29
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
MB/s, More Is Better
Mirror No Cache 1M Sequential
SE +/- 0.09, N = 3
33.6
8
16
24
32
40
1. (CC) gcc options: -rdynamic -lnuma -lz -lm -lpthread -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.29
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
Mirror without Cache
SE +/- 0.67, N = 3
104
Mirror Without Cache
SE +/- 1.86, N = 3
104
20
40
60
80
100
1. (CC) gcc options: -rdynamic -lz -lm -lpthread -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.29
Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
Mirror without Cache
SE +/- 0.002, N = 3
0.429
Mirror Without Cache
SE +/- 0.006, N = 3
0.428
0.0965
0.193
0.2895
0.386
0.4825
1. (CC) gcc options: -rdynamic -lz -lm -lpthread -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.29
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
Mirror without Cache
SE +/- 0.88, N = 3
105
Mirror Without Cache
SE +/- 0.33, N = 3
105
20
40
60
80
100
1. (CC) gcc options: -rdynamic -lz -lm -lpthread -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 04:42.