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fio-disk-3700x

AMD Ryzen 9 5900X 12-Core testing with a MSI MPG X570 GAMING EDGE WIFI (MS-7C37) v1.0 (1.I0 BIOS) and NAVI24 4GB on Ubuntu 22.04 via the Phoronix Test Suite.

Automated Executive Summary

fio 5900x had the most wins, coming in first place for 66% of the tests.

Based on the geometric mean of all complete results, the fastest (fio disk 3700x) was 1.068x the speed of the slowest (fio 5900x).

The results with the greatest spread from best to worst included:

Flexible IO Tester (Type: Random Read - Engine: Sync - Buffered: No - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory) at 3.236x
Flexible IO Tester (Type: Random Read - Engine: Sync - Buffered: No - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory) at 3.232x
Flexible IO Tester (Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory) at 2.96x
Flexible IO Tester (Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory) at 2.96x
Flexible IO Tester (Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk

Target: Default Test Directory) at 1.825x
Flexible IO Tester (Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory) at 1.824x
Flexible IO Tester (Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 128KB - Disk Target: Default Test Directory) at 1.433x
Flexible IO Tester (Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 128KB - Disk Target: Default Test Directory) at 1.432x
Flexible IO Tester (Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 128KB - Disk Target: Default Test Directory) at 1.4x
Flexible IO Tester (Type: Random Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 128KB - Disk Target: Default Test Directory) at 1.4x.

Test Systems:

fio disk 3700x

Processor: AMD Ryzen 7 3700X 8-Core @ 3.60GHz (8 Cores / 16 Threads), Motherboard: MSI MPG X570 GAMING EDGE WIFI (MS-7C37) v1.0 (1.I0 BIOS), Chipset: AMD Starship/Matisse, Memory: 64GB, Disk: 2 x 1000GB Samsung SSD 980 PRO 1TB + Samsung SSD 970 EVO Plus 500GB, Graphics: NAVI24 4GB (2975/1124MHz), Audio: AMD Navi 21 HDMI Audio, Monitor: PHL BDM3270 + ASUS VK266H, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Ubuntu 22.04, Kernel: 5.15.0-53-generic (x86_64), Desktop: GNOME Shell 42.5, Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 22.3.0-rc4 (LLVM 14.0.0 DRM 3.42 5.15.0-53-generic), Vulkan: 1.3.230, Compiler: GCC 11.3.0 + Clang 14.0.0-1ubuntu1 + LLVM 14.0.0, File-System: zfs, Screen Resolution: 4480x1440

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: NVM_CD_FLAGS=
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-xKiWfi/gcc-11-11.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/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
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x8701021
Disk Scheduler Notes: NONE
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

fio 5900x

Processor: AMD Ryzen 9 5900X 12-Core @ 3.70GHz (12 Cores / 24 Threads), Motherboard: MSI MPG X570 GAMING EDGE WIFI (MS-7C37) v1.0 (1.I0 BIOS), Chipset: AMD Starship/Matisse, Memory: 64GB, Disk: 2 x 1000GB Samsung SSD 980 PRO 1TB + Samsung SSD 970 EVO Plus 500GB, Graphics: NAVI24 4GB (2975/1124MHz), Audio: AMD Navi 21 HDMI Audio, Monitor: PHL BDM3270 + ASUS VK266H, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Ubuntu 22.04, Kernel: 5.15.0-53-generic (x86_64), Desktop: GNOME Shell 42.5, Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 22.3.0-rc4 (LLVM 14.0.0 DRM 3.42 5.15.0-53-generic), Vulkan: 1.3.230, Compiler: GCC 11.3.0 +

fio-disk-3700x

Clang 14.0.0-1ubuntu1 + LLVM 14.0.0, File-System: zfs, Screen Resolution: 4480x1440

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: NVM_CD_FLAGS=
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-xKiWfi/gcc-11-11.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/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
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa20120a
Disk Scheduler Notes: NONE
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

	fio disk 3700x	fio 5900x
Flexible IO Tester - Rand Read - Sync - No - No - 1MB (IOPS)	**11567**	**8340**
Normalized	100%	72.1%
Standard Deviation	0.5%	1.8%
Flexible IO Tester - Rand Read - Sync - No - No - 2MB (IOPS)	**5733**	**4175**
Normalized	100%	72.82%
Standard Deviation	0.8%	0.5%
Flexible IO Tester - Rand Read - Sync - No - No - 4KB (MB/s)	**1225**	**379**
Normalized	100%	30.94%
Standard Deviation	1.2%	0.6%
Flexible IO Tester - Rand Read - Sync - No - No - 4KB (IOPS)	**313667**	**96933**
Normalized	100%	30.9%
Standard Deviation	1.3%	0.6%
Flexible IO Tester - Rand Read - Sync - No - No - 4MB (IOPS)	**2865**	**2094**
Normalized	100%	73.09%
Standard Deviation	0.2%	0.8%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 1MB (MB/s)	**7362**	**5772**
Normalized	100%	78.4%
Standard Deviation	0.1%	0.8%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 1MB (IOPS)	**7358**	**5768**
Normalized	100%	78.39%
Standard Deviation	0.1%	0.8%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB (MB/s)	**1116**	**377**
Normalized	100%	33.78%
Standard Deviation	0.1%	1.6%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB (IOPS)	**285667**	**96500**
Normalized	100%	33.78%

fio-disk-3700x

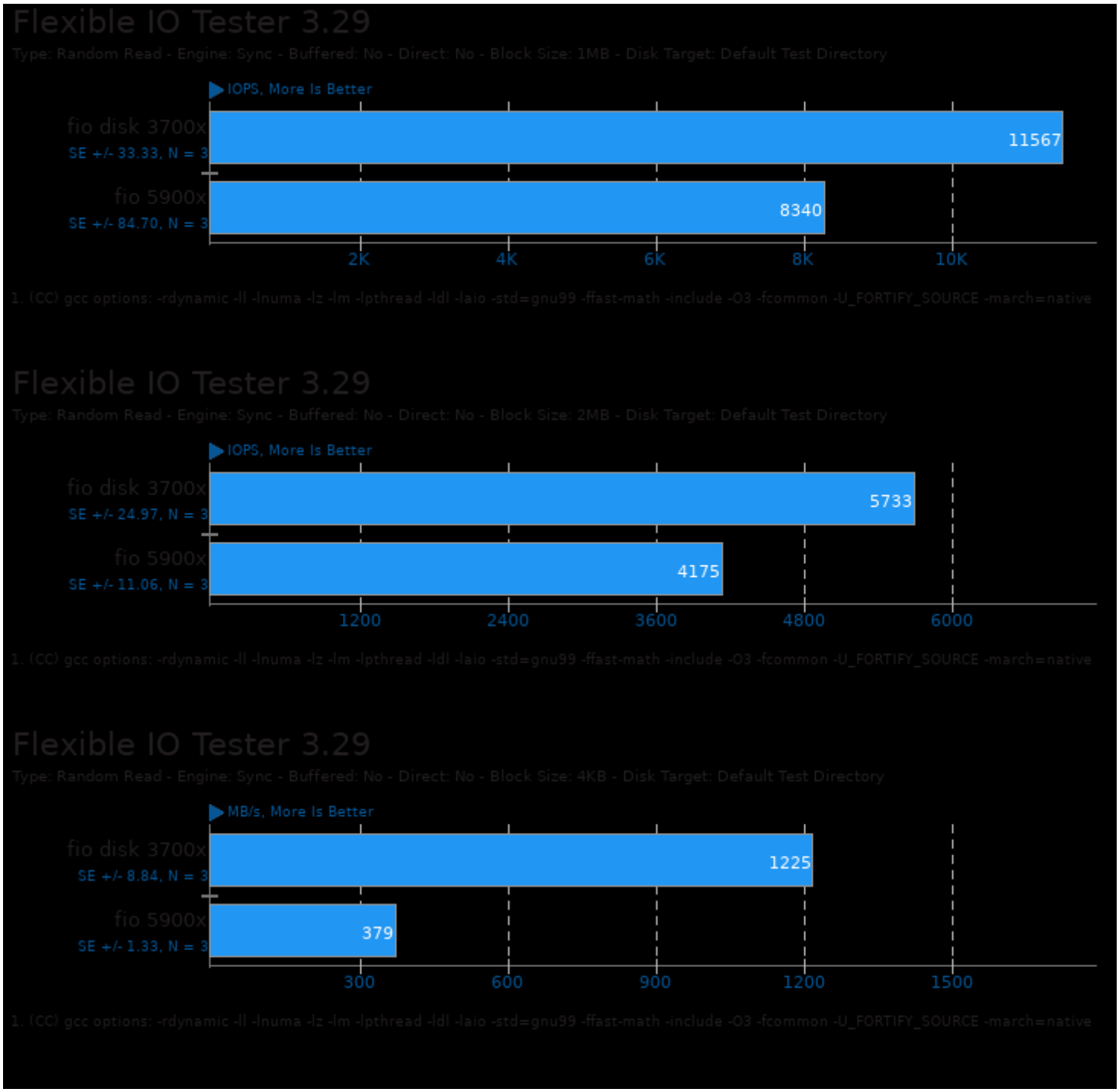
Standard Deviation	0.2%	1.6%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 64KB (MB/s)	**8610**	**4717**
Normalized	100%	54.79%
Standard Deviation	0.3%	2.5%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 64KB (IOPS)	**137667**	**75456**
Normalized	100%	54.81%
Standard Deviation	0.4%	2.5%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 1MB (MB/s)	**4771**	**5259**
Normalized	90.72%	100%
Standard Deviation	1.4%	2.5%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 1MB (IOPS)	**4767**	**5256**
Normalized	90.7%	100%
Standard Deviation	1.4%	2.5%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB (MB/s)	**483**	**531**
Normalized	90.96%	100%
Standard Deviation	1.4%	10.1%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB (IOPS)	**123667**	**135933**
Normalized	90.98%	100%
Standard Deviation	1.7%	10.1%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 128KB (IOPS)	**82200**	**59733**
Normalized	100%	72.67%
Standard Deviation	0.4%	1.7%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 64KB (MB/s)	**3546**	**4714**
Normalized	75.22%	100%
Standard Deviation	2.4%	5.4%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 64KB (IOPS)	**56700**	**75427**
Normalized	75.17%	100%
Standard Deviation	2.4%	5.4%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 128KB (MB/s)	**4312**	**6038**
Normalized	71.41%	100%
Standard Deviation	0.9%	0.4%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 128KB (IOPS)	**34500**	**48300**
Normalized	71.43%	100%
Standard Deviation	0.9%	0.4%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 1MB (MB/s)	**5030**	**5757**
Normalized	87.37%	100%
Standard Deviation	0.8%	0.4%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 1MB (IOPS)	**5027**	**5753**
Normalized	87.38%	100%
Standard Deviation	0.8%	0.4%

fio-disk-3700x

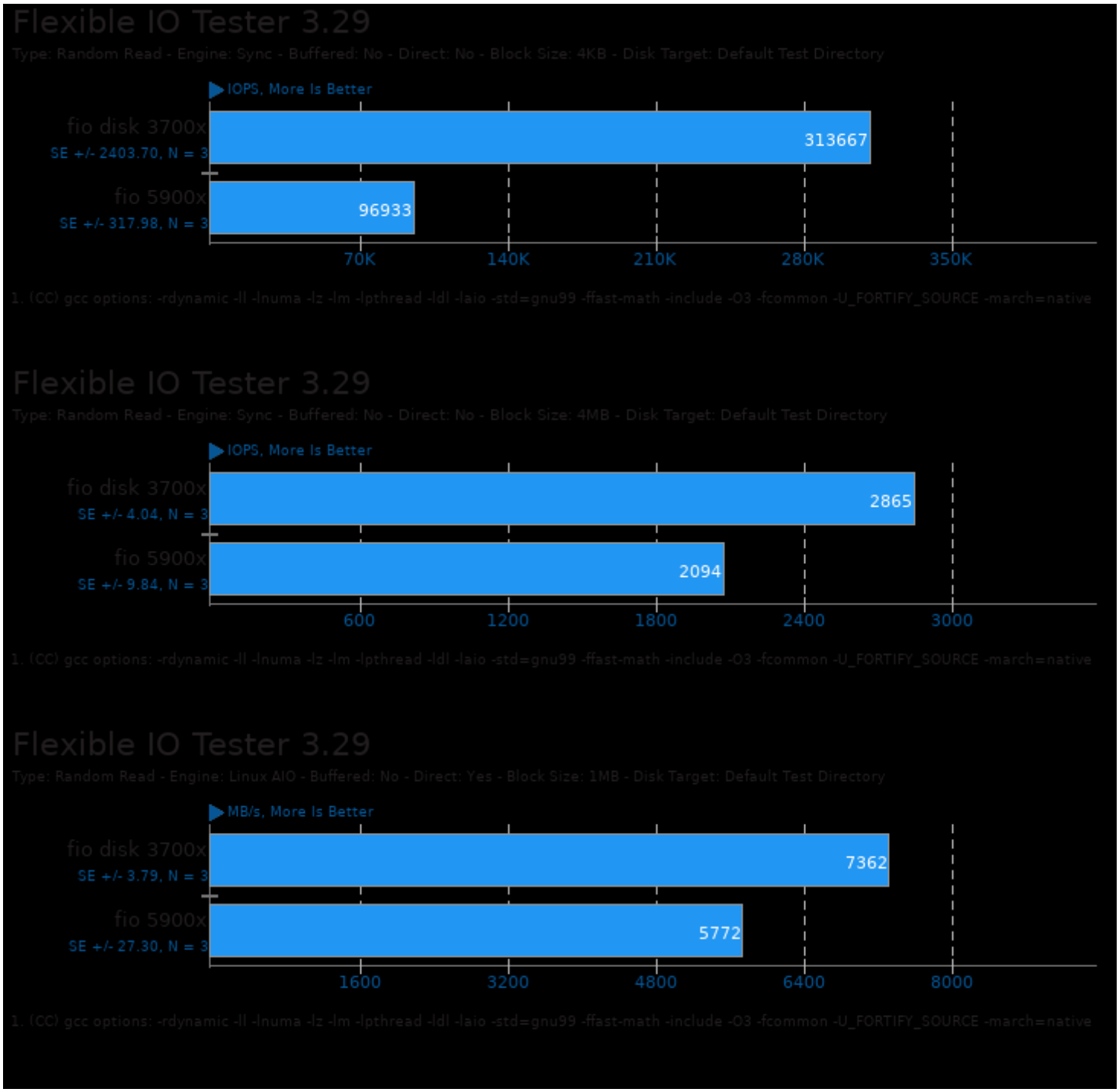
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (MB/s)	**1490**	**1837**
Normalized	81.11%	100%
Standard Deviation	0.5%	1.2%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (IOPS)	**381333**	**470333**
Normalized	81.08%	100%
Standard Deviation	0.5%	1.3%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 64KB (MB/s)	**6137**	**7031**
Normalized	87.28%	100%
Standard Deviation	1.7%	1.1%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 64KB (IOPS)	**98167**	**112667**
Normalized	87.13%	100%
Standard Deviation	1.7%	1.4%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 1MB (MB/s)	**4412**	**5096**
Normalized	86.58%	100%
Standard Deviation	0.5%	2.4%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 1MB (IOPS)	**4409**	**5092**
Normalized	86.59%	100%
Standard Deviation	0.5%	2.4%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (MB/s)	**852**	**989**
Normalized	86.15%	100%
Standard Deviation	0.8%	0.4%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (IOPS)	**218000**	**253333**
Normalized	86.05%	100%
Standard Deviation	0.8%	0.5%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 128KB (MB/s)	**5828**	**7725**
Normalized	75.44%	100%
Standard Deviation	0.6%	1.5%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 128KB (IOPS)	**46600**	**61800**
Normalized	75.4%	100%
Standard Deviation	0.6%	1.4%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 64KB (MB/s)	**3706**	**5179**
Normalized	71.56%	100%
Standard Deviation	0.7%	4.8%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 64KB (IOPS)	**59333**	**82867**
Normalized	71.6%	100%
Standard Deviation	0.7%	4.8%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 128KB (MB/s)	**4291**	**6147**
Normalized	69.81%	100%
Standard Deviation	2.4%	4.4%

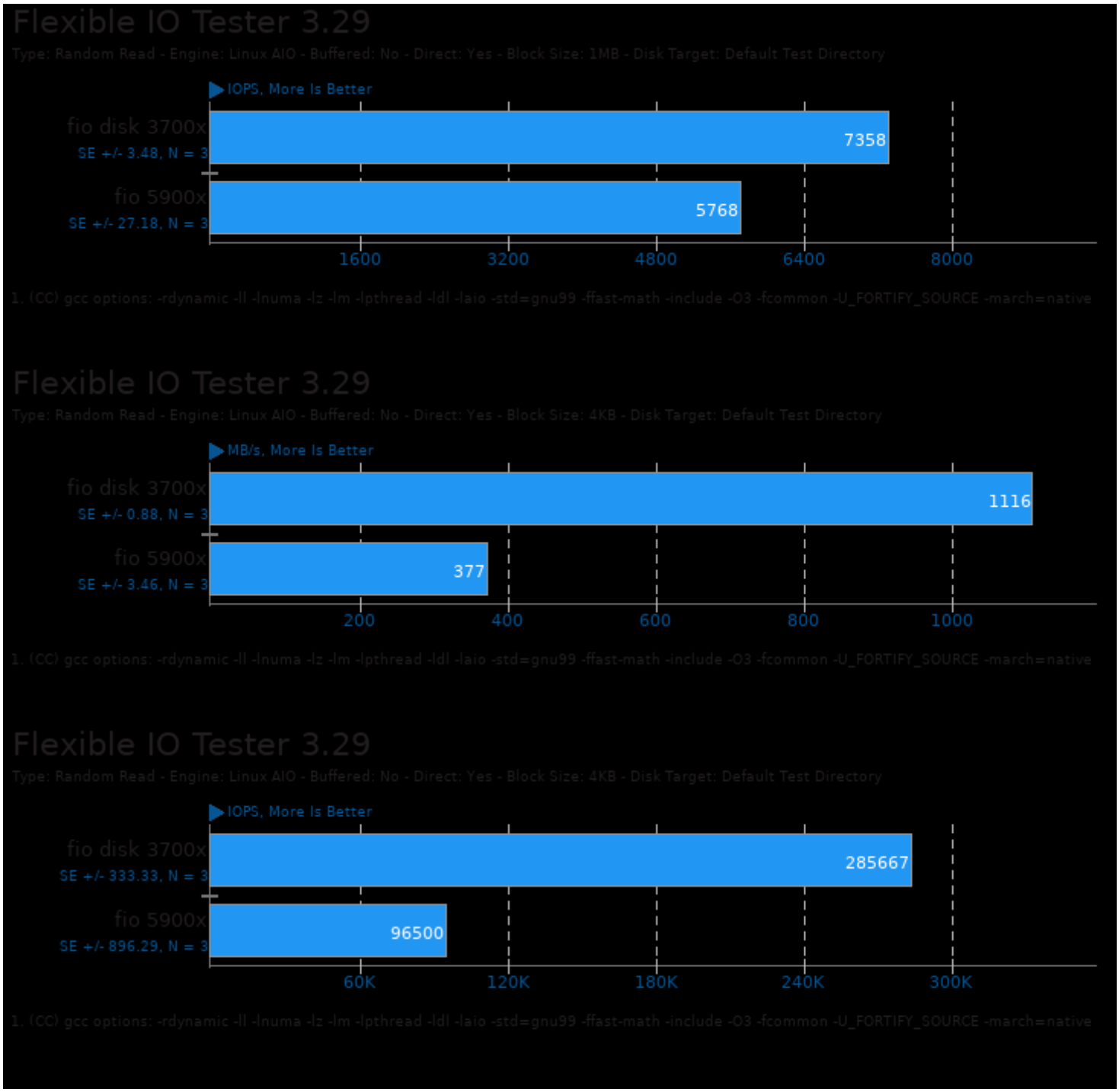
fio-disk-3700x

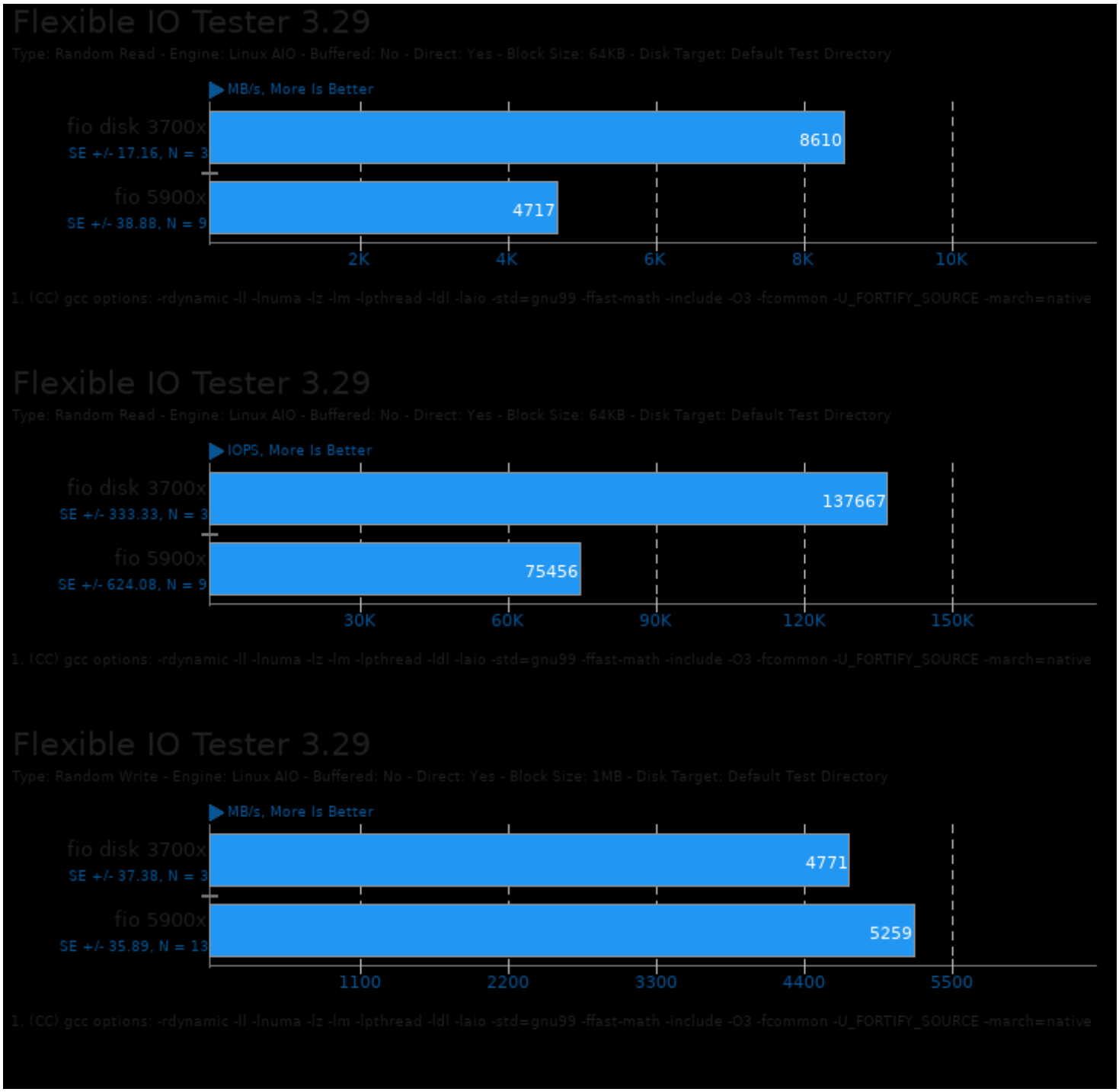
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 128KB (IOPS)	**34333**	**49180**
Normalized	69.81%	100%
Standard Deviation	2.4%	4.4%
Flexible IO Tester - Rand Read - Sync - No - No - 1MB (MB/s)		8341
Standard Deviation		1.8%
Flexible IO Tester - Rand Read - Sync - No - No - 2MB (MB/s)		8351
Standard Deviation		0.5%
Flexible IO Tester - Rand Read - Sync - No - No - 4MB (MB/s)		8379
Standard Deviation		0.8%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 128KB (MB/s)		7463
Standard Deviation		1.7%


Flexible IO Tester 3.29
Type: Random Read - Engine: Sync - Buffered: No - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory
IOPS, More Is Better
fio disk 3700x
SE +/- 33.33, N = 3
11567
fio 5900x
SE +/- 84.70, N = 3
8340
2K
4K
6K
8K
10K
1. (CC) gcc options: -rdynamic -ll -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 Read - Engine: Sync - Buffered: No - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
IOPS, More Is Better
fio disk 3700x
SE +/- 24.97, N = 3
5733
fio 5900x
SE +/- 11.06, N = 3
4175
1200
2400
3600
4800
6000
1. (CC) gcc options: -rdynamic -ll -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 Read - Engine: Sync - Buffered: No - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
fio disk 3700x
SE +/- 8.84, N = 3
1225
fio 5900x
SE +/- 1.33, N = 3
379
300
600
900
1200
1500
1. (CC) gcc options: -rdynamic -ll -lnuma -lz -lm -lpthread -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

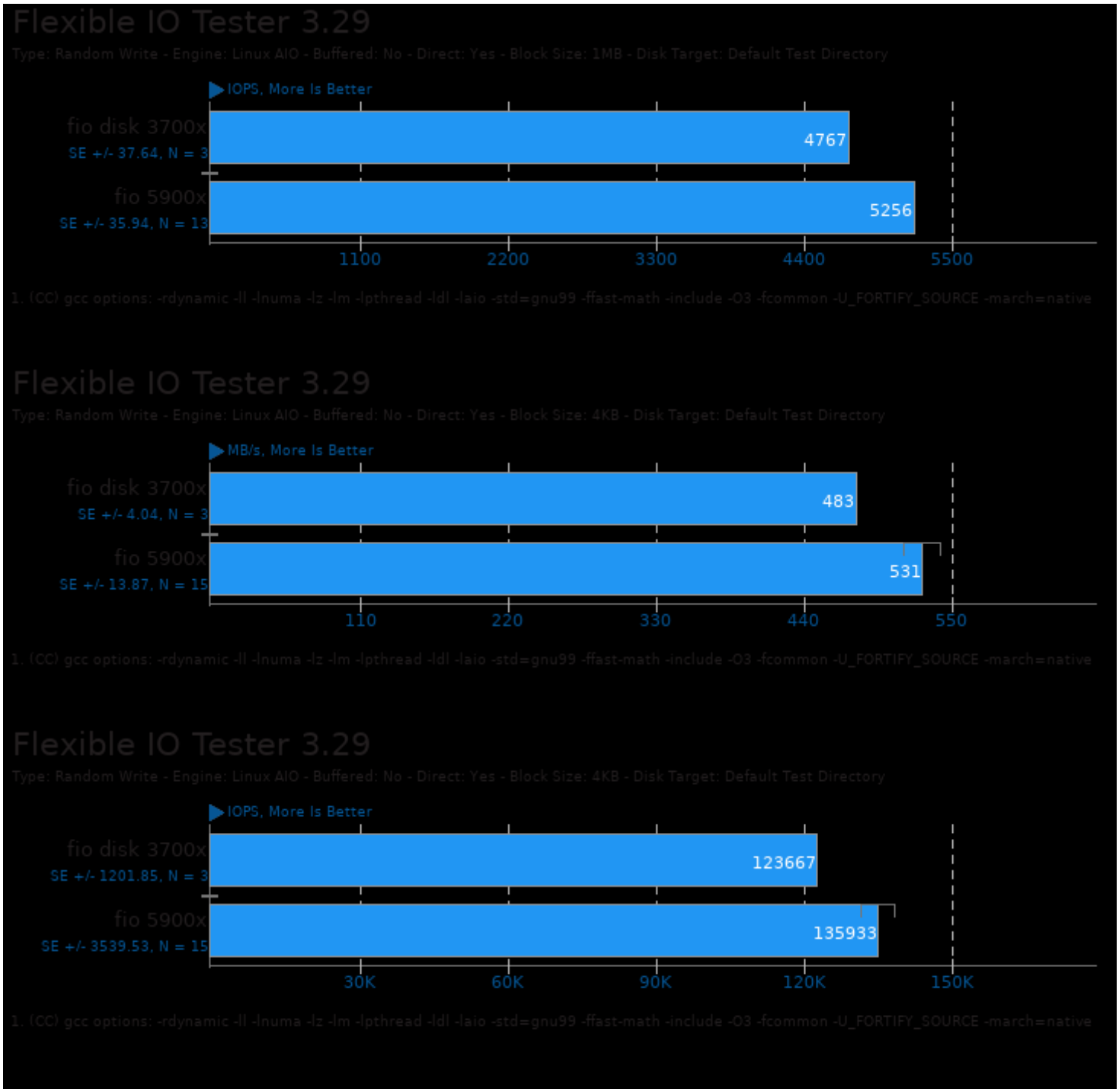
fio-disk-3700x

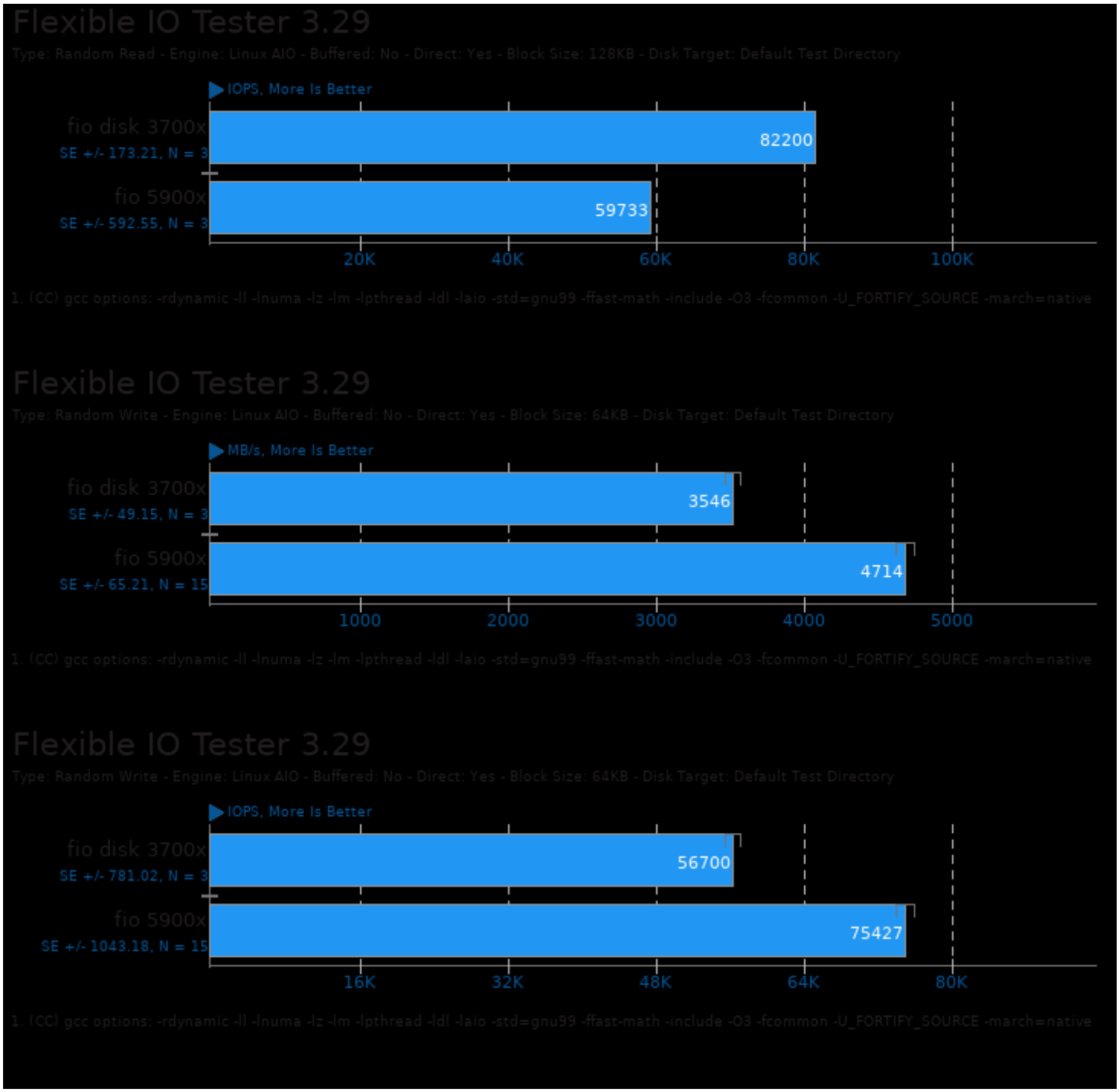


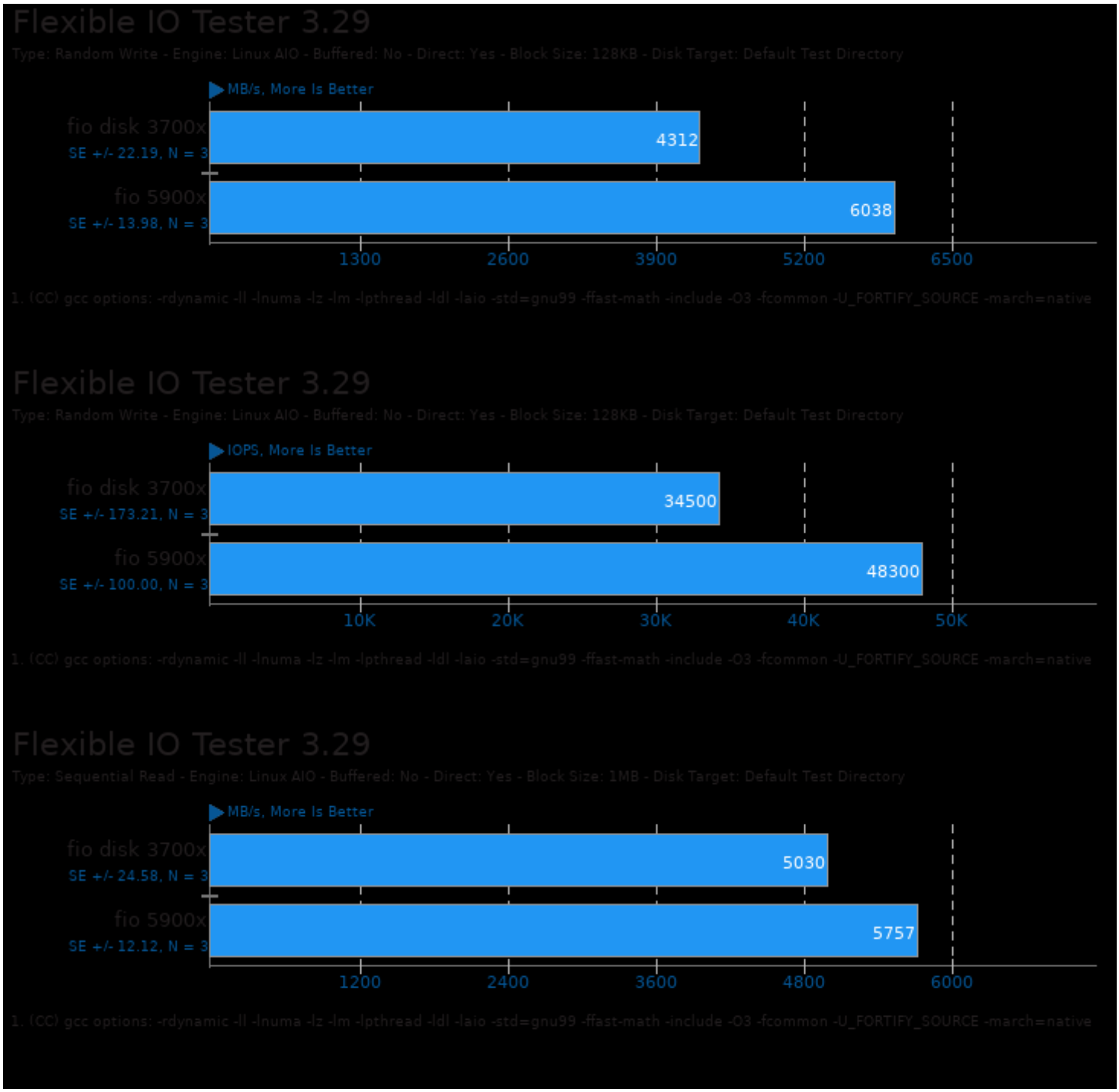

Flexible IO Tester 3.29
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
IOPS, More Is Better
fio disk 3700x
SE +/- 3.48, N = 3
7358
fio 5900x
SE +/- 27.18, N = 3
5768
1600
3200
4800
6400
8000
1. (CC) gcc options: -rdynamic -ll -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 Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
fio disk 3700x
SE +/- 0.88, N = 3
1116
fio 5900x
SE +/- 3.46, N = 3
377
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -ll -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 Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
fio disk 3700x
SE +/- 333.33, N = 3
285667
fio 5900x
SE +/- 896.29, N = 3
96500
60K
120K
180K
240K
300K
1. (CC) gcc options: -rdynamic -ll -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 Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
fio disk 3700x
SE +/- 17.16, N = 3
8610
fio 5900x
SE +/- 38.88, N = 9
4717
2K
4K
6K
8K
10K
1. (CC) gcc options: -rdynamic -ll -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 Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
fio disk 3700x
SE +/- 333.33, N = 3
137667
fio 5900x
SE +/- 624.08, N = 9
75456
30K
60K
90K
120K
150K
1. (CC) gcc options: -rdynamic -ll -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: 1MB - Disk Target: Default Test Directory
MB/s, More Is Better
fio disk 3700x
SE +/- 37.38, N = 3
4771
fio 5900x
SE +/- 35.89, N = 13
5259
1100
2200
3300
4400
5500
1. (CC) gcc options: -rdynamic -ll -lnuma -lz -lm -lpthread -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

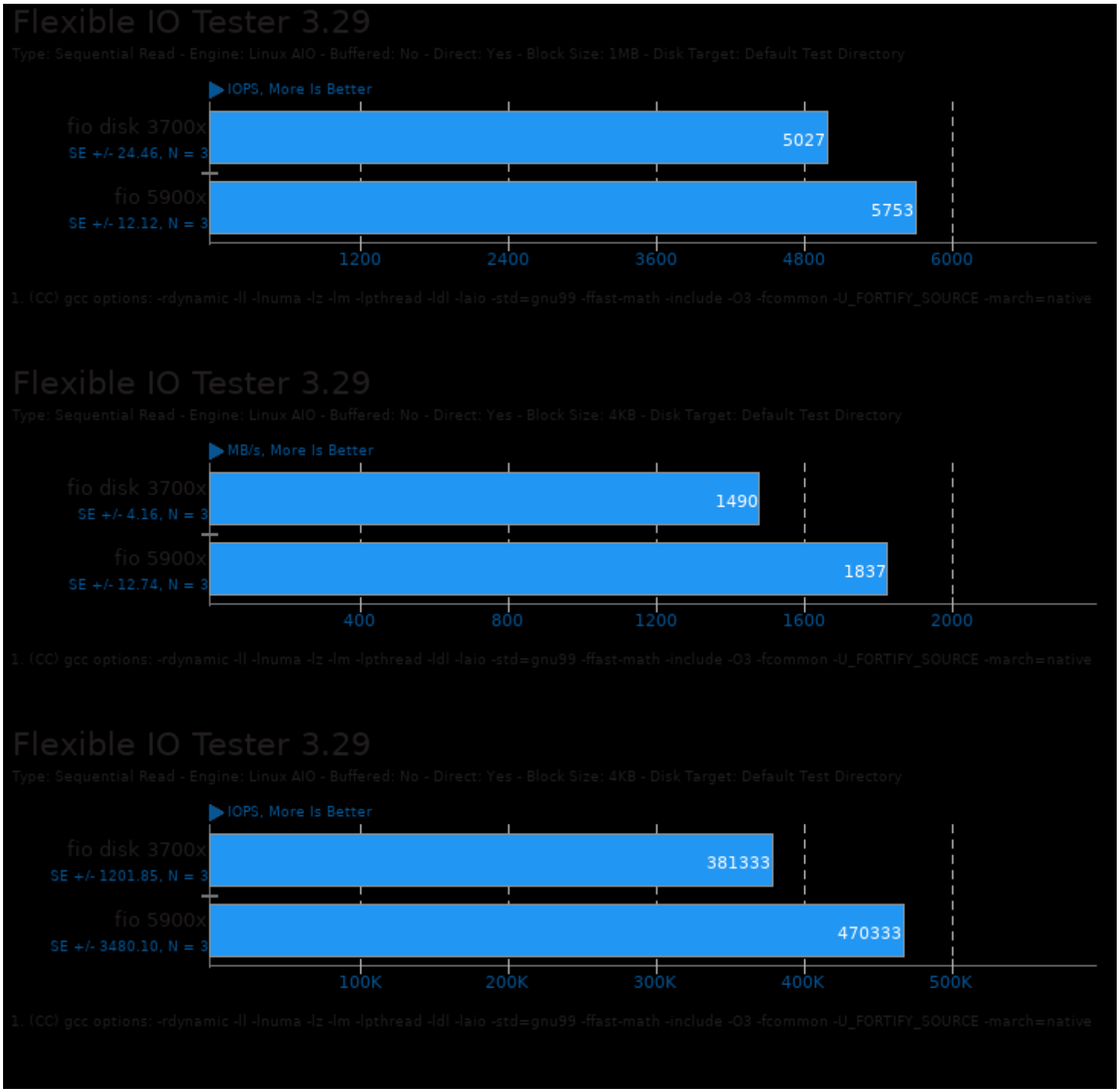
fio-disk-3700x



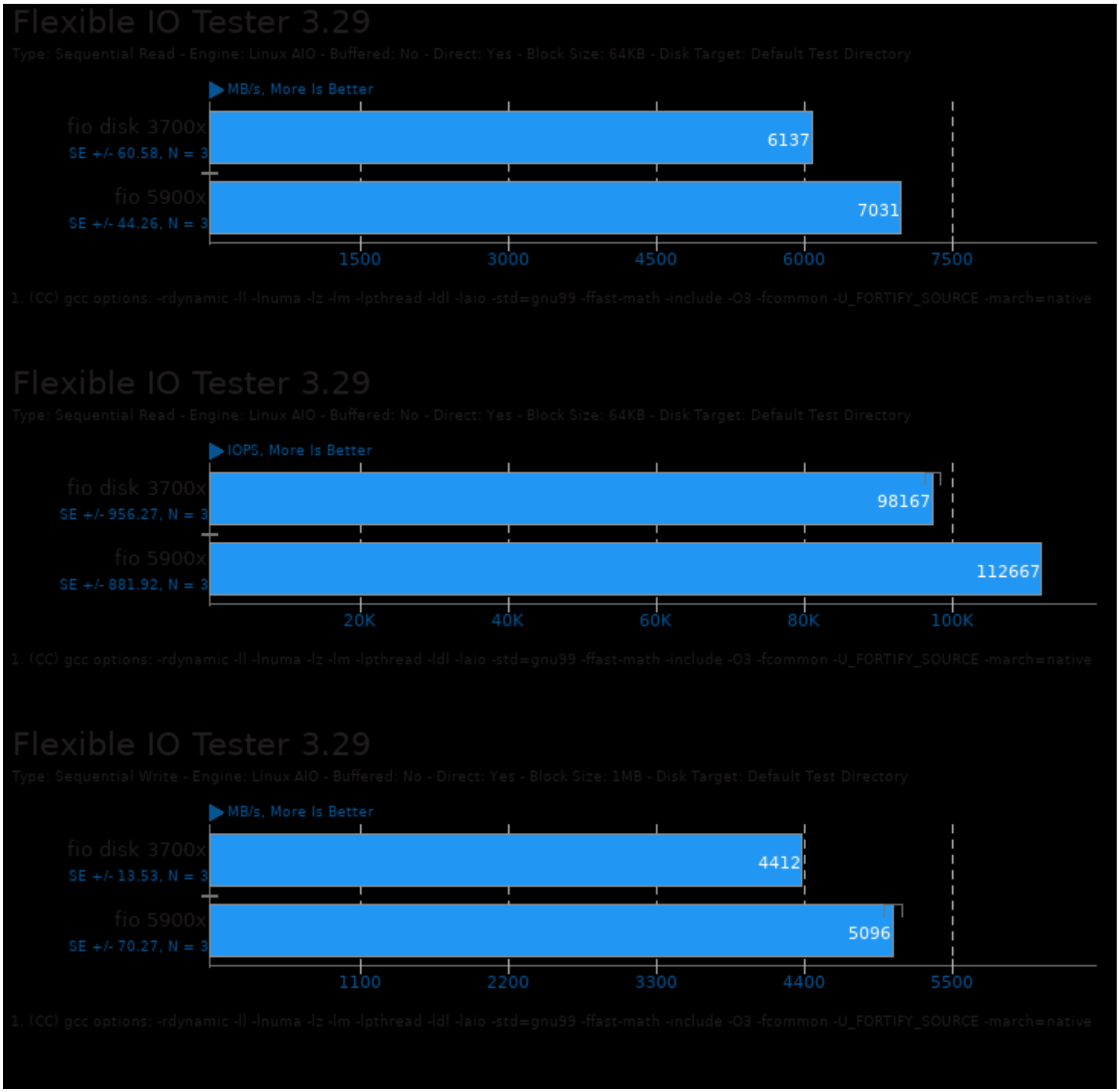

Flexible IO Tester 3.29
Type: Random Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 128KB - Disk Target: Default Test Directory
IOPS, More Is Better
fio disk 3700x
SE +/- 173.21, N = 3
82200
fio 5900x
SE +/- 592.55, N = 3
59733
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -ll -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: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
fio disk 3700x
SE +/- 49.15, N = 3
3546
fio 5900x
SE +/- 65.21, N = 15
4714
1000
2000
3000
4000
5000
1. (CC) gcc options: -rdynamic -ll -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: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
fio disk 3700x
SE +/- 781.02, N = 3
56700
fio 5900x
SE +/- 1043.18, N = 15
75427
16K
32K
48K
64K
80K
1. (CC) gcc options: -rdynamic -ll -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: 128KB - Disk Target: Default Test Directory
MB/s, More Is Better
fio disk 3700x
SE +/- 22.19, N = 3
4312
fio 5900x
SE +/- 13.98, N = 3
6038
1300
2600
3900
5200
6500
1. (CC) gcc options: -rdynamic -ll -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: 128KB - Disk Target: Default Test Directory
IOPS, More Is Better
fio disk 3700x
SE +/- 173.21, N = 3
34500
fio 5900x
SE +/- 100.00, N = 3
48300
10K
20K
30K
40K
50K
1. (CC) gcc options: -rdynamic -ll -lnuma -lz -lm -lpthread -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.29
Type: Sequential Read - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
MB/s, More Is Better
fio disk 3700x
SE +/- 24.58, N = 3
5030
fio 5900x
SE +/- 12.12, N = 3
5757
1200
2400
3600
4800
6000
1. (CC) gcc options: -rdynamic -ll -lnuma -lz -lm -lpthread -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

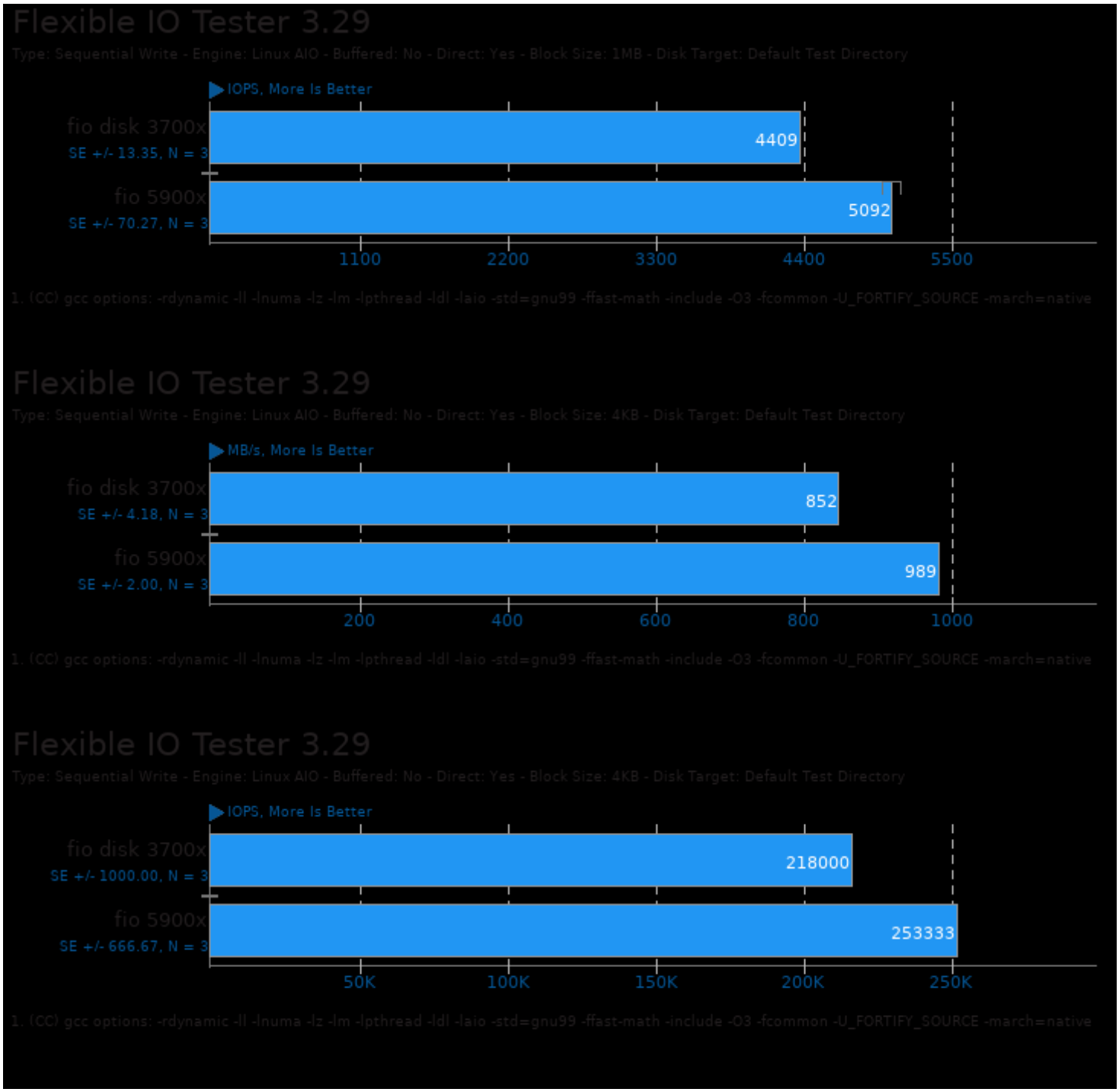
fio-disk-3700x



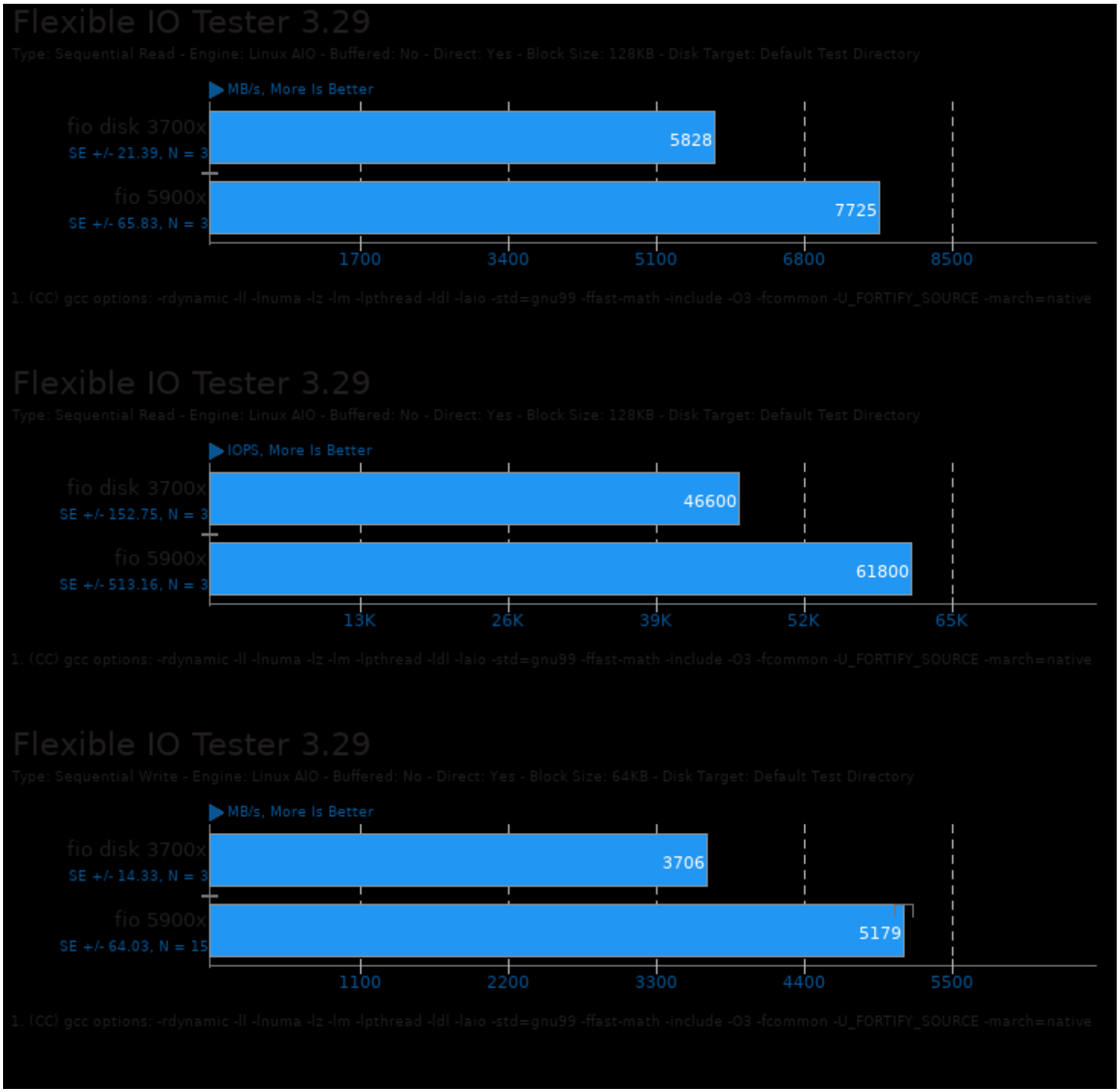
fio-disk-3700x

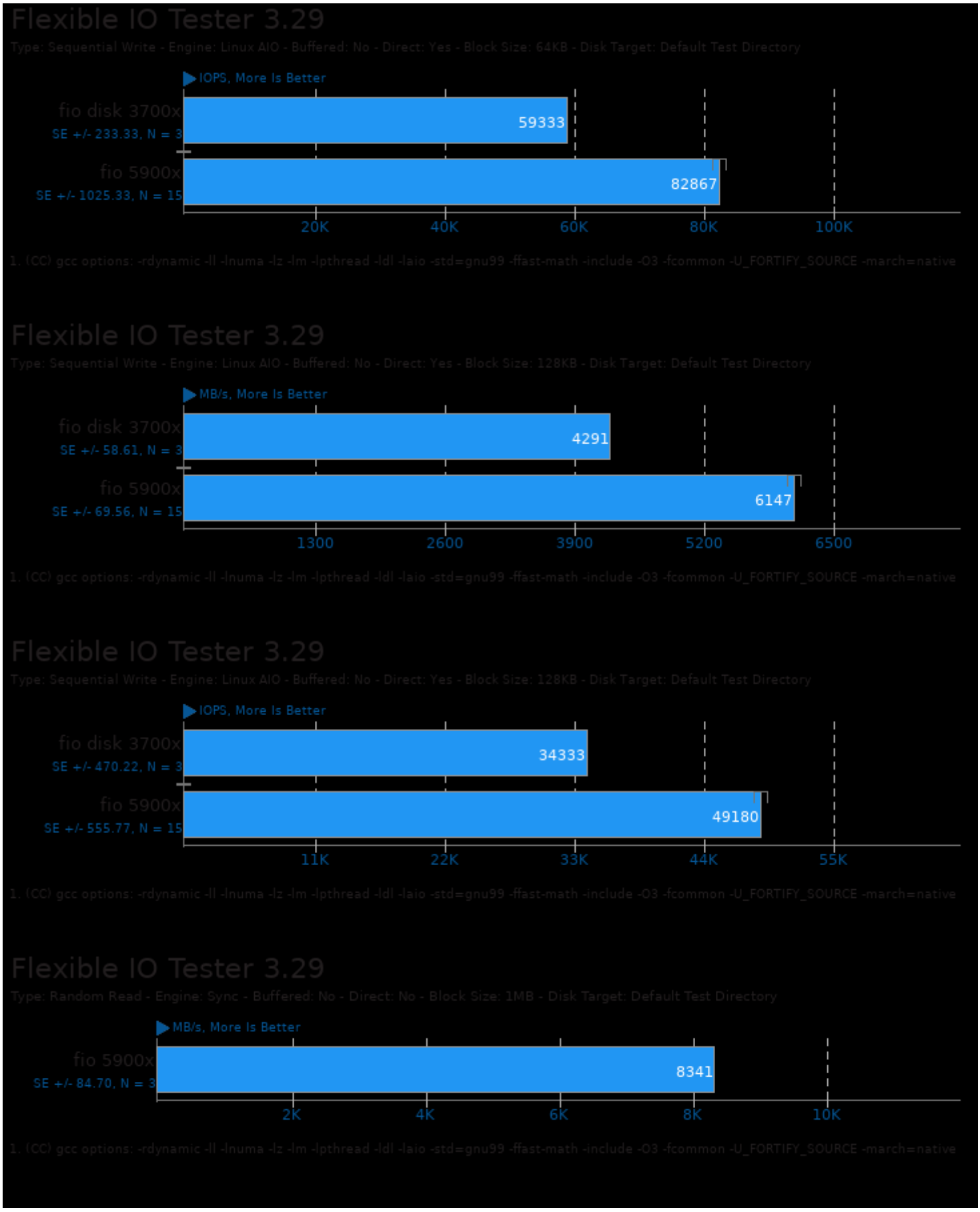


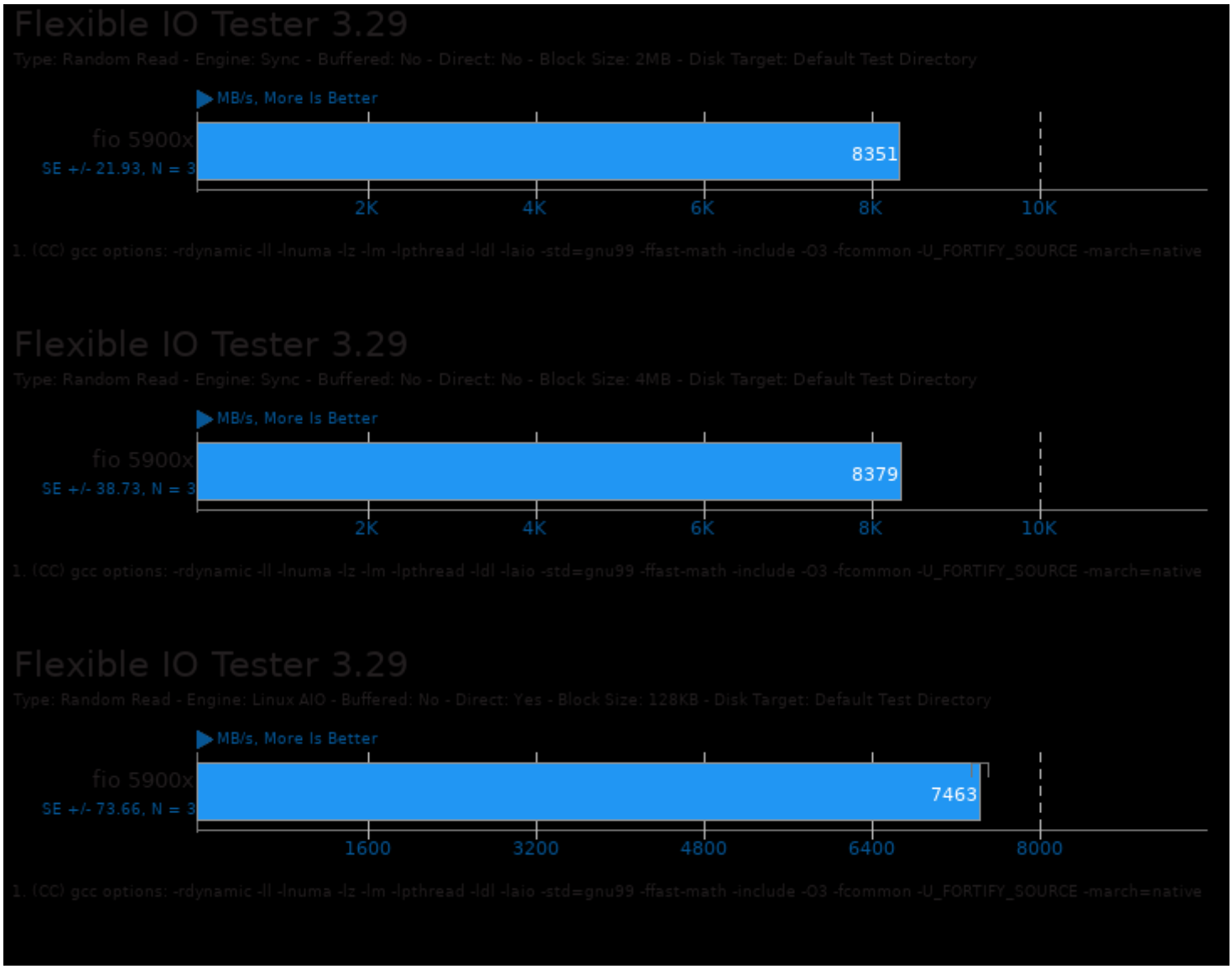
fio-disk-3700x



fio-disk-3700x




Flexible IO Tester 3.29
Type: Sequential Write - Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
fio disk 3700x
SE +/- 233.33, N = 3
59333
fio 5900x
SE +/- 1025.33, N = 15
82867
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -ll -lnuma -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: 128KB - Disk Target: Default Test Directory
MB/s, More Is Better
fio disk 3700x
SE +/- 58.61, N = 3
4291
fio 5900x
SE +/- 69.56, N = 15
6147
1300
2600
3900
5200
6500
1. (CC) gcc options: -rdynamic -ll -lnuma -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: 128KB - Disk Target: Default Test Directory
IOPS, More Is Better
fio disk 3700x
SE +/- 470.22, N = 3
34333
fio 5900x
SE +/- 555.77, N = 15
49180
11K
22K
33K
44K
55K
1. (CC) gcc options: -rdynamic -ll -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 Read - Engine: Sync - Buffered: No - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory
MB/s, More Is Better
fio 5900x
SE +/- 84.70, N = 3
8341
2K
4K
6K
8K
10K
1. (CC) gcc options: -rdynamic -ll -lnuma -lz -lm -lpthread -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 05:00.