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fstests

AMD EPYC 7401P 24-Core testing with a GIGABYTE MZ21-G20-00 v01000100 (F03d BIOS) and Gigabyte NVIDIA GeForce RTX 2080 Ti 11GB on CentOS Linux 8 via the Phoronix Test Suite.

Test Systems:

Fiona FS

Processor: AMD EPYC 7401P 24-Core @ 2.00GHz (24 Cores / 48 Threads), Motherboard: GIGABYTE MZ21-G20-00 v01000100 (F03d BIOS), Chipset: AMD 17h, Memory: 8 x 16384 MB DDR4-2667MT/s Samsung M393A2G40EB2-CTD, Disk: 2 x 3841GB Micron_9200_MTFDHAL3T8TCT + 8GB Flash Disk + 2 x 480GB Micron_5200_MTFD, Graphics: Gigabyte NVIDIA GeForce RTX 2080 Ti 11GB (300/405MHz), Audio: NVIDIA TU102 HD Audio, Monitor: Smart Cable, Network: 2 x Mellanox MT27710 + 2 x Mellanox MT27800

OS: CentOS Linux 8, Kernel: 4.18.0-80.11.2.el8_0.x86_64 (x86_64), Display Server: X Server 1.20.3, Display Driver: NVIDIA 440.33.01, Compiler: GCC 8.3.1 20190507 + CUDA 10.2, File-System: xfs, Screen Resolution: 1920x1200

Compiler Notes: --build=x86_64-redhat-linux --disable-libmpx --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,lto --enable-multilib

fstests

--enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver
Disk Notes: MQ-DEADLINE / attr2,inode64,noquota,relatime,rw,seclabel
Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x8001227
Security Notes: SELinux + l1tf: Not affected + mds: Not affected + meltdown: 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

	Fiona FS
SQLite - 1 (sec)	4.220
Standard Deviation	1.7%
SQLite - 8 (sec)	11.422
Standard Deviation	0.9%
SQLite - 32 (sec)	32.275
Standard Deviation	0.3%
SQLite - 64 (sec)	67.680
Standard Deviation	0.3%
SQLite - 128 (sec)	130.423
Standard Deviation	0.1%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 1MB (MB/s)	366
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 1MB (IOPS)	362
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 2MB (MB/s)	371
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 2MB (IOPS)	182
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 4KB (MB/s)	31.6
Standard Deviation	0.4%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 4KB (IOPS)	8084
Standard Deviation	0.3%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 4MB (MB/s)	389
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 4MB (IOPS)	94
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 8KB (MB/s)	44.1
Standard Deviation	1.5%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 8KB (IOPS)	5646
Standard Deviation	1.6%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 8MB (MB/s)	417
Standard Deviation	3%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 8MB (IOPS)	49
Standard Deviation	2.4%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 16KB (MB/s)	63.6
Standard Deviation	0.1%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 16KB (IOPS)	4070
Standard Deviation	0%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 32KB (MB/s)	94.2
Standard Deviation	0%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 32KB (IOPS)	3009
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 64KB (MB/s)	145
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 64KB (IOPS)	2309
Standard Deviation	0.1%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 1MB (MB/s)	388
Standard Deviation	0.3%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 1MB (IOPS)	385
Standard Deviation	0.3%

fstests

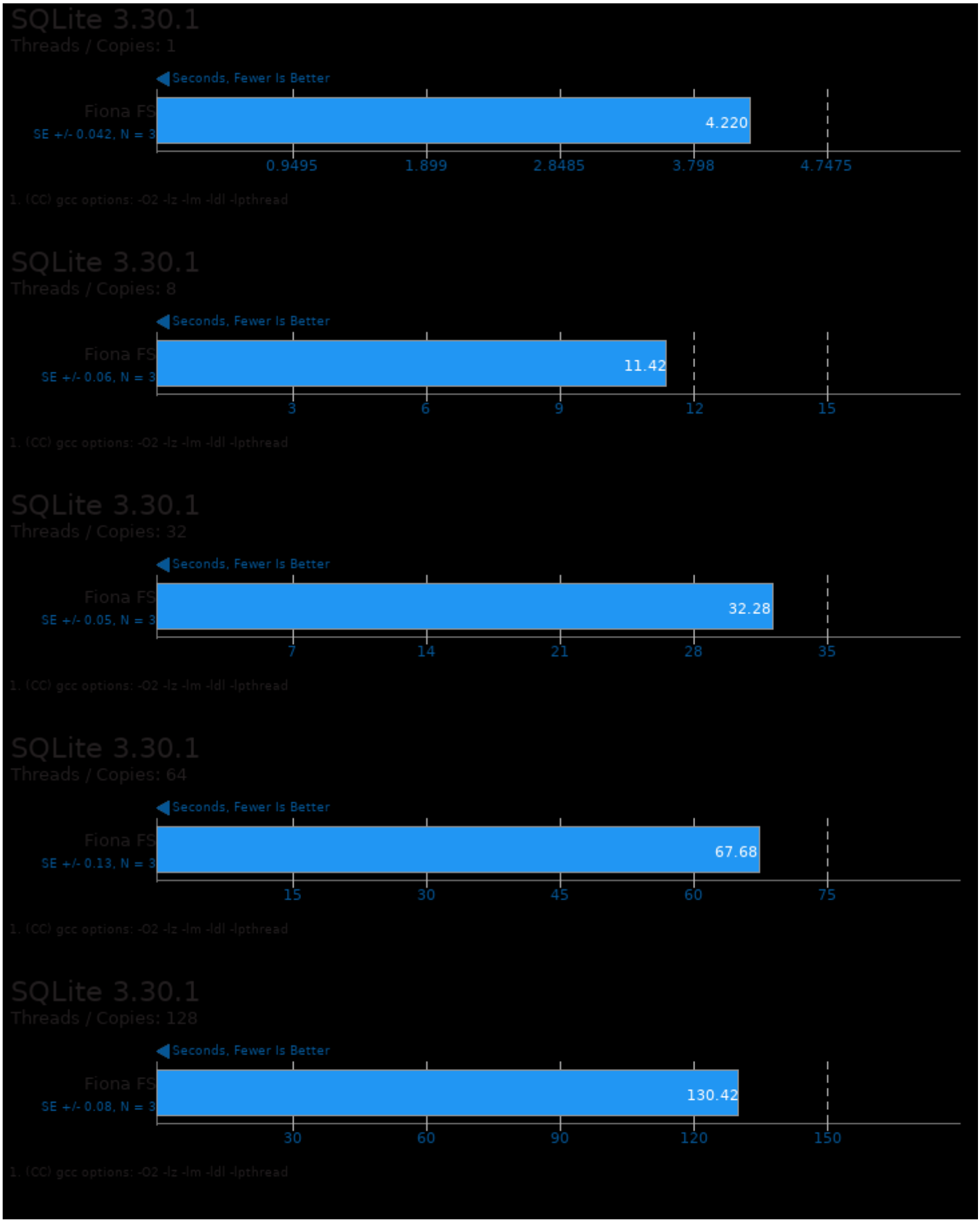
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 2MB (MB/s)	395
Standard Deviation	0.7%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 2MB (IOPS)	194
Standard Deviation	0.6%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 4KB (MB/s)	304
Standard Deviation	0.7%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 4KB (IOPS)	77700
Standard Deviation	0.7%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 4MB (MB/s)	408
Standard Deviation	0.2%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 4MB (IOPS)	98
Standard Deviation	0.6%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 8KB (MB/s)	344
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 8KB (IOPS)	44067
Standard Deviation	0.5%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 8MB (MB/s)	447
Standard Deviation	3.9%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 8MB (IOPS)	52
Standard Deviation	4%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 128KB	192
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 128KB	1527
Standard Deviation	0.2%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 256KB	250
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 256KB	996
Standard Deviation	0.2%
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 512KB	307
Flexible IO Tester - Rand Read - POSIX AIO - Yes - No - 512KB	610
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 16KB	402
Standard Deviation	0.9%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 16KB	25433
Standard Deviation	1.5%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 32KB	375
Standard Deviation	0.2%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 32KB	11333
Standard Deviation	5.1%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 64KB	381
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 64KB	6097
Standard Deviation	0.3%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 128KB	385
Standard Deviation	0.7%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 128KB	3079
Standard Deviation	0.7%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 256KB	387
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 256KB	1545
Standard Deviation	0.1%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 512KB	389
Standard Deviation	0.5%
Flexible IO Tester - Rand Write - POSIX AIO - Yes - No - 512KB	774
Standard Deviation	0.5%
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 1MB (MB/s)	510
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 1MB (IOPS)	507
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 2MB (MB/s)	512

Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 2MB (IOPS)	252
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 4KB (MB/s)	495
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 4KB (IOPS)	127000
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 4MB (MB/s)	529
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 4MB (IOPS)	129
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 8KB (MB/s)	495
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 8KB (IOPS)	63400
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 8MB (MB/s)	541
Standard Deviation	0.2%
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 8MB (IOPS)	64
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 16KB (MB/s)	496
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 16KB (IOPS)	31700
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 32KB (MB/s)	496
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 32KB (IOPS)	15900
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 64KB (MB/s)	497
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 64KB (IOPS)	7952
Standard Deviation	0%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 1MB (MB/s)	392
Standard Deviation	0.7%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 1MB (IOPS)	389
Standard Deviation	0.7%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 2MB (MB/s)	398
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 2MB (IOPS)	195
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 4KB (MB/s)	340
Standard Deviation	2.4%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 4KB (IOPS)	87067
Standard Deviation	2.4%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 4MB (MB/s)	408
Standard Deviation	0.4%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 4MB (IOPS)	99
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 8KB (MB/s)	353
Standard Deviation	0.2%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 8KB (IOPS)	45133
Standard Deviation	0.3%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 8MB (MB/s)	430
Standard Deviation	0.5%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 8MB (IOPS)	50
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 128KB (MB/s)	493
Standard Deviation	0.1%
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 128KB (IOPS)	3938
Standard Deviation	0.1%
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 256KB (MB/s)	494
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 256KB (IOPS)	1972
Standard Deviation	0%
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 512KB (MB/s)	497
Flexible IO Tester - Seq Read - POSIX AIO - Yes - No - 512KB (IOPS)	990
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 16KB (MB/s)	373
Standard Deviation	0.5%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 16KB (IOPS)	23867
Standard Deviation	0.5%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 32KB (MB/s)	381

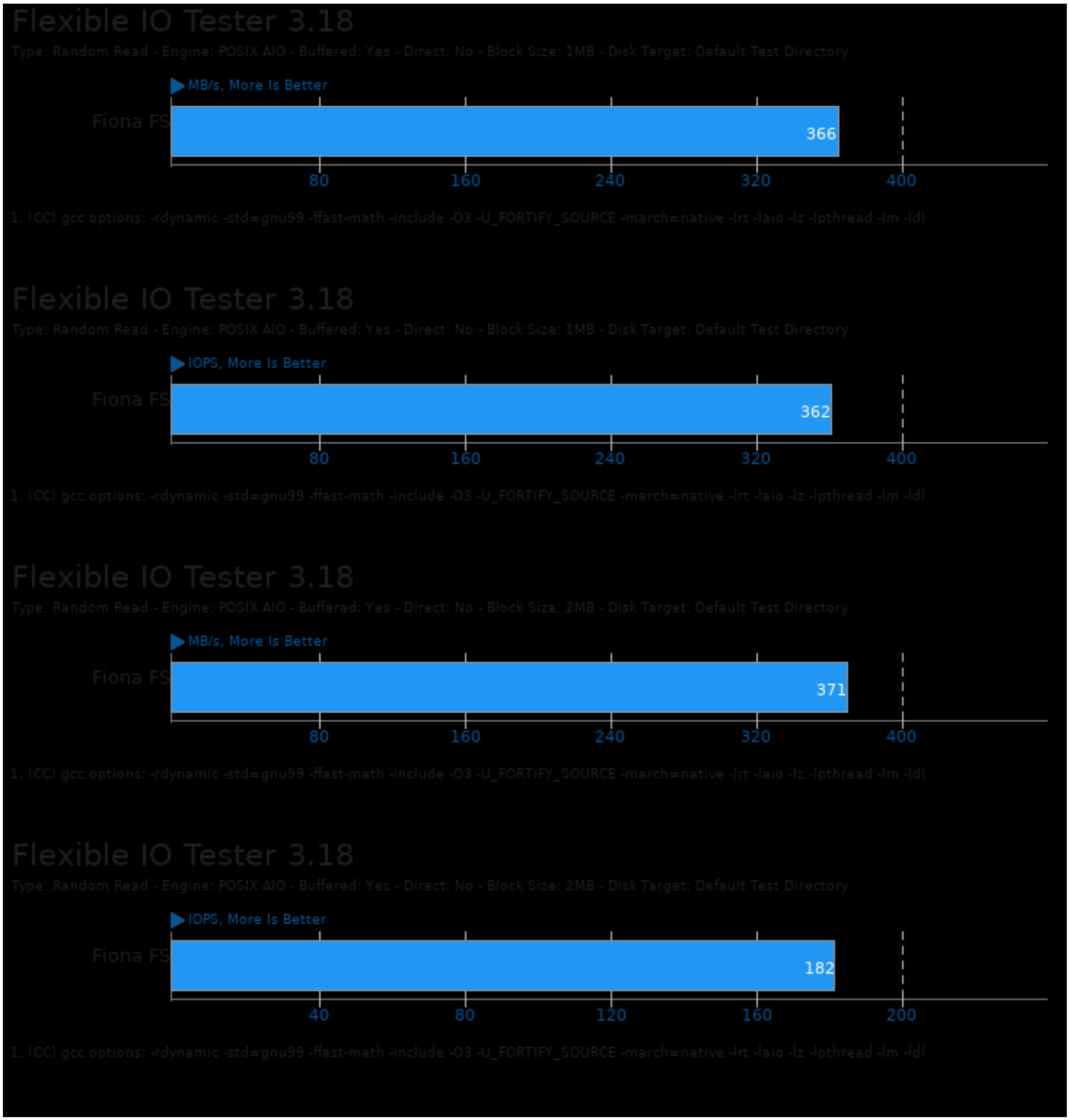
fstests

Standard Deviation	0.4%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 32KB (IOPS)	12167
Standard Deviation	0.5%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 64KB (MB/s)	386
Standard Deviation	0.3%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 64KB (IOPS)	6166
Standard Deviation	0.3%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 128KB (MB/s)	386
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 128KB (IOPS)	3085
Standard Deviation	0.5%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 256KB (MB/s)	388
Standard Deviation	0.5%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 256KB (IOPS)	1548
Standard Deviation	0.6%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 512KB (MB/s)	390
Standard Deviation	1%
Flexible IO Tester - Seq Write - POSIX AIO - Yes - No - 512KB (IOPS)	777
Standard Deviation	1%
PostMark - D.T.P (TPS)	5769
Standard Deviation	1.3%

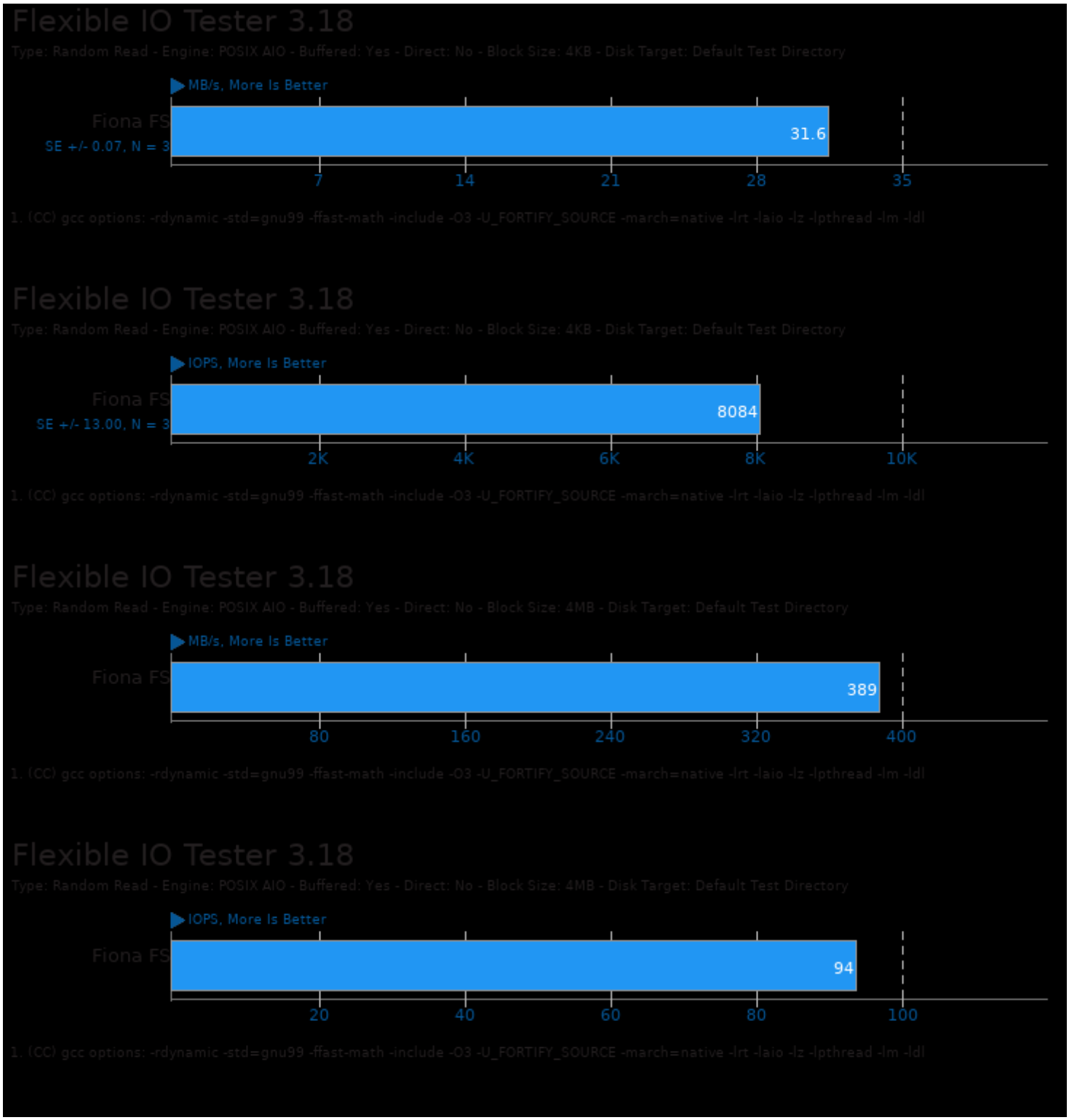
fstests


SQLite 3.30.1
Threads / Copies: 1
Seconds, Fewer Is Better
Fiona FS
SE +/- 0.042, N = 3
4.220
0.9495
1.899
2.8485
3.798
4.7475
1. (CC) gcc options: -O2 -lz -lm -ldl -lpthread
SQLite 3.30.1
Threads / Copies: 8
Seconds, Fewer Is Better
Fiona FS
SE +/- 0.06, N = 3
11.42
3
6
9
12
15
1. (CC) gcc options: -O2 -lz -lm -ldl -lpthread
SQLite 3.30.1
Threads / Copies: 32
Seconds, Fewer Is Better
Fiona FS
SE +/- 0.05, N = 3
32.28
7
14
21
28
35
1. (CC) gcc options: -O2 -lz -lm -ldl -lpthread
SQLite 3.30.1
Threads / Copies: 64
Seconds, Fewer Is Better
Fiona FS
SE +/- 0.13, N = 3
67.68
15
30
45
60
75
1. (CC) gcc options: -O2 -lz -lm -ldl -lpthread
SQLite 3.30.1
Threads / Copies: 128
Seconds, Fewer Is Better
Fiona FS
SE +/- 0.08, N = 3
130.42
30
60
90
120
150
1. (CC) gcc options: -O2 -lz -lm -ldl -lpthread

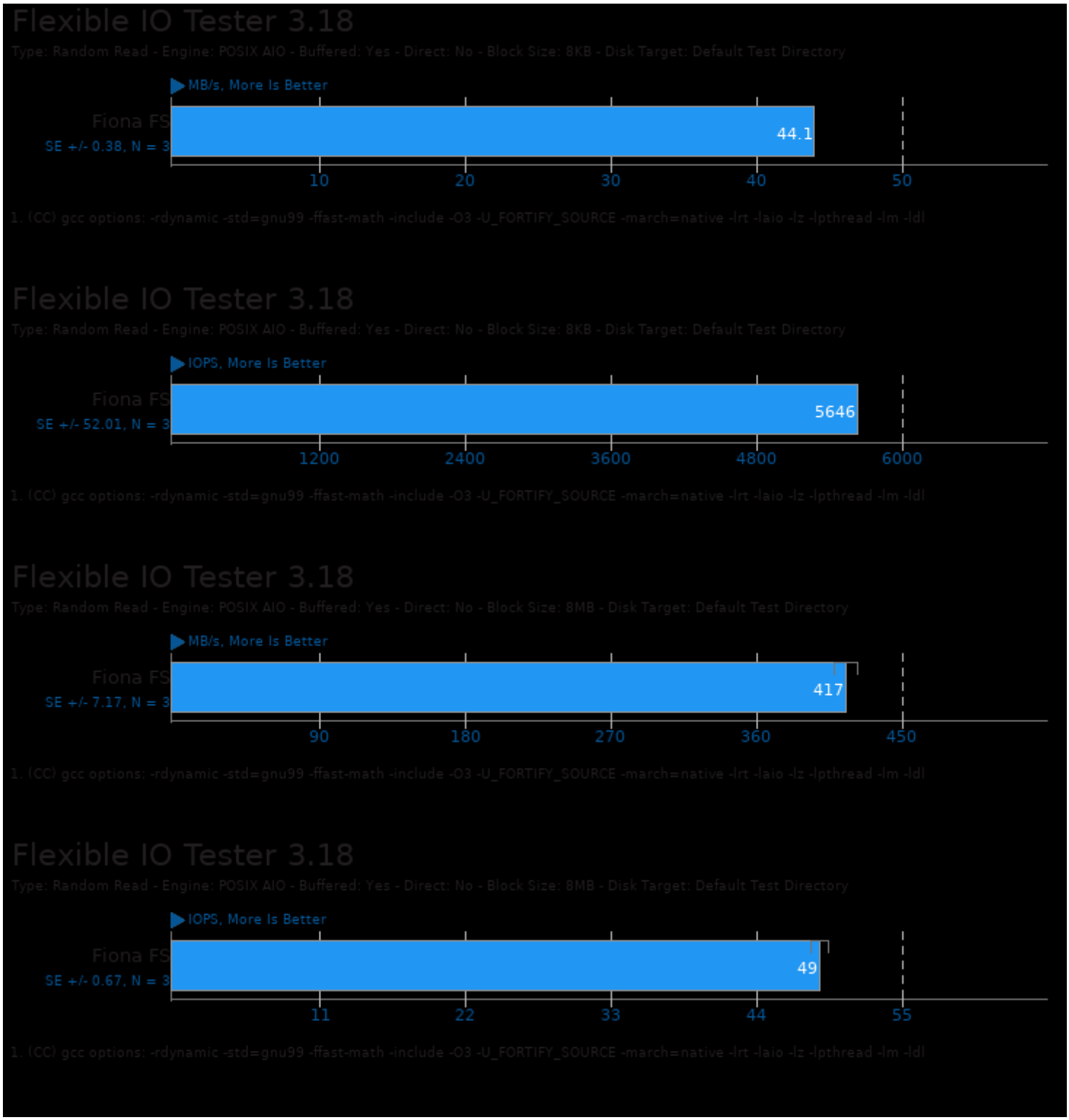
fstests


Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
366
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
362
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
371
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
182
40
80
120
160
200
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

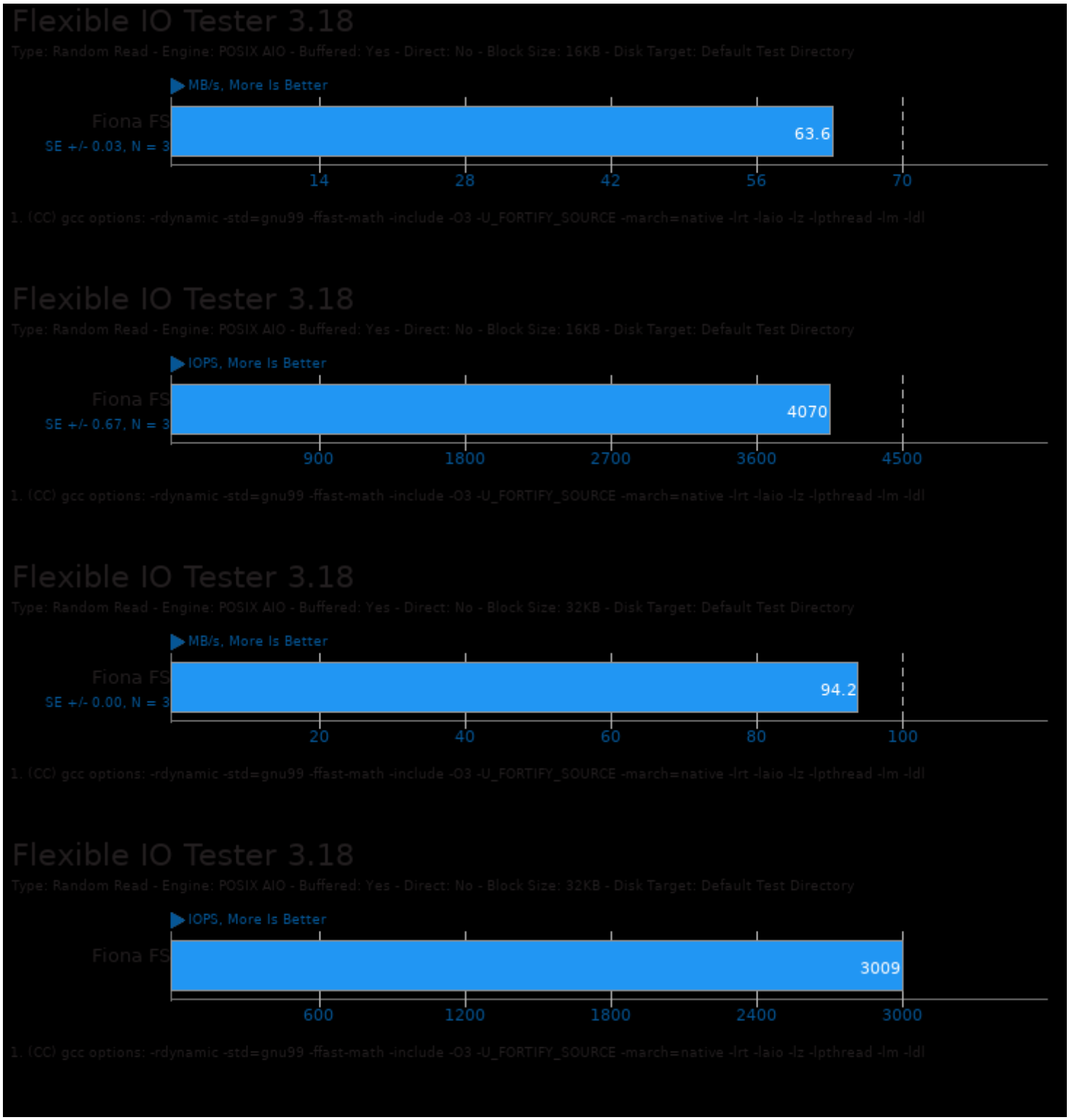
fstests


Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 0.07, N = 3
31.6
7
14
21
28
35
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 13.00, N = 3
8084
2K
4K
6K
8K
10K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4MB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
389
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4MB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
94
20
40
60
80
100
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

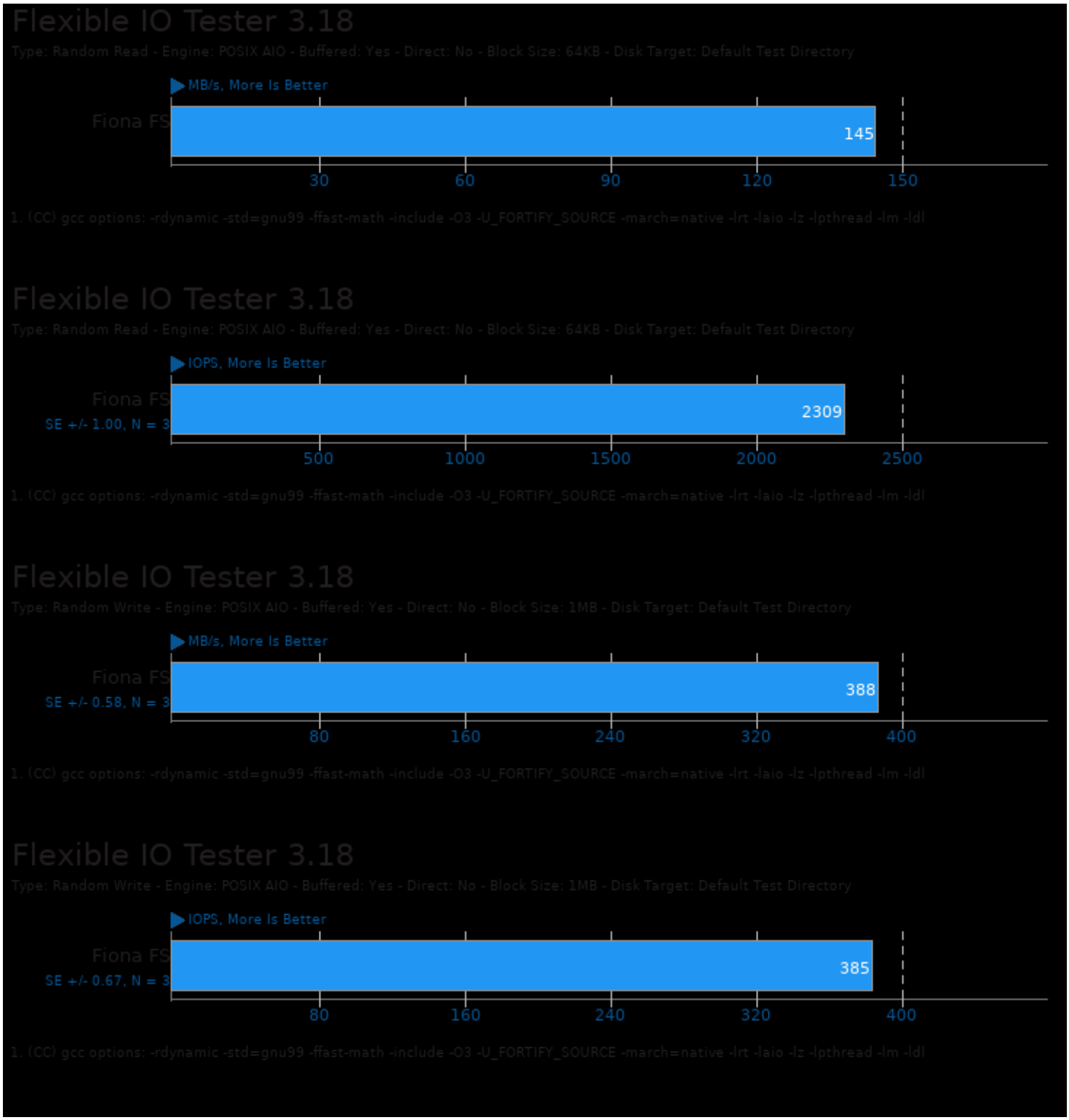
fstests


Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 0.38, N = 3
44.1
10
20
30
40
50
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 52.01, N = 3
5646
1200
2400
3600
4800
6000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 7.17, N = 3
417
90
180
270
360
450
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 0.67, N = 3
49
11
22
33
44
55
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

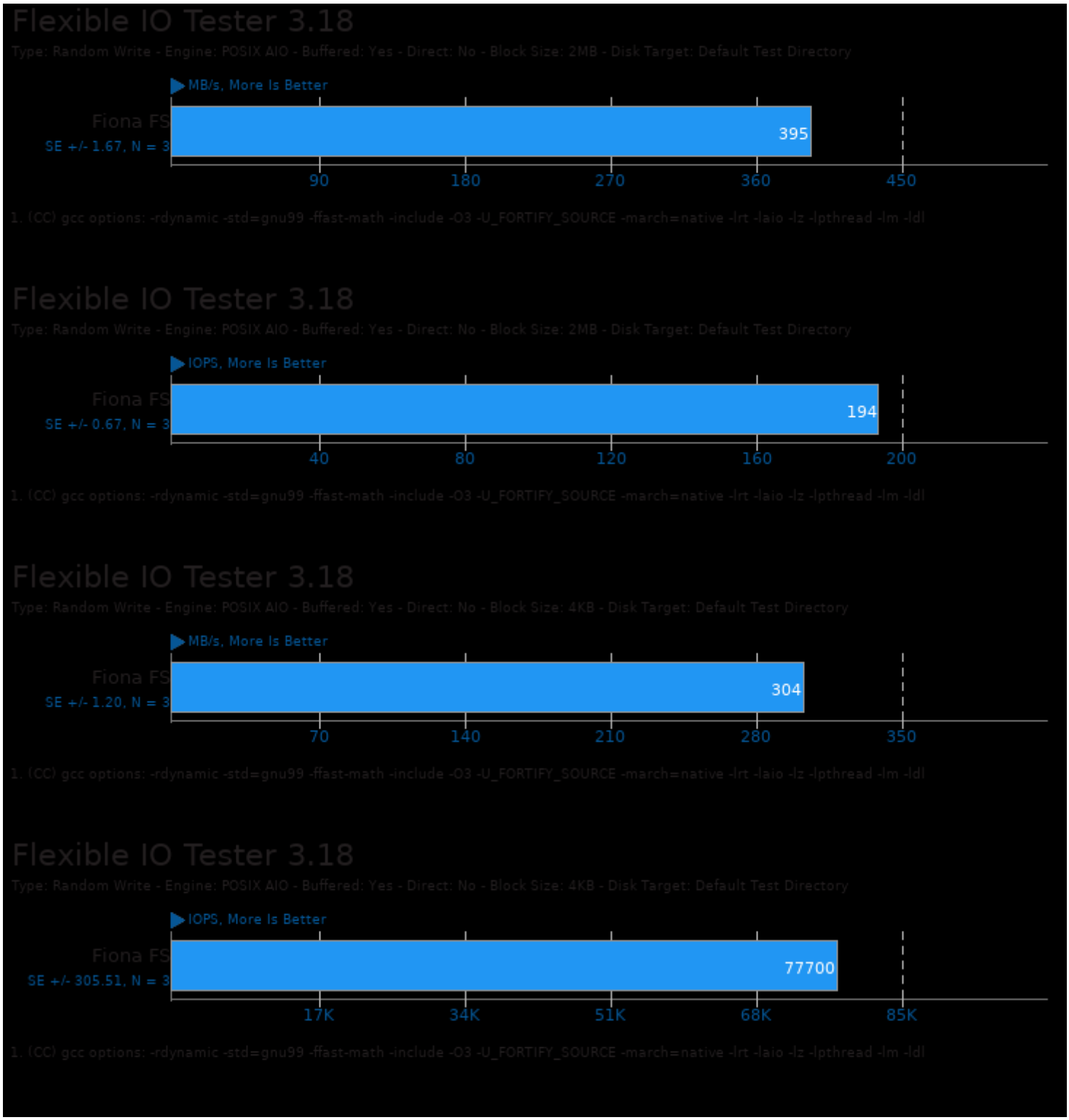
fstests


Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 0.03, N = 3
63.6
14
28
42
56
70
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 0.67, N = 3
4070
900
1800
2700
3600
4500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 32KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 0.00, N = 3
94.2
20
40
60
80
100
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 32KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
3009
600
1200
1800
2400
3000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

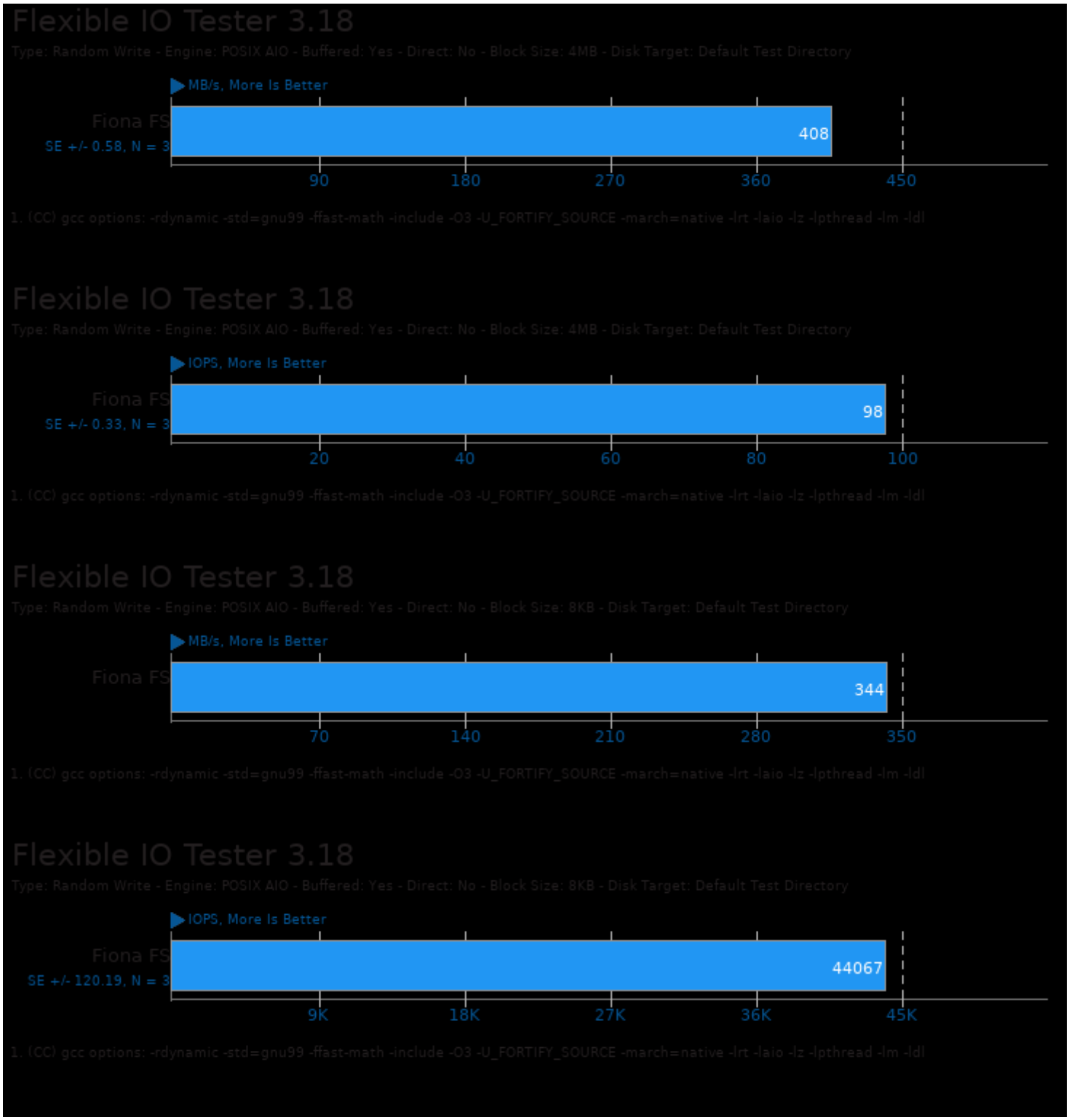
fstests


Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
145
30
60
90
120
150
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 1.00, N = 3
2309
500
1000
1500
2000
2500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 0.58, N = 3
388
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 0.67, N = 3
385
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

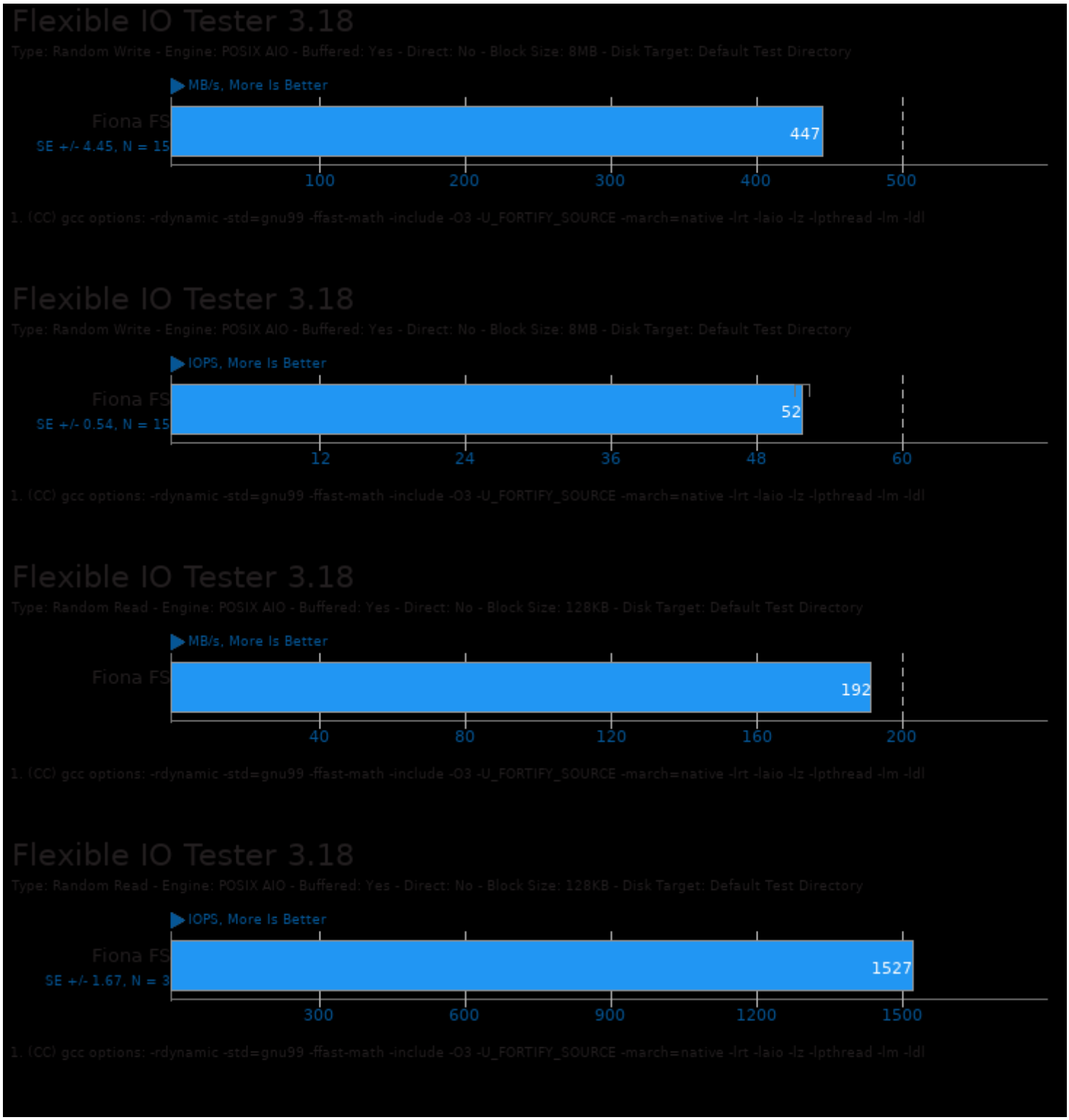
fstests


Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 1.67, N = 3
395
90
180
270
360
450
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 0.67, N = 3
194
40
80
120
160
200
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 1.20, N = 3
304
70
140
210
280
350
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 305.51, N = 3
77700
17K
34K
51K
68K
85K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

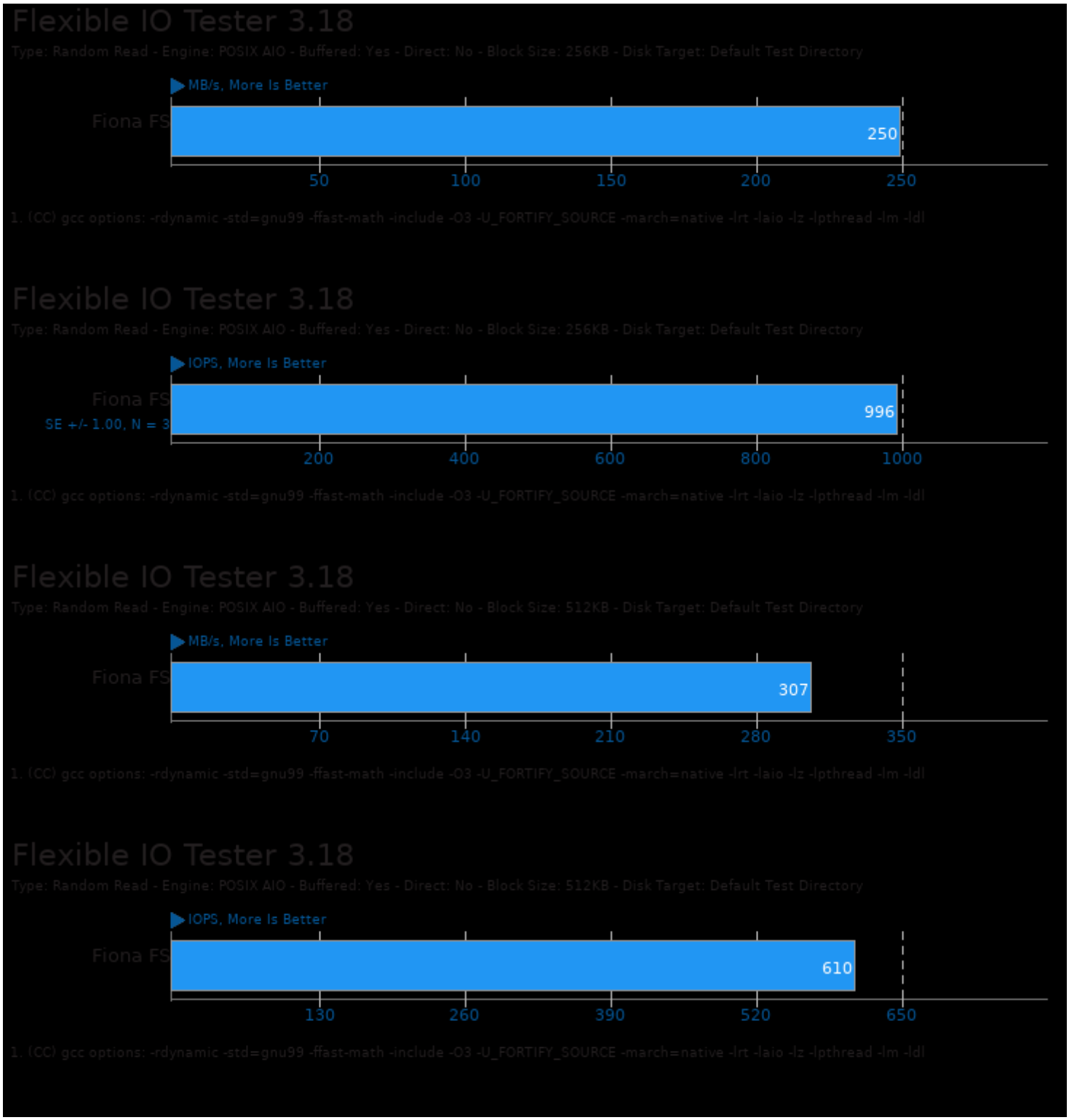
fstests


Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4MB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 0.58, N = 3
408
90
180
270
360
450
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4MB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 0.33, N = 3
98
20
40
60
80
100
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
344
70
140
210
280
350
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 120.19, N = 3
44067
9K
18K
27K
36K
45K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

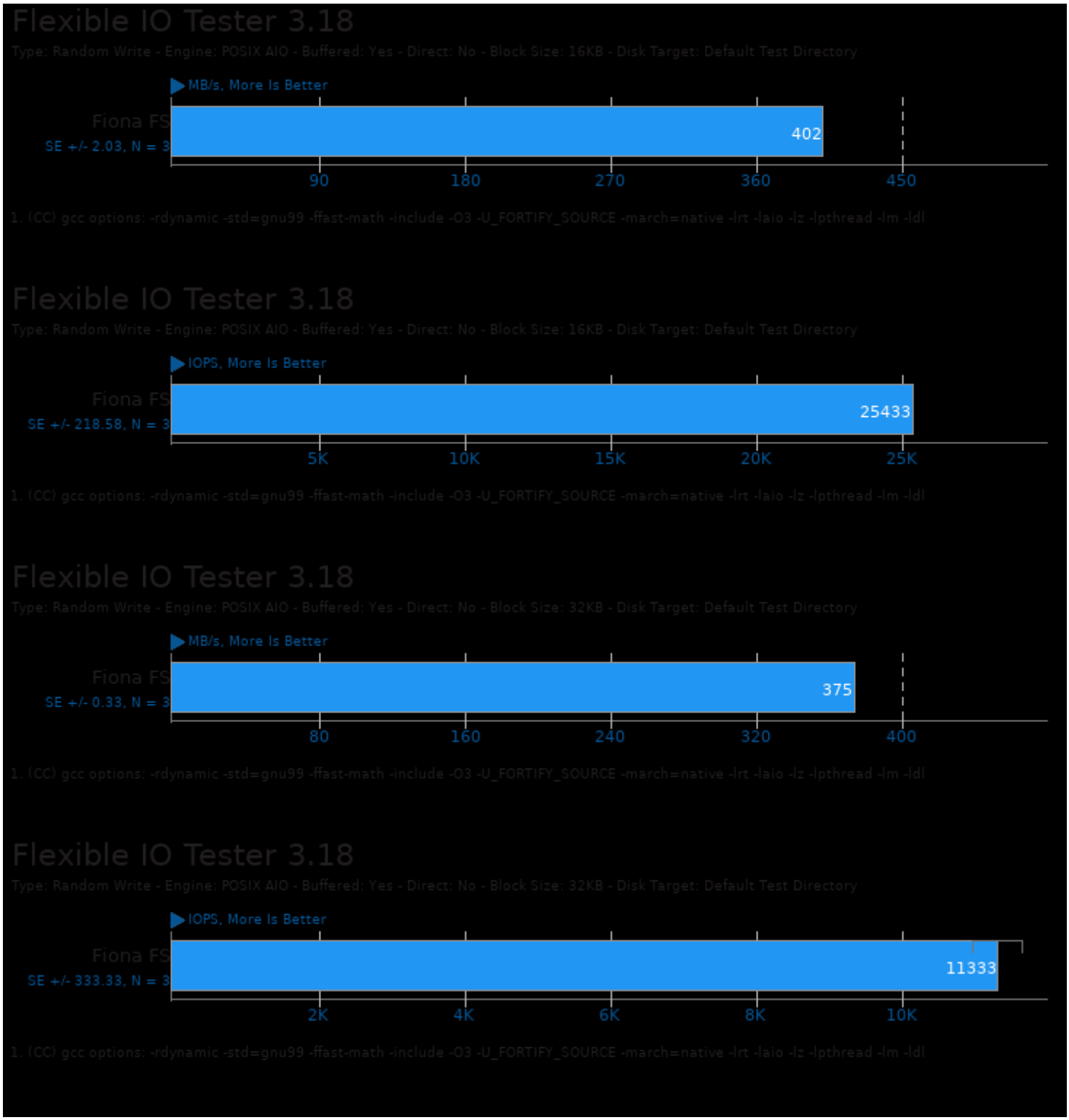
fstests


Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 4.45, N = 15
447
100
200
300
400
500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 0.54, N = 15
52
12
24
36
48
60
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 128KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
192
40
80
120
160
200
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 128KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 1.67, N = 3
1527
300
600
900
1200
1500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

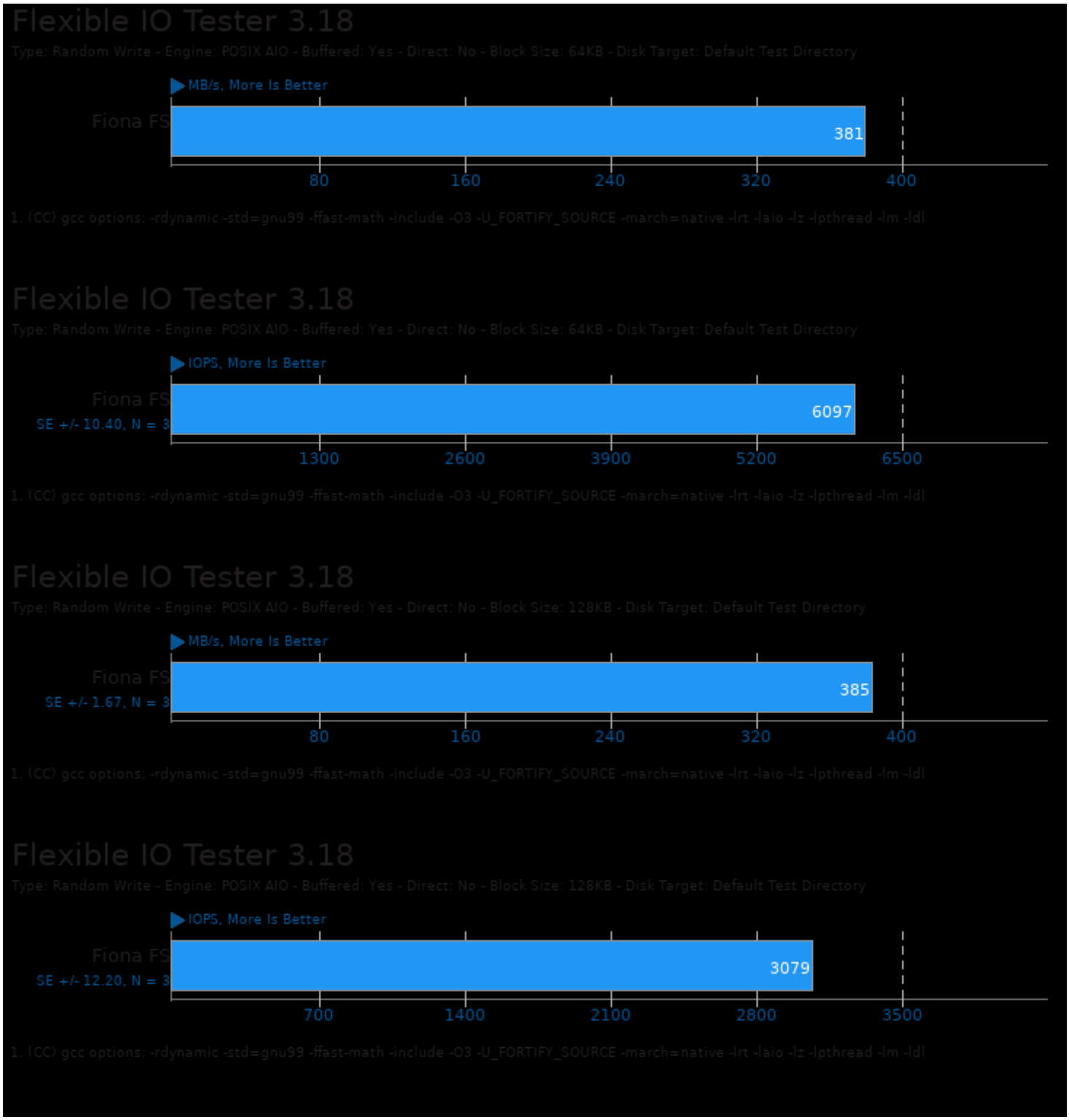
fstests


Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 256KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
250
50
100
150
200
250
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 256KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 1.00, N = 3
996
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
307
70
140
210
280
350
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
610
130
260
390
520
650
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

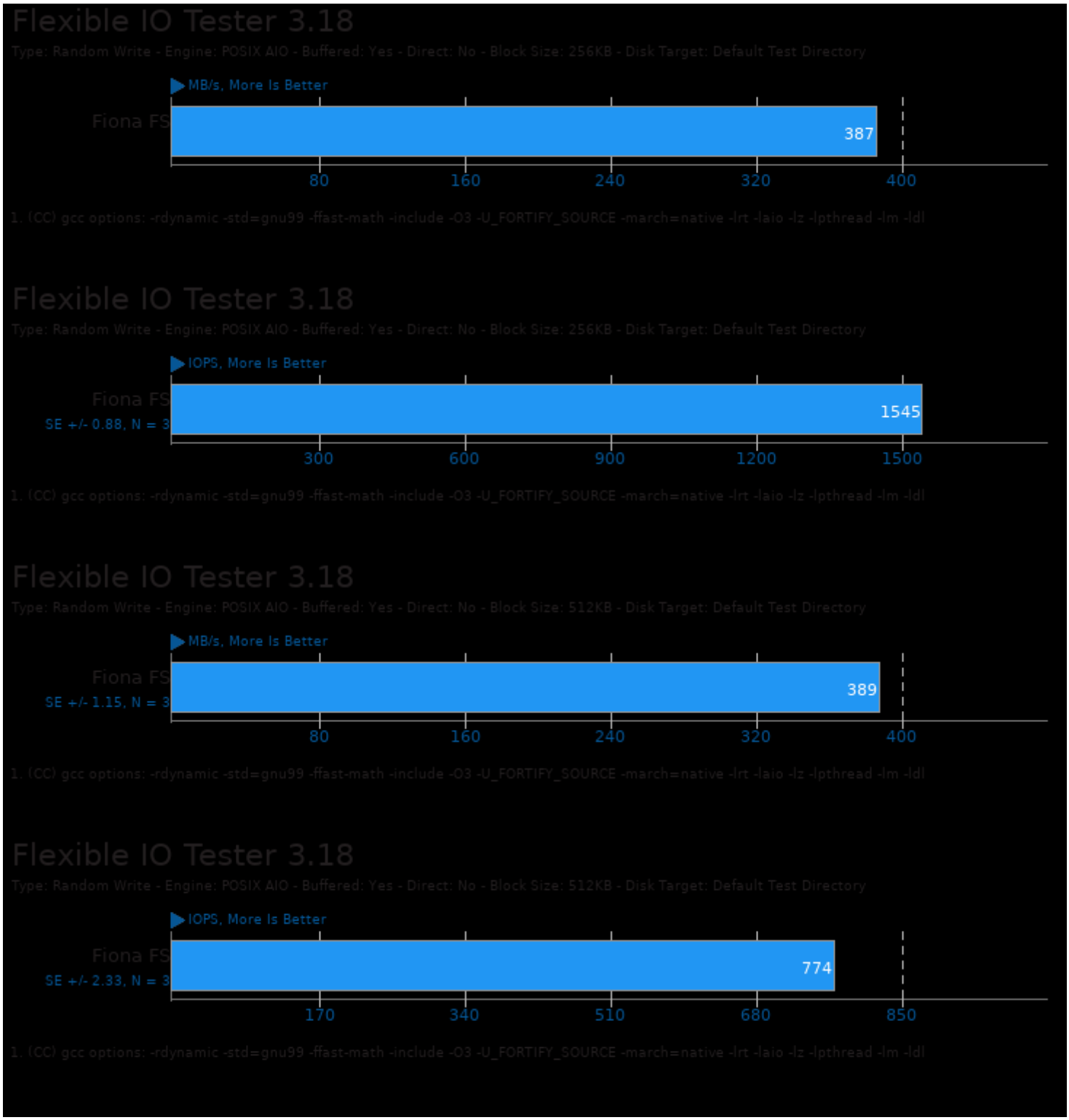
fstests


Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 2.03, N = 3
402
90
180
270
360
450
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 218.58, N = 3
25433
5K
10K
15K
20K
25K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 32KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 0.33, N = 3
375
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 32KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 333.33, N = 3
11333
2K
4K
6K
8K
10K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

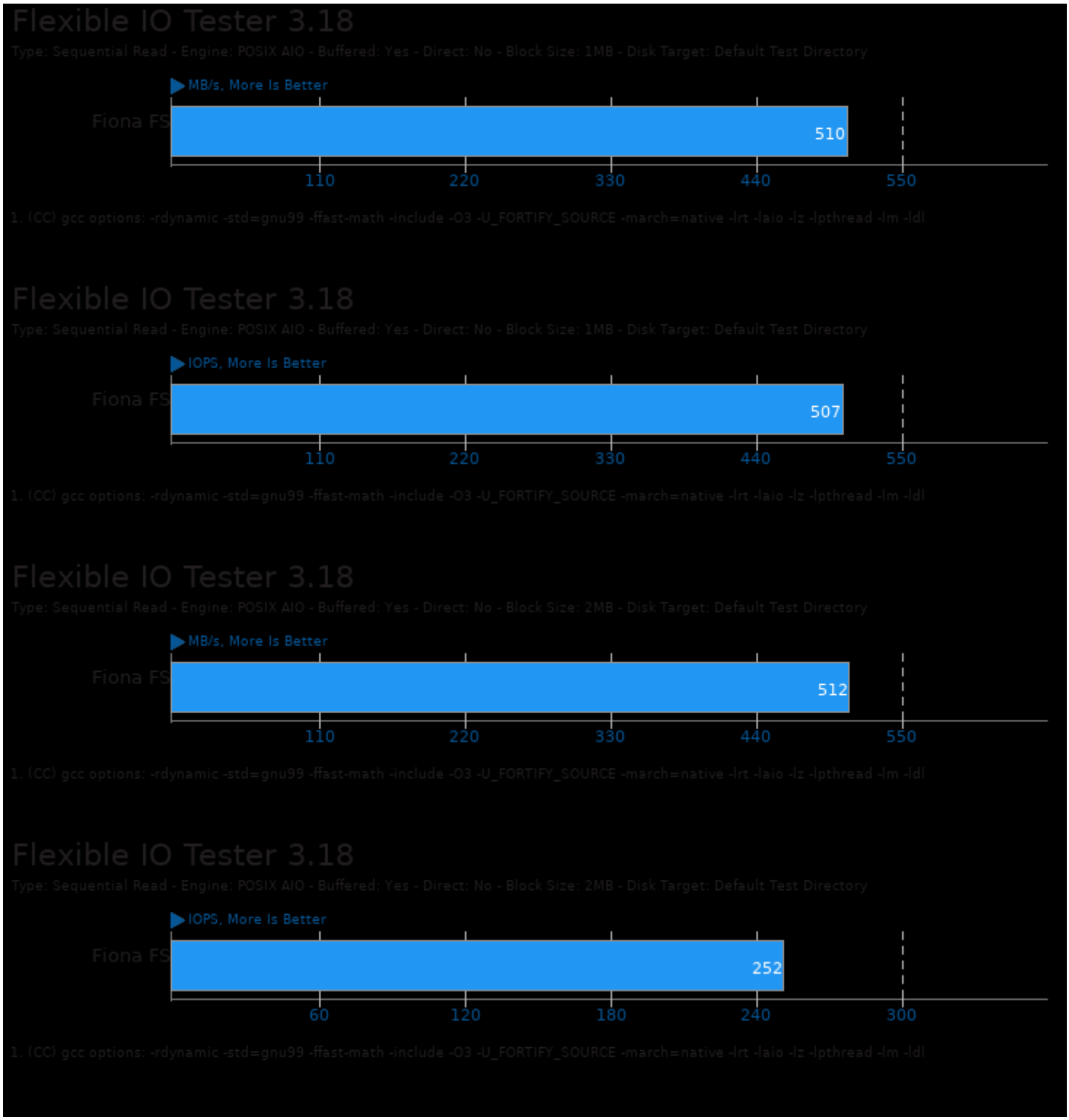
fstests


Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
381
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 10.40, N = 3
6097
1300
2600
3900
5200
6500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 128KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 1.67, N = 3
385
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 128KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 12.20, N = 3
3079
700
1400
2100
2800
3500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

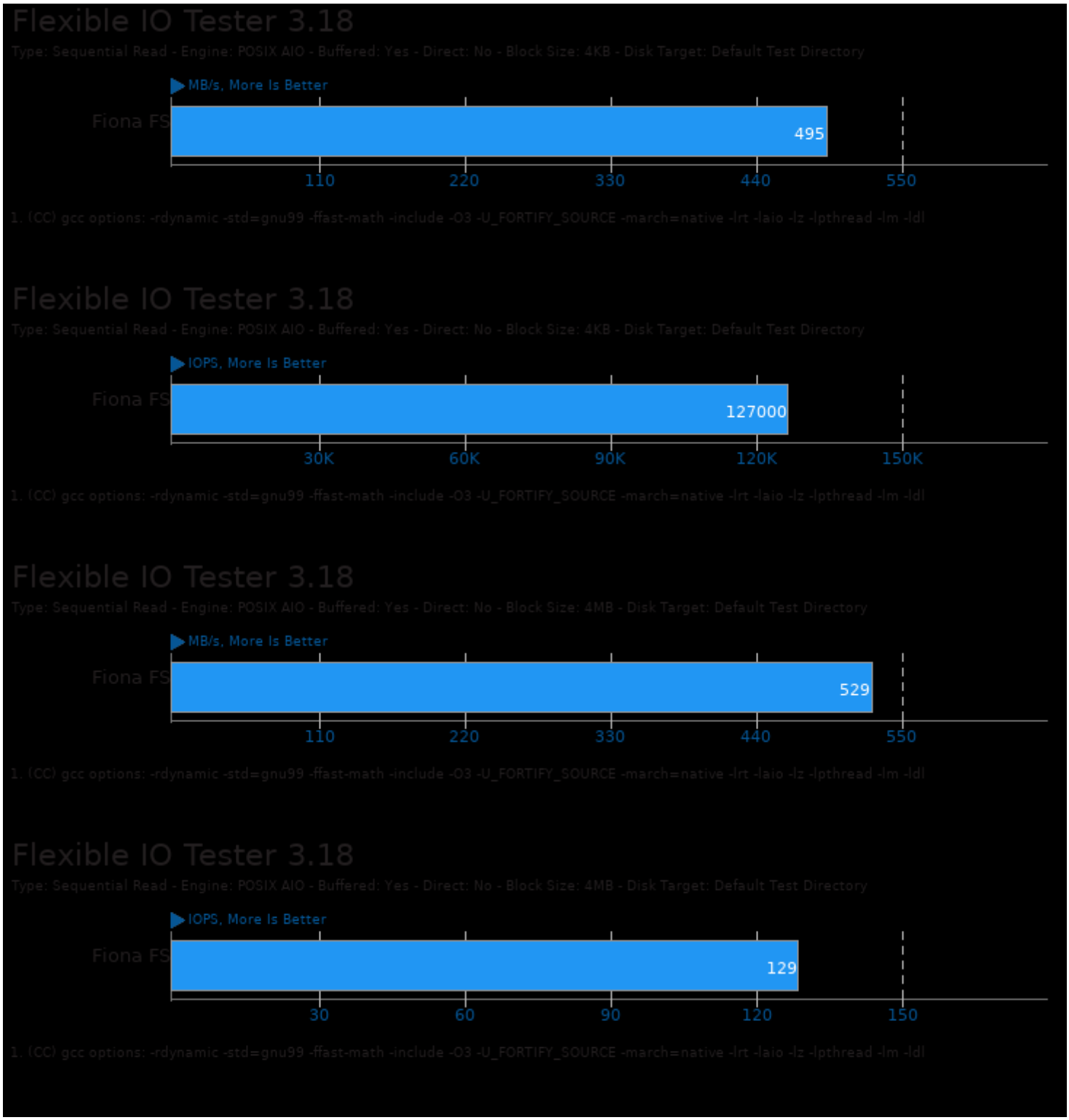
fstests


Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 256KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
387
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 256KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 0.88, N = 3
1545
300
600
900
1200
1500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 1.15, N = 3
389
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 2.33, N = 3
774
170
340
510
680
850
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

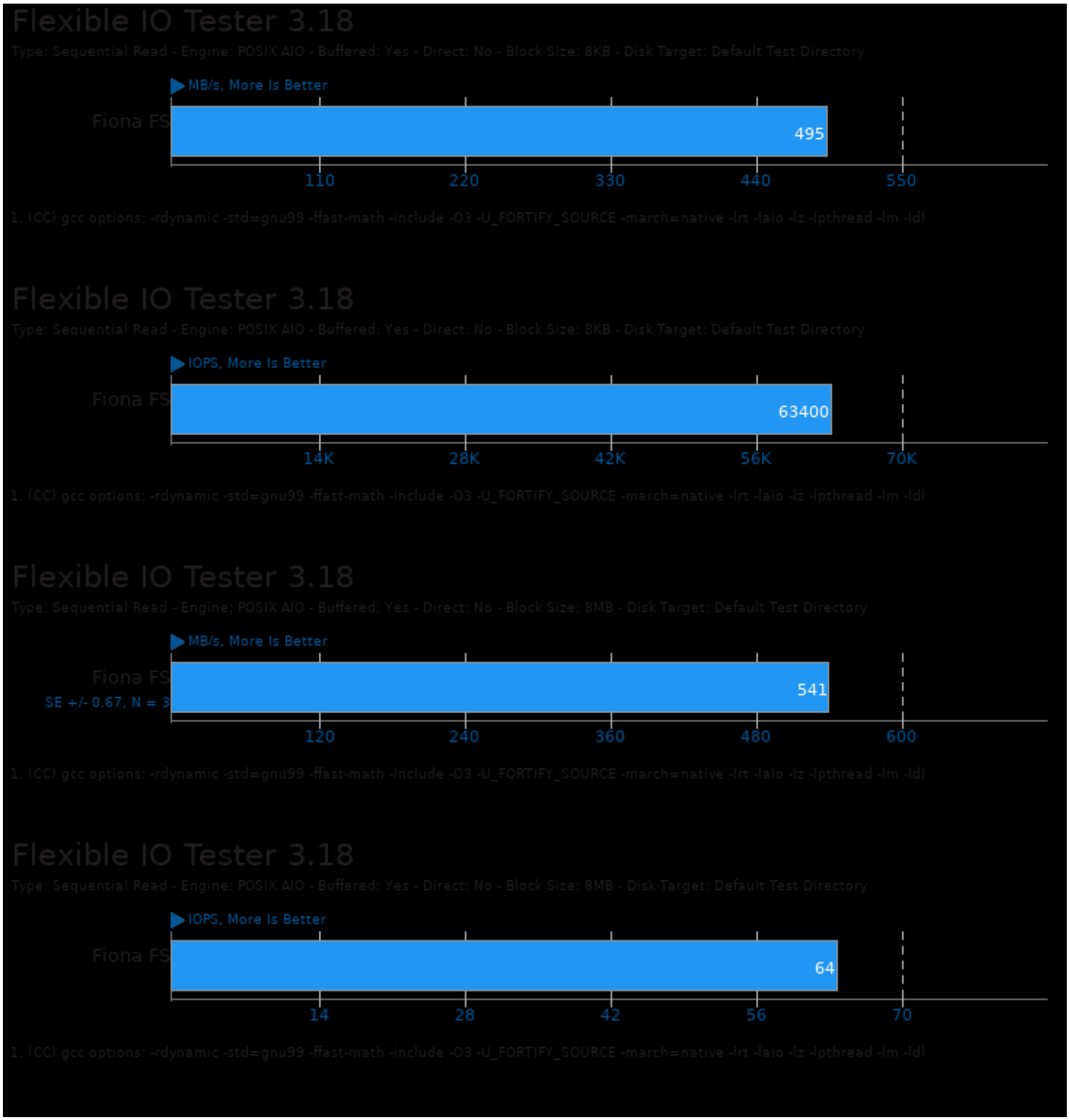
fstests


Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
510
110
220
330
440
550
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
507
110
220
330
440
550
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
512
110
220
330
440
550
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
252
60
120
180
240
300
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

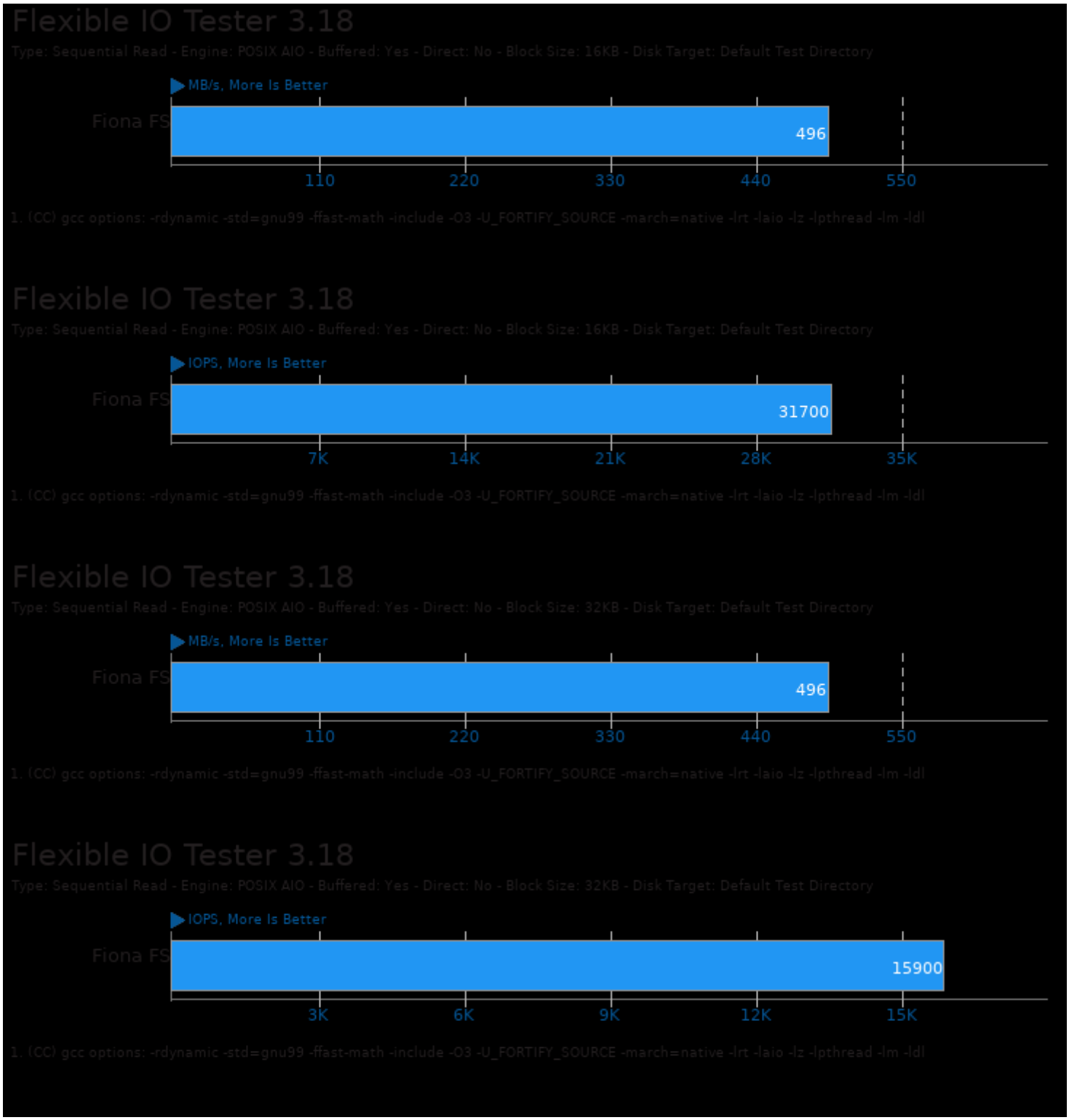
fstests


Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
495
110
220
330
440
550
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
127000
30K
60K
90K
120K
150K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4MB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
529
110
220
330
440
550
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4MB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
129
30
60
90
120
150
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

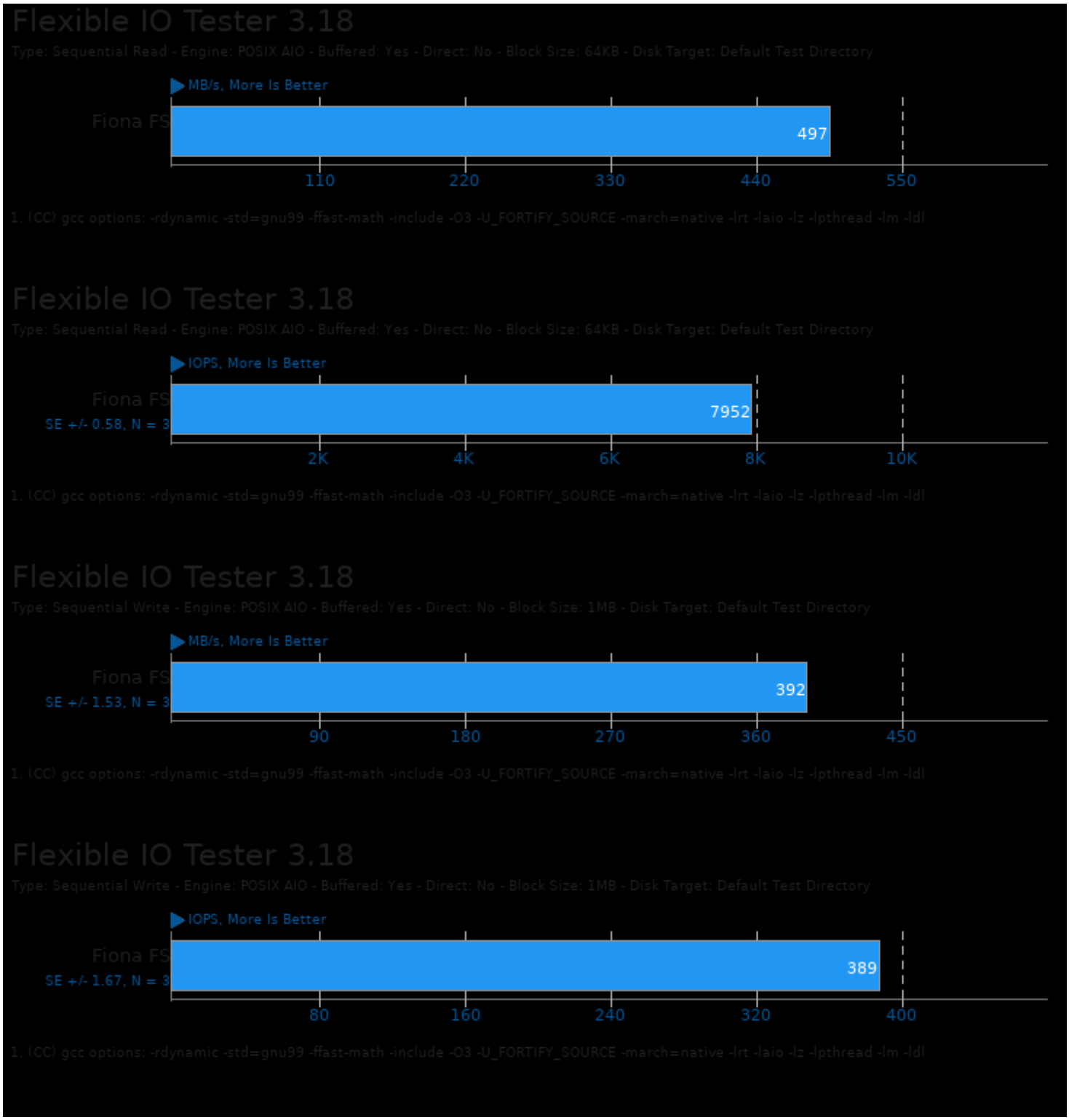
fstests


Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
495
110
220
330
440
550
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
63400
14K
28K
42K
56K
70K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 0.67, N = 3
541
120
240
360
480
600
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
64
14
28
42
56
70
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

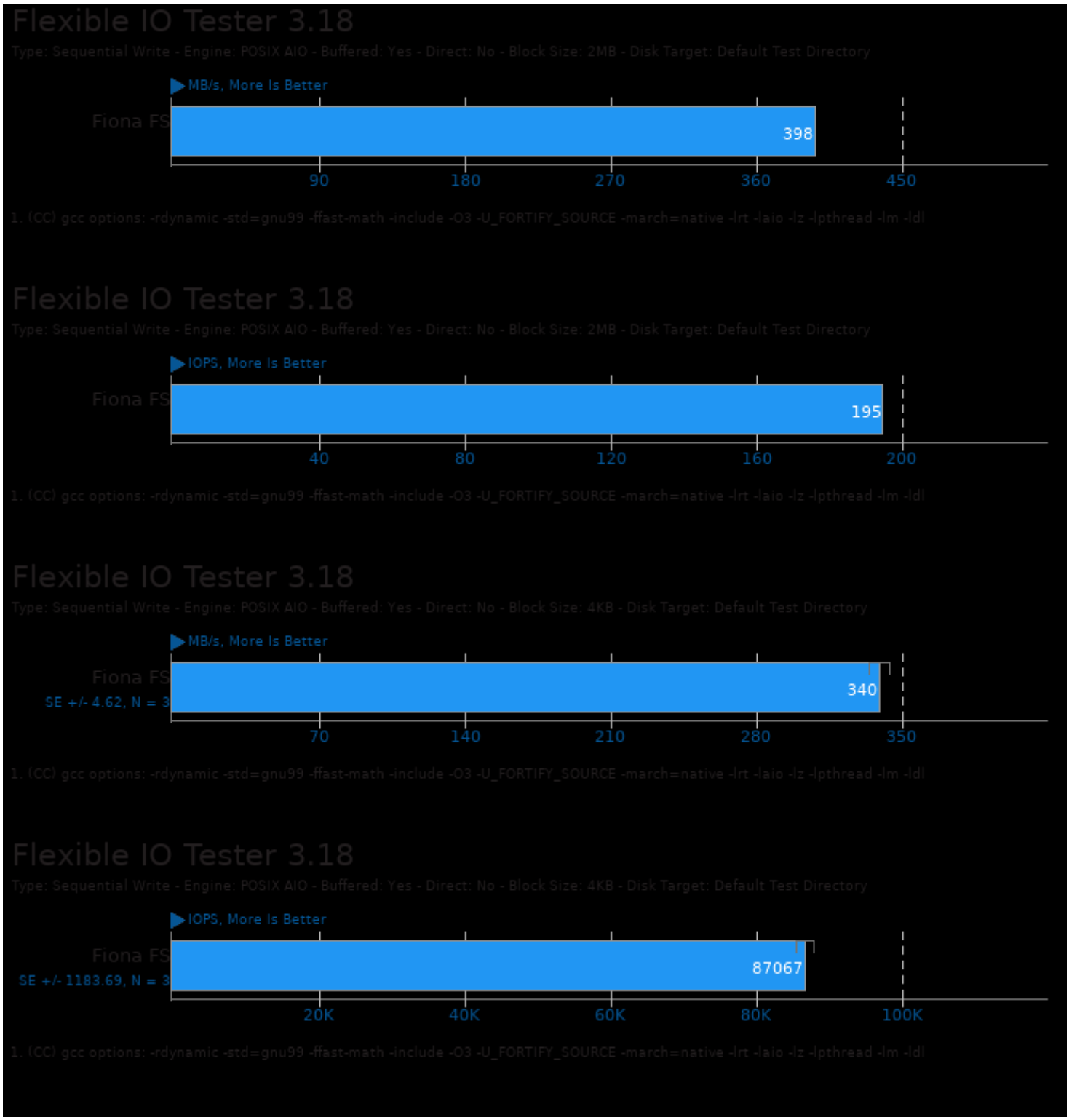
fstests


Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
496
110
220
330
440
550
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
31700
7K
14K
21K
28K
35K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 32KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
496
110
220
330
440
550
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 32KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
15900
3K
6K
9K
12K
15K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

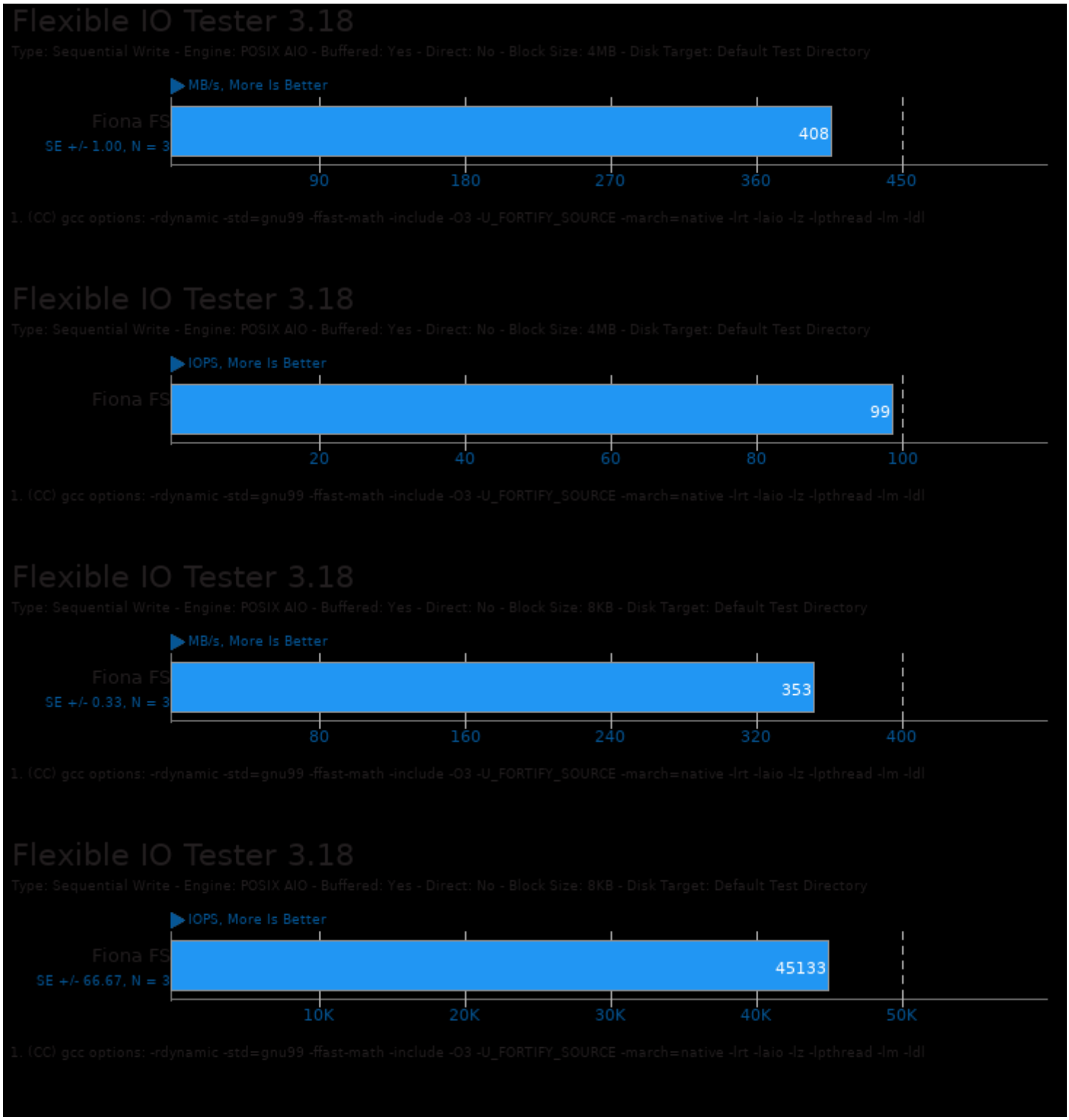
fstests


Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
497
110
220
330
440
550
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 0.58, N = 3
7952
2K
4K
6K
8K
10K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 1.53, N = 3
392
90
180
270
360
450
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 1MB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 1.67, N = 3
389
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

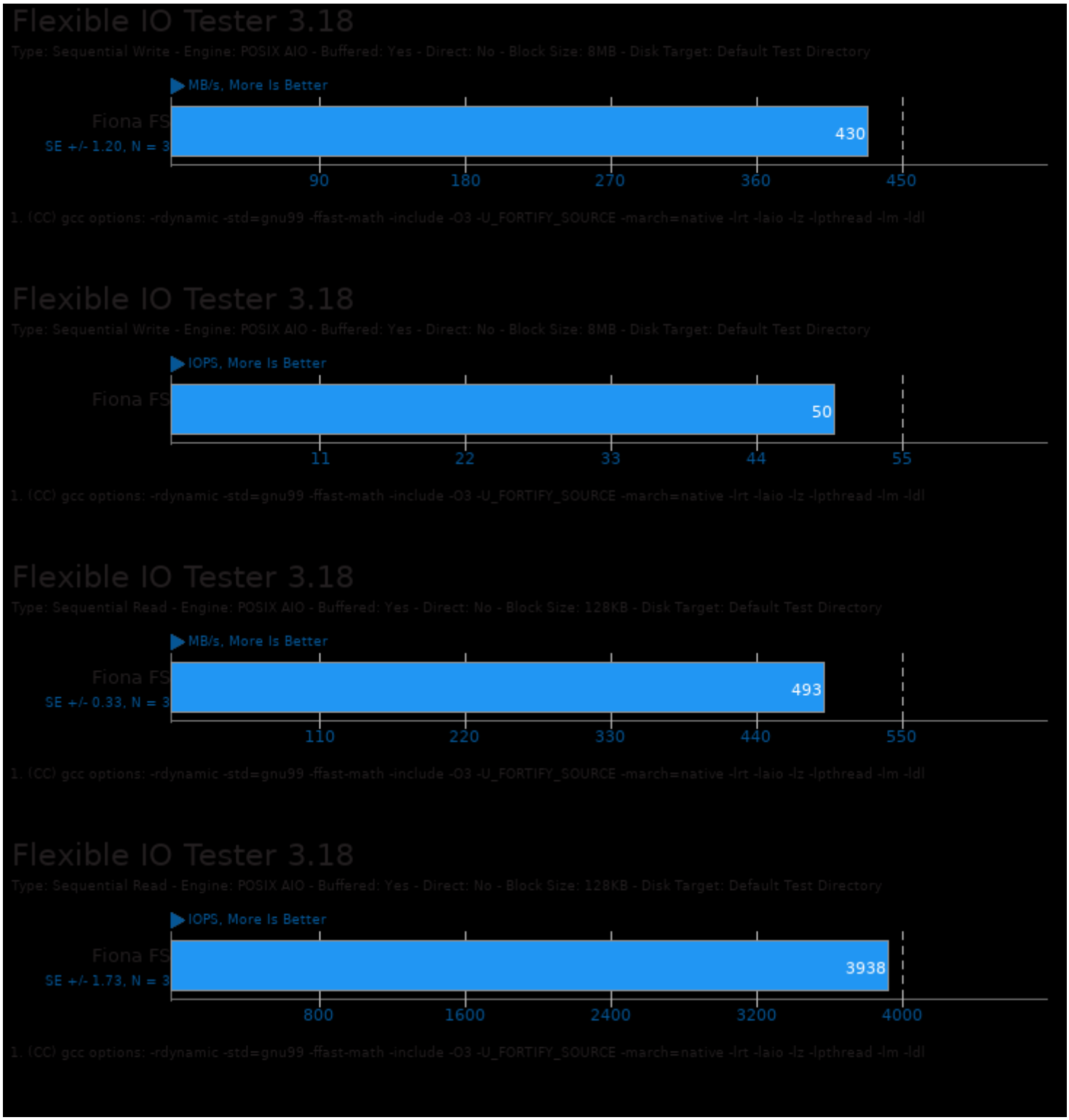
fstests


Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
398
90
180
270
360
450
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
195
40
80
120
160
200
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 4.62, N = 3
340
70
140
210
280
350
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 1183.69, N = 3
87067
20K
40K
60K
80K
100K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

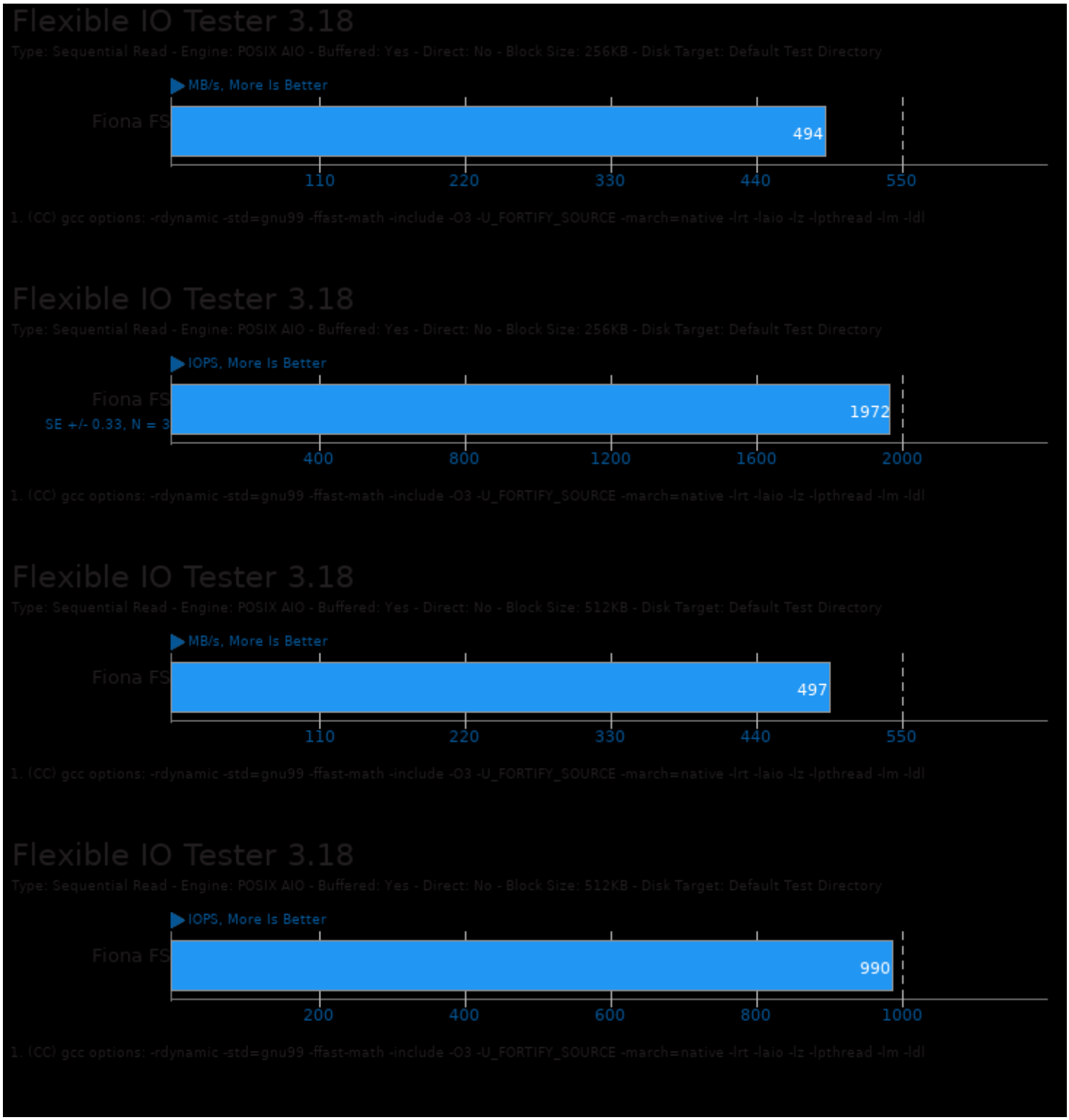
fstests


Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4MB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 1.00, N = 3
408
90
180
270
360
450
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 4MB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
99
20
40
60
80
100
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 0.33, N = 3
353
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 66.67, N = 3
45133
10K
20K
30K
40K
50K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

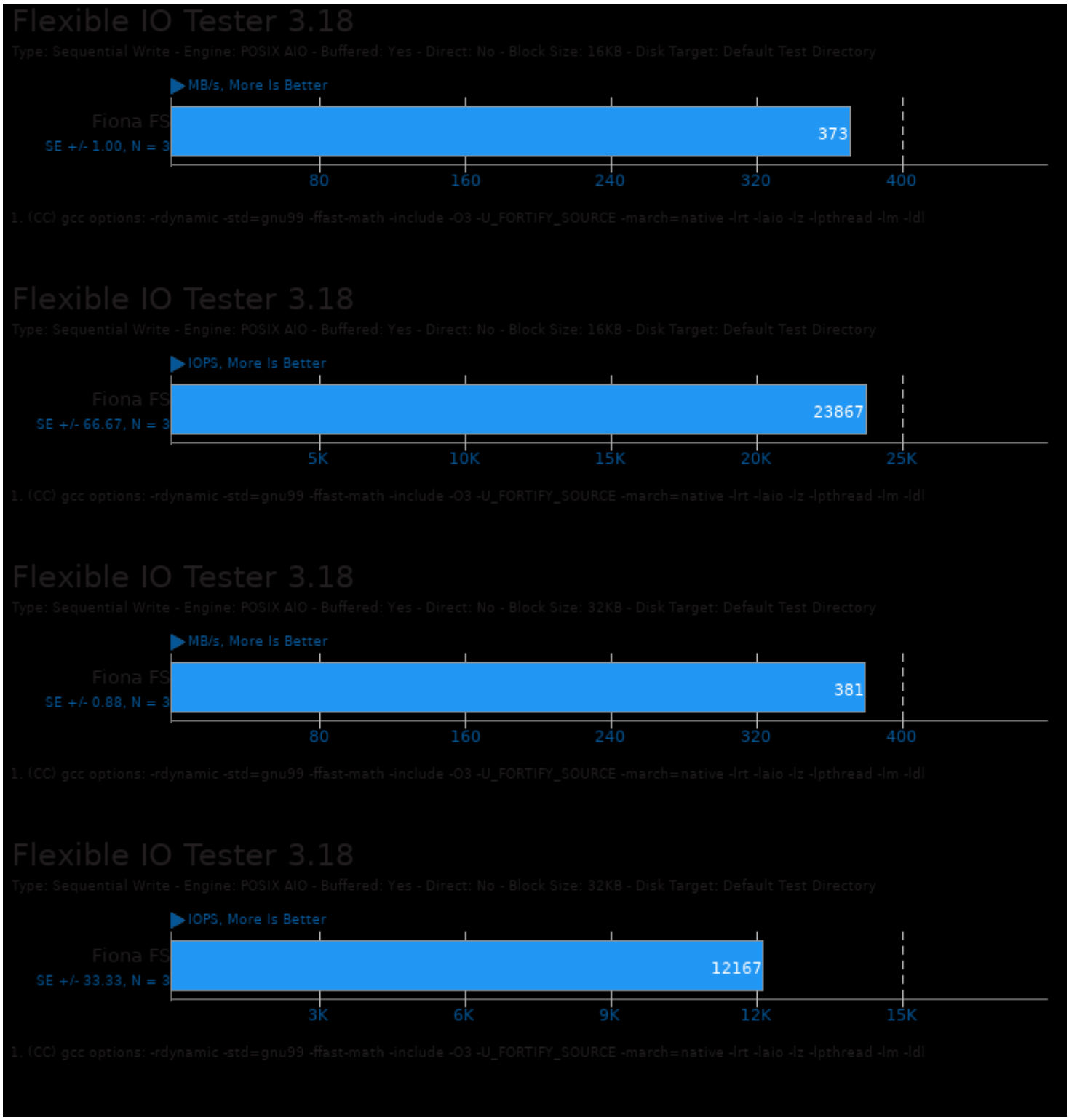
fstests


Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 1.20, N = 3
430
90
180
270
360
450
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
50
11
22
33
44
55
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 128KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 0.33, N = 3
493
110
220
330
440
550
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 128KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 1.73, N = 3
3938
800
1600
2400
3200
4000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

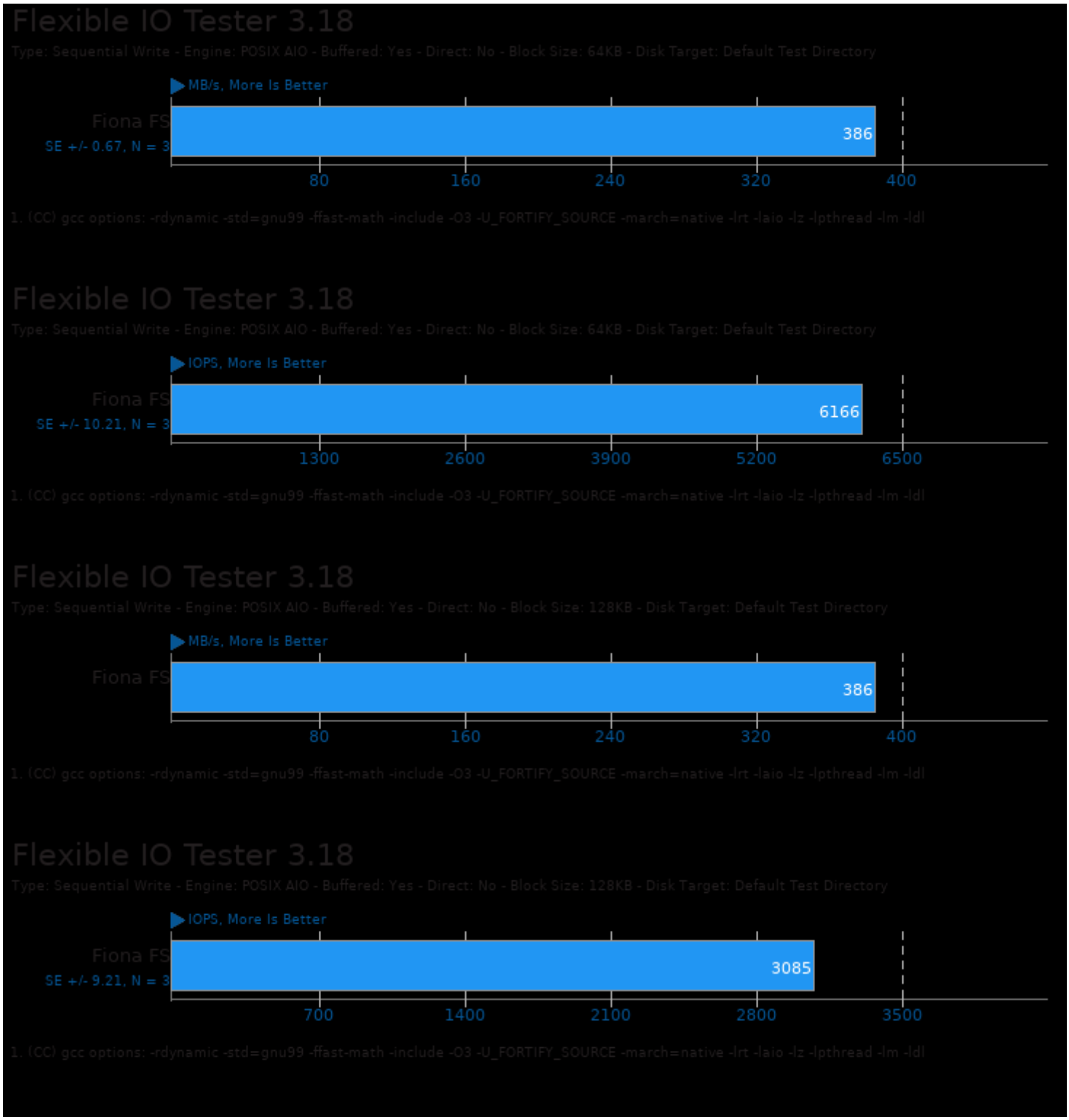
fstests

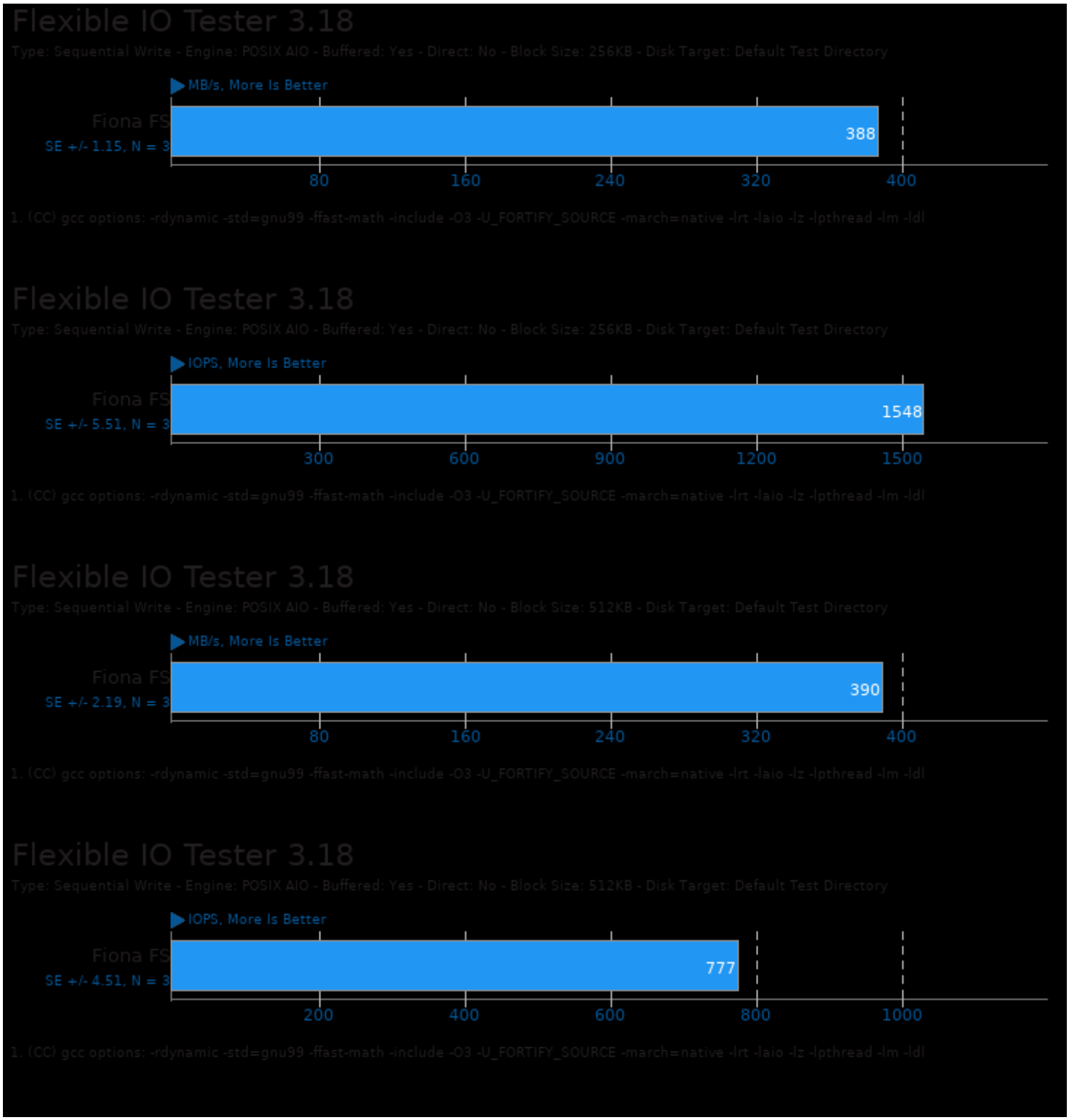

Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 256KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
494
110
220
330
440
550
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 256KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 0.33, N = 3
1972
400
800
1200
1600
2000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
497
110
220
330
440
550
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
990
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

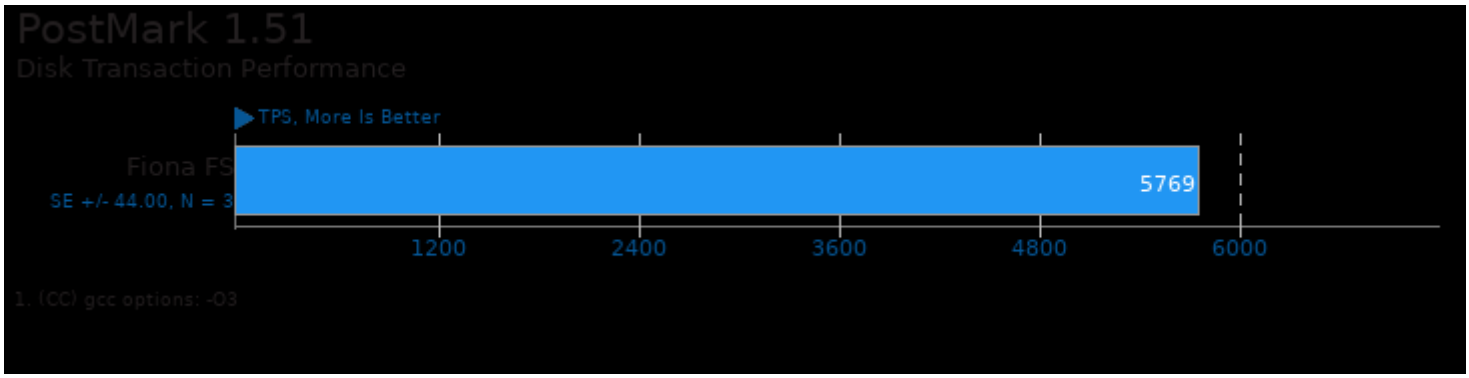
fstests


Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 1.00, N = 3
373
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 66.67, N = 3
23867
5K
10K
15K
20K
25K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 32KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 0.88, N = 3
381
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 32KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 33.33, N = 3
12167
3K
6K
9K
12K
15K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

fstests


Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 0.67, N = 3
386
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 10.21, N = 3
6166
1300
2600
3900
5200
6500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 128KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
386
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 128KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 9.21, N = 3
3085
700
1400
2100
2800
3500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 256KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 1.15, N = 3
388
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 256KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 5.51, N = 3
1548
300
600
900
1200
1500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
Fiona FS
SE +/- 2.19, N = 3
390
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: POSIX AIO - Buffered: Yes - Direct: No - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
Fiona FS
SE +/- 4.51, N = 3
777
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl



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