

www.phoronix-test-suite.com

disk-fio

Docker testing on CentOS Linux 7 via the Phoronix Test Suite.

Test Systems:

2 x 2000GB Seagate ST2000DM008-2FR1

Processor: Intel Core i5-4670 @ 3.80GHz (4 Cores), Motherboard: Intel DH87MC (MCH8710H.86A.0153.2013.1205.2003 BIOS), Memory: 8192MB, Disk: 2 x 2000GB Seagate ST2000DM008-2FR1

OS: CentOS Linux 7, Kernel: 3.10.0-1127.10.1.el7.x86_64 (x86_64), Compiler: GCC 4.8.5 20150623, File-System: overlayfs, System Layer: Docker

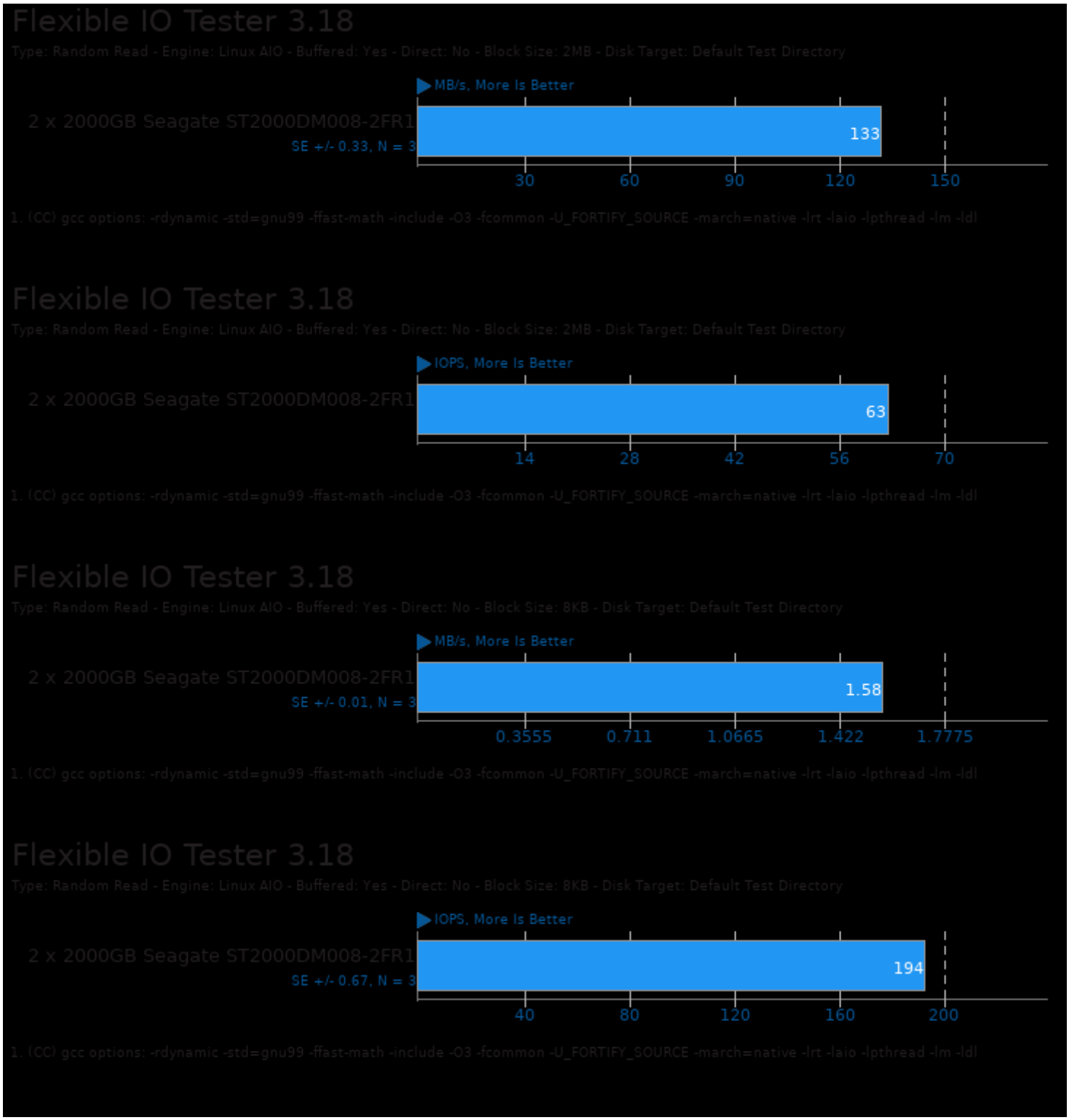
Compiler Notes: --build=x86_64-redhat-linux --disable-libgcj --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,java,fortran,ada,go,lto --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-linker-hash-style=gnu --with-tune=generic
Processor Notes: Scaling Governor: intel_pstate powersave
Disk Scheduler Notes: DEADLINE
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT disabled + mds: Mitigation of Clear buffers; SMT disabled + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of Load fences usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full retpoline IBPB + tsx_async_abort: Not affected

disk-fio

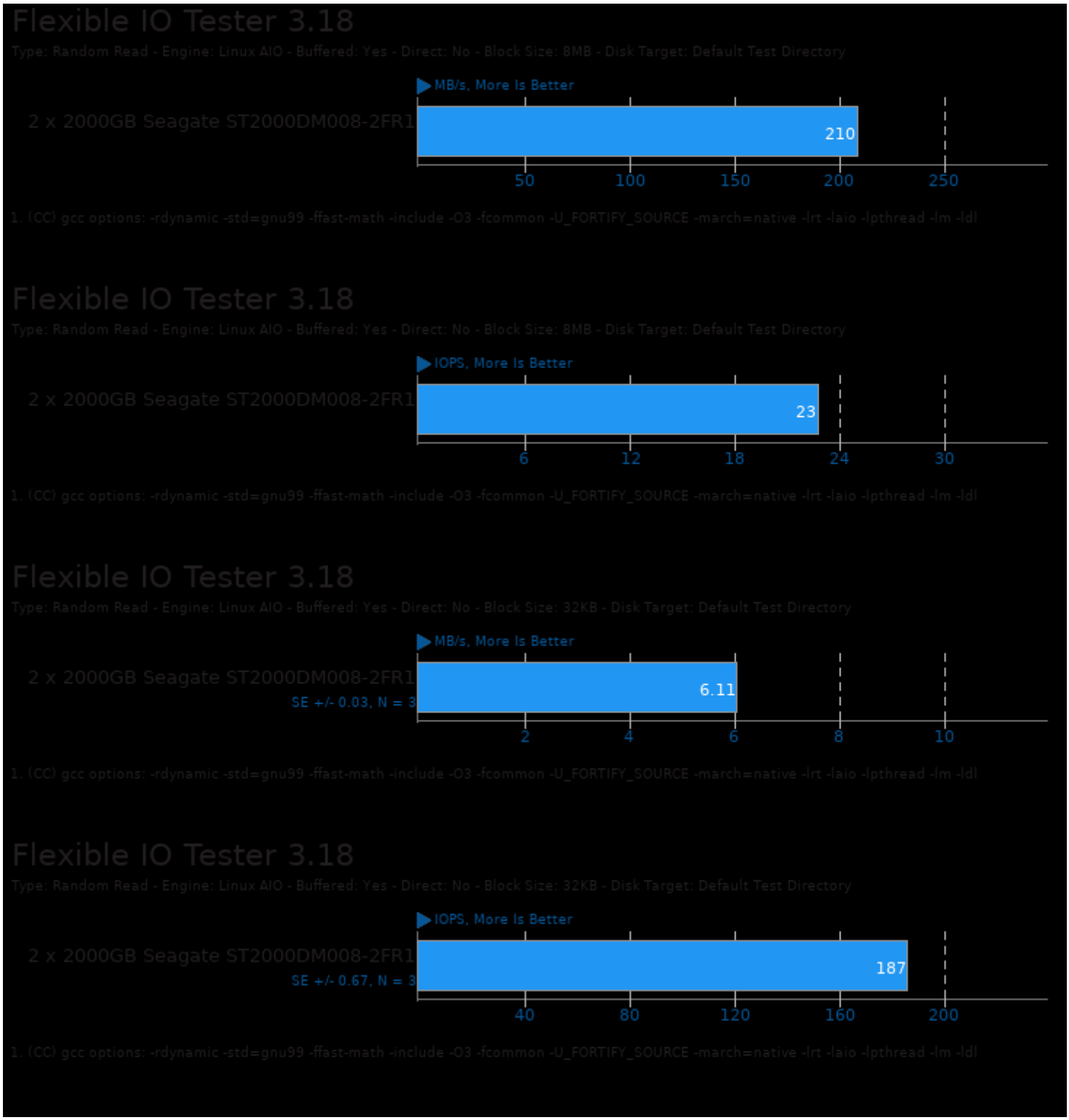
	2 x 2000GB Seagate ST2000DM008-2FR1
Flexible IO Tester - Rand Read - Linux AIO - Yes - No - 2MB (MB/s)	133
Standard Deviation	0.4%
Flexible IO Tester - Rand Read - Linux AIO - Yes - No - 2MB (IOPS)	63
Flexible IO Tester - Rand Read - Linux AIO - Yes - No - 8KB (MB/s)	1.58
Standard Deviation	0.7%
Flexible IO Tester - Rand Read - Linux AIO - Yes - No - 8KB (IOPS)	194
Standard Deviation	0.6%
Flexible IO Tester - Rand Read - Linux AIO - Yes - No - 8MB (MB/s)	210
Flexible IO Tester - Rand Read - Linux AIO - Yes - No - 8MB (IOPS)	23
Flexible IO Tester - Rand Read - Linux AIO - Yes - No - 32KB (MB/s)	6.11
Standard Deviation	0.7%
Flexible IO Tester - Rand Read - Linux AIO - Yes - No - 32KB (IOPS)	187
Standard Deviation	0.6%
Flexible IO Tester - Rand Write - Linux AIO - Yes - No - 2MB (MB/s)	226
Standard Deviation	18.2%
Flexible IO Tester - Rand Write - Linux AIO - Yes - No - 2MB (IOPS)	110
Standard Deviation	18.8%
Flexible IO Tester - Rand Write - Linux AIO - Yes - No - 8KB (MB/s)	29.53
Standard Deviation	36.2%
Flexible IO Tester - Rand Write - Linux AIO - Yes - No - 8KB (IOPS)	3776
Standard Deviation	36.2%
Flexible IO Tester - Rand Write - Linux AIO - Yes - No - 8MB (MB/s)	220
Standard Deviation	5.1%
Flexible IO Tester - Rand Write - Linux AIO - Yes - No - 8MB (IOPS)	24
Standard Deviation	6.5%
Flexible IO Tester - Rand Read - Linux AIO - Yes - No - 128KB	22.27
Standard Deviation	0.3%
Flexible IO Tester - Rand Read - Linux AIO - Yes - No - 128KB	175
Standard Deviation	0.3%
Flexible IO Tester - Rand Read - Linux AIO - Yes - No - 512KB	63.87
Standard Deviation	0.1%
Flexible IO Tester - Rand Read - Linux AIO - Yes - No - 512KB	124
Flexible IO Tester - Rand Write - Linux AIO - Yes - No - 32KB (MB/s)	140.40
Standard Deviation	25.2%
Flexible IO Tester - Rand Write - Linux AIO - Yes - No - 32KB (IOPS)	4491
Standard Deviation	25.3%
Flexible IO Tester - Rand Write - Linux AIO - Yes - No - 128KB	226
Standard Deviation	16.9%
Flexible IO Tester - Rand Write - Linux AIO - Yes - No - 128KB	1806
Standard Deviation	17%
Flexible IO Tester - Rand Write - Linux AIO - Yes - No - 512KB	270
Standard Deviation	15.8%
Flexible IO Tester - Rand Write - Linux AIO - Yes - No - 512KB	536
Standard Deviation	15.9%
Flexible IO Tester - Seq Read - Linux AIO - Yes - No - 2MB (MB/s)	222
Flexible IO Tester - Seq Read - Linux AIO - Yes - No - 2MB (IOPS)	108
Flexible IO Tester - Seq Read - Linux AIO - Yes - No - 8KB (MB/s)	216
Standard Deviation	0.3%
Flexible IO Tester - Seq Read - Linux AIO - Yes - No - 8KB (IOPS)	27600
Flexible IO Tester - Seq Read - Linux AIO - Yes - No - 8MB (MB/s)	241

Standard Deviation	0.9%
Flexible IO Tester - Seq Read - Linux AIO - Yes - No - 8MB (IOPS)	27
Standard Deviation	2.2%
Flexible IO Tester - Seq Read - Linux AIO - Yes - No - 32KB (MB/s)	216
Flexible IO Tester - Seq Read - Linux AIO - Yes - No - 32KB (IOPS)	6906
Standard Deviation	0.4%
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 2MB (MB/s)	279
Standard Deviation	22.8%
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 2MB (IOPS)	136
Standard Deviation	23.5%
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 8KB (MB/s)	190
Standard Deviation	2.9%
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 8KB (IOPS)	24233
Standard Deviation	2.7%
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 8MB (MB/s)	236
Standard Deviation	6.4%
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 8MB (IOPS)	26
Standard Deviation	7.3%
Flexible IO Tester - Seq Read - Linux AIO - Yes - No - 128KB (MB/s)	216
Flexible IO Tester - Seq Read - Linux AIO - Yes - No - 128KB (IOPS)	1723
Standard Deviation	0.2%
Flexible IO Tester - Seq Read - Linux AIO - Yes - No - 512KB (MB/s)	218
Standard Deviation	0.3%
Flexible IO Tester - Seq Read - Linux AIO - Yes - No - 512KB (IOPS)	432
Standard Deviation	0.2%
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 32KB (MB/s)	291
Standard Deviation	32.2%
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 32KB (IOPS)	9291
Standard Deviation	32.1%
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 128KB (MB/s)	346
Standard Deviation	33.5%
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 128KB (IOPS)	2765
Standard Deviation	33.5%
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 512KB (MB/s)	231
Standard Deviation	21.8%
Flexible IO Tester - Seq Write - Linux AIO - Yes - No - 512KB (IOPS)	459
Standard Deviation	22%

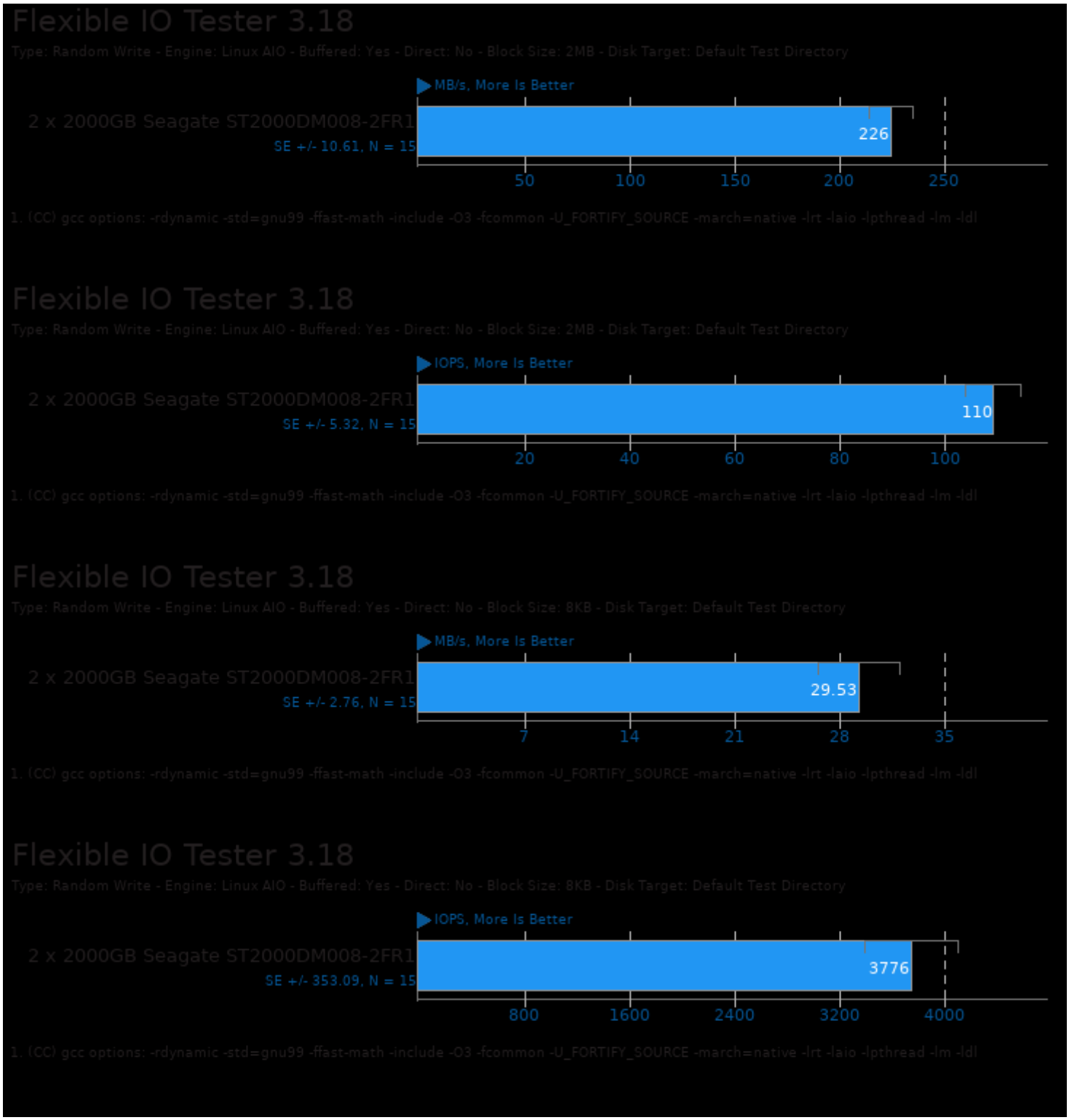
disk-fio


Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 0.33, N = 3
133
30
60
90
120
150
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
63
14
28
42
56
70
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 0.01, N = 3
1.58
0.3555
0.711
1.0665
1.422
1.7775
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 0.67, N = 3
194
40
80
120
160
200
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

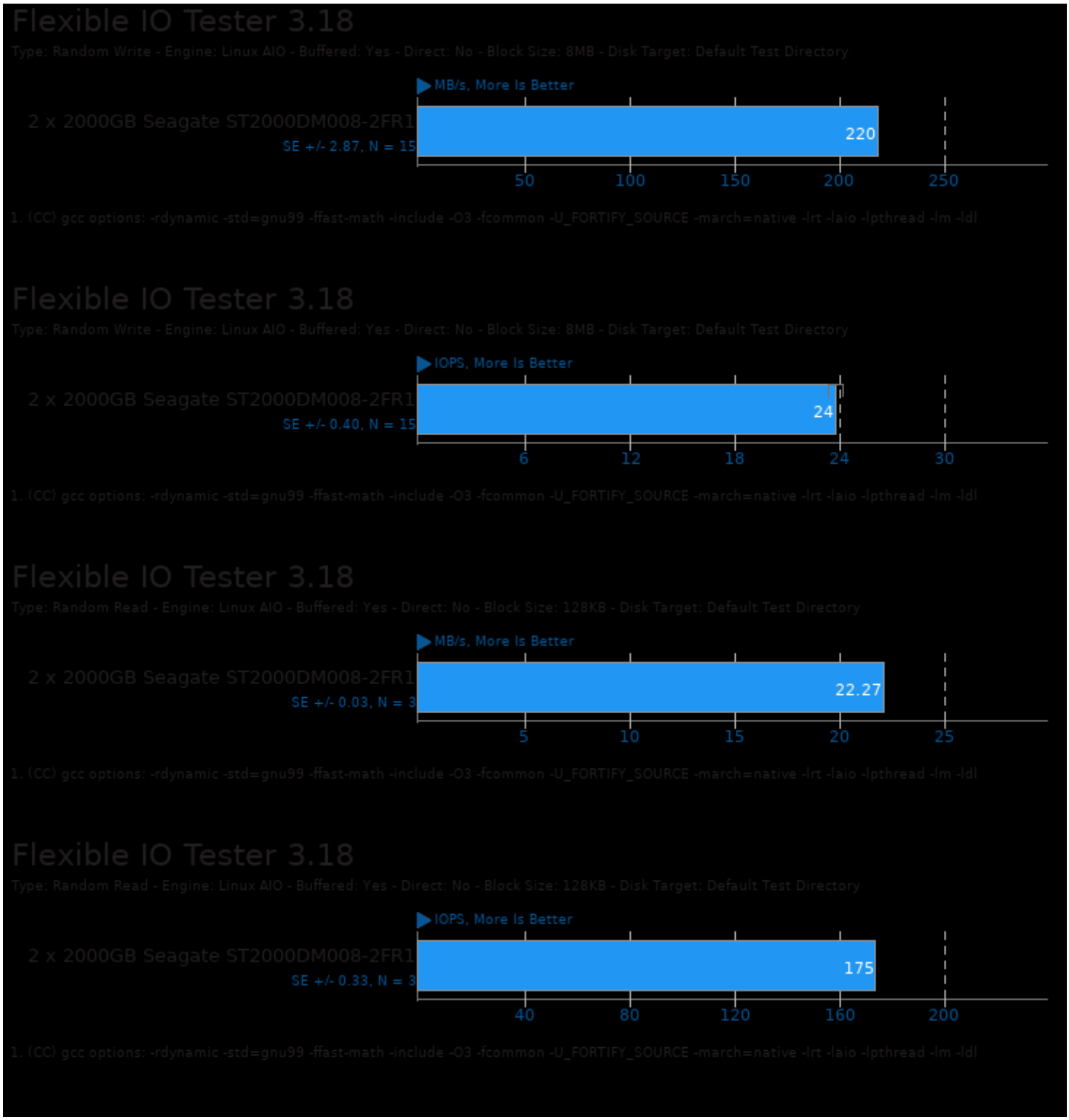
disk-fio


Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
210
50
100
150
200
250
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
23
6
12
18
24
30
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 32KB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 0.03, N = 3
6.11
2
4
6
8
10
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 32KB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 0.67, N = 3
187
40
80
120
160
200
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

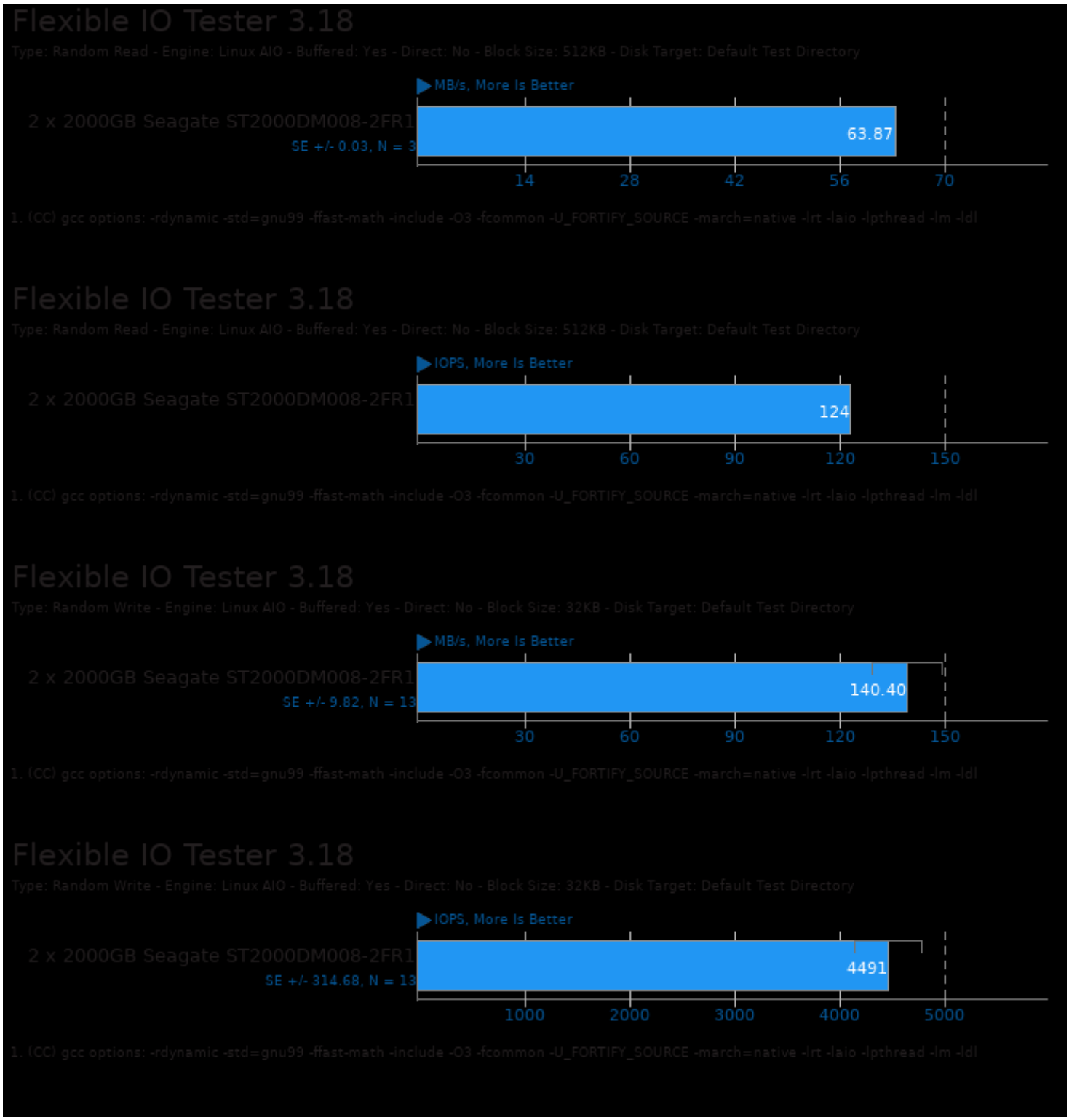
disk-fio


Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 10.61, N = 15
226
50
100
150
200
250
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 5.32, N = 15
110
20
40
60
80
100
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 2.76, N = 15
29.53
7
14
21
28
35
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 353.09, N = 15
3776
800
1600
2400
3200
4000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

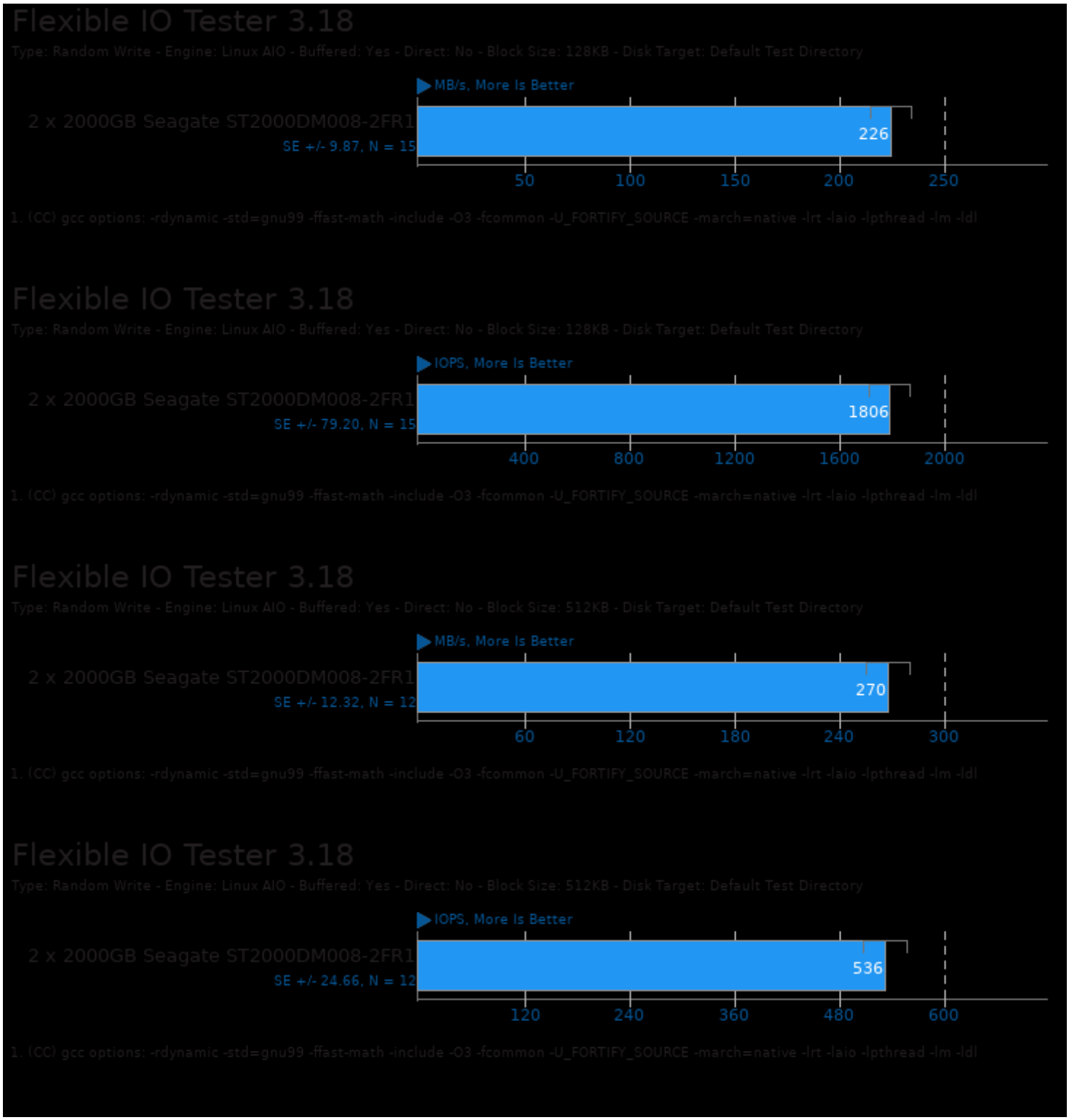
disk-fio


Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 2.87, N = 15
220
50
100
150
200
250
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 0.40, N = 15
24
6
12
18
24
30
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 128KB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 0.03, N = 3
22.27
5
10
15
20
25
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 128KB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 0.33, N = 3
175
40
80
120
160
200
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

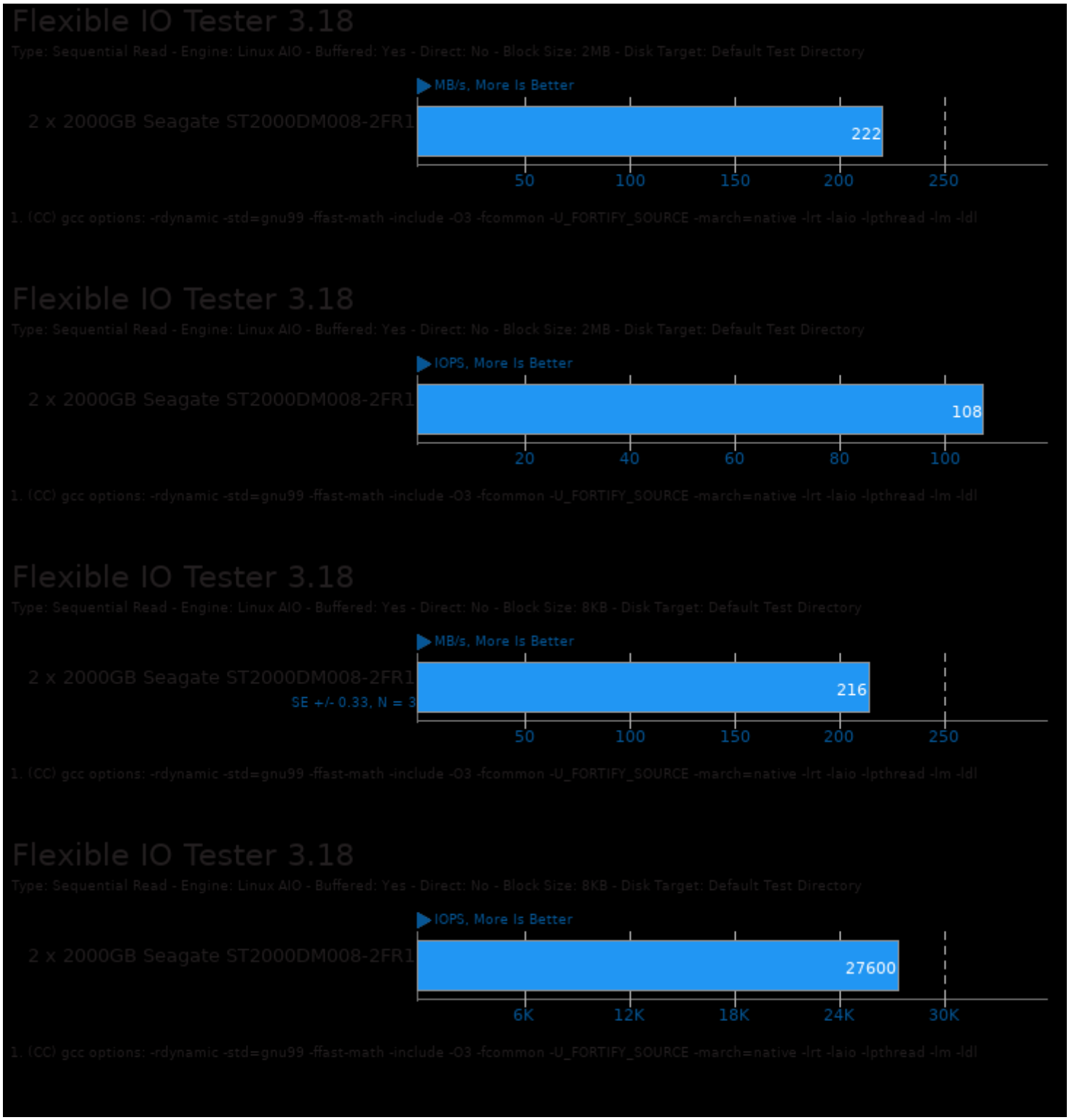
disk-fio


Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 0.03, N = 3
63.87
14
28
42
56
70
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
124
30
60
90
120
150
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 32KB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 9.82, N = 13
140.40
30
60
90
120
150
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 32KB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 314.68, N = 13
4491
1000
2000
3000
4000
5000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

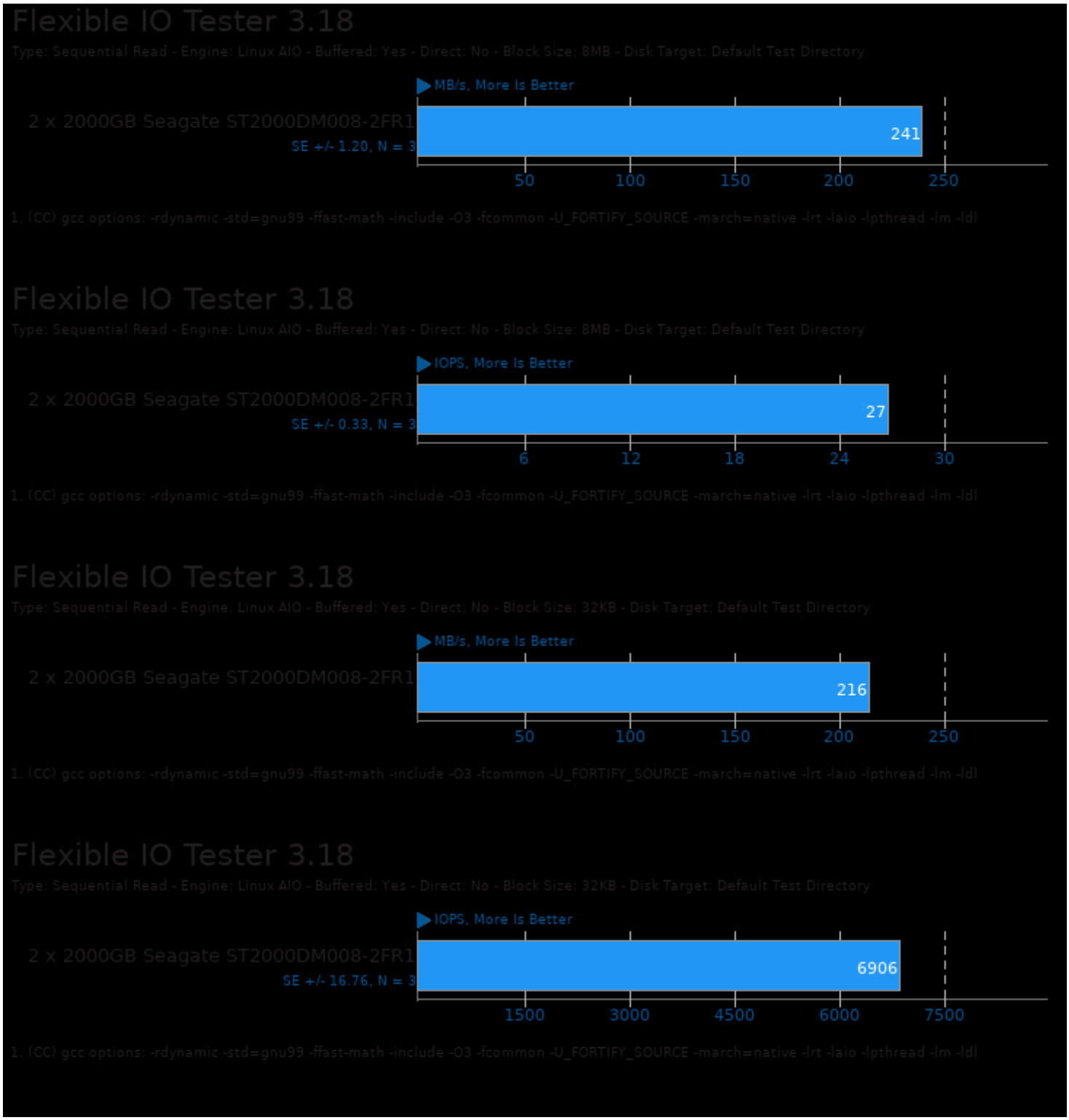
disk-fio


Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 128KB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 9.87, N = 15
226
50
100
150
200
250
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 128KB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 79.20, N = 15
1806
400
800
1200
1600
2000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 12.32, N = 12
270
60
120
180
240
300
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 24.66, N = 12
536
120
240
360
480
600
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

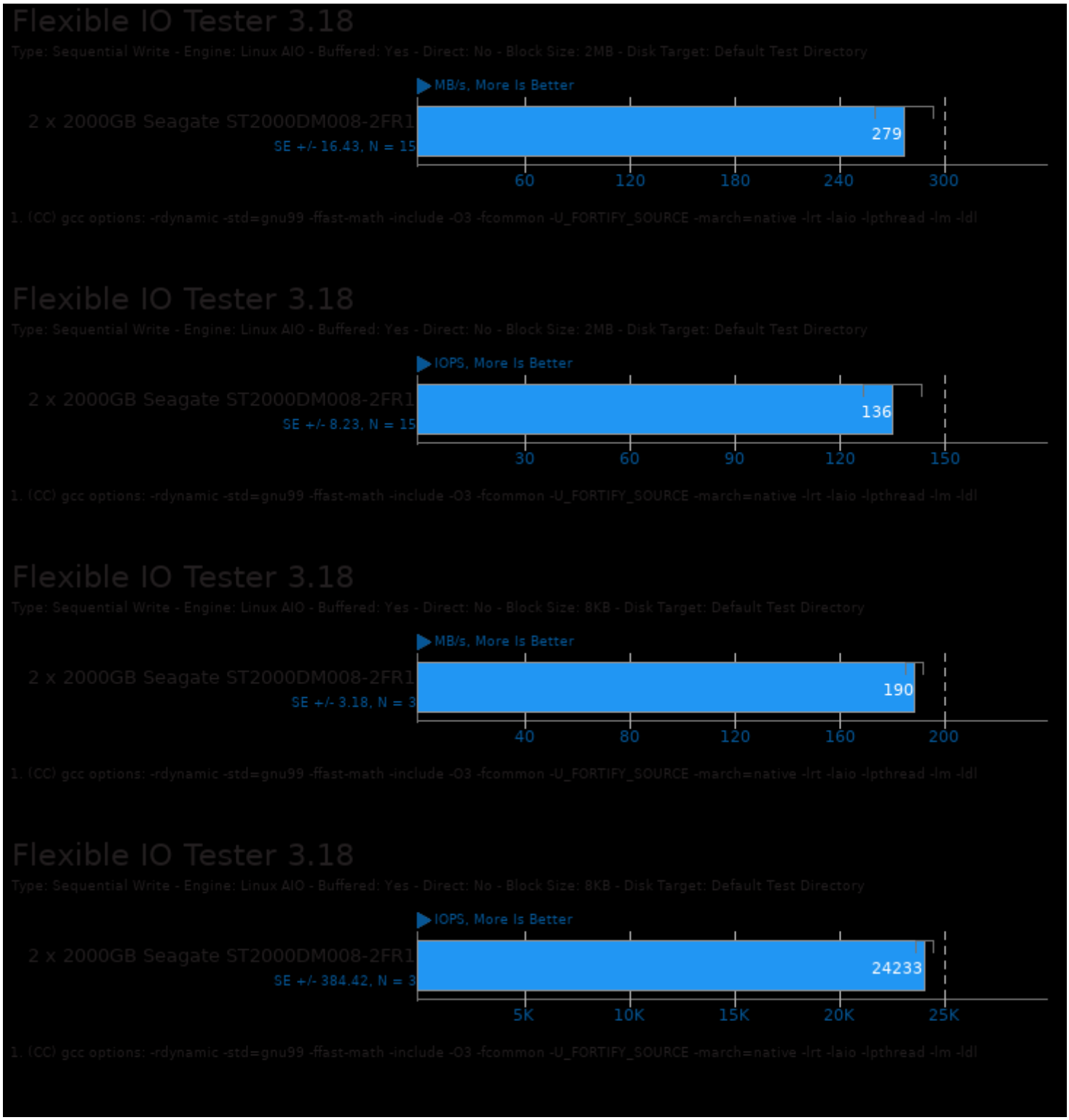
disk-fio


Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
222
50
100
150
200
250
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
108
20
40
60
80
100
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 0.33, N = 3
216
50
100
150
200
250
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
27600
6K
12K
18K
24K
30K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

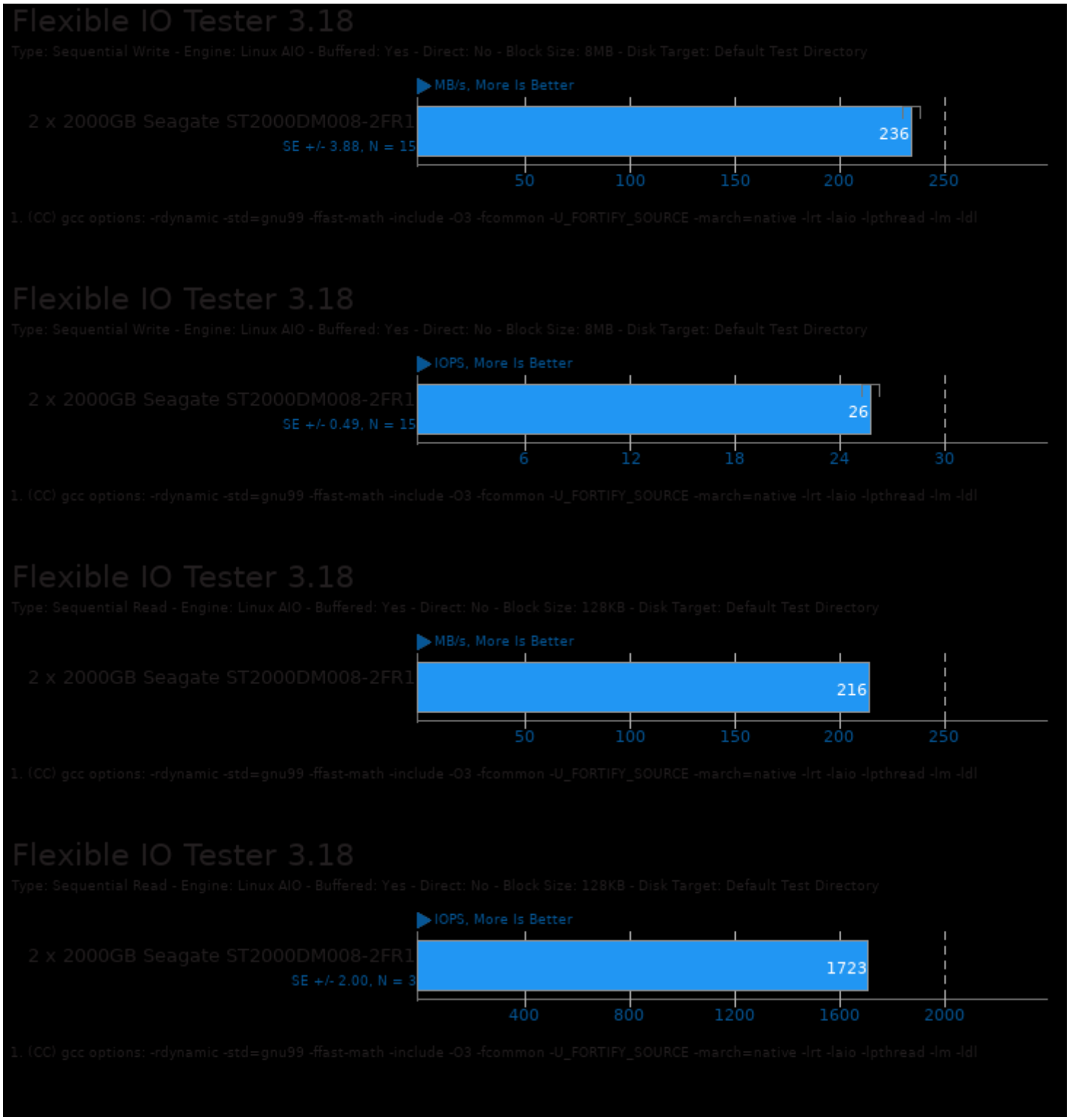
disk-fio


Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 1.20, N = 3
241
50
100
150
200
250
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 0.33, N = 3
27
6
12
18
24
30
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 32KB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
216
50
100
150
200
250
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 32KB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 16.76, N = 3
6906
1500
3000
4500
6000
7500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

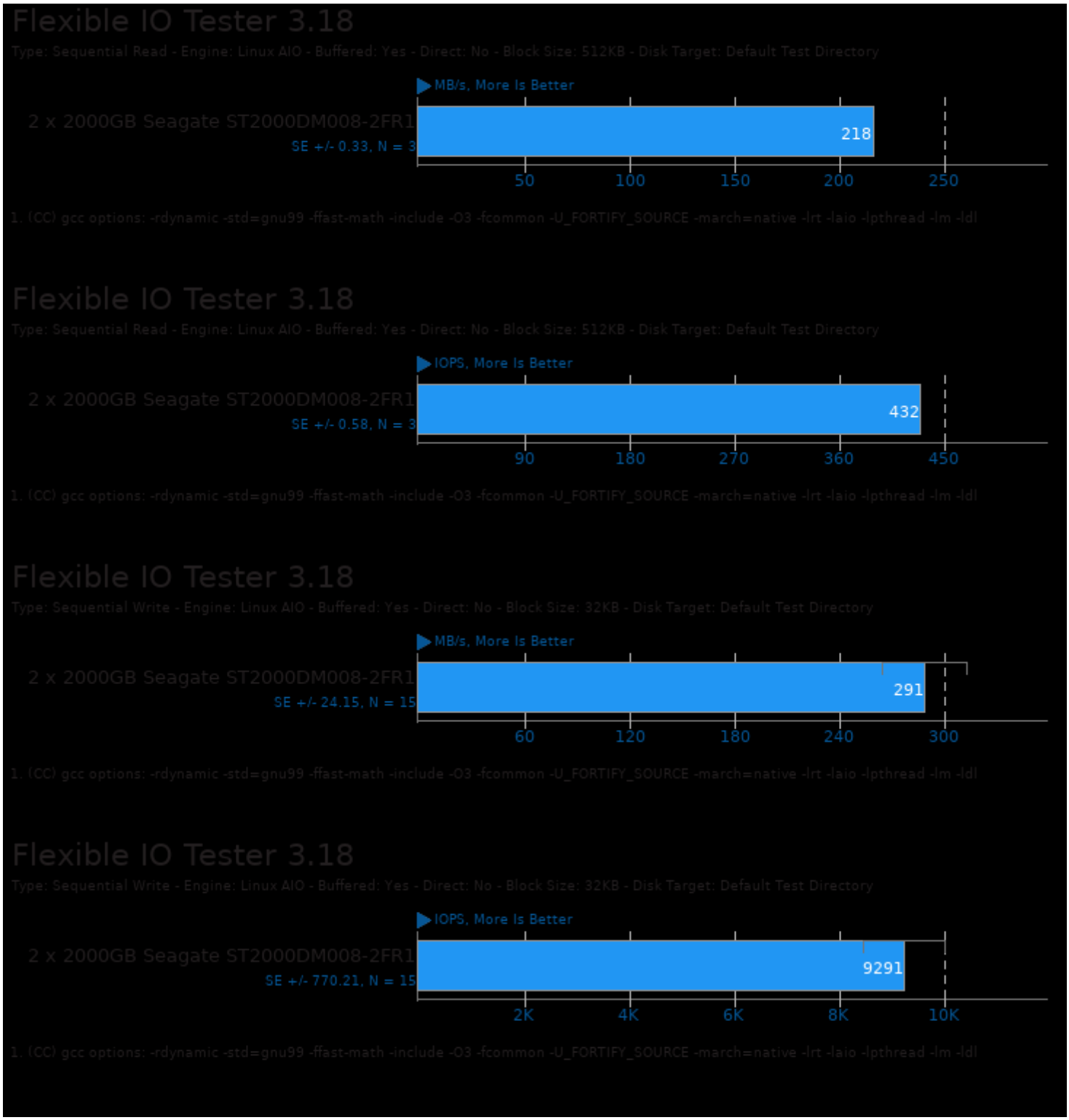
disk-fio


Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 16.43, N = 15
279
60
120
180
240
300
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 8.23, N = 15
136
30
60
90
120
150
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 3.18, N = 3
190
40
80
120
160
200
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 384.42, N = 3
24233
5K
10K
15K
20K
25K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

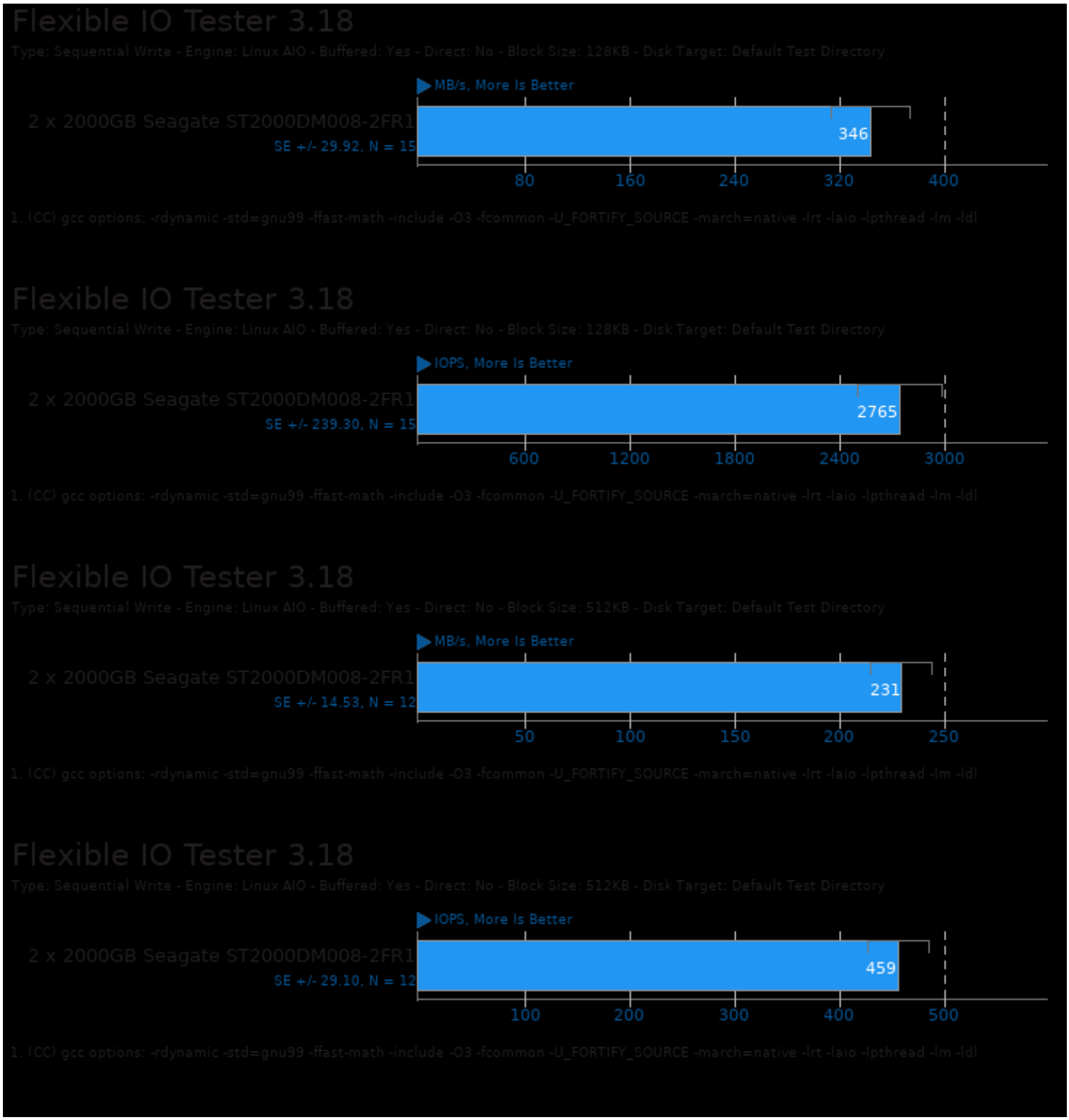
disk-fio


Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 3.88, N = 15
236
50
100
150
200
250
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 0.49, N = 15
26
6
12
18
24
30
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 128KB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
216
50
100
150
200
250
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 128KB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 2.00, N = 3
1723
400
800
1200
1600
2000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

disk-fio


Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 0.33, N = 3
218
50
100
150
200
250
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 0.58, N = 3
432
90
180
270
360
450
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 32KB - Disk Target: Default Test Directory
MB/s, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 24.15, N = 15
291
60
120
180
240
300
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Linux AIO - Buffered: Yes - Direct: No - Block Size: 32KB - Disk Target: Default Test Directory
IOPS, More Is Better
2 x 2000GB Seagate ST2000DM008-2FR1
SE +/- 770.21, N = 15
9291
2K
4K
6K
8K
10K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lpthread -lm -ldl

disk-fio



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 05:57.