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Btrfs LUKS HDD benchmarking under Debian Testing.

Btrfs + LUKS HDD benchmarking under Debian Testing.

Automated Executive Summary

ST1000DM003-1CH162: M Dup, D Single had the most wins, coming in first place for 83% of the tests.

Based on the geometric mean of all complete results, the fastest (ST1000DM003-1CH162: M Dup, D Single) was 1.459x the speed of the slowest (WDC WD10EADS-00L5B1: M Dup, D Single). WDC WD10PURX-64E5EY0: M Dup, D Single was 0.922x the speed of ST1000DM003-1CH162: M Dup, D Single and WDC WD10EADS-00L5B1: M Dup, D Single was 0.744x the speed of WDC WD10PURX-64E5EY0: M Dup, D Single.

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

Flexible IO Tester (Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory) at 2.269x
Flexible IO Tester (Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory) at 2.254x
Flexible IO Tester (Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory) at 1.978x
Flexible IO Tester (Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory) at 1.944x

Flexible IO Tester (Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory) at 1.897x
Flexible IO Tester (Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory) at 1.89x
Flexible IO Tester (Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory) at 1.612x
Flexible IO Tester (Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory) at 1.608x
Flexible IO Tester (Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory) at 1.546x
Flexible IO Tester (Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory) at 1.537x.

Test Systems:

ST1000DM003-1CH162: M Dup, D Single

WDC WD10PURX-64E5EY0: M Dup, D Single

WDC WD10EADS-00L5B1: M Dup, D Single

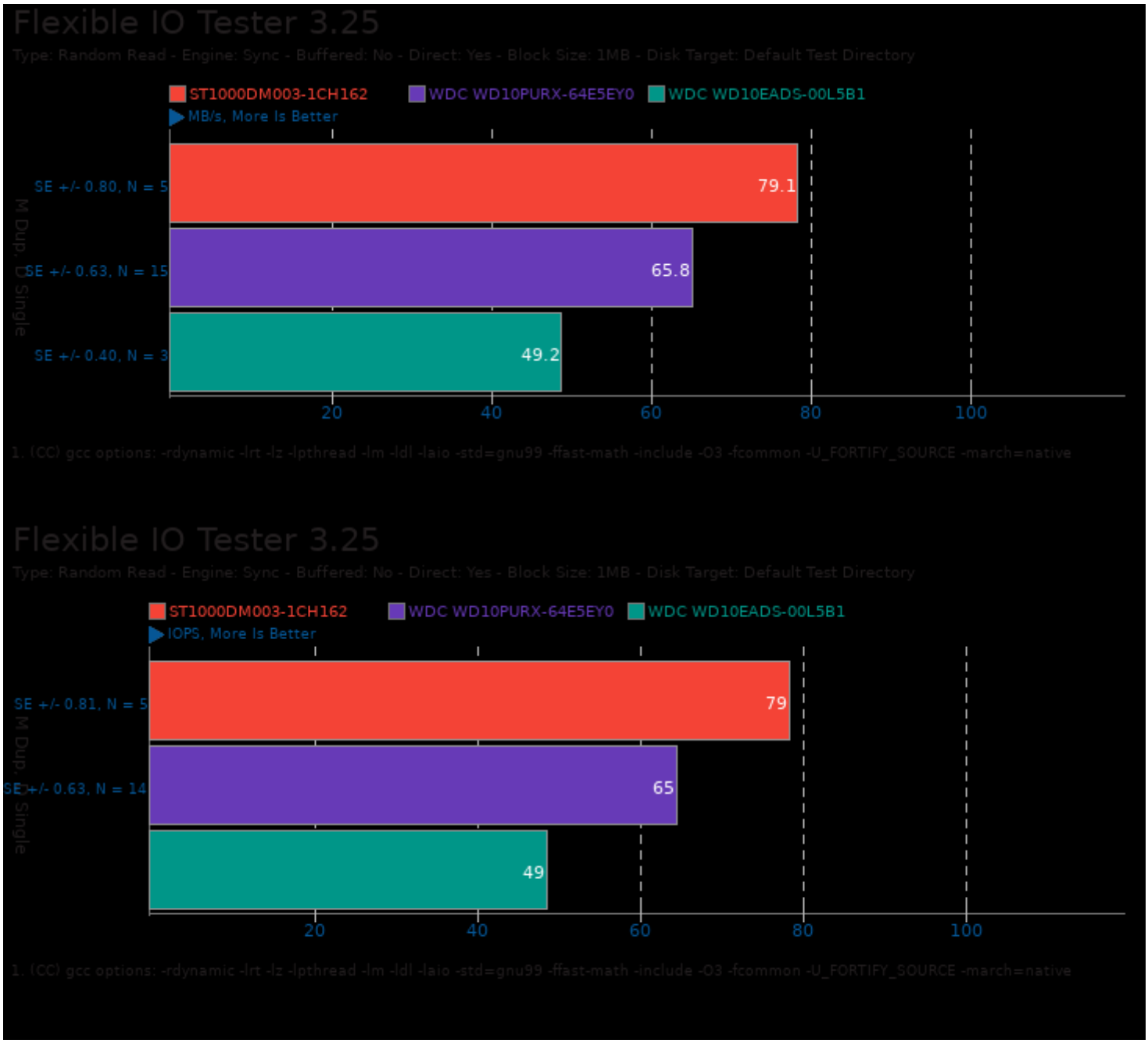
Processor: Intel Xeon E5-2697 v2 @ 3.50GHz (12 Cores / 24 Threads), Motherboard: HP 1589 (J61 v03.96 BIOS), Chipset: Intel Xeon E7 v2/Xeon, Memory: 64GB, Disk: 512GB Sabrent + 3001GB Western Digital WD30PURX-64P + 14001GB TOSHIBA MG07ACA1 + 8002GB Seagate ST8000NM0055-1RM + 1000GB Western Digital WD10EADS-00L + 3001GB Western Digital WD30EURS-73T + 2 x 4001GB Western Digital WD40PURZ-85T + 1000GB Seagate ST1000DM003-1CH1 + 1000GB Western Digital WD10PURX-64E, Graphics: NVIDIA Quadro K2000 1GB, Audio: Realtek ALC262, Monitor: HP ZR2330w + SAMSUNG, Network: Intel 82579LM + Qualcomm Atheros AR93xx

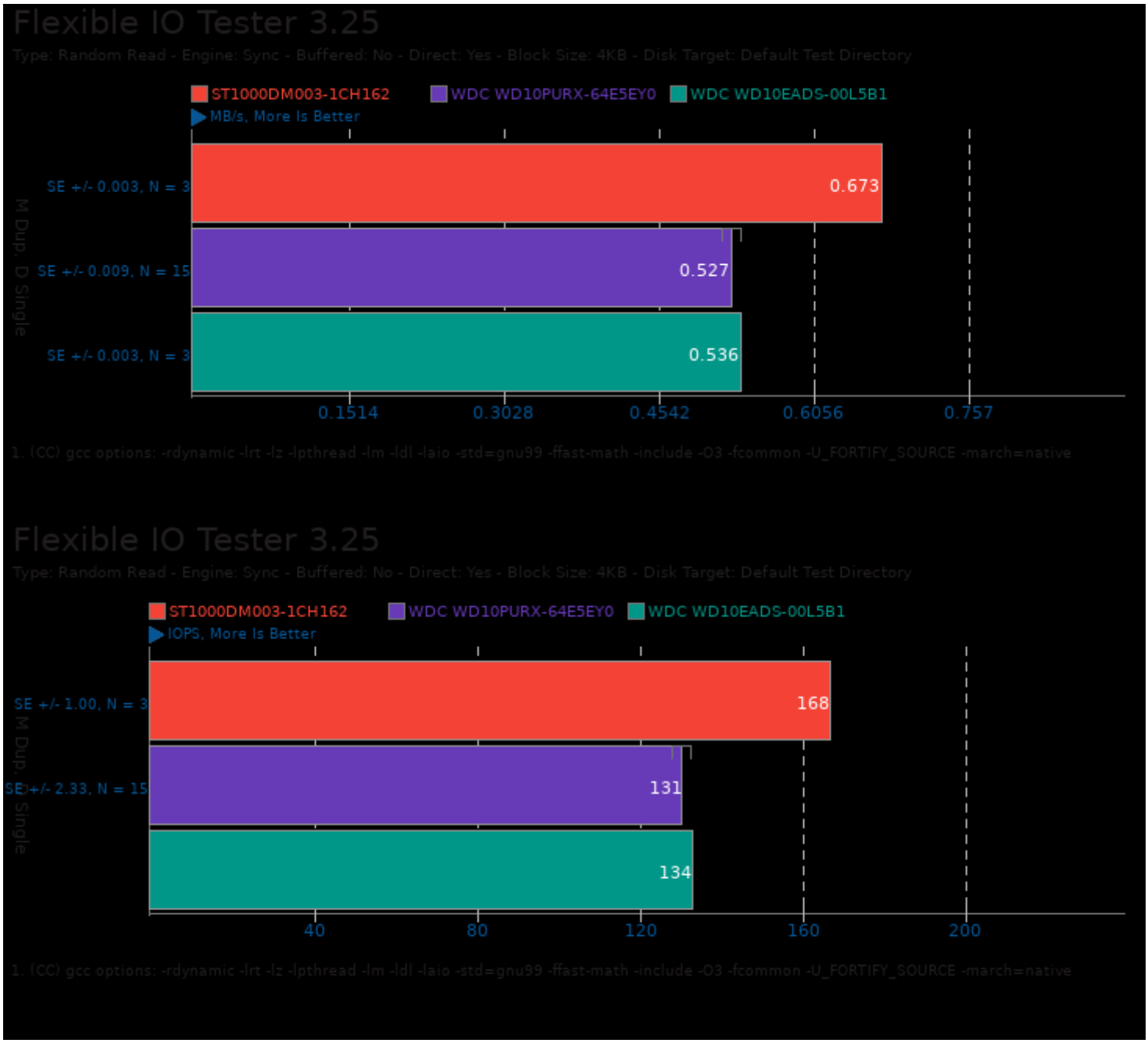
OS: Debian testing, Kernel: 5.10.0-5-amd64 (x86_64), Desktop: KDE Plasma 5.20.5, Display Server: X Server 1.20.10, Display Driver: nouveau, OpenGL: 3.3 Mesa 20.3.4 (LLVM 11.0.1), Vulkan: 1.0.2, Compiler: GCC 10.2.1 20210110, File-System: btrfs, Screen Resolution: 3840x1080

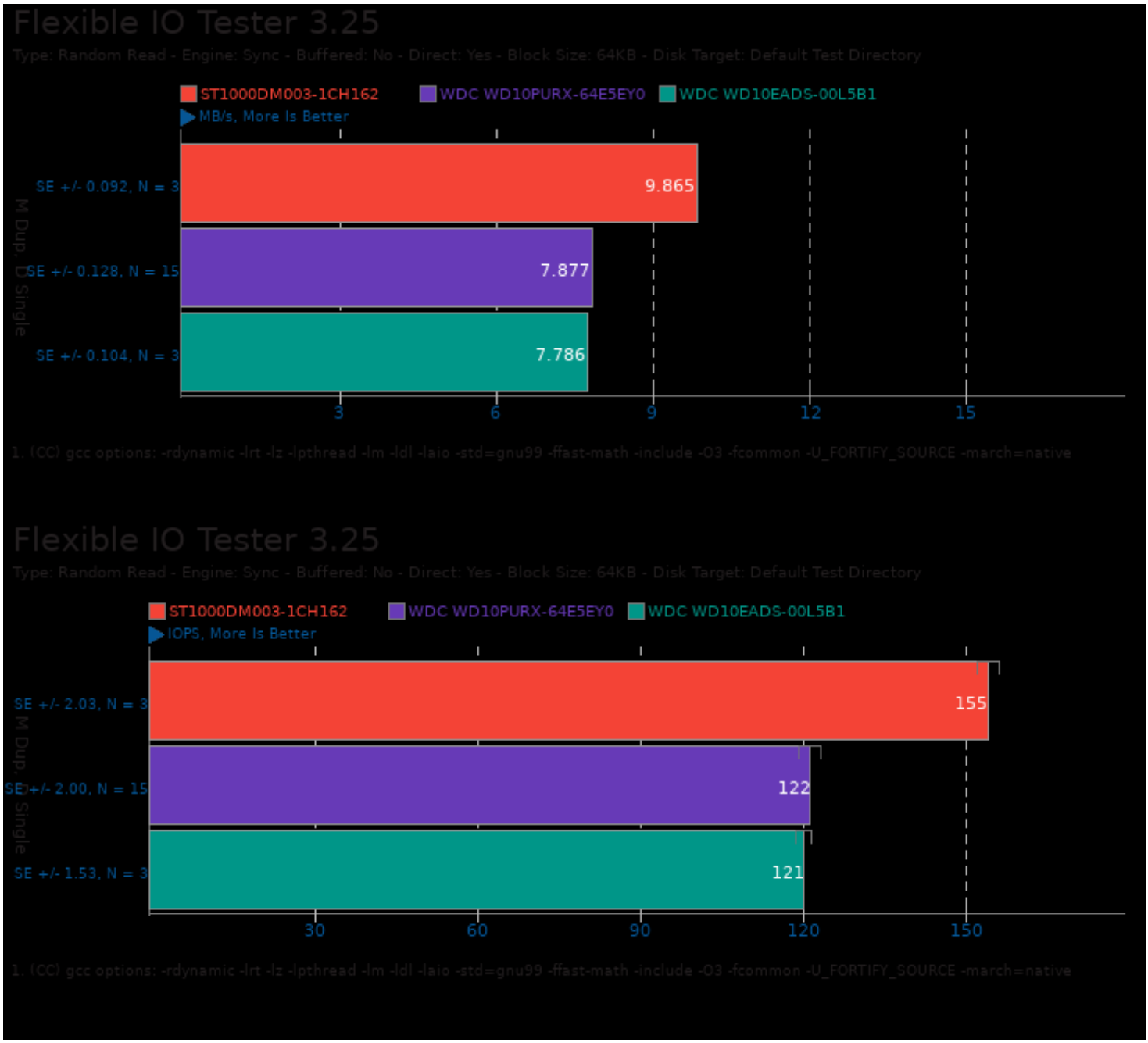
Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-Km9U7s/gcc-10-10.2.1/debian/tmp-gcn/usr, hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Disk Notes: NONE / relatime,rw,space_cache,subvol=/,subvolid=5 / Block Size: 4096
Processor Notes: Scaling Governor: intel_cpufreq schedutil - CPU Microcode: 0x42e
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

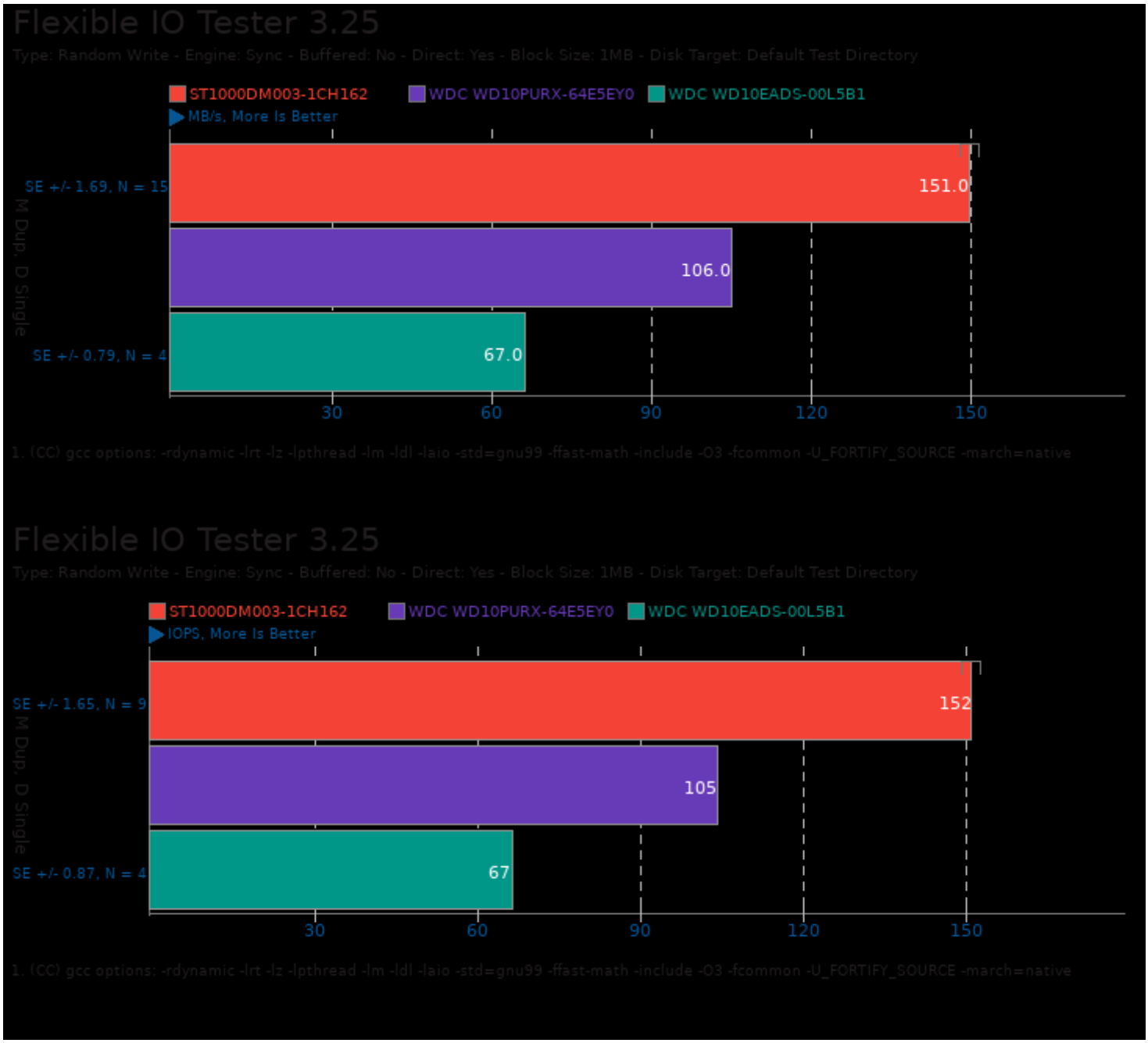
	ST1000DM003-1CH162: M Dup, D Single	WDC WD10PURX-64E5EY0: M Dup, D Single	WDC WD10EADS-00L5B1: M Dup, D Single
Flexible IO Tester - Rand Read - Sync - No - Yes - 1MB (MB/s)	**79.1**	65.8	**49.2**
Normalized	100%	83.19%	62.2%
Standard Deviation	2.3%	3.7%	1.4%
Flexible IO Tester - Rand Read - Sync - No - Yes - 1MB (IOPS)	**79**	65	**49**
Normalized	100%	82.28%	62.03%
Standard Deviation	2.3%	3.6%	
Flexible IO Tester - Rand Read - Sync - No - Yes - 4KB (MB/s)	**0.673**	**0.527**	0.536
Normalized	100%	78.31%	79.64%
Standard Deviation	0.9%	6.8%	1.1%
Flexible IO Tester - Rand Read - Sync - No - Yes - 4KB (IOPS)	**168**	**131**	134
Normalized	100%	77.98%	79.76%
Standard Deviation	1%	6.9%	
Flexible IO Tester - Rand Read - Sync - No - Yes - 64KB (MB/s)	**9.865**	7.877	**7.786**
Normalized	100%	79.85%	78.93%
Standard Deviation	1.6%	6.3%	2.3%
Flexible IO Tester - Rand Read - Sync - No - Yes - 64KB (IOPS)	**155**	122	**121**
Normalized	100%	78.71%	78.06%
Standard Deviation	2.3%	6.3%	2.2%
Flexible IO Tester - Rand Write - Sync - No - Yes - 1MB (MB/s)	**151**	106	**67.0**
Normalized	100%	70.2%	44.37%
Standard Deviation	4.3%		2.4%
Flexible IO Tester - Rand Write - Sync - No - Yes - 1MB (IOPS)	**152**	105	**67**
Normalized	100%	69.08%	44.08%
Standard Deviation	3.2%		2.6%
Flexible IO Tester - Rand Write - Sync - No - Yes - 4KB (MB/s)	1.373	**1.895**	**1.253**
Normalized	72.45%	100%	66.12%
Standard Deviation	1.5%	4.8%	2.6%
Flexible IO Tester - Rand Write - Sync - No - Yes - 4KB (IOPS)	343	**473**	**313**
Normalized	72.52%	100%	66.17%
Standard Deviation	1.5%	4.8%	2.6%
Flexible IO Tester - Rand Write - Sync - No - Yes - 64KB (MB/s)	19.8	**25.2**	**16.4**
Normalized	78.57%	100%	65.08%
Standard Deviation	2%	4.6%	2.5%
Flexible IO Tester - Rand Write - Sync - No - Yes - 64KB (IOPS)	316	**405**	**262**
Normalized	78.02%	100%	64.69%
Standard Deviation	2.1%	3.9%	2.4%

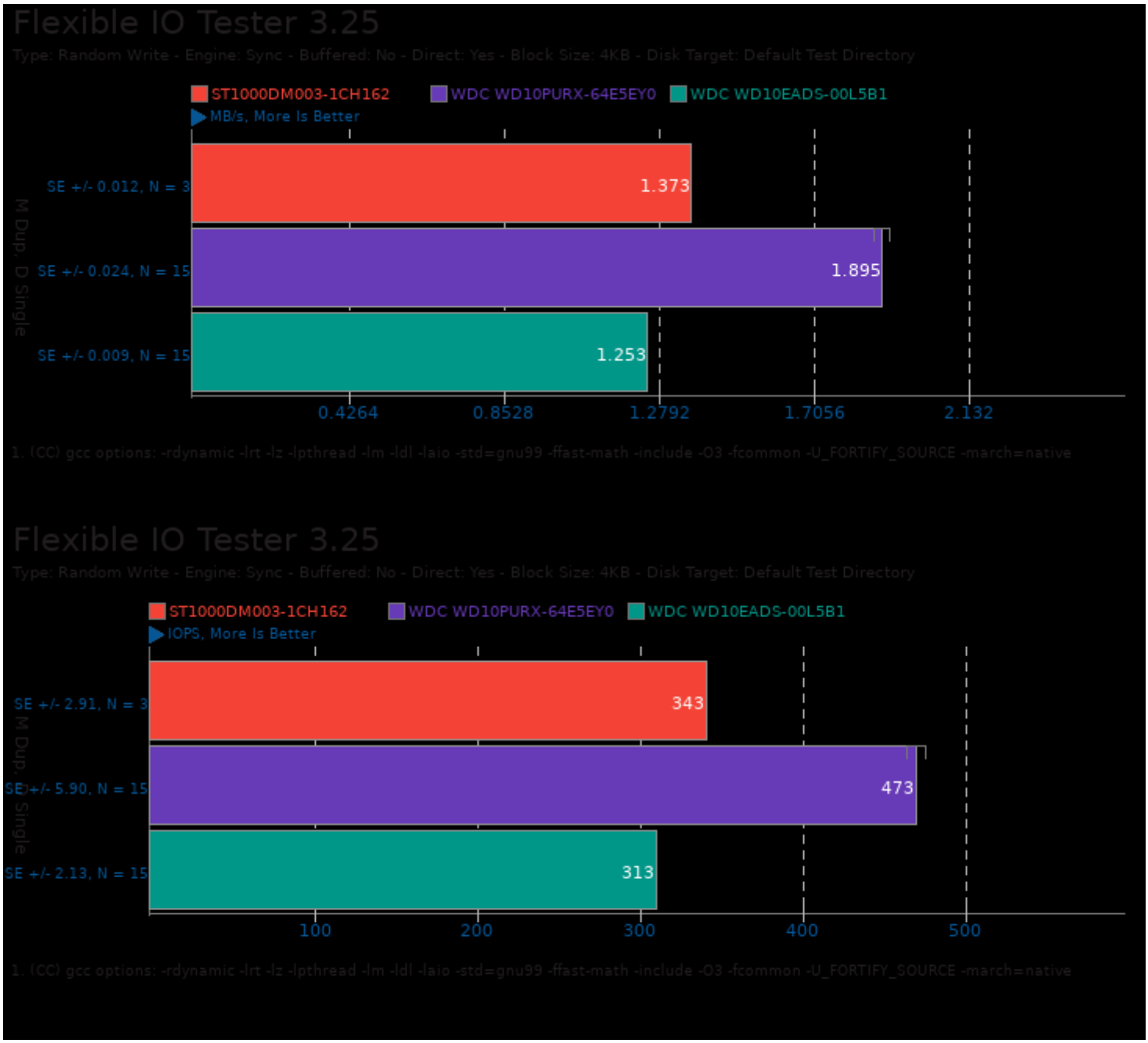
Flexible IO Tester - Seq Read - Sync - No - Yes - 1MB (MB/s)	**177**	153	**89.5**
Normalized	100%	86.44%	50.56%
Standard Deviation	3.4%	1%	0.6%
Flexible IO Tester - Seq Read - Sync - No - Yes - 1MB (IOPS)	**173**	153	**89**
Normalized	100%	88.44%	51.45%
Standard Deviation	2.6%	1.4%	0.6%
Flexible IO Tester - Seq Read - Sync - No - Yes - 4KB (MB/s)	**51.3**	48.1	**42.0**
Normalized	100%	93.76%	81.87%
Standard Deviation	2.4%	2.2%	1.6%
Flexible IO Tester - Seq Read - Sync - No - Yes - 4KB (IOPS)	**13133**	12400	**10467**
Normalized	100%	94.42%	79.7%
Standard Deviation	2.3%	1.4%	3.9%
Flexible IO Tester - Seq Read - Sync - No - Yes - 64KB (MB/s)	**134**	133	**89.3**
Normalized	100%	99.25%	66.64%
Standard Deviation		2.4%	0.8%
Flexible IO Tester - Seq Read - Sync - No - Yes - 64KB (IOPS)	**2145**	2130	**1428**
Normalized	100%	99.3%	66.57%
Standard Deviation	0.8%	2.3%	0.8%
Flexible IO Tester - Seq Write - Sync - No - Yes - 1MB (MB/s)	**165**	144	**87.3**
Normalized	100%	87.27%	52.91%
Standard Deviation	1.6%	1.8%	1.7%
Flexible IO Tester - Seq Write - Sync - No - Yes - 1MB (IOPS)	**165**	145	**87**
Normalized	100%	87.88%	52.73%
Standard Deviation	1.7%		2.5%
Flexible IO Tester - Seq Write - Sync - No - Yes - 4KB (MB/s)	**41.1**	34.4	**32.7**
Normalized	100%	83.7%	79.56%
Standard Deviation	0.7%	2.4%	0.6%
Flexible IO Tester - Seq Write - Sync - No - Yes - 4KB (IOPS)	**10500**	8802	**8372**
Normalized	100%	83.83%	79.73%
Standard Deviation	1%	2.4%	0.6%
Flexible IO Tester - Seq Write - Sync - No - Yes - 64KB (MB/s)	**114.2**	114	**82.0**
Normalized	100%	99.82%	71.8%
Standard Deviation	15.5%	1.8%	3.3%
Flexible IO Tester - Seq Write - Sync - No - Yes - 64KB (IOPS)	**1828**	1817	**1312**
Normalized	100%	99.4%	71.77%
Standard Deviation	15.5%	1.8%	3.4%

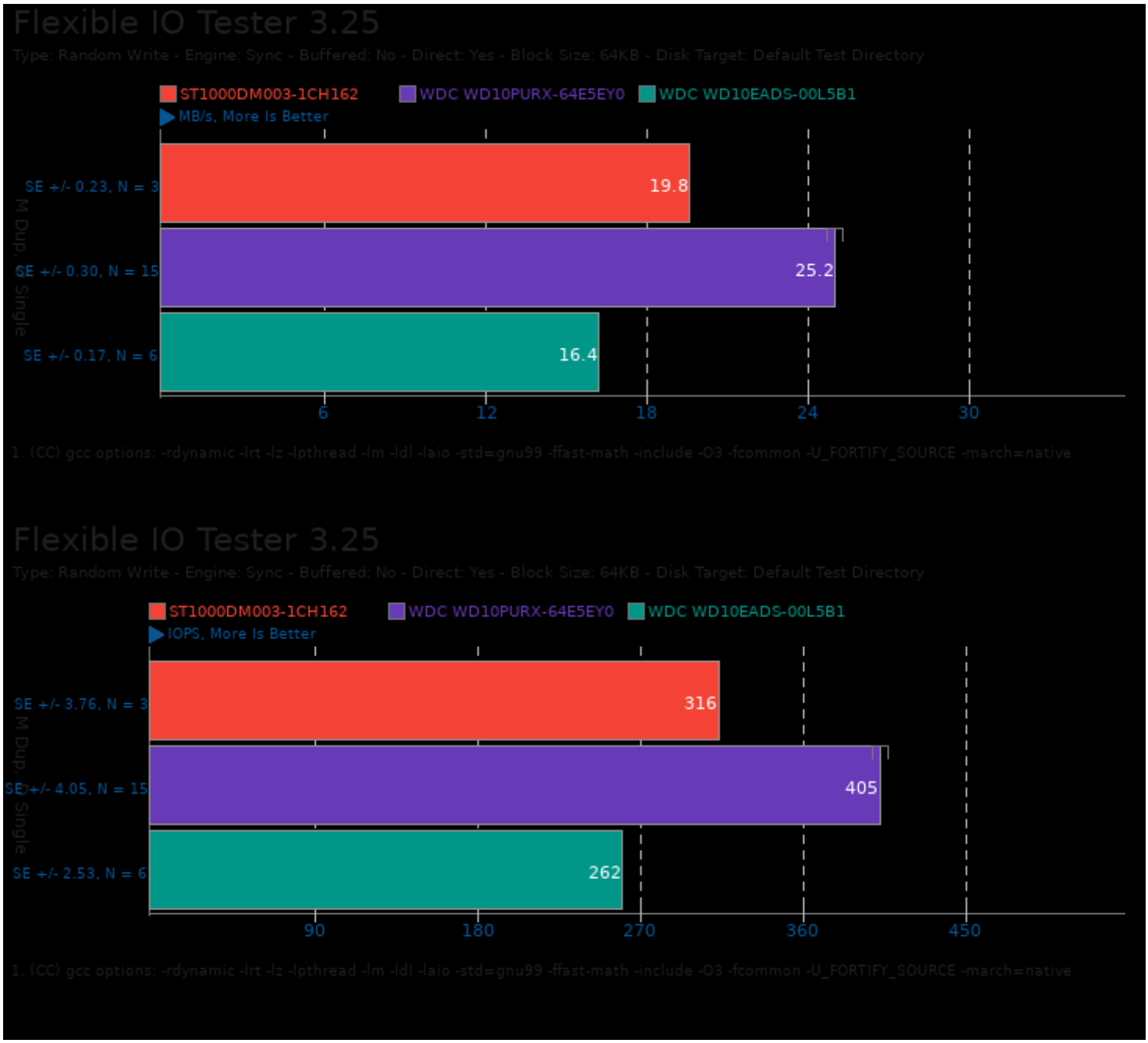

Flexible IO Tester 3.25
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
MB/s, More Is Better
SE +/- 0.80, N = 5
SE +/- 0.63, N = 15
SE +/- 0.40, N = 3
79.1
65.8
49.2
20
40
60
80
100
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
IOPS, More Is Better
SE +/- 0.81, N = 5
SE +/- 0.63, N = 14
79
65
49
20
40
60
80
100
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

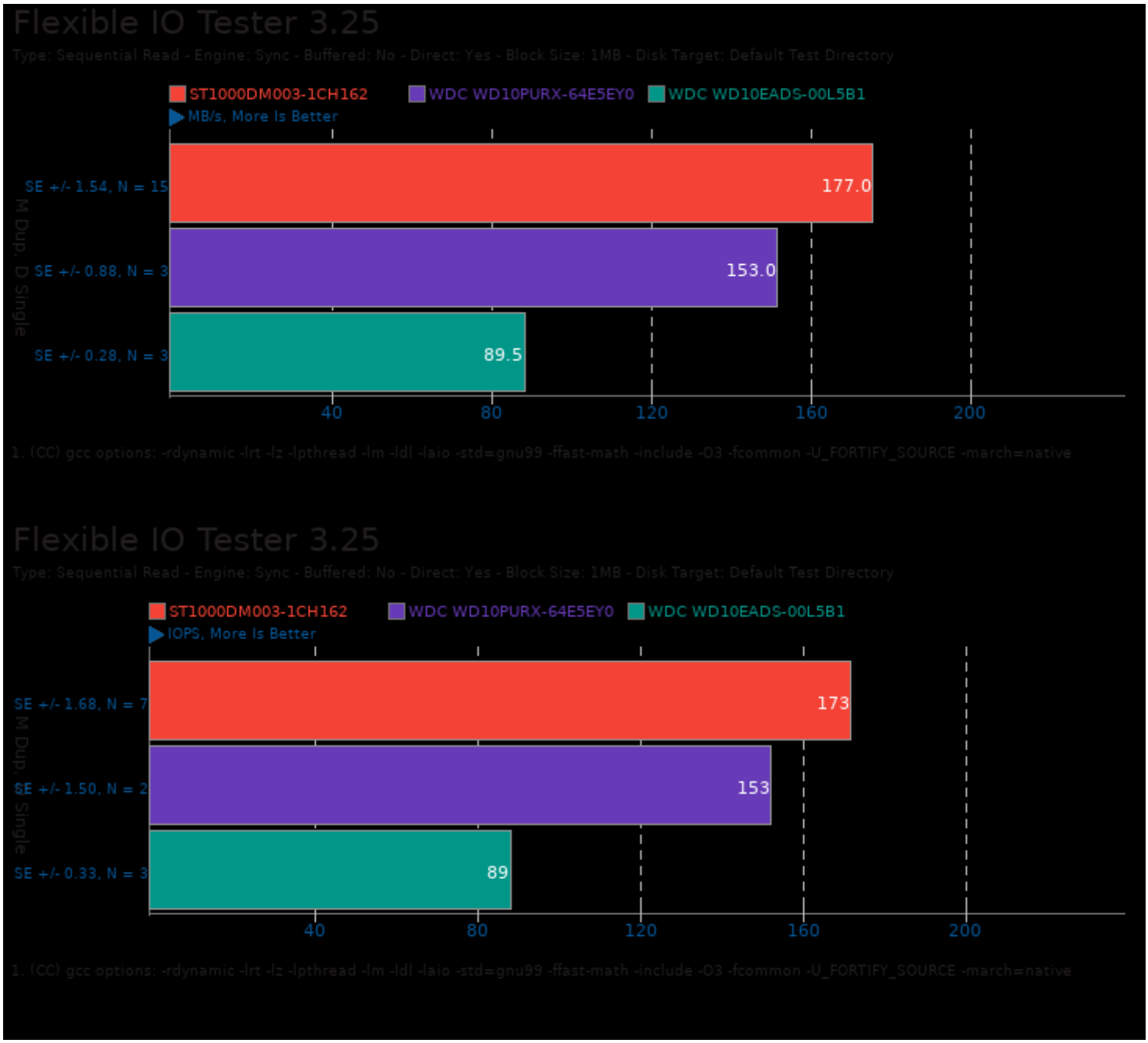

Flexible IO Tester 3.25
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
MB/s, More Is Better
SE +/- 0.003, N = 3
SE +/- 0.009, N = 15
SE +/- 0.003, N = 3
0.673
0.527
0.536
0.1514
0.3028
0.4542
0.6056
0.757
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
IOPS, More Is Better
SE +/- 1.00, N = 3
SE +/- 2.33, N = 15
168
131
134
40
80
120
160
200
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

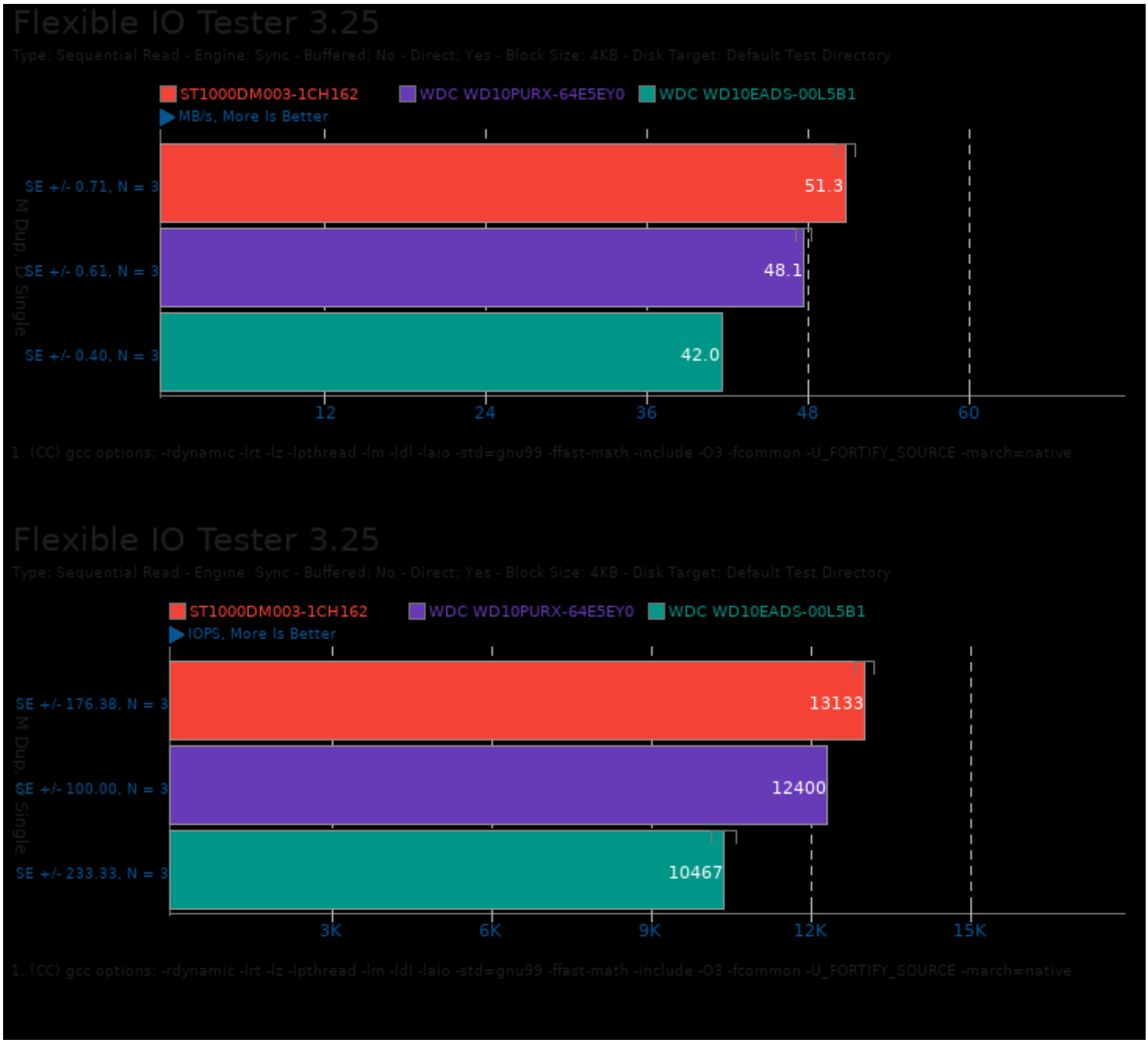

Flexible IO Tester 3.25
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
MB/s, More Is Better
SE +/- 0.092, N = 3
9.865
SE +/- 0.128, N = 15
7.877
SE +/- 0.104, N = 3
7.786
3
6
9
12
15
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
IOPS, More Is Better
SE +/- 2.03, N = 3
155
SE +/- 2.00, N = 15
122
SE +/- 1.53, N = 3
121
30
60
90
120
150
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

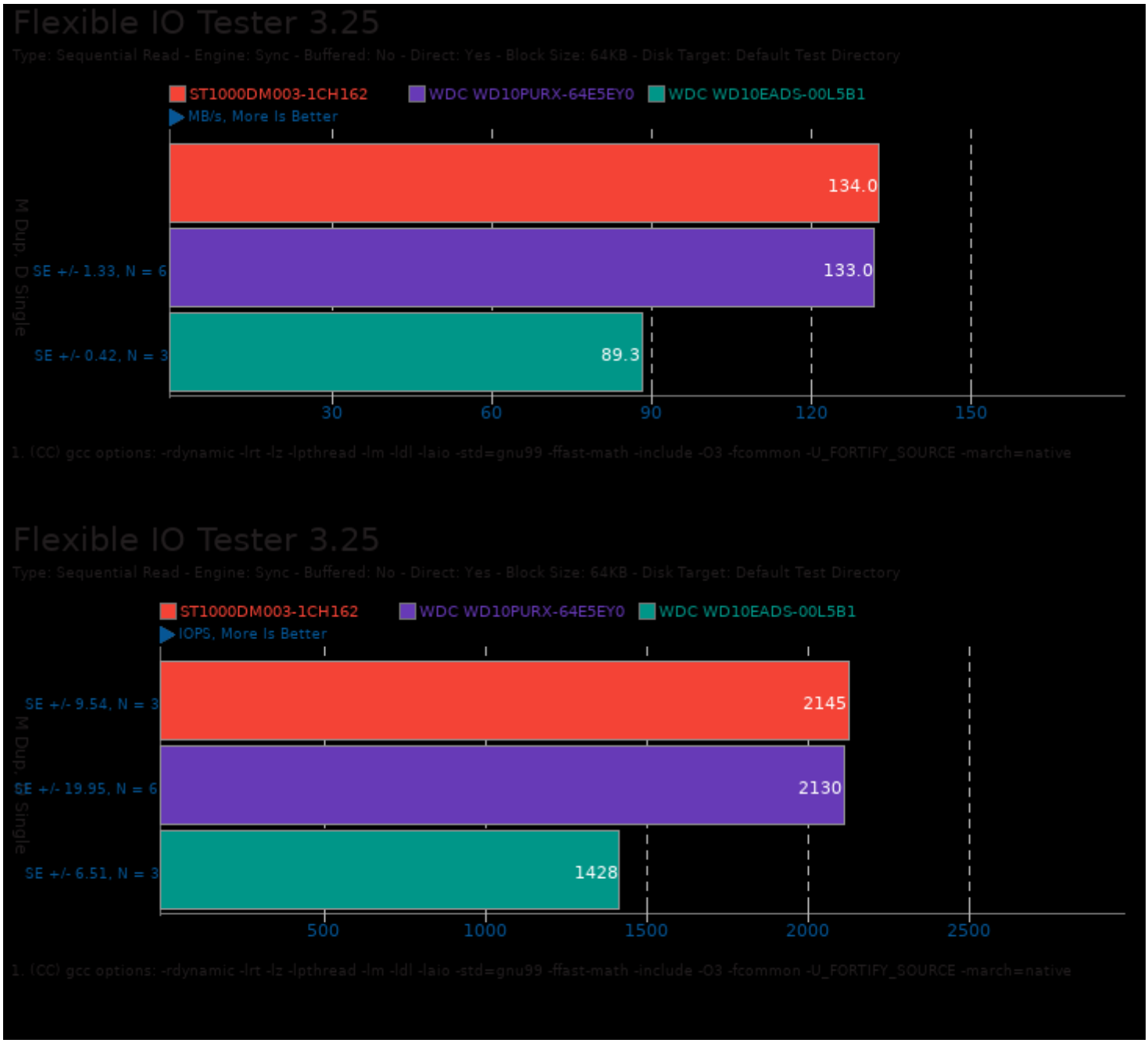

Flexible IO Tester 3.25
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
MB/s, More Is Better
SE +/- 1.69, N = 15
151.0
106.0
SE +/- 0.79, N = 4
67.0
30
60
90
120
150
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
IOPS, More Is Better
SE +/- 1.65, N = 9
152
105
SE +/- 0.87, N = 4
67
30
60
90
120
150
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

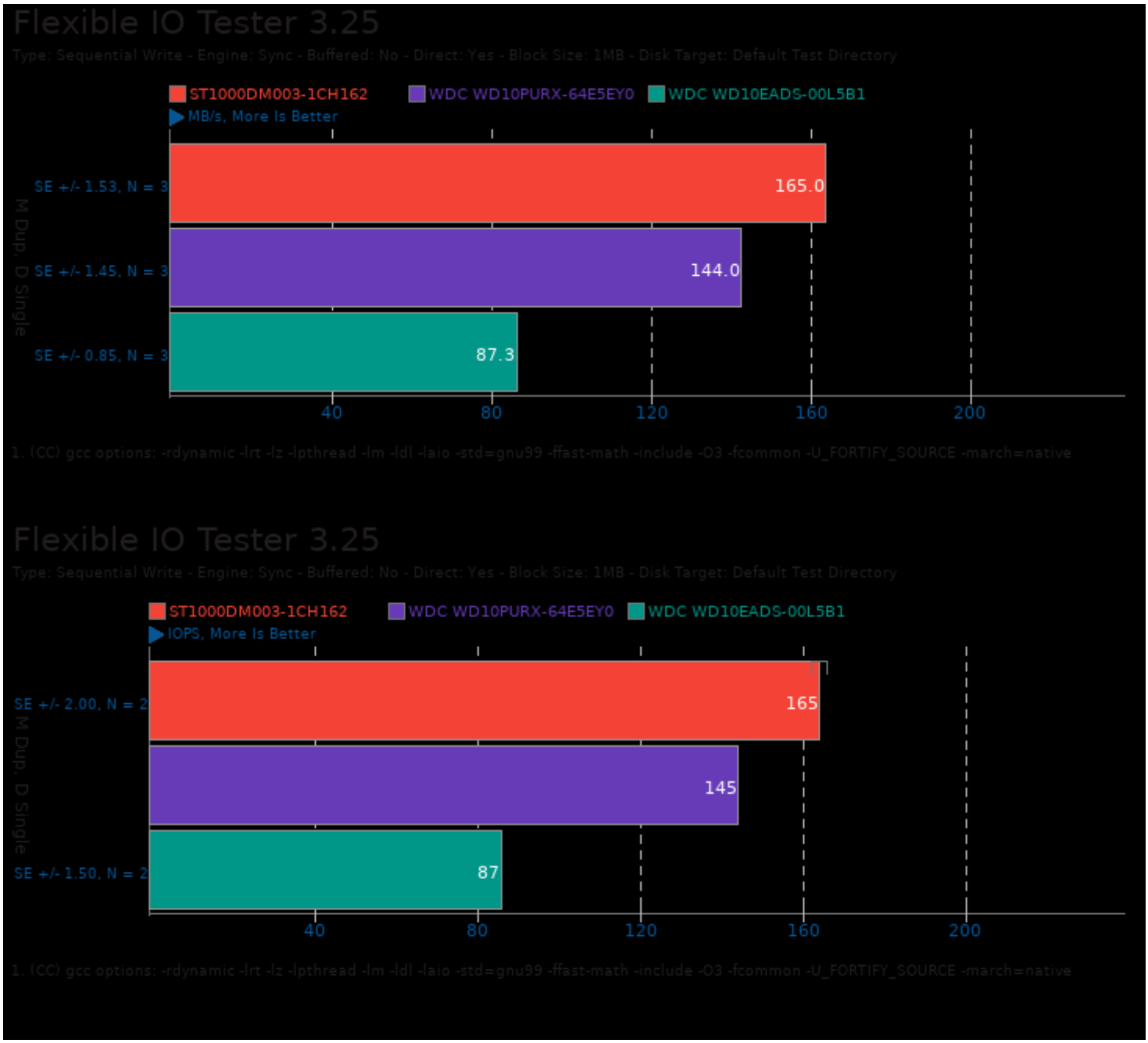

Flexible IO Tester 3.25
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
MB/s, More Is Better
SE +/- 0.012, N = 3
SE +/- 0.024, N = 15
SE +/- 0.009, N = 15
1.373
1.895
1.253
0.4264
0.8528
1.2792
1.7056
2.132
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
IOPS, More Is Better
SE +/- 2.91, N = 3
SE +/- 5.90, N = 15
SE +/- 2.13, N = 15
343
473
313
100
200
300
400
500
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

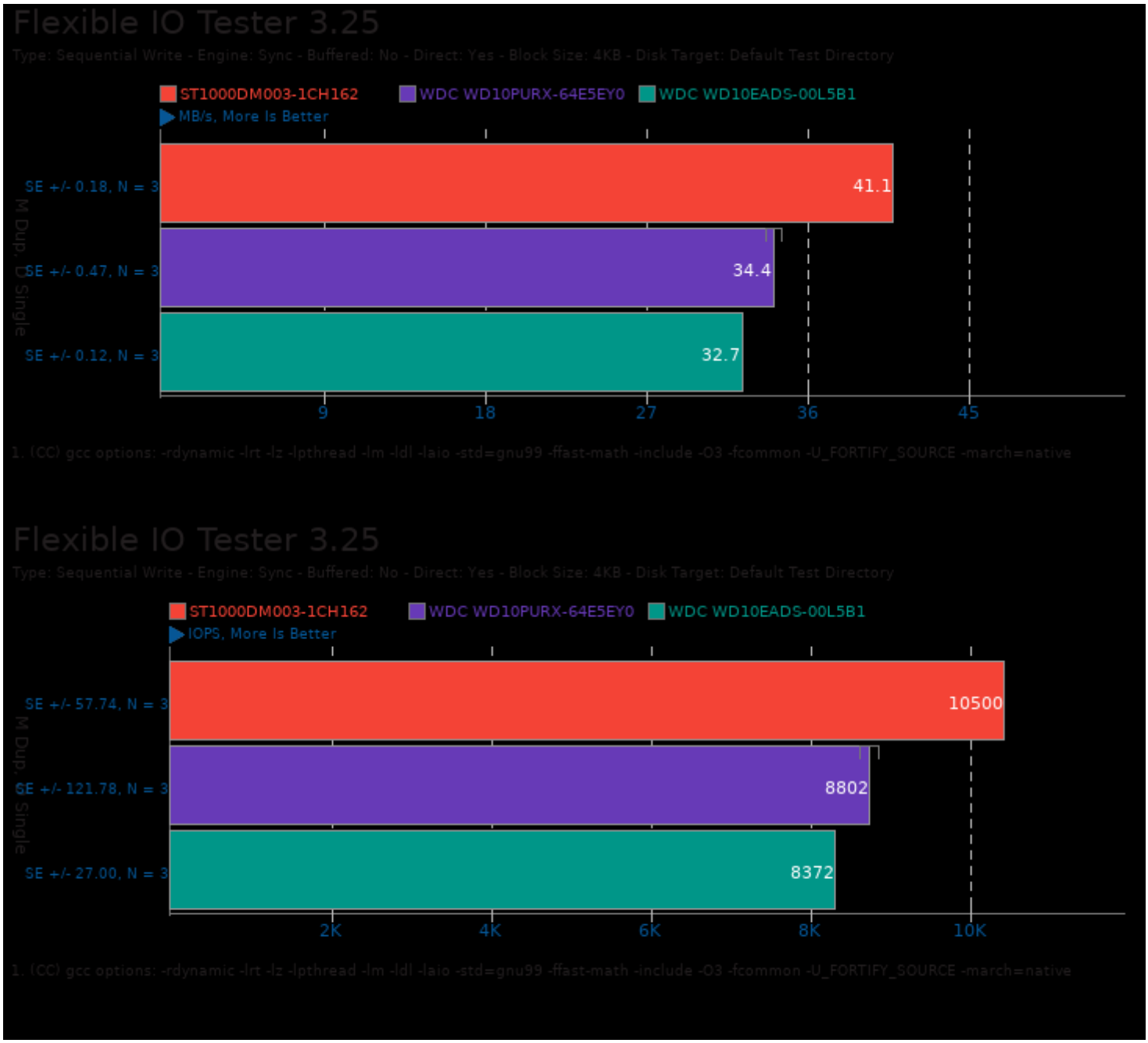

Flexible IO Tester 3.25
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
MB/s, More Is Better
SE +/- 0.23, N = 3
GE +/- 0.30, N = 15
SE +/- 0.17, N = 6
M Dup, Single
19.8
25.2
16.4
6
12
18
24
30
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
IOPS, More Is Better
SE +/- 3.76, N = 3
SE +/- 4.05, N = 15
SE +/- 2.53, N = 6
M Dup, Single
316
405
262
90
180
270
360
450
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

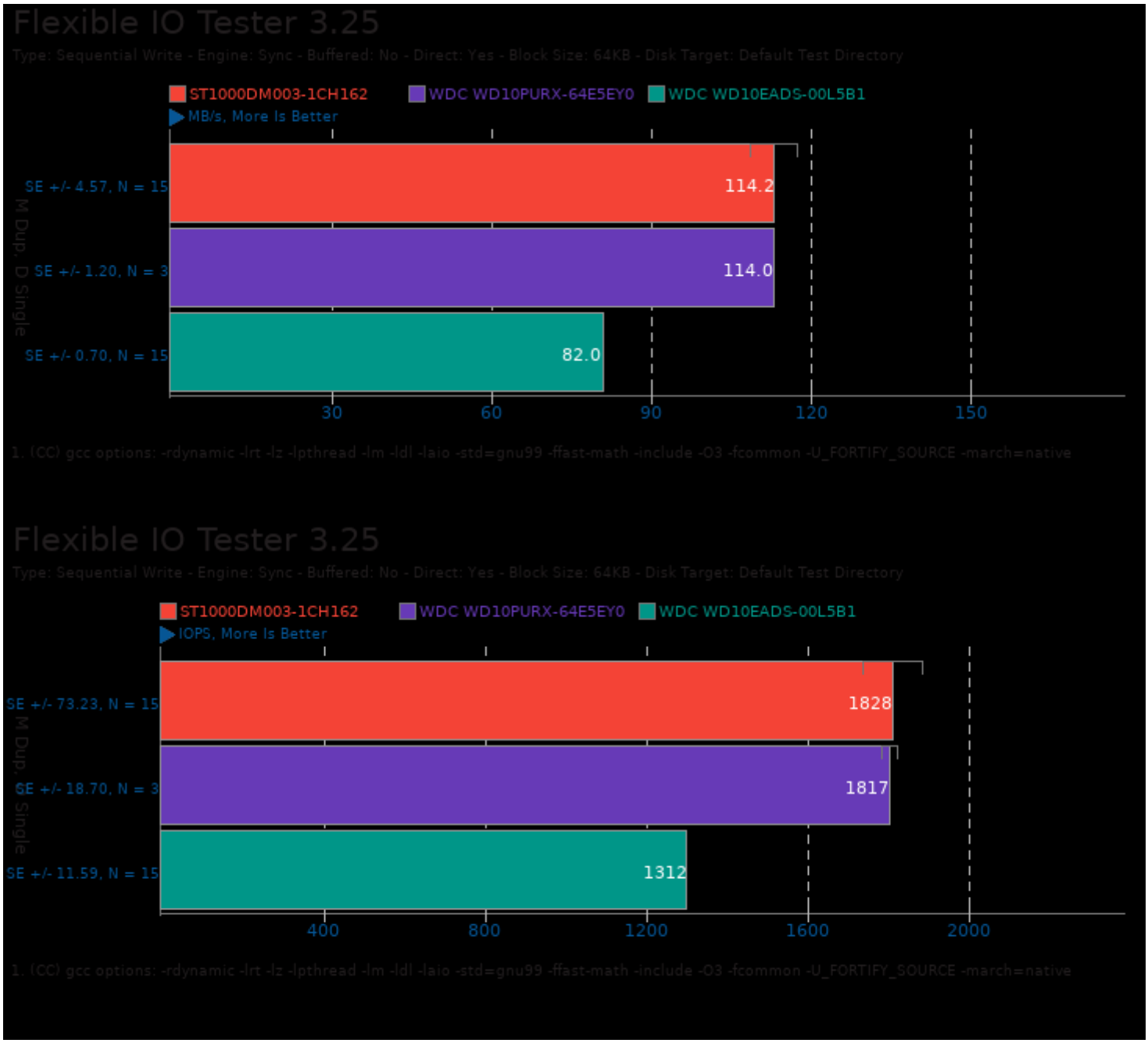

Flexible IO Tester 3.25
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
MB/s, More Is Better
SE +/- 1.54, N = 15
177.0
SE +/- 0.88, N = 3
153.0
SE +/- 0.28, N = 3
89.5
40
80
120
160
200
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
IOPS, More Is Better
SE +/- 1.68, N = 7
173
SE +/- 1.50, N = 2
153
SE +/- 0.33, N = 3
89
40
80
120
160
200
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native


Flexible IO Tester 3.25
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
MB/s, More Is Better
SE +/- 0.71, N = 3
SE +/- 0.61, N = 3
SE +/- 0.40, N = 3
51.3
48.1
42.0
12
24
36
48
60
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
IOPS, More Is Better
SE +/- 176.38, N = 3
SE +/- 100.00, N = 3
SE +/- 233.33, N = 3
13133
12400
10467
3K
6K
9K
12K
15K
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native


Flexible IO Tester 3.25
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
MB/s, More Is Better
134.0
133.0
89.3
SE +/- 1.33, N = 6
SE +/- 0.42, N = 3
M Dup, D Single
30
60
90
120
150
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
IOPS, More Is Better
2145
2130
1428
SE +/- 9.54, N = 3
SE +/- 19.95, N = 6
SE +/- 6.51, N = 3
M Dup, D Single
500
1000
1500
2000
2500
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native


Flexible IO Tester 3.25
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
MB/s, More Is Better
SE +/- 1.53, N = 3
SE +/- 1.45, N = 3
SE +/- 0.85, N = 3
165.0
144.0
87.3
40
80
120
160
200
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
IOPS, More Is Better
SE +/- 2.00, N = 2
SE +/- 1.50, N = 2
165
145
87
40
80
120
160
200
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native


Flexible IO Tester 3.25
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
MB/s, More Is Better
SE +/- 0.18, N = 3
41.1
SE +/- 0.47, N = 3
34.4
SE +/- 0.12, N = 3
32.7
M Dup, D Single
9
18
27
36
45
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.25
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
ST1000DM003-1CH162
WDC WD10PURX-64E5EY0
WDC WD10EADS-00L5B1
IOPS, More Is Better
SE +/- 57.74, N = 3
10500
SE +/- 121.78, N = 3
8802
SE +/- 27.00, N = 3
8372
M Dup, D Single
2K
4K
6K
8K
10K
1. (CC) gcc options: -rdynamic -lrt -lz -lpthread -lm -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 09:07.