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Intel Xeon Gold 6238R testing with a Supermicro X11SPL-F v1.02 (3.3 BIOS) and ASPEED on CentOS Linux 8 via the Phoronix Test Suite.

Test Systems:

6 x 32 GB DDR4-2933MT

Processor: Intel Xeon Gold 6238R @ 4.00GHz (28 Cores / 56 Threads), Motherboard: Supermicro X11SPL-F v1.02 (3.3 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 6 x 32 GB DDR4-2933MT/s 36ASF4G72PZ-2G9J3, Disk: 5758GB MR9361-8i, Graphics: ASPEED, Network: 2 x Intel I210

OS: CentOS Linux 8, Kernel: 4.18.0-193.19.1.el8_2.x86_64 (x86_64), Compiler: GCC 8.3.1 20191121, File-System: xfs, Screen Resolution: 1024x768

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 --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,sunit=128,swidth=512

Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x5002f01
Security Notes: SELinux + itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Not affected + mds: Not affected + meltdown: Not affected + 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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Mitigation of Clear buffers; SMT vulnerable

	6 x 32 GB DDR4-2933MT
Sysbench - Memory (Events/sec)	17666663
Standard Deviation	0.1%
Sysbench - CPU (Events/sec)	46788
Standard Deviation	0%
perf-bench - Memcpy 1MB (GB/sec)	17.465248
Standard Deviation	3.5%
perf-bench - Memset 1MB (GB/sec)	64.101033
Standard Deviation	0.1%
Flexible IO Tester - Rand Read - Sync - No - Yes - 1MB (IOPS)	1900
Standard Deviation	0.1%
Flexible IO Tester - Rand Read - Sync - No - Yes - 2MB (IOPS)	1273
Standard Deviation	0%
Flexible IO Tester - Rand Read - Sync - No - Yes - 4KB (IOPS)	8710
Standard Deviation	0.5%
Flexible IO Tester - Rand Read - Sync - No - Yes - 4MB (IOPS)	687
Flexible IO Tester - Rand Read - Sync - No - Yes - 8KB (IOPS)	7553
Standard Deviation	0.3%
Flexible IO Tester - Rand Read - Sync - No - Yes - 8MB (IOPS)	395
Flexible IO Tester - Rand Read - Sync - No - Yes - 16KB (IOPS)	6123
Standard Deviation	0.2%
Flexible IO Tester - Rand Read - Sync - No - Yes - 32KB (IOPS)	5327
Standard Deviation	0.9%
Flexible IO Tester - Rand Read - Sync - No - Yes - 64KB (IOPS)	4148
Standard Deviation	1.1%
Flexible IO Tester - Rand Write - Sync - No - Yes - 1MB (IOPS)	2614
Standard Deviation	0.1%
Flexible IO Tester - Rand Write - Sync - No - Yes - 2MB (IOPS)	1446
Flexible IO Tester - Rand Write - Sync - No - Yes - 4KB (IOPS)	28567
Standard Deviation	0.2%
Flexible IO Tester - Rand Write - Sync - No - Yes - 4MB (IOPS)	739
Standard Deviation	0.1%
Flexible IO Tester - Rand Write - Sync - No - Yes - 8KB (IOPS)	30333
Standard Deviation	0.2%
Flexible IO Tester - Rand Write - Sync - No - Yes - 8MB (IOPS)	369
Flexible IO Tester - Rand Read - Sync - No - Yes - 128KB (IOPS)	18500
Flexible IO Tester - Rand Read - Sync - No - Yes - 256KB (IOPS)	11800
Standard Deviation	0.8%
Flexible IO Tester - Rand Read - Sync - No - Yes - 512KB (IOPS)	7947
Standard Deviation	0.5%
Flexible IO Tester - Rand Write - Sync - No - Yes - 16KB (IOPS)	28800
Flexible IO Tester - Rand Write - Sync - No - Yes - 32KB (IOPS)	25700
Flexible IO Tester - Rand Write - Sync - No - Yes - 64KB (IOPS)	21267
Standard Deviation	0.3%

Flexible IO Tester - Rand Write - Sync - No - Yes - 128KB (IOPS) 13533

Standard Deviation 1.1%

Flexible IO Tester - Rand Write - Sync - No - Yes - 256KB (IOPS) 7936

Standard Deviation 1.1%

Flexible IO Tester - Rand Write - Sync - No - Yes - 512KB (IOPS) 4667

Standard Deviation 0.9%

Flexible IO Tester - Seq Read - Sync - No - Yes - 1MB (IOPS) 4708

Standard Deviation 0%

Flexible IO Tester - Seq Read - Sync - No - Yes - 2MB (IOPS) 2379

Standard Deviation 0%

Flexible IO Tester - Seq Read - Sync - No - Yes - 4KB (IOPS) 39633

Standard Deviation 0.1%

Flexible IO Tester - Seq Read - Sync - No - Yes - 4MB (IOPS) 1285

Flexible IO Tester - Seq Read - Sync - No - Yes - 8KB (IOPS) 39233

Standard Deviation 0.1%

Flexible IO Tester - Seq Read - Sync - No - Yes - 8MB (IOPS) 675

Flexible IO Tester - Seq Read - Sync - No - Yes - 16KB (IOPS) 36500

Flexible IO Tester - Seq Read - Sync - No - Yes - 32KB (IOPS) 31500

Flexible IO Tester - Seq Read - Sync - No - Yes - 64KB (IOPS) 26300

Flexible IO Tester - Seq Write - Sync - No - Yes - 1MB (IOPS) 2568

Standard Deviation 0%

Flexible IO Tester - Seq Write - Sync - No - Yes - 2MB (IOPS) 1354

Flexible IO Tester - Seq Write - Sync - No - Yes - 4KB (IOPS) 42800

Standard Deviation 0.4%

Flexible IO Tester - Seq Write - Sync - No - Yes - 4MB (IOPS) 667

Flexible IO Tester - Seq Write - Sync - No - Yes - 8KB (IOPS) 40900

Standard Deviation 0.4%

Flexible IO Tester - Seq Write - Sync - No - Yes - 8MB (IOPS) 334

Flexible IO Tester - Seq Read - Sync - No - Yes - 128KB (IOPS) 19200

Standard Deviation 2.7%

Flexible IO Tester - Seq Read - Sync - No - Yes - 256KB (IOPS) 12200

Standard Deviation 2.8%

Flexible IO Tester - Seq Read - Sync - No - Yes - 512KB (IOPS) 8032

Standard Deviation 0.2%

Flexible IO Tester - Seq Write - Sync - No - Yes - 16KB (IOPS) 35967

Standard Deviation 0.2%

Flexible IO Tester - Seq Write - Sync - No - Yes - 32KB (IOPS) 29100

Standard Deviation 0.3%

Flexible IO Tester - Seq Write - Sync - No - Yes - 64KB (IOPS) 21433

Standard Deviation 0.3%

Flexible IO Tester - Seq Write - Sync - No - Yes - 128KB (IOPS) 13567

Standard Deviation 0.9%

Flexible IO Tester - Seq Write - Sync - No - Yes - 256KB (IOPS) 7906

Standard Deviation 1%

Flexible IO Tester - Seq Write - Sync - No - Yes - 512KB (IOPS) 4582

Standard Deviation 0.9%

AIO-Stress - Rand Write (MB/s) 5338

Standard Deviation 1.2%

IOzone - 1MB - 8GB - Read Performance (MB/s) 7630

Standard Deviation 2.3%

IOzone - 2MB - 8GB - Read Performance (MB/s) 7733

Standard Deviation 2.3%

IOzone - 4Kb - 8GB - Read Performance (MB/s)	5316
Standard Deviation	0.6%
IOzone - 1MB - 8GB - Write Performance (MB/s)	1501
Standard Deviation	0.6%
IOzone - 2MB - 8GB - Write Performance (MB/s)	1704
Standard Deviation	1.3%
IOzone - 4Kb - 8GB - Write Performance (MB/s)	70.87
Standard Deviation	0.1%
IOzone - 64Kb - 8GB - Read Performance (MB/s)	8335
Standard Deviation	2.5%
IOzone - 64Kb - 8GB - Write Performance (MB/s)	596.90
Standard Deviation	0.4%
RAMspeed SMP - Add - Integer (MB/s)	32689
Standard Deviation	0.8%
RAMspeed SMP - Copy - Integer (MB/s)	31944
Standard Deviation	1%
RAMspeed SMP - Scale - Integer (MB/s)	30155
Standard Deviation	1.4%
RAMspeed SMP - Triad - Integer (MB/s)	32401
Standard Deviation	2.5%
RAMspeed SMP - Average - Integer (MB/s)	31636
Standard Deviation	1.3%
RAMspeed SMP - Add - Floating Point (MB/s)	32225
Standard Deviation	0.3%
RAMspeed SMP - Copy - Floating Point (MB/s)	31723
Standard Deviation	0.6%
RAMspeed SMP - Scale - Floating Point (MB/s)	30116
Standard Deviation	1%
RAMspeed SMP - Triad - Floating Point (MB/s)	31934
Standard Deviation	0.2%
RAMspeed SMP - Average - Floating Point (MB/s)	31491
Standard Deviation	1%
Flexible IO Tester - Rand Read - Sync - No - Yes - 1MB (MB/s)	1901
Standard Deviation	0.1%
Flexible IO Tester - Rand Read - Sync - No - Yes - 2MB (MB/s)	2547
Standard Deviation	0%
Flexible IO Tester - Rand Read - Sync - No - Yes - 4KB (MB/s)	34.0
Standard Deviation	0.5%
Flexible IO Tester - Rand Read - Sync - No - Yes - 4MB (MB/s)	2750
Flexible IO Tester - Rand Read - Sync - No - Yes - 8KB (MB/s)	58.7
Standard Deviation	1.1%
Flexible IO Tester - Rand Read - Sync - No - Yes - 8MB (MB/s)	3165
Flexible IO Tester - Rand Read - Sync - No - Yes - 16KB (MB/s)	95.7
Standard Deviation	0.3%
Flexible IO Tester - Rand Read - Sync - No - Yes - 32KB (MB/s)	167
Standard Deviation	0.9%
Flexible IO Tester - Rand Read - Sync - No - Yes - 64KB (MB/s)	259
Standard Deviation	1.1%
Flexible IO Tester - Rand Write - Sync - No - Yes - 1MB (MB/s)	2616
Standard Deviation	0.1%
Flexible IO Tester - Rand Write - Sync - No - Yes - 2MB (MB/s)	2894
Flexible IO Tester - Rand Write - Sync - No - Yes - 4KB (MB/s)	112

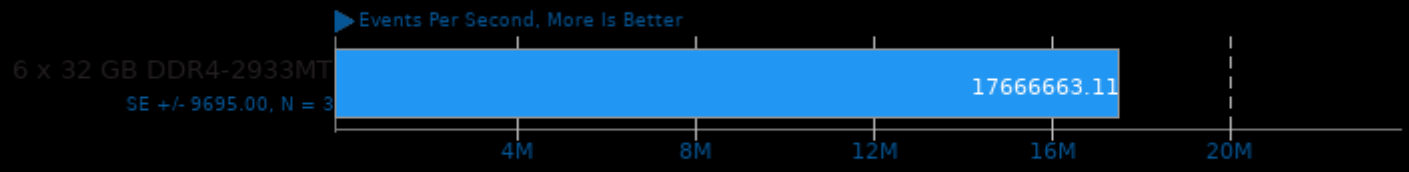
Flexible IO Tester - Rand Write - Sync - No - Yes - 4MB (MB/s)	2956
Standard Deviation	0.1%
Flexible IO Tester - Rand Write - Sync - No - Yes - 8KB (MB/s)	237
Flexible IO Tester - Rand Write - Sync - No - Yes - 8MB (MB/s)	2955
Standard Deviation	0.1%
Flexible IO Tester - Rand Read - Sync - No - Yes - 128KB (MB/s)	2316
Standard Deviation	0%
Flexible IO Tester - Rand Read - Sync - No - Yes - 256KB (MB/s)	2945
Standard Deviation	0.6%
Flexible IO Tester - Rand Read - Sync - No - Yes - 512KB (MB/s)	3973
Standard Deviation	0.5%
Flexible IO Tester - Rand Write - Sync - No - Yes - 16KB (MB/s)	451
Flexible IO Tester - Rand Write - Sync - No - Yes - 32KB (MB/s)	802
Flexible IO Tester - Rand Write - Sync - No - Yes - 64KB (MB/s)	1330
Standard Deviation	0.2%
Flexible IO Tester - Rand Write - Sync - No - Yes - 128KB (MB/s)	1693
Standard Deviation	0.8%
Flexible IO Tester - Rand Write - Sync - No - Yes - 256KB (MB/s)	1984
Standard Deviation	1.1%
Flexible IO Tester - Rand Write - Sync - No - Yes - 512KB (MB/s)	2334
Standard Deviation	0.9%
Flexible IO Tester - Seq Read - Sync - No - Yes - 1MB (MB/s)	4709
Standard Deviation	0%
Flexible IO Tester - Seq Read - Sync - No - Yes - 2MB (MB/s)	4760
Standard Deviation	0%
Flexible IO Tester - Seq Read - Sync - No - Yes - 4KB (MB/s)	155
Flexible IO Tester - Seq Read - Sync - No - Yes - 4MB (MB/s)	5144
Flexible IO Tester - Seq Read - Sync - No - Yes - 8KB (MB/s)	307
Standard Deviation	0.2%
Flexible IO Tester - Seq Read - Sync - No - Yes - 8MB (MB/s)	5407
Standard Deviation	0%
Flexible IO Tester - Seq Read - Sync - No - Yes - 16KB (MB/s)	570
Standard Deviation	0.1%
Flexible IO Tester - Seq Read - Sync - No - Yes - 32KB (MB/s)	984
Flexible IO Tester - Seq Read - Sync - No - Yes - 64KB (MB/s)	1642
Standard Deviation	0.4%
Flexible IO Tester - Seq Write - Sync - No - Yes - 1MB (MB/s)	2569
Standard Deviation	0%
Flexible IO Tester - Seq Write - Sync - No - Yes - 2MB (MB/s)	2708
Flexible IO Tester - Seq Write - Sync - No - Yes - 4KB (MB/s)	167
Flexible IO Tester - Seq Write - Sync - No - Yes - 4MB (MB/s)	2672
Flexible IO Tester - Seq Write - Sync - No - Yes - 8KB (MB/s)	319
Standard Deviation	0.5%
Flexible IO Tester - Seq Write - Sync - No - Yes - 8MB (MB/s)	2675
Flexible IO Tester - Seq Read - Sync - No - Yes - 128KB (MB/s)	2399
Standard Deviation	2.5%
Flexible IO Tester - Seq Read - Sync - No - Yes - 256KB (MB/s)	3050
Standard Deviation	2.9%
Flexible IO Tester - Seq Read - Sync - No - Yes - 512KB (MB/s)	4016
Standard Deviation	0.2%
Flexible IO Tester - Seq Write - Sync - No - Yes - 16KB (MB/s)	562
Standard Deviation	0.2%

Flexible IO Tester - Seq Write - Sync - No - Yes - 32KB (MB/s)	910
Standard Deviation	0.4%
Flexible IO Tester - Seq Write - Sync - No - Yes - 64KB (MB/s)	1339
Standard Deviation	0.2%
Flexible IO Tester - Seq Write - Sync - No - Yes - 128KB (MB/s)	1697
Standard Deviation	0.8%
Flexible IO Tester - Seq Write - Sync - No - Yes - 256KB (MB/s)	1977
Standard Deviation	1%
Flexible IO Tester - Seq Write - Sync - No - Yes - 512KB (MB/s)	2291
Standard Deviation	0.9%
FFTE - N.2.3.C.F.R (MFLOPS)	**85938**
Normalized	97.47%
Standard Deviation	0.2%
GROMACS - Water Benchmark (Ns/Day)	2.601
Standard Deviation	0.1%
perf-bench - Epoll Wait (ops/sec)	12132
Standard Deviation	0%
perf-bench - Futex Hash (ops/sec)	1284485
Standard Deviation	0%
perf-bench - Sched Pipe (ops/sec)	206349
Standard Deviation	1.4%
perf-bench - Futex Lock-Pi (ops/sec)	142
Standard Deviation	1.2%
perf-bench - Syscall Basic (ops/sec)	4844791
Standard Deviation	0.1%
MariaDB - 1 (Queries/sec)	16129
Standard Deviation	0%
MariaDB - 4 (Queries/sec)	13575
Standard Deviation	0.8%
MariaDB - 8 (Queries/sec)	10754
Standard Deviation	1.1%
MariaDB - 16 (Queries/sec)	8000
Standard Deviation	0.8%
MariaDB - 32 (Queries/sec)	3713
Standard Deviation	0.2%
MariaDB - 64 (Queries/sec)	1489
Standard Deviation	0.2%
MariaDB - 128 (Queries/sec)	620
Standard Deviation	0.2%
MariaDB - 256 (Queries/sec)	509
Standard Deviation	0.2%
Apache Benchmark - S.W.P.S (Reqs/sec)	**25397**
Normalized	98.88%
Standard Deviation	0.1%
NGINX Benchmark - S.W.P.S (Reqs/sec)	23509
Standard Deviation	0.1%
PHPBench - P.B.S (Score)	596618
Standard Deviation	0.1%
OpenSSL - R.4.b.P (Signs/sec)	**6238**
Normalized	99.73%
Standard Deviation	0.1%
glibc bench - cos (nanoseconds)	54.1800
Standard Deviation	0.1%

glibc bench - exp (nanoseconds)	7.40331
Standard Deviation	0.1%
glibc bench - ffs (nanoseconds)	1.78911
Standard Deviation	0.1%
glibc bench - sin (nanoseconds)	52.8568
Standard Deviation	0.2%
glibc bench - log2 (nanoseconds)	9.47226
Standard Deviation	0%
glibc bench - modf (nanoseconds)	2.56402
Standard Deviation	0.3%
glibc bench - sinh (nanoseconds)	11.5949
Standard Deviation	0.5%
glibc bench - sqrt (nanoseconds)	2.05159
Standard Deviation	0%
glibc bench - tanh (nanoseconds)	13.5881
Standard Deviation	2%
glibc bench - asinh (nanoseconds)	16.1719
Standard Deviation	0.3%
glibc bench - atanh (nanoseconds)	12.7626
Standard Deviation	0.1%
glibc bench - ffsll (nanoseconds)	1.78866
Standard Deviation	0.1%
glibc bench - sincos (nanoseconds)	15.4814
Standard Deviation	0.1%
glibc bench - pthread_once (nanoseconds)	1.80627
Standard Deviation	0.1%
Timed PHP Compilation - Time To Compile (sec)	**44.889**
Normalized	99.86%
Standard Deviation	0.4%
C-Ray - Total Time - 4.1.R.P.P (sec)	**32.653**
Normalized	98.5%
Standard Deviation	1.3%
Gzip Compression - L.S.T.A.T.t.g (sec)	**40.899**
Normalized	99.88%
Standard Deviation	0.3%
Minion - Graceful (sec)	51.081553
Standard Deviation	2.3%
Minion - Solitaire (sec)	69.673037
Standard Deviation	0.3%
Minion - Quasigroup (sec)	110.106117
Standard Deviation	0.2%
PHP Micro Benchmarks - Zend bench (sec)	0.415
Standard Deviation	0.2%
PHP Micro Benchmarks - Zend micro_bench (sec)	2.219
Standard Deviation	0.4%

Sysbench 2018-07-28

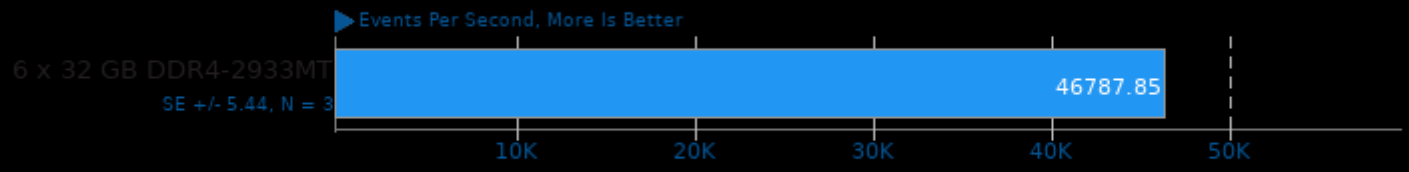
Test: Memory



1. (CC) gcc options: -pthread -O3 -funroll-loops -ggdb3 -march=core2 -rdynamic -ldl -laio -lm

Sysbench 2018-07-28

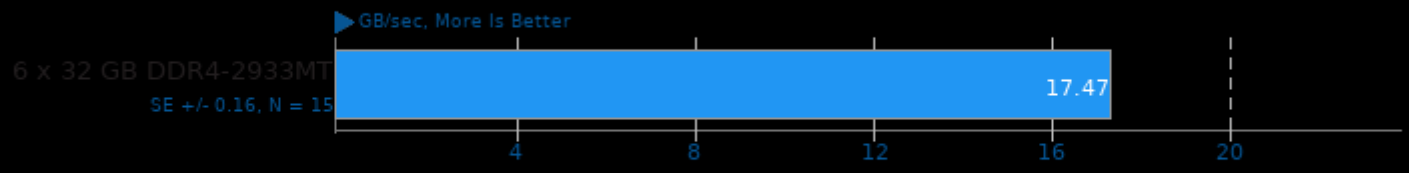
Test: CPU



1. (CC) gcc options: -pthread -O3 -funroll-loops -ggdb3 -march=core2 -rdynamic -ldl -laio -lm

perf-bench

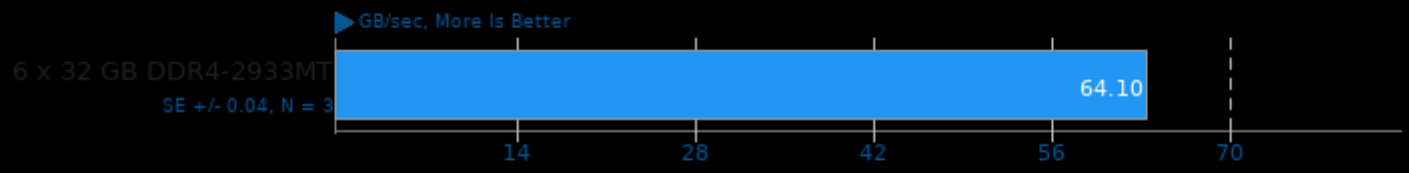
Benchmark: Memcpy 1MB



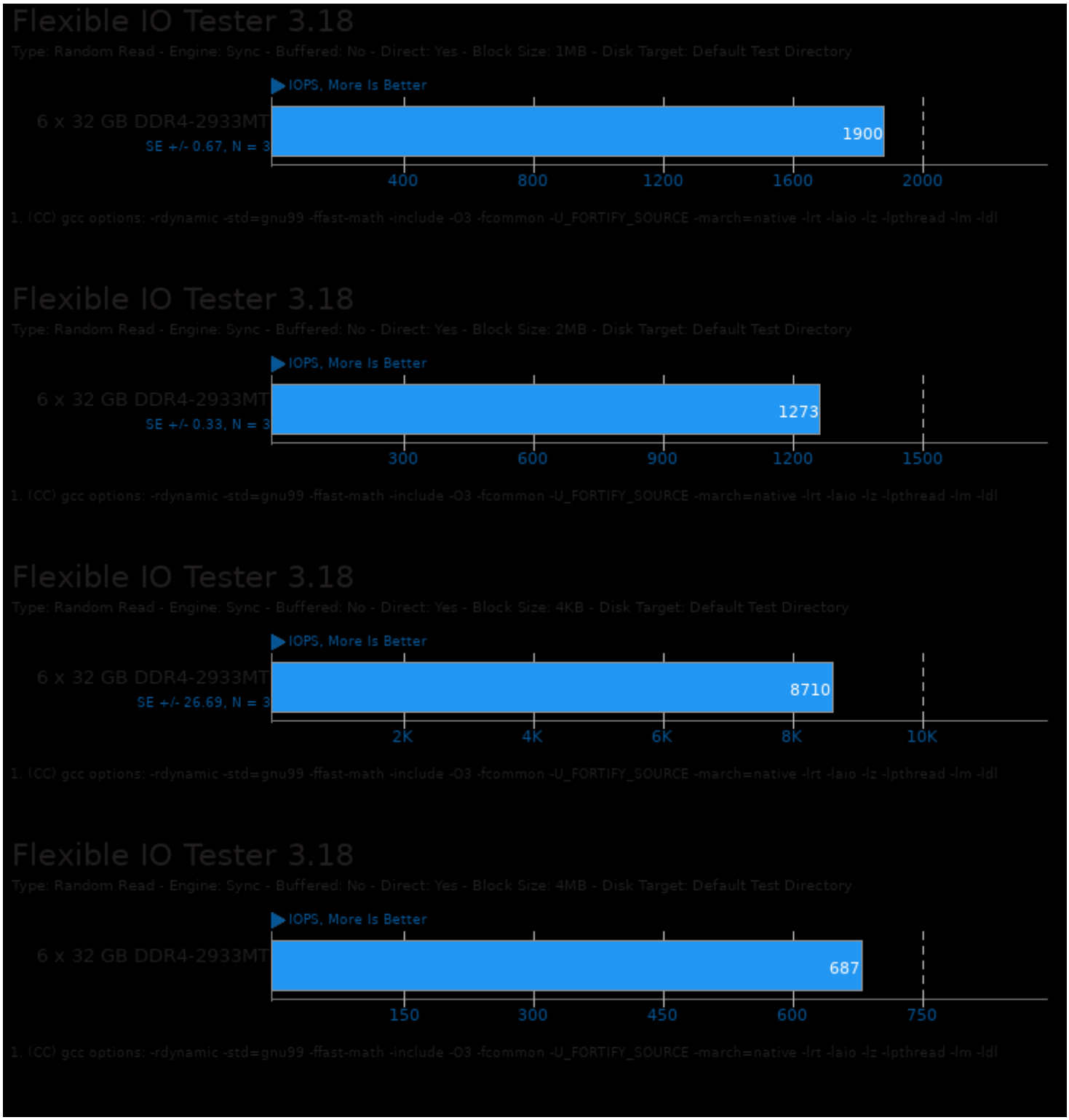
1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -Xlinker -lpthread -lrt -lm -ldl -lcrypto -lperl -lresolv -lcrypt -lutil -lc -lz -llzma

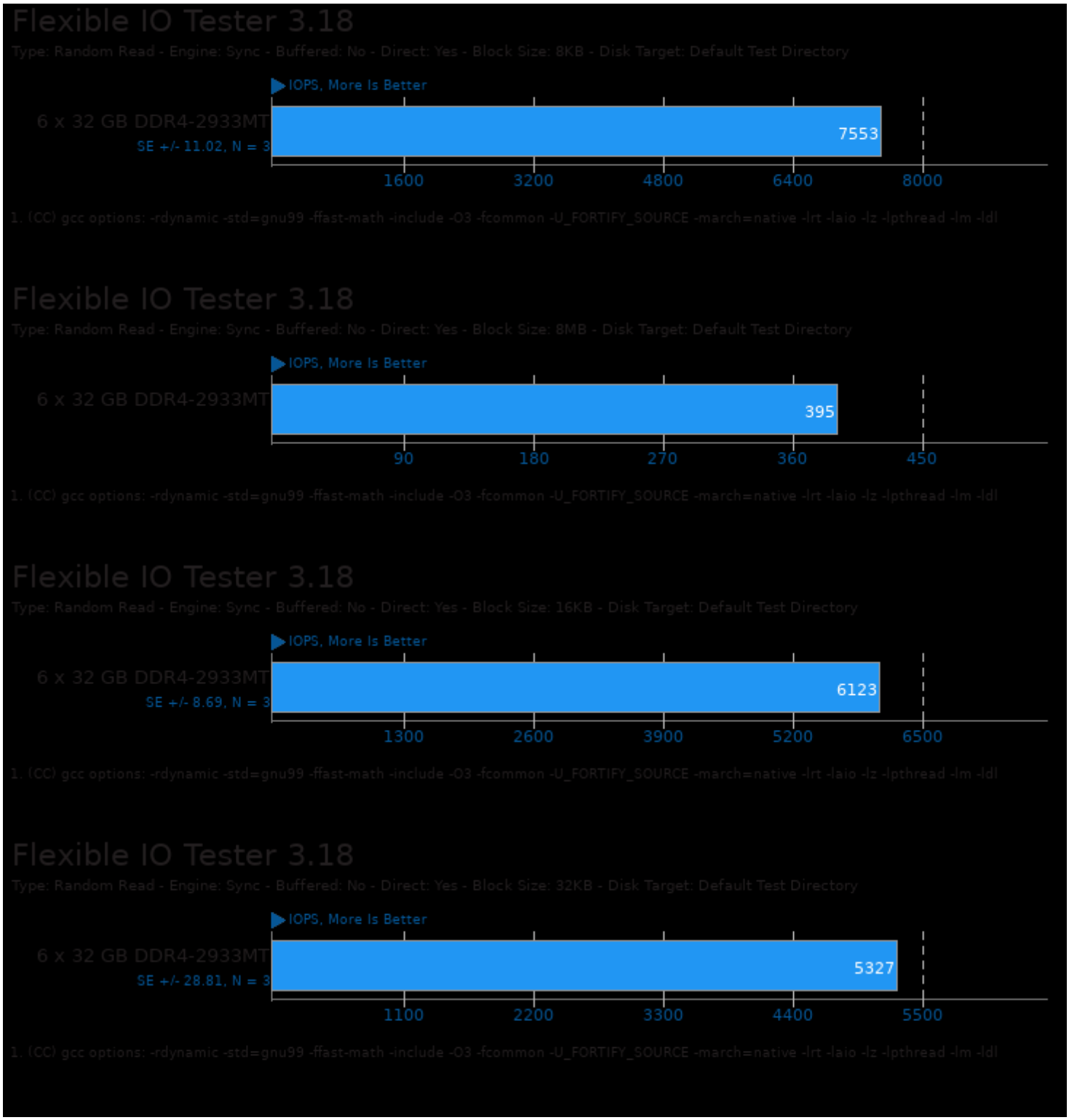
perf-bench

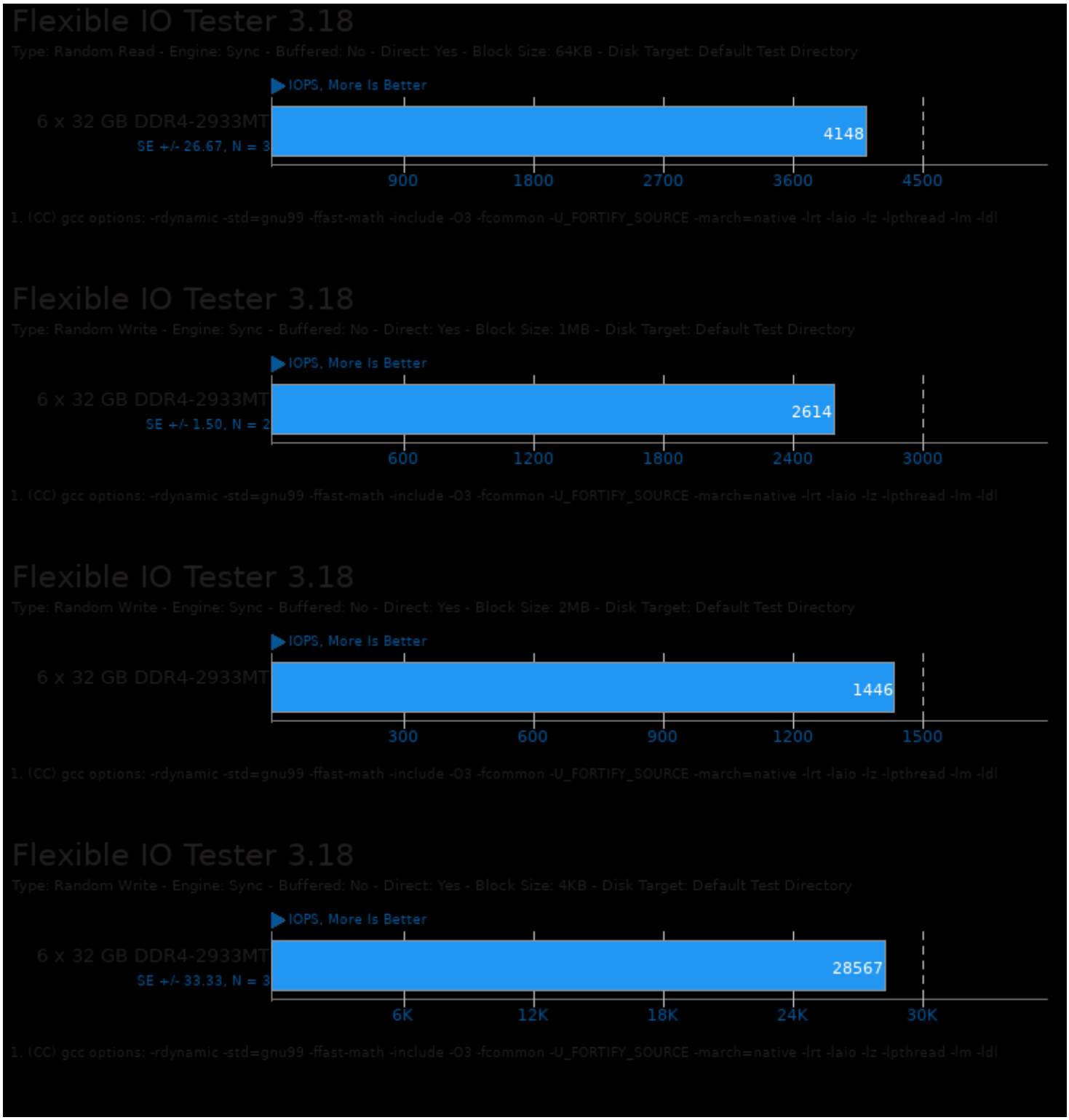
Benchmark: Memset 1MB

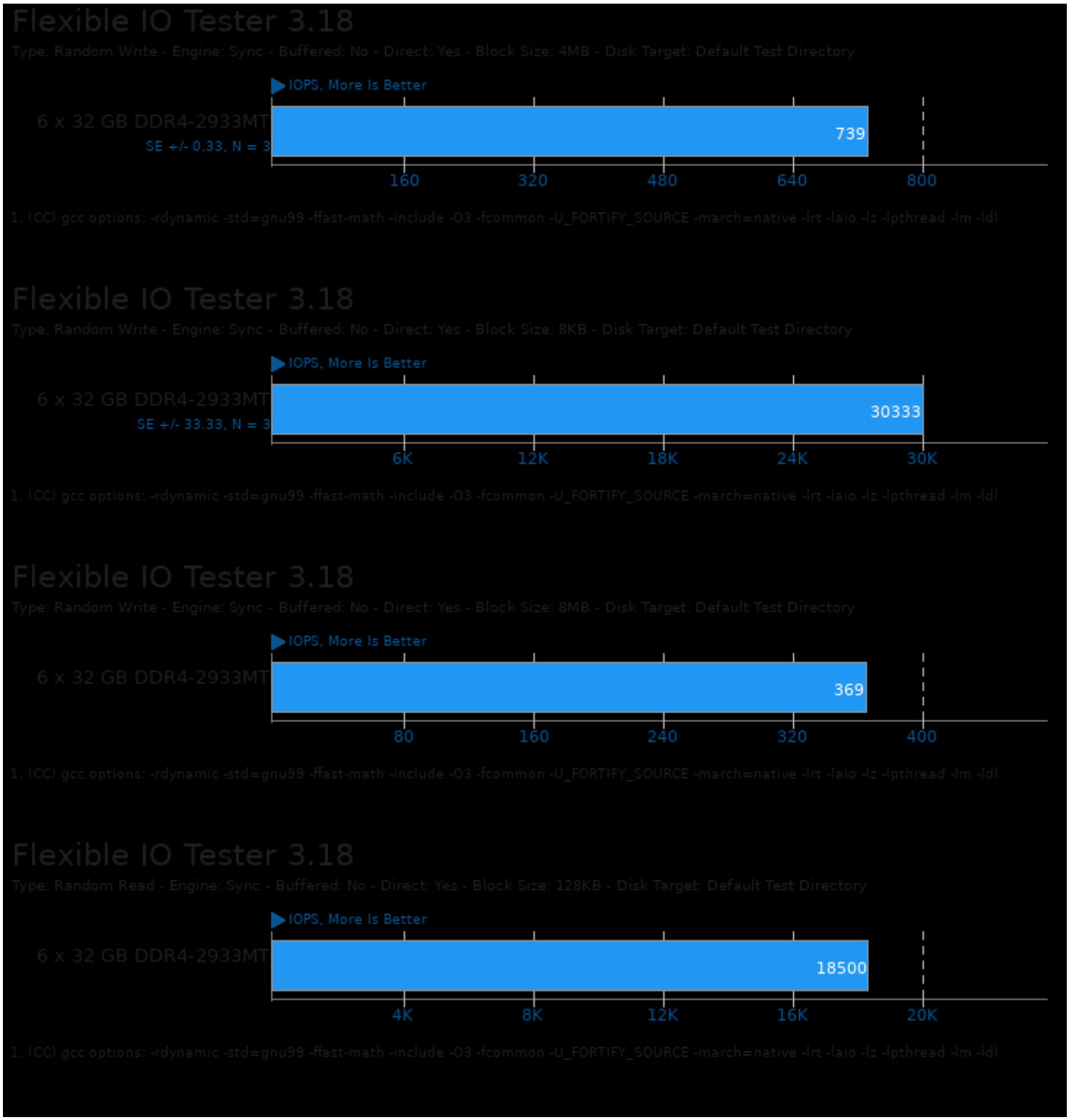


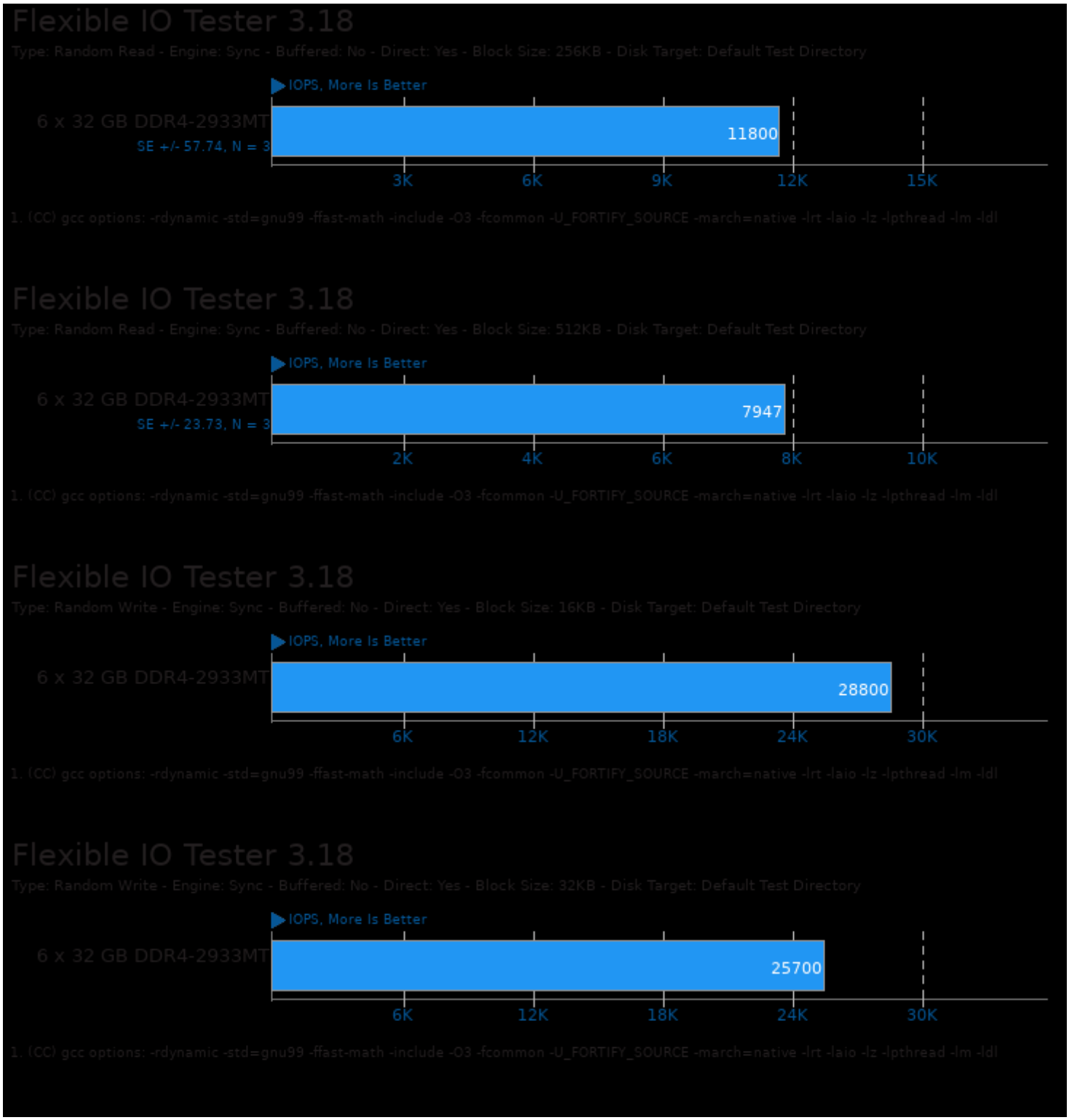
1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -Xlinker -lpthread -lrt -lm -ldl -lcrypto -lperl -lresolv -lcrypt -lutil -lc -lz -llzma

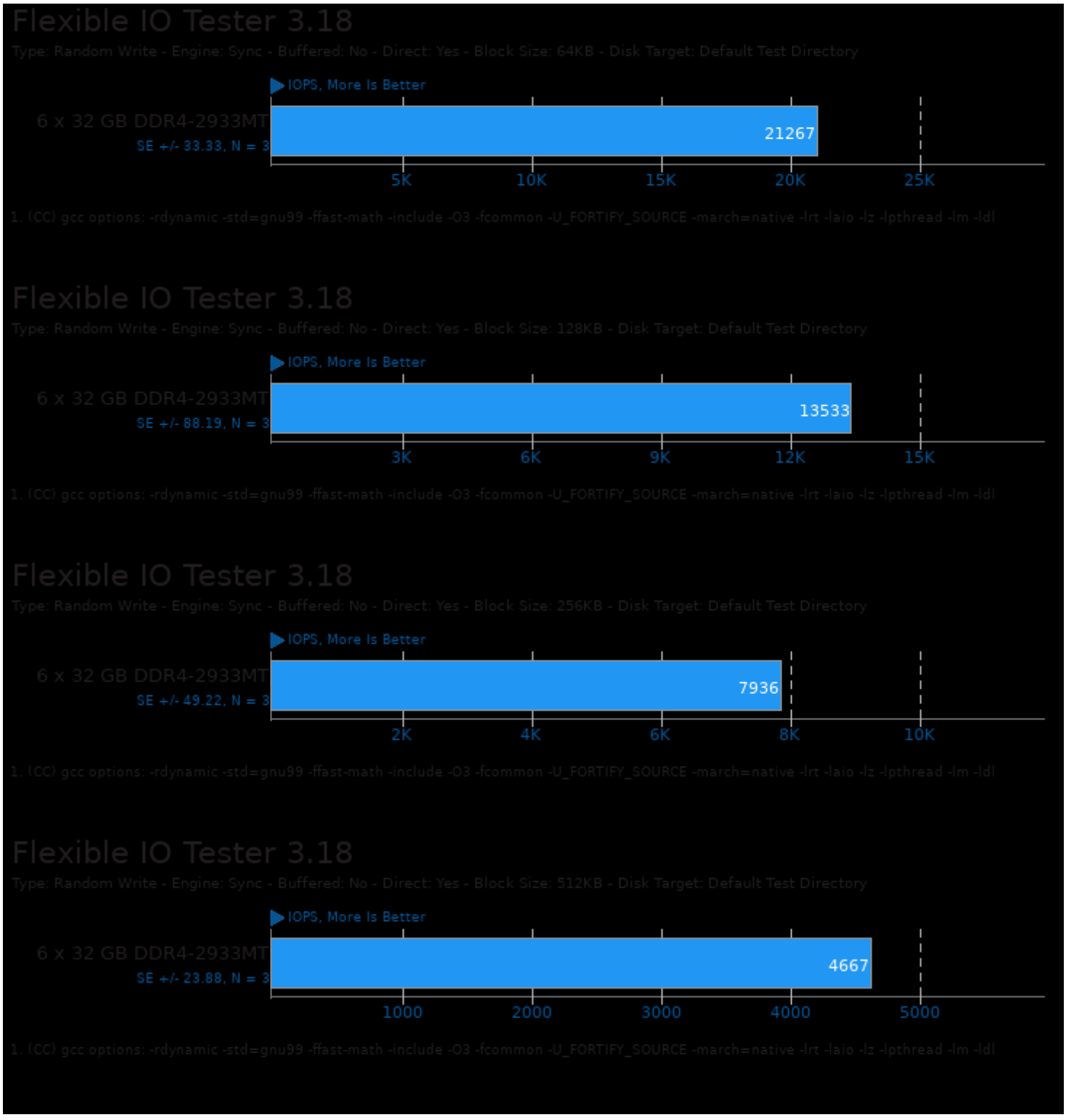

Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.67, N = 3
1900
400
800
1200
1600
2000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.33, N = 3
1273
300
600
900
1200
1500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 26.69, N = 3
8710
2K
4K
6K
8K
10K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4MB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
687
150
300
450
600
750
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 11.02, N = 3
7553
1600
3200
4800
6400
8000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
395
90
180
270
360
450
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 8.69, N = 3
6123
1300
2600
3900
5200
6500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 32KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 28.81, N = 3
5327
1100
2200
3300
4400
5500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 26.67, N = 3
4148
900
1800
2700
3600
4500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 1.50, N = 2
2614
600
1200
1800
2400
3000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
1446
300
600
900
1200
1500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 33.33, N = 3
28567
6K
12K
18K
24K
30K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

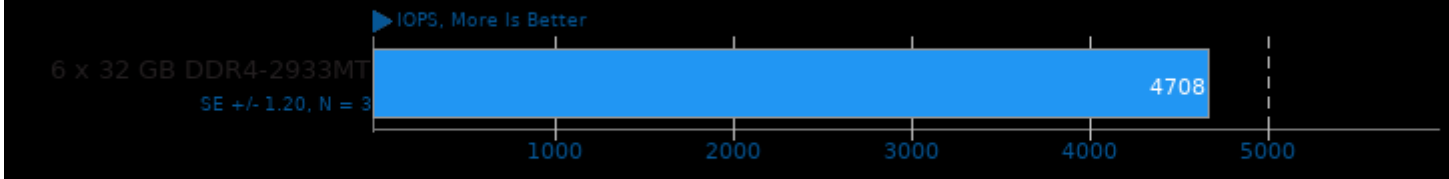

Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4MB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.33, N = 3
739
160
320
480
640
800
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 33.33, N = 3
30333
6K
12K
18K
24K
30K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
369
80
160
240
320
400
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 128KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
18500
4K
8K
12K
16K
20K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 256KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 57.74, N = 3
11800
3K
6K
9K
12K
15K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 23.73, N = 3
7947
2K
4K
6K
8K
10K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
28800
6K
12K
18K
24K
30K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 32KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
25700
6K
12K
18K
24K
30K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 33.33, N = 3
21267
5K
10K
15K
20K
25K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 128KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 88.19, N = 3
13533
3K
6K
9K
12K
15K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 256KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 49.22, N = 3
7936
2K
4K
6K
8K
10K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 23.88, N = 3
4667
1000
2000
3000
4000
5000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

Flexible IO Tester 3.18

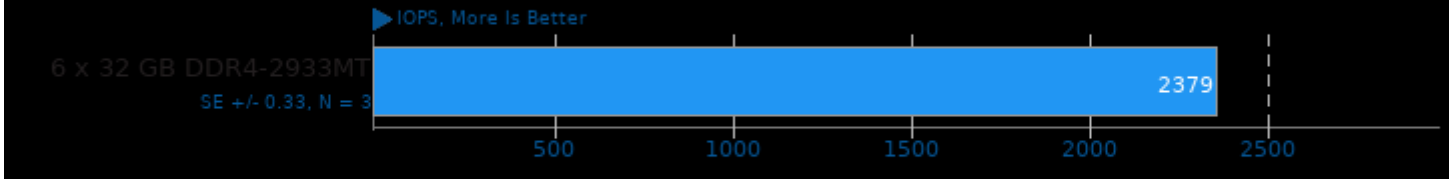
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

Flexible IO Tester 3.18

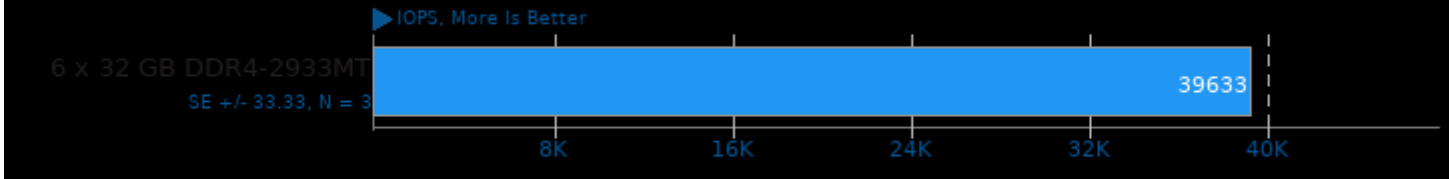
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

Flexible IO Tester 3.18

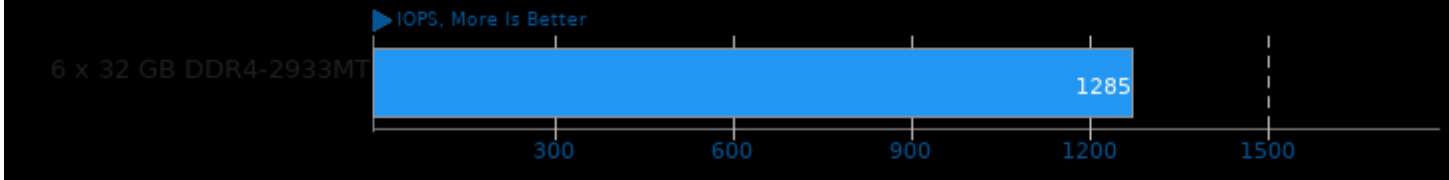
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



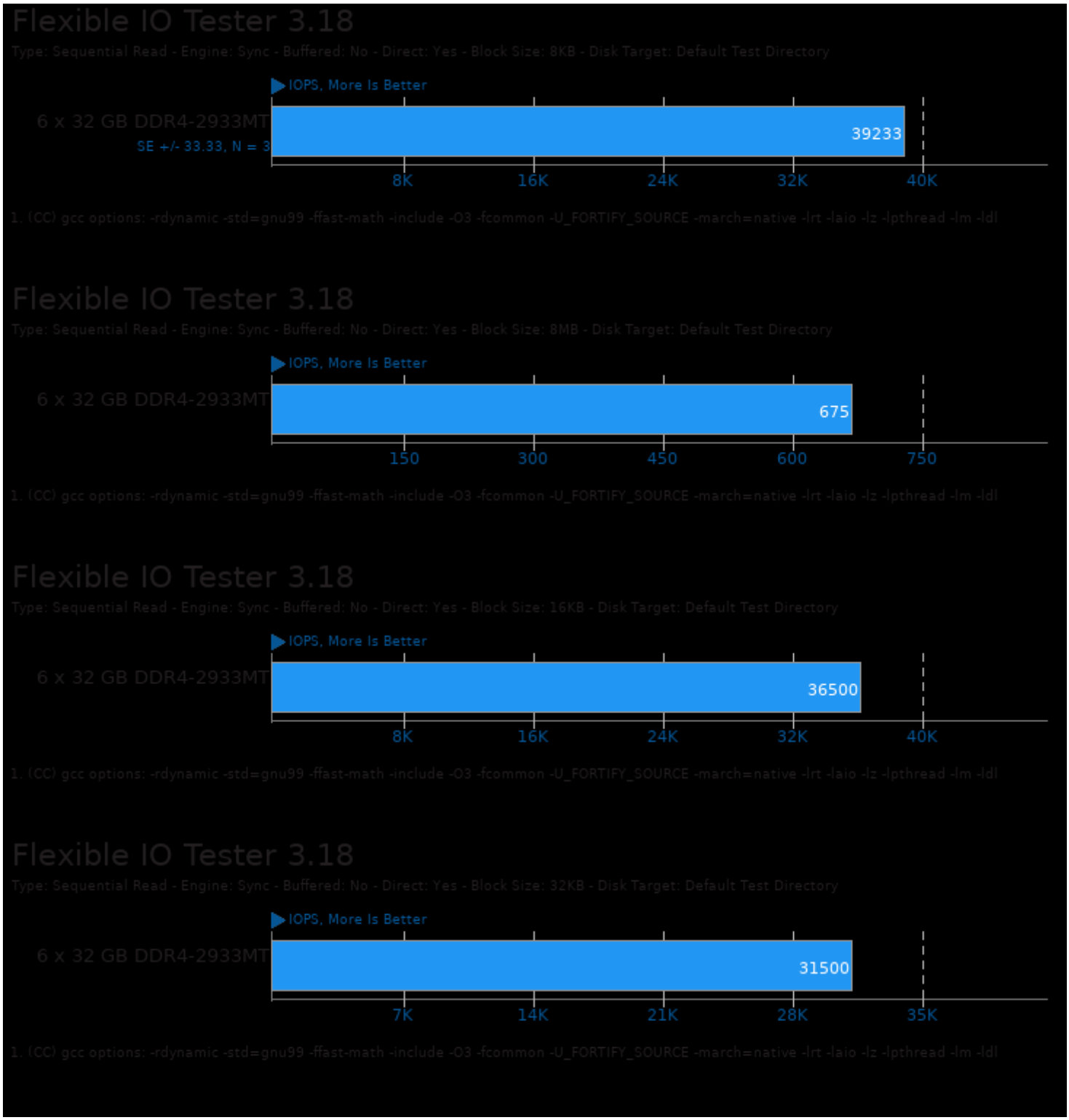
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

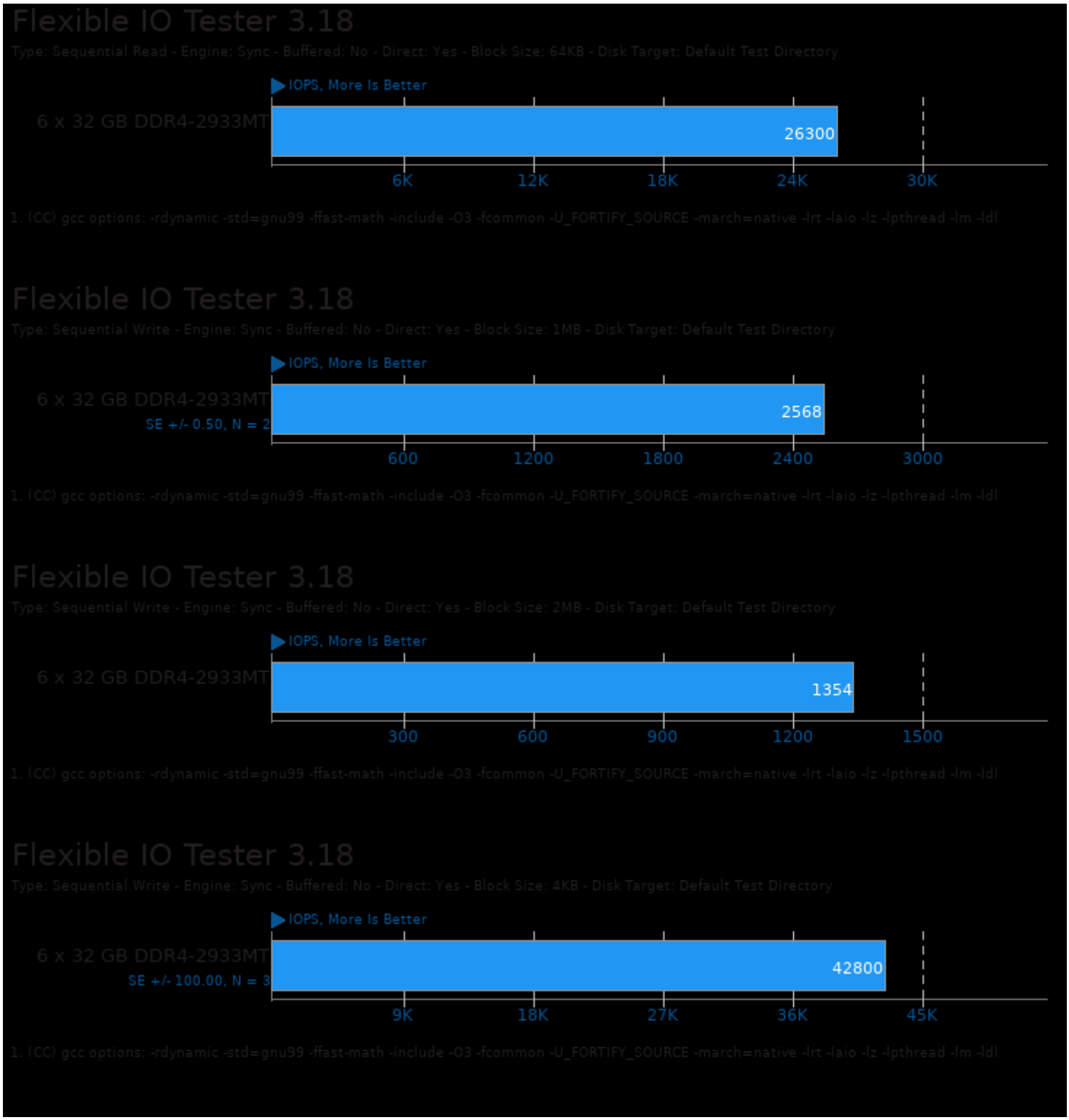
Flexible IO Tester 3.18

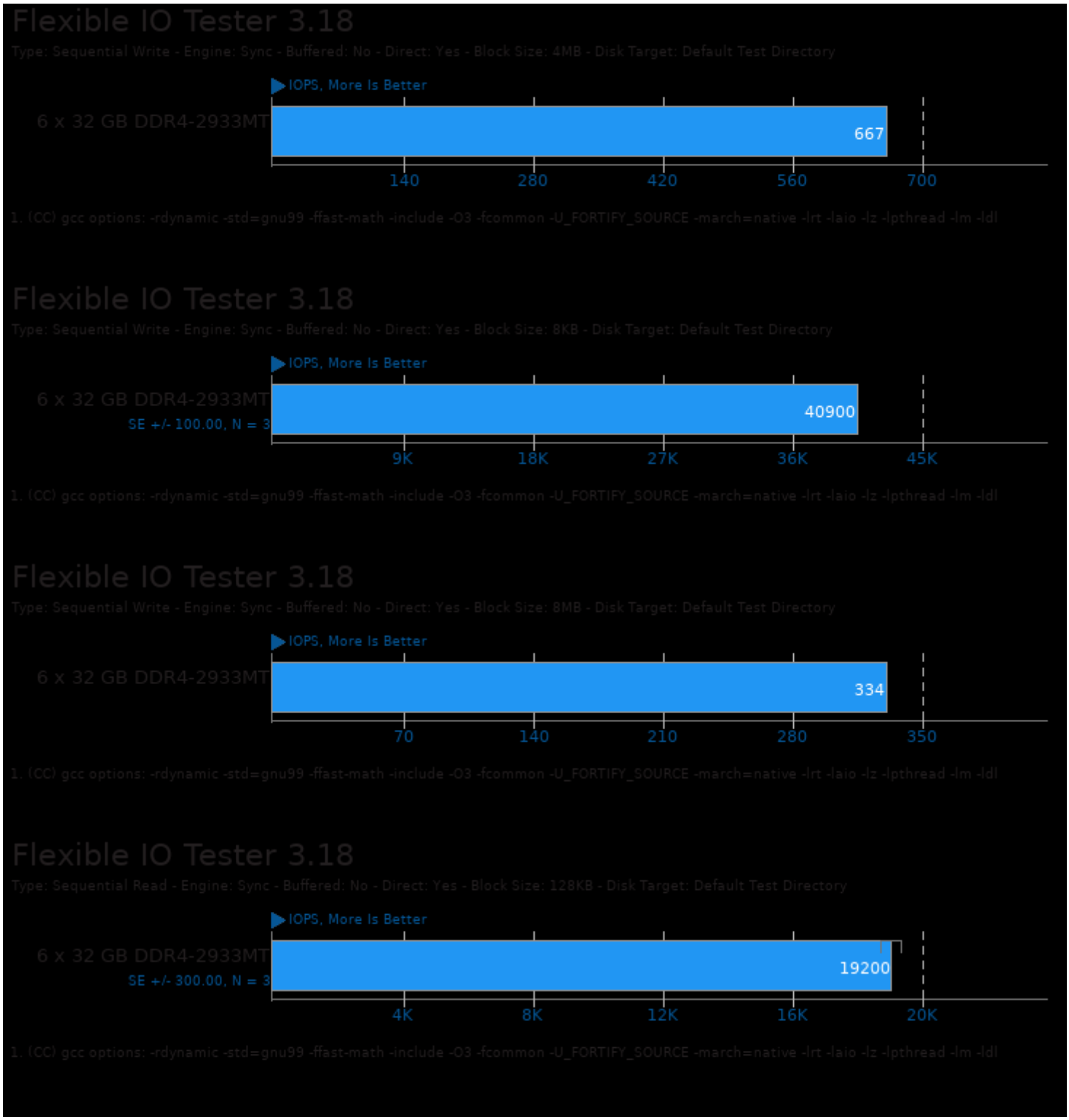
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4MB - Disk Target: Default Test Directory

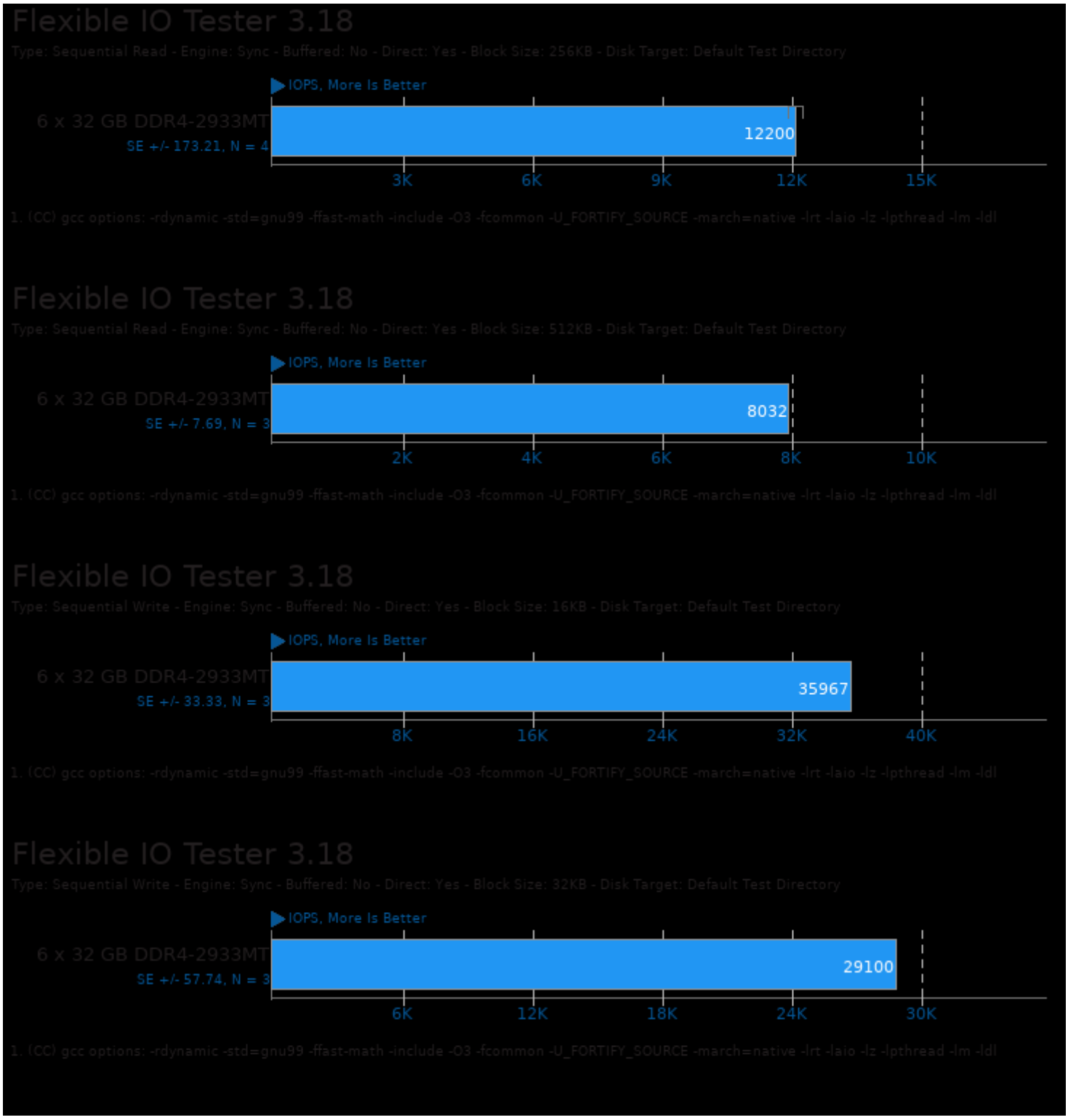


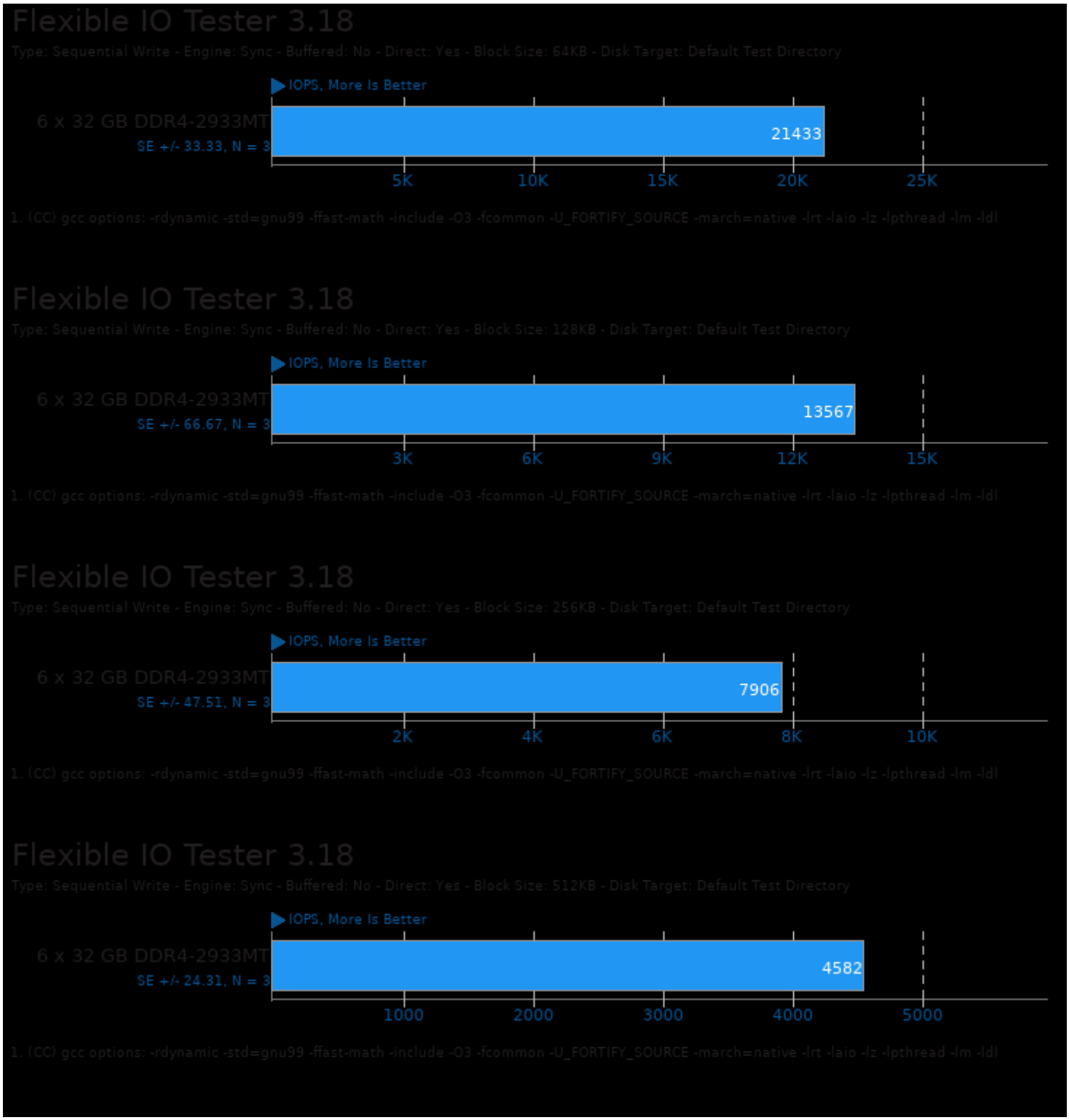
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 33.33, N = 3
39233
8K
16K
24K
32K
40K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
675
150
300
450
600
750
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
36500
8K
16K
24K
32K
40K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 32KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
31500
7K
14K
21K
28K
35K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
26300
6K
12K
18K
24K
30K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.50, N = 2
2568
600
1200
1800
2400
3000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
1354
300
600
900
1200
1500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 100.00, N = 3
42800
9K
18K
27K
36K
45K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

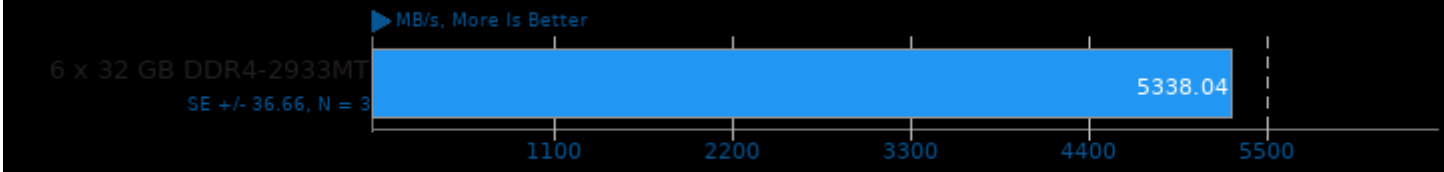

Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4MB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
667
140
280
420
560
700
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 100.00, N = 3
40900
9K
18K
27K
36K
45K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
334
70
140
210
280
350
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 128KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 300.00, N = 3
19200
4K
8K
12K
16K
20K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 256KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 173.21, N = 4
12200
3K
6K
9K
12K
15K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 7.69, N = 3
8032
2K
4K
6K
8K
10K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 33.33, N = 3
35967
8K
16K
24K
32K
40K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 32KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 57.74, N = 3
29100
6K
12K
18K
24K
30K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 33.33, N = 3
21433
5K
10K
15K
20K
25K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 128KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 66.67, N = 3
13567
3K
6K
9K
12K
15K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 256KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 47.51, N = 3
7906
2K
4K
6K
8K
10K
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
IOPS, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 24.31, N = 3
4582
1000
2000
3000
4000
5000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

AIO-Stress 0.21

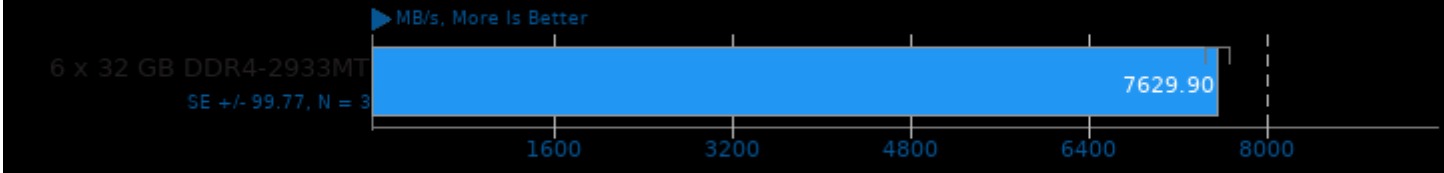
Test: Random Write



1. (CC) gcc options: -O3 -pthread -laio

IOzone 3.465

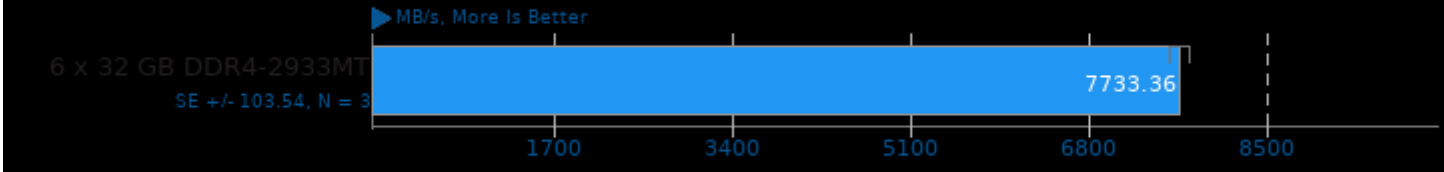
Record Size: 1MB - File Size: 8GB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

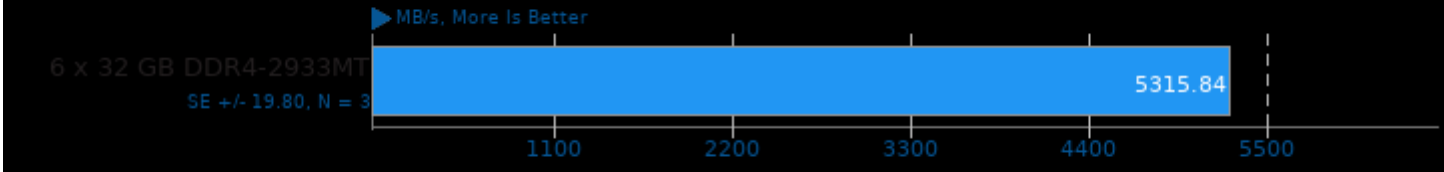
Record Size: 2MB - File Size: 8GB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

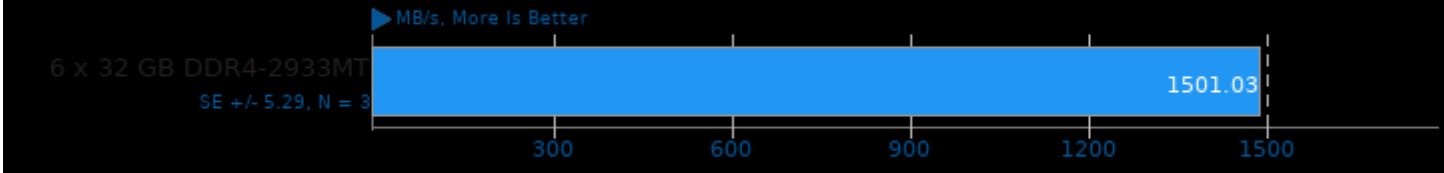
Record Size: 4Kb - File Size: 8GB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

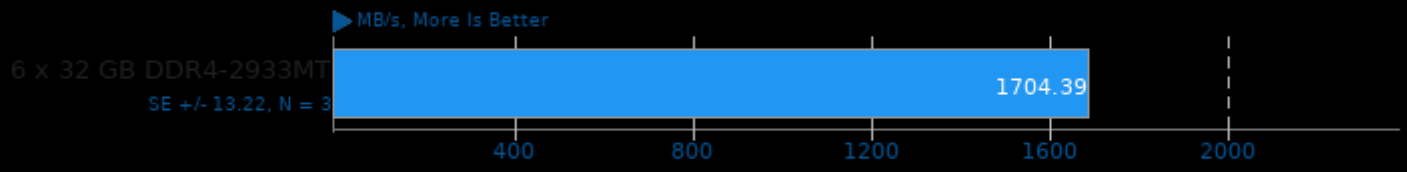
Record Size: 1MB - File Size: 8GB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

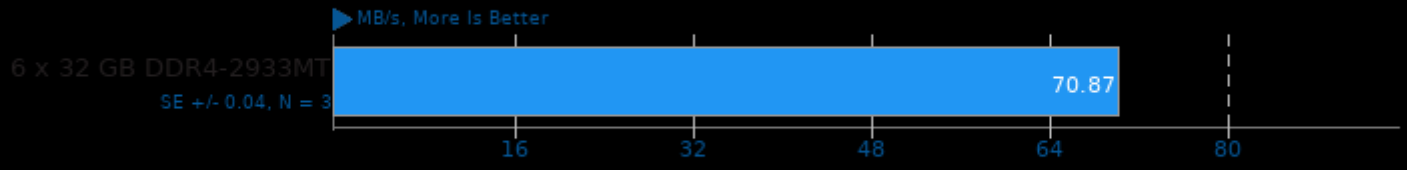
Record Size: 2MB - File Size: 8GB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

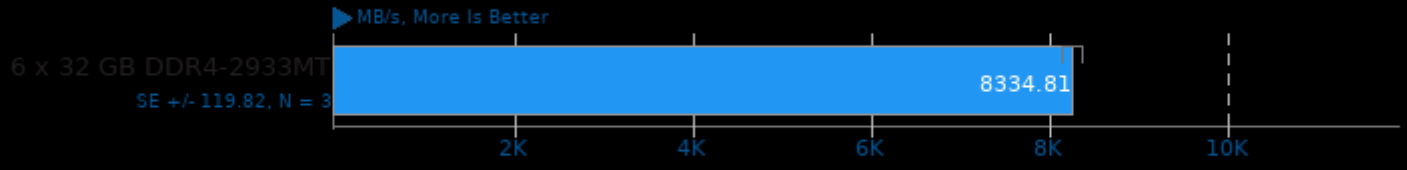
Record Size: 4Kb - File Size: 8GB - Disk Test: Write Performance



1. (CC) gcc options: -O3

IOzone 3.465

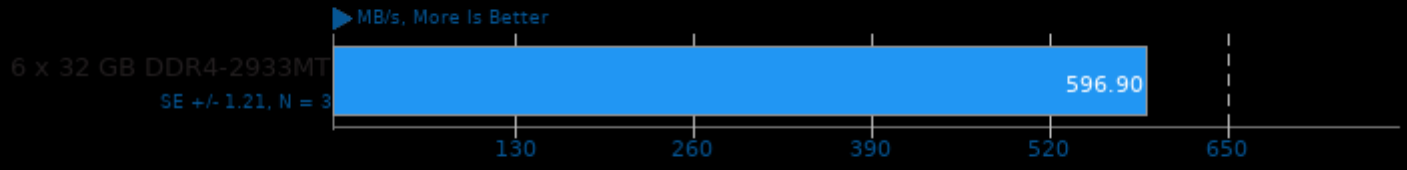
Record Size: 64Kb - File Size: 8GB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.465

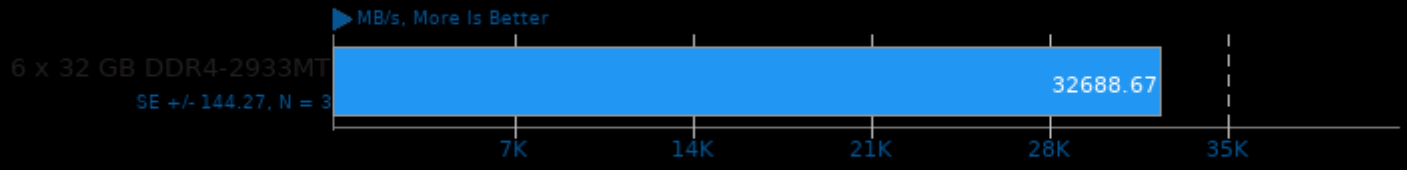
Record Size: 64Kb - File Size: 8GB - Disk Test: Write Performance



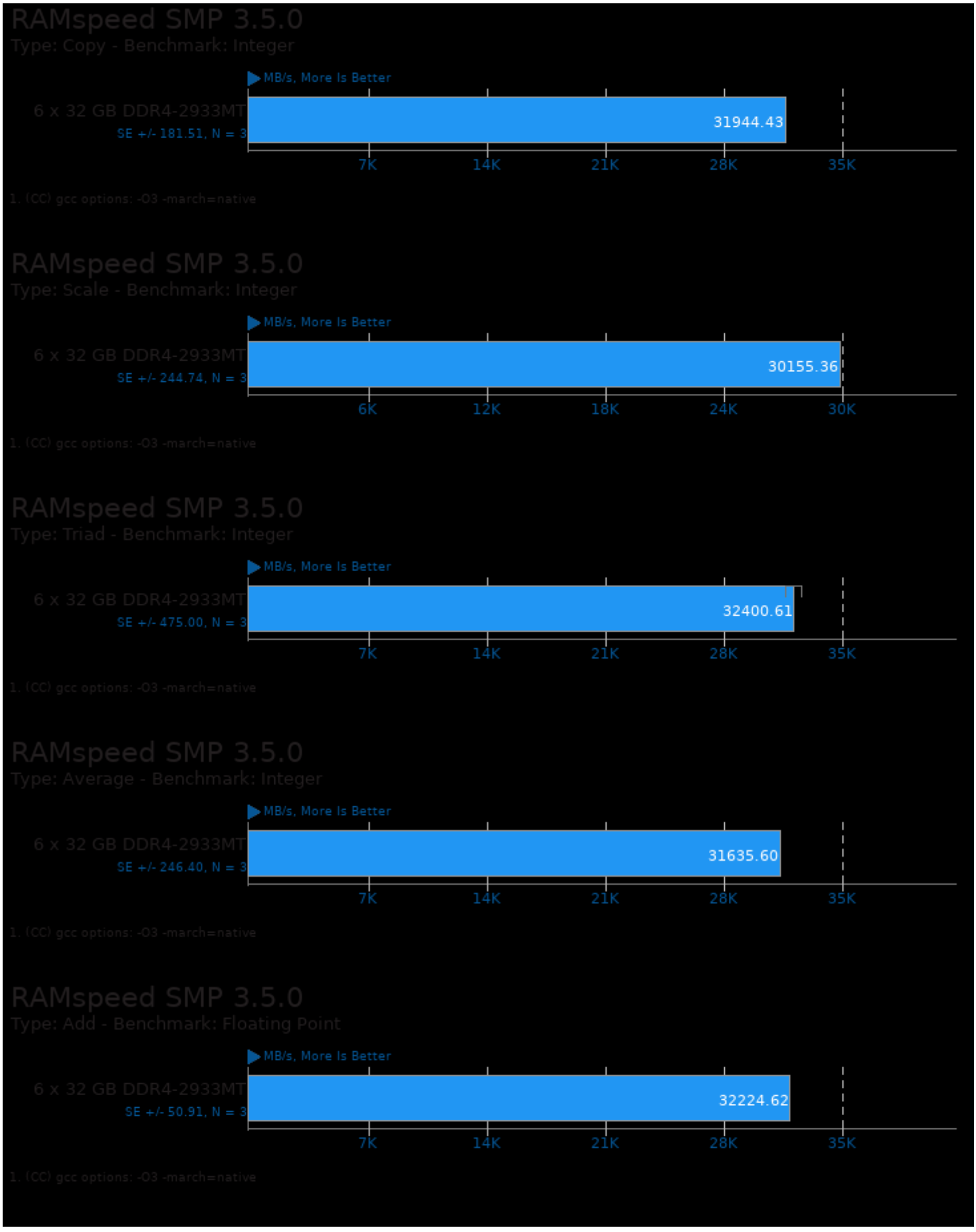
1. (CC) gcc options: -O3

RAMspeed SMP 3.5.0

Type: Add - Benchmark: Integer

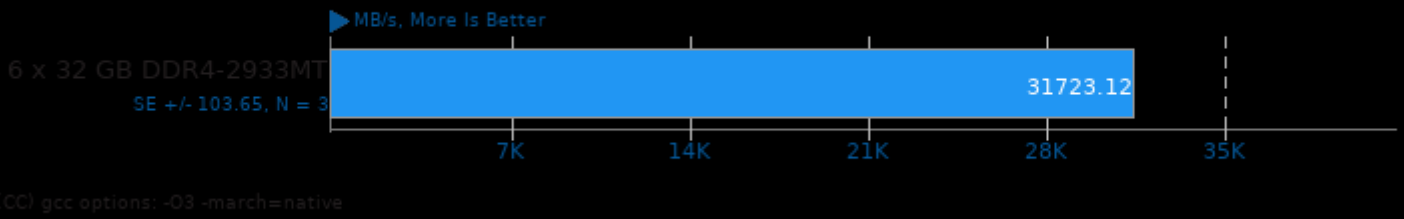


1. (CC) gcc options: -O3 -march=native


RAMspeed SMP 3.5.0
Type: Copy - Benchmark: Integer
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 181.51, N = 3
31944.43
7K
14K
21K
28K
35K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Scale - Benchmark: Integer
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 244.74, N = 3
30155.36
6K
12K
18K
24K
30K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Triad - Benchmark: Integer
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 475.00, N = 3
32400.61
7K
14K
21K
28K
35K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Average - Benchmark: Integer
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 246.40, N = 3
31635.60
7K
14K
21K
28K
35K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Add - Benchmark: Floating Point
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 50.91, N = 3
32224.62
7K
14K
21K
28K
35K
1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

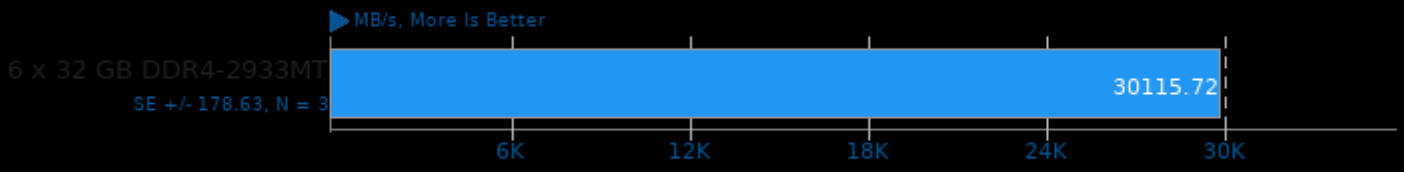
Type: Copy - Benchmark: Floating Point



1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

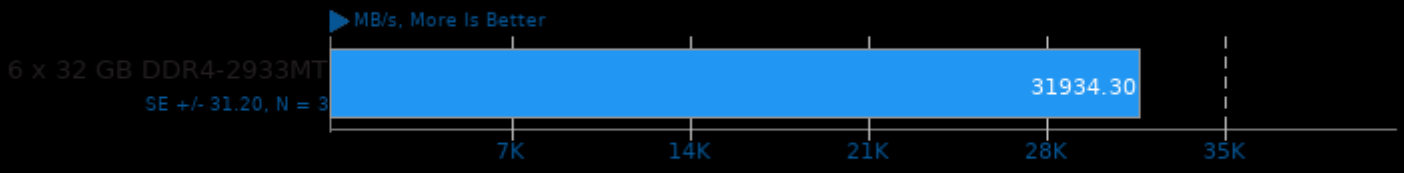
Type: Scale - Benchmark: Floating Point



1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

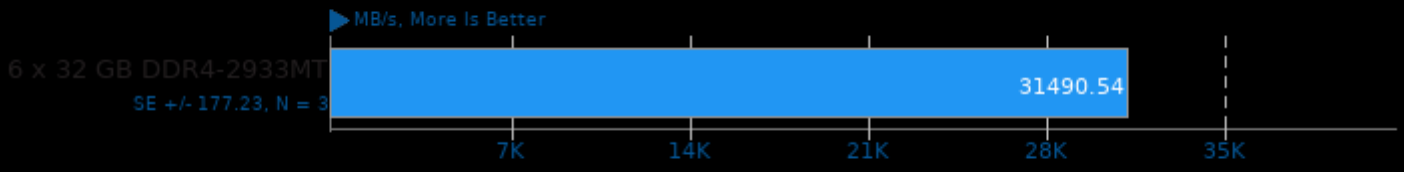
Type: Triad - Benchmark: Floating Point



1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

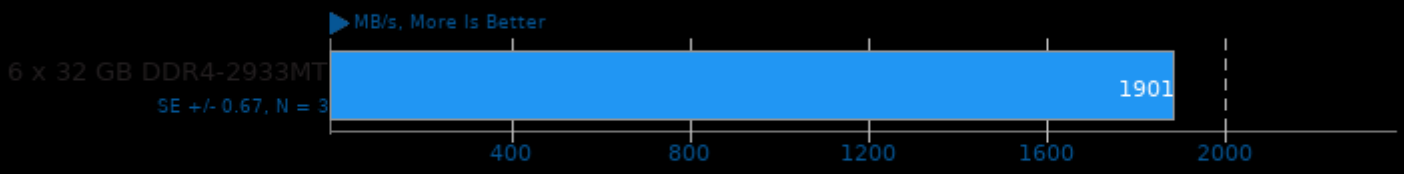
Type: Average - Benchmark: Floating Point



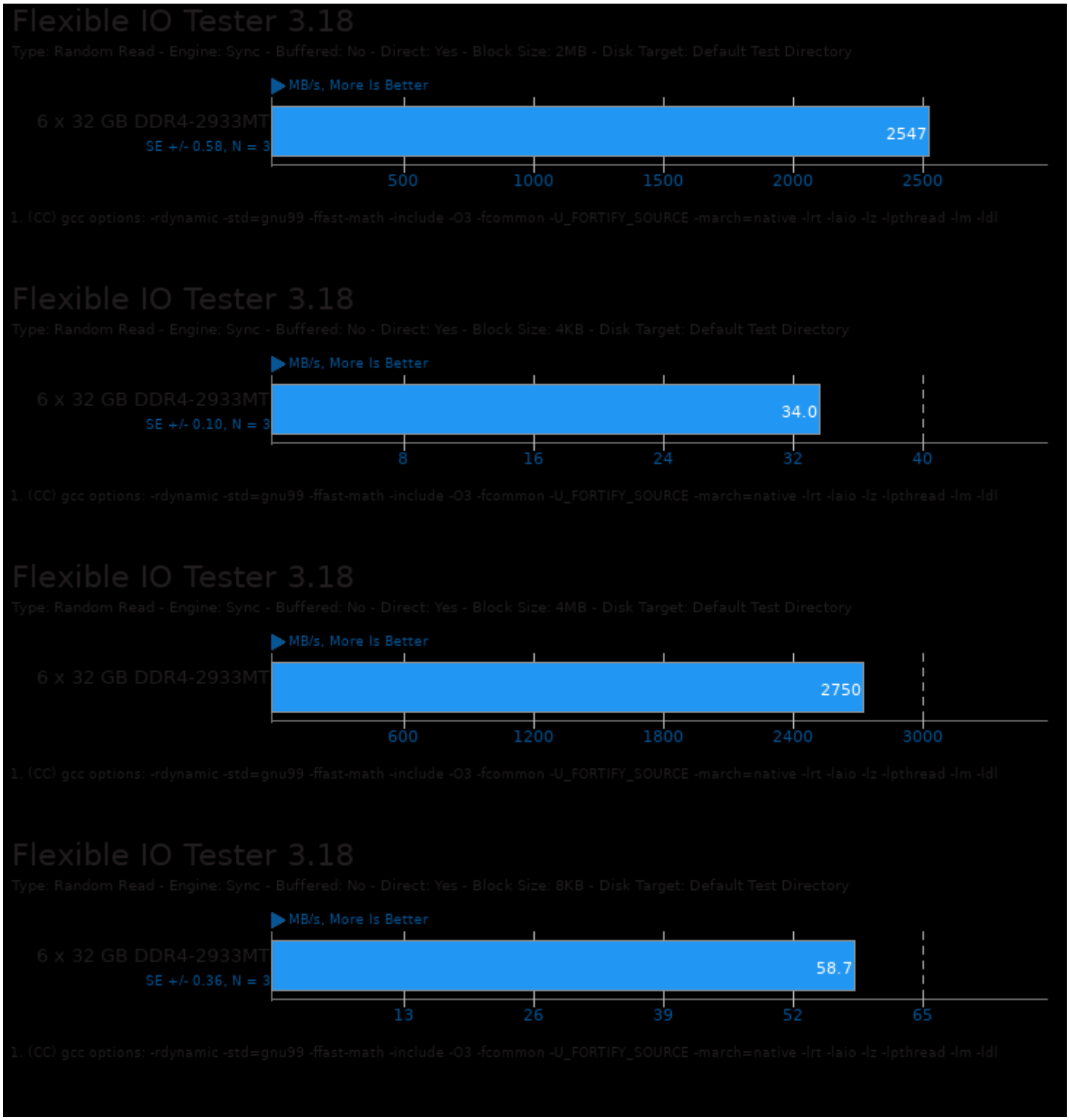
1. (CC) gcc options: -O3 -march=native

Flexible IO Tester 3.18

Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory

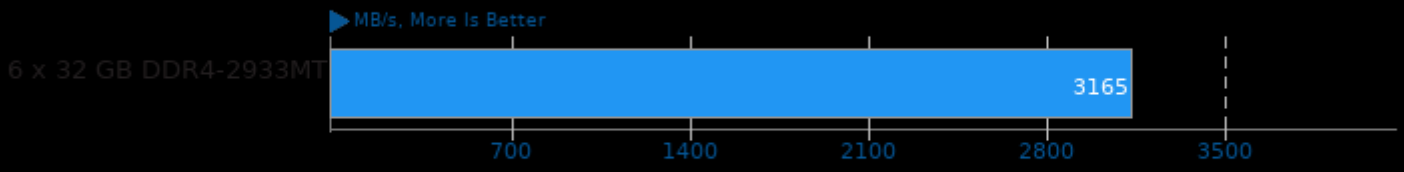


1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.58, N = 3
2547
500
1000
1500
2000
2500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.10, N = 3
34.0
8
16
24
32
40
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4MB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
2750
600
1200
1800
2400
3000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.36, N = 3
58.7
13
26
39
52
65
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

Flexible IO Tester 3.18

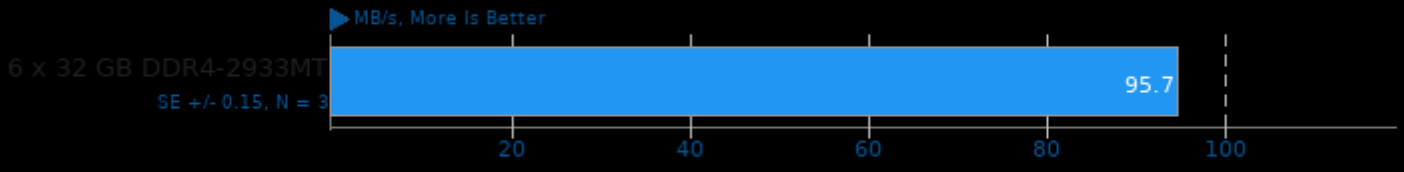
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

Flexible IO Tester 3.18

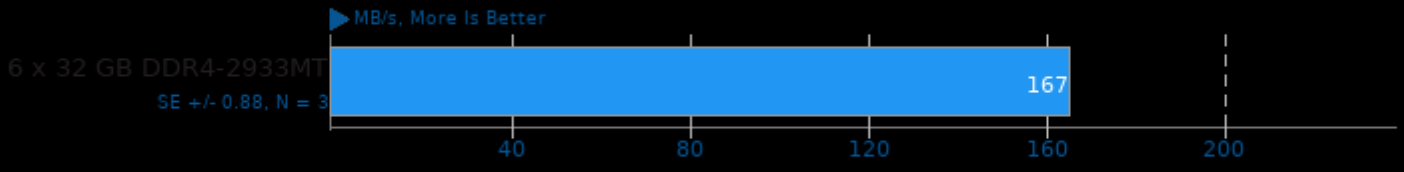
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

Flexible IO Tester 3.18

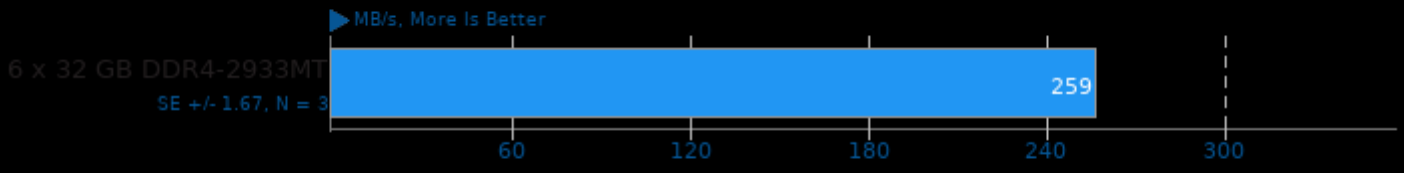
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 32KB - Disk Target: Default Test Directory



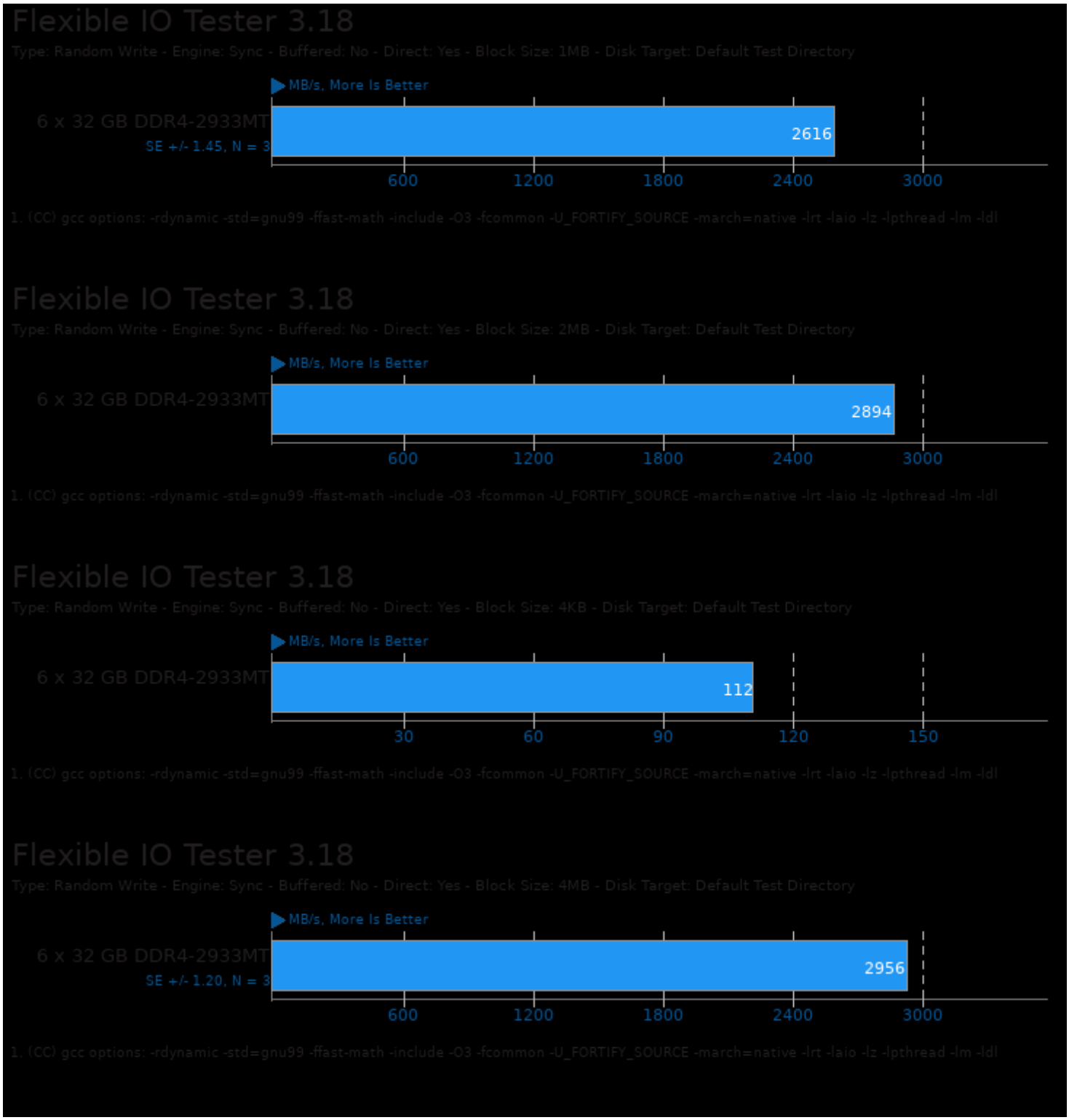
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

Flexible IO Tester 3.18

Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory

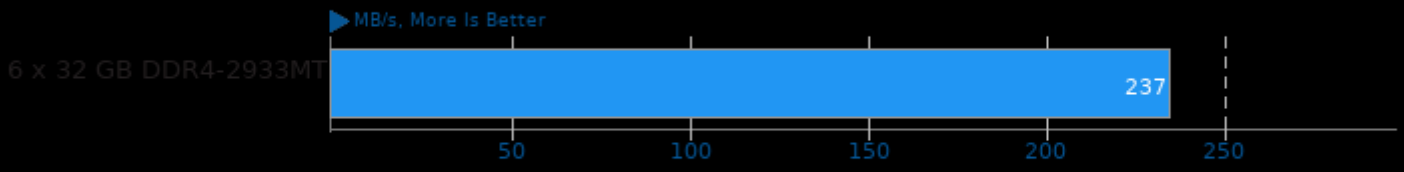


1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 1.45, N = 3
2616
600
1200
1800
2400
3000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
2894
600
1200
1800
2400
3000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
112
30
60
90
120
150
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4MB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 1.20, N = 3
2956
600
1200
1800
2400
3000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

Flexible IO Tester 3.18

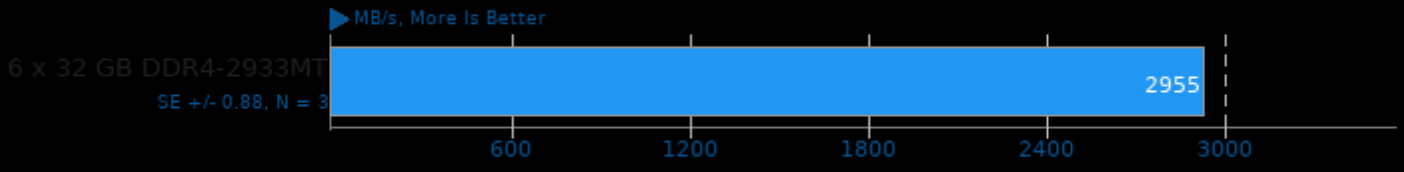
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

Flexible IO Tester 3.18

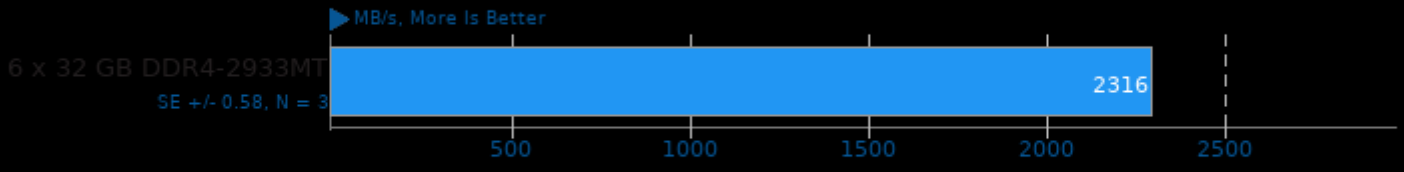
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

Flexible IO Tester 3.18

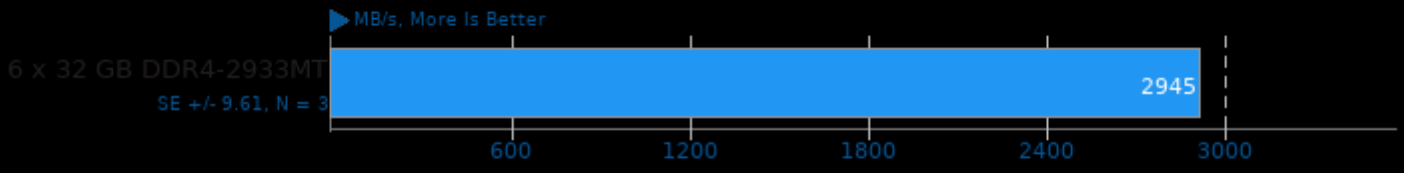
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 128KB - Disk Target: Default Test Directory



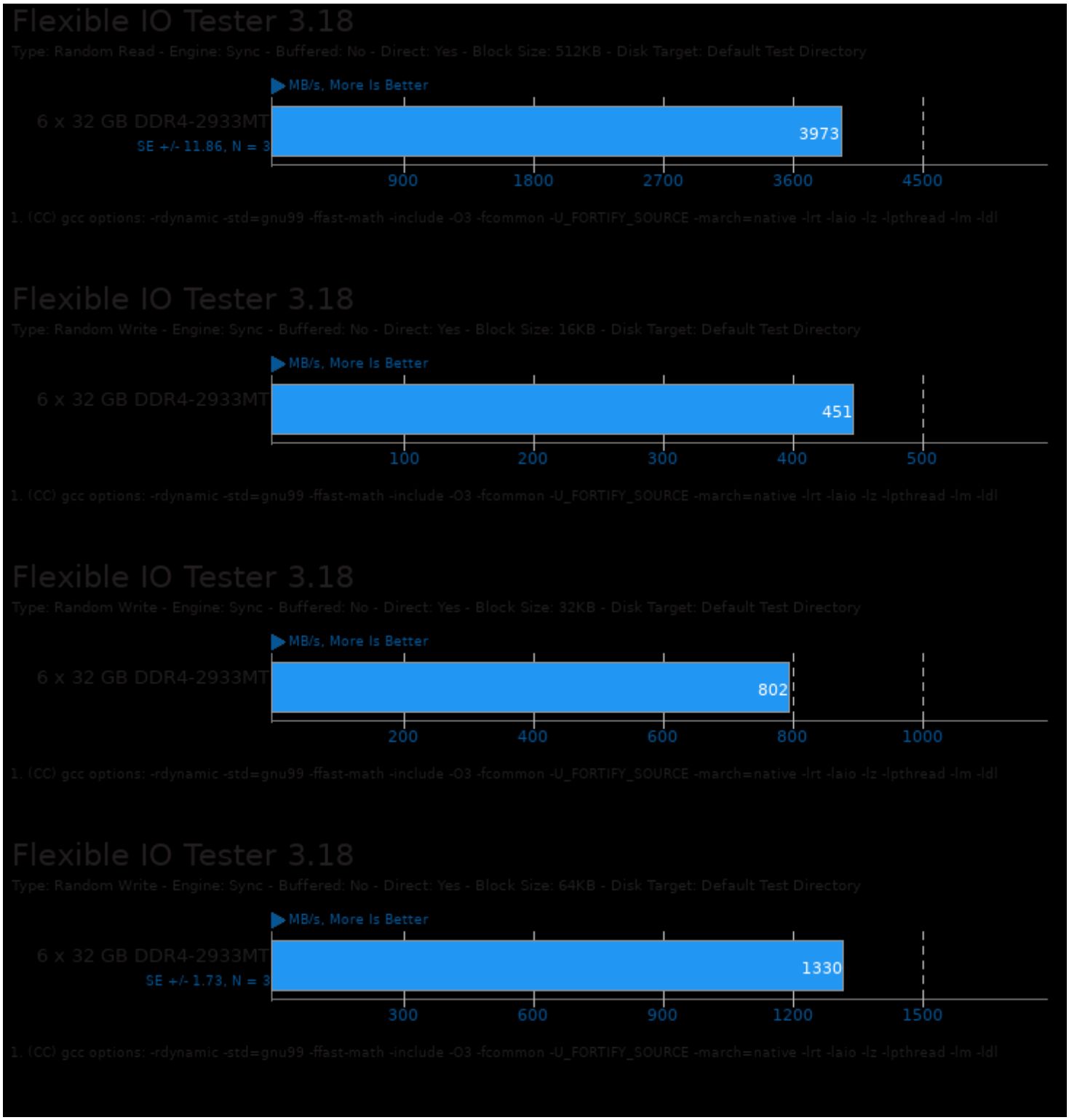
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

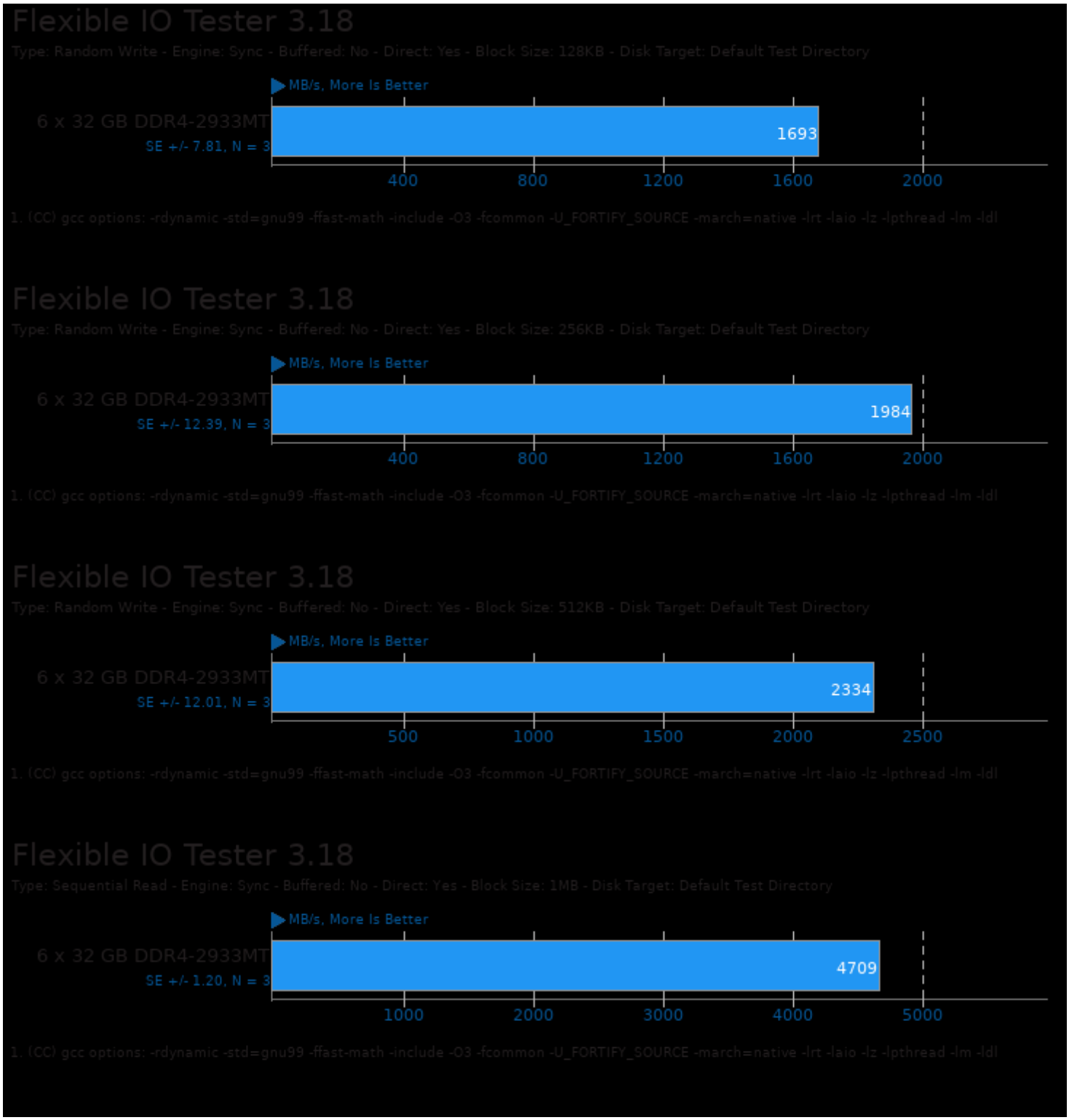
Flexible IO Tester 3.18

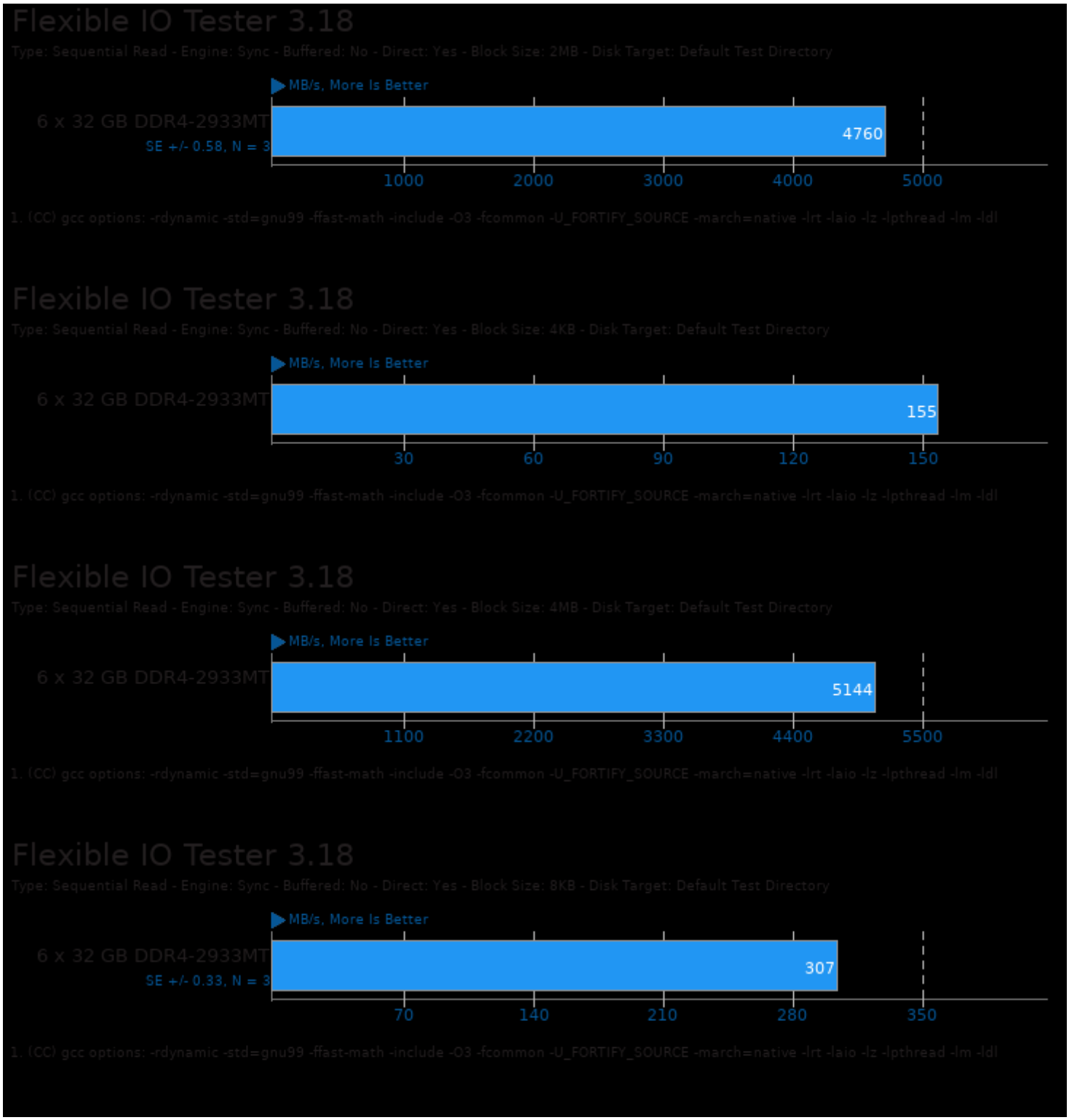
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 256KB - Disk Target: Default Test Directory

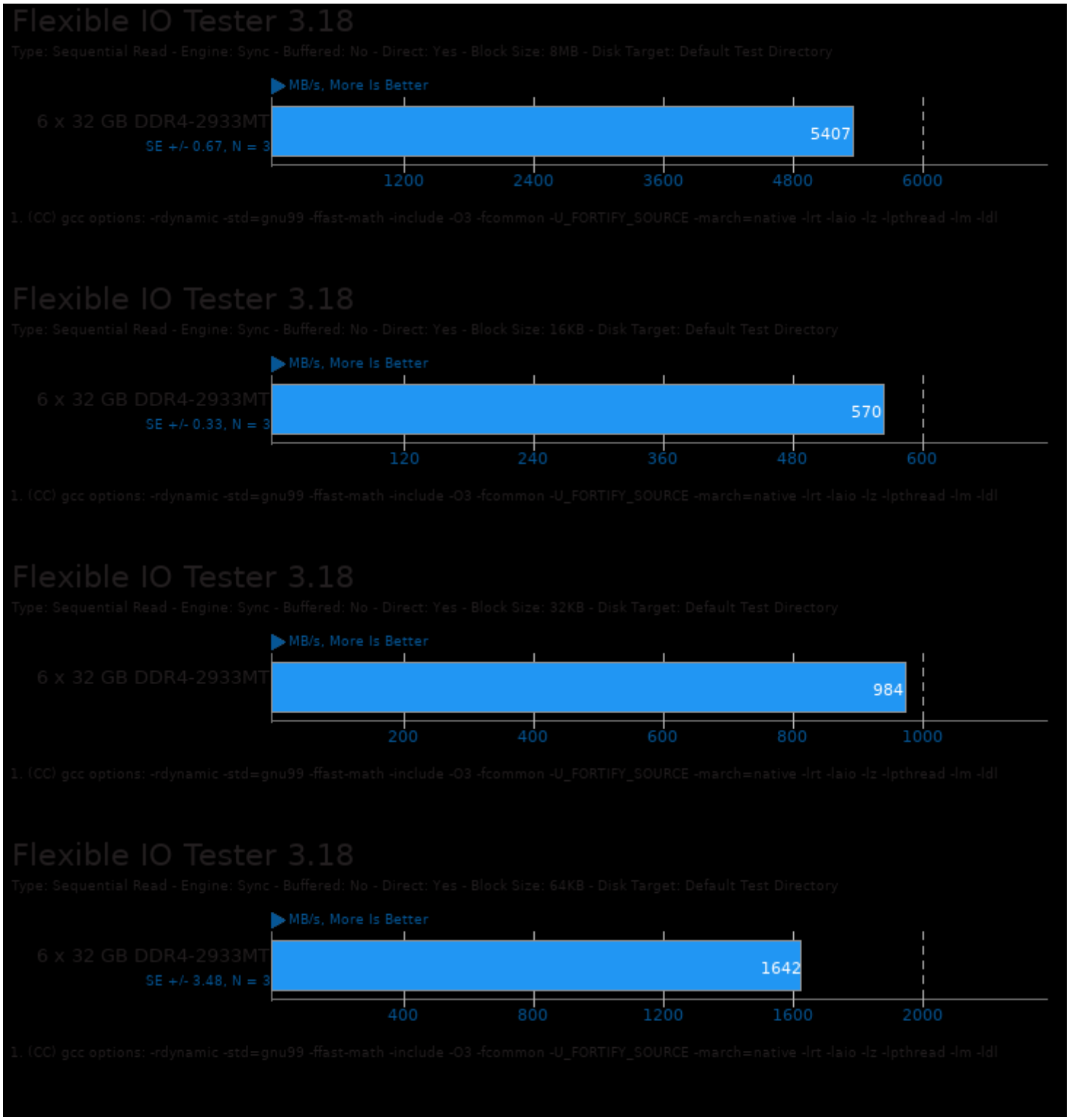


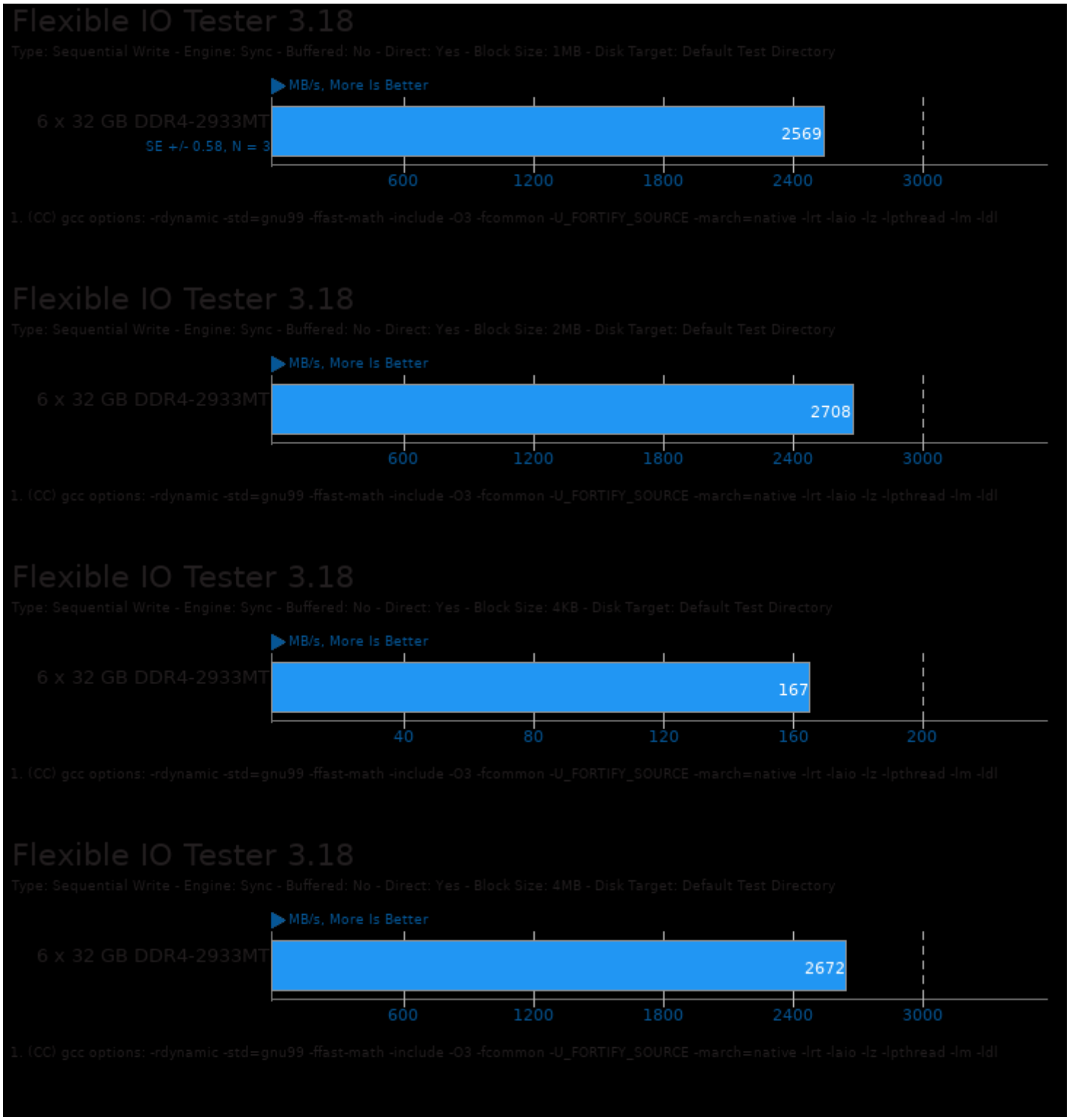
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

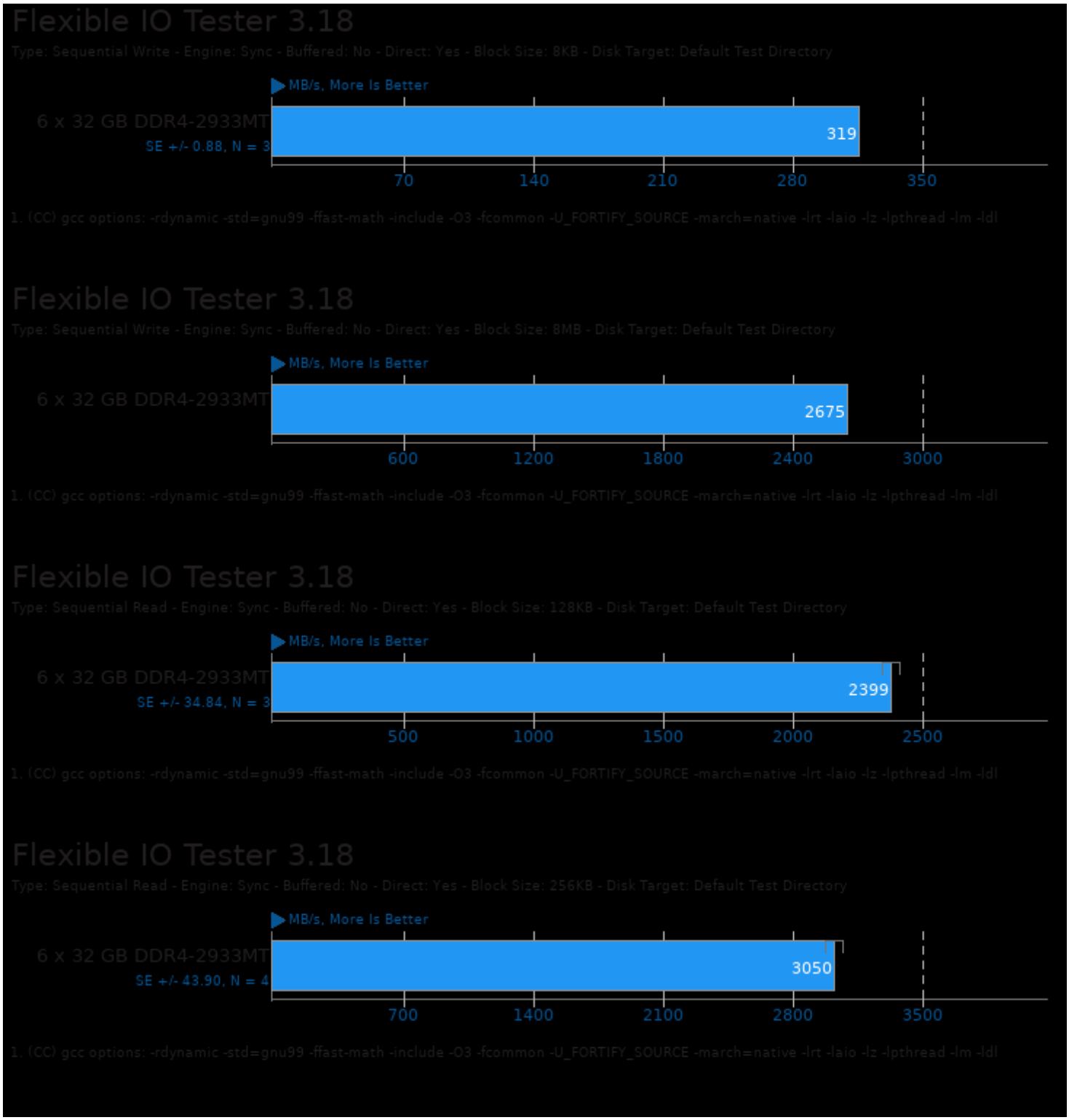

Flexible IO Tester 3.18
Type: Random Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 11.86, N = 3
3973
900
1800
2700
3600
4500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
451
100
200
300
400
500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 32KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
802
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 1.73, N = 3
1330
300
600
900
1200
1500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

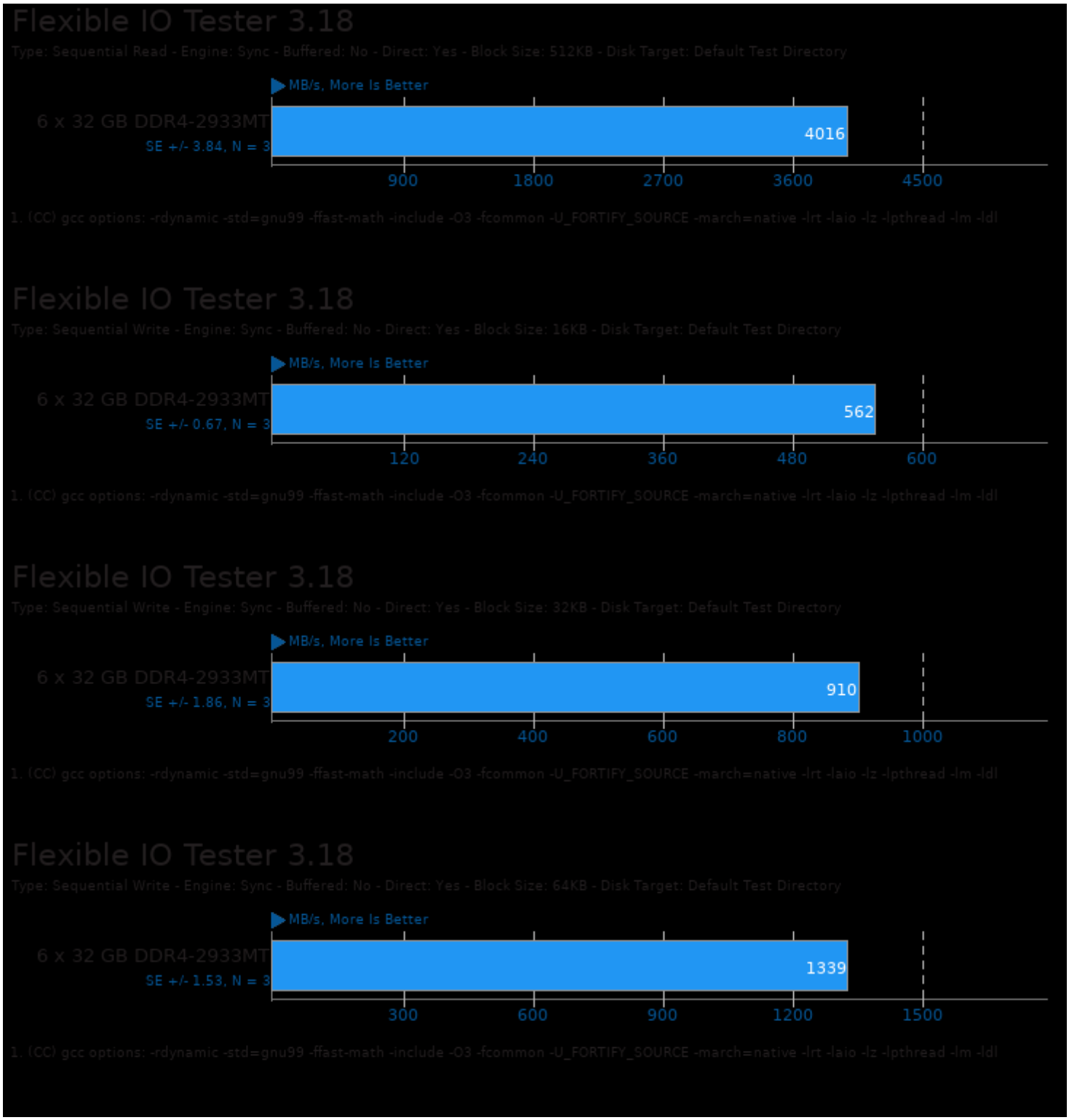

Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 128KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 7.81, N = 3
1693
400
800
1200
1600
2000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 256KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 12.39, N = 3
1984
400
800
1200
1600
2000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Random Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 12.01, N = 3
2334
500
1000
1500
2000
2500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 1.20, N = 3
4709
1000
2000
3000
4000
5000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.58, N = 3
4760
1000
2000
3000
4000
5000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
155
30
60
90
120
150
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4MB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
5144
1100
2200
3300
4400
5500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.33, N = 3
307
70
140
210
280
350
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.67, N = 3
5407
1200
2400
3600
4800
6000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.33, N = 3
570
120
240
360
480
600
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 32KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
984
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 3.48, N = 3
1642
400
800
1200
1600
2000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

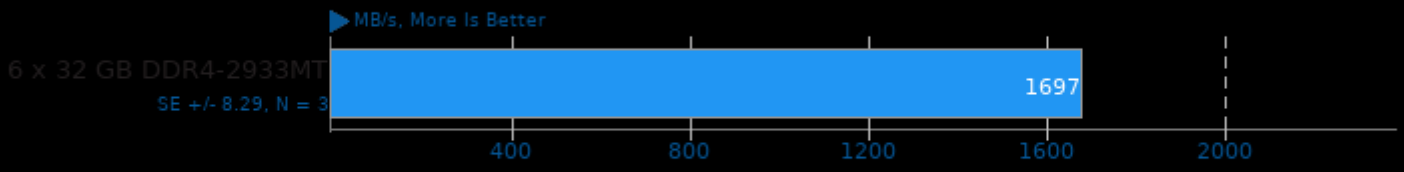

Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 1MB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.58, N = 3
2569
600
1200
1800
2400
3000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
2708
600
1200
1800
2400
3000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
167
40
80
120
160
200
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 4MB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
2672
600
1200
1800
2400
3000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 8KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.88, N = 3
319
70
140
210
280
350
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 8MB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
2675
600
1200
1800
2400
3000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 128KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 34.84, N = 3
2399
500
1000
1500
2000
2500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 256KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 43.90, N = 4
3050
700
1400
2100
2800
3500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl


Flexible IO Tester 3.18
Type: Sequential Read - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 3.84, N = 3
4016
900
1800
2700
3600
4500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 16KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.67, N = 3
562
120
240
360
480
600
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 32KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 1.86, N = 3
910
200
400
600
800
1000
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl
Flexible IO Tester 3.18
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 64KB - Disk Target: Default Test Directory
MB/s, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 1.53, N = 3
1339
300
600
900
1200
1500
1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

Flexible IO Tester 3.18

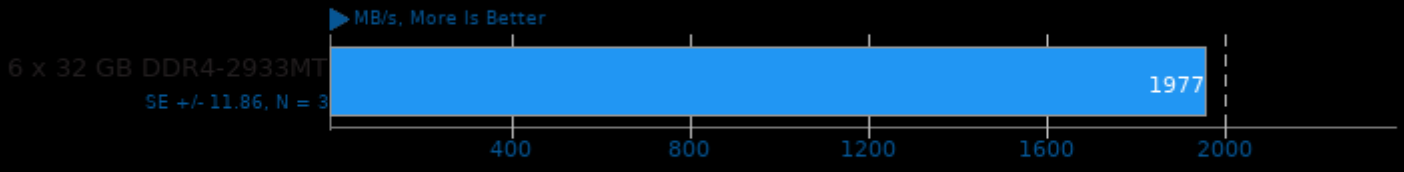
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 128KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

Flexible IO Tester 3.18

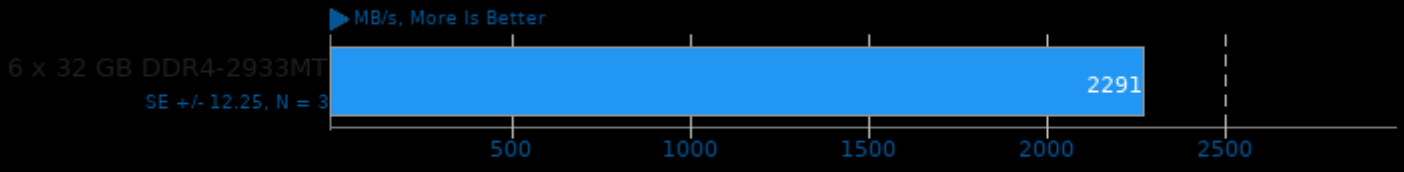
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 256KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

Flexible IO Tester 3.18

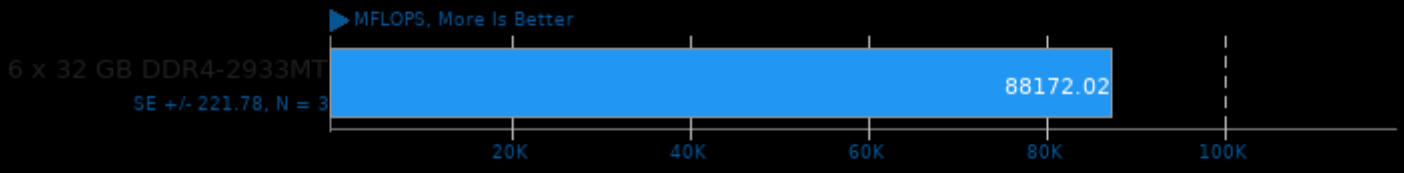
Type: Sequential Write - Engine: Sync - Buffered: No - Direct: Yes - Block Size: 512KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native -lrt -laio -lz -lpthread -lm -ldl

FFTE 7.0

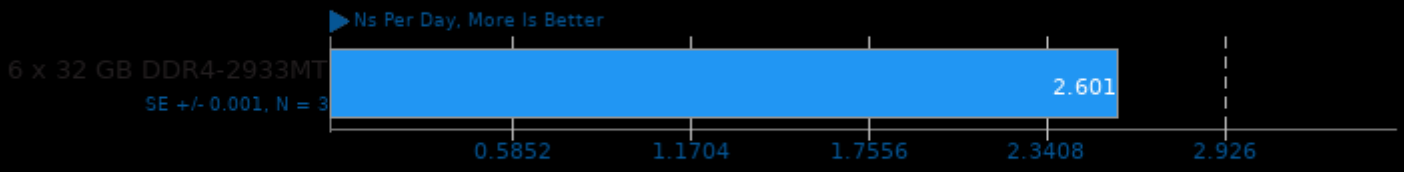
N=256, 3D Complex FFT Routine



1. (F9X) gfortran options: -O3 -fomit-frame-pointer -fopenmp

GROMACS 2020.3

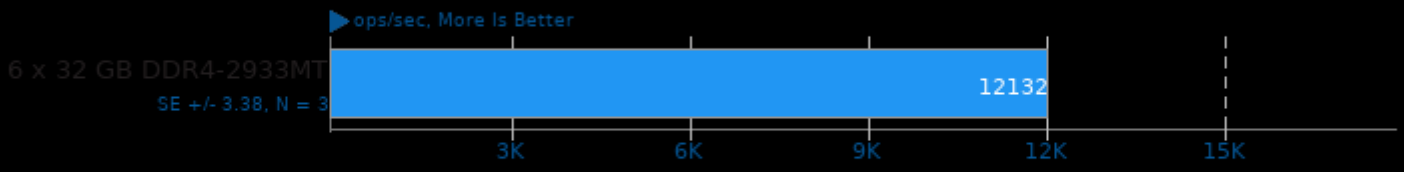
Water Benchmark



1. (CXX) g++ options: -O2 -pthread -lrt -lpthread -lm

perf-bench

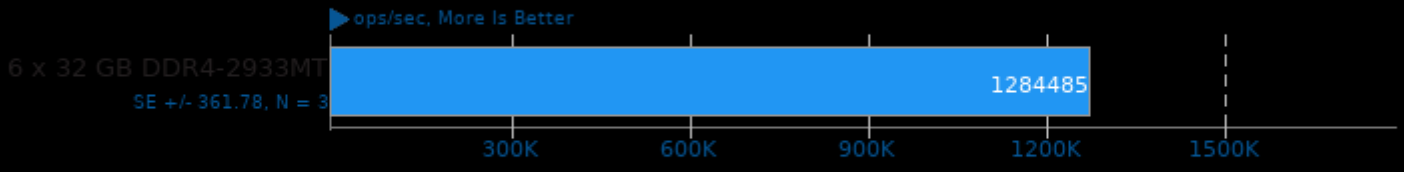
Benchmark: Epoll Wait



1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -Xlinker -lpthread -lrt -lm -ldl -lcrypto -lperl -lresolv -lcrypt -lutil -lc -lz -llzma

perf-bench

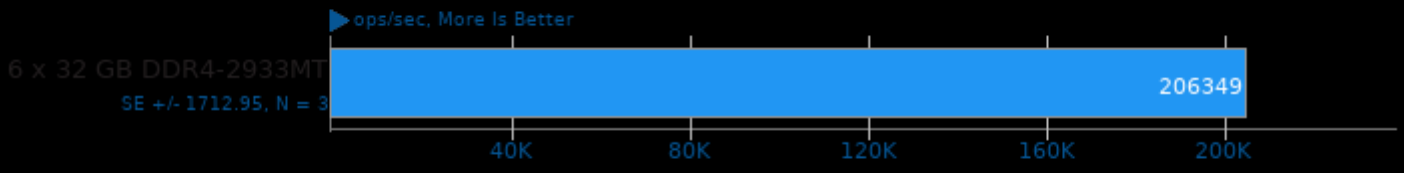
Benchmark: Futex Hash



1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -Xlinker -lpthread -lrt -lm -ldl -lcrypto -lperl -lresolv -lcrypt -lutil -lc -lz -llzma

perf-bench

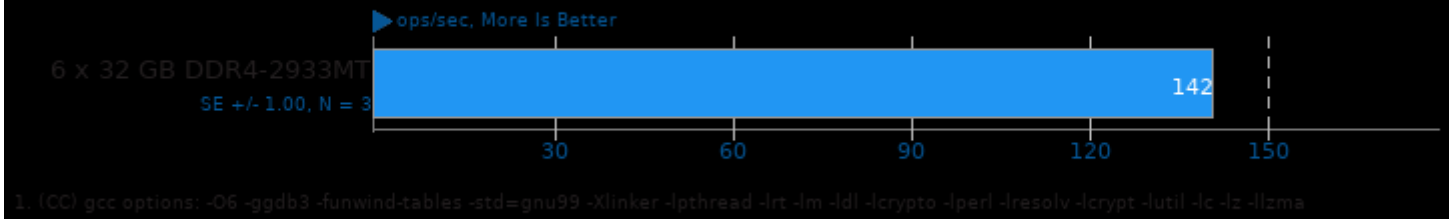
Benchmark: Sched Pipe



1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -Xlinker -lpthread -lrt -lm -ldl -lcrypto -lperl -lresolv -lcrypt -lutil -lc -lz -llzma

perf-bench

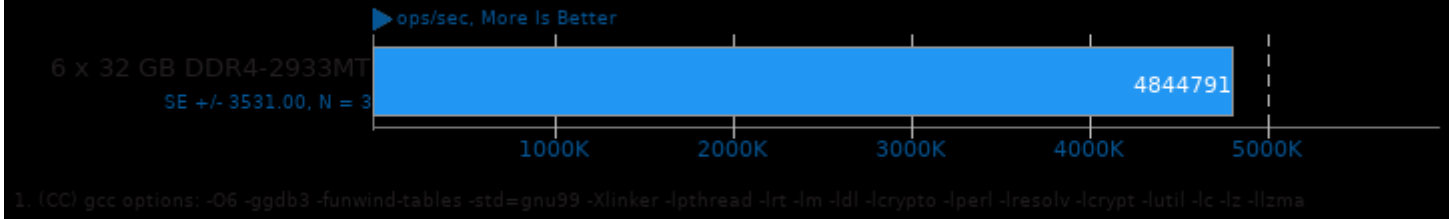
Benchmark: Futex Lock-Pi



1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -Xlinker -lpthread -lrt -lm -ldl -lcrypto -lperl -lresolv -lcrypt -lutil -lc -lz -llzma

perf-bench

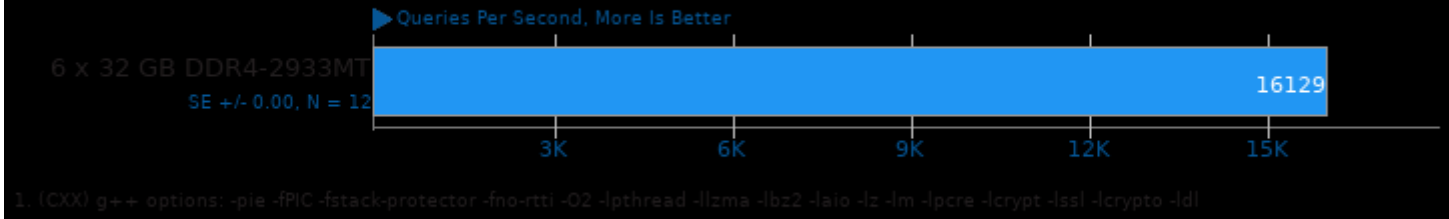
Benchmark: Syscall Basic



1. (CC) gcc options: -O6 -ggdb3 -funwind-tables -std=gnu99 -Xlinker -lpthread -lrt -lm -ldl -lcrypto -lperl -lresolv -lcrypt -lutil -lc -lz -llzma

MariaDB 10.3.8

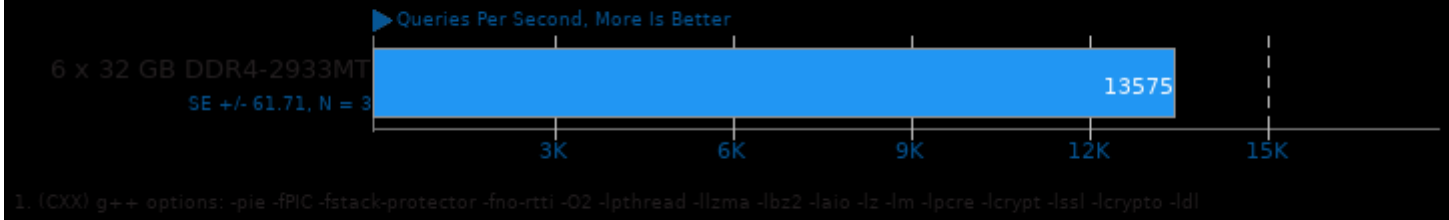
Clients: 1



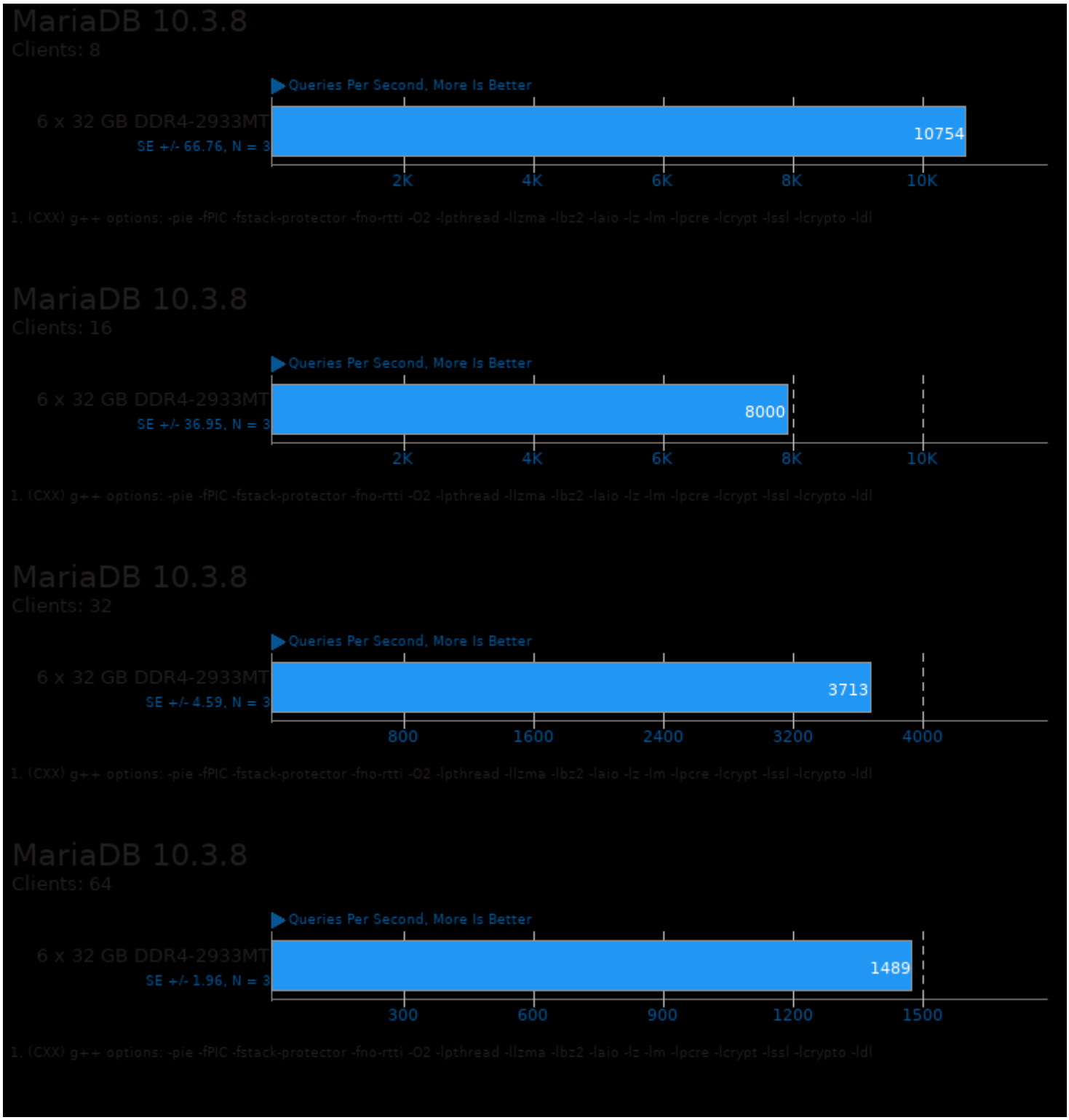
1. (CXX) g++ options: -pie -fPIC -fstack-protector -fno-rtti -O2 -lpthread -llzma -lbz2 -laio -lz -lm -lpcre -lcrypt -lssl -lcrypto -ldl

MariaDB 10.3.8

Clients: 4

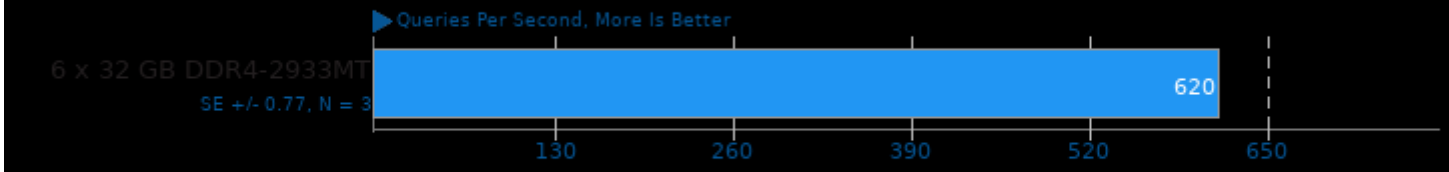


1. (CXX) g++ options: -pie -fPIC -fstack-protector -fno-rtti -O2 -lpthread -llzma -lbz2 -laio -lz -lm -lpcre -lcrypt -lssl -lcrypto -ldl


MariaDB 10.3.8
Clients: 8
Queries Per Second, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 66.76, N = 3
10754
2K
4K
6K
8K
10K
1. (CXX) g++ options: -pie -fPIC -fstack-protector -fno-rtti -O2 -lpthread -llzma -lbz2 -laio -lz -lm -lpcre -lcrypt -lssl -lcrypto -ldl
MariaDB 10.3.8
Clients: 16
Queries Per Second, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 36.95, N = 3
8000
2K
4K
6K
8K
10K
1. (CXX) g++ options: -pie -fPIC -fstack-protector -fno-rtti -O2 -lpthread -llzma -lbz2 -laio -lz -lm -lpcre -lcrypt -lssl -lcrypto -ldl
MariaDB 10.3.8
Clients: 32
Queries Per Second, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 4.59, N = 3
3713
800
1600
2400
3200
4000
1. (CXX) g++ options: -pie -fPIC -fstack-protector -fno-rtti -O2 -lpthread -llzma -lbz2 -laio -lz -lm -lpcre -lcrypt -lssl -lcrypto -ldl
MariaDB 10.3.8
Clients: 64
Queries Per Second, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 1.96, N = 3
1489
300
600
900
1200
1500
1. (CXX) g++ options: -pie -fPIC -fstack-protector -fno-rtti -O2 -lpthread -llzma -lbz2 -laio -lz -lm -lpcre -lcrypt -lssl -lcrypto -ldl

MariaDB 10.3.8

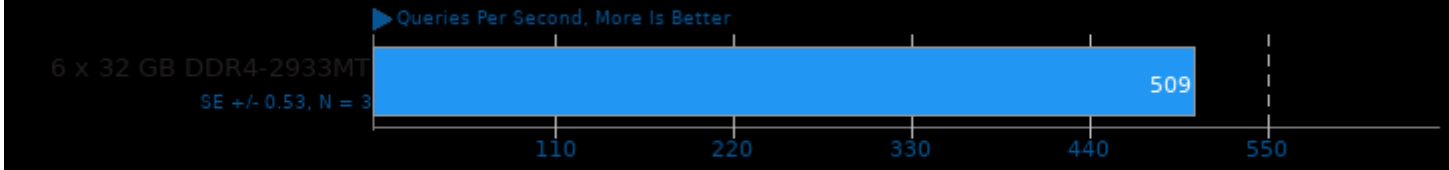
Clients: 128



1. (CXX) g++ options: -pie -fPIC -fstack-protector -fno-rtti -O2 -lpthread -llzma -lbz2 -laio -lz -lm -lpcre -lcrypt -lssl -lcrypto -ldl

MariaDB 10.3.8

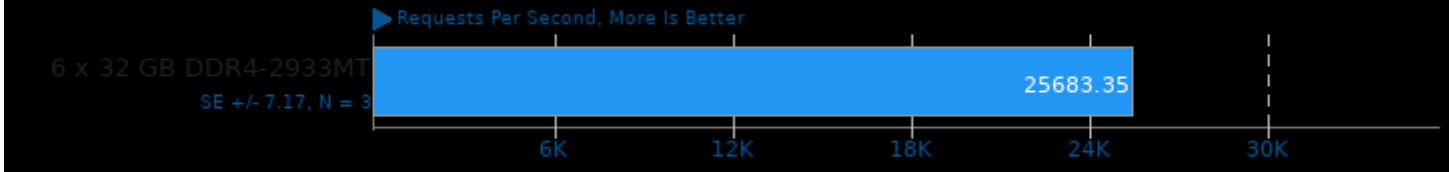
Clients: 256



1. (CXX) g++ options: -pie -fPIC -fstack-protector -fno-rtti -O2 -lpthread -llzma -lbz2 -laio -lz -lm -lpcre -lcrypt -lssl -lcrypto -ldl

Apache Benchmark 2.4.29

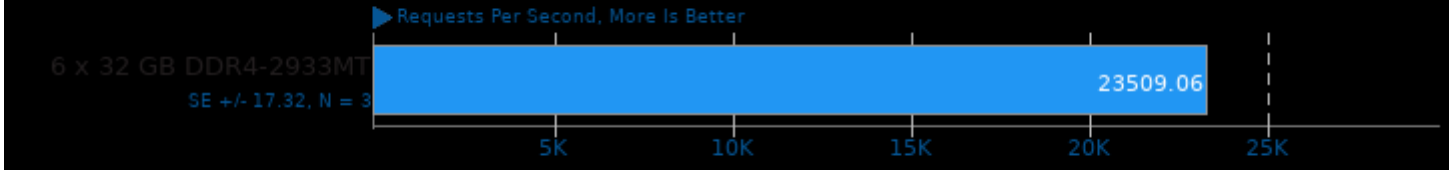
Static Web Page Serving



1. (CC) gcc options: -shared -fPIC -O2 -pthread

NGINX Benchmark 1.9.9

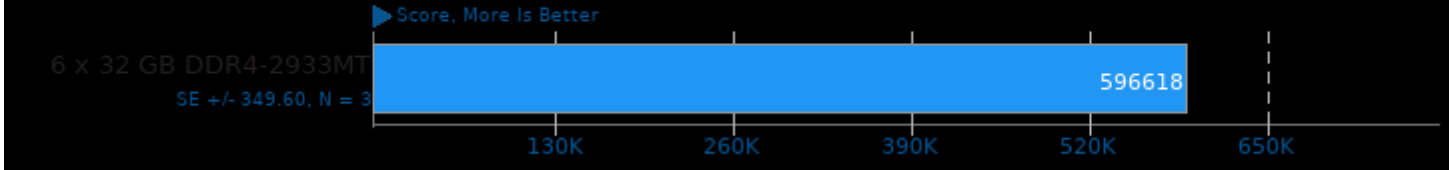
Static Web Page Serving

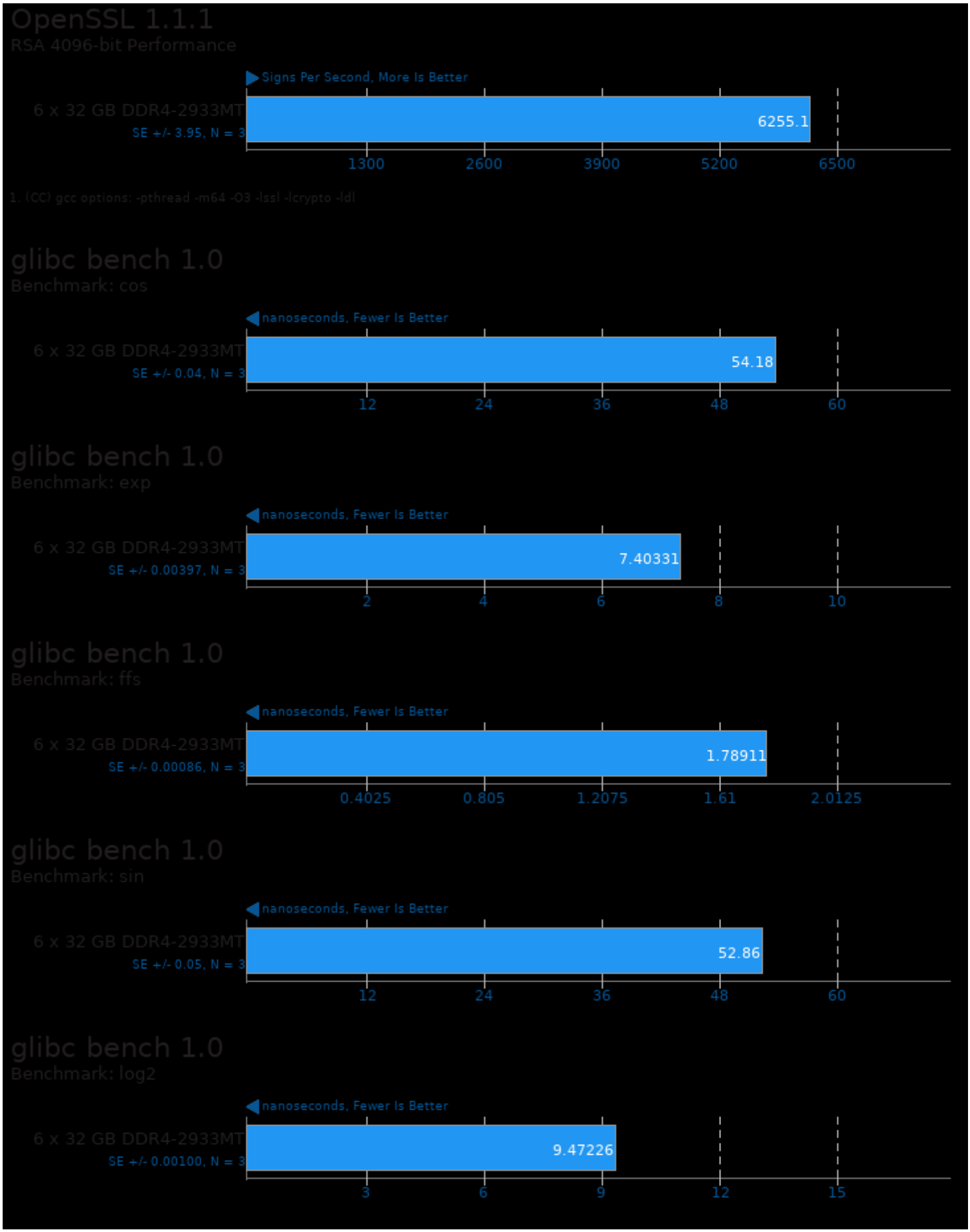


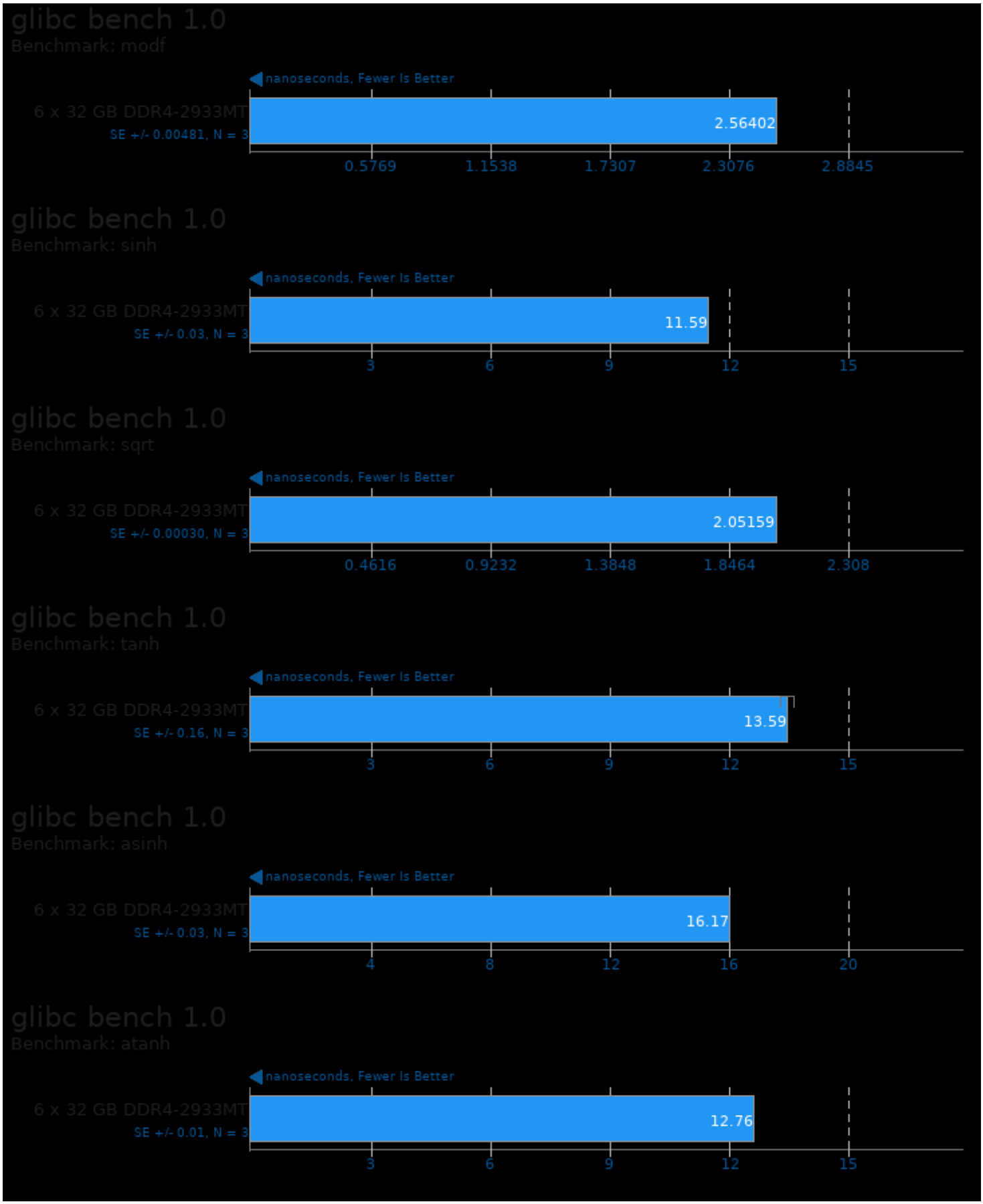
1. (CC) gcc options: -lpthread -lcrypt -lcrypto -lz -O3 -march=native

PHPBench 0.8.1

PHP Benchmark Suite

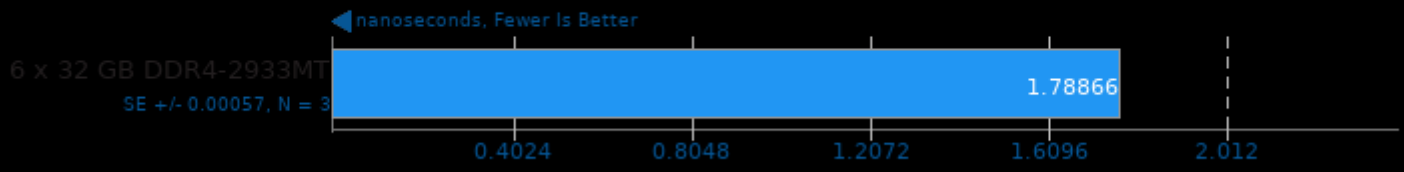



OpenSSL 1.1.1
RSA 4096-bit Performance
Signs Per Second, More Is Better
6 x 32 GB DDR4-2933MT
SE +/- 3.95, N = 3
6255.1
1300
2600
3900
5200
6500
1. (CC) gcc options: -pthread -m64 -O3 -lssl -lcrypto -ldl
glibc bench 1.0
Benchmark: cos
nanoseconds, Fewer Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.04, N = 3
54.18
12
24
36
48
60
glibc bench 1.0
Benchmark: exp
nanoseconds, Fewer Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.00397, N = 3
7.40331
2
4
6
8
10
glibc bench 1.0
Benchmark: ffs
nanoseconds, Fewer Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.00086, N = 3
1.78911
0.4025
0.805
1.2075
1.61
2.0125
glibc bench 1.0
Benchmark: sin
nanoseconds, Fewer Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.05, N = 3
52.86
12
24
36
48
60
glibc bench 1.0
Benchmark: log2
nanoseconds, Fewer Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.00100, N = 3
9.47226
3
6
9
12
15


glibc bench 1.0
Benchmark: modf
nanoseconds, Fewer Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.00481, N = 3
2.56402
0.5769
1.1538
1.7307
2.3076
2.8845
glibc bench 1.0
Benchmark: sinh
nanoseconds, Fewer Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.03, N = 3
11.59
3
6
9
12
15
glibc bench 1.0
Benchmark: sqrt
nanoseconds, Fewer Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.00030, N = 3
2.05159
0.4616
0.9232
1.3848
1.8464
2.308
glibc bench 1.0
Benchmark: tanh
nanoseconds, Fewer Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.16, N = 3
13.59
3
6
9
12
15
glibc bench 1.0
Benchmark: asinh
nanoseconds, Fewer Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.03, N = 3
16.17
4
8
12
16
20
glibc bench 1.0
Benchmark: atanh
nanoseconds, Fewer Is Better
6 x 32 GB DDR4-2933MT
SE +/- 0.01, N = 3
12.76
3
6
9
12
15

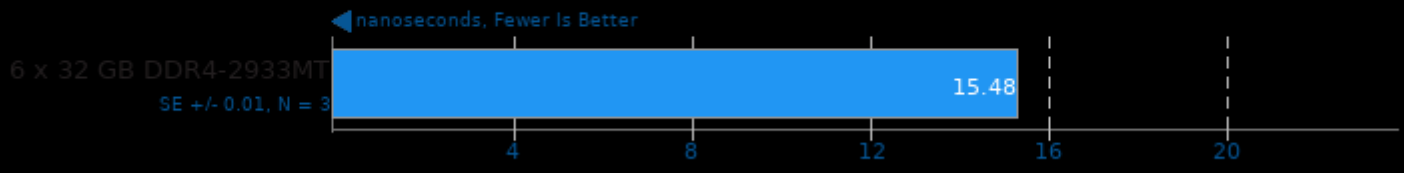
glibc bench 1.0

Benchmark: ffsll



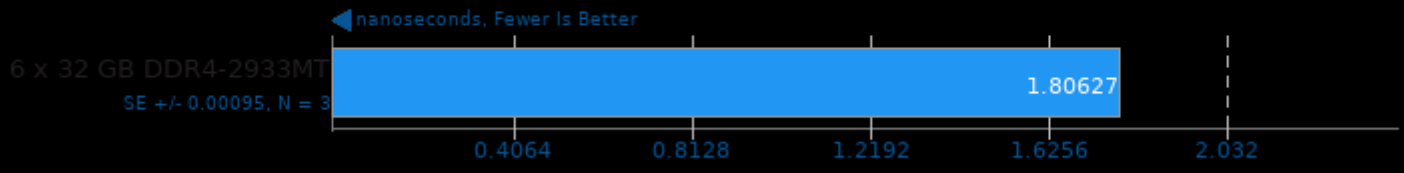
glibc bench 1.0

Benchmark: sincos



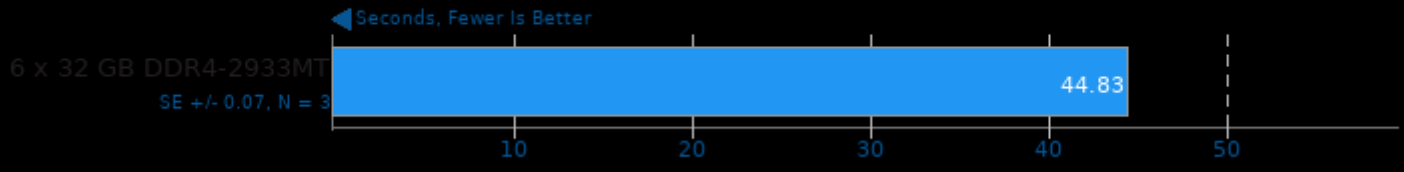
glibc bench 1.0

Benchmark: pthread_once



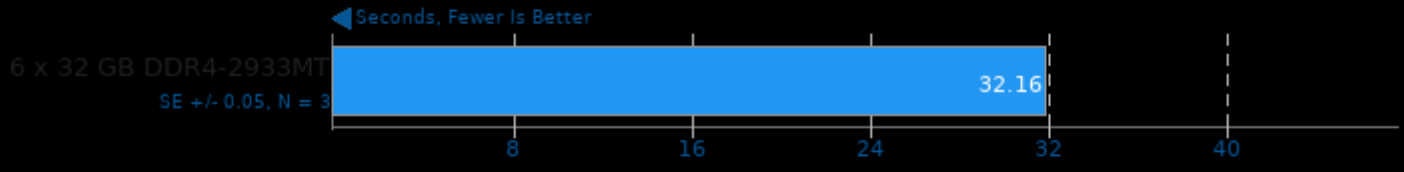
Timed PHP Compilation 7.4.2

Time To Compile



C-Ray 1.1

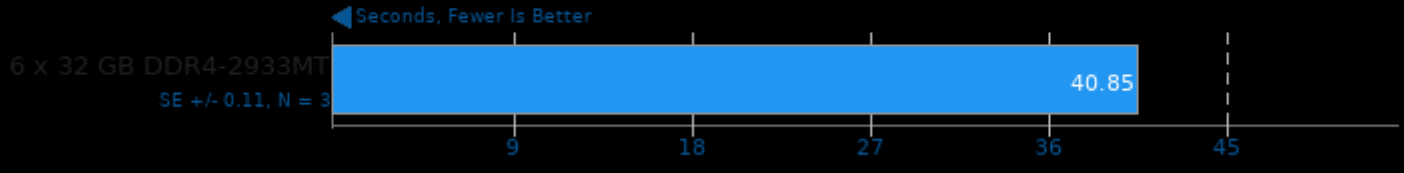
Total Time - 4K, 16 Rays Per Pixel

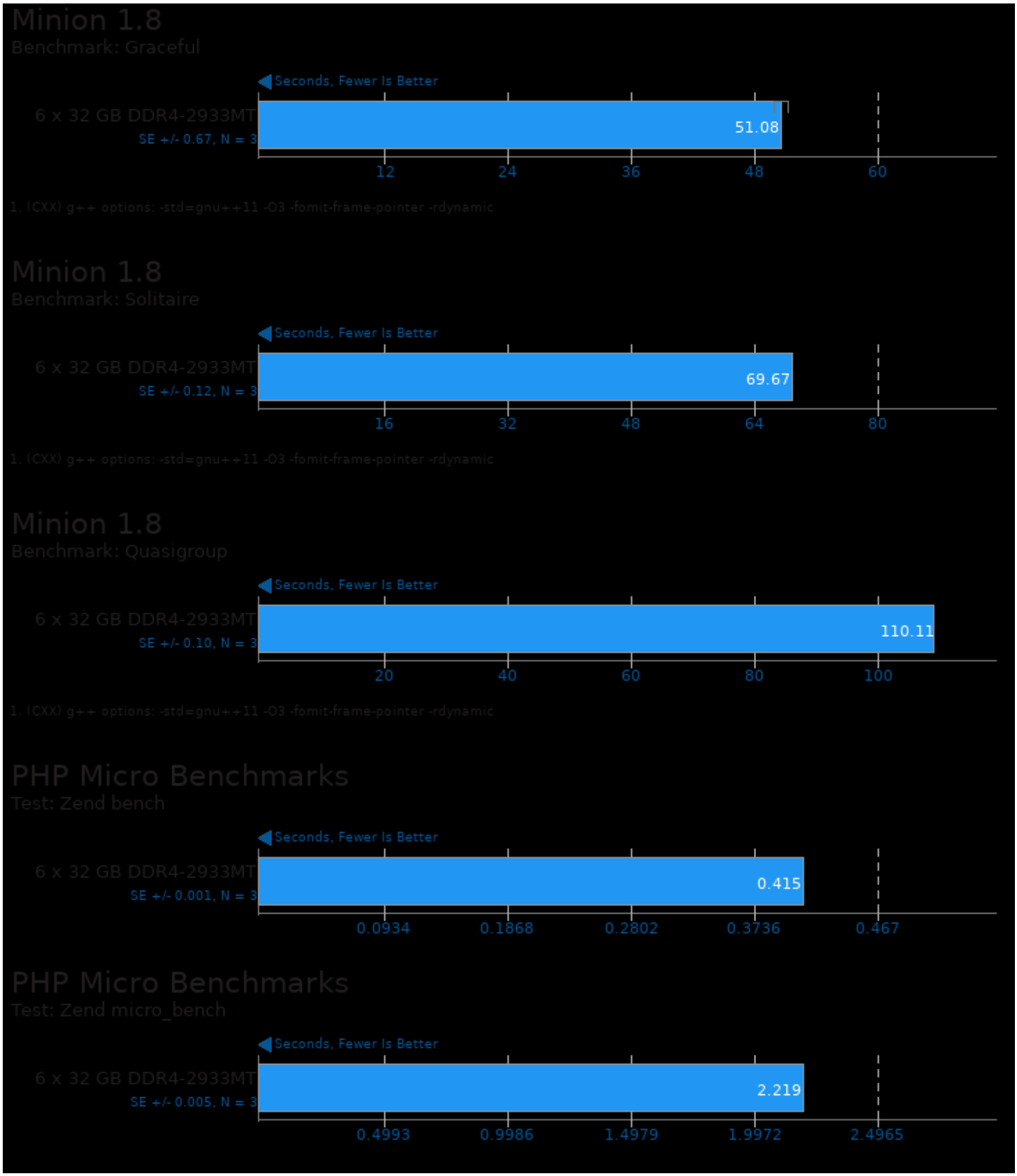


1. (CC) gcc options: -lm -lpthread -O3

Gzip Compression

Linux Source Tree Archiving To .tar.gz





This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 22:00.