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fio17052022

Intel Core i5-12600K testing with a ASUS TUF GAMING B660M-PLUS D4 (0418 BIOS) and ASUS Intel ADL-S GT1 3GB on Ubuntu 22.04 via the Phoronix Test Suite.

Test Systems:

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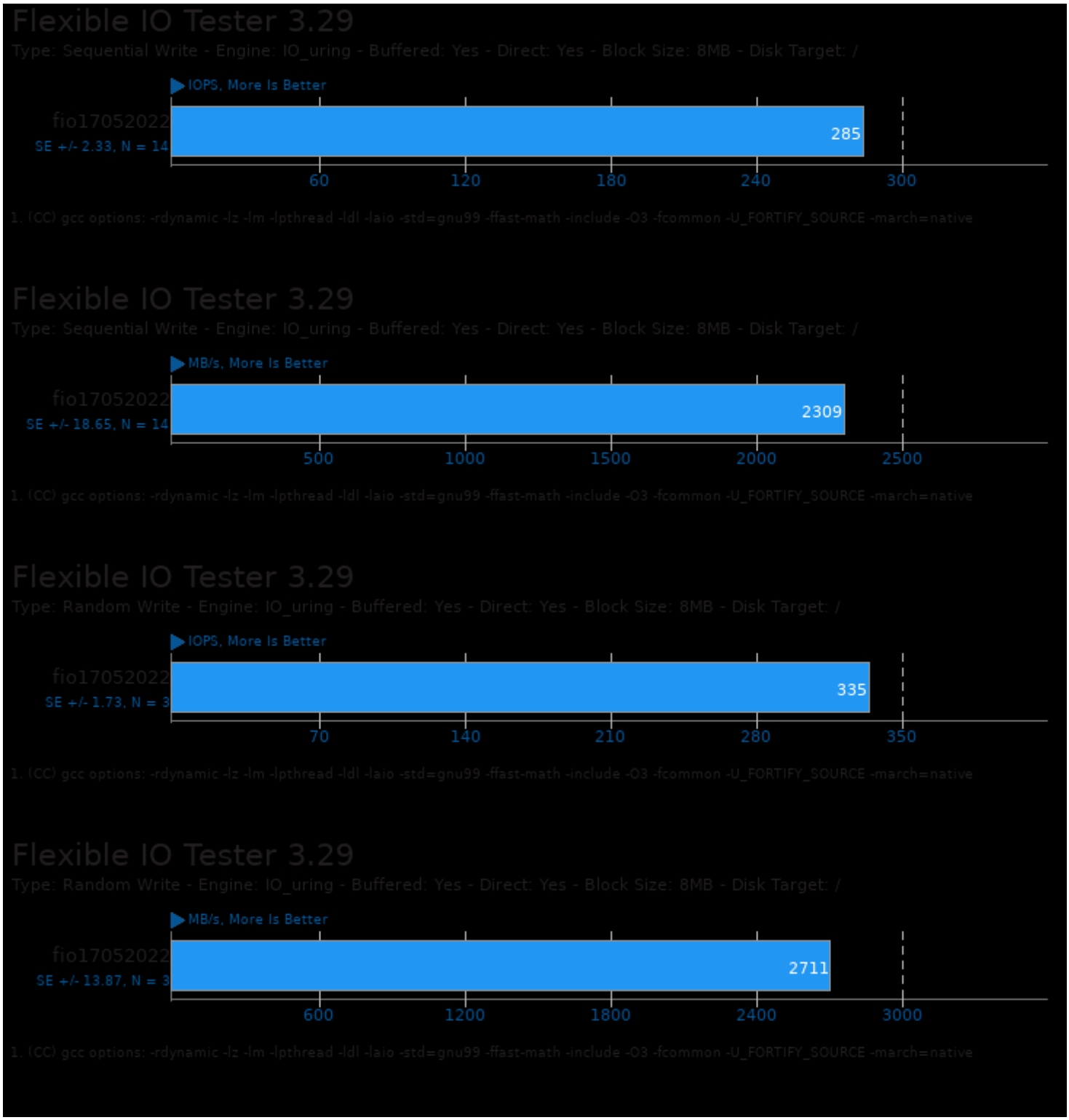
Processor: Intel Core i5-12600K @ 6.30GHz (10 Cores / 16 Threads), Motherboard: ASUS TUF GAMING B660M-PLUS D4 (0418 BIOS), Chipset: Intel Device 7aa7, Memory: 4 x 8 GB DDR4-2666MT/s, Disk: Samsung SSD 980 PRO 500GB + 1000GB Western Digital WD10EZEX-22M + 240GB Type-c + 2000GB Elements 25A1, Graphics: ASUS Intel ADL-S GT1 3GB (1450MHz), Audio: Realtek ALC897, Monitor: BenQ EW3270U, Network: Realtek RTL8125 2.5GbE

OS: Ubuntu 22.04, Kernel: 5.18.0-051800rc7-generic (x86_64), Desktop: KDE Plasma 5.24.4, Display Server: X Server 1.21.1.3, OpenGL: 4.6 Mesa 22.0.1, Vulkan: 1.2.204, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 3840x2160

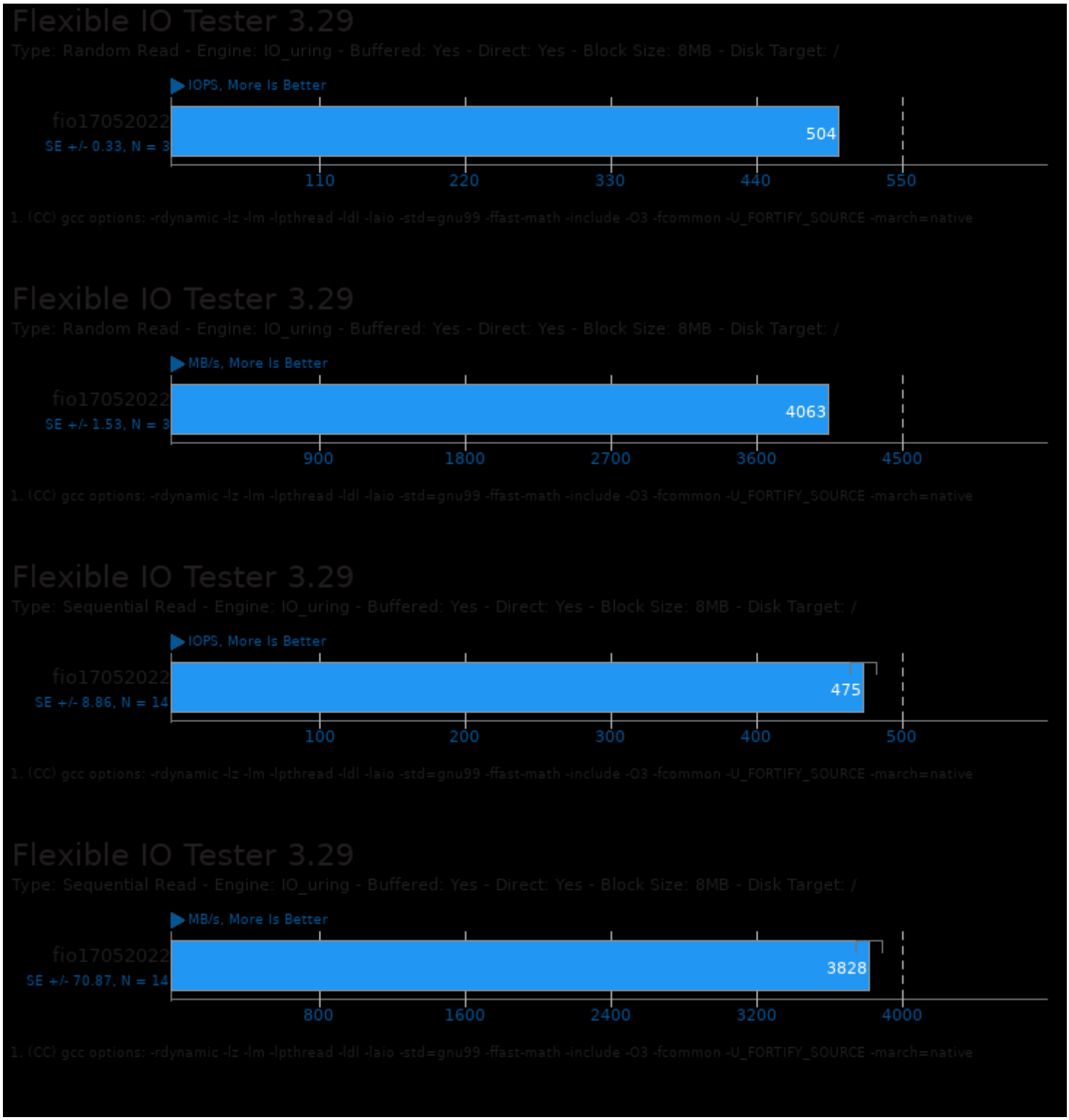
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Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-gcn/usr --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Disk Notes: NONE / errors=remount-ro,relatime,rw / Block Size: 4096
Processor Notes: Scaling Governor: intel_pstate powersave (EPP: balance_performance) - CPU Microcode: 0xf - Thermald 2.4.9
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + 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: Not affected

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Flexible IO Tester - Seq Write - IO_uring - Yes - Yes - 8MB - / (IOPS)		285
Standard Deviation		3.1%
Flexible IO Tester - Seq Write - IO_uring - Yes - Yes - 8MB - / (MB/s)		2309
Standard Deviation		3%
Flexible IO Tester - Rand Write - IO_uring - Yes - Yes - 8MB - / (IOPS)		335
Standard Deviation		0.9%
Flexible IO Tester - Rand Write - IO_uring - Yes - Yes - 8MB - / (MB/s)		2711
Standard Deviation		0.9%
Flexible IO Tester - Rand Read - IO_uring - Yes - Yes - 8MB - / (IOPS)		504
Standard Deviation		0.1%
Flexible IO Tester - Rand Read - IO_uring - Yes - Yes - 8MB - / (MB/s)		4063
Standard Deviation		0.1%
Flexible IO Tester - Seq Read - IO_uring - Yes - Yes - 8MB - / (IOPS)		475
Standard Deviation		7%
Flexible IO Tester - Seq Read - IO_uring - Yes - Yes - 8MB - / (MB/s)		3828
Standard Deviation		6.9%


Flexible IO Tester 3.29
Type: Sequential Write - Engine: IO_uring - Buffered: Yes - Direct: Yes - Block Size: 8MB - Disk Target: /
IOPS, More Is Better
fio17052022
SE +/- 2.33, N = 14
285
60
120
180
240
300
1. (CC) gcc options: -rdynamic -lz -lm -lpthread -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.29
Type: Sequential Write - Engine: IO_uring - Buffered: Yes - Direct: Yes - Block Size: 8MB - Disk Target: /
MB/s, More Is Better
fio17052022
SE +/- 18.65, N = 14
2309
500
1000
1500
2000
2500
1. (CC) gcc options: -rdynamic -lz -lm -lpthread -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.29
Type: Random Write - Engine: IO_uring - Buffered: Yes - Direct: Yes - Block Size: 8MB - Disk Target: /
IOPS, More Is Better
fio17052022
SE +/- 1.73, N = 3
335
70
140
210
280
350
1. (CC) gcc options: -rdynamic -lz -lm -lpthread -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.29
Type: Random Write - Engine: IO_uring - Buffered: Yes - Direct: Yes - Block Size: 8MB - Disk Target: /
MB/s, More Is Better
fio17052022
SE +/- 13.87, N = 3
2711
600
1200
1800
2400
3000
1. (CC) gcc options: -rdynamic -lz -lm -lpthread -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 10:32.