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clang-5.14.2

AMD Ryzen 7 2700 Eight-Core testing with a MSI B450 TOMAHAWK (MS-7C02) v1.0 (1.H5 BIOS) and ASUS AMD Radeon RX 470/480/570/570X/580/580X/590 8GB on Arch rolling via the Phoronix Test Suite.

Test Systems:

5.14.2-xanmod1-clang

Processor: AMD Ryzen 7 2700 Eight-Core @ 3.20GHz (8 Cores / 16 Threads), Motherboard: MSI B450 TOMAHAWK (MS-7C02) v1.0 (1.H5 BIOS), Chipset: AMD 17h, Memory: 16GB, Disk: 1000GB Western Digital WDS100T3X0C-00SJG0 + 256GB Samsung SSD 850 + 512GB Samsung SSD 850, Graphics: ASUS AMD Radeon RX 470/480/570/570X/580/580X/590 8GB (1310/2000MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: DELL P2414H + LG Ultra HD, Network: Realtek RTL8111/8168/8411 + Broadcom BCM4360 802.11ac

OS: Arch rolling, Kernel: 5.14.2-xanmod1-1-edge (x86_64), Display Server: X Server 1.20.10 + Wayland, OpenGL: 4.6 Mesa 21.2.1 (LLVM 12.0.1), OpenCL: OpenCL 2.1 AMD-APP (3302.5), Vulkan: 1.2.182, Compiler: GCC 11.1.0 + Clang 12.0.1 + LLVM 12.0.1, File-System: ext4, Screen Resolution: 3840x1080

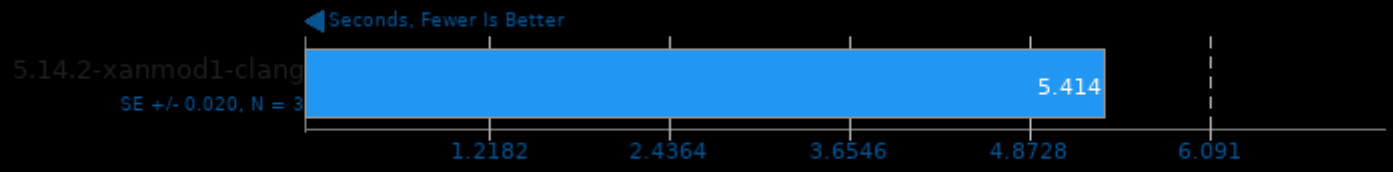
clang-5.14.2

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0x800820d
Security Notes: itlb_multihit: Not affected + 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 Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	5.14.2-xanmod1-clang
Hackbench - 1 - Thread (sec)	5.414
Standard Deviation	0.6%
Hackbench - 2 - Thread (sec)	7.561
Standard Deviation	0.4%
Hackbench - 4 - Thread (sec)	13.605
Standard Deviation	0.4%
Hackbench - 8 - Thread (sec)	25.736
Standard Deviation	0.2%
Hackbench - 1 - Process (sec)	5.159
Standard Deviation	0.7%
Hackbench - 16 - Thread (sec)	54.456
Standard Deviation	2.7%
Hackbench - 2 - Process (sec)	7.227
Standard Deviation	0.4%
Hackbench - 4 - Process (sec)	13.001
Standard Deviation	0.5%
Hackbench - 8 - Process (sec)	25.033
Standard Deviation	0.6%
Hackbench - 16 - Process (sec)	52.133
Standard Deviation	0.3%
Hackbench - 32 - Process (sec)	115.311
Standard Deviation	1.4%
Schbench - 2 - 8 (usec, 99.9th Latency Percentile)	12093
Standard Deviation	8%
Schbench - 4 - 8 (usec, 99.9th Latency Percentile)	26630
Standard Deviation	5.8%
Schbench - 6 - 8 (usec, 99.9th Latency Percentile)	37952
Standard Deviation	0.7%
Schbench - 8 - 8 (usec, 99.9th Latency Percentile)	45589
Standard Deviation	0.6%
Schbench - 16 - 8 (usec, 99.9th Latency Percentile)	80051
Standard Deviation	2.4%

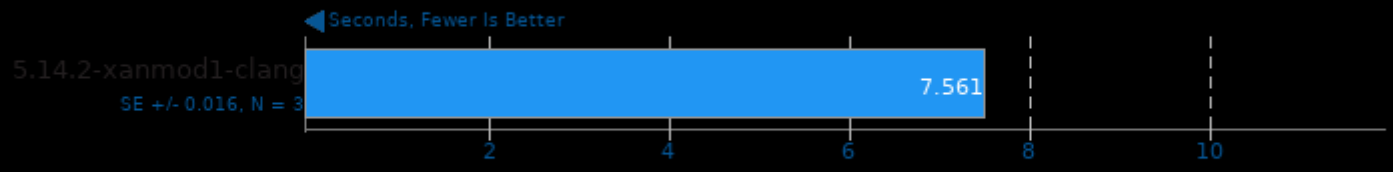
clang-5.14.2

Hackbench
Count: 1 - Type: Thread



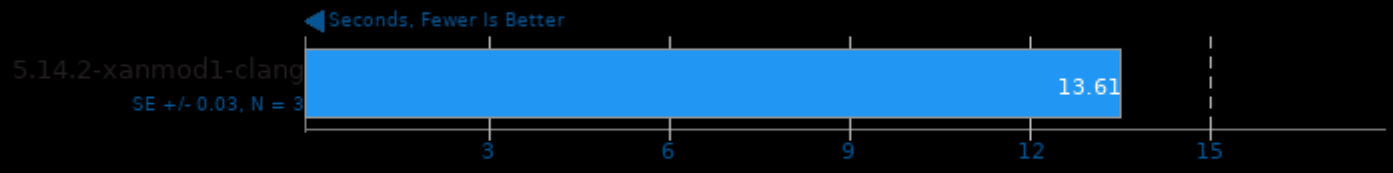
1. (CC) gcc options: -lpthread

Hackbench
Count: 2 - Type: Thread



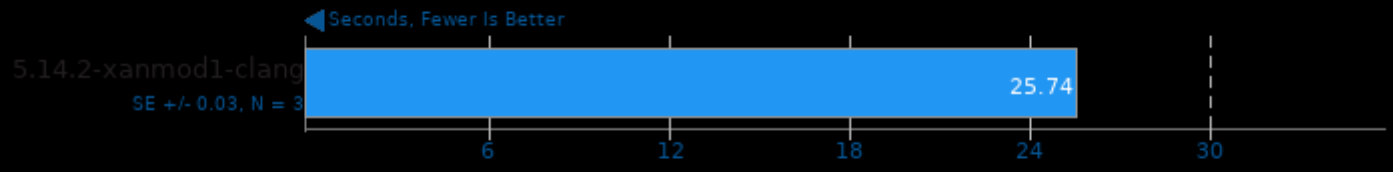
1. (CC) gcc options: -lpthread

Hackbench
Count: 4 - Type: Thread



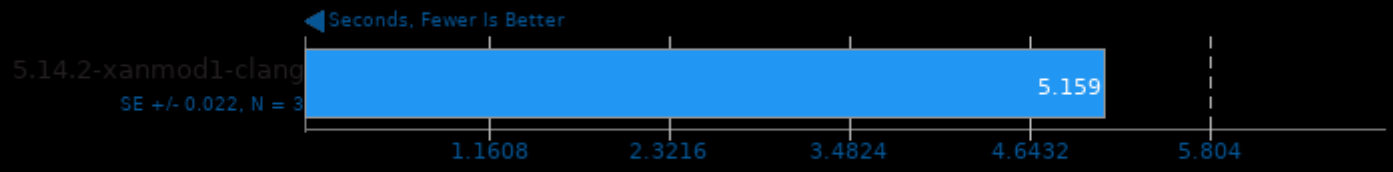
1. (CC) gcc options: -lpthread

Hackbench
Count: 8 - Type: Thread



1. (CC) gcc options: -lpthread

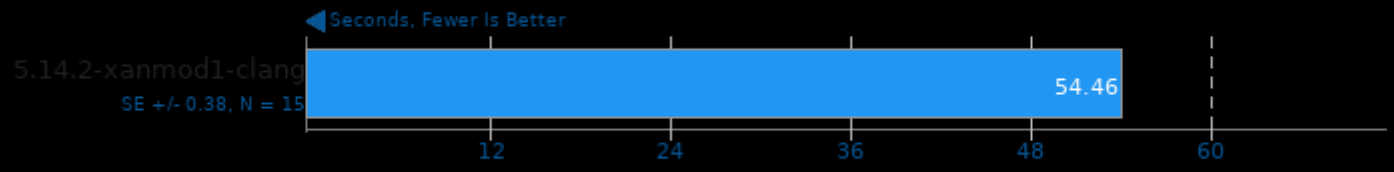
Hackbench
Count: 1 - Type: Process



1. (CC) gcc options: -lpthread

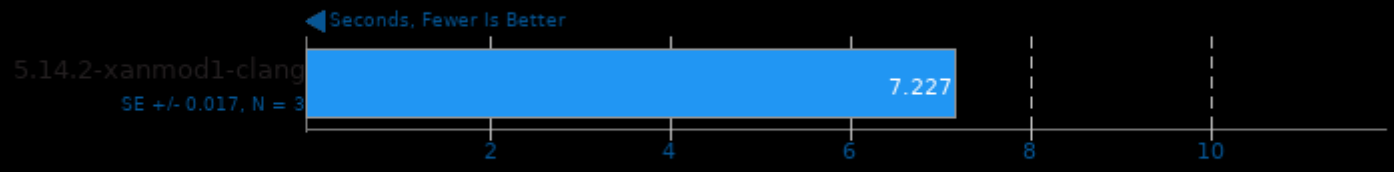
clang-5.14.2

Hackbench
Count: 16 - Type: Thread



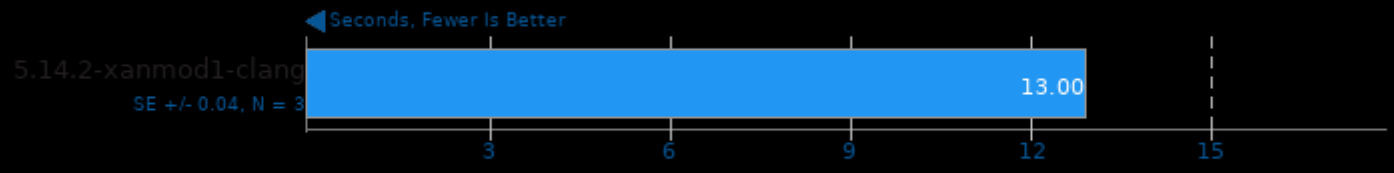
1. (CC) gcc options: -lpthread

Hackbench
Count: 2 - Type: Process



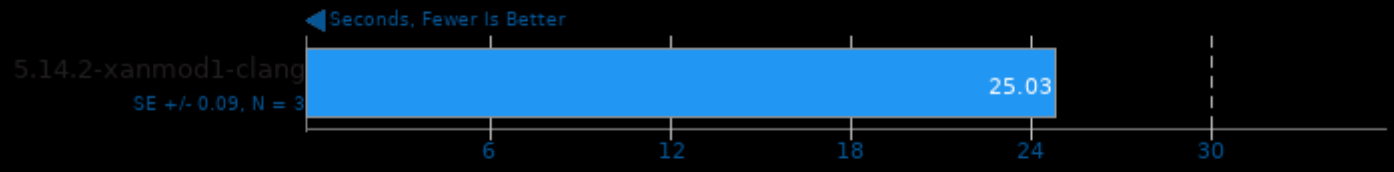
1. (CC) gcc options: -lpthread

Hackbench
Count: 4 - Type: Process



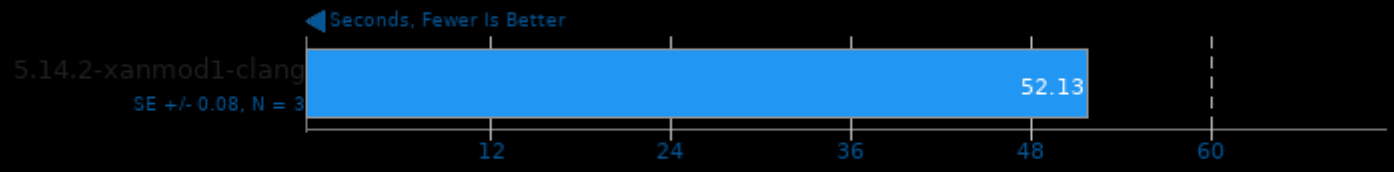
1. (CC) gcc options: -lpthread

Hackbench
Count: 8 - Type: Process



1. (CC) gcc options: -lpthread

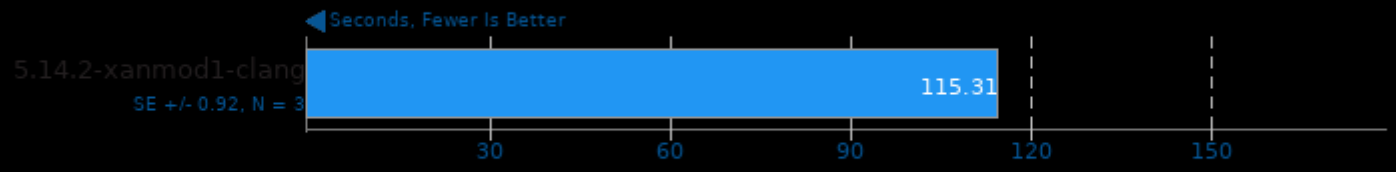
Hackbench
Count: 16 - Type: Process



1. (CC) gcc options: -lpthread

Hackbench

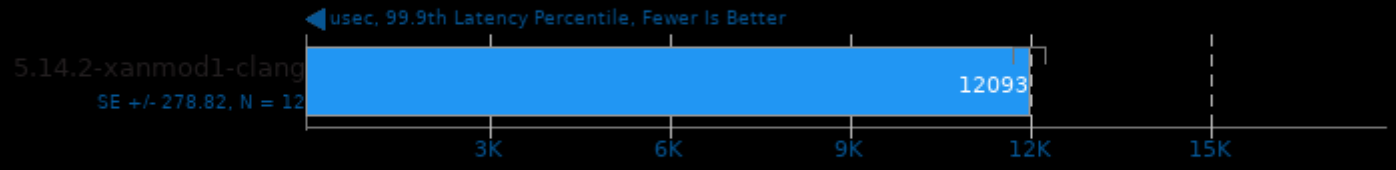
Count: 32 - Type: Process



1. (CC) gcc options: -lpthread

Schbench

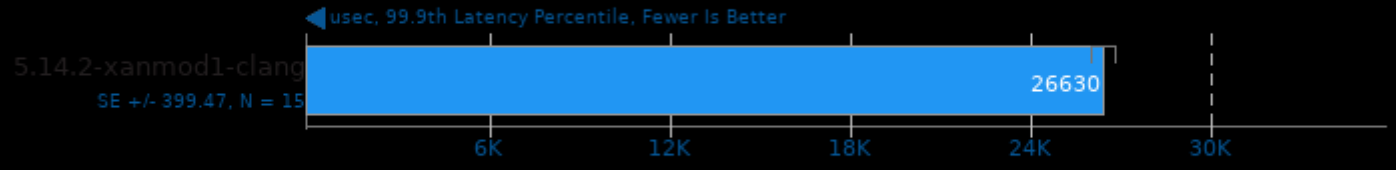
Message Threads: 2 - Workers Per Message Thread: 8



1. (CC) gcc options: -O2 -lpthread

Schbench

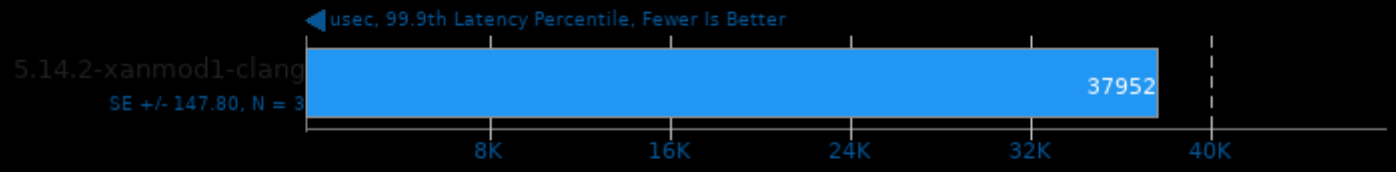
Message Threads: 4 - Workers Per Message Thread: 8



1. (CC) gcc options: -O2 -lpthread

Schbench

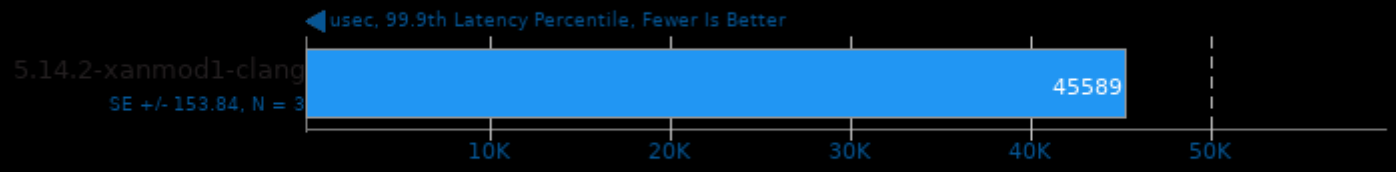
Message Threads: 6 - Workers Per Message Thread: 8



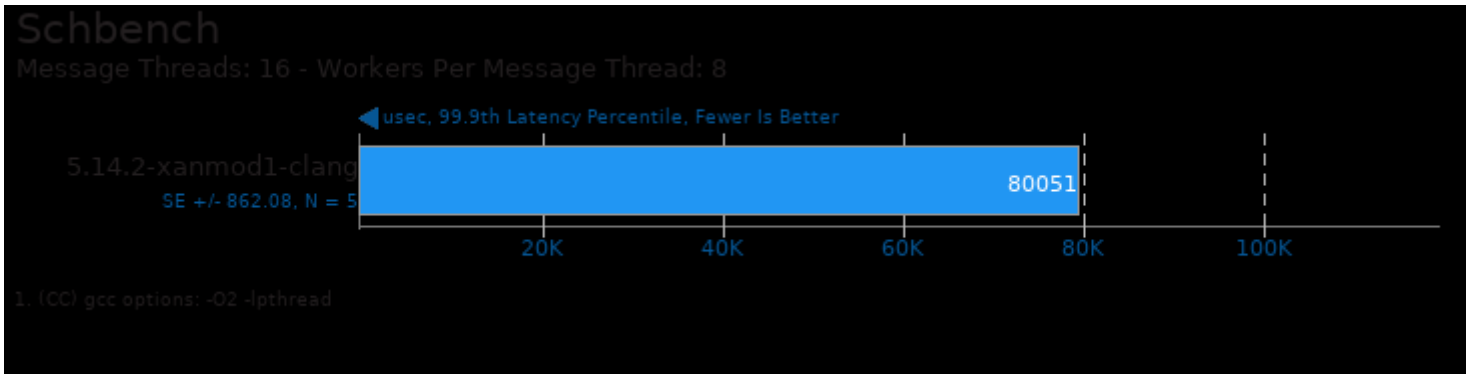
1. (CC) gcc options: -O2 -lpthread

Schbench

Message Threads: 8 - Workers Per Message Thread: 8



1. (CC) gcc options: -O2 -lpthread



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