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Kernel Bench

AMD Ryzen 7 PRO 5850U testing with a LENOVO 20X7003WFR (R1KET37W 1.22 BIOS) and AMD Cezanne 1GB on Gentoo 2.9 via the Phoronix Test Suite.

Automated Executive Summary

ClearLinux 36070 GCC 11.2 had the most wins, coming in first place for 25% of the tests.

Test Systems:

Ubuntu 21.10 CC 11.2 kver=5.16

Processor: AMD Ryzen 7 PRO 5850U @ 1.90GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 16GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK Device 7961

OS: Ubuntu 21.10, Kernel: 5.16.14-051614-generic (x86_64), Desktop: MATE 1.26.0, Display Server: X Server 1.20.13,

OpenGL: 4.6 Mesa 21.2.6 (LLVM 12.0.1), Vulkan: 1.2.182, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 1920x1080

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-ZPT0kp/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-ZPT0kp/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
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - Platform Profile: balanced - CPU Microcode: 0xa50000c - ACPI Profile: balanced
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

OpenMandriva znver1 GCC 11.2 kver=5.16

Processor: AMD Ryzen 7 PRO 5850U @ 1.90GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 16GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: OpenMandrivaLinux 4.3, Kernel: 5.16.7-desktop-1omv4003 (x86_64), Desktop: KDE Plasma 5.23.5, Display Server: X Server 1.21.1.3, OpenGL: 4.6 Mesa 21.3.7 (LLVM 13.0.0), Vulkan: 1.2.195, Compiler: Clang 13.0.0 + GCC 11.2.0 20210728 + LLVM 13.0.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: dm_mod.use_blk_mq=1 - Transparent Huge Pages: always
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - Platform Profile: balanced - CPU Microcode: 0xa50000c - ACPI Profile: balanced
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 Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

FreeBSD 13.1 Beta1 Clang 13 Default package

Processor: AMD Ryzen 7 PRO 5850U @ 1.90GHz (16 Cores), Motherboard: LENOVO 20X7003WFR ThinkPad L15 Gen 2a, Chipset: AMD [AMD] Renoir/Cezanne Root Complex, Memory: 16GB, Disk: Generic NVMe Device, Graphics: AMD RENOIR 1GB, Audio: ATI (0x1637) HDA

OS: FreeBSD, Kernel: 13.1-STABLE (x86_64), Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 21.3.7 (LLVM 13.0.1), Compiler: Clang 13.0.0 + GCC 10.3.0, File-System: zfs, Screen Resolution: 1920x1080

Manjaro GCC 11.2 KVER=5.16

Processor: AMD Ryzen 7 PRO 5850U @ 1.90GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: ManjaroLinux 21.2.5, Kernel: 5.16.14-1-MANJARO (x86_64), Desktop: KDE Plasma 5.24.3, Display Server: X Server 1.21.1.3, OpenGL: 4.6 Mesa 21.3.7 (LLVM 13.0.1), Vulkan: 1.2.195, Compiler: GCC 11.2.0 + Clang 13.0.1 + LLVM 13.0.1, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - Platform Profile: balanced - CPU Microcode: 0xa50000c - ACPI Profile: balanced
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on

RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Fedora 36 pre-ver GCC 12 kver=5.17

Processor: AMD Ryzen 7 PRO 5850U @ 1.90GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Fedora Linux 36, Kernel: 5.17.0-300.fc36.x86_64 (x86_64), Desktop: MATE 1.26.0, Display Server: X Server 1.20.14, OpenGL: 4.6 Mesa 21.3.8 (LLVM 13.0.1), Compiler: GCC 12.0.1 20220308, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: DEBUGINFOD_URLS=https://debuginfod.fedoraproject.org/
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa50000c
Security Notes: SELinux + 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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

ClearLinux 36070 GCC 11.2

Processor: AMD Ryzen 7 PRO 5850U @ 1.90GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir Root Complex, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD RENOIR 1GB (2000/400MHz), Audio: AMD Device 1637, Network: Realtek RTL8111/8168/8411 + MEDIATEK Device 7961

OS: Clear Linux OS 36070, Kernel: 5.16.17-1136.native (x86_64), Desktop: GNOME Shell 42.0, Display Server: X Server 1.21.1.3, OpenGL: 4.6 Mesa 22.0.0 (LLVM 13.0.0 DRM 3.44), Vulkan: 1.3.204, Compiler: GCC 11.2.1 20220322 releases/gcc-11.2.0-884-gf45603f39b + Clang 13.0.0 + LLVM 13.0.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Environment Notes: FFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -Wl,--enable-new-dtags" CXXFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -Wl,-sort-common -Wl,--enable-new-dtags -mtune=native -fvisibility-inlines-hidden -Wl,--enable-new-dtags" MESA_GLSL_CACHE_DISABLE=0 FCFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -Wl,-sort-common -Wl,--enable-new-dtags" CFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -Wl,-sort-common -Wl,--enable-new-dtags -mtune=native" THEANO_FLAGS="floatX=float32,openmp=true,gcc.cxxflags="-ftree-vectorize -mavx""
Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --disable-werror --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-clocale=gnu --enable-default-pie --enable-gnu-indirect-function --enable-host-shared --enable-languages=c,c++,fortran,go,jit --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=x86-64-v3 --with-gcc-major-version-only --with-glibc-version=2.35 --with-gnu-ld --with-isl --with-pic --with-ppl=yes --with-tune=skylake-avx512
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - Platform Profile: balanced - CPU Microcode: 0xa50000c - ACPI Profile: balanced
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Gentoo Musl Stable W:znver3-O2

Processor: AMD Ryzen 7 PRO 5850U @ 1.90GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK Device 7961

OS: Gentoo/Linux, Kernel: 5.15.26-gentoo-x86_64 (x86_64), Display Server: X Server 1.21.1.3, Compiler: GCC 11.2.1 20220115 + Clang 13.0.1 + LLVM 13.0.1, File-System: btrfs, Screen Resolution: 1920x1080

Compiler Notes: --bindir=/usr/x86_64-gentoo-linux-musl/gcc-bin/11.2.1 --build=x86_64-gentoo-linux-musl --datadir=/usr/share/gcc-data/x86_64-gentoo-linux-musl/11.2.1 --disable-cet --disable-esp --disable-fixed-point --disable-libada --disable-libsanitizer --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-libvtv --disable-multilib --disable-nls --disable-systemtap --disable-valgrind-annotations --disable-vtable-verify --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-default-pie --enable-default-ssp --enable-languages=c,c++,fortran --enable-libgomp --enable-libstdcxx-time --enable-lto --enable-obsolete --enable-secureplt --enable-shared --enable-targets=all --enable-threads=posix --host=x86_64-gentoo-linux-musl --includedir=/usr/lib/gcc/x86_64-gentoo-linux-musl/11.2.1/include --mandir=/usr/share/gcc-data/x86_64-gentoo-linux-musl/11.2.1/man --with-multilib-list=m64 --with-python-dir=/share/gcc-data/x86_64-gentoo-linux-musl/11.2.1/python --with-zstd --without-isl
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - Platform Profile: balanced - CPU Microcode: 0xa50000c - ACPI Profile: balanced
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 IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Gentoo Musl Edge W:znver3-O2

Processor: AMD Ryzen 7 PRO 5850U @ 4.51GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Gentoo Linux 2.8, Kernel: 5.17.1-gentoo-x86_64 (x86_64), Display Server: X Server 1.21.1.3, Compiler: GCC 11.2.1 20220115 + Clang 14.0.0 + LLVM 14.0.0, File-System: btrfs, Screen Resolution: 1920x1080

Compiler Notes: --bindir=/usr/x86_64-gentoo-linux-musl/gcc-bin/11.2.1 --build=x86_64-gentoo-linux-musl --datadir=/usr/share/gcc-data/x86_64-gentoo-linux-musl/11.2.1 --disable-cet --disable-esp --disable-fixed-point --disable-libada --disable-libsanitizer --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-libvtv --disable-multilib --disable-nls --disable-systemtap --disable-valgrind-annotations --disable-vtable-verify --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-default-pie --enable-default-ssp --enable-languages=c,c++,fortran --enable-libgomp --enable-libstdcxx-time --enable-lto --enable-obsolete --enable-secureplt --enable-shared --enable-targets=all --enable-threads=posix --host=x86_64-gentoo-linux-musl --includedir=/usr/lib/gcc/x86_64-gentoo-linux-musl/11.2.1/include --mandir=/usr/share/gcc-data/x86_64-gentoo-linux-musl/11.2.1/man --with-build-config=bootstrap-lto --with-multilib-list=m64 --with-python-dir=/share/gcc-data/x86_64-gentoo-linux-musl/11.2.1/python --with-zstd --without-isl
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - CPU Microcode: 0xa50000c
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

FreeBSD 13.1 RC1 Clang 13 znver3

Processor: AMD Ryzen 7 PRO 5850U @ 1.90GHz (16 Cores), Motherboard: LENOVO 20X7003WFR ThinkPad L15 Gen 2a, Chipset: AMD [AMD] Renoir/Cezanne Root Complex, Memory: 32GB, Disk: Generic NVMe Device, Graphics: AMD RENOIR 1GB, Audio: ATI (0x1637) HDA

OS: FreeBSD, Kernel: 13.1-STABLE (x86_64), Desktop: KDE Plasma 5.24.4, Display Server: X Server 1.20.14, OpenGL: 4.6 Mesa 21.3.8 (LLVM 13.0.1), Vulkan: 1.2.195, Compiler: Clang 13.0.0, File-System: zfs, Screen Resolution: 1920x1080

Gentoo Glibc Stable W:znver3-O2 k5.16

Processor: AMD Ryzen 7 PRO 5850U @ 1.90GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK Device 7961

OS: Gentoo/Linux, Kernel: 5.16.18-gentoo-r1 (x86_64), Desktop: KDE Plasma 5.23.5, Display Server: X Server 1.21.1.3 + Wayland, OpenGL: 4.6 Mesa 21.3.7 (LLVM 13.0.1), Compiler: GCC 11.2.1 20220115 + Clang 13.0.1 + LLVM 13.0.1, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - Platform Profile: balanced - CPU Microcode: 0xa50000c - ACPI Profile: balanced
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on

RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Gentoo Glibc Edge W:znver3-O2 k5.17 acpi

Processor: AMD Ryzen 7 PRO 5850U @ 1.90GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Gentoo 2.8, Kernel: 5.17.3-gentoo (x86_64), Desktop: KDE Plasma 5.24.4, Display Server: X Server 1.21.1.3 + Wayland, OpenGL: 4.6 Mesa 22.0.1 (LLVM 13.0.1 DRM 3.44), Vulkan: 1.3.204, Compiler: GCC 11.2.1 20220115 + Clang 14.0.1 + LLVM 14.0.1, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Environment Notes: RUSTFLAGS="-C target-cpu=native"
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa50000c
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Gentoo Glibc Edge W:znver3-O2 k5.17 p-state

Processor: AMD Ryzen 7 PRO 5850U @ 4.51GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Gentoo 2.8, Kernel: 5.17.3-gentoo (x86_64), Desktop: KDE Plasma 5.24.4, Display Server: X Server 1.21.1.3 + Wayland, OpenGL: 4.6 Mesa 22.0.1 (LLVM 13.0.1 DRM 3.44), Vulkan: 1.3.204, Compiler: GCC 11.2.1 20220115 + Clang 14.0.1 + LLVM 14.0.1, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Environment Notes: RUSTFLAGS="-C target-cpu=native"
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - CPU Microcode: 0xa50000c
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Gentoo Glibc Edge W:znver3-O2 k5.17 clear-p

Processor: AMD Ryzen 7 PRO 5850U @ 4.51GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Gentoo 2.8, Kernel: 5.17.3-gentoo-clear (x86_64), Desktop: KDE Plasma 5.24.4, Display Server: X Server 1.21.1.3 + Wayland, OpenGL: 4.6 Mesa 22.0.1 (LLVM 13.0.1 DRM 3.44), Vulkan: 1.3.204, Compiler: GCC 11.2.1 20220115 + Clang 14.0.1 + LLVM 14.0.1, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Environment Notes: RUSTFLAGS="-C target-cpu=native"
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - CPU Microcode: 0xa50000c
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Gentoo Glibc Edge W:znver3-O2 k5.17-clang

Gentoo Glibc Edge k5.17-clang-thin

Processor: AMD Ryzen 7 PRO 5850U @ 4.51GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Gentoo 2.8, Kernel: 5.17.3-gentoo-clang (x86_64), Desktop: KDE Plasma 5.24.4, Display Server: X Server 1.21.1.3 + Wayland, OpenGL: 4.6 Mesa 22.0.1 (LLVM 13.0.1 DRM 3.44), Vulkan: 1.3.204, Compiler: GCC 11.2.1 20220115 + Clang 14.0.1 + LLVM 14.0.1, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Environment Notes: RUSTFLAGS="-C target-cpu=native"
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - CPU Microcode: 0xa50000c
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Gentoo Glibc Edge k5.17 w:clang

Processor: AMD Ryzen 7 PRO 5850U @ 4.51GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Gentoo 2.8, Kernel: 5.17.3-gentoo (x86_64), Desktop: KDE Plasma 5.24.4, Display Server: X Server 1.21.1.3 + Wayland, OpenGL: 4.6 Mesa 22.0.1 (LLVM 13.0.1 DRM 3.44), Vulkan: 1.3.204, Compiler: Clang 14.0.1 + GCC 11.2.1 20220115 + LLVM 14.0.1, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Environment Notes: RUSTFLAGS="-C target-cpu=native"
Compiler Notes: Optimized build; Default target: x86_64-pc-linux-gnu; Host CPU: znver3
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - CPU Microcode: 0xa50000c
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Gentoo Glibc Edge k5.17 Xanmod O3

Processor: AMD Ryzen 7 PRO 5850U @ 4.51GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Gentoo 2.8, Kernel: 5.17.4-xanmod1-xanmod (x86_64), Desktop: KDE Plasma 5.24.4, Display Server: X Server 1.21.1.3 + Wayland, OpenGL: 4.6 Mesa 22.0.1 (LLVM 13.0.1 DRM 3.44), Vulkan: 1.3.204, Compiler: GCC 11.3.0 + Clang 14.0.1 + LLVM 14.0.1, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: RUSTFLAGS="-C target-cpu=native"
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - CPU Microcode: 0xa50000c
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Gentoo Glibc Edge k5.17 Xanmod w:clear

Processor: AMD Ryzen 7 PRO 5850U @ 4.51GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR

(R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Gentoo 2.8, Kernel: 5.17.4-xanmod1-xanmod (x86_64), Desktop: KDE Plasma 5.24.4, Display Server: X Server 1.21.1.3, OpenGL: 4.6 Mesa 22.1.0-rc3 (LLVM 14.0.3 DRM 3.44), Vulkan: 1.3.211, Compiler: GCC 11.3.0 + Clang 14.0.3 + LLVM 14.0.3, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: FFLAGS="-O3 -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -Wl,--enable-new-dtags" CXXFLAGS="-march=native -O3 -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -Wl,-sort-common -Wl,--enable-new-dtags -mtune=native -fvisibility-inlines-hidden" RUSTFLAGS="-C target-cpu=native" FCFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -Wl,-sort-common -Wl,--enable-new-dtags" CFLAGS="-march=native -O3 -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -Wl,-sort-common -Wl,--enable-new-dtags -mtune=native" COMMON_FLAGS="-march=native -O3 -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -Wl,-sort-common -Wl,--enable-new-dtags -mtune=native"
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - CPU Microcode: 0xa50000c
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Gentoo Glibc Edge k5.17 PF-kernel lite

Processor: AMD Ryzen 7 PRO 5850U @ 4.51GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Gentoo 2.8, Kernel: 5.17.0-pf5-gd4f12e0431e1 (x86_64), Desktop: KDE Plasma 5.24.5, Display Server: X Server 1.21.1.3 + Wayland, OpenGL: 4.6 Mesa 22.1.0-rc5 (LLVM 14.0.3 DRM 3.44), Vulkan: 1.3.211, Compiler: GCC 12.1.0 + Clang 14.0.3 + LLVM 14.0.3, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: RUSTFLAGS="-C target-cpu=native"
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - CPU Microcode: 0xa50000c
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Gentoo Glibc Edge k5.17.7 PF-kernel lite

Processor: AMD Ryzen 7 PRO 5850U @ 4.51GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: ATI Generic, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Gentoo 2.8, Kernel: 5.17.0-pf5-gd4f12e0431e1 (x86_64), Desktop: KDE Plasma 5.24.5, Display Server: X Server 1.21.1.3 + Wayland, OpenGL: 4.6 Mesa 22.1.0 (LLVM 14.0.3 DRM 3.44), Vulkan: 1.3.211, Compiler: GCC 12.1.0 + Clang 14.0.3 + LLVM 14.0.3, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: RUSTFLAGS="-C target-cpu=native"
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - CPU Microcode: 0xa50000c
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Gentoo Glibc Edge k5.18

Processor: AMD Ryzen 7 PRO 5850U @ 4.51GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Gentoo 2.8, Kernel: 5.18.0-gentoo-clang (x86_64), Desktop: KDE Plasma 5.24.5, Display Server: X Server 1.21.1.3 + Wayland, OpenGL: 4.6 Mesa 22.1.1 (LLVM 14.0.4 DRM 3.46), Vulkan: 1.3.211, Compiler: Clang 14.0.4 + GCC 12.1.1 20220604 + LLVM 14.0.4, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Environment Notes: RUSTFLAGS="-C target-cpu=native"
Compiler Notes: Optimized build; Default target: x86_64-pc-linux-gnu; Host CPU: znver3
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - Platform Profile: balanced - CPU Microcode: 0xa50000c - ACPI Profile: balanced
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Gentoo Glibc Edge k5.18-pf clang

Processor: AMD Ryzen 7 PRO 5850U @ 4.51GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: ATI Generic, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Gentoo 2.8, Kernel: 5.18.0-pf2-00057-ge7e0fd1241fc (x86_64), Desktop: KDE Plasma 5.24.5, Display Server: X Server 1.21.1.3 + Wayland, OpenGL: 4.6 Mesa 22.1.1 (LLVM 14.0.4 DRM 3.46), Vulkan: 1.3.211, Compiler: Clang 14.0.4 + GCC 12.1.1 20220604 + LLVM 14.0.4, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: RUSTFLAGS="-C target-cpu=native"
Compiler Notes: Optimized build; Default target: x86_64-pc-linux-gnu; Host CPU: znver3
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - Platform Profile: low-power - CPU Microcode: 0xa50000c - ACPI Profile: low-power
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Gentoo Glibc Edge k5.18 clang

Processor: AMD Ryzen 7 PRO 5850U @ 4.51GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: ATI Generic, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Gentoo 2.8, Kernel: 5.18.1-gentoo-r2 (x86_64), Desktop: KDE Plasma 5.24.5, Display Server: X Server 1.21.1.3 + Wayland, OpenGL: 4.6 Mesa 22.1.1 (LLVM 14.0.4 DRM 3.46), Vulkan: 1.3.211, Compiler: GCC 12.1.1 20220604 + Clang 14.0.4 + LLVM 14.0.4, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: RUSTFLAGS="-C target-cpu=native"
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - Platform Profile: low-power - CPU Microcode: 0xa50000c - ACPI Profile: low-power
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Ubuntu 22.04 CC=11.2 kver=5.18.14

Processor: AMD Ryzen 7 PRO 5850U @ 1.90GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR

(R1KET37W 1.22 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Ubuntu 22.04, Kernel: 5.18.14-051814-generic (x86_64), Desktop: KDE Plasma 5.24.4, Display Server: X Server 1.21.1.3 + Wayland, OpenGL: 4.6 Mesa 22.0.1 (LLVM 13.0.1 DRM 3.46), Vulkan: 1.2.204, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 1920x1080

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
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - Platform Profile: balanced - CPU Microcode: 0xa50000c - ACPI Profile: balanced
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: 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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

OpenMandriva LX 4.2 kver=5.17

Processor: AMD Ryzen 7 PRO 5850U @ 1.90GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET37W 1.22 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: OpenMandrivaLinux 4.3, Kernel: 5.17.1-desktop-2omv4050 (x86_64), Desktop: KDE Plasma 5.23.5, Display Server: X Server 1.21.1.3 + Wayland, OpenGL: 4.6 Mesa 21.3.7 (LLVM 13.0.0), Vulkan: 1.2.195, Compiler: Clang 13.0.0 + GCC 11.2.0 20210728 + LLVM 13.0.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: dm_mod.use_blk_mq=1 - Transparent Huge Pages: always
Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0xa50000c
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Fedora 36 k5.18 performance

Processor: AMD Ryzen 7 PRO 5850U @ 4.51GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET37W 1.22 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Fedora Linux 36, Kernel: 5.18.16-200.fc36.x86_64 (x86_64), Desktop: KDE Plasma 5.25.4, Display Server: X Server 1.20.14 + Wayland, OpenGL: 4.6 Mesa 22.1.4 (LLVM 14.0.0 DRM 3.46), Compiler: GCC 12.1.1 20220507 + Clang 14.0.0 + LLVM 14.0.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - Platform Profile: performance - CPU Microcode: 0xa50000c - ACPI Profile: performance
Security Notes: SELinux + itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: 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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Calculate GCC 11.3 k5.19

Processor: AMD Ryzen 7 PRO 5850U @ 1.90GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET37W 1.22 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N,

Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Calculate Linux Desktop 22.0.1 KDE, Kernel: 5.19.4-calculate (x86_64), Desktop: KDE Plasma 5.24.6, Display Server: X Server 1.21.1.4 + Wayland, OpenGL: 4.6 Mesa 22.1.3 (LLVM 14.0.4 DRM 3.47), Compiler: GCC 11.3.0 + Clang 14.0.6 + LLVM 14.0.6, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - Platform Profile: balanced - CPU Microcode: 0xa50000c - ACPI Profile: balanced
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: 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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

ClearLinux 36930 K5.19 GCC 12.1

Processor: AMD Ryzen 7 PRO 5850U @ 4.51GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET37W 1.22 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Clear Linux OS 36930, Kernel: 5.19.4-1181.native (x86_64), Desktop: KDE Plasma 5.25.4, Display Server: X Server 1.21.1.4 + Wayland, OpenGL: 4.6 Mesa 22.2.0-rc3 (LLVM 14.0.6 DRM 3.47), Vulkan: 1.3.224, Compiler: GCC 12.2.1 20220822 releases/gcc-12.2.0-4-g55b6abd9f2 + Clang 14.0.6 + LLVM 14.0.6, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Environment Notes: FFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -Wl,--enable-new-dtags" CXXFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -Wl,-sort-common -Wl,--enable-new-dtags -mtune=skylake -mrelax-cmpxchg-loop -fvisibility-inlines-hidden -Wl,--enable-new-dtags" MESA_GLSL_CACHE_DISABLE=0 FCFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -malign-data=abi -fno-semantic-interposition -ftree-vectorize -ftree-loop-vectorize -Wl,-sort-common -Wl,--enable-new-dtags" CFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -ftree-loop-distribute-patterns -Wl,-z -Wl,now -Wl,-z -Wl,relro -fno-semantic-interposition -ffat-lto-objects -fno-trapping-math -Wl,-sort-common -Wl,--enable-new-dtags -mtune=skylake -mrelax-cmpxchg-loop" THEANO_FLAGS="floatX=float32,openmp=true,gcc.cxxflags="-ftree-vectorize -mavx""
Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --disable-werror --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-clocale=gnu --enable-default-pie --enable-gnu-indirect-function --enable-gnu-indirect-function --enable-host-shared --enable-languages=c,c++,fortran,go,jit --enable-ld=default --enable-libstdcxx-pch --enable-linux-futex --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=x86-64-v3 --with-gcc-major-version-only --with-glibc-version=2.35 --with-gnu-ld --with-isl --with-pic --with-ppl=yes --with-tune=skylake-avx512 --with-zstd
Processor Notes: Scaling Governor: amd-pstate performance (Boost: Enabled) - Platform Profile: balanced - CPU Microcode: 0xa50000c - ACPI Profile: balanced
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: 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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

Gentoo Musl Clang Edge W:znver3-O3

Processor: AMD Ryzen 7 PRO 5850U @ 1.90GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET37W 1.22 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 32GB, Disk: 512GB SK hynix HFS512GDE9X081N, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Gentoo 2.9, Kernel: 5.19.10-gentoo (x86_64), Desktop: Lumina 1.6.0, Display Server: X Server 1.21.1.4, Compiler: Clang 15.0.1, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: Optimized build; Default target: x86_64-gentoo-linux-musl; Host CPU: znver3
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - Platform Profile: low-power - CPU Microcode: 0xa50000c - ACPI Profile: low-power
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB:

disabled STIBP: disabled PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

Kernel Bench

	Ubuntu 21.10 CC 11.2 kver=5.16	Open Mandriva znver1 GCC 11.2 kver=5.16	FreeBSD 13.1 Beta1 Clang 13 Default package	Manjaro GCC 11.2 KVER=5.16	Fedora 36 pre-ver GCC 12 kver=5.17	CleaRLinux 36070 GCC 11.2	Gentoo Musl Stable Wznver3-O2	Gentoo Musl Edge Wznver3-O2	FreeBSD 13.1 RC1 Clang 13 znver3	Gentoo Glibc Stable Wznver3-O2 k5.16	Gentoo Glibc Edge Wznver3-O2 k5.17 acpi	Gentoo Glibc Edge Wznver3-O2 k5.17 p-st	Gentoo Glibc Edge Wznver3-O2 k5.17 clea	Gentoo Glibc Edge Wznver3-O2 k5.17-clan	Gentoo Glibc Edge Wznver3-O2 k5.17-clang-thin	Gentoo Glibc Edge k5.17 w:clang	Gentoo Glibc Edge k5.17 Xanmod O3	Gentoo Glibc Edge k5.17 Xanmod w:clear	Gentoo Glibc Edge k5.17 PF-kernelite	Gentoo Glibc Edge k5.17.7 PF-kernelite	Gentoo Glibc Edge k5.18	Gentoo Glibc Edge k5.18-pfclang	Gentoo Glibc Edge k5.18clang	Ubuntu 22.04 CC=11.2 kver=5.18.14	Open Mandriva LX 4.2 kver=5.17	Fedora 36 k5.18 performance	Calculate GCC 11.3 k5.19	CleaRLinux 36930 K5.19 GCC 12.1	Gentoo Musl Clang Edge Wznver3-O3
Tinymembench - Standard Memcpy (MB/s)	11096	10823		15940	15746	17605	78 27	84 32		18096	17366	17423	17391	17369	17396		15592	15592		15256			15518	15758	17582	15447	15543	17656
Normalized	61.32%	59.81%		88.08%	87.01%	97.29%	43.25%	46.6%		100%	95.97%	96.28%	96.11%	95.98%	96.13%		86.17%	86.16%		84.31%			85.75%	87.08%	97.16%	85.36%	85.89%	97.57%		
Standard Deviation	0.4%	0.1%		1.2%	1.4%	0.4%	0.3%	0.2%		0.1%	0.4%	0.4%	0.4%	0.1%	0.3%		0.3%	0.5%		0.2%			0.2%	0.5%	0.4%	0.3%	0.2%	0.2%		

Kernel Bench

Tinymembench - Standard Memset (MB/s)	10070545	11046		15267	15106	16679	10965	15019		16590	16381	16562	16479	16491	16323		14895	15122		14864			15006	15096	16436	15038	15065	16664							
Normalized	60.41%	66.23%		91.54%	90.57%	10.0%	65.74%	90.05%		99.47%	98.22%	99.3%	98.81%	98.88%	97.87%		89.31%	90.66%		89.12%			89.97%	90.47%	98.55%	90.16%	90.33%	99.92%							
Standard Deviation	0.3%	0.7%		0.7%	2.5%	0.5%	0.8%	0.1%		0.1%	0.6%	0.5%	0.1%	0.2%	0.3%		1.8%	0.2%		0.1%			0.1%	0.2%	0.1%	0.2%	0.2%	0.4%							
MBW - Memory Copy - 512 MiB (MiB/s	73	74	40	11	10	11	76	62	68	10	10	10	10	10	10	10	10	11		10	10	10	11	10	10	10	10	11	90						
	66	51	16	06	93	05	27	81	39	76	86	69	63	60	81	48	89	02		58	84	74	03	69	96	80	78	05	62						
				5	4	1				8	9	0	2	8	9	5	1	8		9	7	5	3	7	0	2	7	3							
Normalized	66.57%	67.34%	36.3%	10.0%	98.82%	99.87%	68.94%	56.77%	61.81%	97.32%	98.23%	96.61%	96.09%	95.87%	97.78%	94.76%	98.43%	99.67%		95.7%	98.03%	97.11%	99.72%	96.68%	99.06%	97.63%	97.49%	99.9%	81.9%						
Standard Deviation	0.6%	0.2%	0.9%	1.1%	0.7%	0.4%	7.3%	0.1%	1.1%	0.2%	0.4%	1.5%	1.1%	2.3%	0.2%	1.1%	1.9%	1.6%		0.8%	0.7%	0.2%	1.7%	1%	1.3%	0.4%	1.3%	0.2%	0.4%						
t-test1 - 1 (sec)	15.6571	5.71	24.7	13.6	16.4	16.1	28.4	27.1	24.1	12.2	16.6	15.4	15.7	15.2	14.9	16.7	15.5	15.1		17.2	15.9	16.0	17.1	16.5	6.79	18.0	15.4	14.3	25.9						
Normalized	36.52%	10.0%	23.06%	41.94%	34.85%	35.51%	20.09%	21.05%	23.68%	46.72%	34.38%	36.9%	36.25%	37.41%	38.2%	34.15%	36.86%	37.65%		33.06%	35.93%	35.56%	33.37%	34.53%	84.17%	31.62%	36.93%	39.94%	22.05%						
Standard Deviation	2.5%	1.4%	0.2%	2.5%	0.6%	0.5%	0.3%	0.1%	0.5%	1.5%	1.8%	0.9%	0.1%	0.2%	0.6%	0.6%	0.7%	0.7%		1.5%	0.8%	0.6%	0.5%	0.1%	1.4%	0.7%	1.4%	0.7%	0.3%						
pmbench - 8 - 50% (us - Page Laten	0.12105	0.11		0.1051	0.1058	0.1000				0.1024	0.106	0.1023	0.1023	0.1051	0.1019	0.1012	0.1052	0.1067		0.1059	0.1021	0.1093	0.1027	0.1050	0.1035	0.1031	0.1061	0.1013							
Normalized	82.99%	83.82%		95.15%	94.52%	10.0%				97.66%	94.34%	97.75%	97.75%	95.15%	98.14%	98.81%	95.06%	93.72%		94.43%	97.94%	91.49%	88.73%	95.24%	96.62%	96.99%	94.25%	98.72%							
	99%	82%		15%	52%	0%				66%	34%	75%	75%	15%	14%	81%	06%	72%		43%	94%	49%	73%	24%	62%	99%	25%	72%							

Kernel Bench

Standard Deviation	0.1%	0.9%		0.9%	0.1%	0.5%				0.7%	0.5%	0.3%	0.6%	1.7%	1.1%	0.4%	0.1%	1.1%		0.3%	0.3%	0.9%	0.8%	0.6%	0.6%	0.2%	0.4%	0.8%			
OSBench - Create Threads (us/Event)	11.5	10.73	1.31	9.71	11.3	8.77	13.5	11.6	1.52	8.32	10.6	11.0	10.7	11.1	10.9	7.89	9.83	9.89		10.3	10.2	9.70	10.2	10.0	9.66	12.9		8.74	6.32		
Normalized	13.13	15.02	10.0%	15.58	13.37	17.25	11.17	12.93	99.17	18.19	14.15	13.67	14.07	13.63	13.85	19.16	15.39	15.29		14.55	14.72	15.58	14.71	15.02	15.66	11.72		17.3%	23.94		
Standard Deviation	0.8%	7.2%	1.3%	1.5%	1.4%	4.8%	4.5%	2.5%	1%	1.4%	1.1%	6.3%	4.2%	5.6%	5.9%	2.4%	1.7%	2.4%		2.2%	5.4%	1.5%	1.4%	1.3%	4.4%	2%		0.9%	1.2%		
OSBench - Create Processes (us/Event)	21.2	19.4	20.8	20.6	24.7	17.9	22.6	18.7	24.4	16.3	19.8	19.2	19.5	19.5	18.7	17.1	19.5	19.6		19.9	18.0	19.0	19.6	22.6	22.0	25.3		18.4	15.2		
Normalized	71.63	78.34	73.18	73.82	61.74	85.11	67.31	81.45	62.26	93.25	76.73	79.05	78.12	77.93	81.41	88.69	78.16	77.55		76.32	84.69	79.88	77.26	67.%	69	60.05		82.71	10 0%		
Standard Deviation	2.3%	0.2%	0.7%	2.5%	2%	2.5%	4.1%	2.1%	4.3%	2.2%	1.8%	2.2%	1.1%	2%	3%	2.2%	2.3%	3.5%		0.2%	2.2%	0.7%	0.8%	0.9%	1.5%	2.3%		0.9%	3.4%		
IPC_benchmark - TCP Socket - 128 (Messages/sec)	81.35	50.76	30.4	35.57	36.23	42.38	40.77	77.60	17	43.70	81.12	81.07	81.10	81.16	81.15	44.62	81.00	81.56		80.31	81.38	78.16	80.25	32.96	49.44	75.77	81.54	43.39	41.81		
Normalized	16.03	10 0%		70.08	71.37	83.51	80.33	15.29		86.1%	15.98	15.97	15.98	15.99	15.99	87.91	15.96	16.07		15.82	16.03	15.4%	15.81	64.95	97.41	14.93	16.06	85.48	82.37		
Standard Deviation	0.5%	1.5%		0.1%	0.5%	0.8%	0.6%	0.2%		1.1%	0.1%	0.2%	0.1%	0.1%	0.1%	0.1%	0.6%	0.1%		1.7%	0.2%	0.6%	0.7%	0.2%	3.4%	0.2%	0%	0.9%	2.4%		

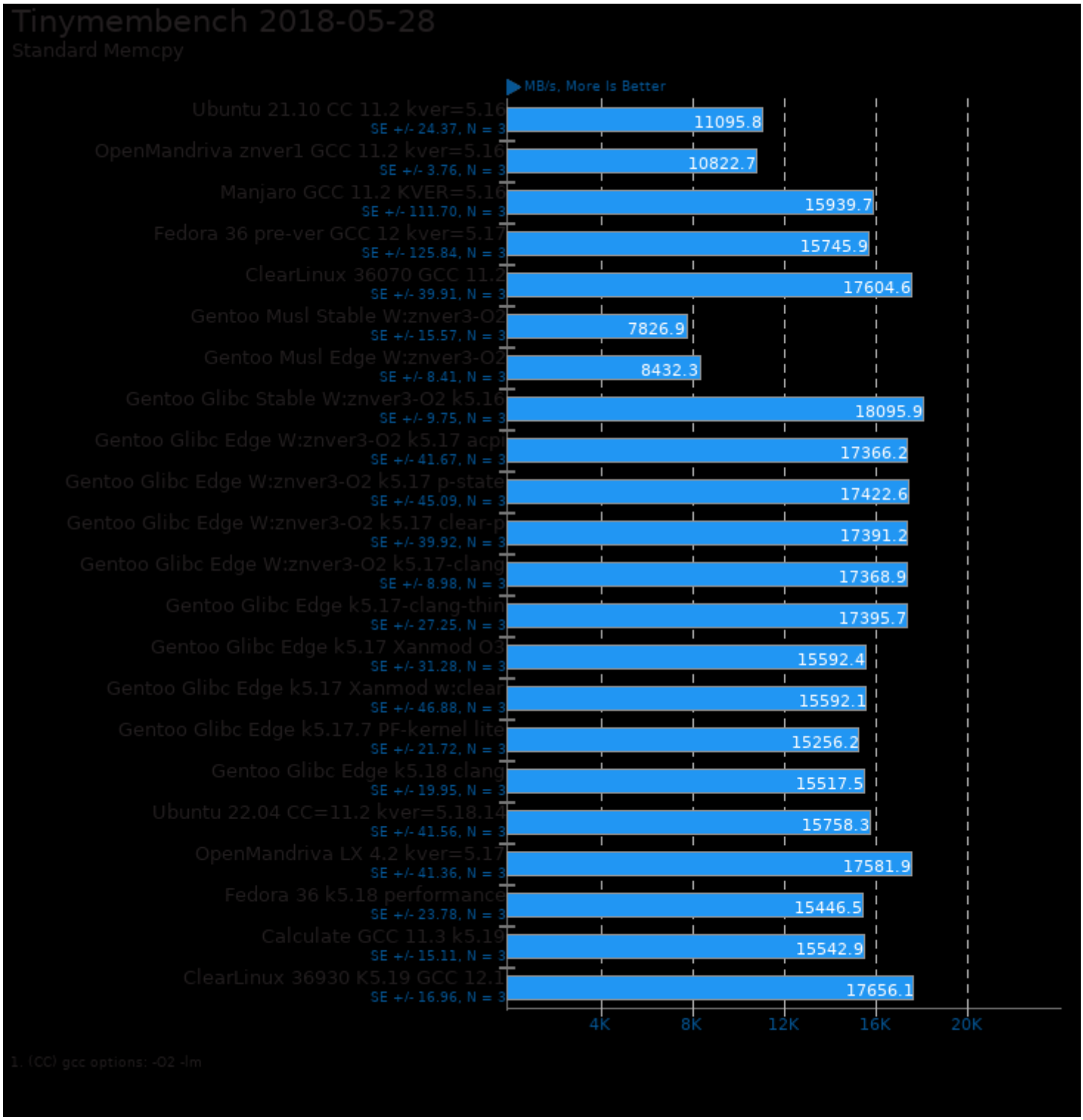
Kernel Bench

Hackbench - 4 - Thread	10.9	8.71	11.5	12.3	8.67	13.6	9.39	7.55	7.61	7.18	7.28	7.46	7.03	6.80	9.22	10.2	8.51	7.06	9.59	9.43	12.3	8.90	12.1	6.47	8.69	8.22					
Normalized	59.15%	74.3%	55.98%	52.33%	74.66%	47.45%	68.9%	85.7%	85.05%	90.16%	88.89%	86.78%	91.99%	95.16%	70.19%	63.21%	76.02%	91.69%	67.45%	68.62%	52.49%	72.74%	53.1%	10 0%	74.45%	78.72%					
Standard Deviation	2.3%	1.6%	1.9%	1.4%	1.8%	0.4%	1.4%	1.5%	1.2%	2%	1.5%	1.6%	1.4%	1.2%	16.8%	12.2%	1.5%	1.4%	0.7%	0.9%	1.2%	1.3%	0.5%	1.1%	2.5%	1.5%					
ctx_clock - C.S.T (Clocks)	95	95	114	76	76	95	95	76	77	77	80	95	95	95	95	95	95	95	95	95	95	95	95	76	76	114					
Normalized	80%	80%	66.67%	10 0%	10 0%	80%	80%	10 0%	98.7%	98.7%	95%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	10 0%	10 0%	66.67%					
Standard Deviation	0%	0%	0%	0%	0%	0%	0%	0%	6.6%	6.6%	9.9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%					
Facebook Rocks DB - Rand Read (Op/s)	36		37		45	35	34	36	36	36	36	34	36	39	36	40		43	41		37			36							
	57		30		08	78	19	31	49	68	09	89	64	35	81	24		76	01		10			44							
	22		25		18	46	65	88	40	09	43	54	10	19	80	65		24	94		01			96							
	85		80		84	79	95	24	38	64	01	78	20	96	07	63		71	83		34			07							
Normalized	81.12%		82.74%		10 0%	79.38%	75.85%	80.56%	80.95%	81.37%	80.06%	77.4%	81.28%	87.29%	81.67%	89.27%		97.07%	90.99%		82.29%			80.85%							
Standard Deviation	0.4%		0.7%		0.4%	0.5%	0.7%	0.1%	0.2%	0.4%	0.3%	2.2%	0.4%	0.6%	0.5%	0.2%		0.2%	0.2%		0.4%			0.3%							

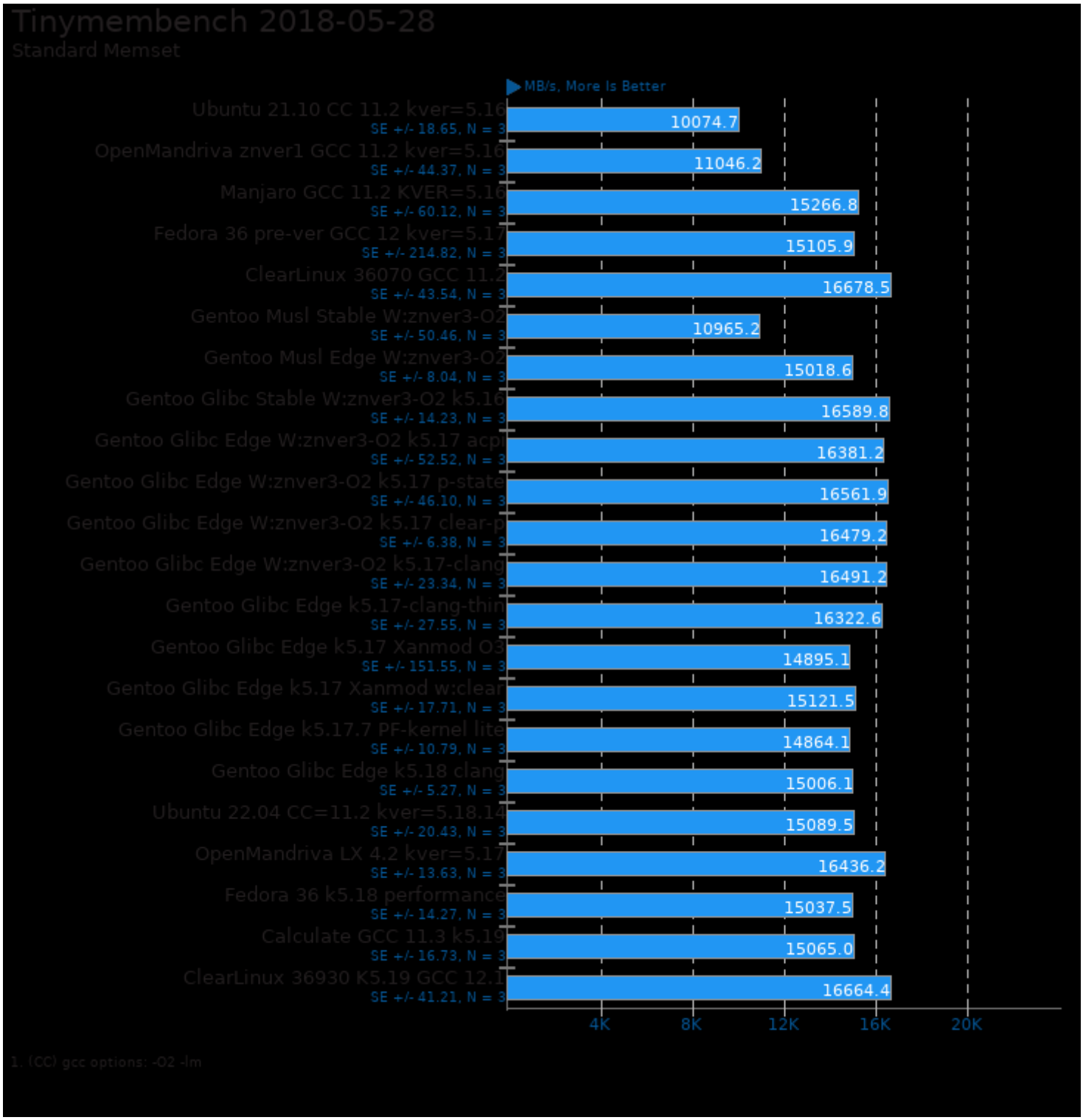
Kernel Bench

Schbench - 8 - 2 (usec, 99.9th Latency Percentile)	506	589	444	797	741	514	509	582	541	533	497	669	644	589	563	475	988	473	507	604	503	634	745	660	9856
Normalized Standard Deviation	87.75%	75.38%	10.0%	55.71%	59.92%	86.38%	87.23%	76.29%	82.07%	83.3%	89.34%	66.37%	68.94%	75.38%	78.86%	93.47%	44.94%	93.87%	87.57%	73.51%	88.27%	70.03%	59.6%	67.27%	4.5%
Standard Deviation	10.2%	68.6%	22.3%	11.6%	94.5%	13.3%	10.3%	24.4%	17.1%	16.8%	1.9%	71.9%	67.9%	28.8%	9.8%	15.7%	17.4.4%	16.3%	13%	98.2%	13%	41.9%	10.6.9%	1.2%	20.5%

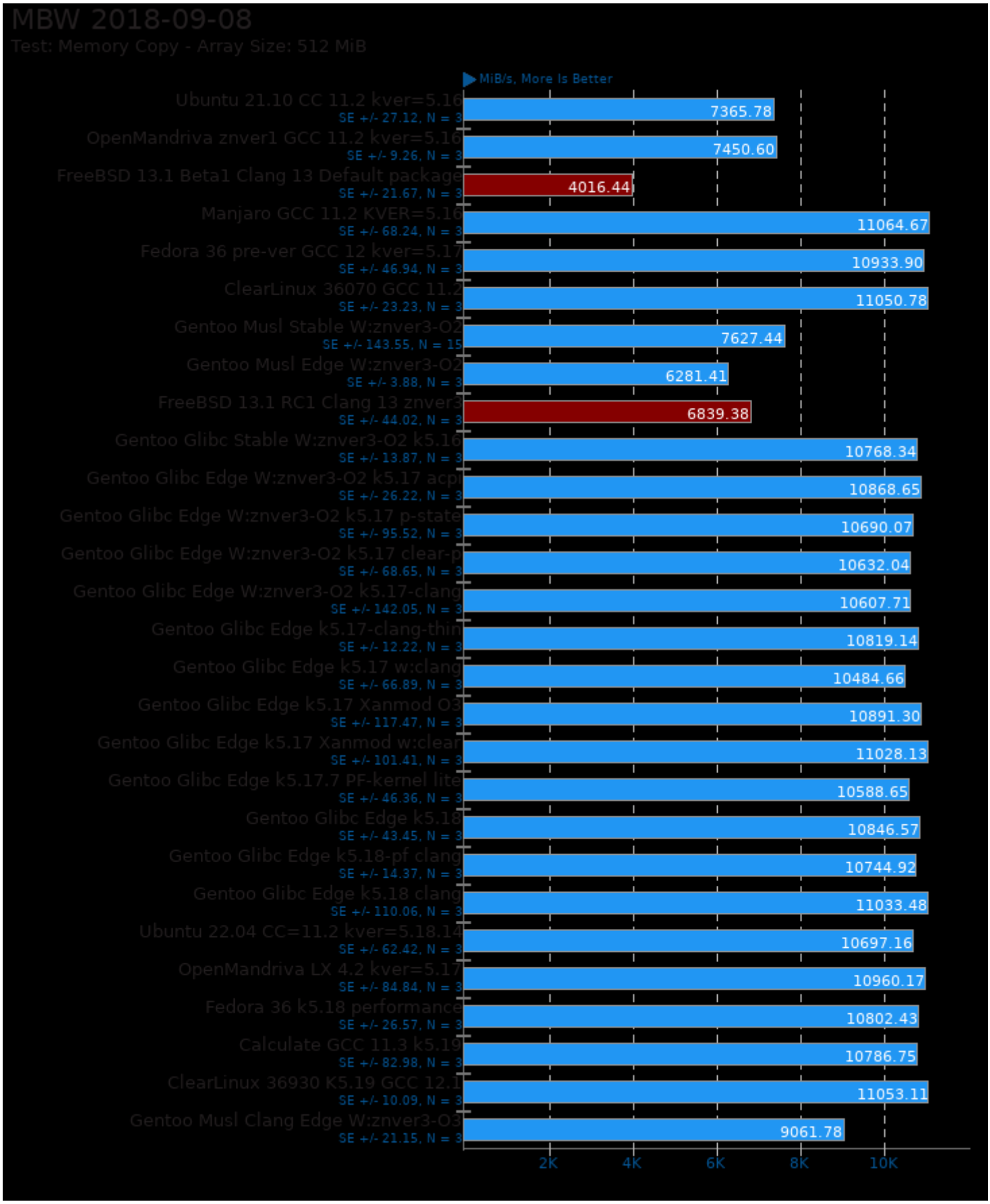
Kernel Bench



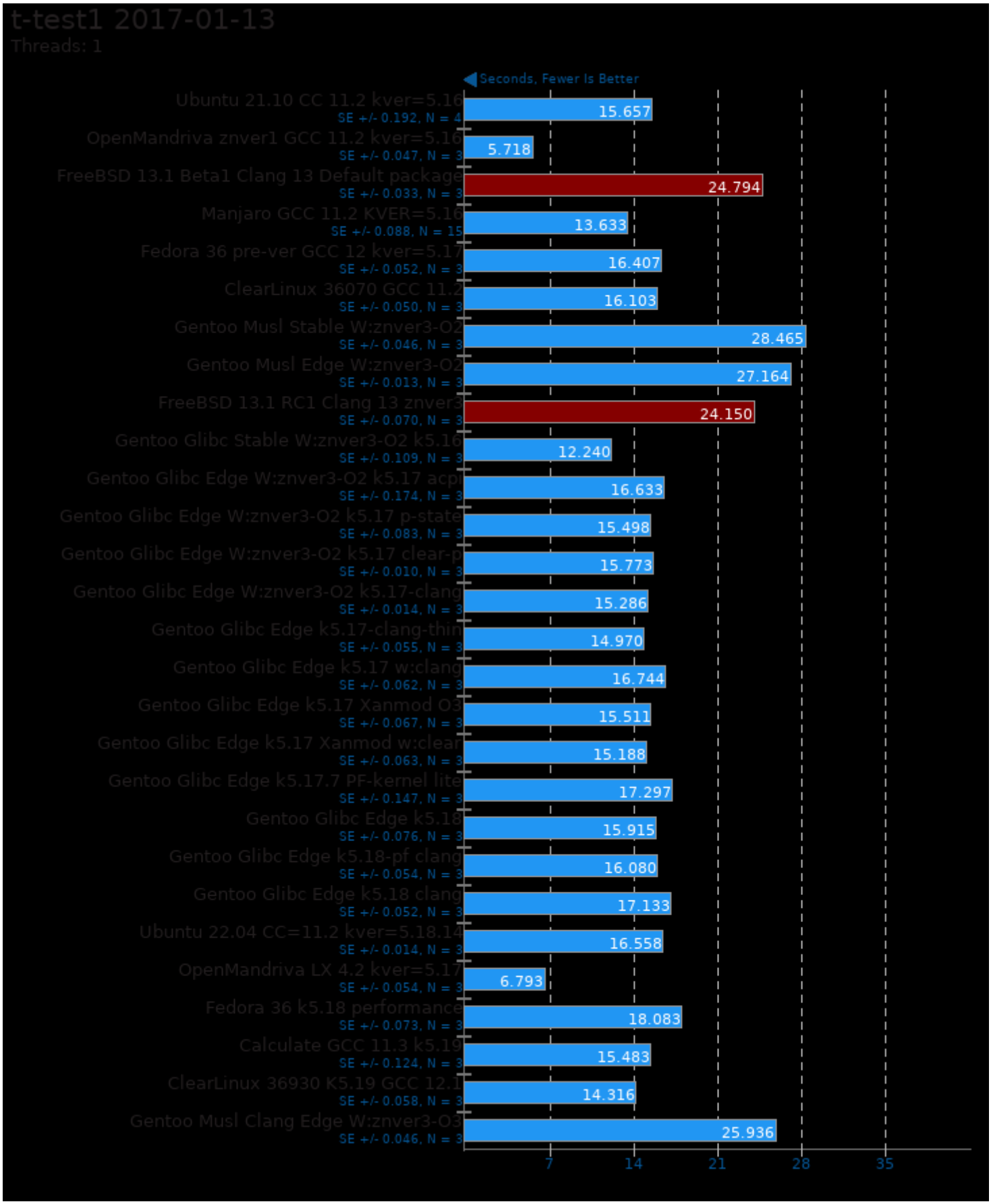
Kernel Bench



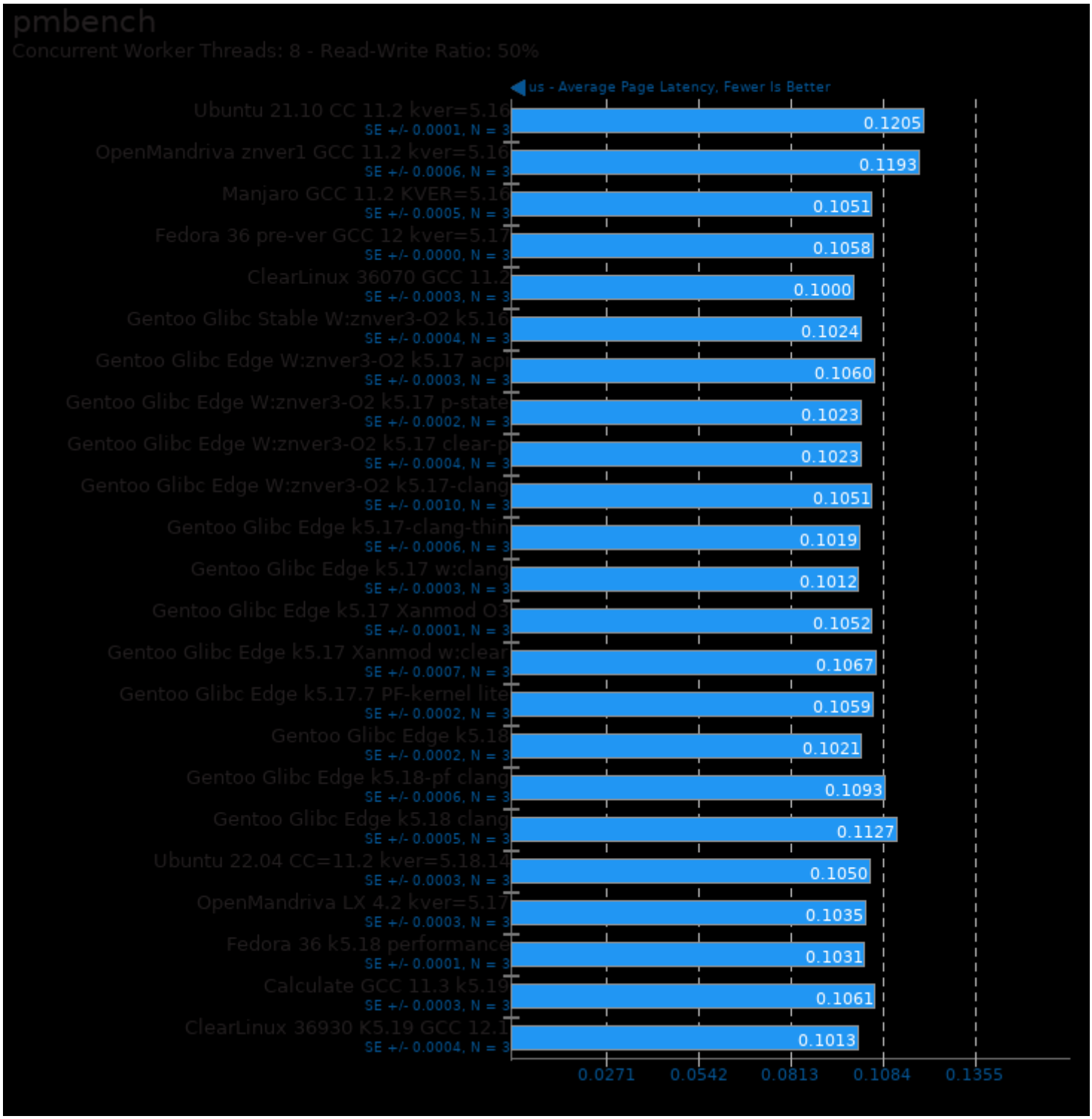
Kernel Bench



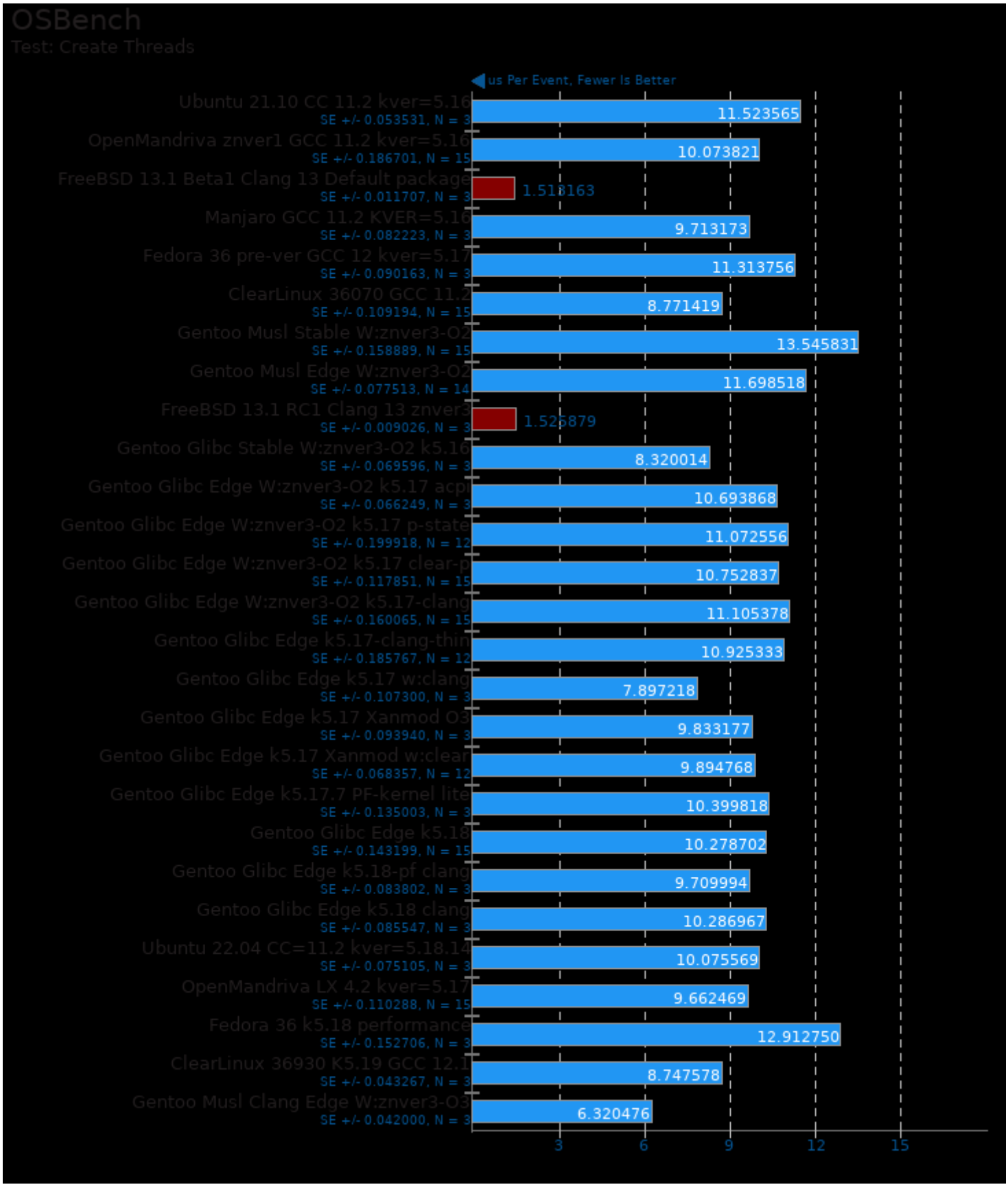
Kernel Bench



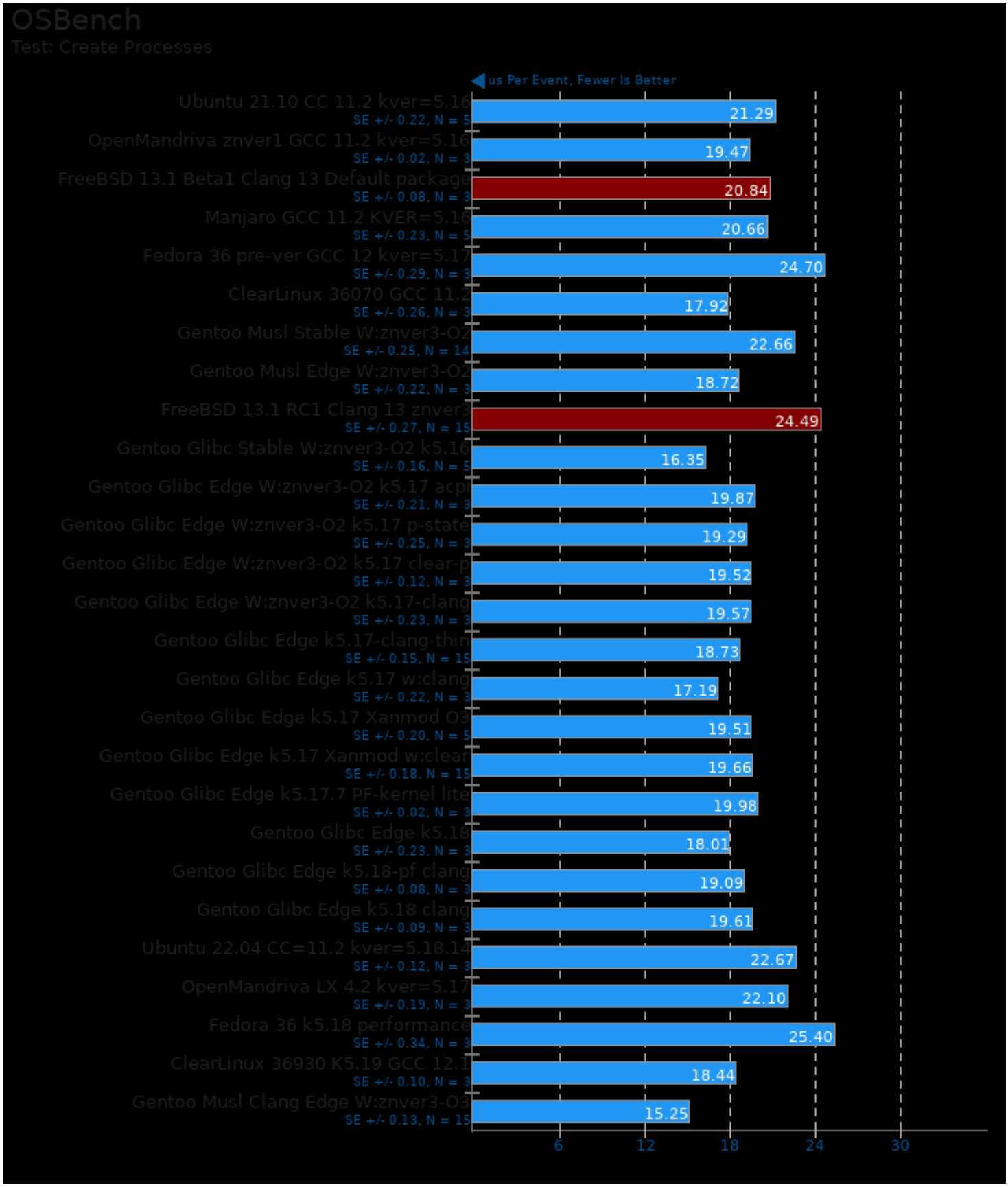
Kernel Bench



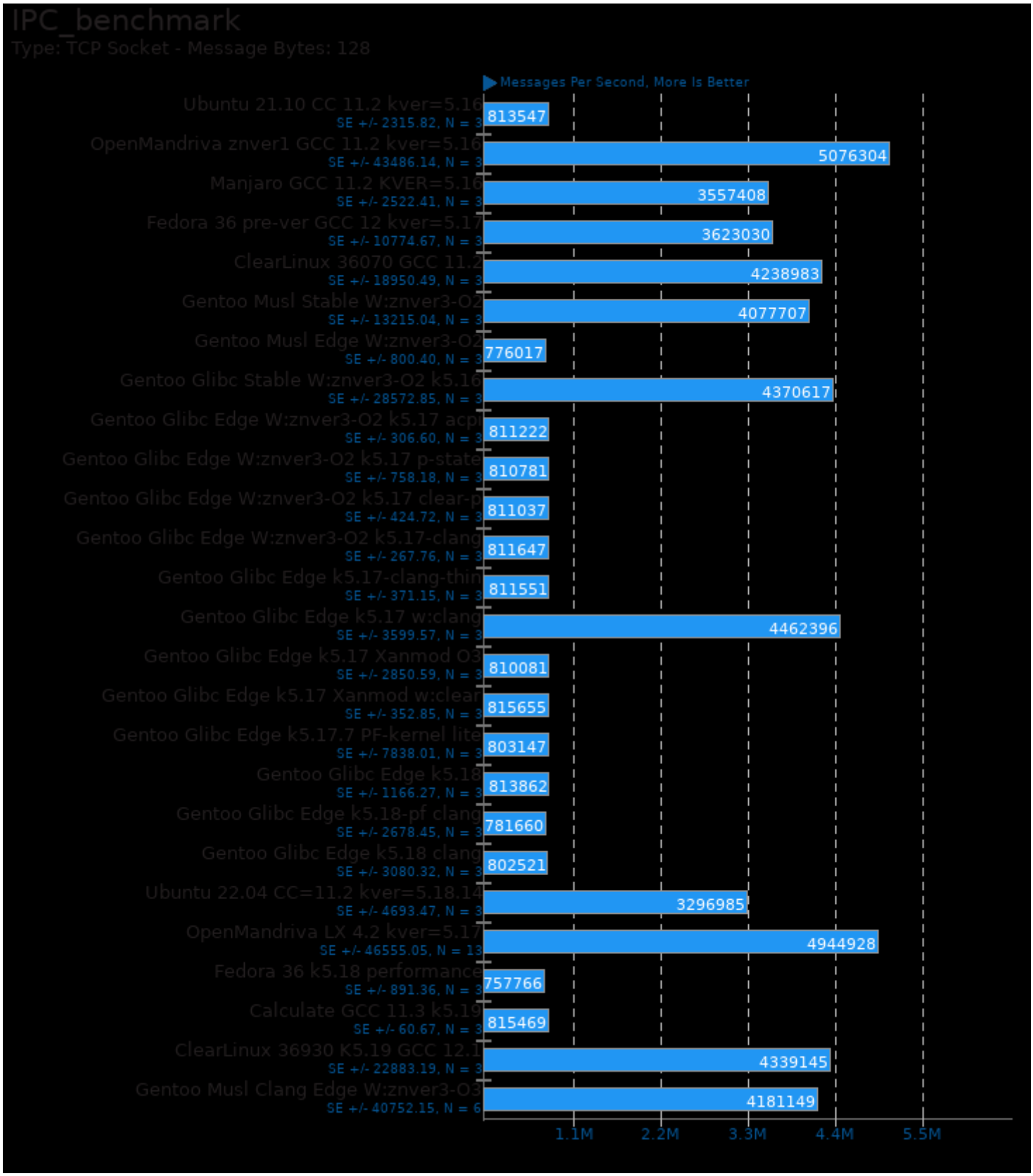
Kernel Bench



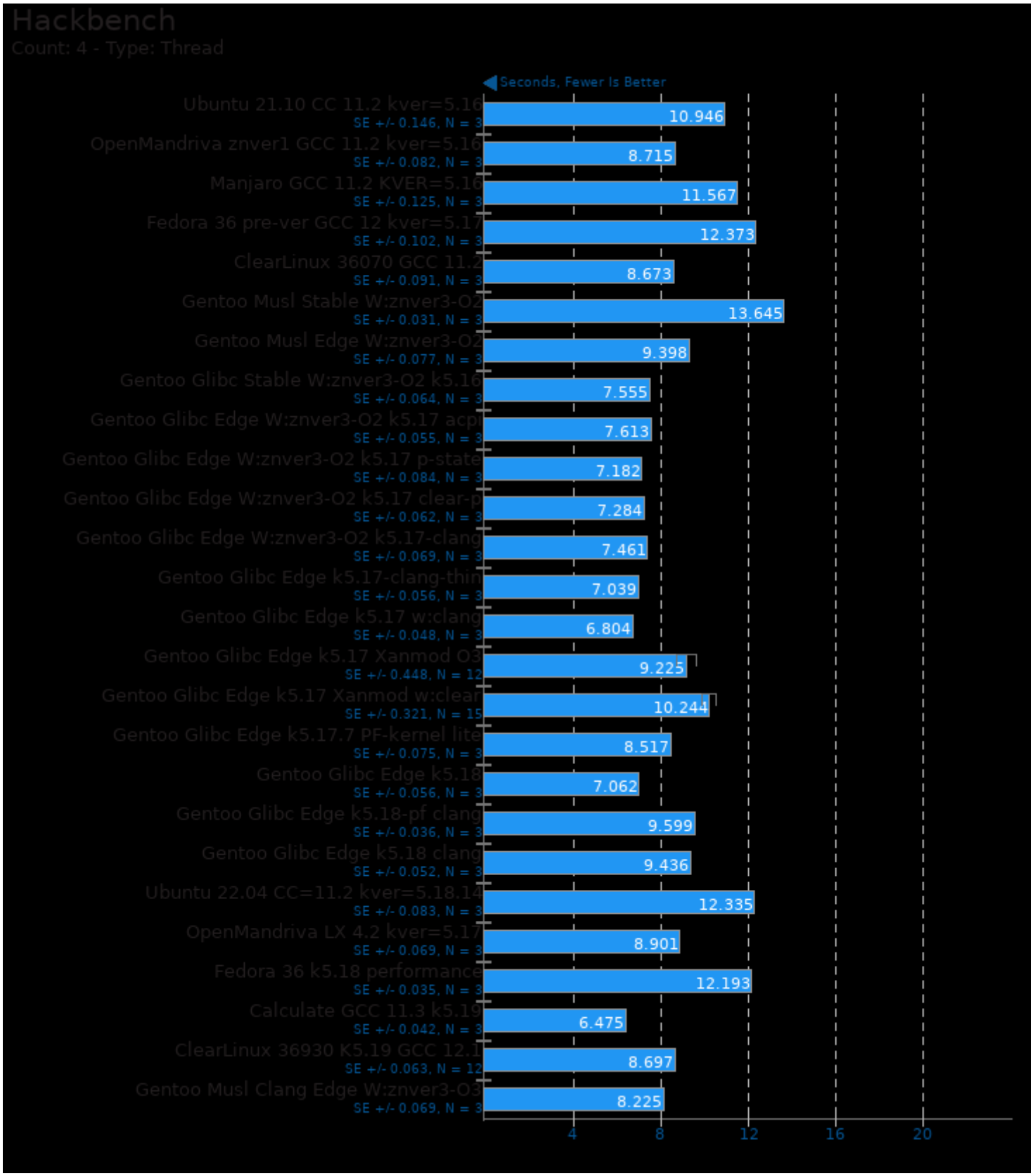
Kernel Bench



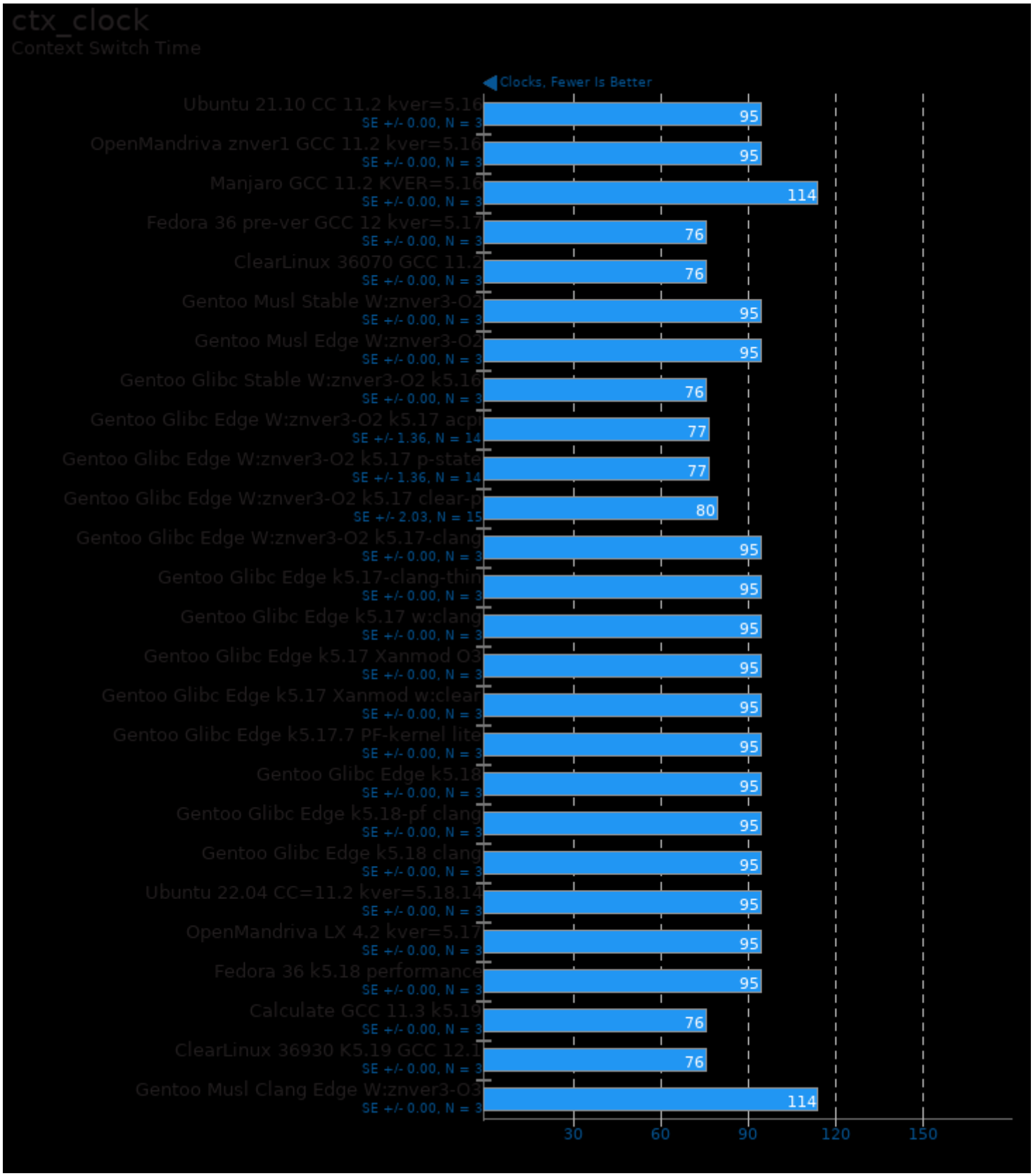
Kernel Bench

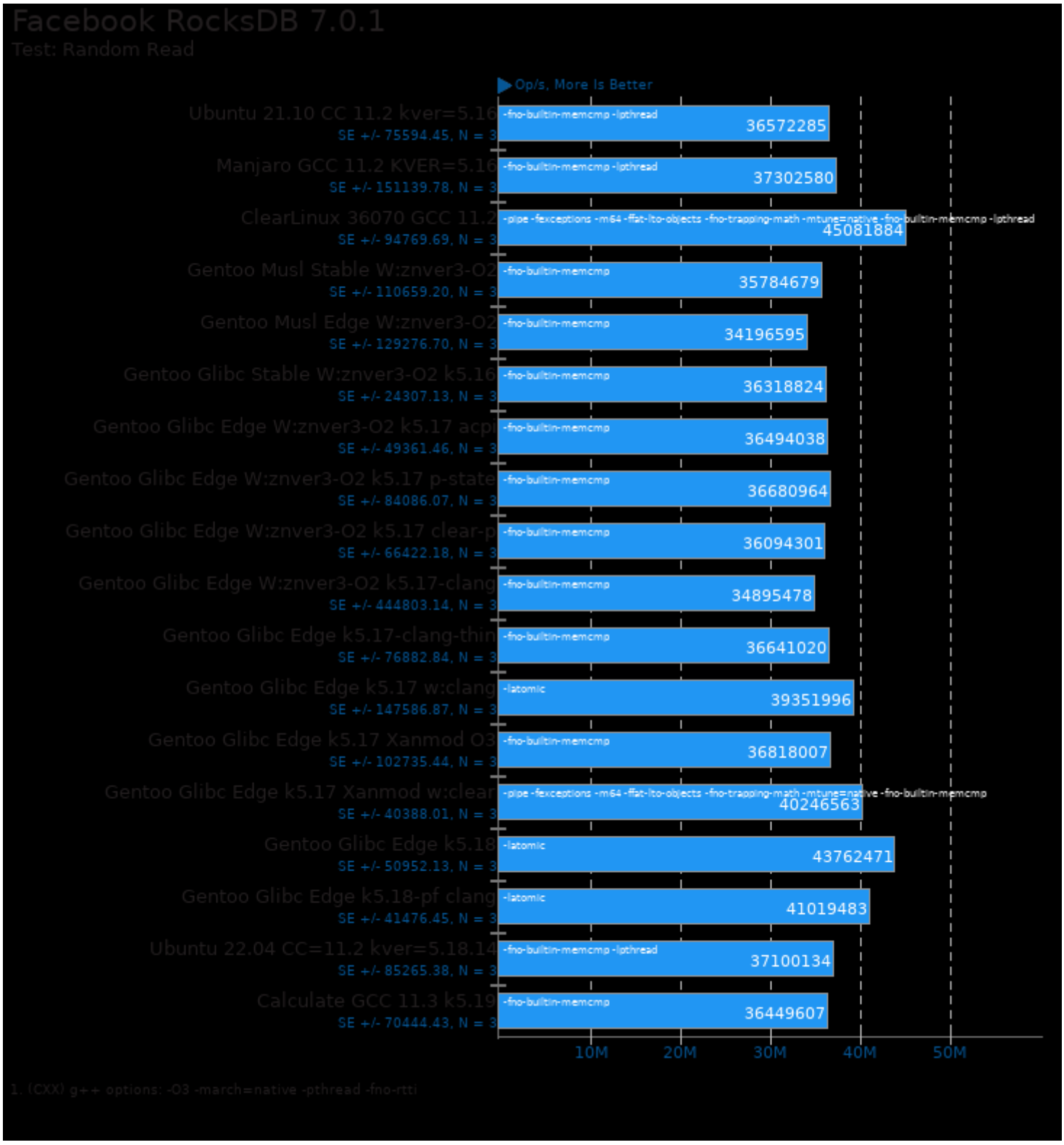


Kernel Bench

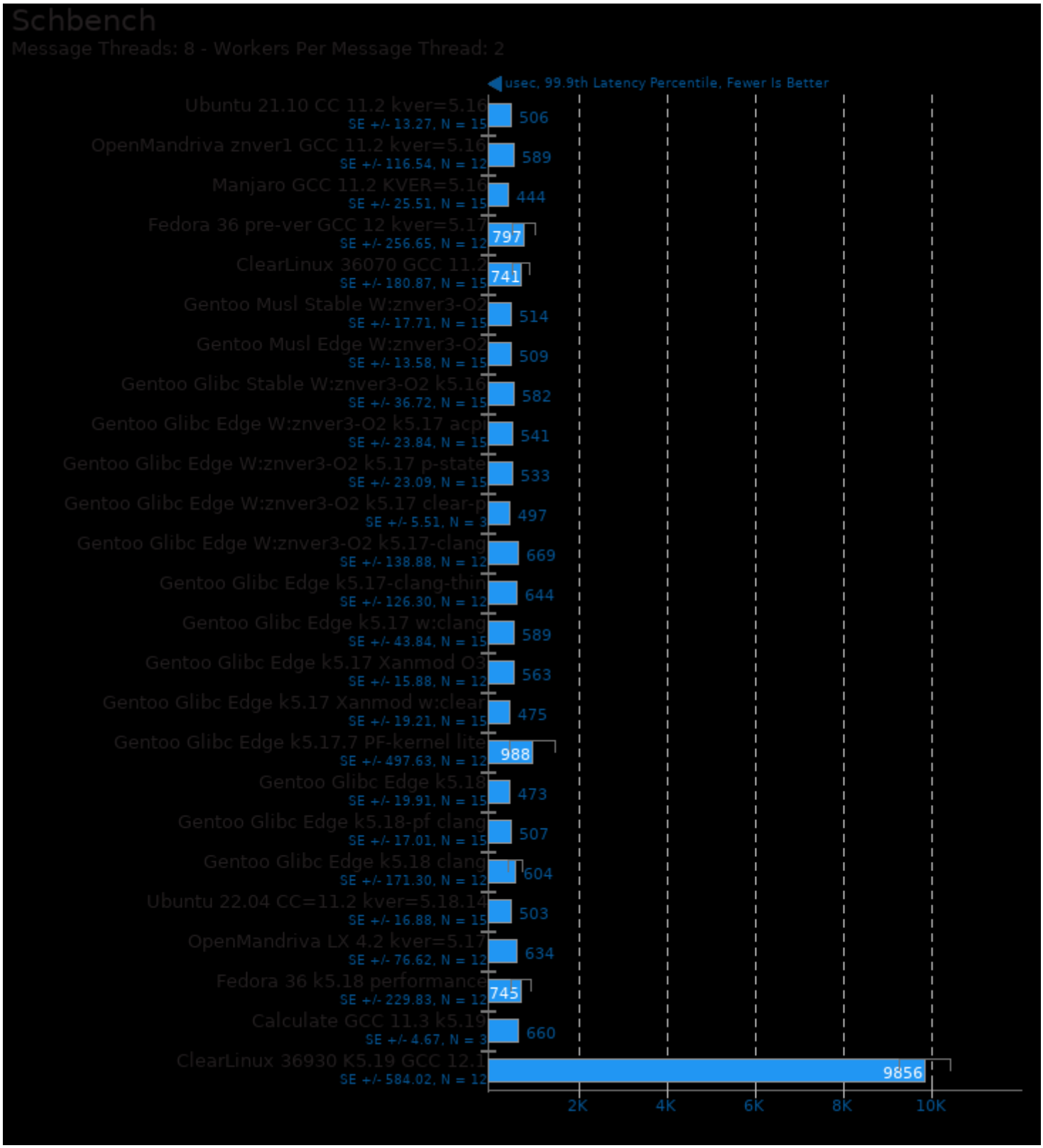


Kernel Bench




Facebook RocksDB 7.0.1
Test: Random Read
Op/s, More Is Better
Ubuntu 21.10 CC 11.2 kver=5.16
SE +/- 75594.45, N = 3
-fno-builtin-memcmp -lpthread
36572285
Manjaro GCC 11.2 KVER=5.16
SE +/- 151139.78, N = 3
-fno-builtin-memcmp -lpthread
37302580
ClearLinux 36070 GCC 11.2
SE +/- 94769.69, N = 3
-pipe -fexceptions -m64 -flat-lto-objects -fno-trapping-math -mtune=native -fno-builtin-memcmp -lpthread
45081884
Gentoo Musl Stable W:znver3-O2
SE +/- 110659.20, N = 3
-fno-builtin-memcmp
35784679
Gentoo Musl Edge W:znver3-O2
SE +/- 129276.70, N = 3
-fno-builtin-memcmp
34196595
Gentoo Glibc Stable W:znver3-O2 k5.16
SE +/- 24307.13, N = 3
-fno-builtin-memcmp
36318824
Gentoo Glibc Edge W:znver3-O2 k5.17 acpi
SE +/- 49361.46, N = 3
-fno-builtin-memcmp
36494038
Gentoo Glibc Edge W:znver3-O2 k5.17 p-state
SE +/- 84086.07, N = 3
-fno-builtin-memcmp
36680964
Gentoo Glibc Edge W:znver3-O2 k5.17 clear-p
SE +/- 66422.18, N = 3
-fno-builtin-memcmp
36094301
Gentoo Glibc Edge W:znver3-O2 k5.17-clang
SE +/- 444803.14, N = 3
-fno-builtin-memcmp
34895478
Gentoo Glibc Edge k5.17-clang-thin
SE +/- 76882.84, N = 3
-fno-builtin-memcmp
36641020
Gentoo Glibc Edge k5.17 w:clang
SE +/- 147586.87, N = 3
-latomic
39351996
Gentoo Glibc Edge k5.17 Xanmod O3
SE +/- 102735.44, N = 3
-fno-builtin-memcmp
36818007
Gentoo Glibc Edge k5.17 Xanmod w:clear
SE +/- 40388.01, N = 3
-pipe -fexceptions -m64 -flat-lto-objects -fno-trapping-math -mtune=native -fno-builtin-memcmp
40246563
Gentoo Glibc Edge k5.18
SE +/- 50952.13, N = 3
-latomic
43762471
Gentoo Glibc Edge k5.18-pf clang
SE +/- 41476.45, N = 3
-latomic
41019483
Ubuntu 22.04 CC=11.2 kver=5.18.14
SE +/- 85265.38, N = 3
-fno-builtin-memcmp -lpthread
37100134
Calculate GCC 11.3 k5.19
SE +/- 70444.43, N = 3
-fno-builtin-memcmp
36449607
10M
20M
30M
40M
50M
1. (CXX) g++ options: -O3 -march=native -pthread -fno-rtti

Kernel Bench



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 17:28.