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Pictures bench

AMD Ryzen 7 PRO 5850U testing with a LENOVO 20X7003WFR (R1KET36W 1.21 BIOS) and AMD Cezanne 1GB on Gentoo 2.8 via the Phoronix Test Suite.

Automated Executive Summary

ClearLinux 36070 GCC 11.2 had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (ClearLinux 36070 GCC 11.2) was 2.681x the speed of the slowest (OpenMandriva znver1 GCC 11.2).

Test Systems:

WSL2 Ubuntu

Processor: AMD Ryzen 7 PRO 5850U (8 Cores / 16 Threads), Memory: 8GB, Disk: 2 x 275GB Virtual Disk

OS: Ubuntu 20.04, Kernel: 5.10.16.3-microsoft-standard-WSL2 (x86_64), Display Server: Wayland, OpenGL: 3.3 Mesa

21.2.6, Vulkan: 1.1.182, Compiler: GCC 9.4.0, File-System: ext4, System Layer: wsl

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --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++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-yTrUTS/gcc-9-9.4.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-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: CPU Microcode: 0xffffffff
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: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

W11 native

Processor: AMD Ryzen 7 PRO 5850U @ 1.90GHz (8 Cores / 16 Threads), Motherboard: LENOVO 20X7003WFR (R1KET36W 1.21 BIOS), Memory: 1 x 16384 MB 3200MHz Hynix HMAA2GS6CJR8N-XN, Disk: 477GB SKHynix_HFS512GDE9X081N, Graphics: AMD Radeon 1GB, Audio: AMD HD Audio Device + Realtek HD Audio, Network: MediaTek Wi-Fi 6 MT7921 Wireless LAN Card + Realtek PCIe GbE

OS: Microsoft Windows 11 Professionnel Build 22000, Kernel: 10.0.22000.556 (x86_64), Display Driver: 30.0.13040.13, OpenCL: OpenCL 2.1 AMD-APP (3302.6), File-System: NTFS, Screen Resolution: 1920x1080

Security Notes: __user pointer sanitization: Disabled + Retpoline: Full + IBPB: Always + IBRS: Enabled + STIBP: Enabled + VBS: Enabled and running + HVCI: Running + MBEC: Available

Ubuntu 21.10

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: 5.13.0-35-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 and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of LFENCE IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

VoidLinux Musl GCC 10.2

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: 16GB, Disk: 512GB SK hynix HFS512GDE9X081N + 4GB USB DISK, Graphics: AMD Cezanne 1GB (2000/400MHz), Audio: AMD Device 1637, Network: Realtek RTL8111/8168/8411 + MEDIATEK Device 7961

OS: VoidLinux rolling, Kernel: 5.15.28_1 (x86_64), Desktop: Xfce 4.16, Display Server: X Server 1.21.1.3, OpenGL: 4.6 Mesa 21.3.7 (LLVM 12.0.1), Compiler: GCC 10.2.1 20201203 + Clang 12.0.1 + LLVM 12.0.1, File-System: f2fs, Screen

Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-musl --disable-gnu-unique-object --disable-libsanitizer --disable-libstdcxx-pch --disable-multilib --disable-nls --disable-sjlj-exceptions --disable-symvers --disable-target-libiberty --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-default-pie --enable-default-ssp --enable-languages=c,c++,objc,obj-c++,fortran,lto,go,ada --enable-lto --enable-plugins --enable-shared --enable-threads=posix --enable-vtable-verify --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
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 Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

OpenMandriva znver1 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/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

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

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 Beta1 Clang 13 port 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

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 GCC 11.2 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 MT7921 802.11ax PCI

OS: Gentoo 2.8, Kernel: 5.16.18-gentoo-r1 (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) - 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 Clang 14 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 2.8, Kernel: 5.17.3-gentoo (x86_64), Desktop: KDE Plasma 5.24.4, Display Server: X Server 1.21.1.3, 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 Clang 14 W:znver3-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: 5.17.3-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 11.3.0 + 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 with assertions; Default target: x86_64-unknown-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 GCC 11.3 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 GCC 12.1 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: 5.17.7-gentoo (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: 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

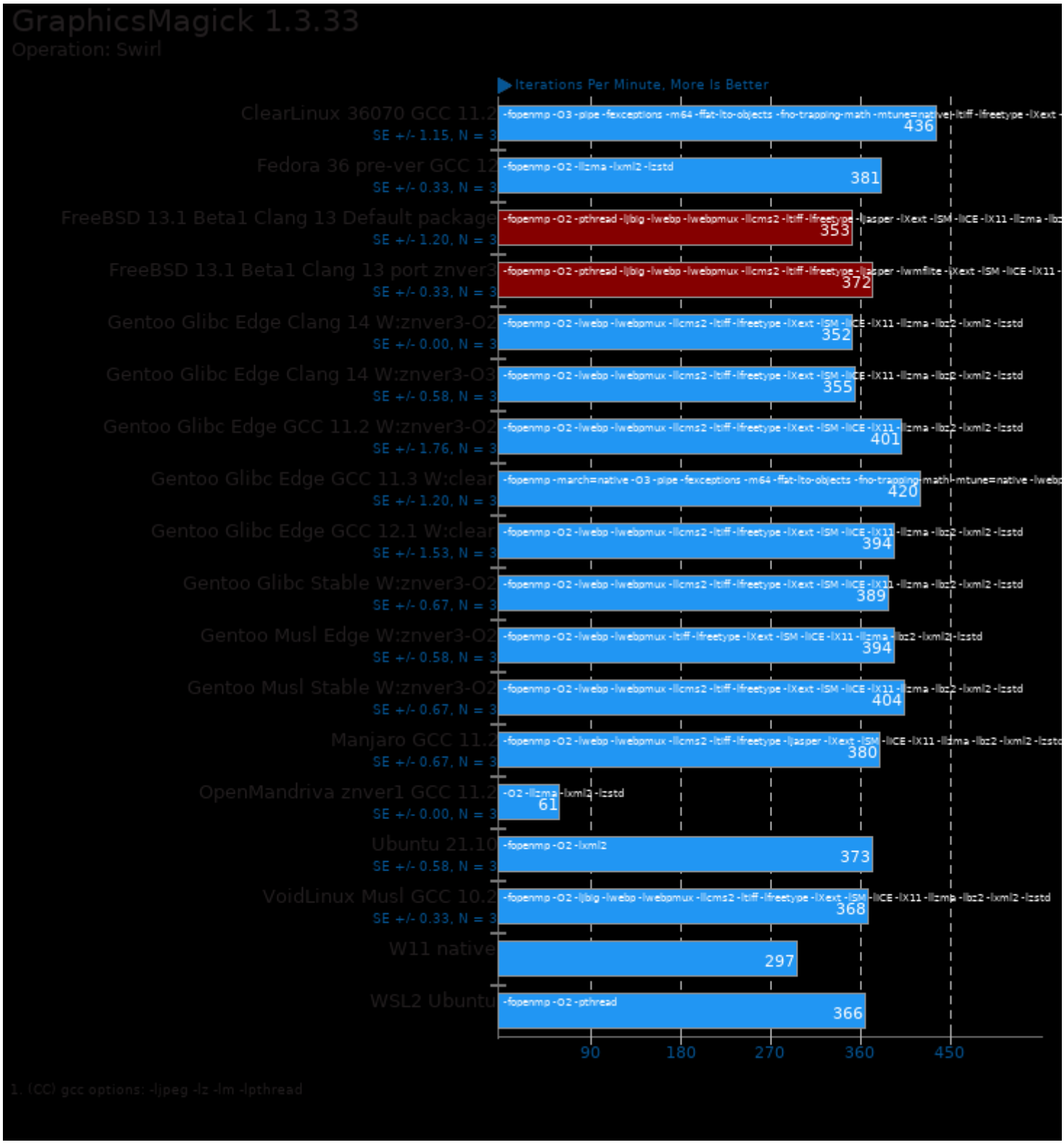
Pictures bench

	WSL 2 Ubuntu	W11 native	Ubuntu 21.10	Void Linux Musl GCC 10.2	OpenMandriva znver1 GCC 11.2	FreeBSD 13.1 Beta 1 Clang 13 Default package	Manjaro GCC 11.2	Fedora 36 pre-ver GCC 12	Clear Linux 36070 GCC 11.2	Gentoo Musl Stable W:znver3-O2	Gentoo Musl Edge W:znver3-O2	FreeBSD 13.1 Beta 1 Clang 13 port znver3	Gentoo Glibc Stable W:znver3-O2	Gentoo Glibc Edge GCC 11.2 W:znver3-O2	Gentoo Glibc Edge Clang 14 W:znver3-O2	Gentoo Glibc Edge Clang 14 W:znver3-O3	Gentoo Glibc Edge GCC 11.3 W:clear	Gentoo Glibc Edge GCC 12.1 W:clear
GraphicsMagick - Swirl (Iterations/	366	297	373	368	61	353	380	381	436	404	394	372	389	401	352	355	420	394
Normalized	83.94%	68.12%	85.55%	84.4%	13.99%	80.96%	87.16%	87.39%	100%	92.66%	90.37%	85.32%	89.22%	91.97%	80.73%	81.42%	96.33%	90.37%
Standard Deviation			0.3%	0.2%	0%	0.6%	0.3%	0.2%	0.5%	0.3%	0.3%	0.2%	0.3%	0.8%	0%	0.3%	0.5%	0.7%
GraphicsMagick - Rotate (Iterations/	718	299	602	563	727	658	759	706	846	686	733	505	811	809	744	729	725	816
Normalized	84.87%	35.34%	71.16%	66.55%	85.93%	77.78%	89.72%	83.45%	100%	81.09%	86.64%	59.69%	95.86%	95.63%	87.94%	86.17%	85.7%	96.45%
Standard Deviation		0.5%	0.9%	1.2%	0.7%	0.5%	0.6%	0.4%	0.3%	0.3%	0.3%	3.2%	0.4%	0.3%	0.2%	1.3%	0.3%	0.2%
GraphicsMagick - HWB Color Space (Iterations/	782	322	666	760	273	830	735	680	922	901	898	1206	840	856	585	579	742	861
Normalized	64.84%	26.7%	55.22%	63.02%	22.64%	68.82%	60.95%	56.38%	76.45%	74.71%	74.46%	100%	69.65%	70.98%	48.51%	48.01%	61.53%	71.39%
Standard Deviation	0.9%		0.5%	0.7%	0.2%	0%	0.1%	0.1%	0.5%	0.3%	0.7%	0.5%	0.6%	0.8%	0.4%	0.2%	0.3%	0.9%
libjpeg-turbo tjbench - D.T (Megapixels/sec)	249.77266	234.56451	234.14685	234.17447	238.99282	225.33299	248.24673	257.68817	249.27192	239.08045	238.47159	225.70450	248.34360	245.59778	250.26454	247.87889	247.32641	242.78127
Normalized	96.93%	91.03%	90.86%	90.88%	92.74%	87.44%	96.34%	100%	96.73%	92.78%	92.54%	87.59%	96.37%	95.31%	97.12%	96.19%	95.98%	94.22%
Standard Deviation	0.2%	0.5%	1.8%	0.4%	0%	11.7%	0.1%	0.6%	0.1%	0.1%	0.1%	12.3%	0.2%	0.2%	0.2%	0.3%	0.2%	0.2%
LibRaw - P.P.B (Mpix/sec)	33.64	10.44	34.65	37.13	13.33	30.27	41.41	45.89	63.02	44.06	44.97	33.08	41.50	42.76	38.25	38.07	60.91	47.13
Normalized	53.38%	16.57%	54.98%	58.92%	21.15%	48.03%	65.71%	72.82%	100%	69.91%	71.36%	52.49%	65.85%	67.85%	60.7%	60.41%	96.65%	74.79%

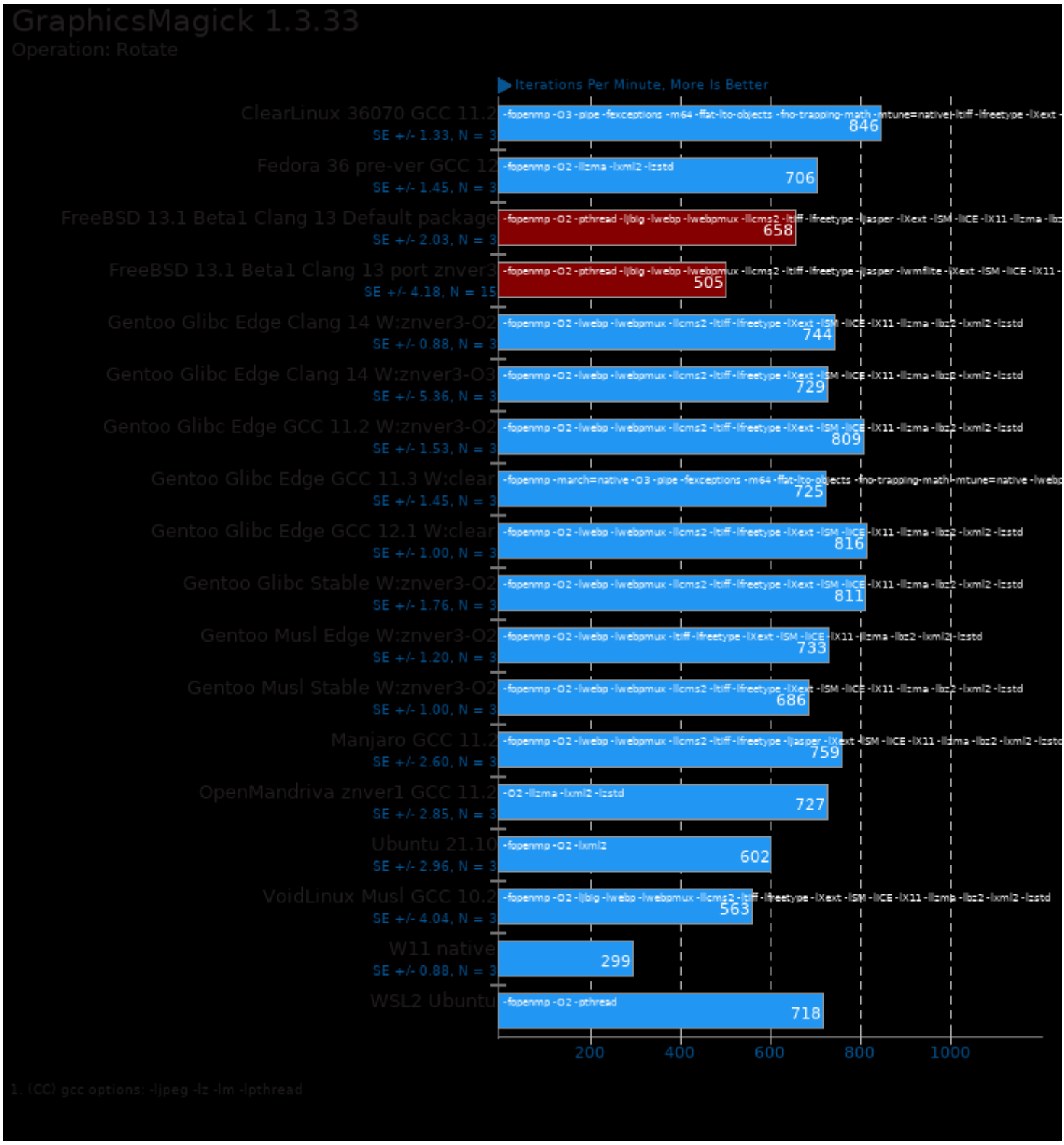
Pictures bench

Standard Deviation	0.3%	0%	0.1%	0.5%	0.1%	1.7%	0.2%	0.4%	0.2%	2.3%	0.4%	1.6%	0.3%	0.4%	0.7%	0.3%	0.5%	0.2%
WebP Image Encode - Default (Encode Time - sec)	1.252	**1.348**	1.204	1.212	1.193		1.196	1.188	1.121	1.222	1.209		1.204	1.208	**1.105**	1.120	1.117	1.197
Normalized	88.26%	81.97%	91.78%	91.17%	92.62%		92.39%	93.01%	98.57%	90.43%	91.4%		91.78%	91.47%	100%	98.66%	98.93%	92.31%
Standard Deviation	0.1%	0.2%	0%	0.2%	0.7%		0.2%	0.1%	0.4%	0.2%	0%		0.4%	0.1%	0.2%	0.1%	0.1%	0%
WebP Image Encode - Q.1.L (Encode Time - sec)	14.348	15.824	**17.305**	16.781	14.642		14.342	14.379	13.871	17.222	14.383		**13.549**	13.689	14.887	14.926	15.614	13.844
Normalized	94.43%	85.62%	78.3%	80.74%	92.54%		94.47%	94.23%	97.68%	78.67%	94.2%		100%	98.98%	91.01%	90.77%	86.77%	97.87%
Standard Deviation	2.7%	0.2%	1.1%	0.3%	0.1%		0.1%	1.1%	0%	1.2%	0.9%		0.3%	0.2%	0.2%	0%	1.1%	0.2%
libavif avifenc - 6, Lossless (sec)	82.819	**83.523**	83.022	81.999	75.648		76.461	77.127	**72.415**	77.747	78.814		76.916	75.201			76.798	76.658
Normalized	87.44%	86.7%	87.22%	88.31%	95.73%		94.71%	93.89%	100%	93.14%	91.88%		94.15%	96.3%			94.29%	94.47%
Standard Deviation	2.5%	9.9%	0%	0.3%	0.7%		0.5%	0.6%	0.6%	0.6%	0.2%		0.4%	1.1%			0.4%	0.2%

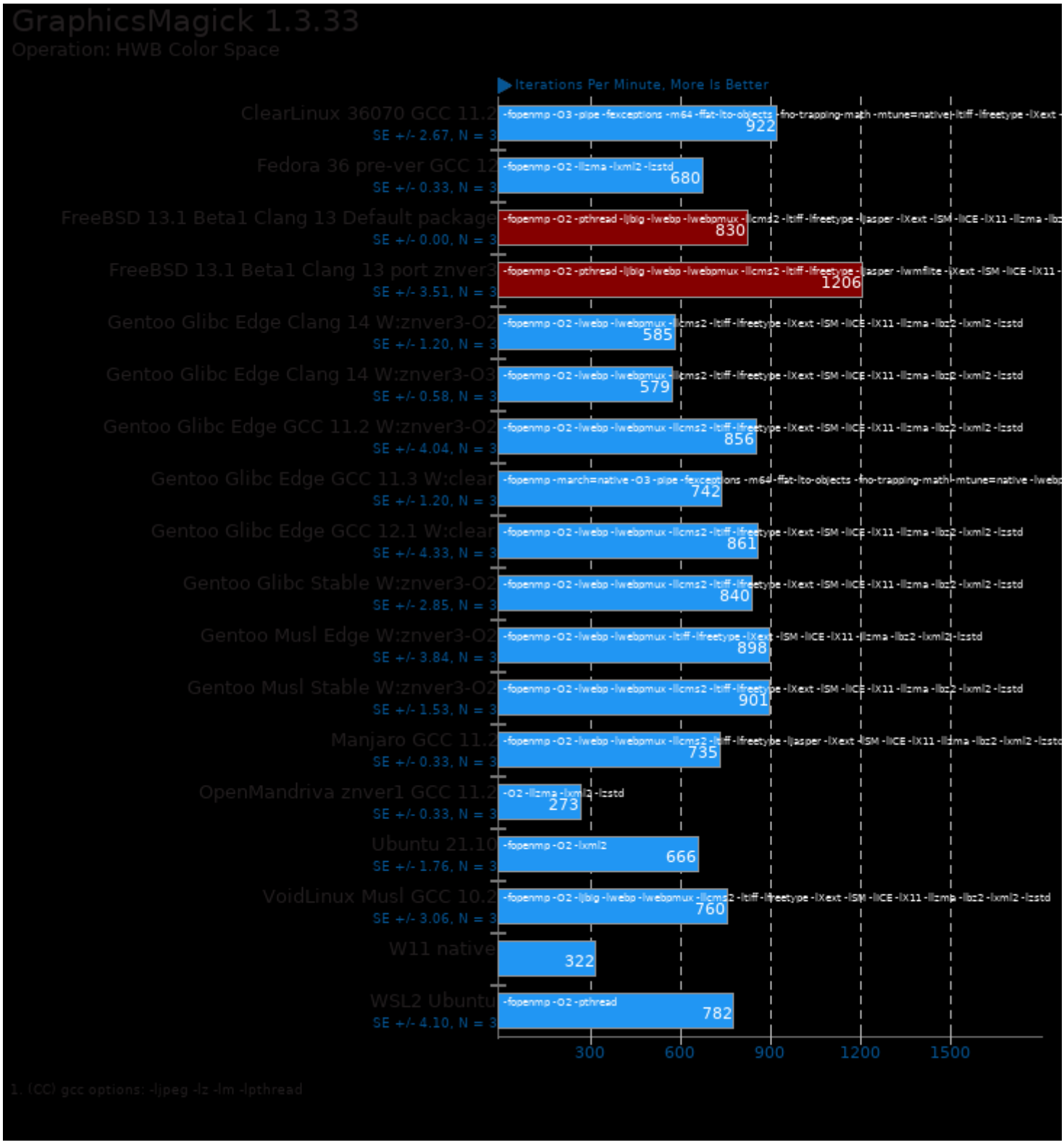
Pictures bench



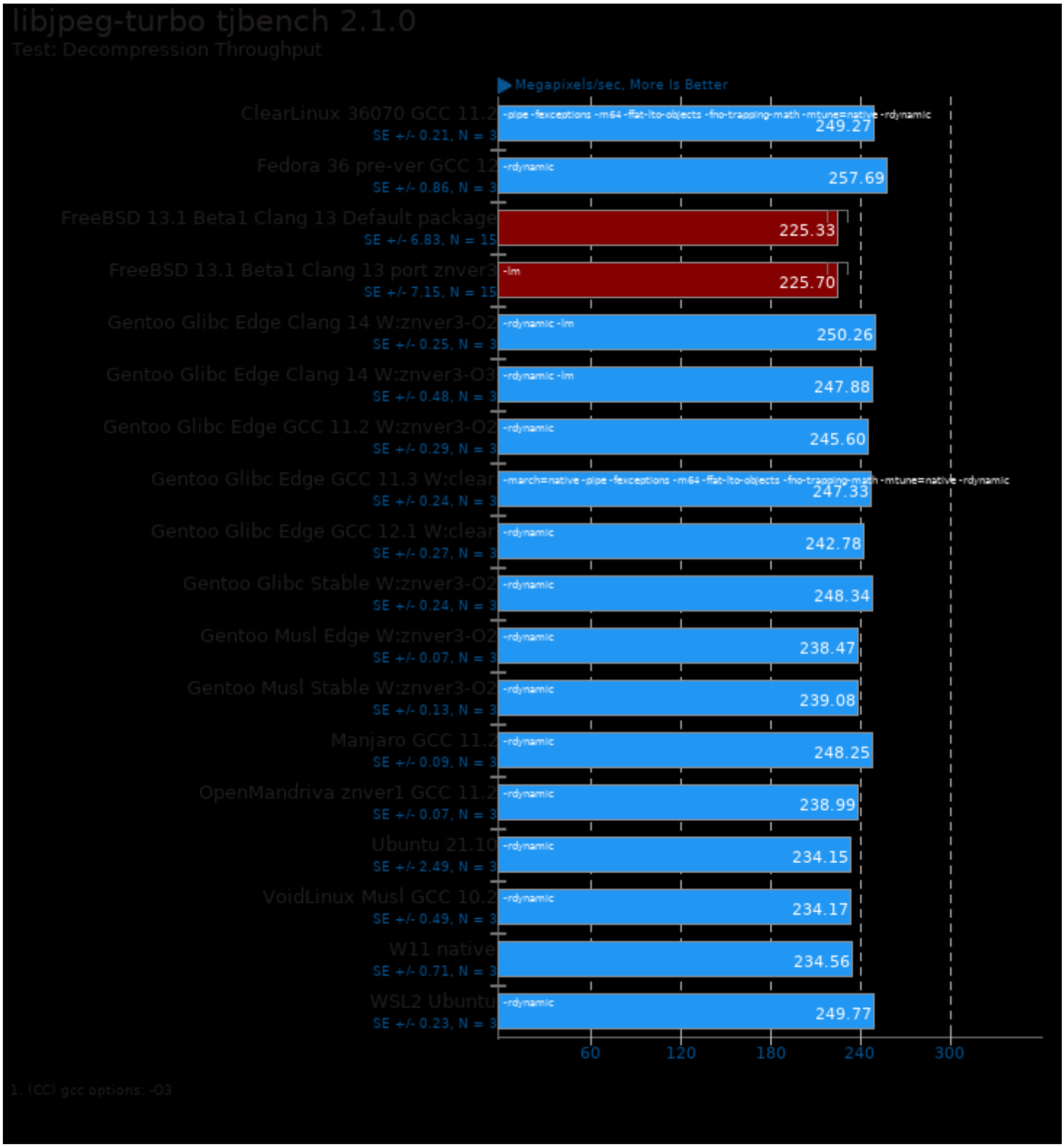
Pictures bench



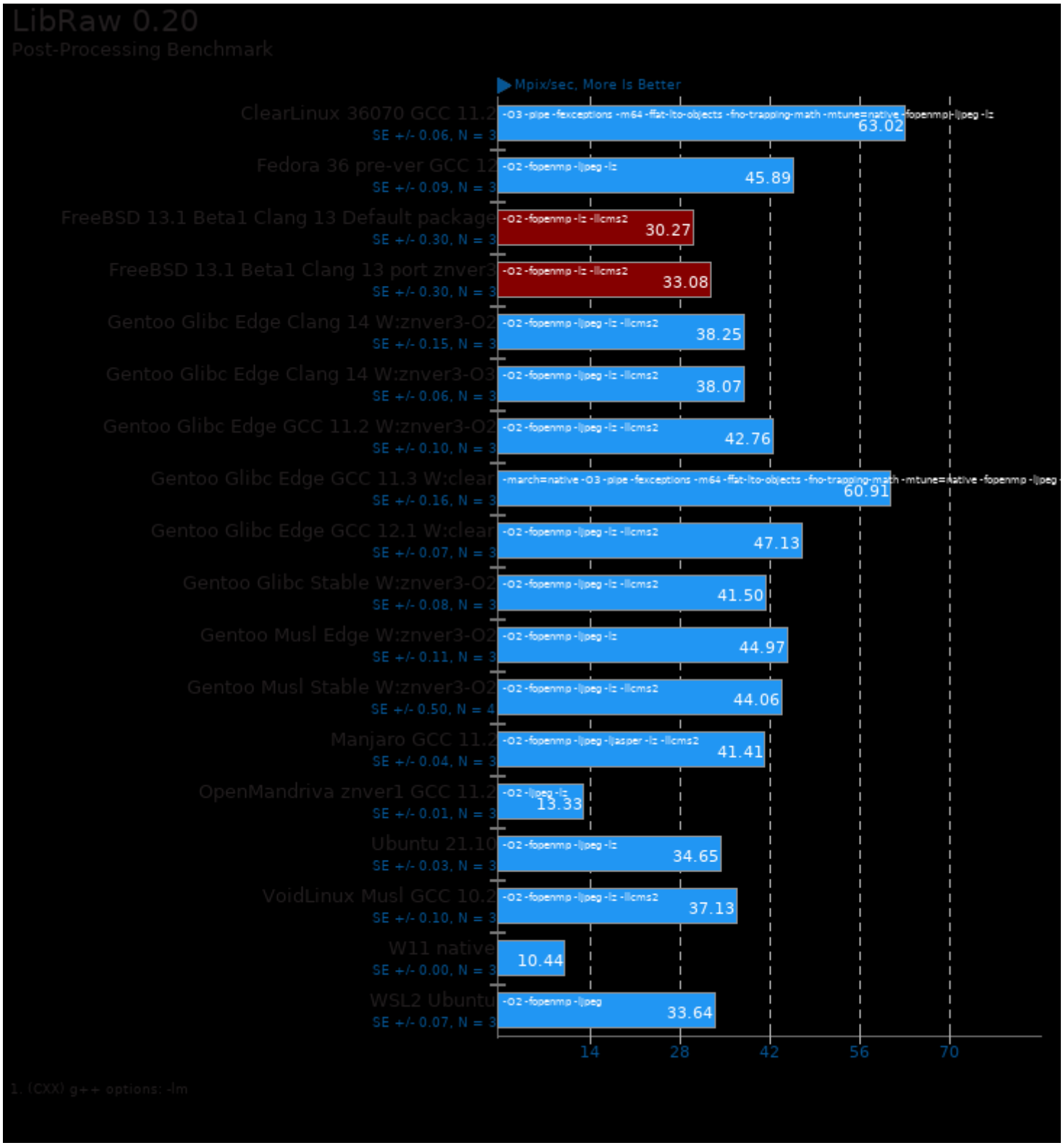
Pictures bench

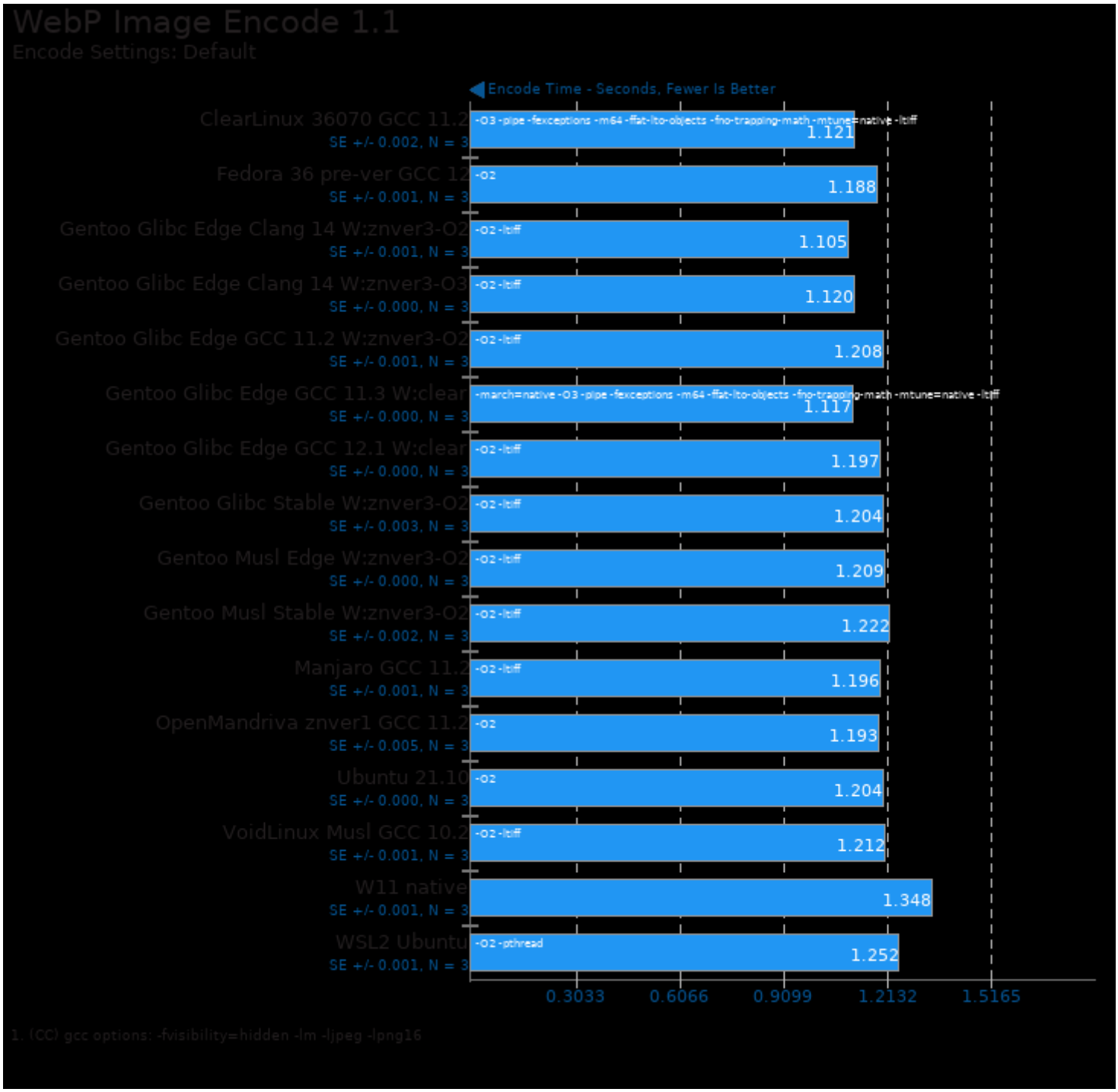


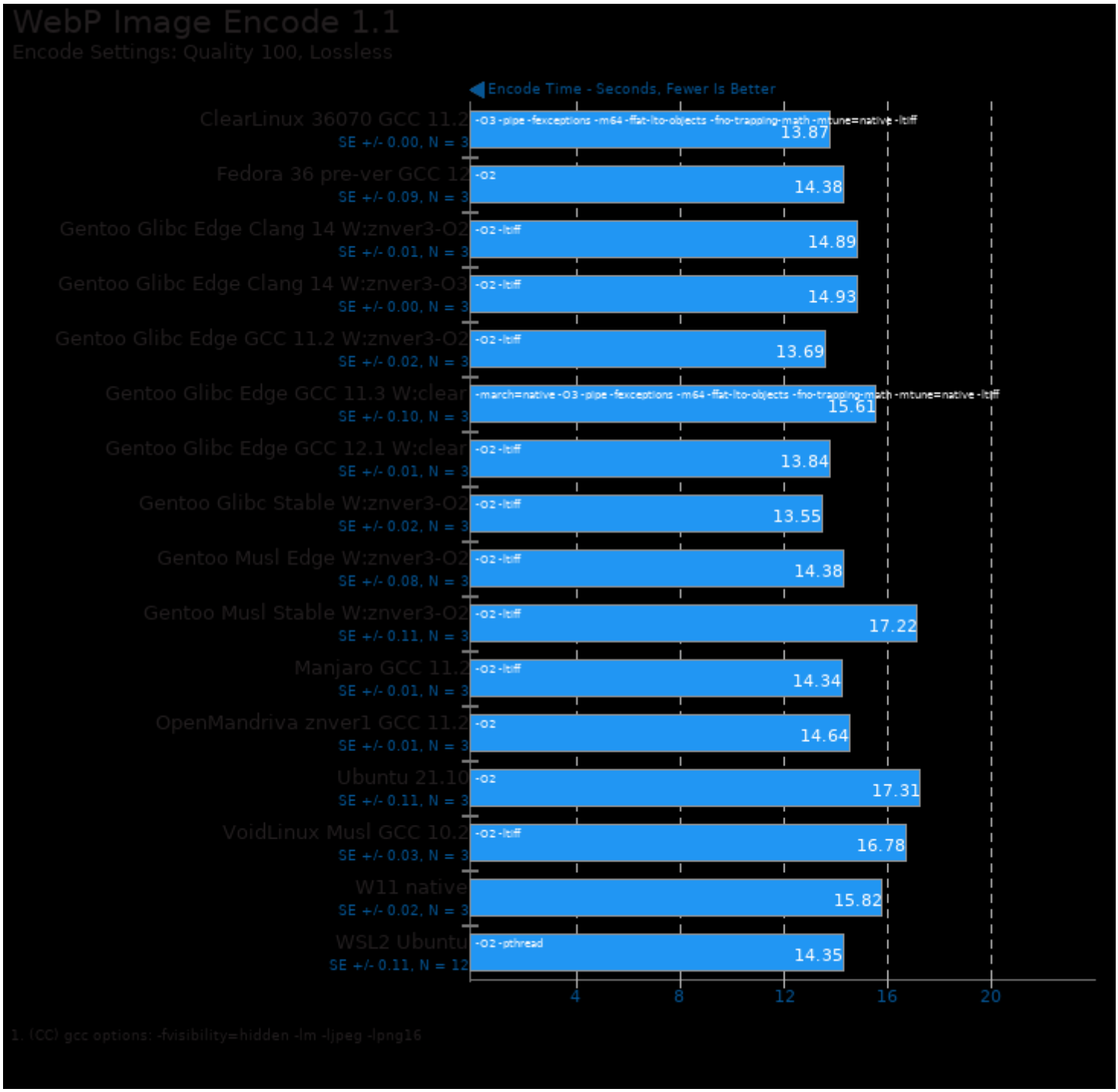
Pictures bench



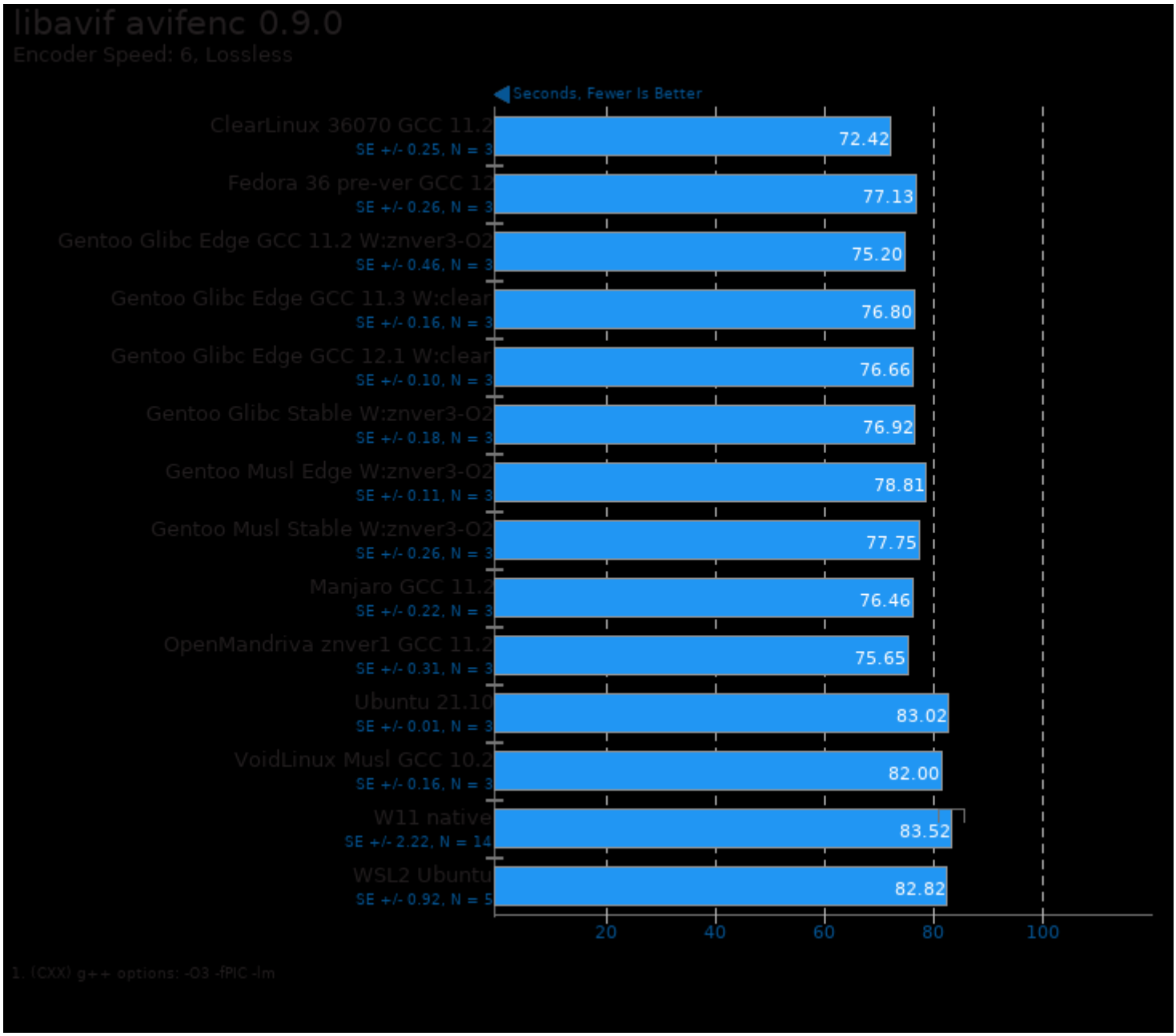
Pictures bench




WebP Image Encode 1.1
Encode Settings: Default
Encode Time - Seconds, Fewer Is Better
ClearLinux 36070 GCC 11.2
SE +/- 0.002, N = 3
-O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mtune=native -ltiff
1.121
Fedora 36 pre-ver GCC 12
SE +/- 0.001, N = 3
-O2
1.188
Gentoo Glibc Edge Clang 14 W:znver3-O2
SE +/- 0.001, N = 3
-O2 -ltiff
1.105
Gentoo Glibc Edge Clang 14 W:znver3-O3
SE +/- 0.000, N = 3
-O2 -ltiff
1.120
Gentoo Glibc Edge GCC 11.2 W:znver3-O2
SE +/- 0.001, N = 3
-O2 -ltiff
1.208
Gentoo Glibc Edge GCC 11.3 W:clear
SE +/- 0.000, N = 3
-march=native -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mtune=native -ltiff
1.117
Gentoo Glibc Edge GCC 12.1 W:clear
SE +/- 0.000, N = 3
-O2 -ltiff
1.197
Gentoo Glibc Stable W:znver3-O2
SE +/- 0.003, N = 3
-O2 -ltiff
1.204
Gentoo Musl Edge W:znver3-O2
SE +/- 0.000, N = 3
-O2 -ltiff
1.209
Gentoo Musl Stable W:znver3-O2
SE +/- 0.002, N = 3
-O2 -ltiff
1.222
Manjaro GCC 11.2
SE +/- 0.001, N = 3
-O2 -ltiff
1.196
OpenMandriva znver1 GCC 11.2
SE +/- 0.005, N = 3
-O2
1.193
Ubuntu 21.10
SE +/- 0.000, N = 3
-O2
1.204
VoidLinux Musl GCC 10.2
SE +/- 0.001, N = 3
-O2 -ltiff
1.212
W11 native
SE +/- 0.001, N = 3
1.348
WSL2 Ubuntu
SE +/- 0.001, N = 3
-O2 -pthread
1.252
0.3033
0.6066
0.9099
1.2132
1.5165
1. (CC) gcc options: -fvisibility=hidden -lm -ljpeg -lpng16

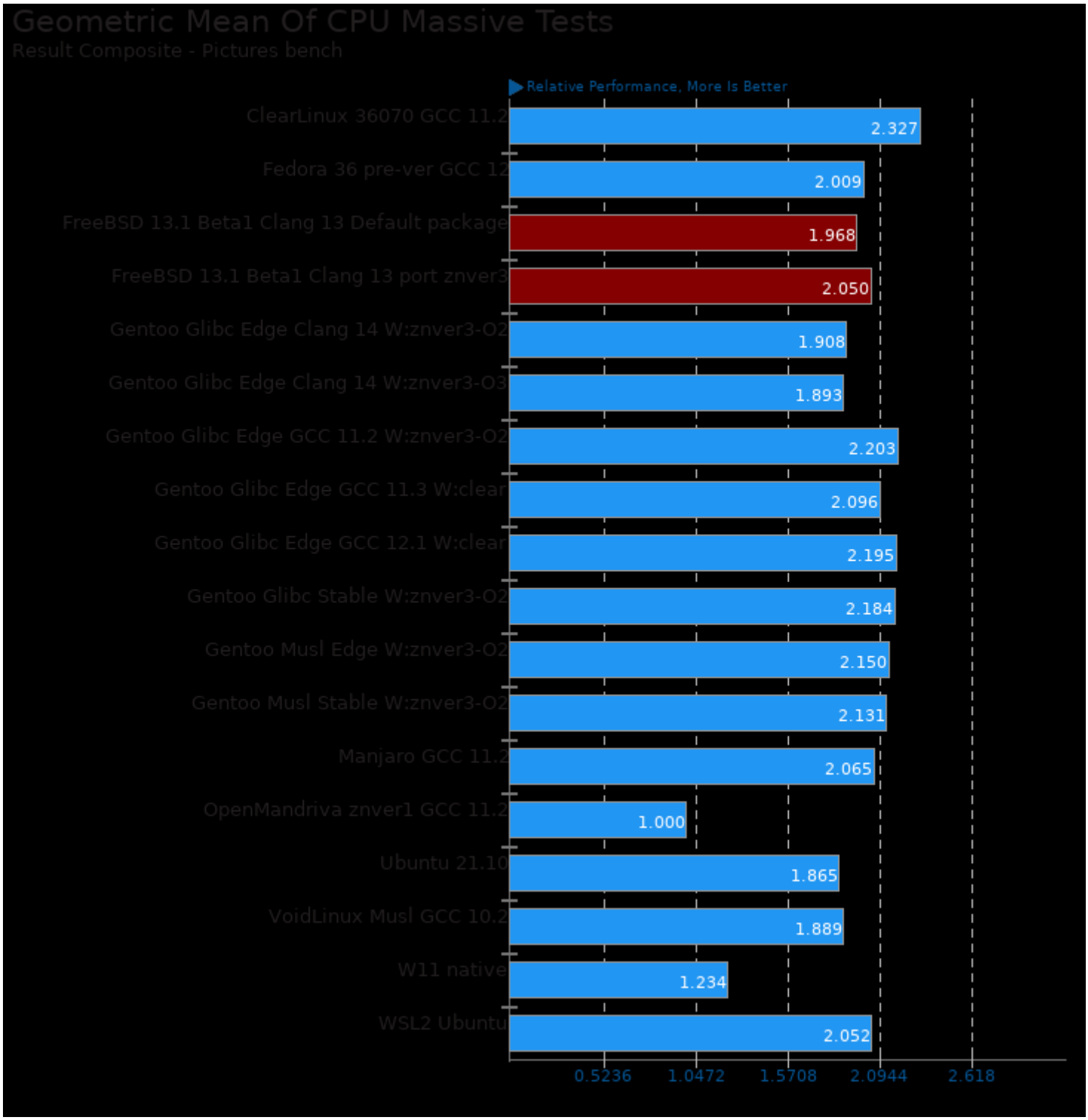

WebP Image Encode 1.1
Encode Settings: Quality 100, Lossless
Encode Time - Seconds, Fewer Is Better
ClearLinux 36070 GCC 11.2
SE +/- 0.00, N = 3
-O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mtune=native -ltiff
13.87
Fedora 36 pre-ver GCC 12
SE +/- 0.09, N = 3
-O2
14.38
Gentoo Glibc Edge Clang 14 W:znver3-O2
SE +/- 0.01, N = 3
-O2 -ltiff
14.89
Gentoo Glibc Edge Clang 14 W:znver3-O3
SE +/- 0.00, N = 3
-O2 -ltiff
14.93
Gentoo Glibc Edge GCC 11.2 W:znver3-O2
SE +/- 0.02, N = 3
-O2 -ltiff
13.69
Gentoo Glibc Edge GCC 11.3 W:clear
SE +/- 0.10, N = 3
-march=native -O3 -pipe -fexceptions -m64 -ffat-lto-objects -fno-trapping-math -mtune=native -ltiff
15.61
Gentoo Glibc Edge GCC 12.1 W:clear
SE +/- 0.01, N = 3
-O2 -ltiff
13.84
Gentoo Glibc Stable W:znver3-O2
SE +/- 0.02, N = 3
-O2 -ltiff
13.55
Gentoo Musl Edge W:znver3-O2
SE +/- 0.08, N = 3
-O2 -ltiff
14.38
Gentoo Musl Stable W:znver3-O2
SE +/- 0.11, N = 3
-O2 -ltiff
17.22
Manjaro GCC 11.2
SE +/- 0.01, N = 3
-O2 -ltiff
14.34
OpenMandriva znver1 GCC 11.2
SE +/- 0.01, N = 3
-O2
14.64
Ubuntu 21.10
SE +/- 0.11, N = 3
-O2
17.31
VoidLinux Musl GCC 10.2
SE +/- 0.03, N = 3
-O2 -ltiff
16.78
W11 native
SE +/- 0.02, N = 3
15.82
WSL2 Ubuntu
SE +/- 0.11, N = 12
-O2 -pthread
14.35
4
8
12
16
20
1. (CC) gcc options: -fvisibility=hidden -lm -ljpeg -lpng16

Pictures bench



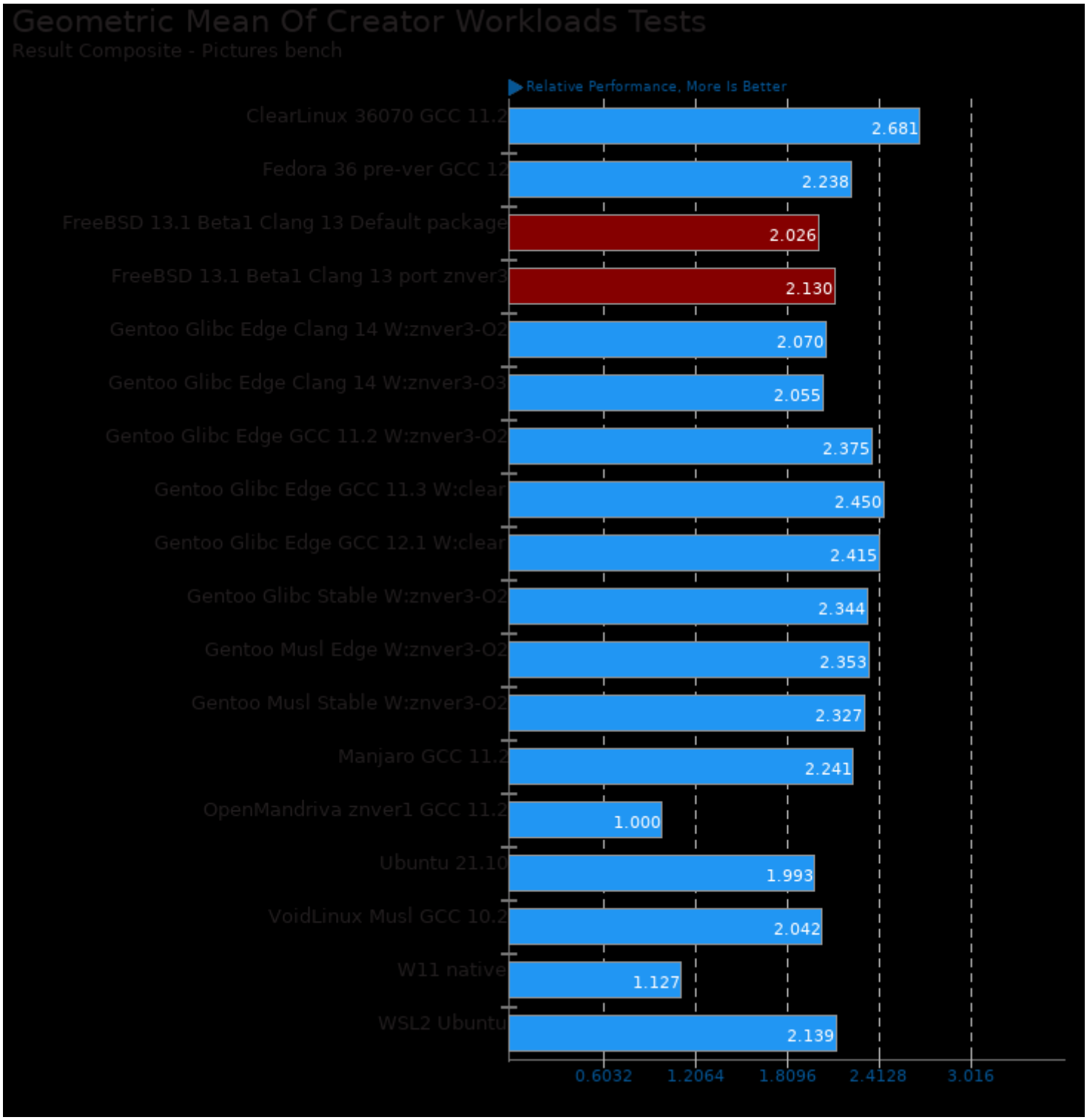
Pictures bench

These geometric means are based upon test groupings / test suites for this result file.



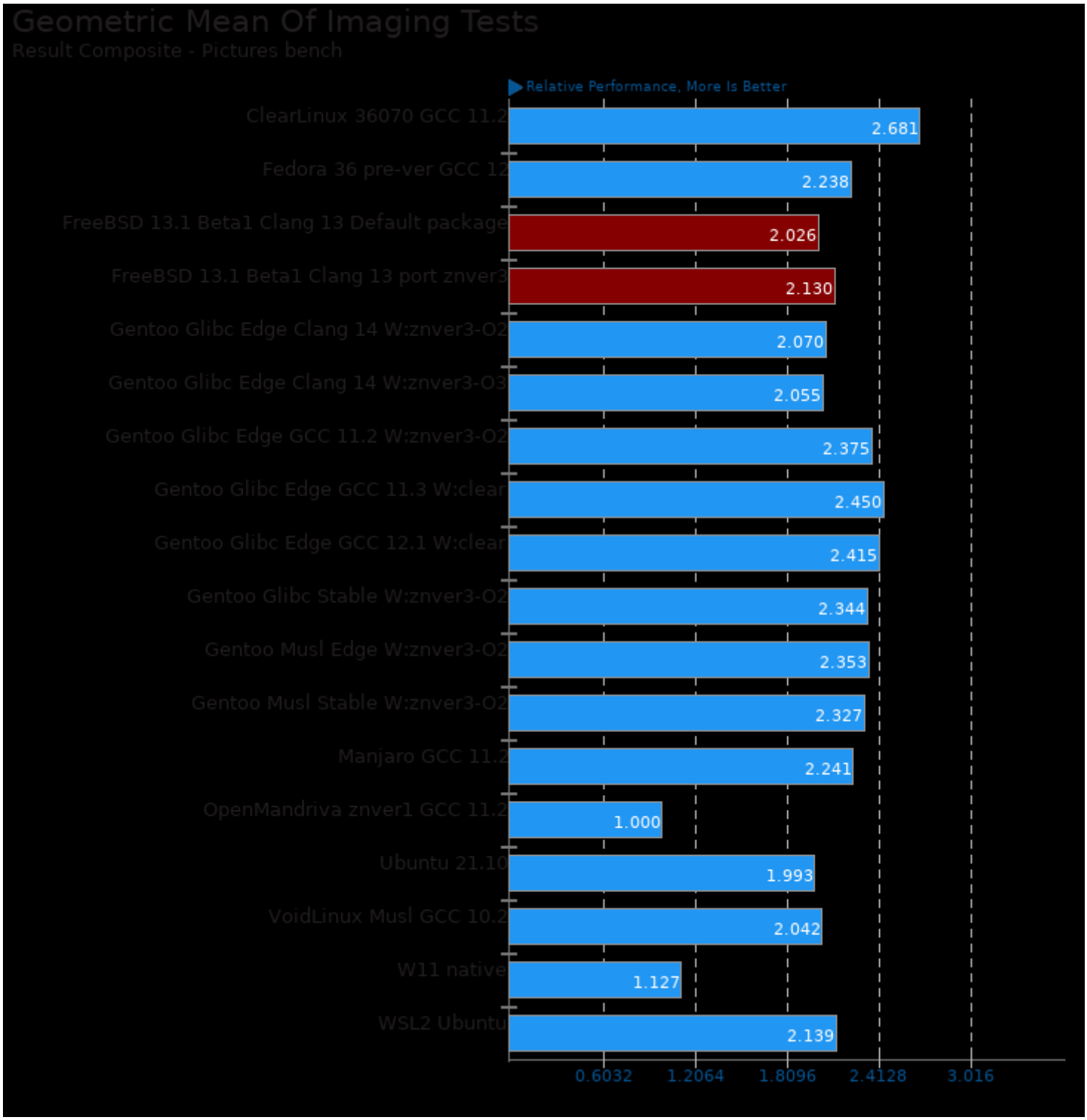
Geometric mean based upon tests: pts/graphics-magick and pts/tjbench

Pictures bench



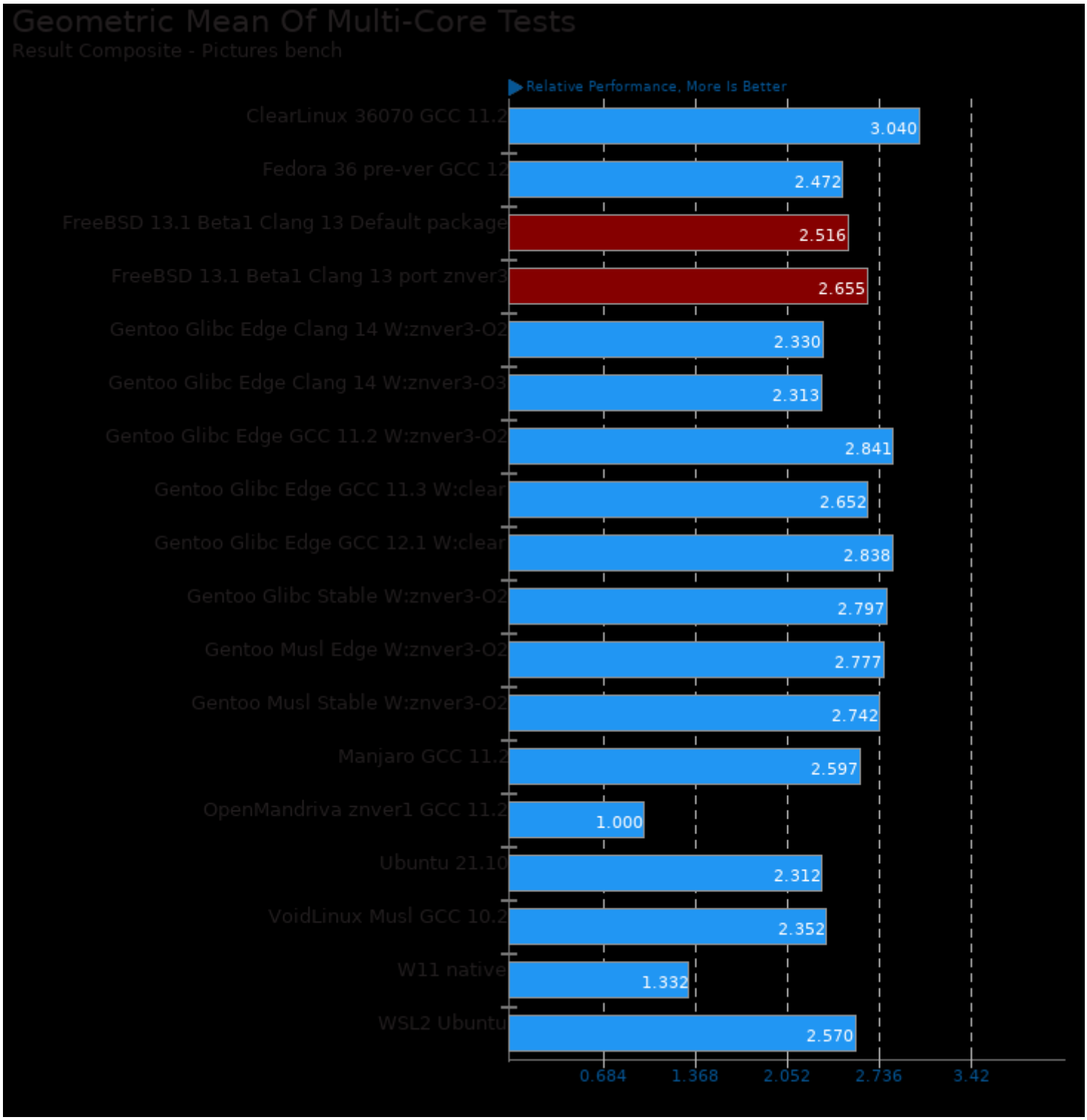
Geometric mean based upon tests: pts/avifenc, pts/graphics-magick, pts/libraw, pts/webp and pts/tjbench

Pictures bench



Geometric mean based upon tests: pts/graphics-magick, pts/libraw, pts/webp, pts/tjbench and pts/avifenc

Pictures bench



Geometric mean based upon tests: pts/avifenc and pts/graphics-magick

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