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Clear Linux Tiger Lake

Intel Core i7-1165G7 testing with a Dell 0GG9PT (1.0.3 BIOS) and Intel UHD 3GB on Fedora 33 via the Phoronix Test Suite.

Automated Executive Summary

Fedora Workstation 33 had the most wins, coming in first place for 53% of the tests.

Based on the geometric mean of all complete results, the fastest (Fedora Workstation 33) was 1.137x the speed of the slowest (Manjaro 20.2). Clear Linux 34130 was 0.948x the speed of Fedora Workstation 33 and Manjaro 20.2 was 0.928x the speed of Clear Linux 34130.

The results with the greatest spread from best to worst included:

Darktable (Test: Boat - Acceleration: CPU-only) at 1.572x

SVT-VP9 (Tuning: Visual Quality Optimized - Input: Bosphorus 1080p) at 1.54x

librsvg (Operation: SVG Files To PNG) at 1.41x

libavif avifenc (Encoder Speed: 10) at 1.392x

GIMP (Test: resize) at 1.355x

Timed Linux Kernel Compilation (Time To Compile) at 1.341x

Selenium (Benchmark: Maze Solver - Browser: Firefox) at 1.3x

Timed FFmpeg Compilation (Time To Compile) at 1.28x

ASTC Encoder (Preset: Thorough) at 1.259x
 TensorFlow Lite (Model: Inception V4) at 1.24x.

Test Systems:

Clear Linux 34130

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0GG9PT (1.0.3 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 16GB, Disk: Kioxia KBG40ZNS256G NVMe 256GB, Graphics: Intel UHD 3GB (1300MHz), Audio: Intel Tiger Lake-LP Smart Sound Audio, Network: Intel Wi-Fi 6 AX201

OS: Clear Linux OS 34130, Kernel: 5.9.16-1009.native (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.10, Display Driver: modesetting 1.20.10, OpenGL: 4.6 Mesa 20.3.1, OpenCL: OpenCL 2.1, Vulkan: 1.2.145, Compiler: GCC 10.2.1 20201222 releases/gcc-10.2.0-649-g03e2d83f59 + Clang 10.0.1 + LLVM 10.0.1, File-System: ext4, Screen Resolution: 1920x1200

```
Environment Notes: FFLAGS="-g -O3 -feliminate-unused-debug-types -pipe -Wall -Wp,-D_FORTIFY_SOURCE=2 -fexceptions -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -fstack-distribute-patterns -WI,-z -WI,now -WI,-z -WI,retro -malign-data=abi -fno-semantic-interposition -fstack-vectorize -fstack-vectorize -WI,--enable-new-dtags -Wa,-mbranches-within-32B-boundaries" CXXFLAGS="-g -O3 -feliminate-unused-debug-types -fstack-protector --param=ssp-buffer-size=32 -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -fstack-distribute-patterns -WI,-z -WI,now -WI,-z -WI,retro -fno-semantic-interposition -fstack-objects -fno-trapping-math -WI,-sort-common -WI,--enable-new-dtags -mtune=skylake -Wa,-mbranches-within-32B-boundaries -fvisibility-inlines-hidden -WI,--enable-new-dtags" MESA_GLSL_CACHE_DISABLE=0 FCFLAGS="-g -O3 -feliminate-unused-debug-types -fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -fstack-distribute-patterns -WI,-z -WI,now -WI,-z -WI,retro -malign-data=abi -fno-semantic-interposition -fstack-vectorize -fstack-vectorize -WI,--enable-new-dtags" CFLAGS="-g -O3 -feliminate-unused-debug-types -fstack-protector --param=ssp-buffer-size=32 -Wformat -Wformat-security -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -fstack-distribute-patterns -WI,-z -WI,now -WI,-z -WI,retro -fno-semantic-interposition -fstack-objects -fno-trapping-math -WI,-sort-common -WI,--enable-new-dtags -mtune=skylake -Wa,-mbranches-within-32B-boundaries" THEANO_FLAGS="floatX=float32,openmp=true,gcc.cxxflags=-fstack-protector --param=ssp-buffer-size=32 -m64 -fasynchronous-unwind-tables -Wp,-D_REENTRANT -fstack-distribute-patterns -WI,-z -WI,now -WI,-z -WI,retro -fno-semantic-interposition -fstack-objects -fno-trapping-math -WI,-sort-common -WI,--enable-new-dtags -mtune=skylake -Wa,-mbranches-within-32B-boundaries" 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-languages=c,c++,fortran,go --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=westmere --with-gcc-major-version-only --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
```

Disk Notes: BFQ / relatime,rw,stripe=256 / Block Size: 4096

Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x60 - Thermald 2.4.1

Python Notes: Python 3.9.1

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/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbs: Not affected + tsx_async_abort: Not affected

Manjaro 20.2

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0GG9PT (1.0.3 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 16GB, Disk: Kioxia KBG40ZNS256G NVMe 256GB, Graphics: Intel UHD 3GB (1300MHz), Audio: Intel Tiger Lake-LP Smart Sound Audio, Network: Intel Wi-Fi 6 AX201

OS: ManjaroLinux 20.2, Kernel: 5.9.11-3-MANJARO (x86_64), Desktop: Xfce 4.14, Display Server: X Server 1.20.10, Display Driver: intel 2.99.917, OpenGL: 4.6 Mesa 20.2.3, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1200

```
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style-gnu
```

Disk Notes: NONE / noatime,rw / Block Size: 4096

Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x60

Graphics Notes: SNA

Python Notes: Python 3.8.6

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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Fedora Workstation 33

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0GG9PT (1.0.3 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 16GB, Disk: Kioxia KBG40ZNS256G NVMe 256GB, Graphics: Intel UHD 3GB (1300MHz), Audio: Intel Tiger Lake-LP Smart Sound Audio, Network: Intel Wi-Fi 6 AX201

OS: Fedora 33, Kernel: 5.8.15-301.fc33.x86_64 (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 20.2.6, Compiler: GCC 10.2.1 20201125 + Clang 11.0.0, File-System: btrfs, Screen Resolution: 1920x1200

Compiler Notes: --build=x86_64-redhat-linux --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,objc,obj-c++,ada,go,d,lto --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=i686 --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver

Disk Notes: NONE / relatime,rw,seclabel,space_cache,ssd,subvol=/home,subvolid=256 / Block Size: 4096

Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x60

Python Notes: Python 3.9.1

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 and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	Clear Linux 34130	Manjaro 20.2	Fedora Workstation
LevelDB - Hot Read (us/Op)	3.701	3.545	3.568
Normalized	95.78%	100%	99.36%
Standard Deviation	2.3%	1.1%	0.6%
LevelDB - Fill Sync (MB/s)	37.4	28.1	26.0
Normalized	100%	75.13%	69.52%
Standard Deviation	1.6%	19.5%	11.2%
LevelDB - Fill Sync (us/Op)	23.320	32.583	34.030
Normalized	100%	71.57%	68.53%
Standard Deviation	1.9%	24.1%	14.6%
LevelDB - Rand Fill (MB/s)	42.2	43.0	34.8
Normalized	98.14%	100%	80.93%
Standard Deviation	0.1%	1%	1.3%
LevelDB - Rand Fill (us/Op)	20.933	20.563	25.436
Normalized	98.23%	100%	80.84%
Standard Deviation	0.2%	1.1%	1.3%
LevelDB - Rand Read (us/Op)	3.663	3.543	3.553
Normalized	96.72%	100%	99.72%
Standard Deviation	0.7%	1.4%	0.8%
LevelDB - Seek Rand (us/Op)	4.599	5.756	4.459
Normalized	96.96%	77.47%	100%
Standard Deviation	0.9%	9.6%	0.4%
LevelDB - Seq Fill (MB/s)	44.2	38.0	36.5
Normalized	100%	85.97%	82.58%
Standard Deviation	0.7%	5.4%	0.4%
LevelDB - Seq Fill (us/Op)	19.989	23.317	24.251
Normalized	100%	85.73%	82.43%
Standard Deviation	0.7%	5%	0.3%

RealSR-NCNN - 4x - No (sec)	65.038	68.813	66.033
Normalized	100%	94.51%	98.49%
Standard Deviation	0.3%	1%	0.1%
RealSR-NCNN - 4x - Yes (sec)	520.294	541.255	508.597
Normalized	97.75%	93.97%	100%
Standard Deviation	1.5%	0.2%	0.1%
Waifu2x-NCNN Vulkan - 2x - 3 - No (sec)	4.099	4.220	4.198
Normalized	100%	97.13%	97.64%
Standard Deviation	2.2%	1.4%	1.7%
Waifu2x-NCNN Vulkan - 2x - 3 - Yes (sec)	26.923	27.325	27.353
Normalized	100%	98.53%	98.43%
Standard Deviation	0.1%	0.2%	0.3%
ET: Legacy - Renderer2 - 1920 x 1200 (FPS)	133.4	126.7	151.8
Normalized	87.88%	83.47%	100%
Standard Deviation	18.2%	0.8%	1.2%
Tesseract - 1920 x 1200 (FPS)	156.5044	140.4887	165.3627
Normalized	94.64%	84.96%	100%
Standard Deviation	1.5%	0.8%	2.4%
Xonotic - 1920 x 1200 - Low (FPS)	354.7893429	272.5520359	372.8174763
Normalized	95.16%	73.11%	100%
Standard Deviation	17%	2.2%	0.7%
Xonotic - 1920 x 1200 - High (FPS)	180.2490147	171.4443729	241.8373006
Normalized	74.53%	70.89%	100%
Standard Deviation	13.3%	0.8%	0.2%
Xonotic - 1920 x 1200 - Ultra (FPS)	146.2895877	146.2127324	198.3841854
Normalized	73.74%	73.7%	100%
Standard Deviation	6.9%	0.5%	7%
Xonotic - 1920 x 1200 - Ultimate (FPS)	109.0371800	114.6085590	144.9669775
Normalized	75.22%	79.06%	100%
Standard Deviation	1.8%	0.3%	6.7%
WireGuard + Linux Networking Stack Stress	210.676	321.262	215.535
Test (sec)			
Normalized	100%	65.58%	97.75%
Standard Deviation	7%	0.7%	2.4%
CLOMP - Static OMP Speedup (Speedup)	6.2	4.9	6.1
Normalized	100%	79.03%	98.39%
Standard Deviation	11.1%	0%	0%
NAMD - ATPase Simulation - 327,506 Atoms	6.72795	5.50073	4.62934
(days/ns)			
Normalized	68.81%	84.16%	100%
Standard Deviation	9.4%	0.1%	19.4%
Dolfyn - C.F.D (sec)	16.409	16.133	16.153
Normalized	98.32%	100%	99.88%
Standard Deviation	2.1%	0.5%	1.7%
Timed MrBayes Analysis - P.P.A (sec)	102.931	102.904	83.715
Normalized	81.33%	81.35%	100%
Standard Deviation	6.7%	0.8%	4%
WebP Image Encode - Q.1.L.H.C (Encode	31.805	37.562	33.493
Time - sec)			
Normalized	100%	84.67%	94.96%
Standard Deviation	0.9%	2.2%	2%
LZ4 Compression - 1 - Compression Speed	8839	9147	8686
(MB/s)			
Normalized	96.63%	100%	94.96%
Standard Deviation	0.1%	0%	0.5%

LZ4 Compression - 1 - D.S (MB/s)	9655	9928	9483
Normalized	97.25%	100%	95.51%
Standard Deviation	0.1%	0.6%	0.3%
LZ4 Compression - 3 - Compression Speed (MB/s)	61.15	63.05	64.85
Normalized	94.29%	97.22%	100%
Standard Deviation	0.9%	1.6%	0.5%
LZ4 Compression - 3 - D.S (MB/s)	9342	9565	9295
Normalized	97.67%	100%	97.17%
Standard Deviation	0%	0.2%	1.5%
LZ4 Compression - 9 - Compression Speed (MB/s)	59.99	59.22	63.58
Normalized	94.35%	93.14%	100%
Standard Deviation	2.1%	6.1%	0.5%
LZ4 Compression - 9 - D.S (MB/s)	9352	9528	9330
Normalized	98.15%	100%	97.93%
Standard Deviation	0.1%	0.2%	1.2%
Zstd Compression - 3 (MB/s)	3728	4075	4080
Normalized	91.38%	99.87%	100%
Standard Deviation	15.4%	2.4%	0.8%
Zstd Compression - 19 (MB/s)	20.2	22.9	23.1
Normalized	87.45%	99.13%	100%
Standard Deviation	2.3%	0.5%	0%
LibRaw - P.P.B (Mpix/sec)	44.85	27.97	33.64
Normalized	100%	62.36%	75.01%
Standard Deviation	21.1%	2.1%	6%
SVT-AV1 - Enc Mode 0 - 1080p (FPS)	0.083	0.078	0.096
Normalized	86.46%	81.25%	100%
Standard Deviation	3.8%	0%	1%
SVT-AV1 - Enc Mode 4 - 1080p (FPS)	1.462	1.345	1.648
Normalized	88.71%	81.61%	100%
Standard Deviation	21.1%	1.5%	11.4%
SVT-VP9 - P.S.O - Bosphorus 1080p (FPS)	122.80	79.94	107.87
Normalized	100%	65.1%	87.84%
Standard Deviation	1.3%	7.1%	9%
SVT-VP9 - V.Q.O - Bosphorus 1080p (FPS)	90.13	58.51	84.66
Normalized	100%	64.92%	93.93%
Standard Deviation	1.9%	5.5%	1.5%
VP9 libvpx Encoding - Speed 5 (FPS)	23.01	19.48	24.30
Normalized	94.69%	80.16%	100%
Standard Deviation	22.8%	2.1%	0.9%
x264 - H.2.V.E (FPS)	40.13	34.41	45.64
Normalized	87.93%	75.39%	100%
Standard Deviation	25%	2.5%	4.7%
x265 - Bosphorus 4K (FPS)	5.68	5.48	6.31
Normalized	90.02%	86.85%	100%
Standard Deviation	4.8%	1.3%	4%
x265 - Bosphorus 1080p (FPS)	29.03	25.56	34.92
Normalized	83.13%	73.2%	100%
Standard Deviation	26.1%	2.5%	2.5%
Stockfish - Total Time (Nodes/s)	5705100	5764570	7097119
Normalized	80.39%	81.22%	100%
Standard Deviation	6.8%	1.8%	2%
asmFish - 1.H.M.2.D (Nodes/s)	8385784	8569639	9718130
Normalized	86.29%	88.18%	100%

	Standard Deviation	3%	1.6%	1.5%
libavif avifenc - 10 (sec)	4.679	6.411	6.512	
Normalized	100%	72.98%	71.85%	
Standard Deviation	0.3%	3.8%	0.6%	
Timed FFmpeg Compilation - Time To Compile (sec)	150.579	157.077	122.702	
Normalized	81.49%	78.12%	100%	
Standard Deviation	4.8%	0.6%	4.7%	
Timed Linux Kernel Compilation - Time To Compile (sec)	227.623	267.410	199.404	
Normalized	87.6%	74.57%	100%	
Standard Deviation	1.9%	0.3%	2.2%	
Numpy Benchmark (Score)	510.34	416.37	425.94	
Normalized	100%	81.59%	83.46%	
Standard Deviation	1.8%	1.2%	0.5%	
Timed Eigen Compilation - Time To Compile (sec)	60.434	66.728	61.024	
Normalized	100%	90.57%	99.03%	
Standard Deviation	0.6%	0.6%	0.1%	
XZ Compression - C.u.1.0.3.s.i.i.C.L.9 (sec)	58.968	60.304	51.378	
Normalized	87.13%	85.2%	100%	
Standard Deviation	16.3%	0.6%	1.1%	
DeepSpeech - CPU (sec)	66.88168	61.61175	63.87221	
Normalized	92.12%	100%	96.46%	
Standard Deviation	6.8%	1.1%	0.7%	
Perl Benchmarks - Pod2html (sec)	0.07835017	0.09129946	0.08869303	
Normalized	100%	85.82%	88.34%	
Standard Deviation	1.3%	0.2%	0.5%	
Perl Benchmarks - Interpreter (sec)	0.00083850	0.00093976	0.00088536	
Normalized	100%	89.22%	94.71%	
Standard Deviation	1%	0.3%	1.5%	
libjpeg-turbo tbench - D.T (Megapixels/sec)	216.640954	214.396587	217.594501	
Normalized	99.56%	98.53%	100%	
Standard Deviation	0.7%	0.7%	0.2%	
GROMACS - Water Benchmark (Ns/Day)	0.424	0.421	0.512	
Normalized	82.81%	82.23%	100%	
Standard Deviation	5.3%	1.4%	1.2%	
TensorFlow Lite - SqueezeNet (us)	527761	559790	430928	
Normalized	81.65%	76.98%	100%	
Standard Deviation	9.1%	0.8%	1.1%	
TensorFlow Lite - Inception V4 (us)	7525253	8120123	6547940	
Normalized	87.01%	80.64%	100%	
Standard Deviation	4.6%	0.1%	0.4%	
TensorFlow Lite - NASNet Mobile (us)	379325	402074	318435	
Normalized	83.95%	79.2%	100%	
Standard Deviation	8.5%	1.1%	2.1%	
TensorFlow Lite - Mobilenet Float (us)	354479	375484	297656	
Normalized	83.97%	79.27%	100%	
Standard Deviation	10.5%	1.5%	2.2%	
TensorFlow Lite - Mobilenet Quant (us)	349703	368942	299659	
Normalized	85.69%	81.22%	100%	
Standard Deviation	9.8%	1.4%	1.8%	
TensorFlow Lite - I.R.V (us)	6849918	7362320	5986360	
Normalized	87.39%	81.31%	100%	
Standard Deviation	4.3%	0.1%	1.4%	

ASTC Encoder - Thorough (sec)	78.42	85.70	68.05
Normalized	86.78%	79.4%	100%
Standard Deviation	4.5%	1%	5.6%
ASTC Encoder - Exhaustive (sec)	677.65	726.90	606.73
Normalized	89.53%	83.47%	100%
Standard Deviation	0.6%	0.7%	1.1%
Basis Universal - UASTC Level 2 (sec)	85.124	86.361	77.355
Normalized	90.87%	89.57%	100%
Standard Deviation	2.2%	0.9%	4.5%
SQLite Speedtest - Timed Time - Size 1,000 (sec)	49.504	52.294	55.956
Normalized	100%	94.66%	88.47%
Standard Deviation	2.2%	0.2%	2.5%
Darktable - Boat - CPU-only (sec)	10.254	16.116	10.828
Normalized	100%	63.63%	94.7%
Standard Deviation	1.8%	2.5%	1.4%
Darktable - Masskrug - CPU-only (sec)	7.882	8.990	7.143
Normalized	90.62%	79.45%	100%
Standard Deviation	34.4%	5.3%	1%
Darktable - Server Room - CPU-only (sec)	4.586	6.996	5.561
Normalized	100%	65.55%	82.47%
Standard Deviation	0.4%	8.6%	0.3%
GIMP - resize (sec)	6.660	9.024	7.784
Normalized	100%	73.8%	85.56%
Standard Deviation	0.8%	3.4%	1.1%
GIMP - rotate (sec)	8.628	9.915	9.855
Normalized	100%	87.02%	87.55%
Standard Deviation	0.7%	0.4%	0.4%
GIMP - auto-levels (sec)	9.327	11.180	10.641
Normalized	100%	83.43%	87.65%
Standard Deviation	1.2%	2.4%	0.4%
GIMP - unsharp-mask (sec)	10.819	13.317	12.233
Normalized	100%	81.24%	88.44%
Standard Deviation	0.6%	2.4%	0.8%
RawTherapee - T.B.T (sec)	88.746	99.518	81.974
Normalized	92.37%	82.37%	100%
Standard Deviation	6.2%	1.3%	3.7%
librsvg - SVG Files To PNG (sec)	24.304	20.385	17.231
Normalized	70.9%	84.53%	100%
Standard Deviation	0.1%	0.9%	0.6%
NCNN - CPU - mobilenet (ms)	24.87	30.25	23.74
Normalized	95.46%	78.48%	100%
Standard Deviation	36.8%	0.9%	16%
NCNN - CPU-v2-v2 - mobilenet-v2 (ms)	5.50	6.78	5.71
Normalized	100%	81.12%	96.32%
Standard Deviation	14%	16.6%	9%
NCNN - CPU-v3-v3 - mobilenet-v3 (ms)	4.62	6.35	4.78
Normalized	100%	72.76%	96.65%
Standard Deviation	13.3%	23.9%	9.4%
NCNN - CPU - shufflenet-v2 (ms)	7.10	9.93	6.91
Normalized	97.32%	69.59%	100%
Standard Deviation	11.8%	0.8%	8.5%
NCNN - CPU - mnasnet (ms)	5.32	7.80	5.45
Normalized	100%	68.21%	97.61%
Standard Deviation	14.1%	1.2%	7.5%

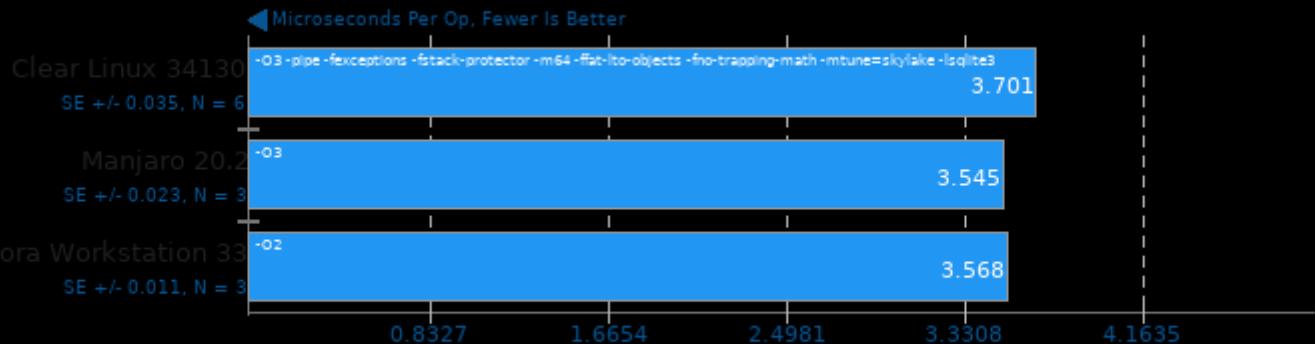
NCNN - CPU - efficientnet-b0 (ms)	8.23	11.46	8.16
Normalized	99.15%	71.2%	100%
Standard Deviation	14%	1.4%	13.6%
NCNN - CPU - blazeface (ms)	2.27	2.60	1.99
Normalized	87.67%	76.54%	100%
Standard Deviation	40.3%	1.2%	1.8%
NCNN - CPU - googlenet (ms)	18.18	23.78	16.04
Normalized	88.23%	67.45%	100%
Standard Deviation	43.2%	1.4%	1.6%
NCNN - CPU - vgg16 (ms)	84.71	69.06	52.71
Normalized	62.22%	76.32%	100%
Standard Deviation	45.2%	0.6%	3.8%
NCNN - CPU - resnet50 (ms)	68.00	49.65	42.97
Normalized	63.19%	86.55%	100%
Standard Deviation	39.6%	0.1%	8.1%
NCNN - CPU - squeezenet_ssd (ms)	47.06	32.88	30.50
Normalized	64.81%	92.76%	100%
Standard Deviation	38.2%	0.7%	5%
NCNN - Vulkan GPU - shufflenet-v2 (ms)	8.58	9.03	6.80
Normalized	79.25%	75.3%	100%
Standard Deviation	39.7%	19.7%	2.2%
NCNN - Vulkan GPU - mnasnet (ms)	6.41	7.10	5.36
Normalized	83.62%	75.49%	100%
Standard Deviation	41.2%	18.5%	1.8%
NCNN - Vulkan GPU - efficientnet-b0 (ms)	10.56	10.49	7.88
Normalized	74.62%	75.12%	100%
Standard Deviation	46.5%	18.9%	1.6%
NCNN - Vulkan GPU - blazeface (ms)	2.72	2.44	1.99
Normalized	73.16%	81.56%	100%
Standard Deviation	51.5%	16.6%	2.6%
NCNN - Vulkan GPU - googlenet (ms)	21.56	23.18	16.09
Normalized	74.63%	69.41%	100%
Standard Deviation	54.5%	4.8%	2.6%
NCNN - Vulkan GPU - vgg16 (ms)	88.23	69.20	52.99
Normalized	60.06%	76.58%	100%
Standard Deviation	47%	0.2%	3.5%
NCNN - Vulkan GPU - resnet18 (ms)	22.15	21.16	14.87
Normalized	67.13%	70.27%	100%
Standard Deviation	60.3%	1%	2.2%
NCNN - Vulkan GPU - alexnet (ms)	18.82	18.30	13.50
Normalized	71.73%	73.77%	100%
Standard Deviation	50.8%	0.7%	1.5%
NCNN - Vulkan GPU - resnet50 (ms)	63.10	49.73	43.21
Normalized	68.48%	86.89%	100%
Standard Deviation	43.7%	0.4%	7.2%
NCNN - Vulkan GPU - yolov4-tiny (ms)	29.26	39.14	28.31
Normalized	96.75%	72.33%	100%
Standard Deviation	32.3%	1.4%	2.6%
NCNN - Vulkan GPU - squeezenet_ssd (ms)	44.27	32.99	33.23
Normalized	74.52%	100%	99.28%
Standard Deviation	42.6%	0.9%	16.4%
NCNN - Vulkan GPU - regnety_400m (ms)	19.57	16.88	14.01
Normalized	71.59%	83%	100%
Standard Deviation	49.8%	11.8%	0.4%
TNN - CPU - MobileNet v2 (ms)	276.594	284.107	287.673

	Normalized	100%	97.36%	96.15%
	Standard Deviation	2.4%	0.2%	0.8%
TNN - CPU - SqueezeNet v1.1 (ms)	267.361	266.285		266.931
	Normalized	99.6%	100%	99.76%
	Standard Deviation	0.6%	0.1%	0.1%
Basemark GPU - OpenGL - 1920 x 1200 - High (FPS)	28.84	30.81		34.25
	Normalized	84.2%	89.96%	100%
	Standard Deviation	5.2%	0.8%	0.2%
Basemark GPU - Vulkan - 1920 x 1200 - High (FPS)	26.38	28.51		30.00
	Normalized	87.93%	95.03%	100%
	Standard Deviation	1%	0%	0.2%
Chaos Group V-RAY - CPU (Ksamples)	5117	4634		5666
	Normalized	90.31%	81.79%	100%
	Standard Deviation	9.4%	2.4%	6.1%
IndigoBench - CPU - Bedroom (M samples/s)	0.681	0.510		0.531
	Normalized	100%	74.89%	77.97%
	Standard Deviation	28.3%	0.3%	13.5%
IndigoBench - CPU - Supercar (M samples/s)	1.404	1.200		1.698
	Normalized	82.69%	70.67%	100%
	Standard Deviation	32.9%	0.4%	5.9%
PyBench - T.F.A.T.T (Milliseconds)	769	786		967
	Normalized	100%	97.84%	79.52%
	Standard Deviation	0.5%	0.8%	19%
PyPerformance - pathlib (Milliseconds)	12.4	13.5		13.7
	Normalized	100%	91.85%	90.51%
	Standard Deviation	0.5%	1.5%	0.8%
PyPerformance - json.loads (Milliseconds)	17.8	19.7		19.0
	Normalized	100%	90.36%	93.68%
	Standard Deviation	0.3%	0.9%	0.6%
PyPerformance - regex_compile	132	134		147
	Normalized	100%	98.51%	89.8%
	Standard Deviation	0.4%	1.3%	0.4%
PyPerformance - python_startup	6.31	7.65		6.73
	Normalized	100%	82.48%	93.76%
	Standard Deviation	0.3%	0.7%	0.2%
Appleseed - Emily (sec)	1223	1230		1079
	Normalized	88.21%	87.66%	100%
AI Benchmark Alpha - D.I.S (Score)	532	540		
	Normalized	98.52%	100%	
AI Benchmark Alpha - D.T.S (Score)	620	630		
	Normalized	98.41%	100%	
AI Benchmark Alpha - Device AI Score	1152	1170		
	Normalized	98.46%	100%	
Selenium - ARES-6 - Firefox (ms)	41.14	41.71		43.01
	Normalized	100%	98.63%	95.65%
	Standard Deviation	0.8%	0.7%	0.4%
Selenium - Kraken - Firefox (ms)	977.4	992.4		1018
	Normalized	100%	98.49%	96%
	Standard Deviation	0.2%	0.1%	0.3%
Selenium - Octane - Firefox (Geometric)	23091	23109		22964
	Normalized	99.92%	100%	99.37%
	Standard Deviation	0.3%	1.4%	0.5%

Selenium - Jetstream - Firefox (Score)	187.33	185.99	187.26
Normalized	100%	99.28%	99.96%
Standard Deviation	0.5%	0.3%	0.5%
Selenium - CanvasMark - Firefox (Score)	15348	15578	14028
Normalized	98.52%	100%	90.05%
Standard Deviation	0.9%	1.2%	0.6%
Selenium - StyleBench - Firefox (Runs /	109.9	106	113
Normalized	97.26%	93.81%	100%
Standard Deviation	11.2%		0.9%
Selenium - Jetstream 2 - Firefox (Score)	94.460	89.261	88.606
Normalized	100%	94.5%	93.8%
Standard Deviation	0.6%	0.8%	1.4%
Selenium - Maze Solver - Firefox (sec)	4	5.2	5.1
Normalized	100%	76.92%	78.43%
Standard Deviation		0%	0%
Selenium - Speedometer - Firefox (Runs/min)	143	143	131
Normalized	100%	100%	91.61%
Standard Deviation	0.8%	2.4%	
Selenium - PSPDFKit WASM - Firefox (Score)	2859	2936	3005
Normalized	100%	97.38%	95.14%
Standard Deviation	0.5%	0.2%	0.1%
Selenium - W.i - Firefox (ms)	28.8	28.1	28.0
Normalized	97.22%	99.64%	100%
Standard Deviation	2.3%	0.5%	2.3%
Selenium - W.c - Firefox (ms)	339.8	339.9	332.5
Normalized	97.85%	97.82%	100%
Standard Deviation	0.8%	0.5%	2.2%
Git - T.T.C.C.G.C (sec)	45.918	47.297	45.227
Normalized	98.5%	95.62%	100%
Standard Deviation	1.3%	1.2%	1.1%

LevelDB 1.22

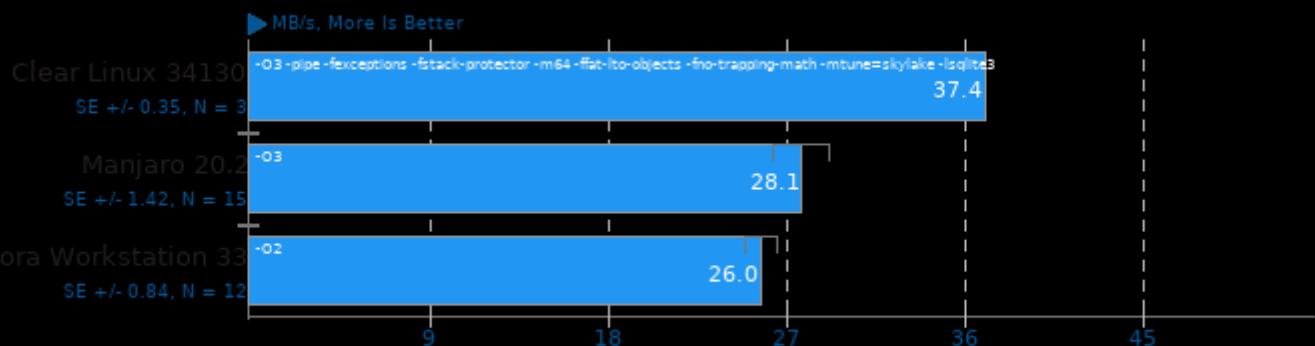
Benchmark: Hot Read



1. (CXX) g++ options: -lsnappy -lpthread

LevelDB 1.22

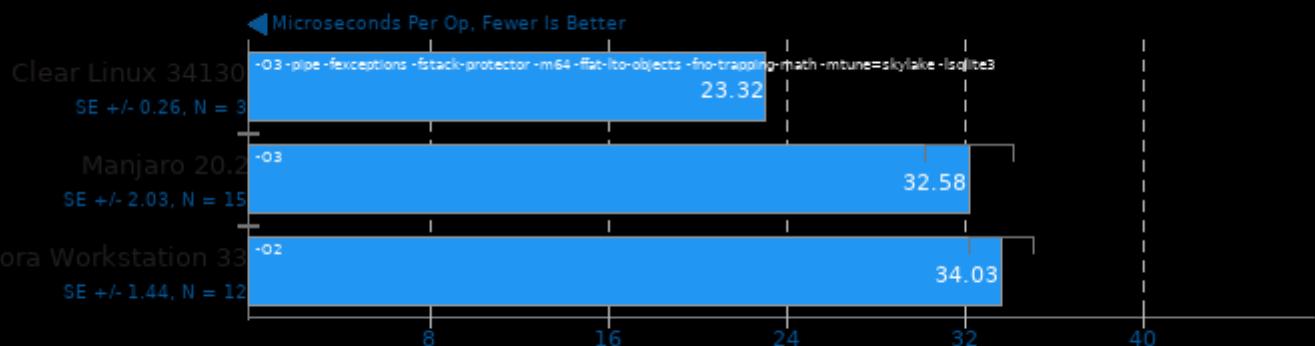
Benchmark: Fill Sync



1. (CXX) g++ options: -lsnappy -lpthread

LevelDB 1.22

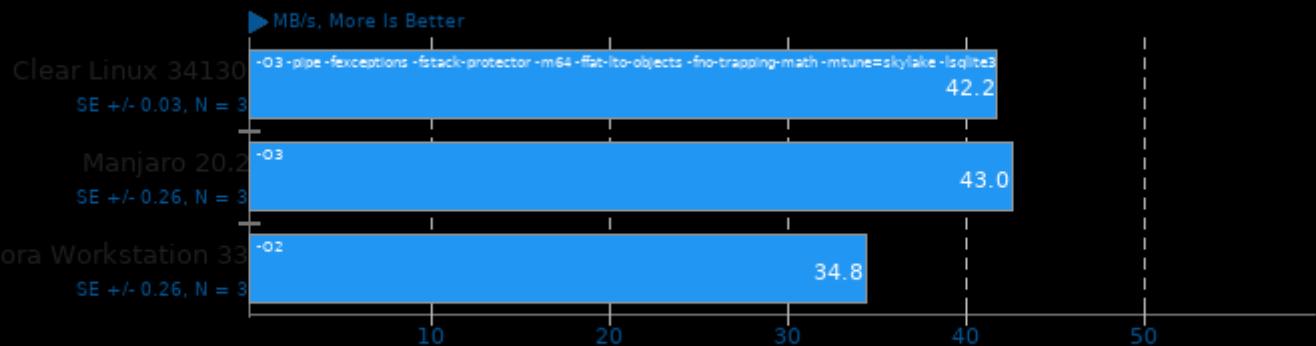
Benchmark: Fill Sync



1. (CXX) g++ options: -lsnappy -lpthread

LevelDB 1.22

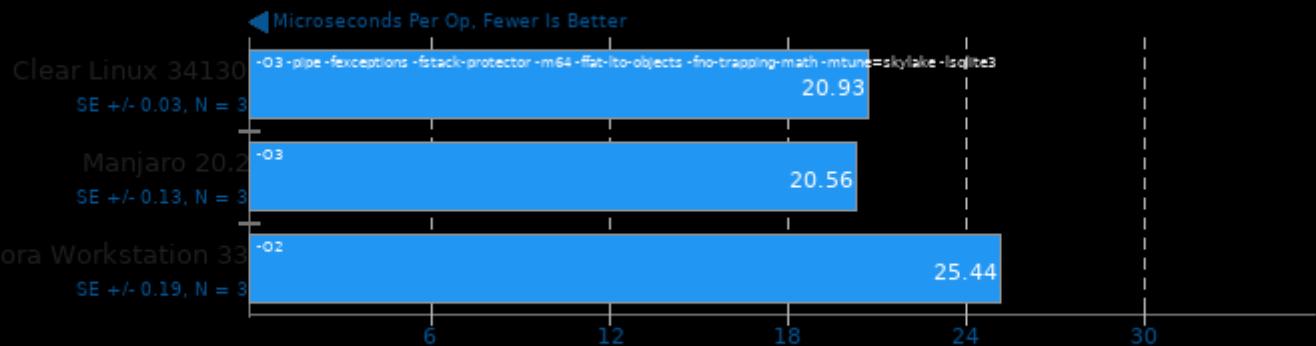
Benchmark: Random Fill



1. (CXX) g++ options: -lsnappy -lpthread

LevelDB 1.22

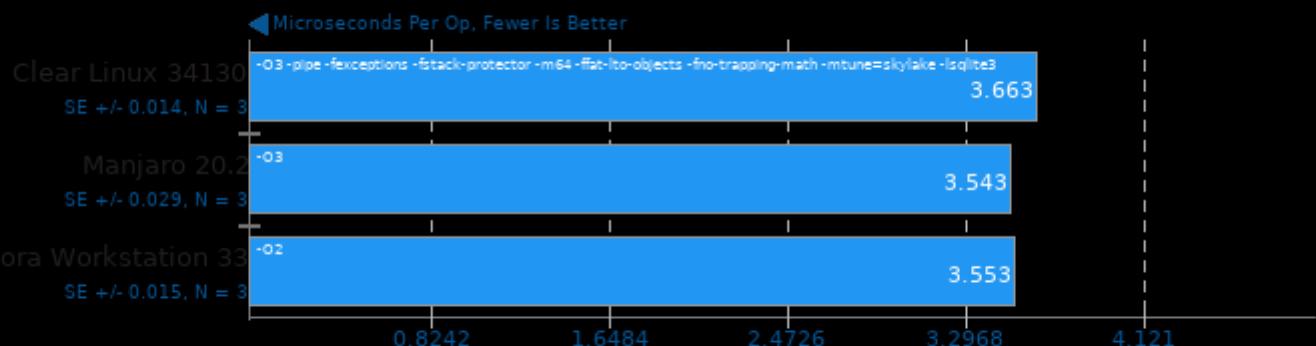
Benchmark: Random Fill



1. (CXX) g++ options: -lsnappy -lpthread

LevelDB 1.22

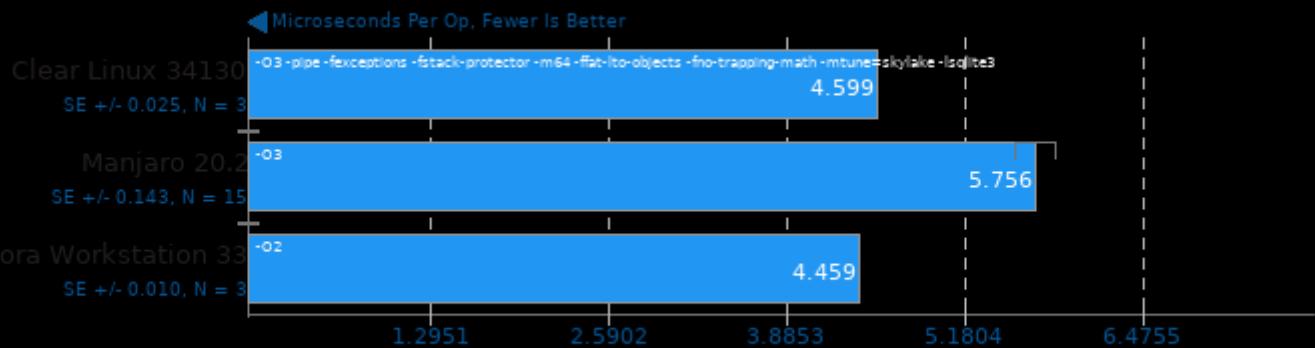
Benchmark: Random Read



1. (CXX) g++ options: -lsnappy -lpthread

LevelDB 1.22

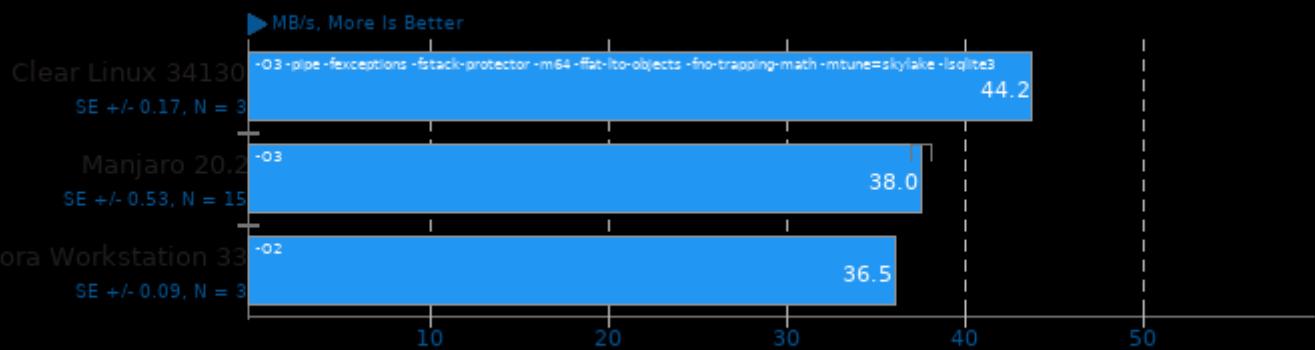
Benchmark: Seek Random



1. (CXX) g++ options: -lsnappy -lpthread

LevelDB 1.22

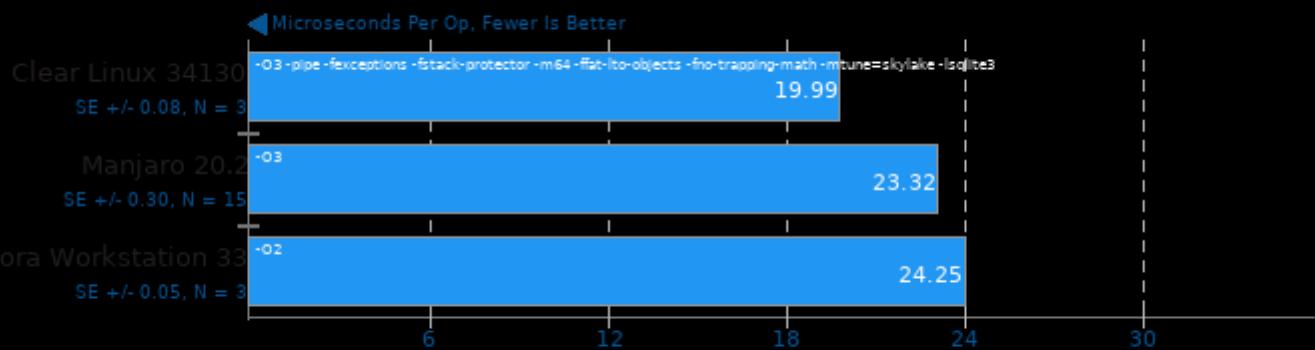
Benchmark: Sequential Fill



1. (CXX) g++ options: -lsnappy -lpthread

LevelDB 1.22

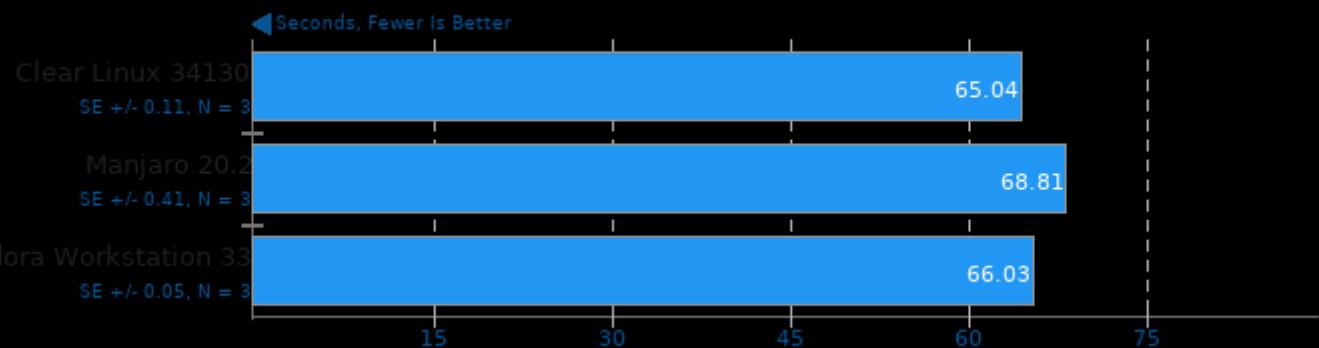
Benchmark: Sequential Fill



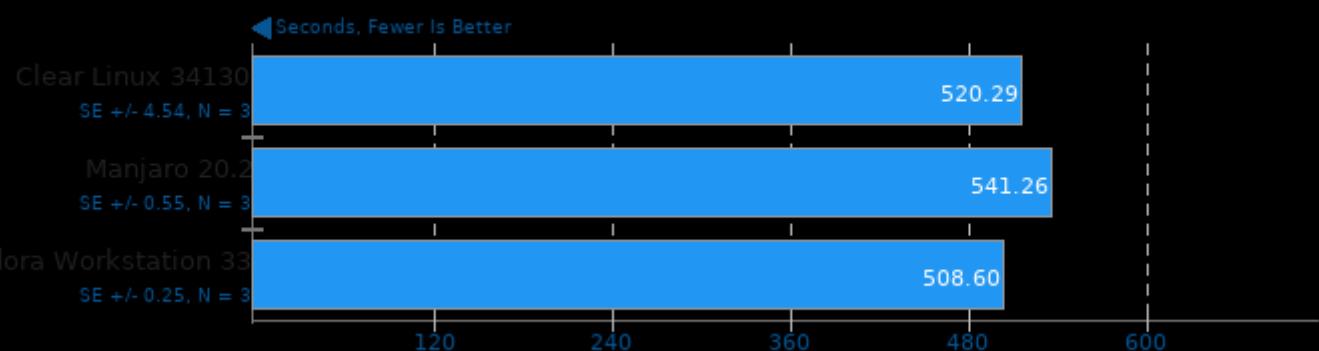
1. (CXX) g++ options: -lsnappy -lpthread

RealSR-NCNN 20200818

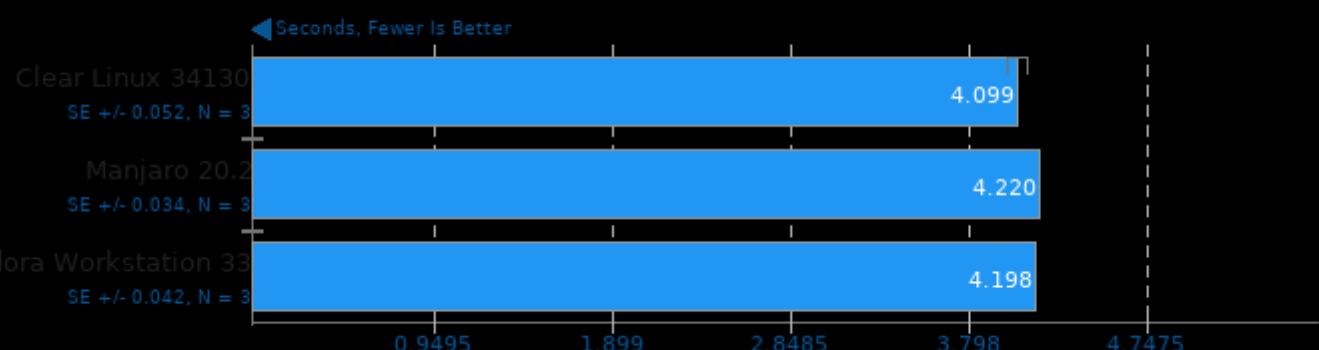
Scale: 4x - TAA: No

**RealSR-NCNN 20200818**

Scale: 4x - TAA: Yes

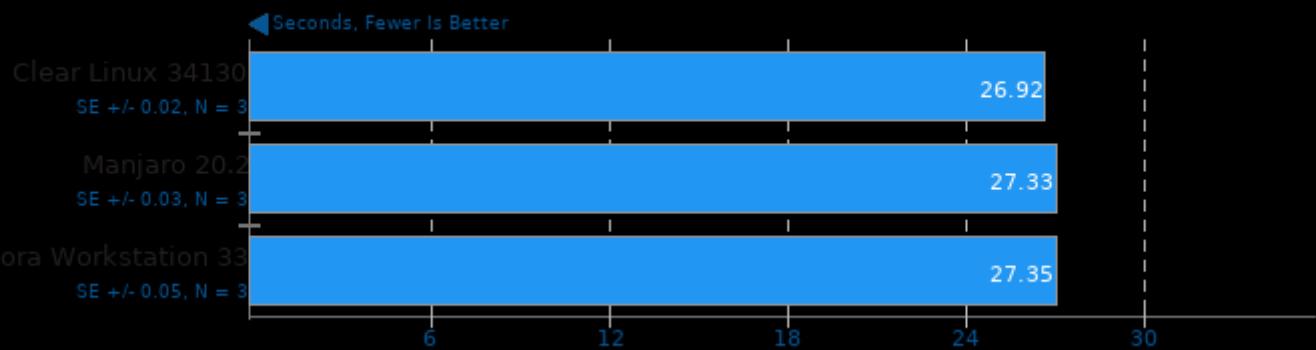
**Waifu2x-NCNN Vulkan 20200818**

Scale: 2x - Denoise: 3 - TAA: No

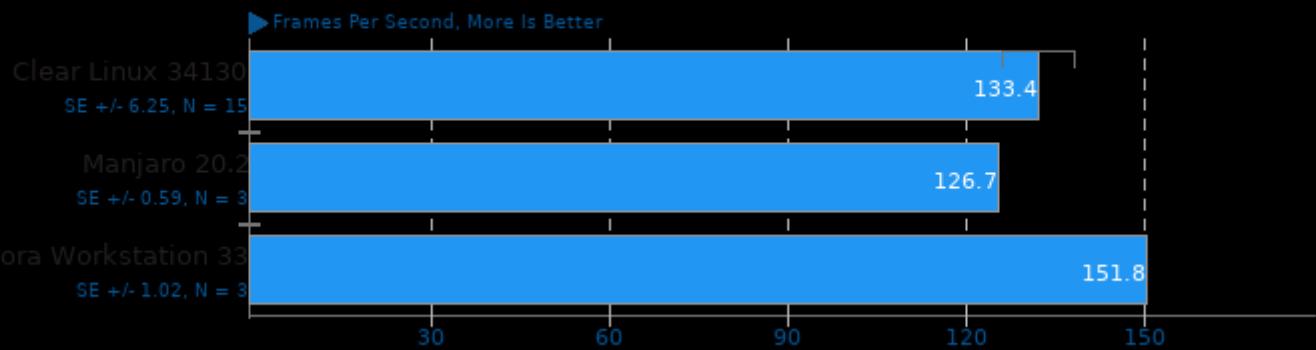


Waifu2x-NCNN Vulkan 20200818

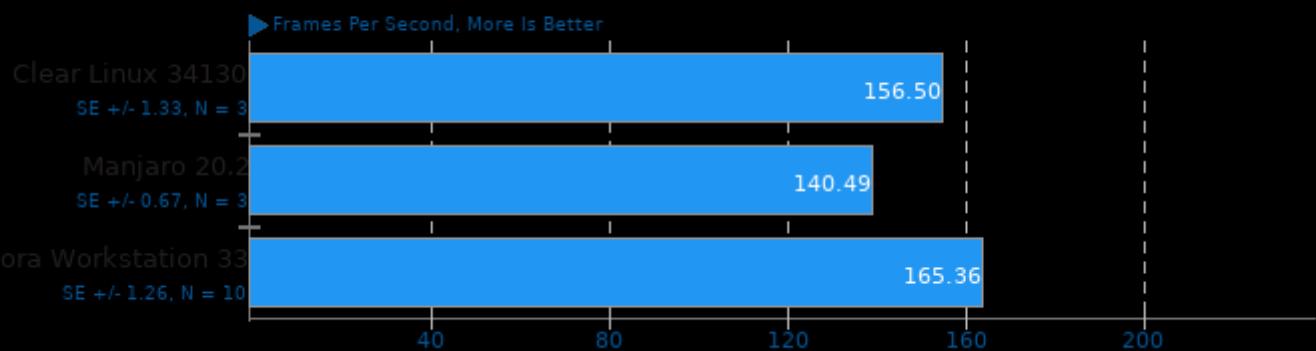
Scale: 2x - Denoise: 3 - TAA: Yes

**ET: Legacy 2.75**

Renderer: Renderer2 - Resolution: 1920 x 1200

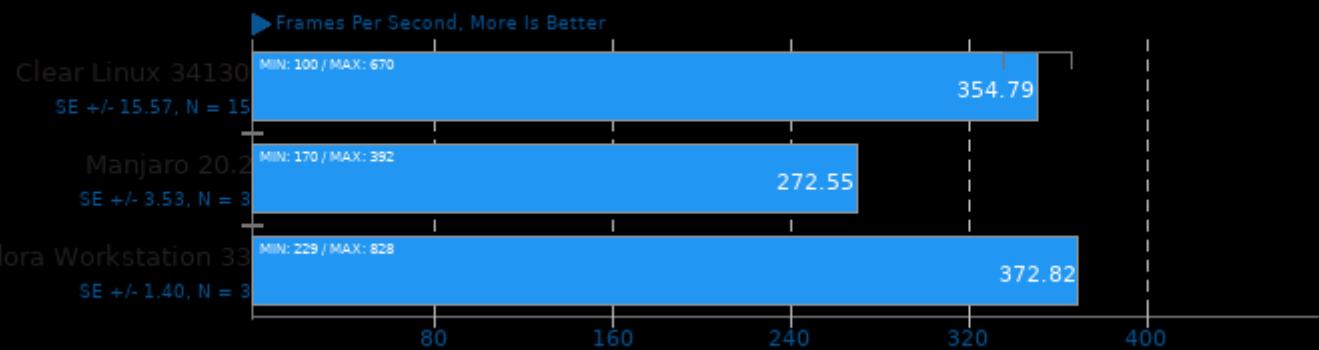
**Tesseract 2014-05-12**

Resolution: 1920 x 1200



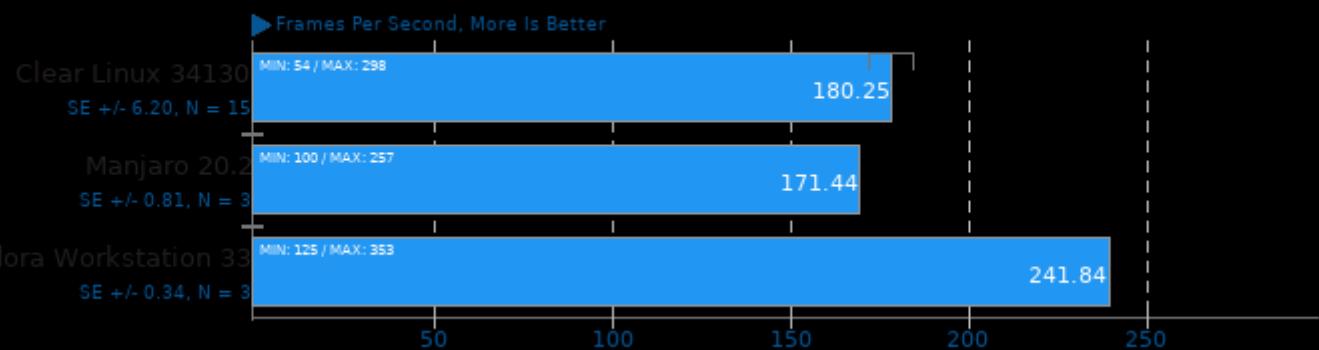
Xonotic 0.8.2

Resolution: 1920 x 1200 - Effects Quality: Low



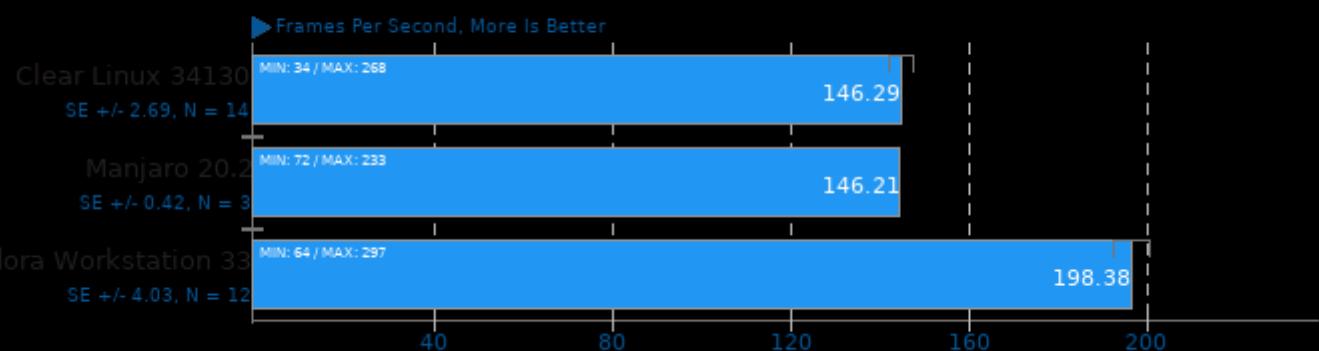
Xonotic 0.8.2

Resolution: 1920 x 1200 - Effects Quality: High



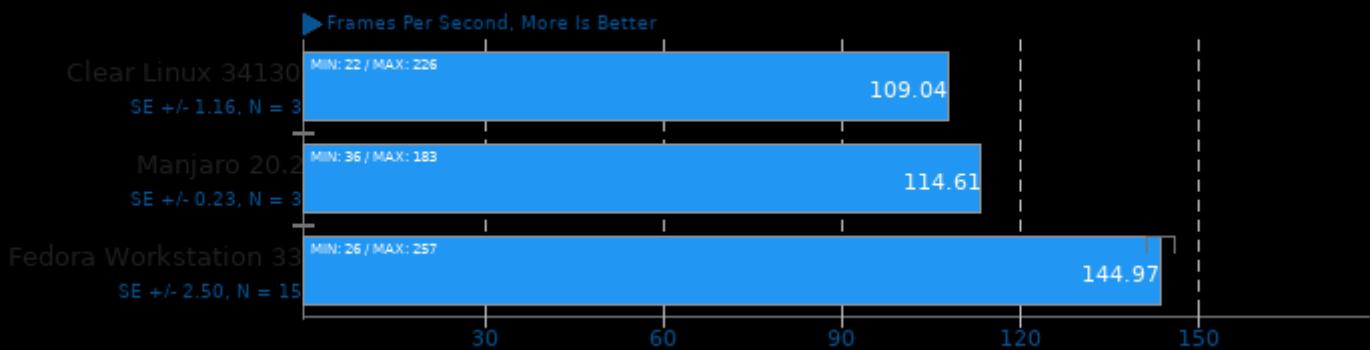
Xonotic 0.8.2

Resolution: 1920 x 1200 - Effects Quality: Ultra

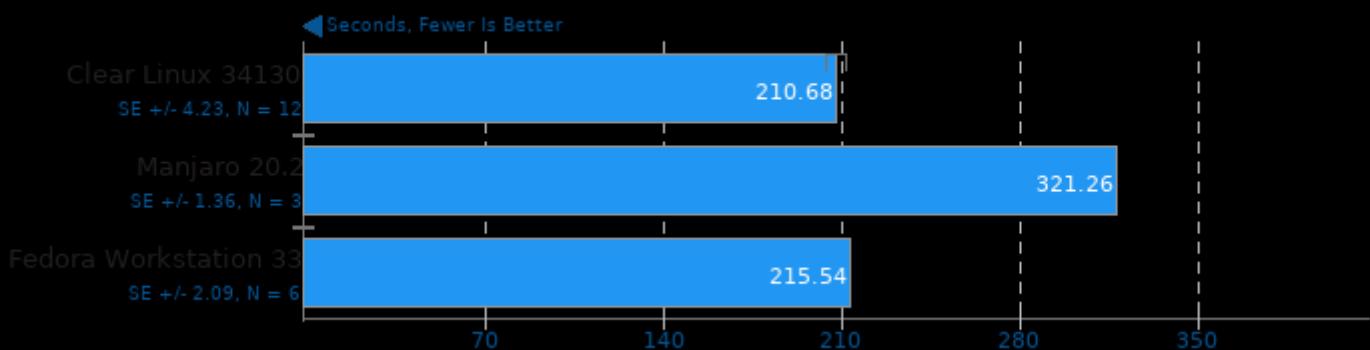


Xonotic 0.8.2

Resolution: 1920 x 1200 - Effects Quality: Ultimate

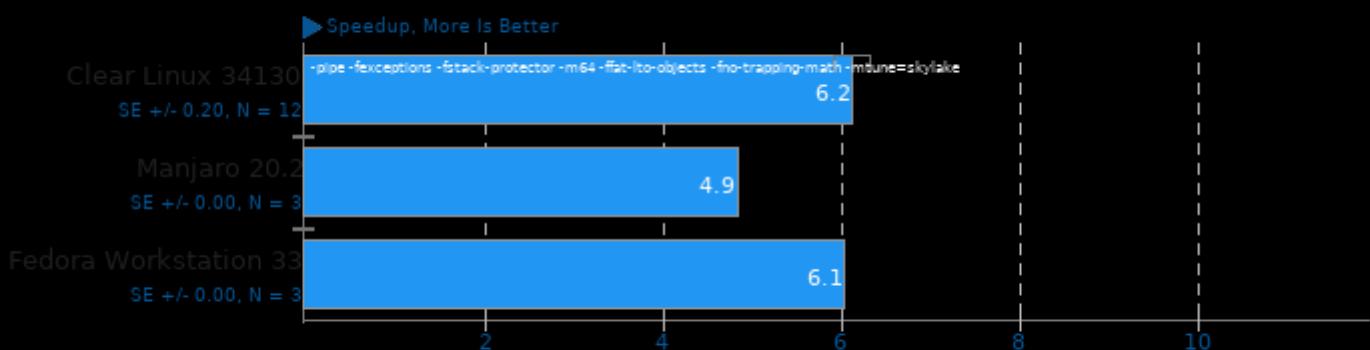


WireGuard + Linux Networking Stack Stress Test



CLOMP 1.2

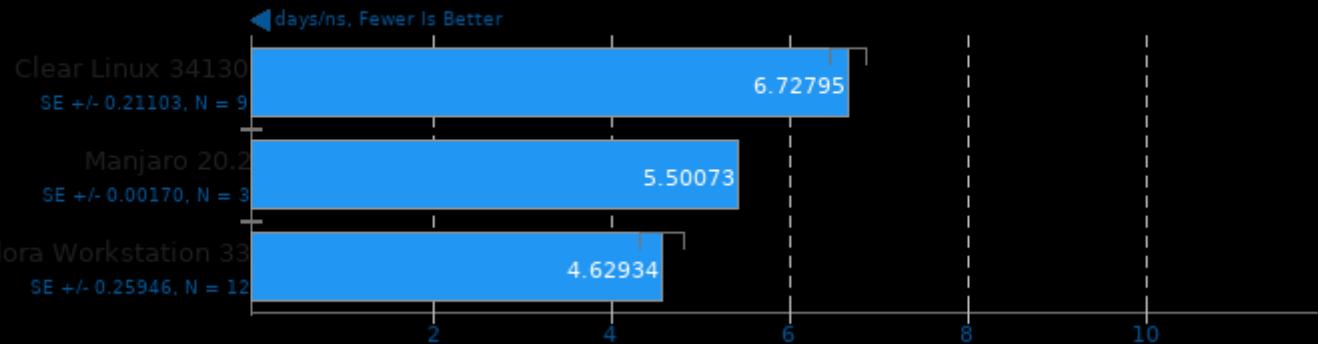
Static OMP Speedup



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

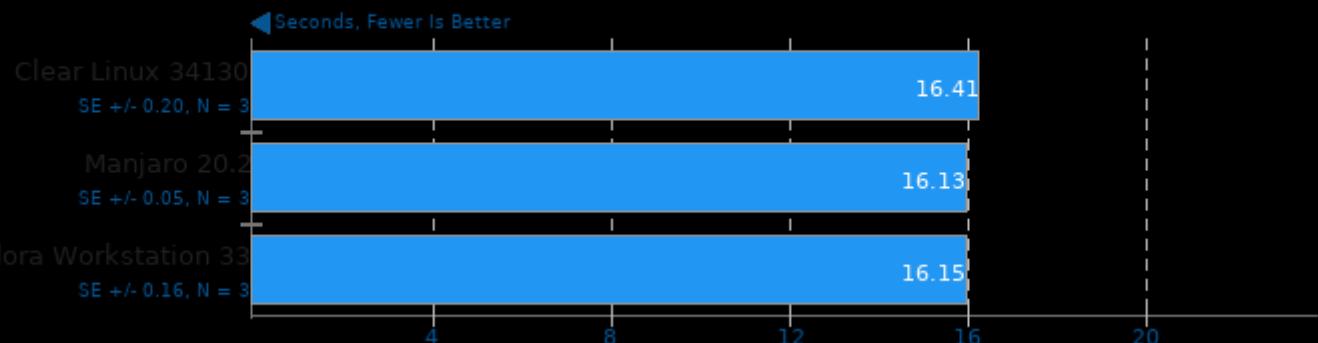
NAMD 2.14

ATPase Simulation - 327,506 Atoms



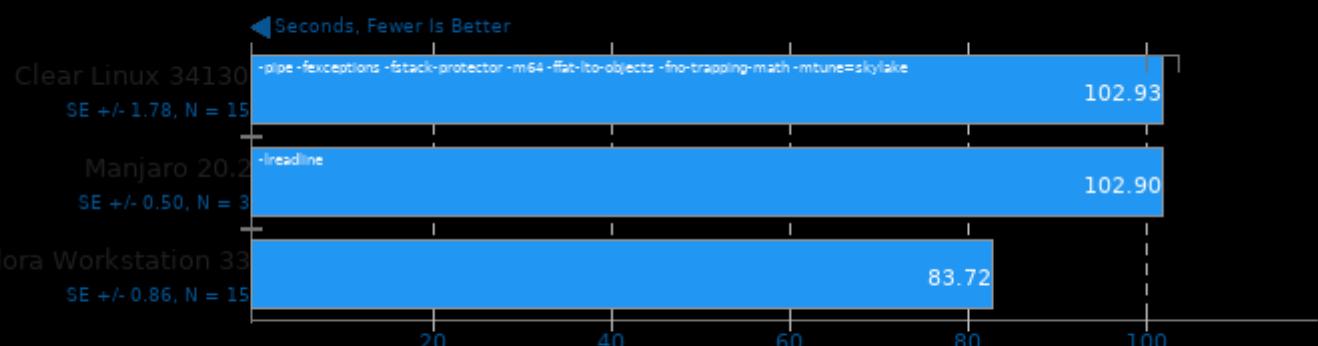
Dolfyn 0.527

Computational Fluid Dynamics



Timed MrBayes Analysis 3.2.7

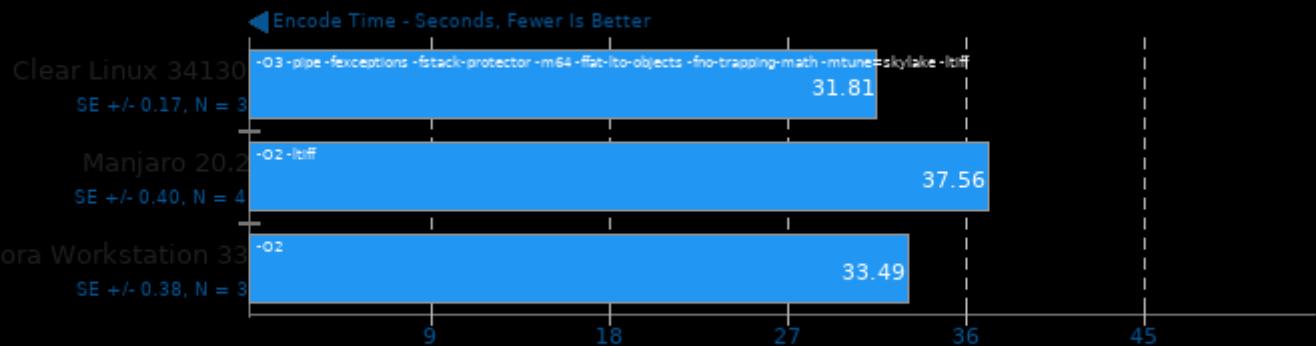
Primate Phylogeny Analysis



1. (CC) gcc options: -mmmx -msse -msse2 -msse3 -msse3 -msse4.1 -msse4.2 -msha -maes -mavx -mfma -mavx2 -mavx512f -mavx512cd -mavx512vl -ma

WebP Image Encode 1.1

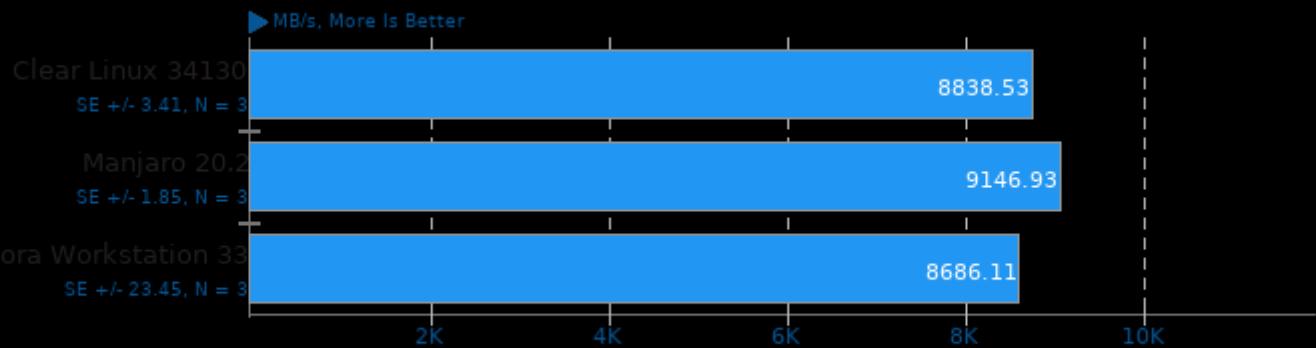
Encode Settings: Quality 100, Lossless, Highest Compression



1. (CC) gcc options: -fvisibility=hidden -pthread -lm -ljpeg -lpng16

LZ4 Compression 1.9.3

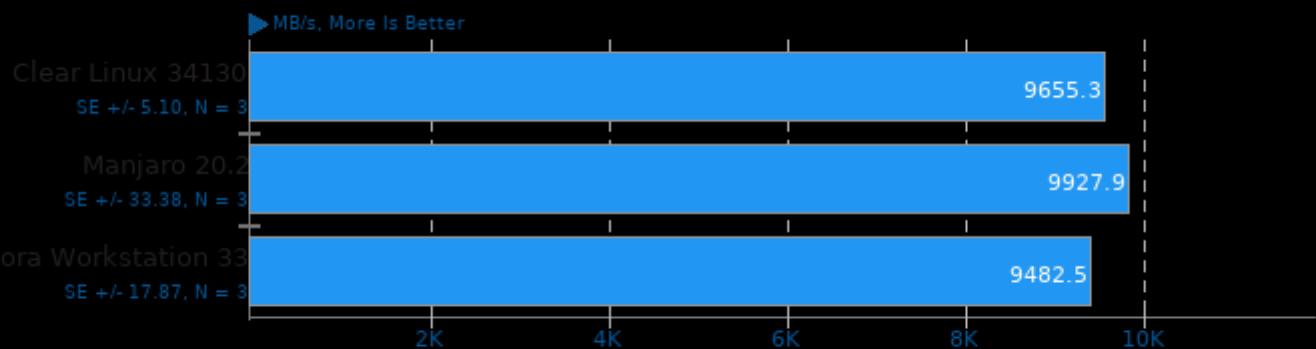
Compression Level: 1 - Compression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

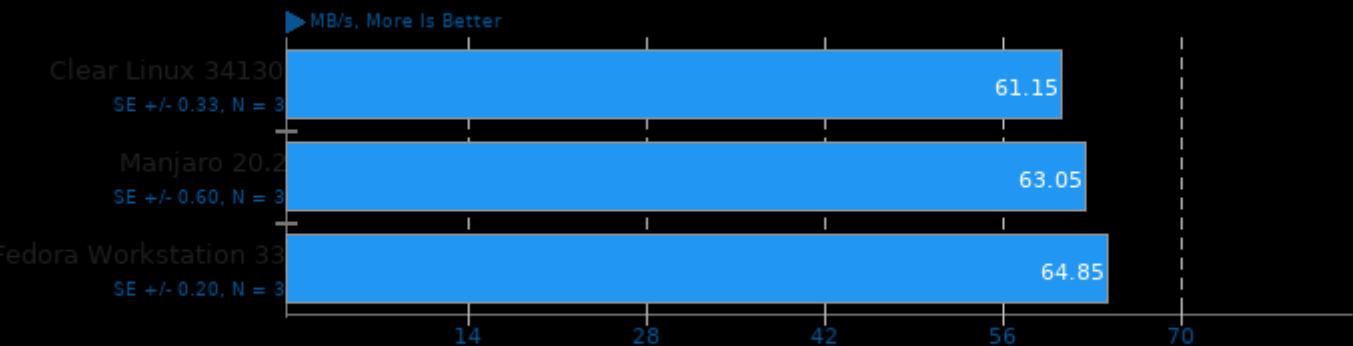
Compression Level: 1 - Decompression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

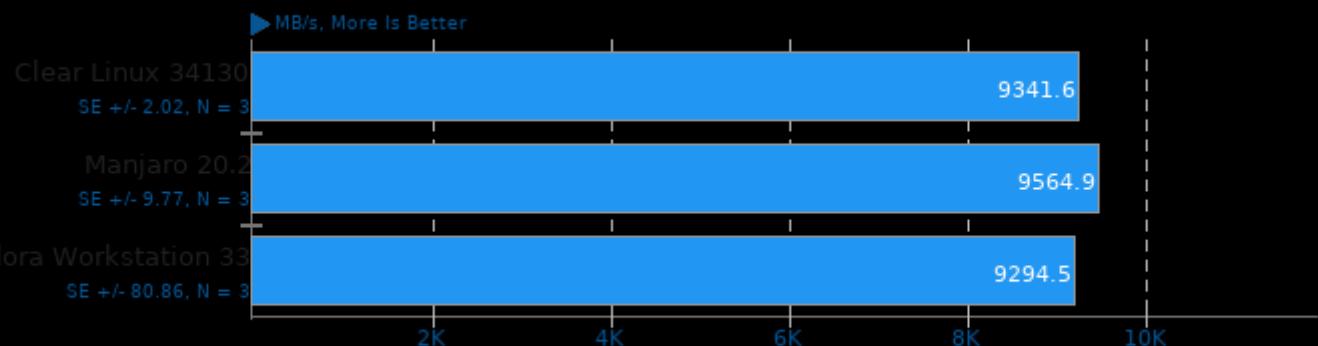
Compression Level: 3 - Compression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

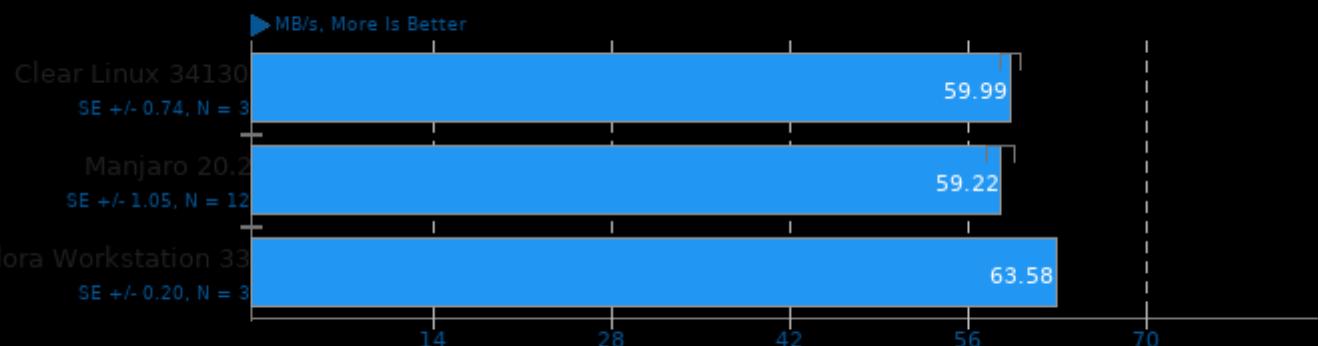
Compression Level: 3 - Decompression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

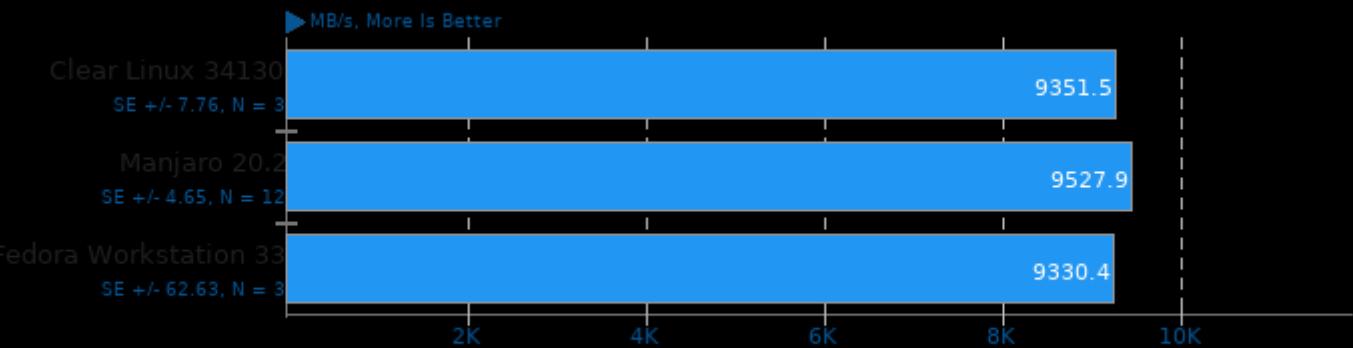
Compression Level: 9 - Compression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

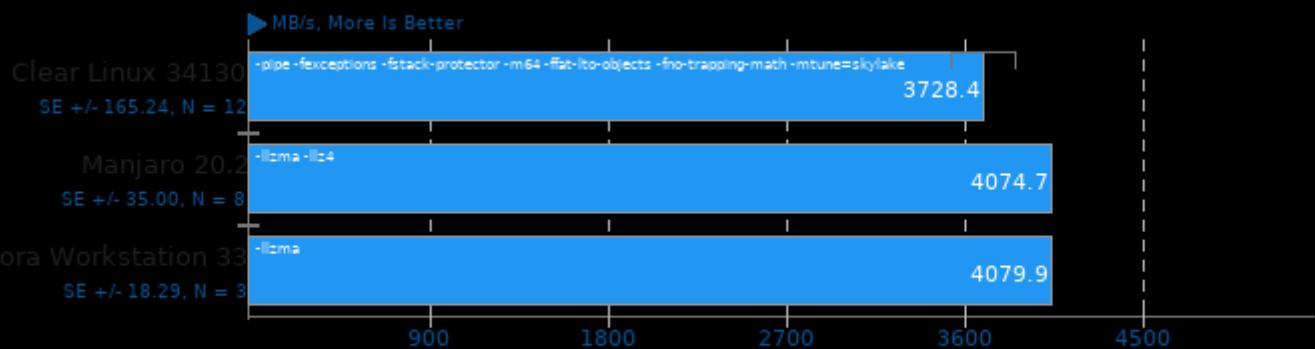
Compression Level: 9 - Decompression Speed



1. (CC) gcc options: -O3

Zstd Compression 1.4.5

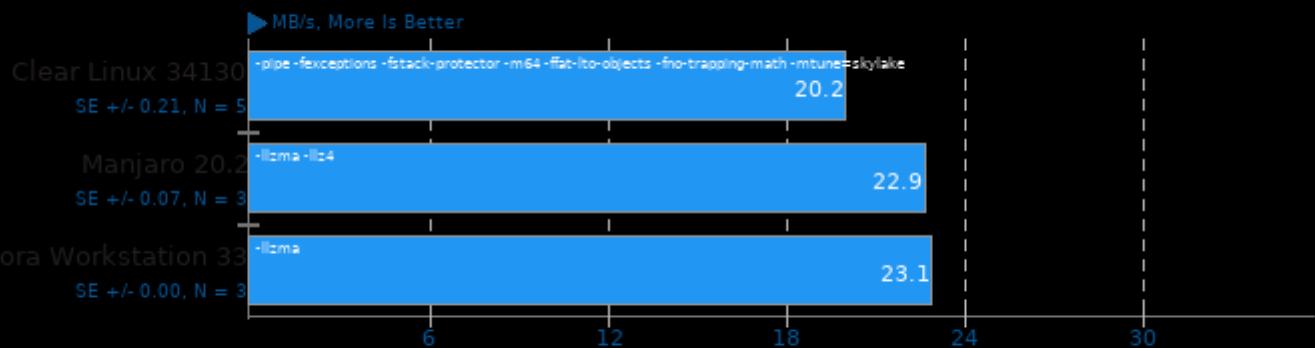
Compression Level: 3



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

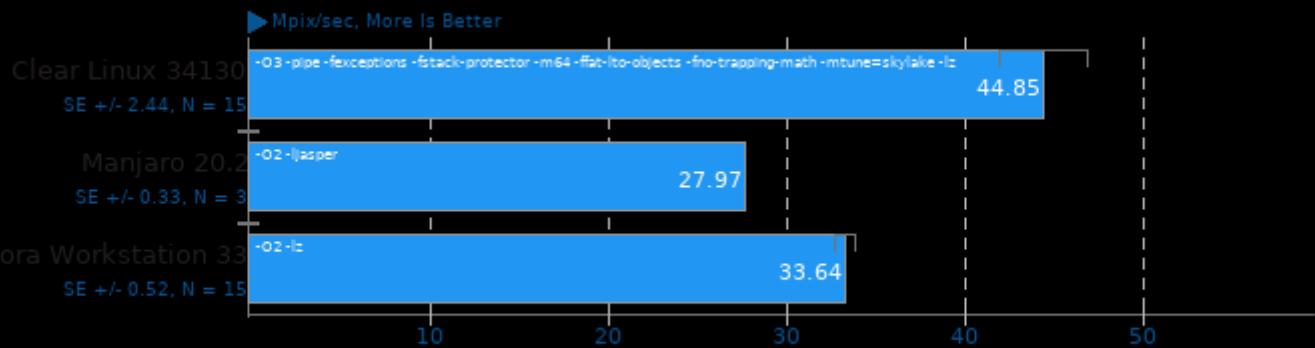
Zstd Compression 1.4.5

Compression Level: 19



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

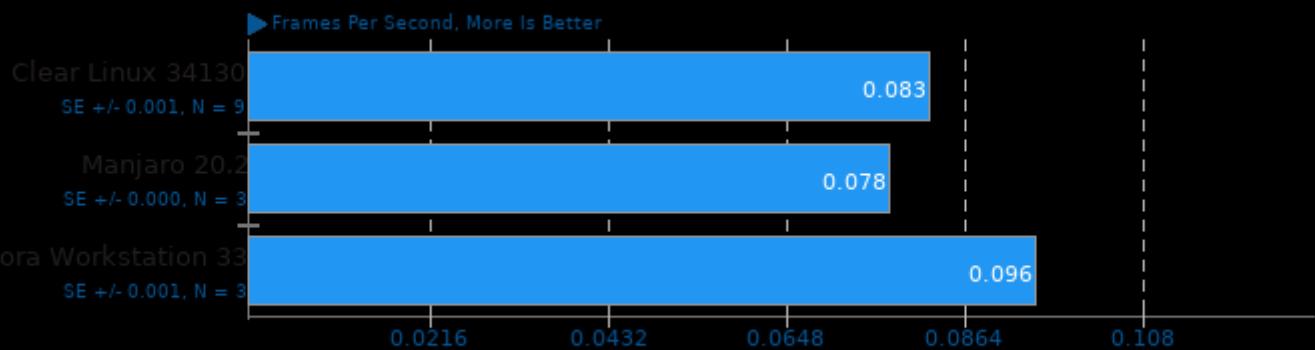
LibRaw 0.20 Post-Processing Benchmark



1. (CXX) g++ options: -fopenmp -ljpeg -lm

SVT-AV1 0.8

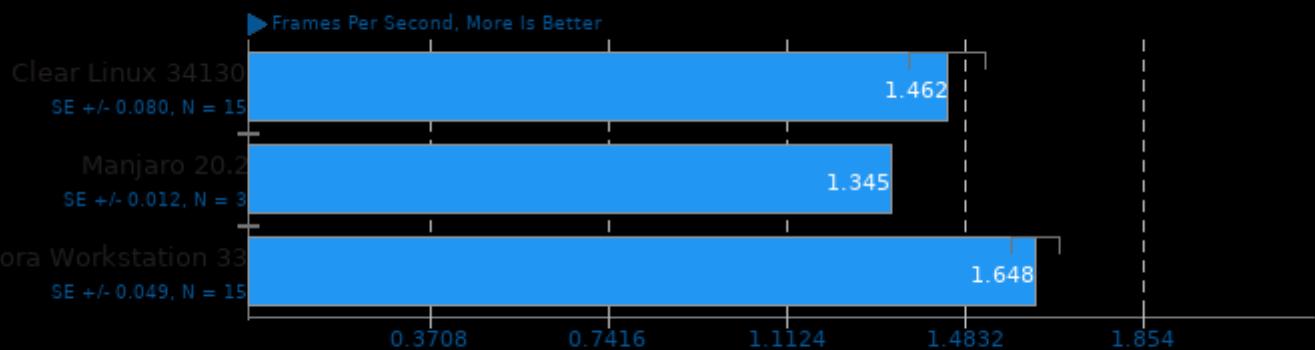
Encoder Mode: Enc Mode 0 - Input: 1080p



1. (CXX) g++ options: -O3 -fcommon -fPIE -fPIC -pie

SVT-AV1 0.8

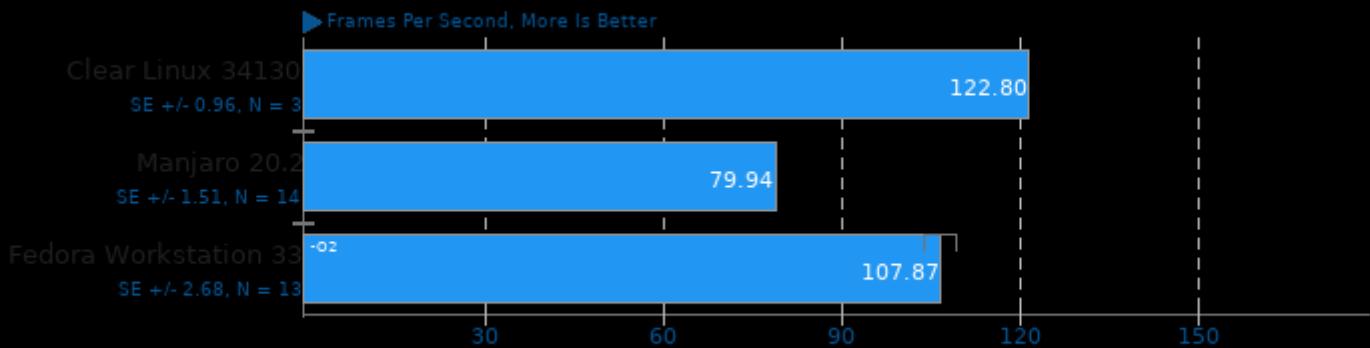
Encoder Mode: Enc Mode 4 - Input: 1080p



1. (CXX) g++ options: -O3 -fcommon -fPIE -fPIC -pie

SVT-VP9 0.1

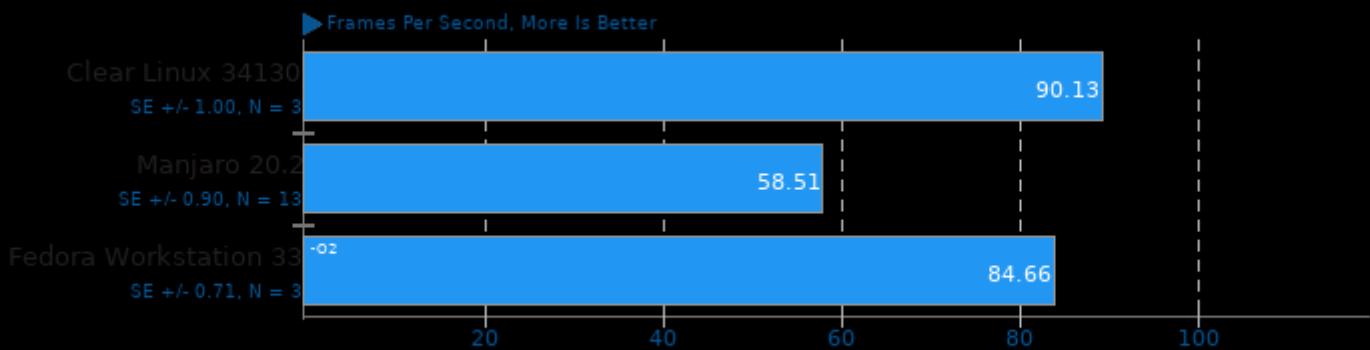
Tuning: PSNR/SSIM Optimized - Input: Bosphorus 1080p



1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

SVT-VP9 0.1

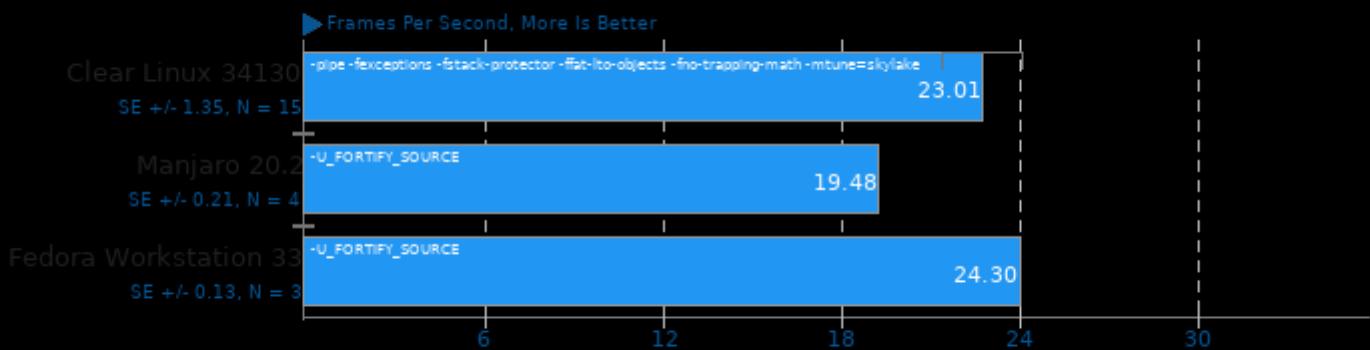
Tuning: Visual Quality Optimized - Input: Bosphorus 1080p



1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

VP9 libvpx Encoding 1.8.2

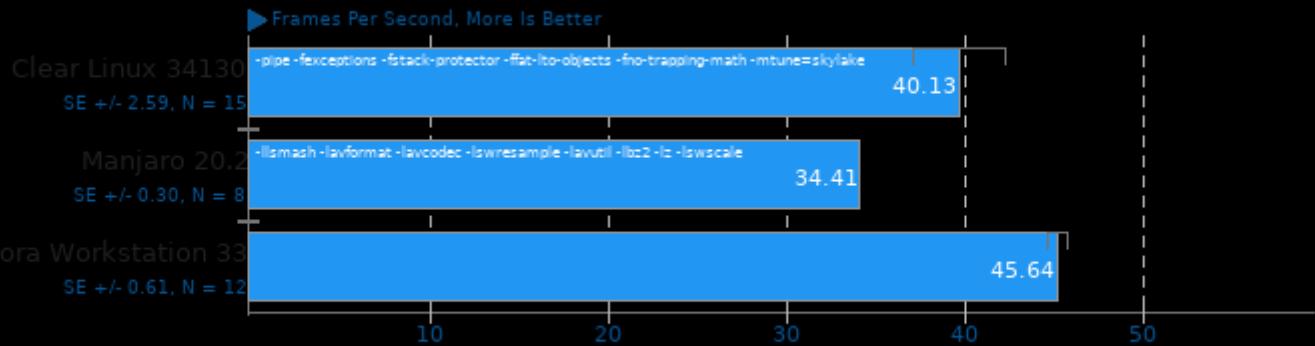
Speed: Speed 5



1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -std=c++11

x264 2019-12-17

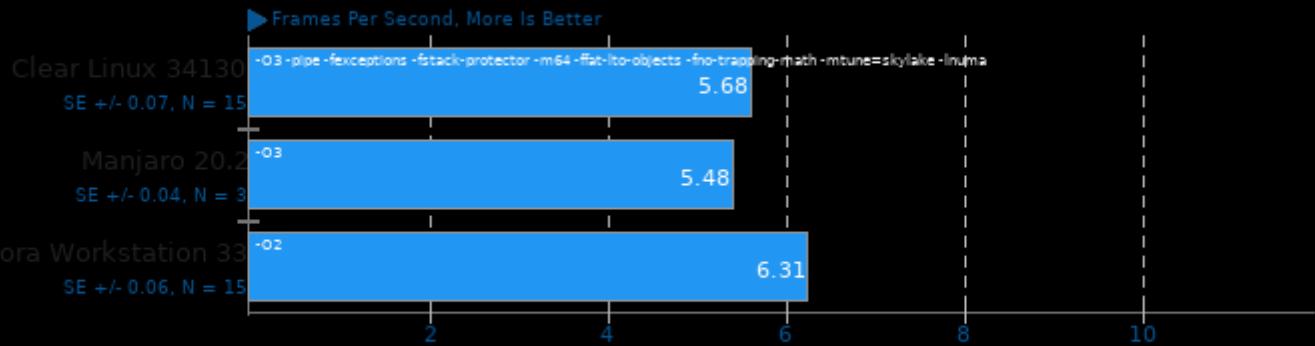
H.264 Video Encoding



1. (CC) gcc options: -ldl -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fPIC -fomit-frame-pointer -fno-tree-vectorize

x265 3.4

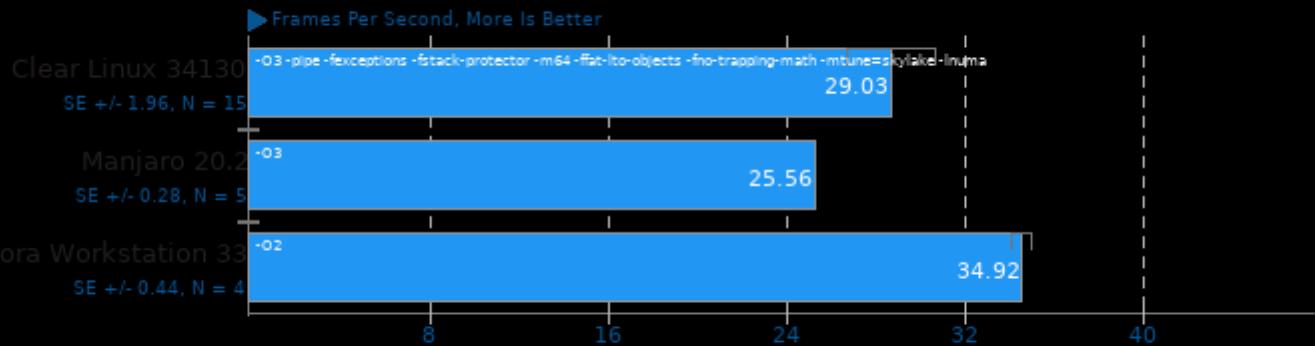
Video Input: Bosphorus 4K



1. (CXX) g++ options: -rdynamic -lpthread -lrt -ldl

x265 3.4

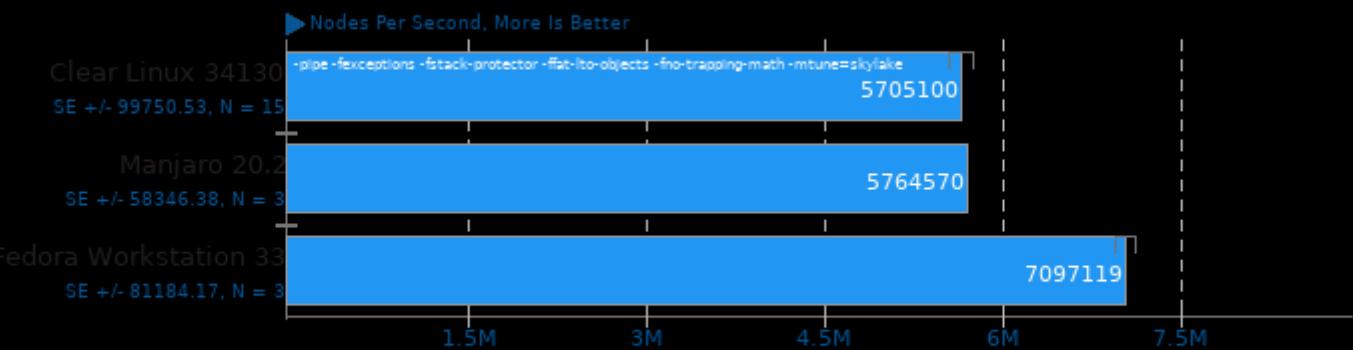
Video Input: Bosphorus 1080p



1. (CXX) g++ options: -rdynamic -lpthread -lrt -ldl

Stockfish 12

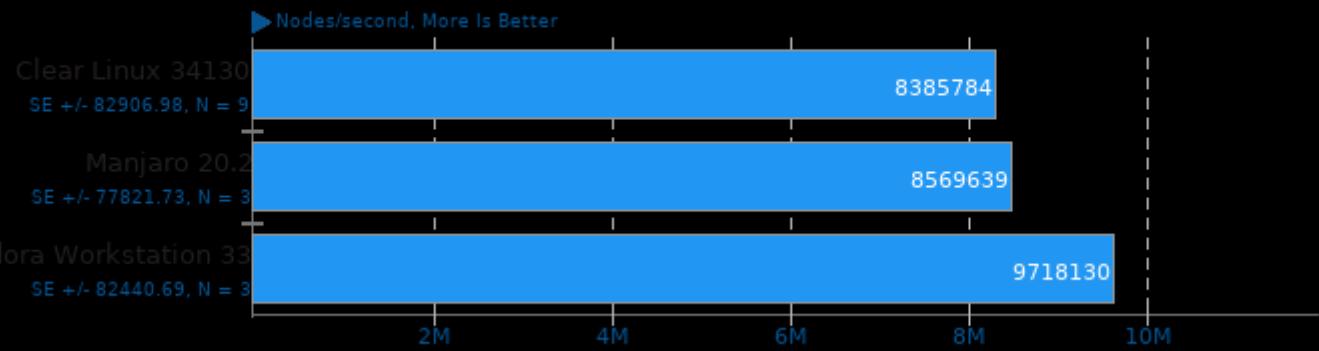
Total Time



1. (CXX) g++ options: -m64 -lpthread -O3 -fno-exceptions -std=c++17 -pedantic -msse -msse3 -mpopcnt -msse4.1 -mssse3 -msse2 -fno-f16c -fno=jobserver

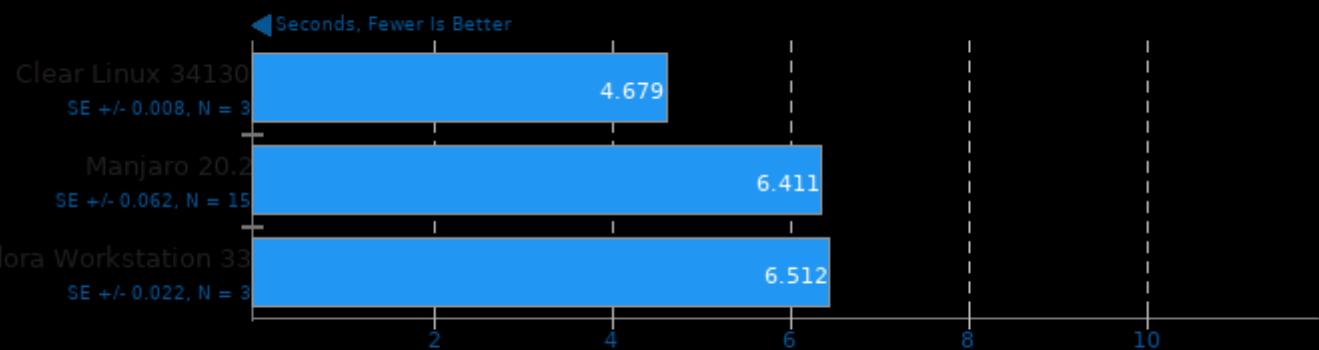
asmFish 2018-07-23

1024 Hash Memory, 26 Depth



libavif avifenc 0.7.3

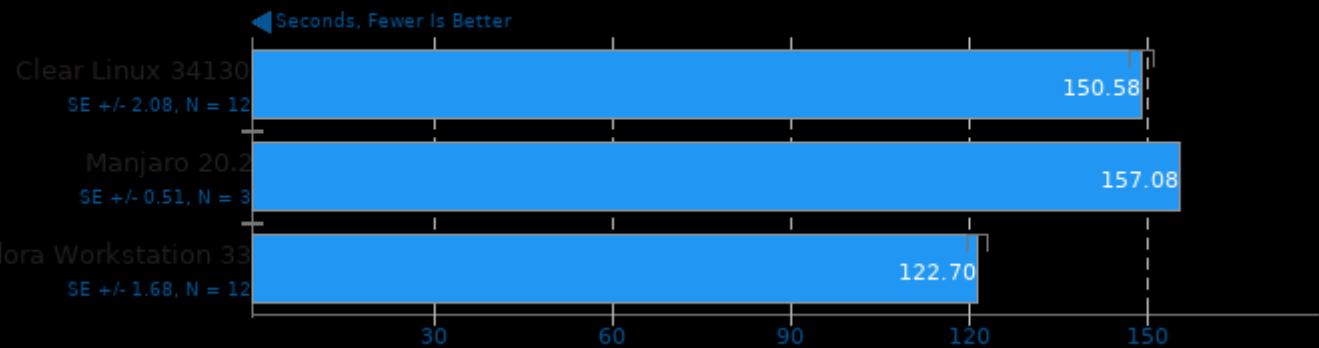
Encoder Speed: 10



1. (CXX) g++ options: -O3 -fPIC

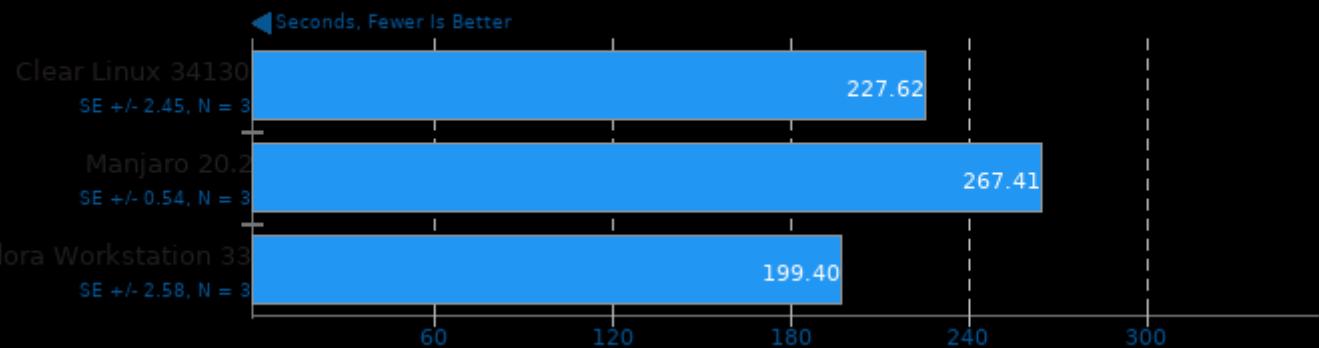
Timed FFmpeg Compilation 4.2.2

Time To Compile

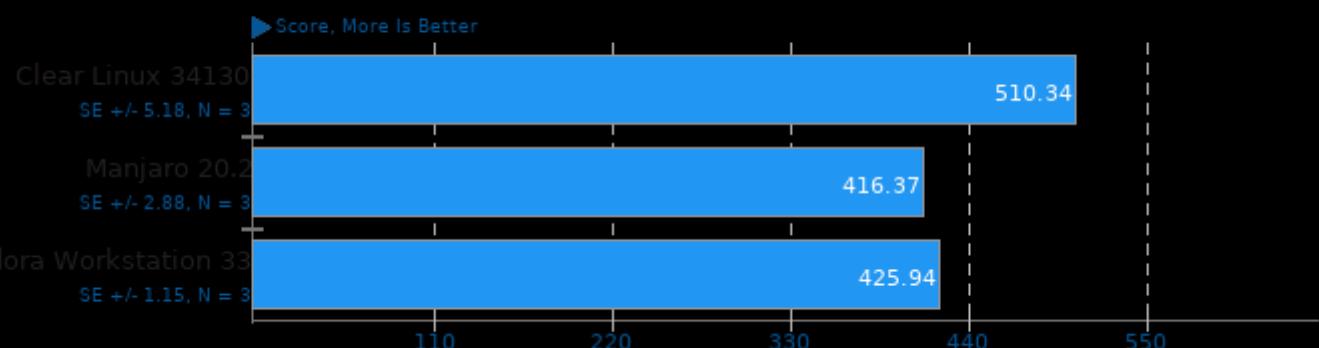


Timed Linux Kernel Compilation 5.4

Time To Compile

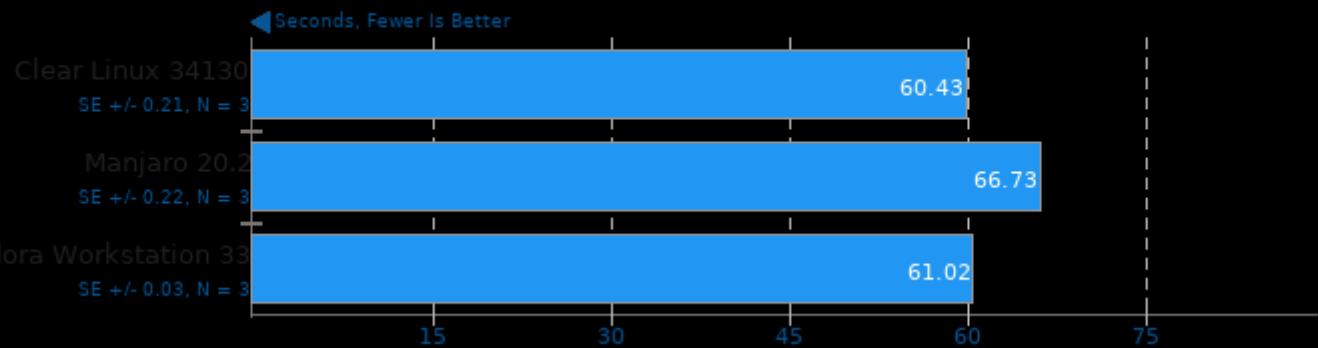


Numpy Benchmark



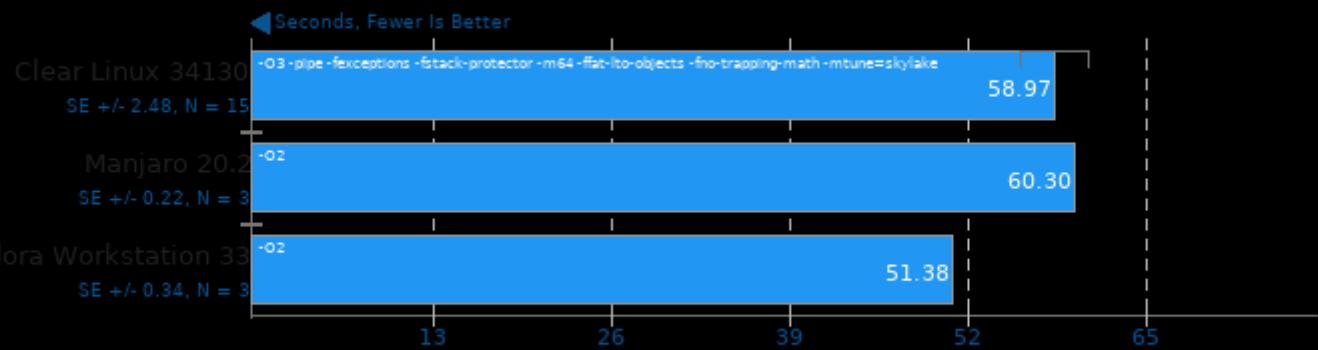
Timed Eigen Compilation 3.3.9

Time To Compile



XZ Compression 5.2.4

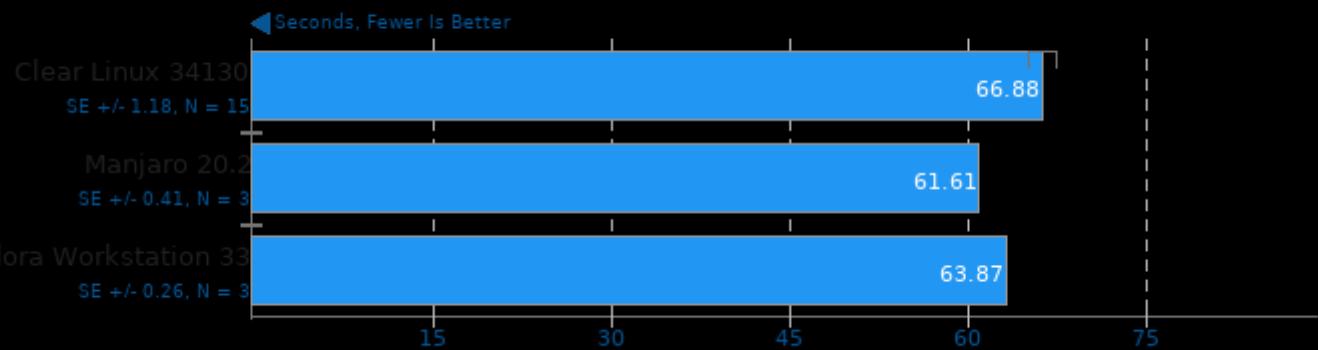
Compressing ubuntu-16.04.3-server-i386.img, Compression Level 9



1. (CC) gcc options: -pthread -fvisibility=hidden

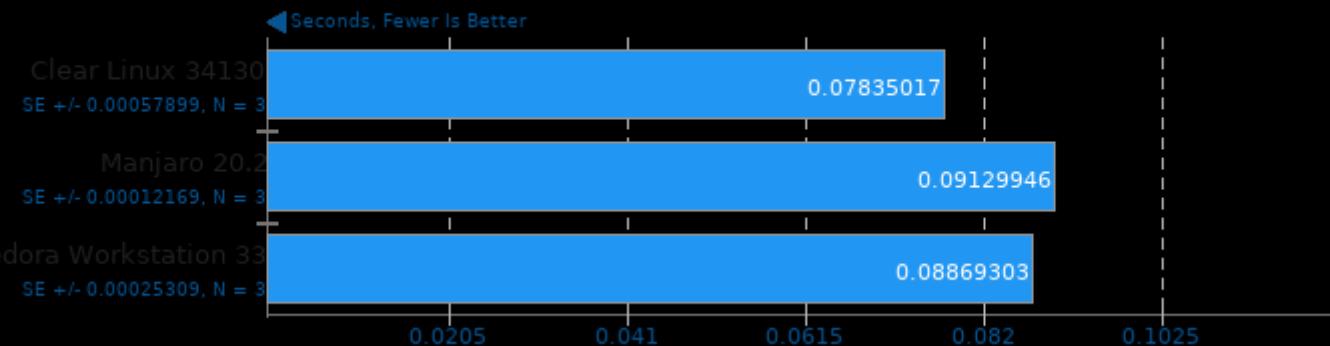
DeepSpeech 0.6

Acceleration: CPU



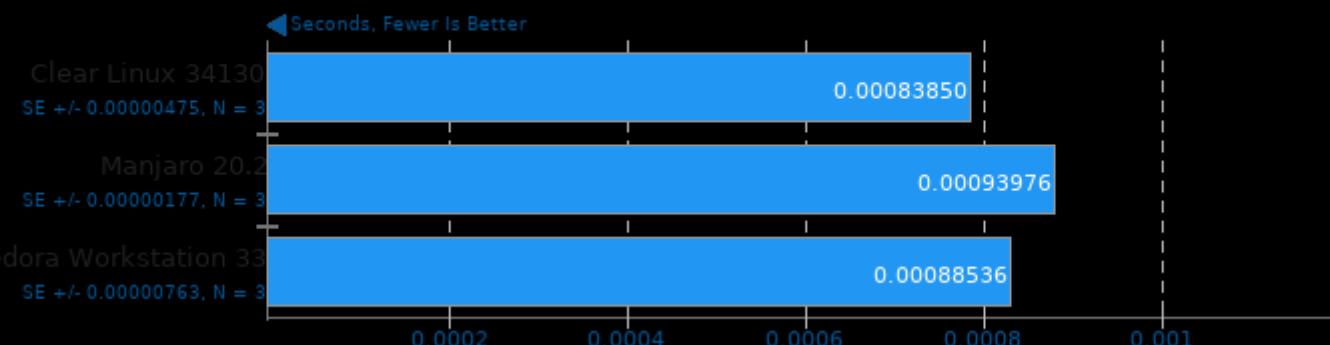
Perl Benchmarks

Test: Pod2html



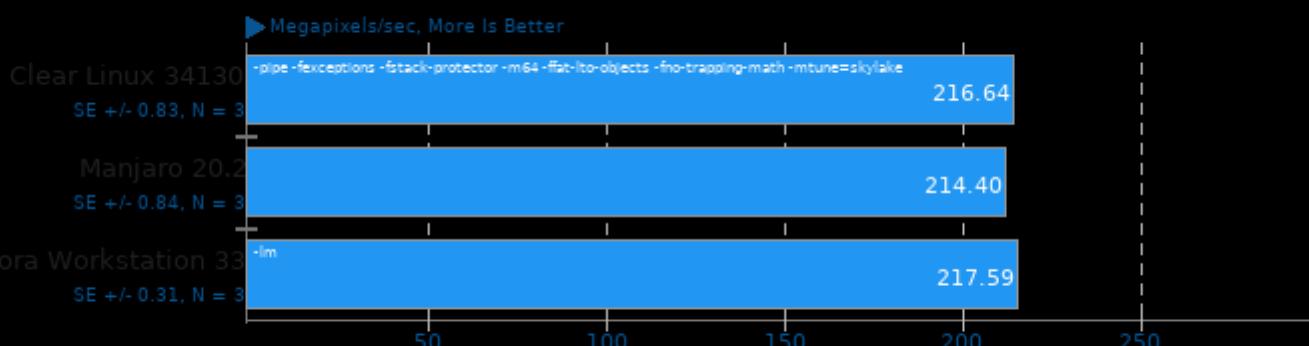
Perl Benchmarks

Test: Interpreter



libjpeg-turbo tjbench 2.0.2

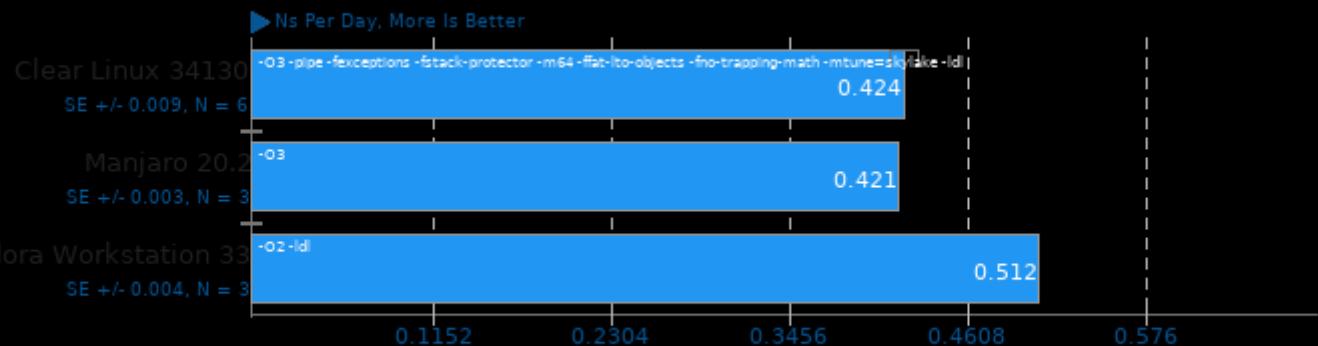
Test: Decompression Throughput



1. (CC) gcc options: -O3 -rdynamic

GROMACS 2020.3

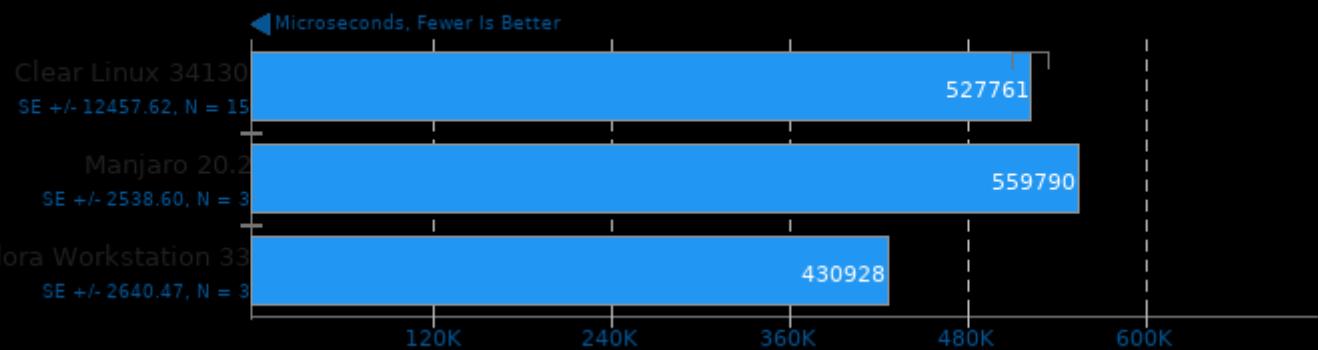
Water Benchmark



1. (CXX) g++ options: -pthread -Irt -Ipthread -lm

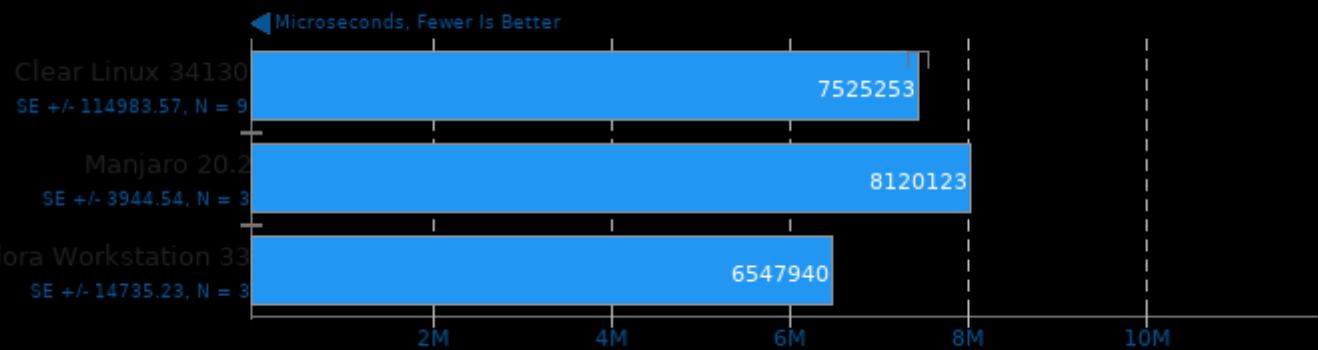
TensorFlow Lite 2020-08-23

Model: SqueezeNet



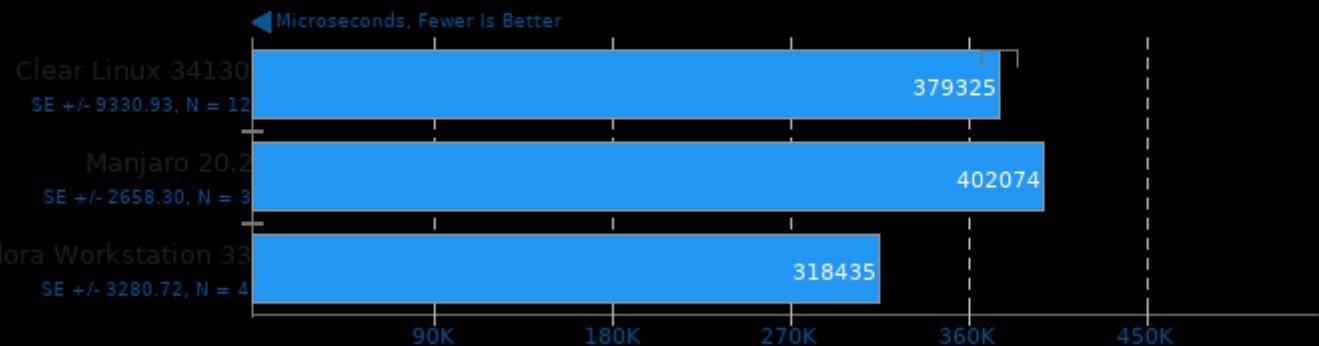
TensorFlow Lite 2020-08-23

Model: Inception V4



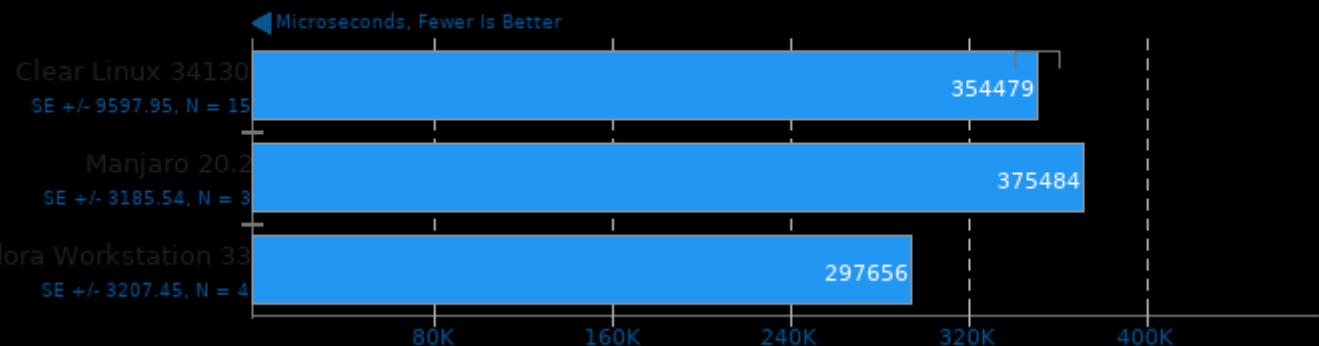
TensorFlow Lite 2020-08-23

Model: NASNet Mobile



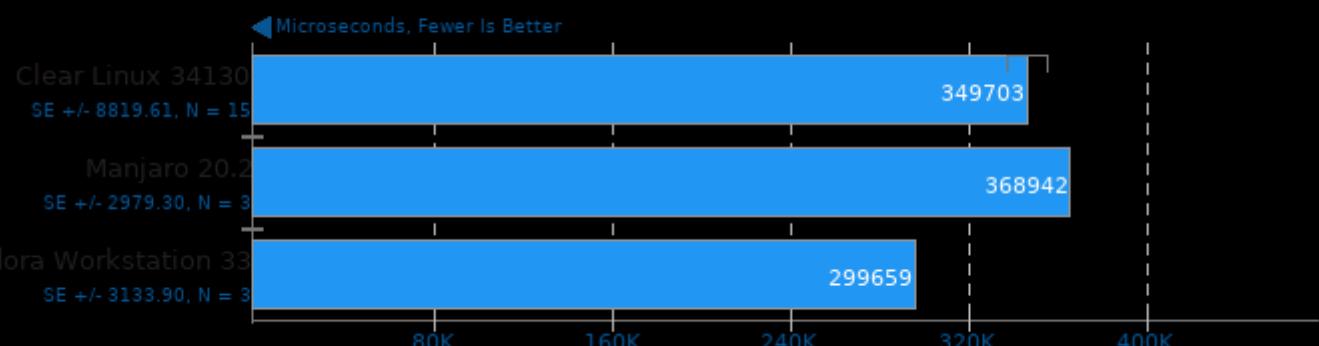
TensorFlow Lite 2020-08-23

Model: Mobilenet Float



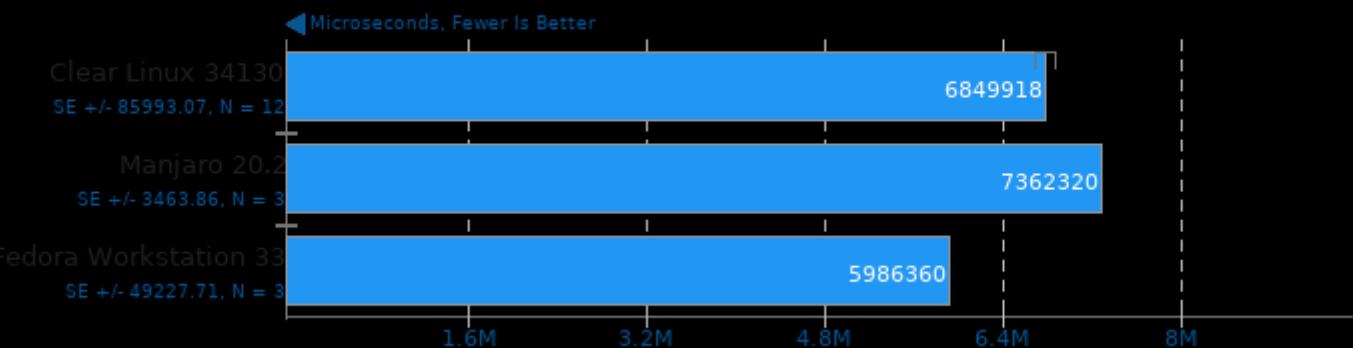
TensorFlow Lite 2020-08-23

Model: Mobilenet Quant



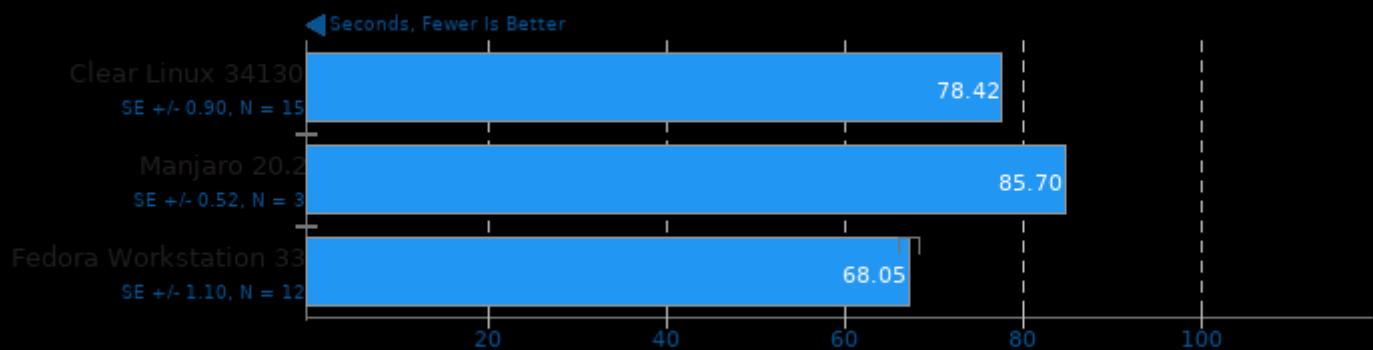
TensorFlow Lite 2020-08-23

Model: Inception ResNet V2



ASTC Encoder 2.0

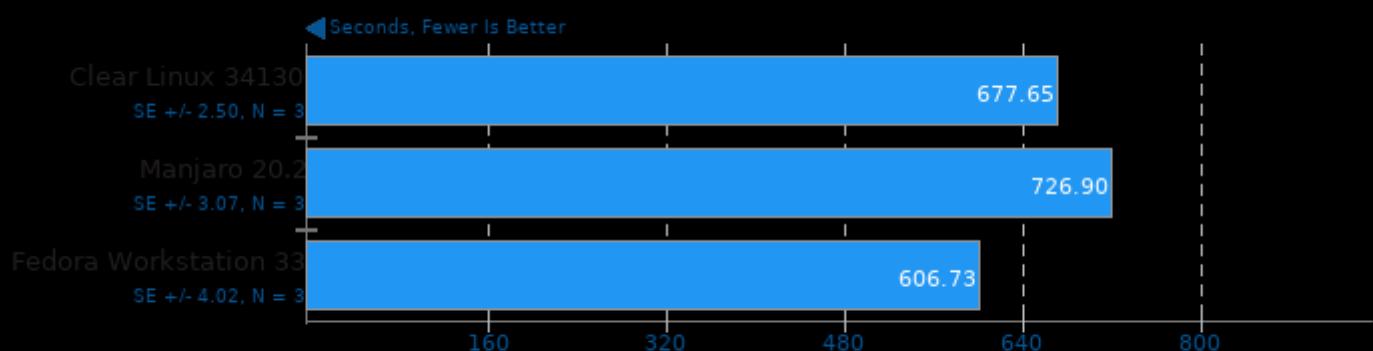
Preset: Thorough



1. (CXX) g++ options: -std=c++14 -fvisibility=hidden -O3 -fno -mfpmath=sse -mavx2 -mpopcnt -lpthread

ASTC Encoder 2.0

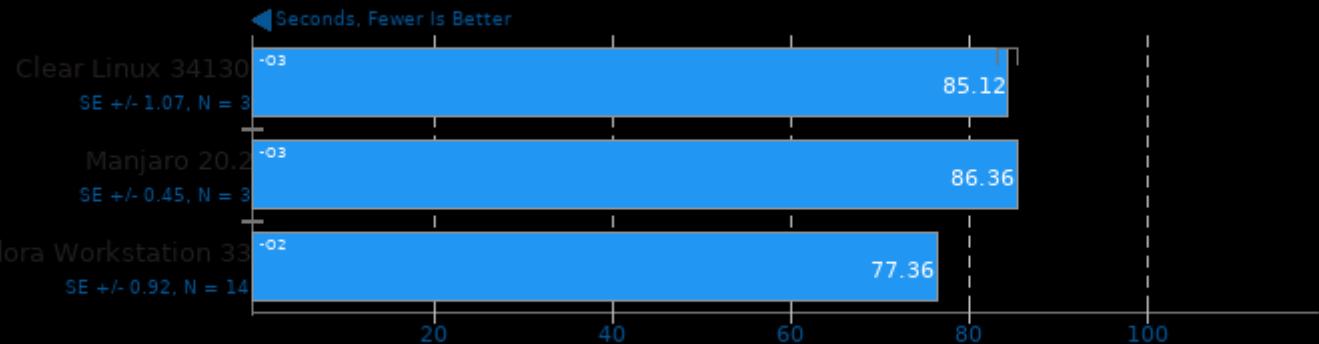
Preset: Exhaustive



1. (CXX) g++ options: -std=c++14 -fvisibility=hidden -O3 -fno -mfpmath=sse -mavx2 -mpopcnt -lpthread

Basis Universal 1.12

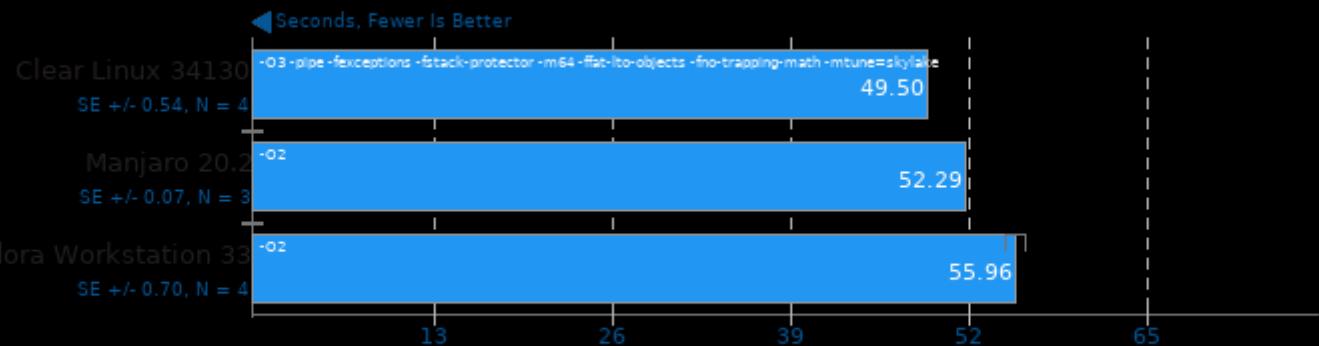
Settings: UASTC Level 2



1. (CXX) g++ options: -std=c++11 -fvisibility=hidden -fPIC -fno-strict-aliasing -rdynamic -lm -lpthread

SQLite Speedtest 3.30

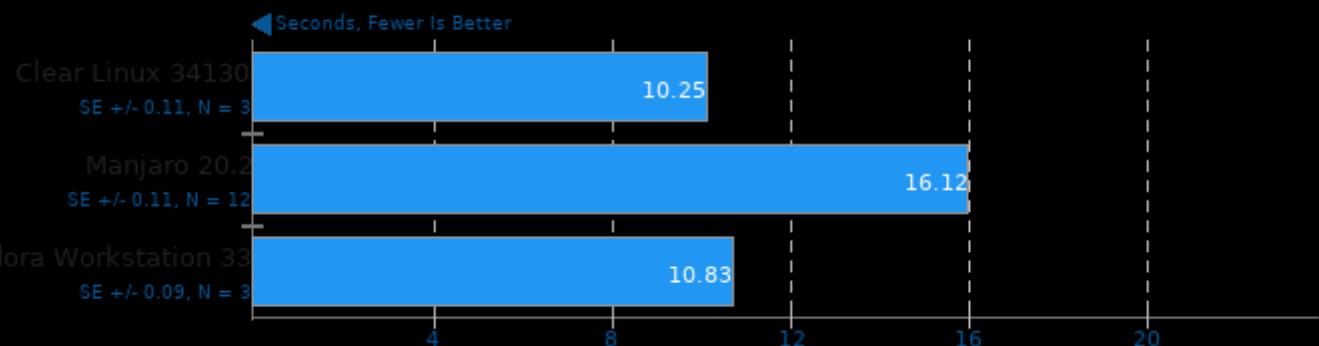
Timed Time - Size 1,000



1. (CC) gcc options: -ldl -lz -lpthread

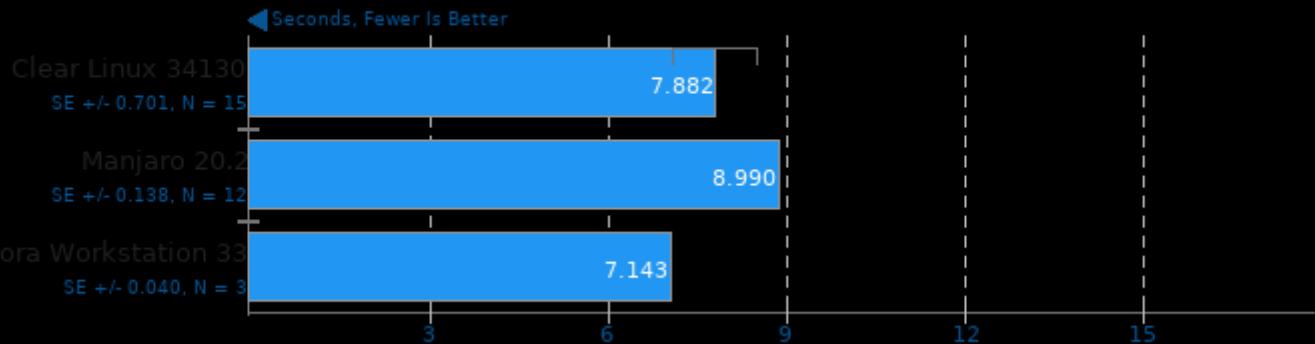
Darktable 3.2.1

Test: Boat - Acceleration: CPU-only



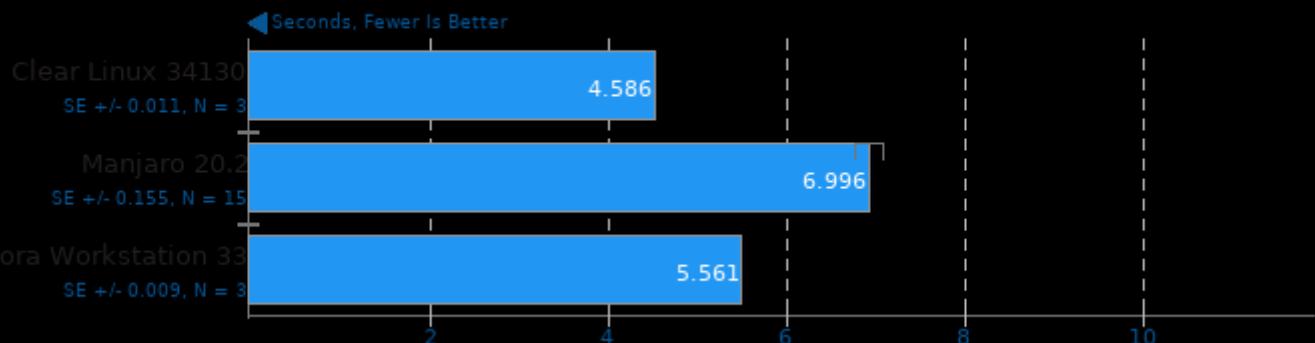
Darktable 3.2.1

Test: Masskrug - Acceleration: CPU-only



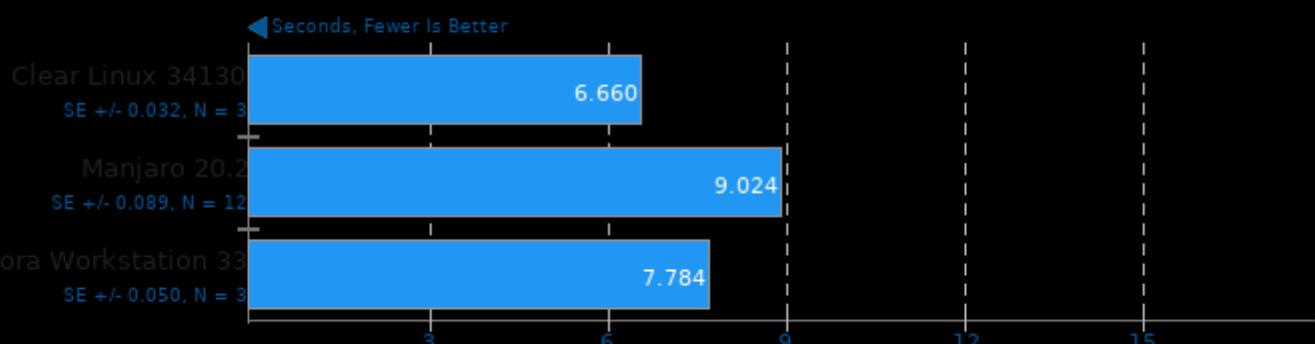
Darktable 3.2.1

Test: Server Room - Acceleration: CPU-only



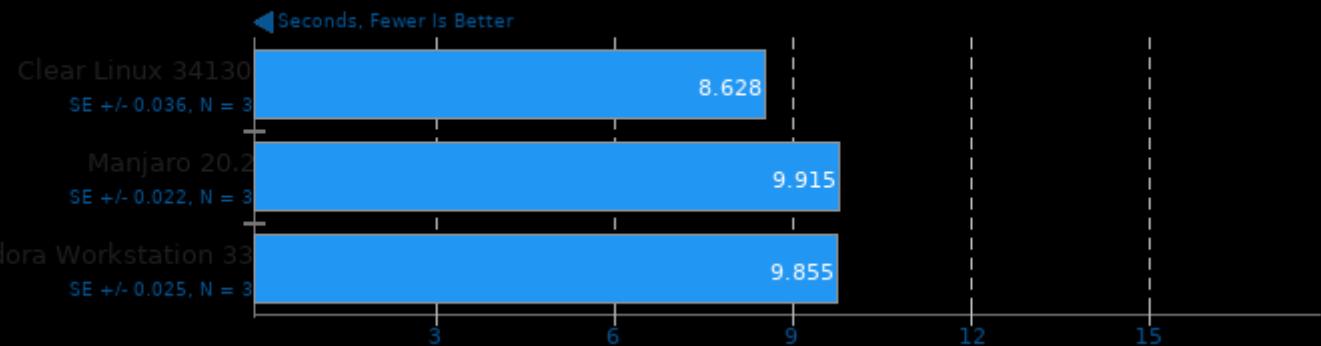
GIMP 2.10.22

Test: resize



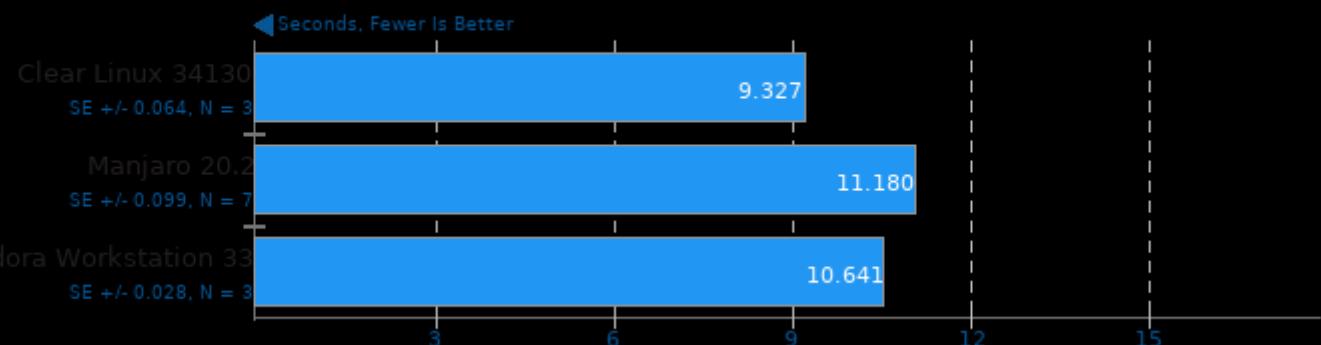
GIMP 2.10.22

Test: rotate



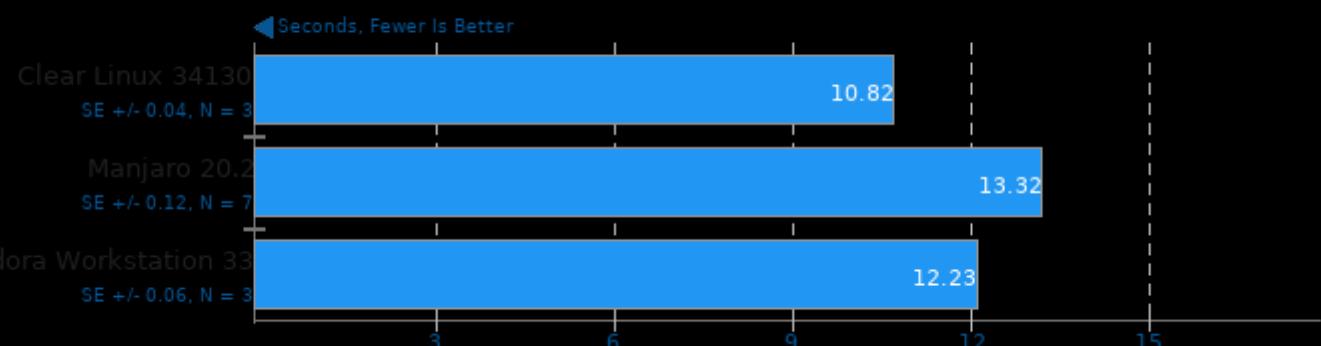
GIMP 2.10.22

Test: auto-levels



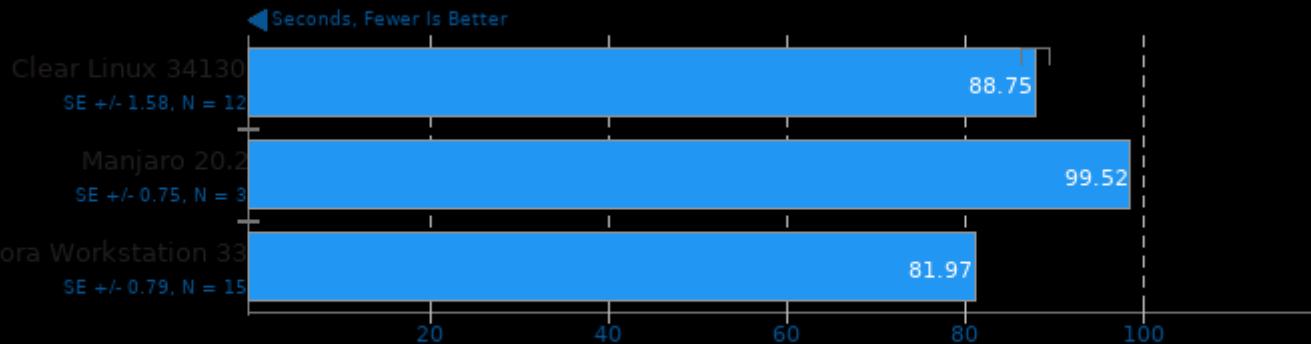
GIMP 2.10.22

Test: unsharp-mask



RawTherapee

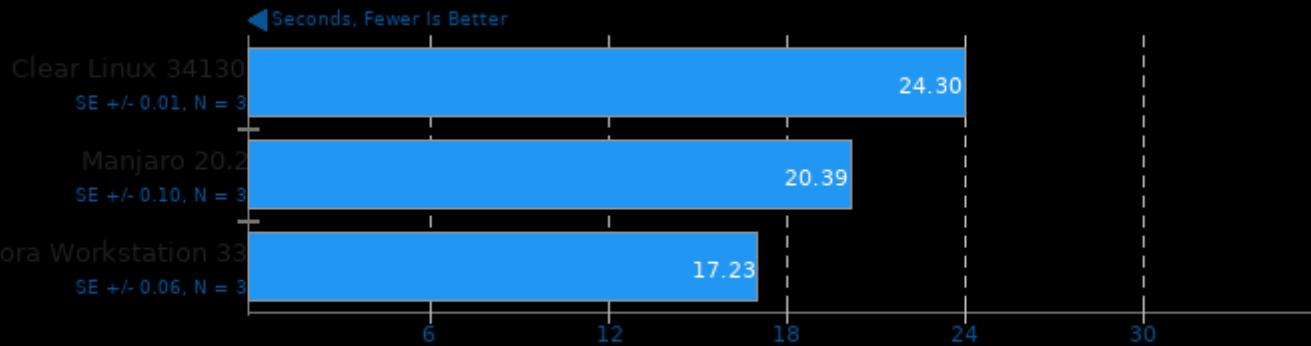
Total Benchmark Time



1. Clear Linux 34130: RawTherapee, version , command line.
2. Manjaro 20.2: RawTherapee, version 5.8, command line.
3. Fedora Workstation 33: RawTherapee, version 5.8, command line.

librsvg

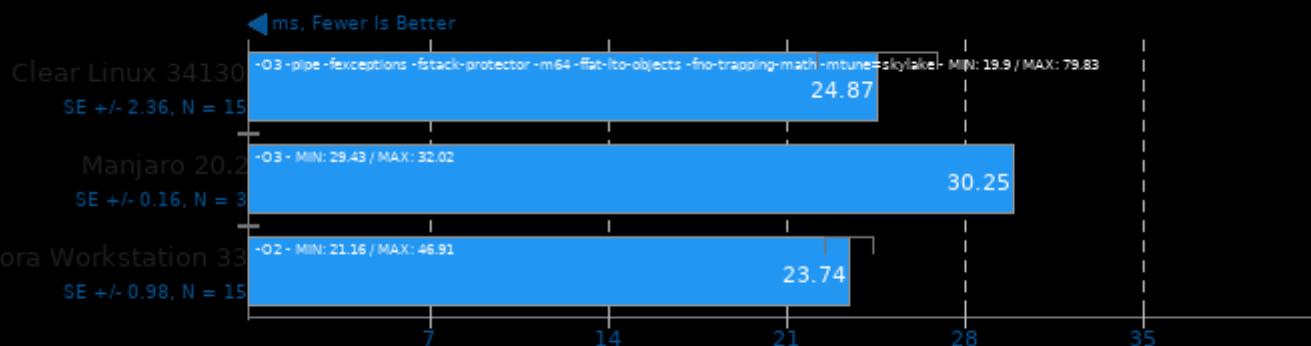
Operation: SVG Files To PNG



1. rsvg-convert version 2.50.2

NCNN 20201218

Target: CPU - Model: mobilenet

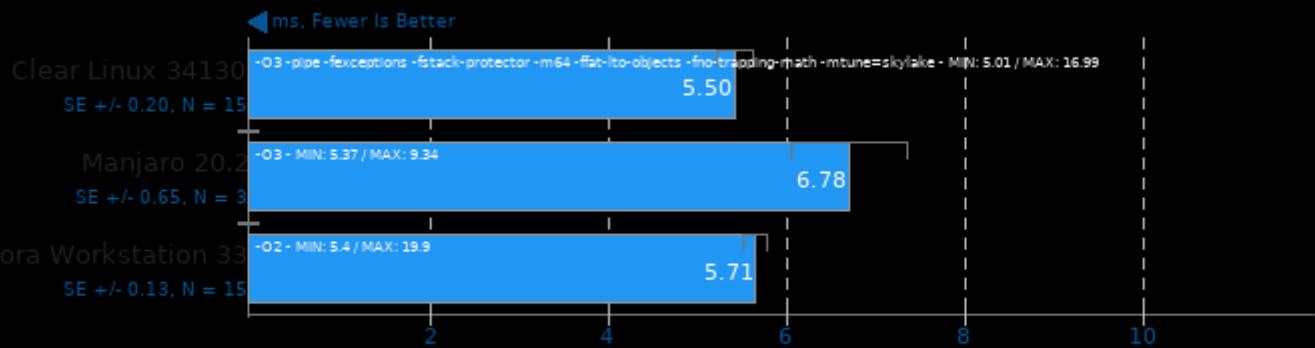


1. (CXX) g++ options: -rdynamic -lgomp -lpthread

Clear Linux Tiger Lake

NCNN 20201218

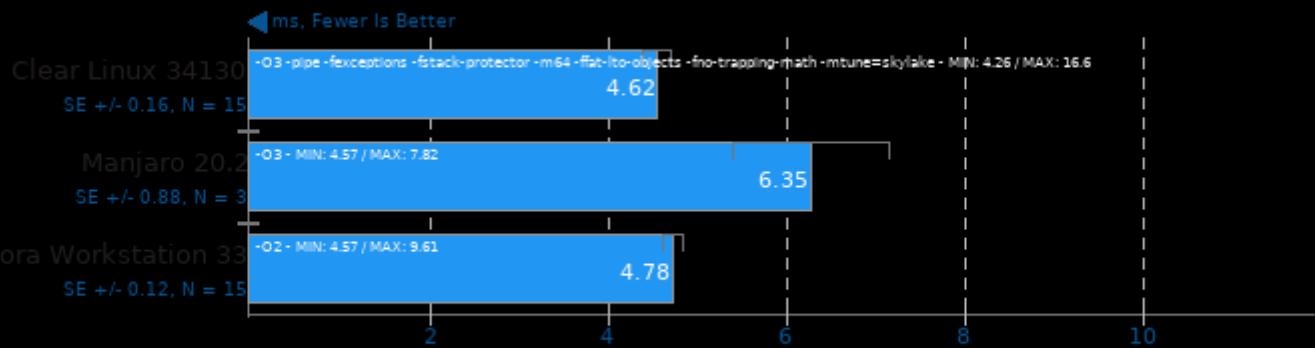
Target: CPU-v2-v2 - Model: mobilenet-v2



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

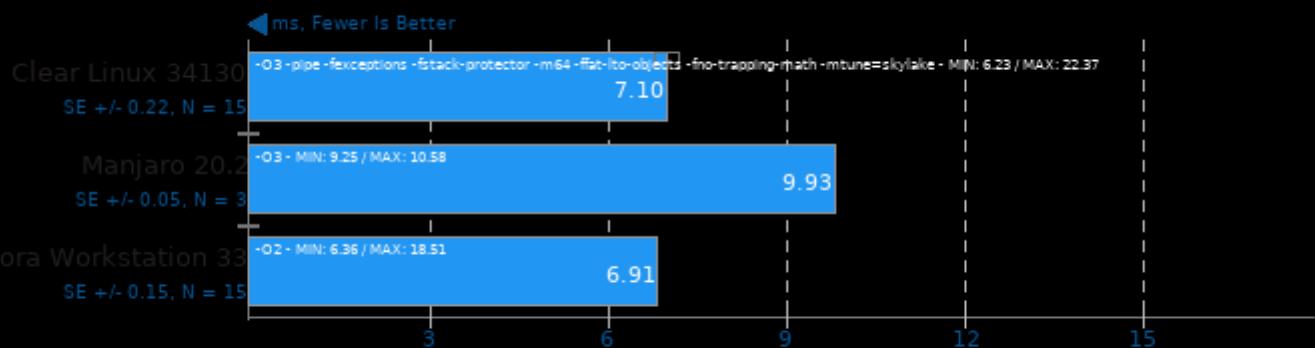
Target: CPU-v3-v3 - Model: mobilenet-v3



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

Target: CPU - Model: shufflenet-v2

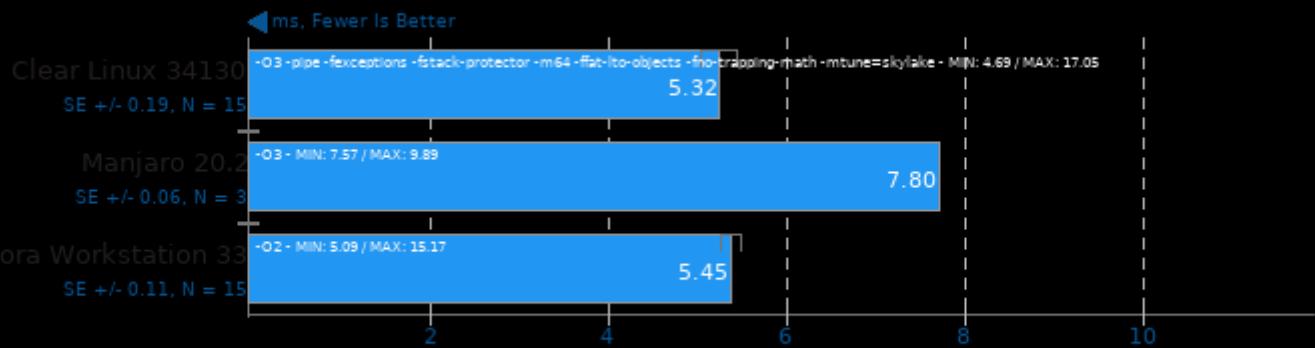


1. (CXX) g++ options: -rdynamic -lgomp -lpthread

Clear Linux Tiger Lake

NCNN 20201218

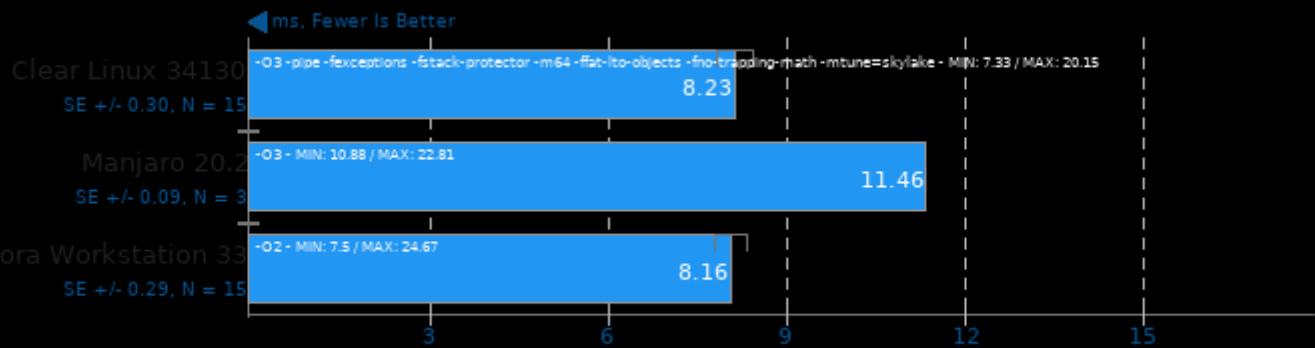
Target: CPU - Model: mnasnet



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

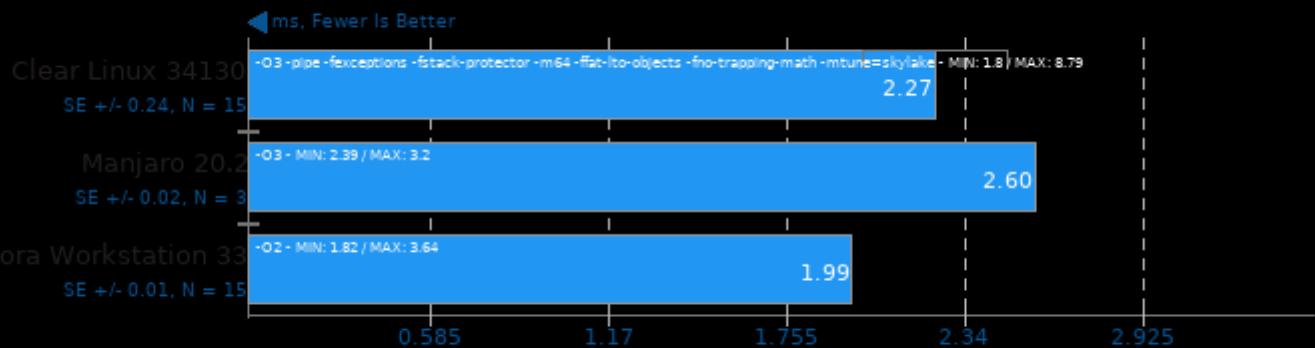
Target: CPU - Model: efficientnet-b0



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

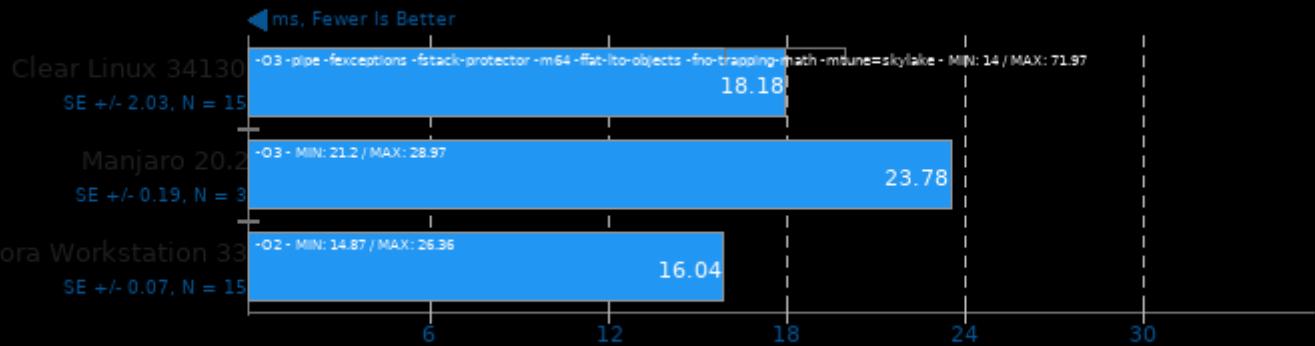
Target: CPU - Model: blazeface



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

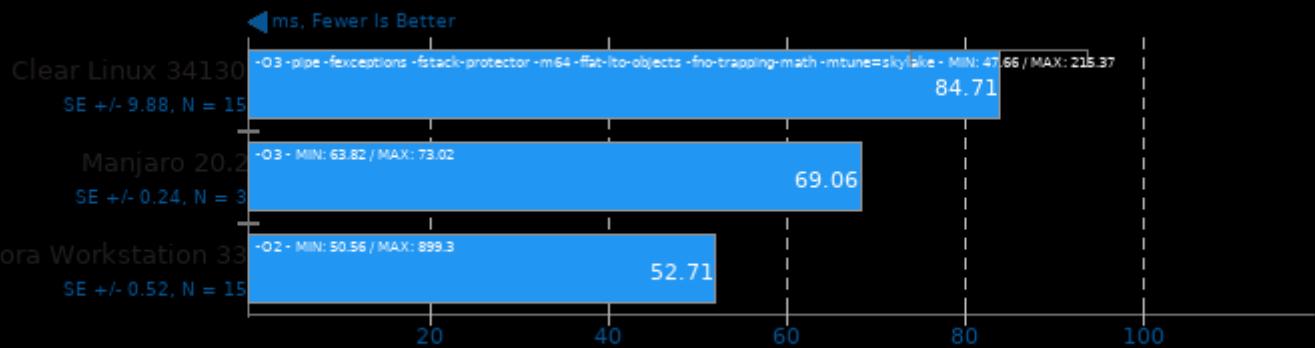
Target: CPU - Model: googlenet



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

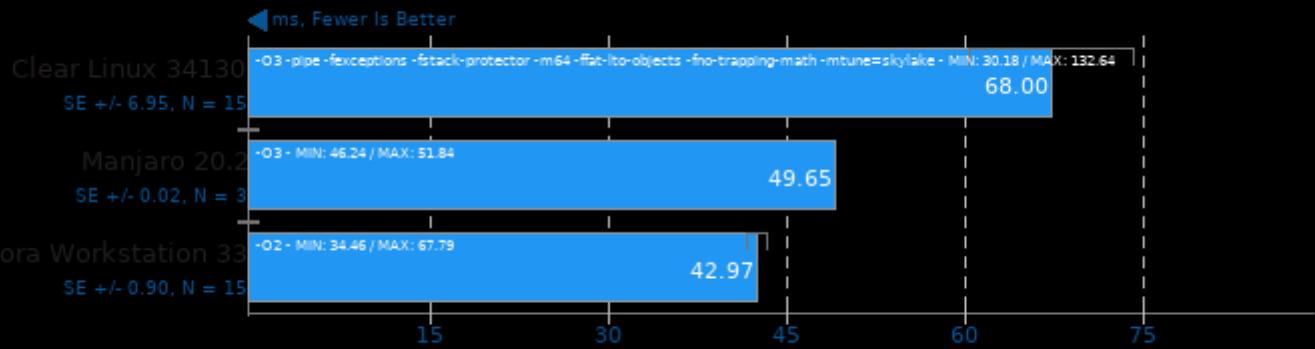
Target: CPU - Model: vgg16



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

Target: CPU - Model: resnet50

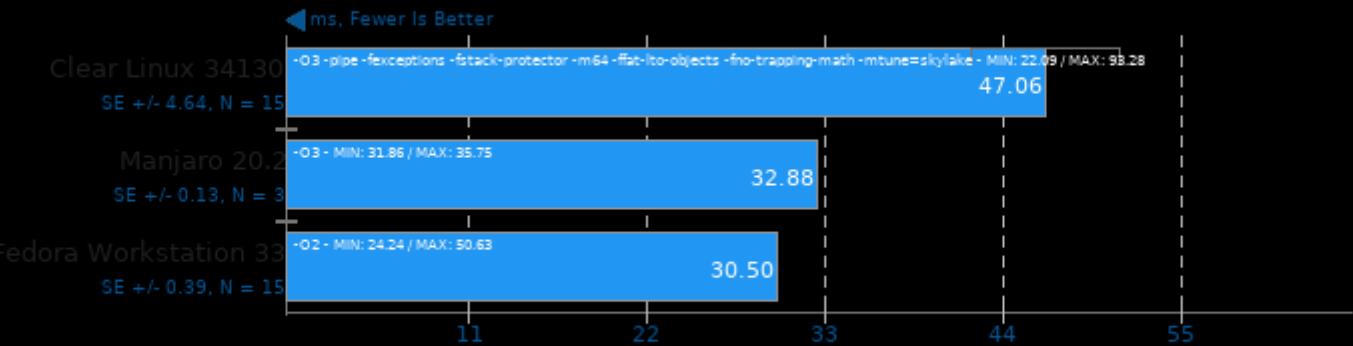


1. (CXX) g++ options: -rdynamic -lgomp -lpthread

Clear Linux Tiger Lake

NCNN 20201218

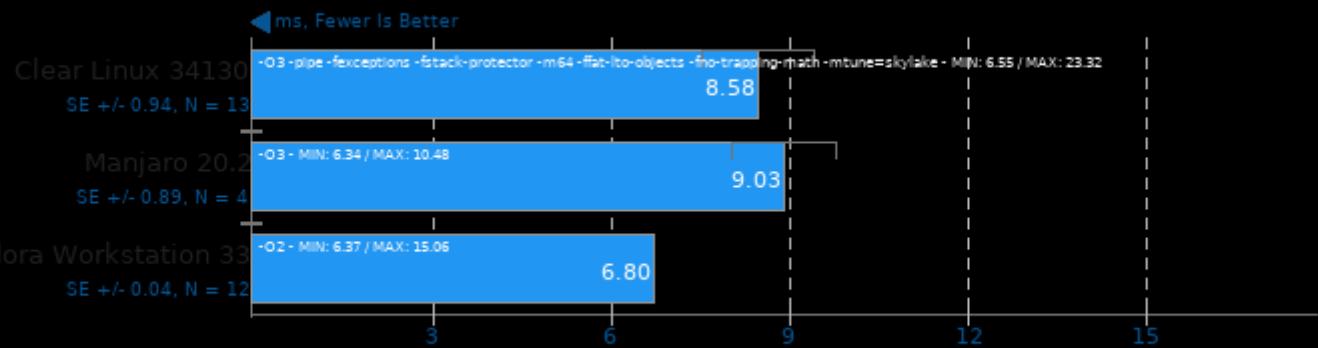
Target: CPU - Model: squeezeenet_ssd



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

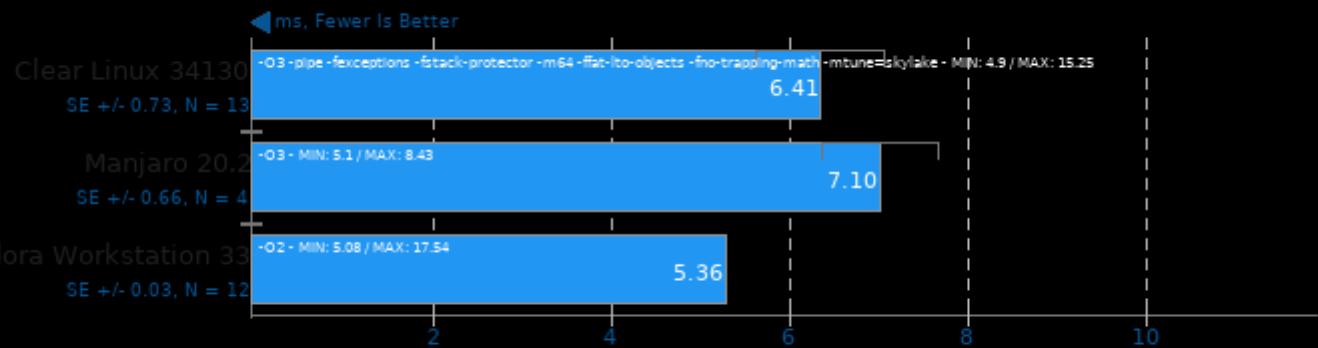
Target: Vulkan GPU - Model: shufflenet-v2



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

Target: Vulkan GPU - Model: mnasnet

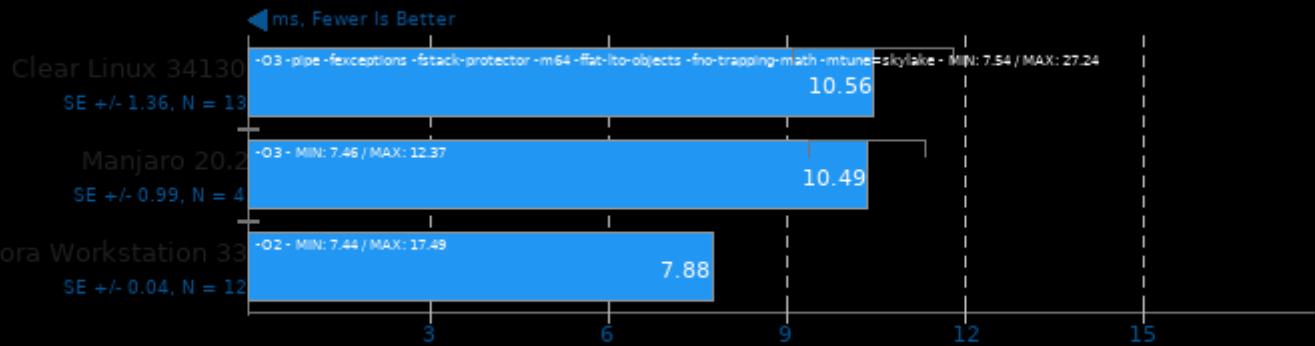


1. (CXX) g++ options: -rdynamic -lgomp -lpthread

Clear Linux Tiger Lake

NCNN 20201218

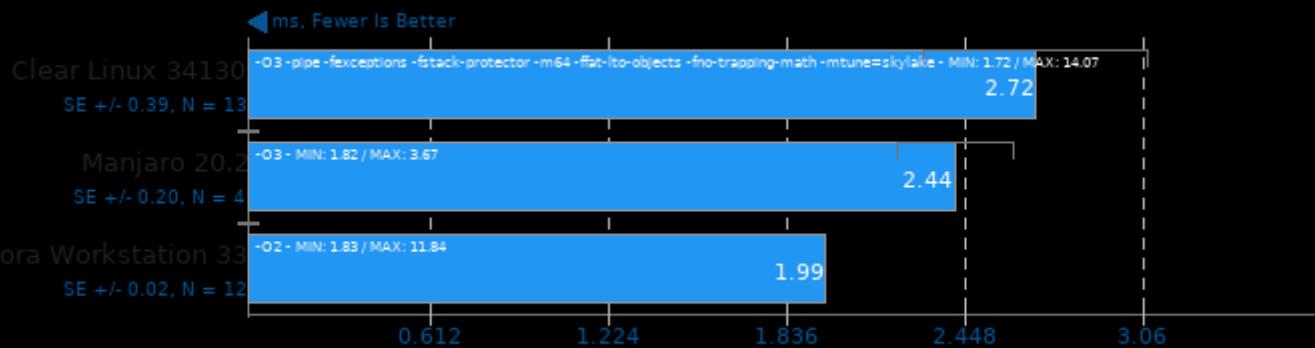
Target: Vulkan GPU - Model: efficientnet-b0



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

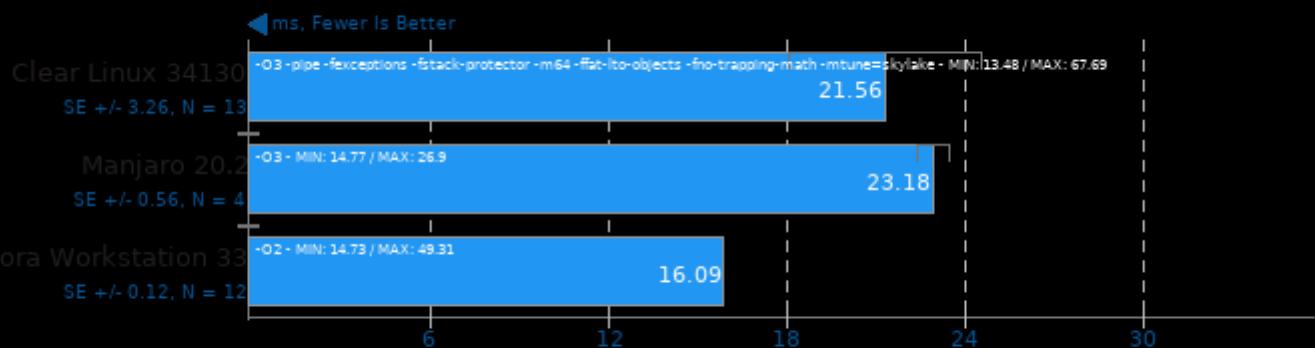
Target: Vulkan GPU - Model: blazeface



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

Target: Vulkan GPU - Model: googlenet

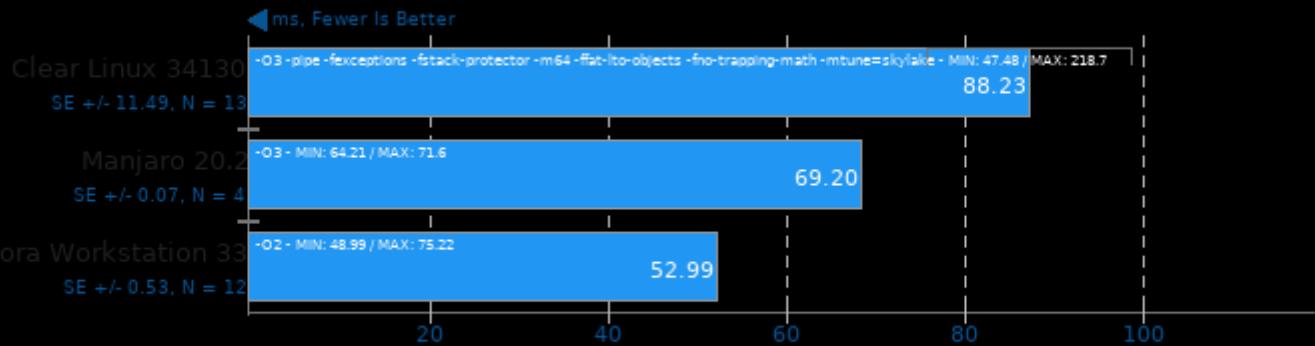


1. (CXX) g++ options: -rdynamic -lgomp -lpthread

Clear Linux Tiger Lake

NCNN 20201218

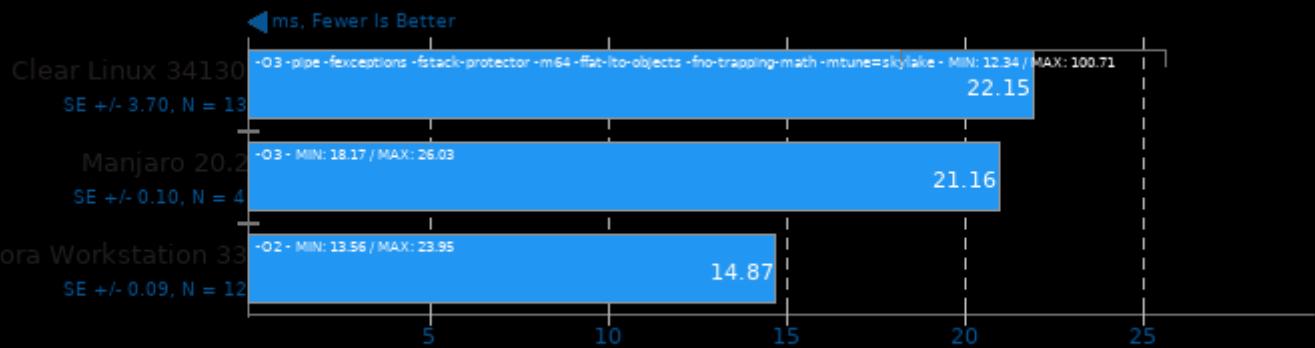
Target: Vulkan GPU - Model: vgg16



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

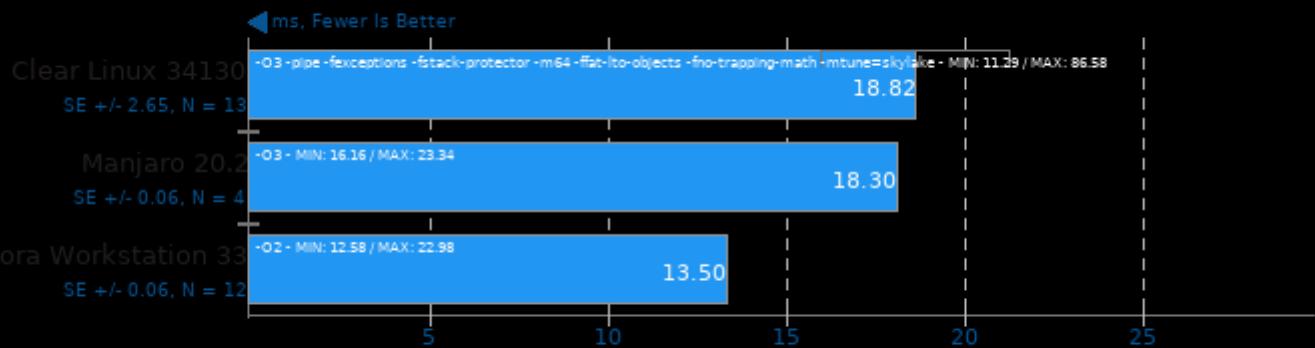
Target: Vulkan GPU - Model: resnet18



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

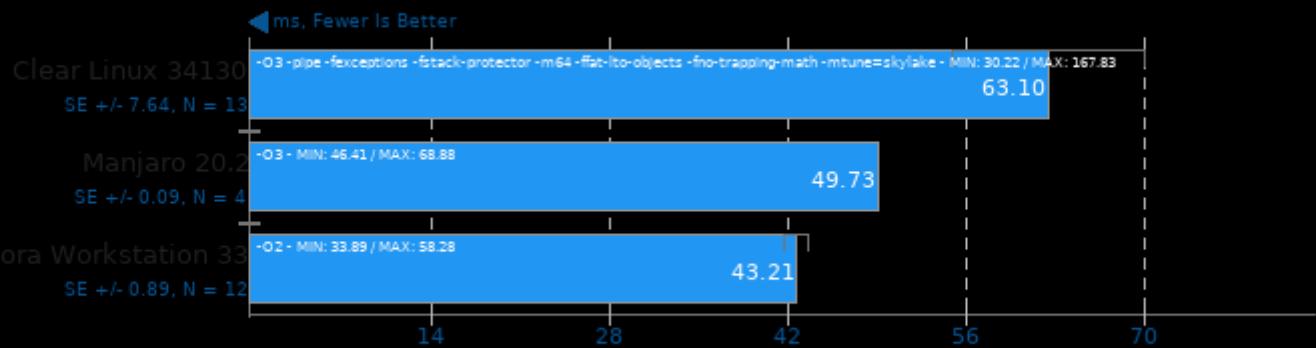
Target: Vulkan GPU - Model: alexnet



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

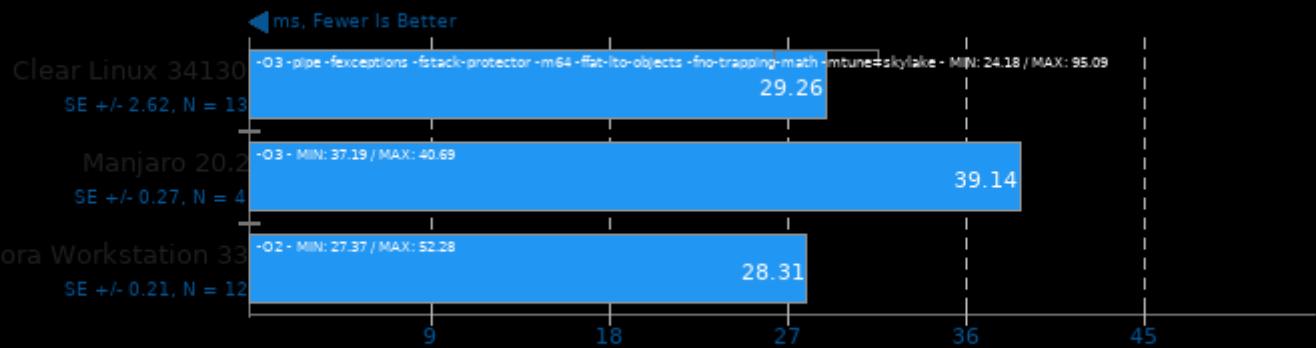
Target: Vulkan GPU - Model: resnet50



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

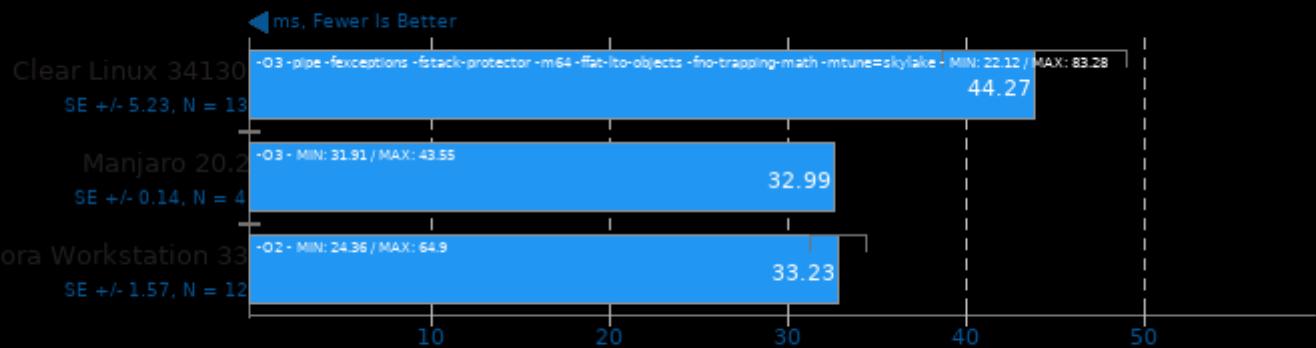
Target: Vulkan GPU - Model: yolov4-tiny



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

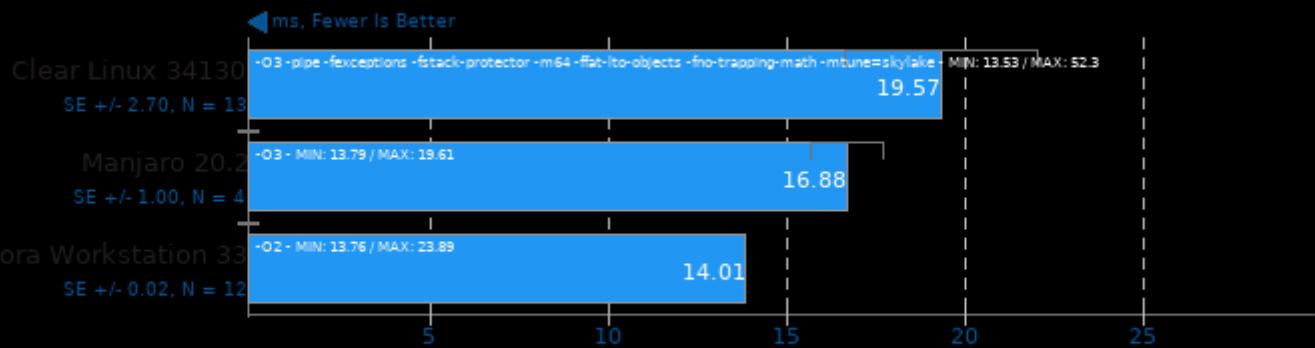
Target: Vulkan GPU - Model: squeezenet_ssdl



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

NCNN 20201218

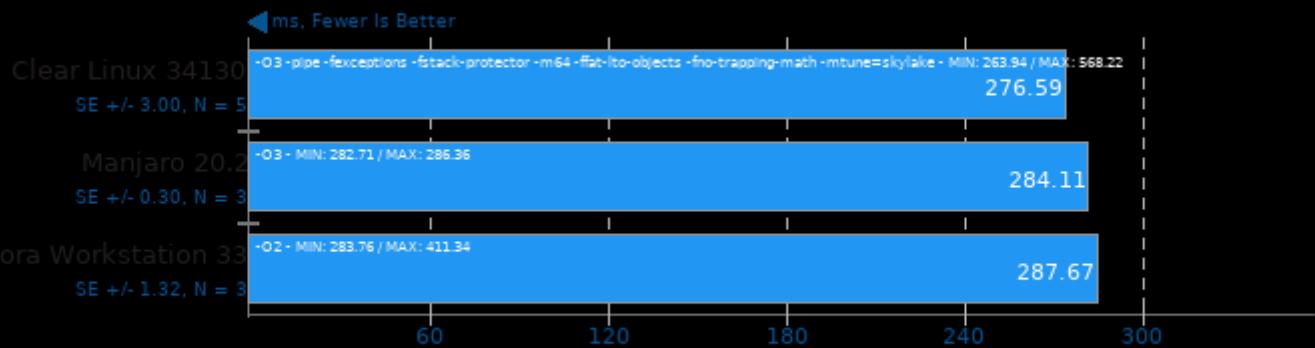
Target: Vulkan GPU - Model: regnety_400m



1. (CXX) g++ options: -rdynamic -lgomp -lpthread

TNN 0.2.3

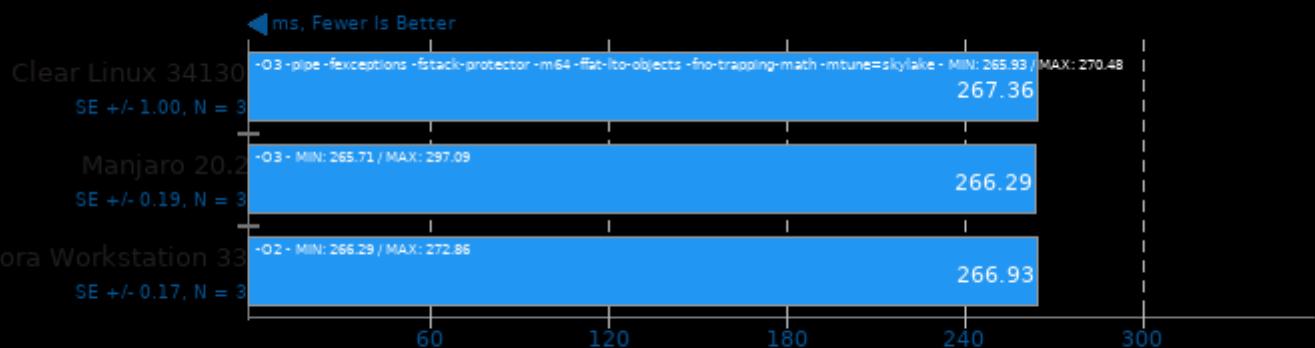
Target: CPU - Model: MobileNet v2



1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -rdynamic -ldl

TNN 0.2.3

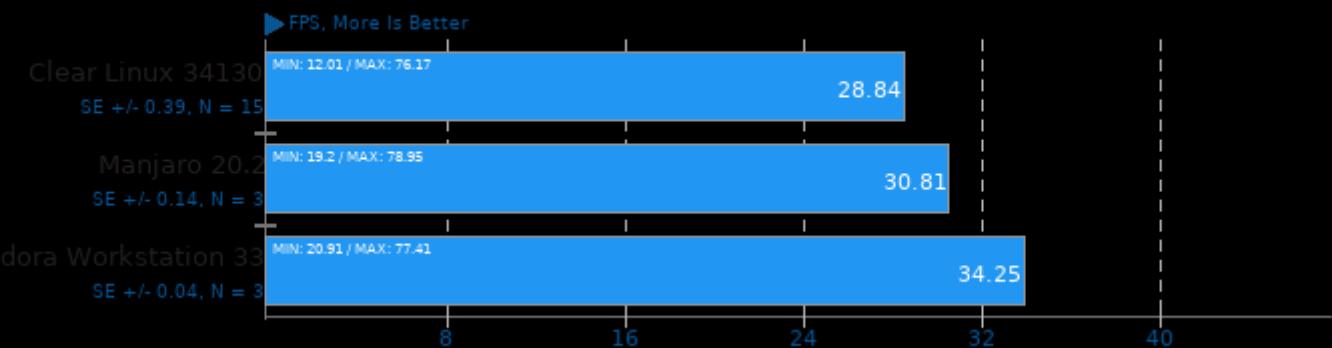
Target: CPU - Model: SqueezeNet v1.1



1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -rdynamic -ldl

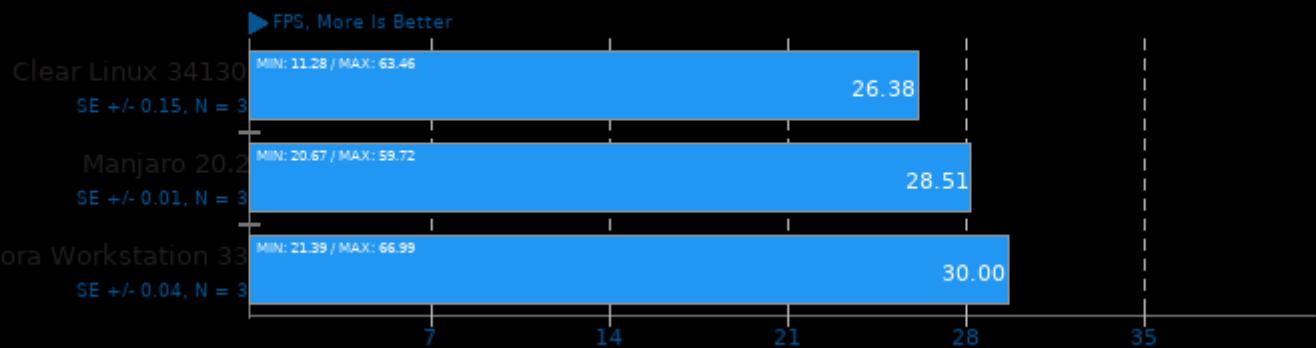
Basemark GPU 1.2

Renderer: OpenGL - Resolution: 1920 x 1200 - Graphics Preset: High



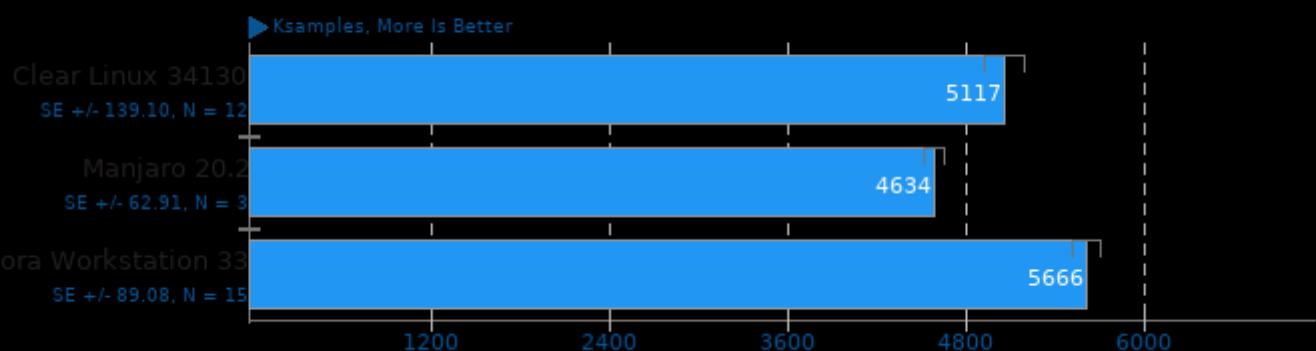
Basemark GPU 1.2

Renderer: Vulkan - Resolution: 1920 x 1200 - Graphics Preset: High



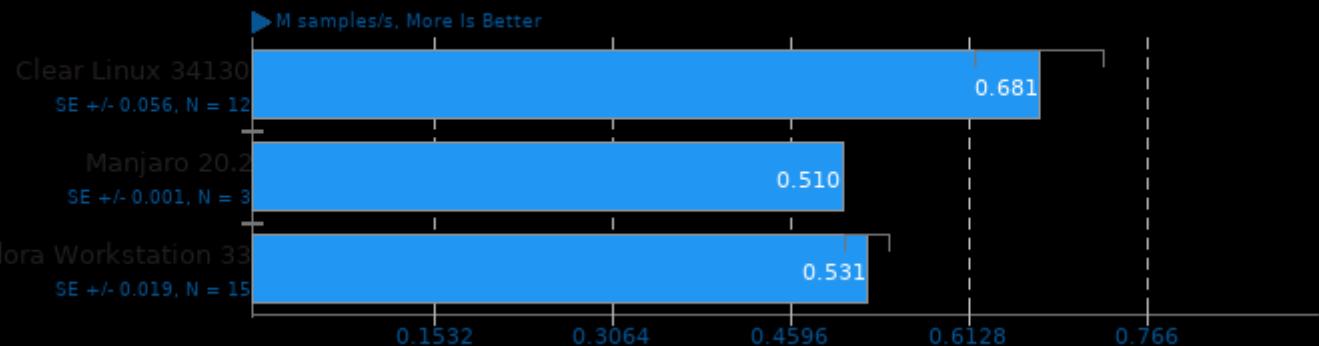
Chaos Group V-RAY 4.10.07

Mode: CPU



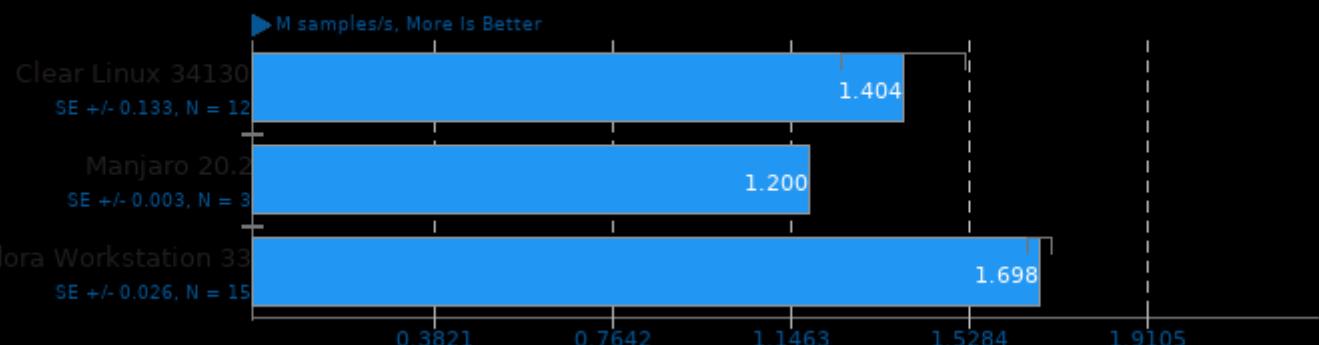
IndigoBench 4.4

Acceleration: CPU - Scene: Bedroom



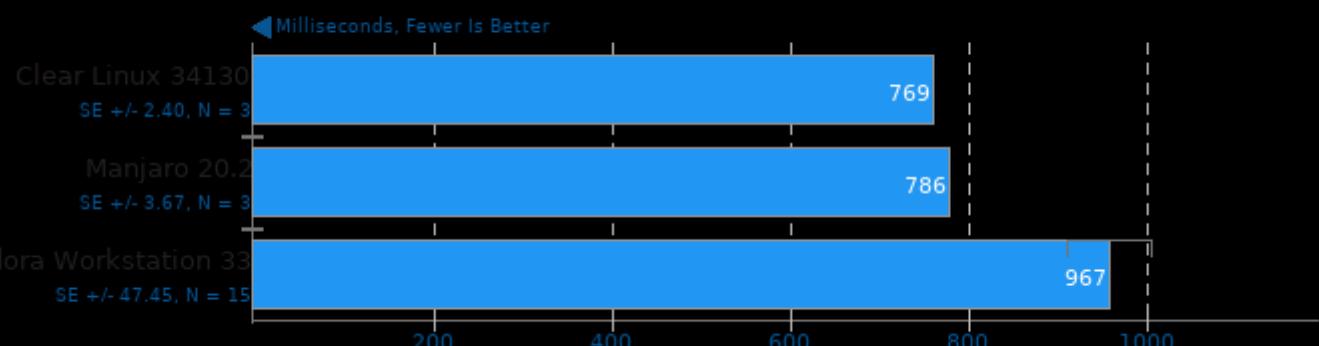
IndigoBench 4.4

Acceleration: CPU - Scene: Supercar



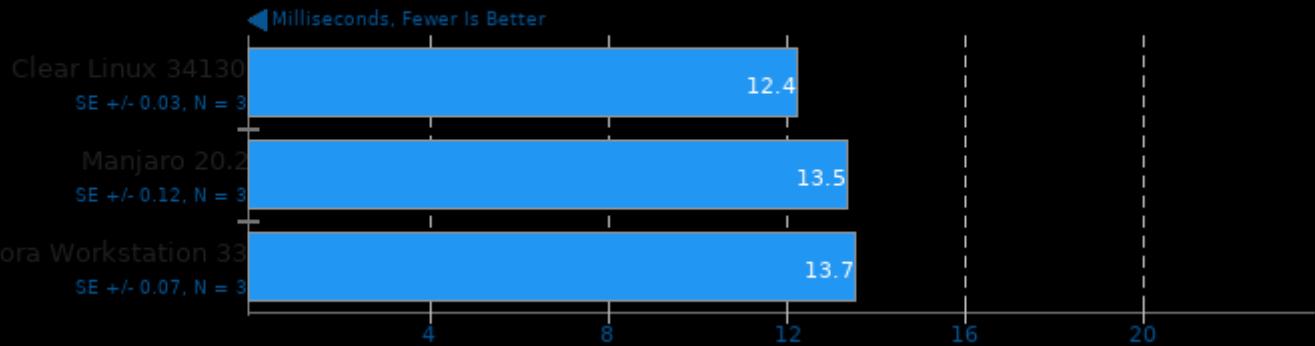
PyBench 2018-02-16

Total For Average Test Times



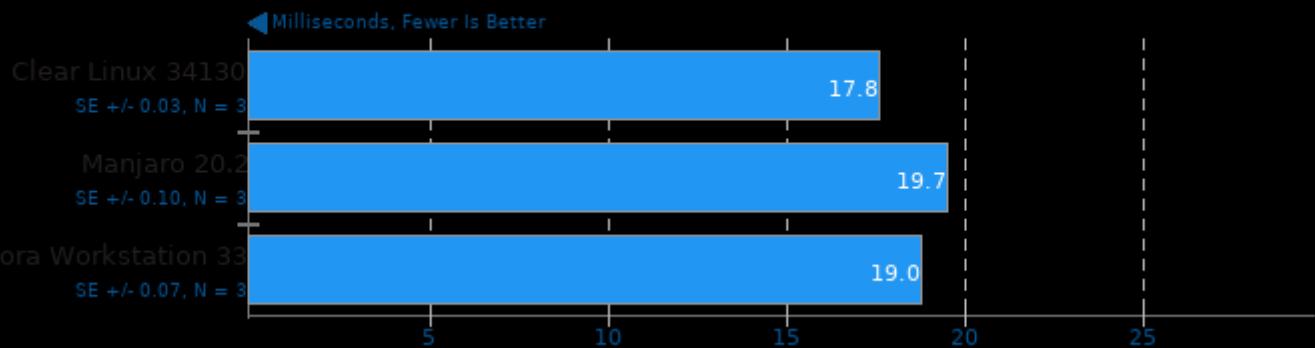
PyPerformance 1.0.0

Benchmark: pathlib



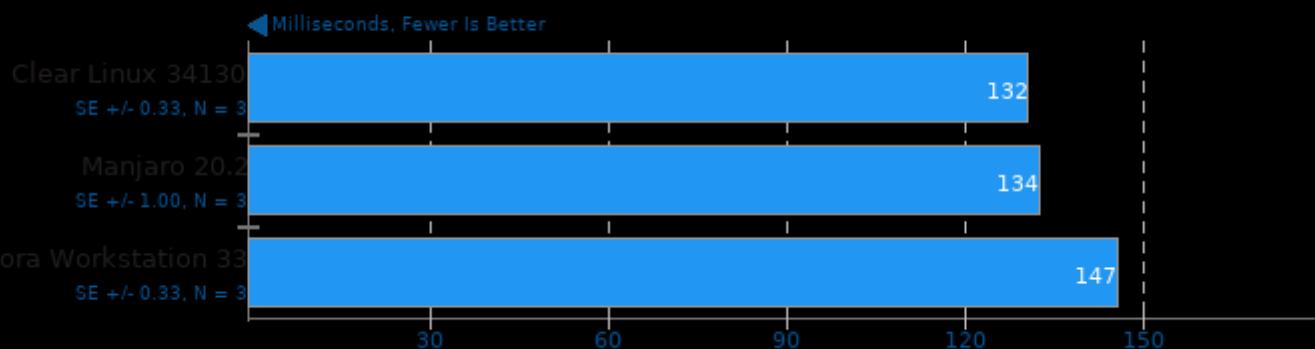
PyPerformance 1.0.0

Benchmark: json.loads



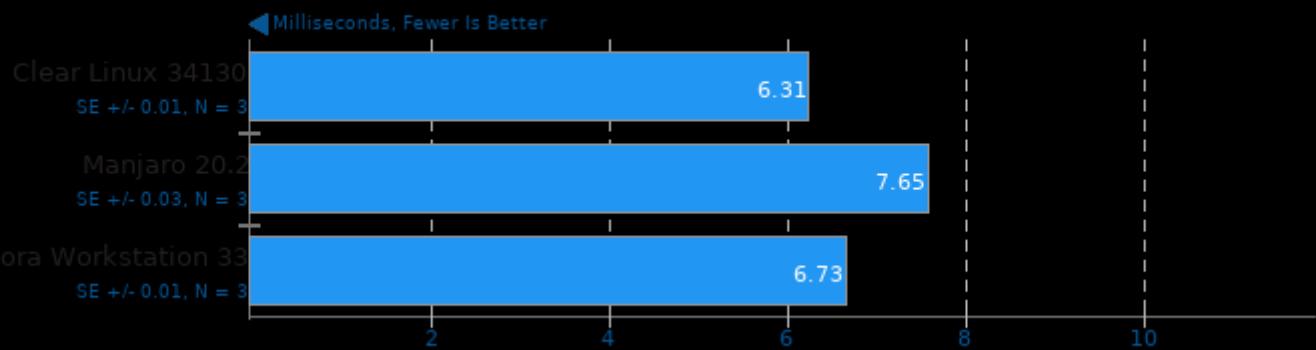
PyPerformance 1.0.0

Benchmark: regex_compile



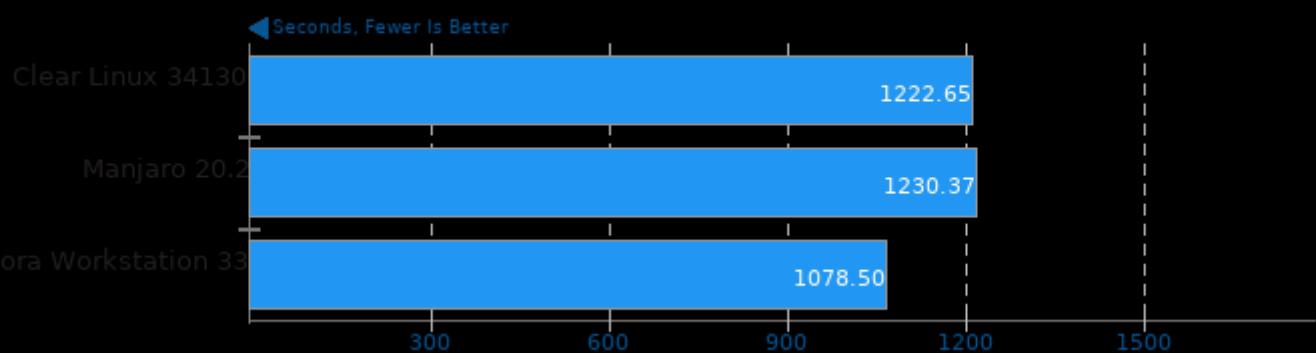
PyPerformance 1.0.0

Benchmark: python_startup



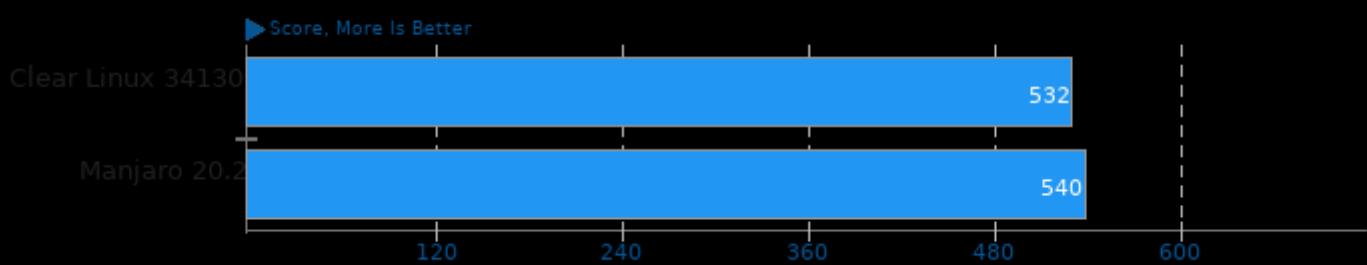
Appleseed 2.0 Beta

Scene: Emily



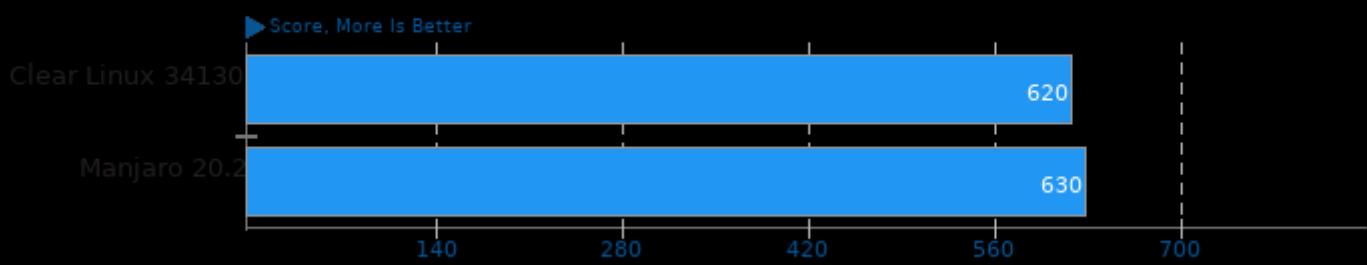
AI Benchmark Alpha 0.1.2

Device Inference Score



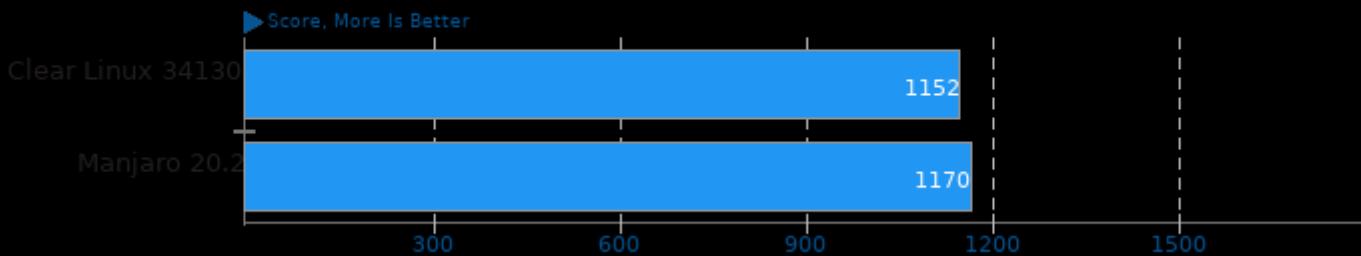
AI Benchmark Alpha 0.1.2

Device Training Score



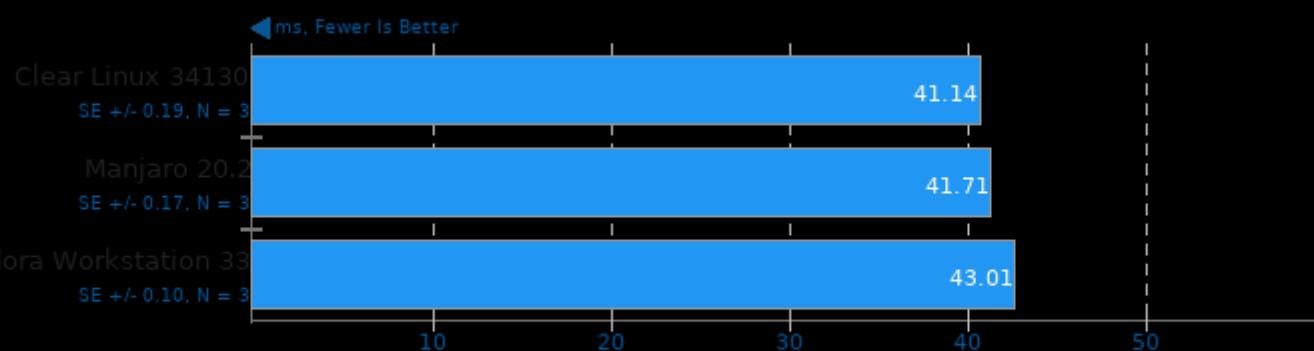
AI Benchmark Alpha 0.1.2

Device AI Score



Selenium

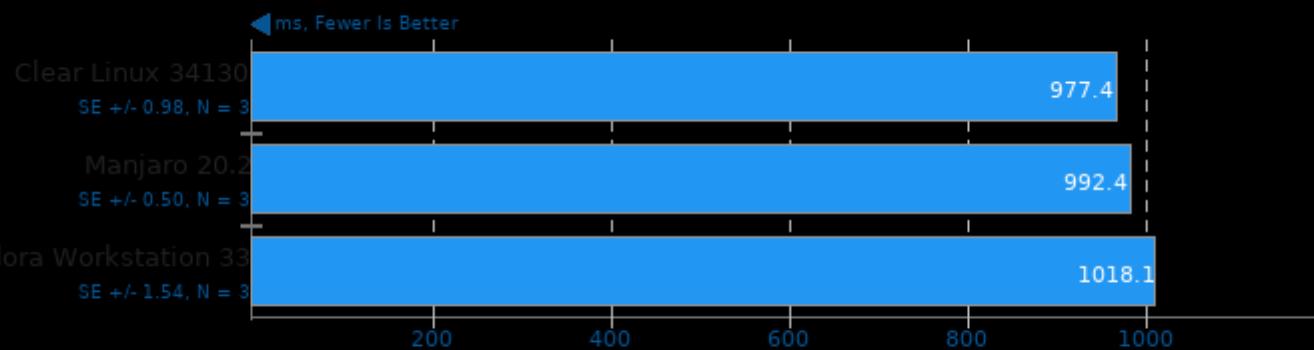
Benchmark: ARES-6 - Browser: Firefox



1. Clear Linux 34130: firefox 84.0.1
2. Manjaro 20.2: firefox 84.0.1
3. Fedora Workstation 33: firefox 84.0

Selenium

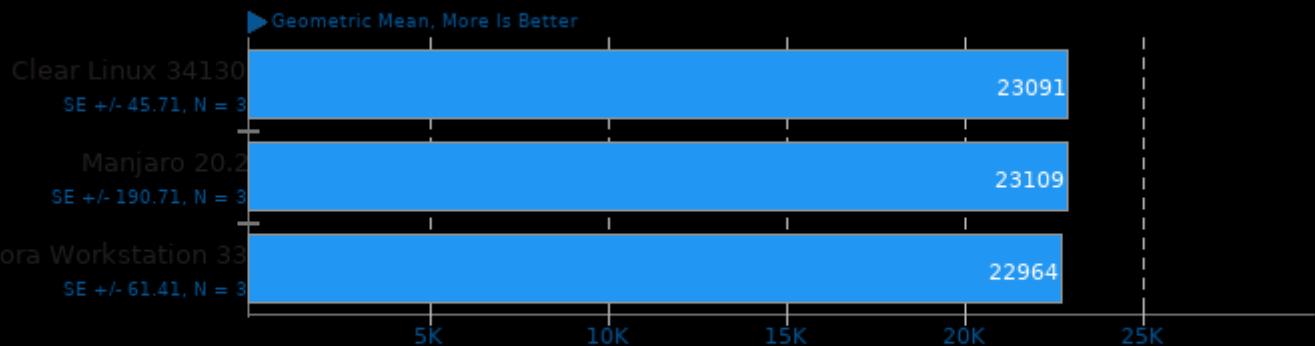
Benchmark: Kraken - Browser: Firefox



1. Clear Linux 34130: firefox 84.0.1
2. Manjaro 20.2: firefox 84.0.1
3. Fedora Workstation 33: firefox 84.0

Selenium

Benchmark: Octane - Browser: Firefox



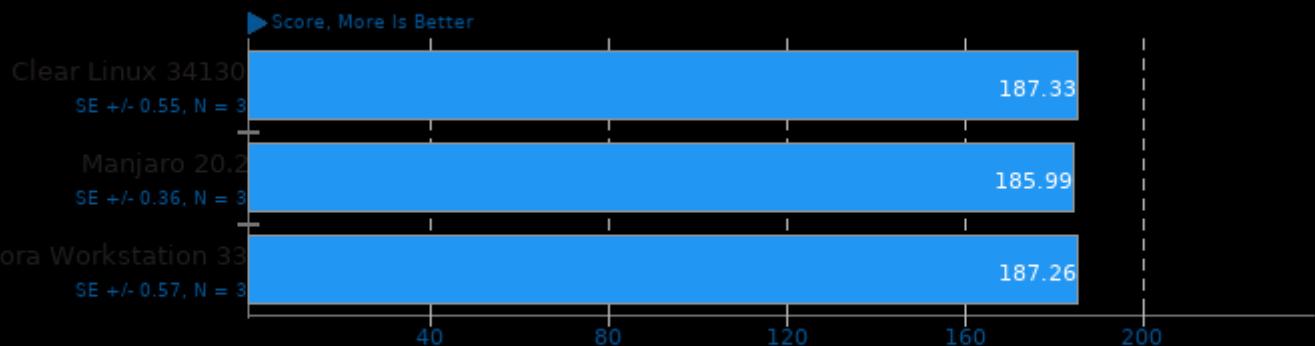
1. Clear Linux 34130; firefox 84.0.1

2. Manjaro 20.2; firefox 84.0.1

3. Fedora Workstation 33; firefox 84.0

Selenium

Benchmark: Jetstream - Browser: Firefox



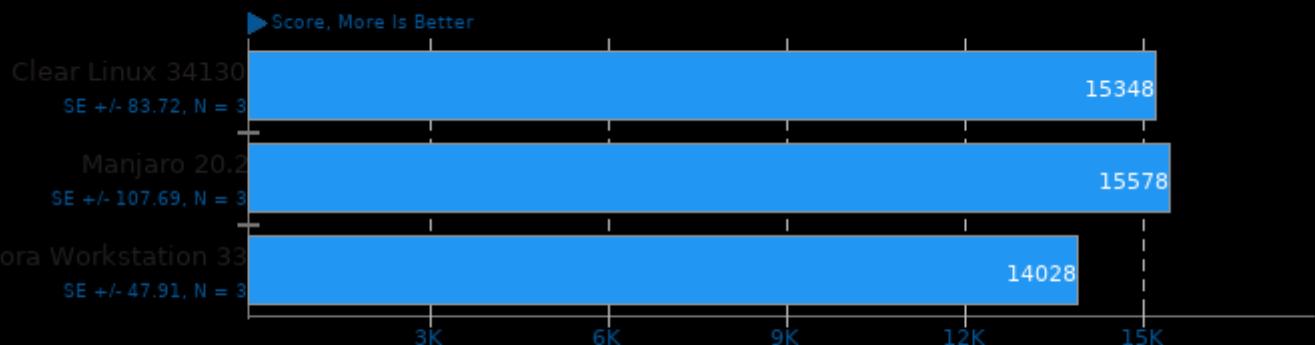
1. Clear Linux 34130; firefox 84.0.1

2. Manjaro 20.2; firefox 84.0.1

3. Fedora Workstation 33; firefox 84.0

Selenium

Benchmark: CanvasMark - Browser: Firefox



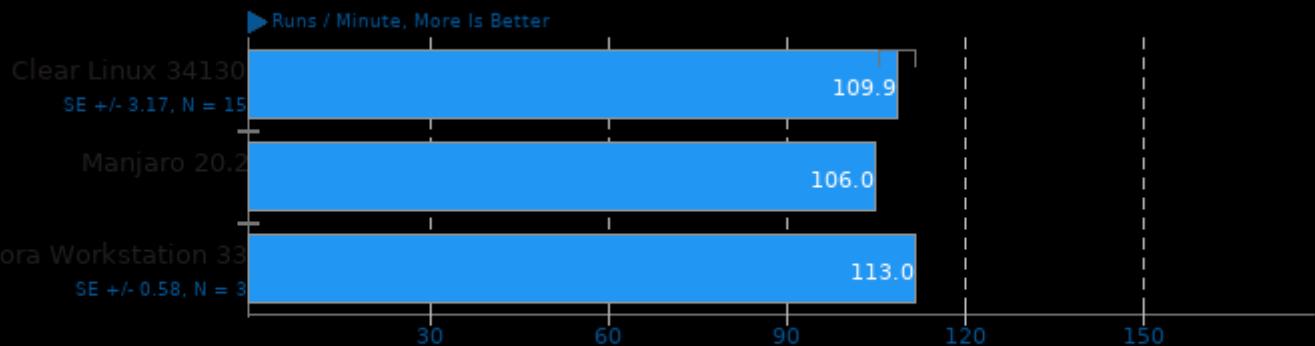
1. Clear Linux 34130; firefox 84.0.1

2. Manjaro 20.2; firefox 84.0.1

3. Fedora Workstation 33; firefox 84.0

Selenium

Benchmark: StyleBench - Browser: Firefox



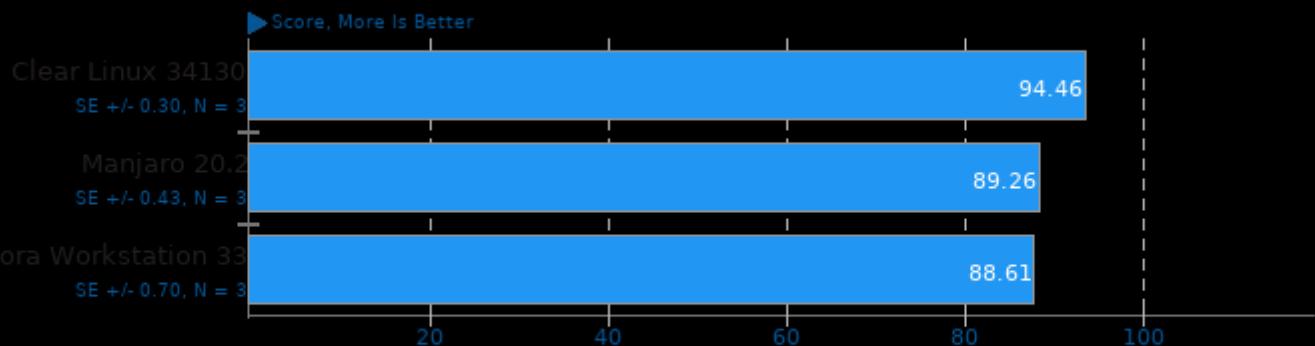
1. Clear Linux 34130: firefox 84.0.1

2. Manjaro 20.2: firefox 84.0.1

3. Fedora Workstation 33: firefox 84.0

Selenium

Benchmark: Jetstream 2 - Browser: Firefox



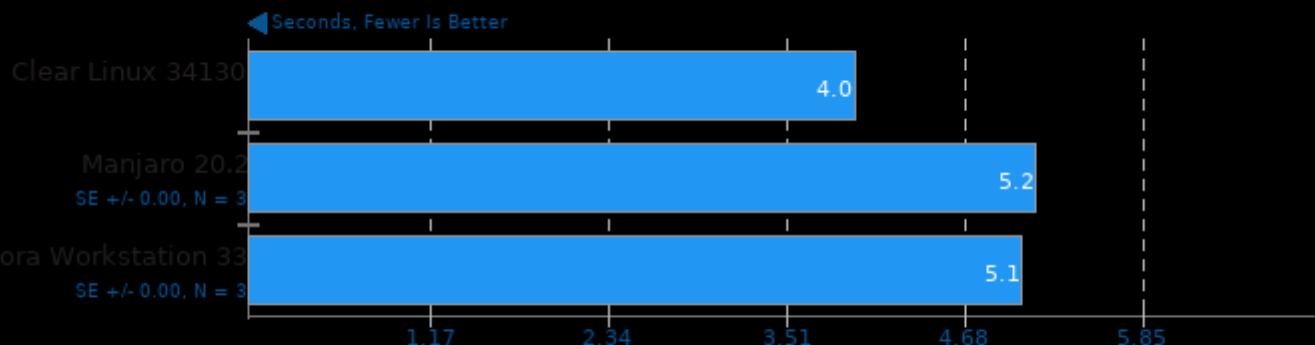
1. Clear Linux 34130: firefox 84.0.1

2. Manjaro 20.2: firefox 84.0.1

3. Fedora Workstation 33: firefox 84.0

Selenium

Benchmark: Maze Solver - Browser: Firefox



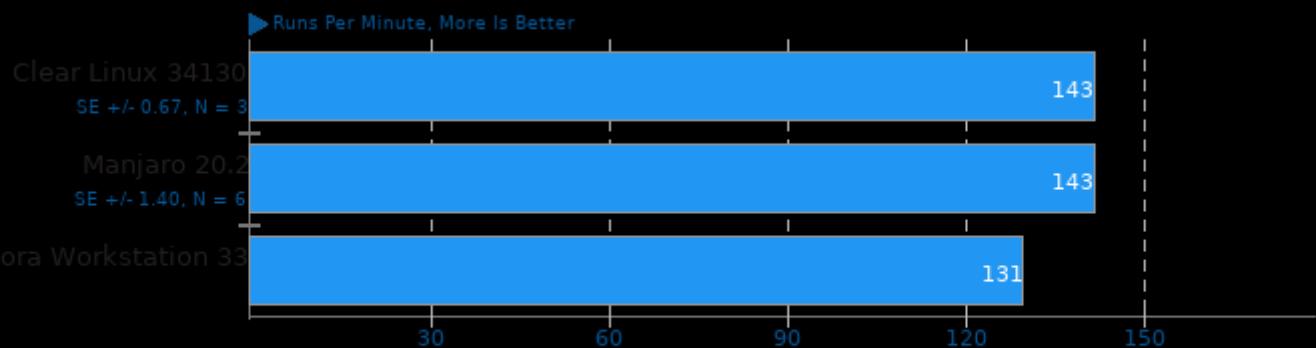
1. Clear Linux 34130: firefox 84.0.1

2. Manjaro 20.2: firefox 84.0.1

3. Fedora Workstation 33: firefox 84.0

Selenium

Benchmark: Speedometer - Browser: Firefox



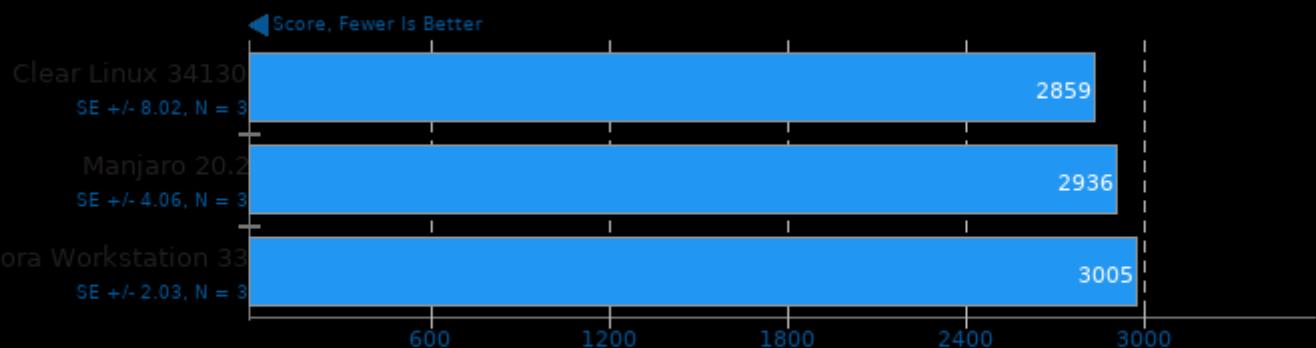
1. Clear Linux 34130: firefox 84.0.1

2. Manjaro 20.2: firefox 84.0.1

3. Fedora Workstation 33: firefox 84.0

Selenium

Benchmark: PSPDFKit WASM - Browser: Firefox



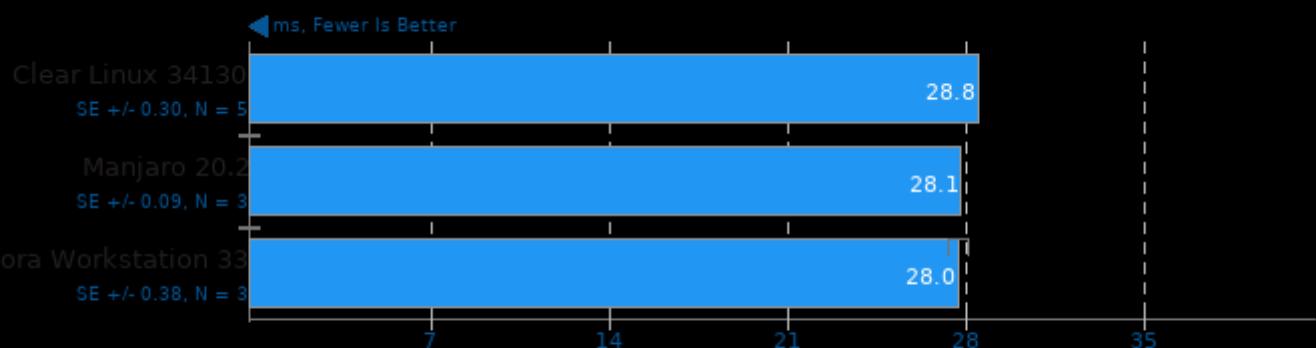
1. Clear Linux 34130: firefox 84.0.1

2. Manjaro 20.2: firefox 84.0.1

3. Fedora Workstation 33: firefox 84.0

Selenium

Benchmark: WASM imageConvolute - Browser: Firefox



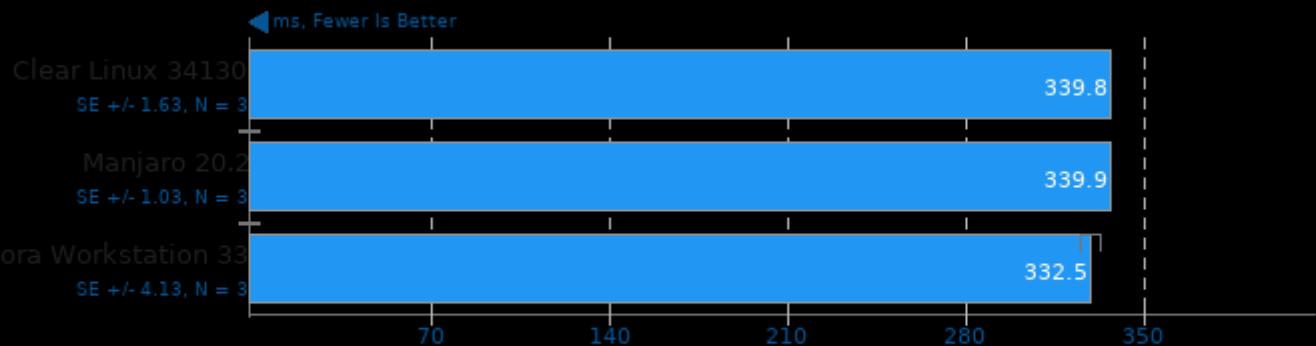
1. Clear Linux 34130: firefox 84.0.1

2. Manjaro 20.2: firefox 84.0.1

3. Fedora Workstation 33: firefox 84.0

Selenium

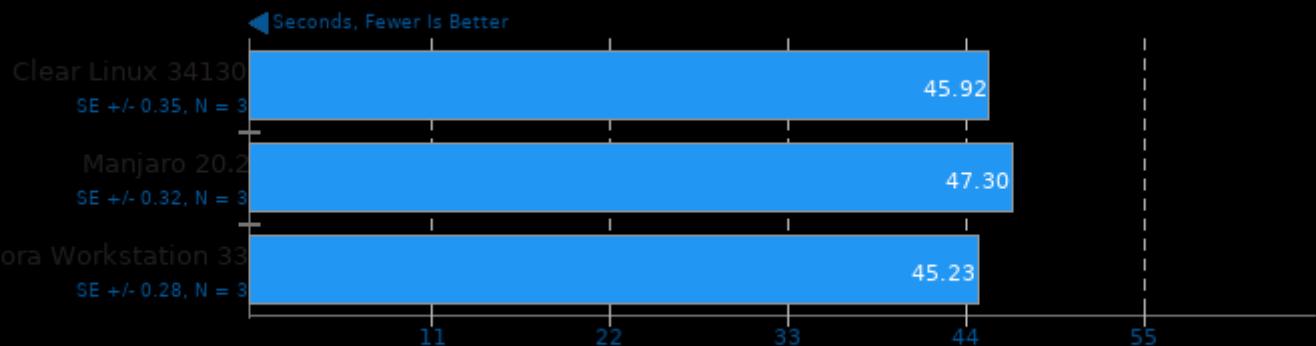
Benchmark: WASM collisionDetection - Browser: Firefox



1. Clear Linux 34130; firefox 84.0.1
2. Manjaro 20.2; firefox 84.0.1
3. Fedora Workstation 33; firefox 84.0

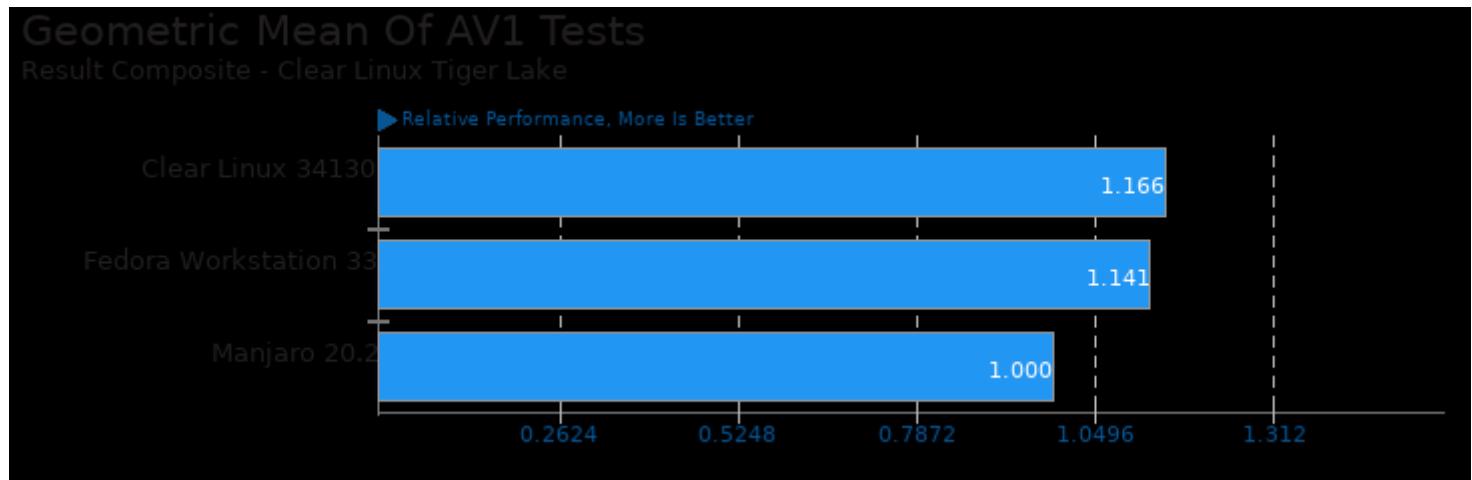
Git

Time To Complete Common Git Commands

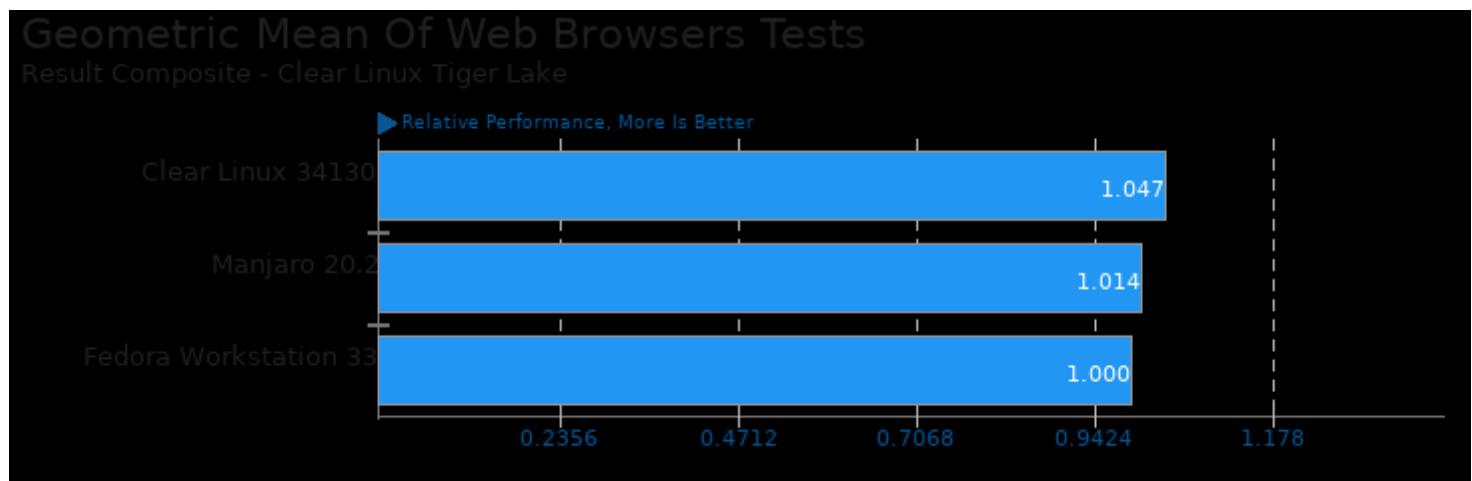


1. git version 2.29.2

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



Geometric mean based upon tests: pts/svt-av1 and pts/avifenc



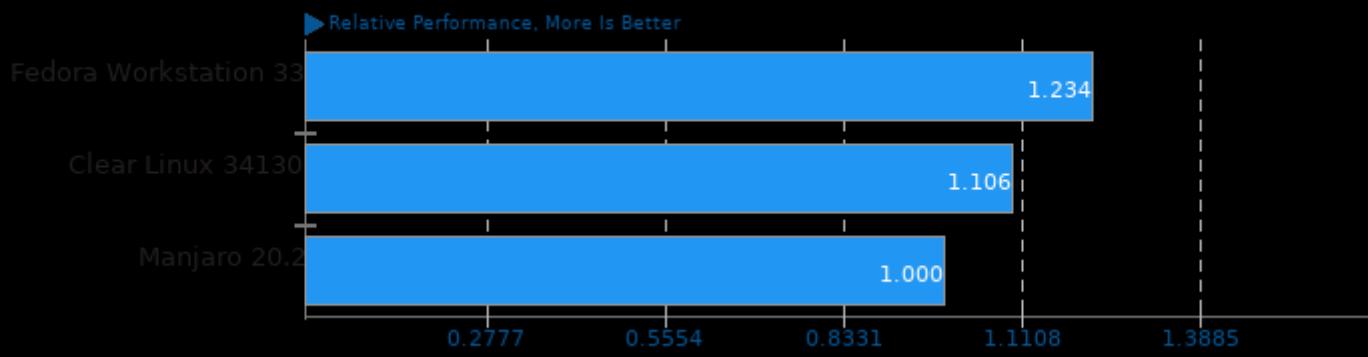
Geometric mean based upon tests: system/selenium



Geometric mean based upon tests: pts/stockfish and pts/asmfish

Geometric Mean Of Timed Code Compilation Tests

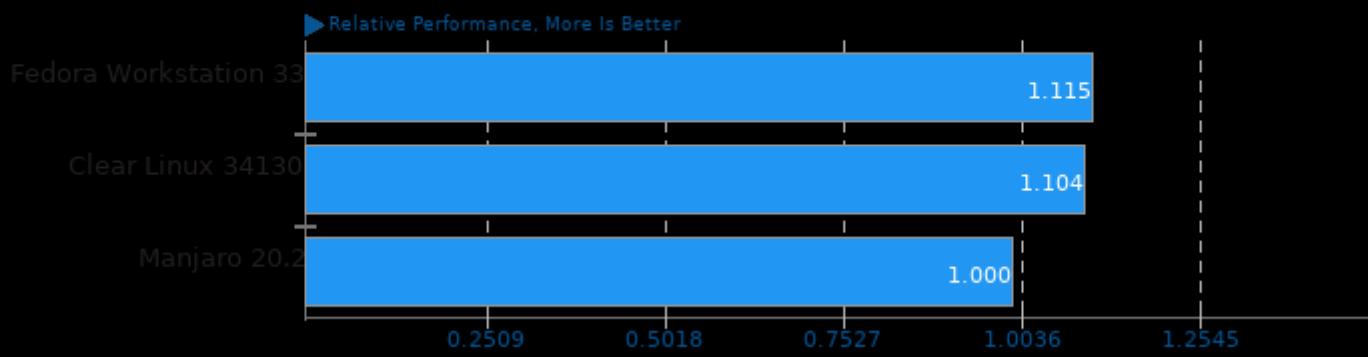
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/build-eigen, pts/build-linux-kernel and pts/build-ffmpeg

Geometric Mean Of C/C++ Compiler Tests

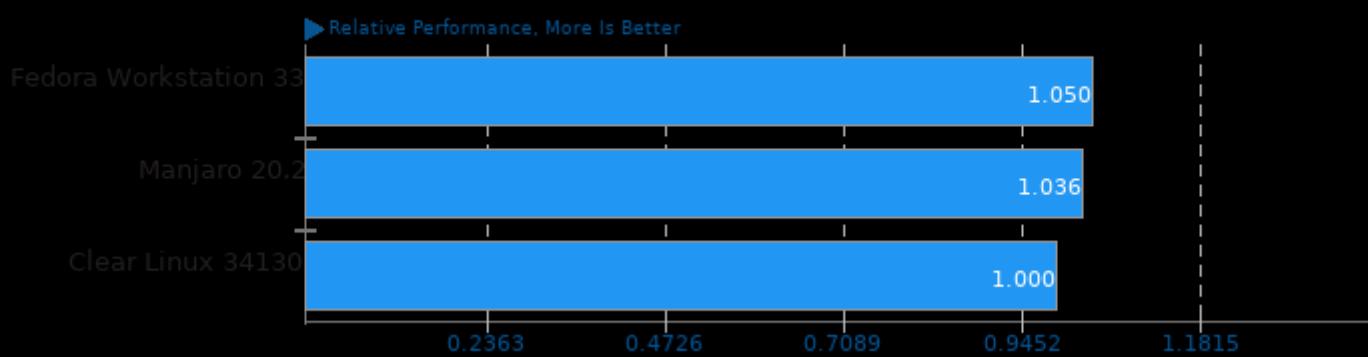
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/vpxenc, pts/stockfish, pts/sqlite-speedtest, pts/mrbayes, pts/x264, pts/x265, pts/clomp, pts/compress-xz, pts/compress-zstd, pts/svt-av1, pts/svt-vp9, pts/gromacs, pts/build-ffmpeg, pts/leveldb and pts/basis

Geometric Mean Of Compression Tests

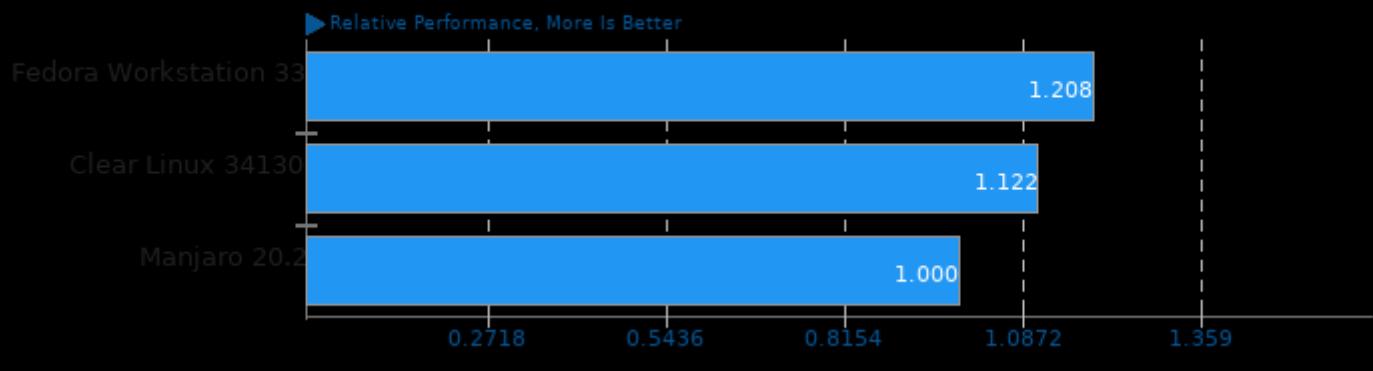
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/compress-zstd, pts/compress-lz4 and pts/compress-xz

Geometric Mean Of CPU Massive Tests

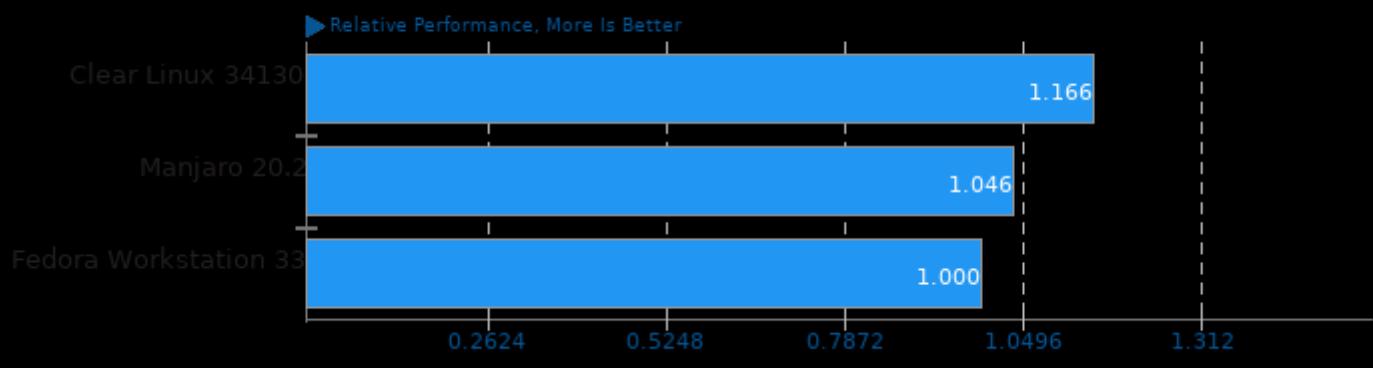
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/asmdisk, pts/build-linux-kernel, pts/compress-xz, pts/compress-zstd, pts/svt-av1, pts/svt-vp9, pts/vpxenc, pts/x264, pts/x265, pts/dolfyn, pts/mrbayes, pts/namd, pts/numpy, pts/stockfish, pts/v-ray, system/darktable, pts/clomp and pts/tjbench

Geometric Mean Of Database Test Suite

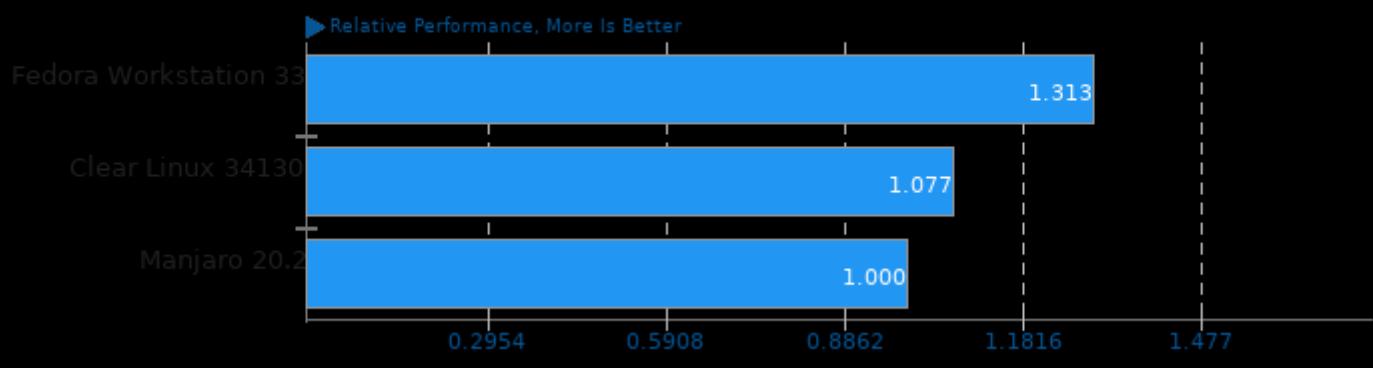
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/sqlite-speedtest and pts/leveldb

Geometric Mean Of Desktop Graphics Tests

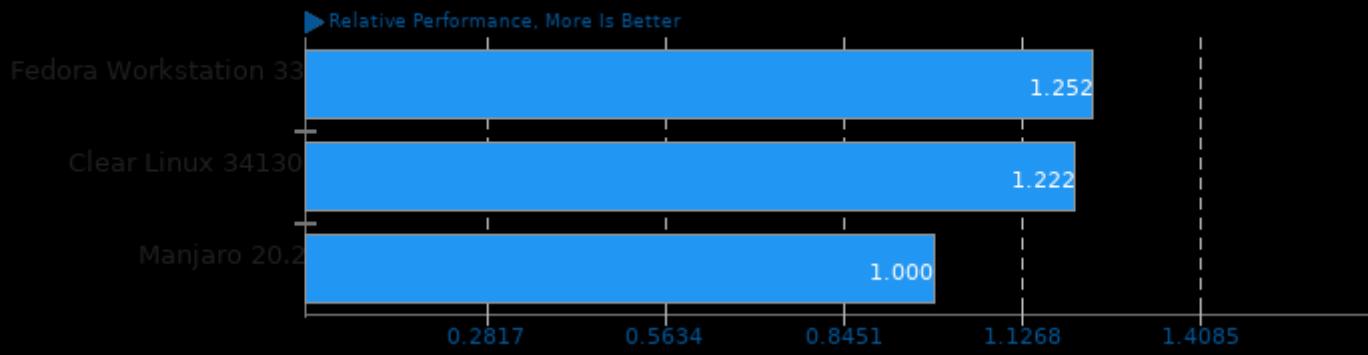
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/xonotic and pts/tesseract

Geometric Mean Of Encoding Tests

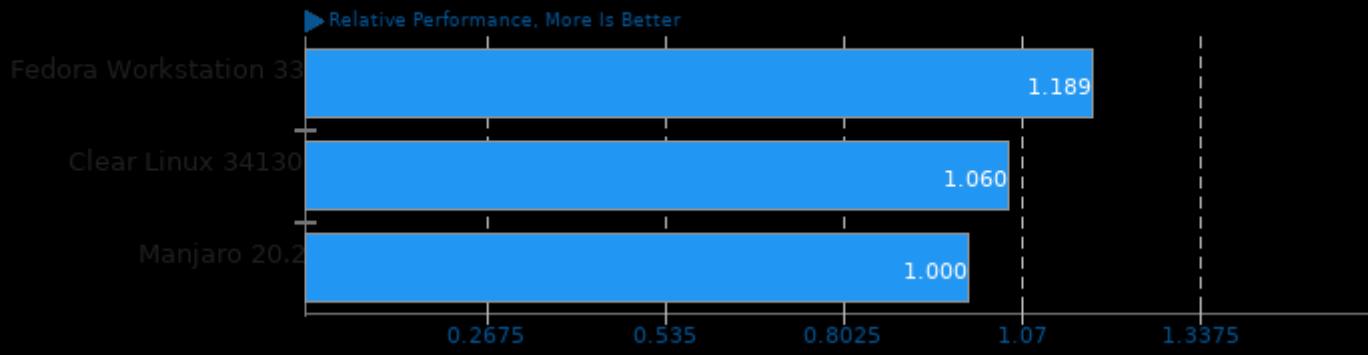
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/svt-vp9, pts/x264, pts/x265, pts/vpxenc, pts/svt-av1 and pts/avifenc

Geometric Mean Of Game Development Tests

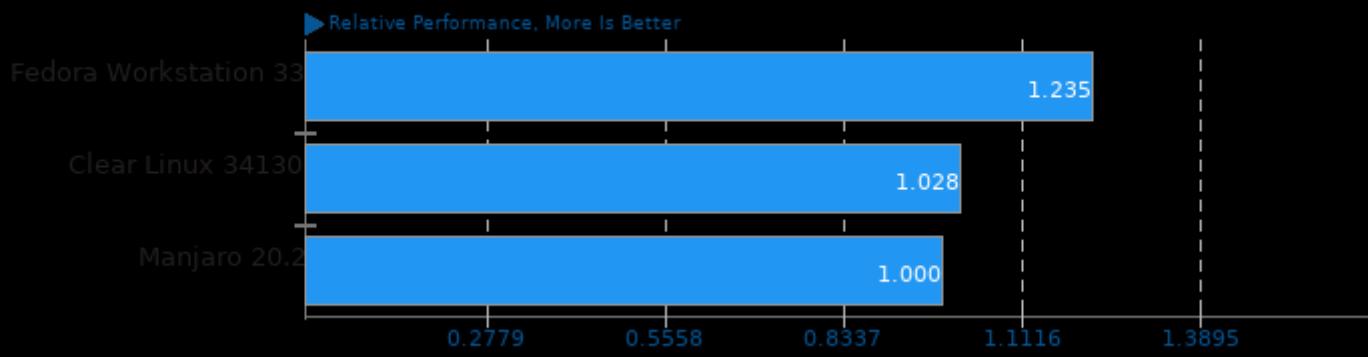
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/basis and pts/astcenc

Geometric Mean Of HPC - High Performance Computing Tests

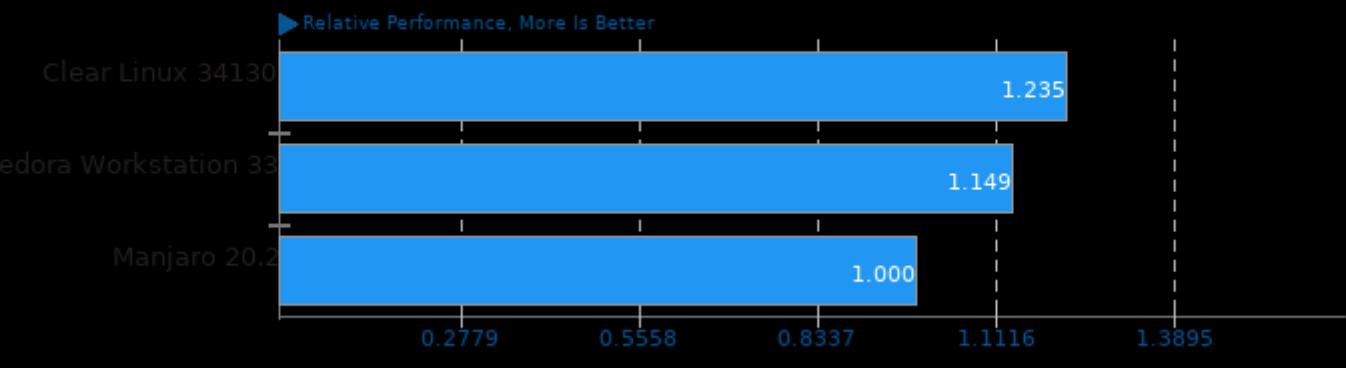
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/namd, pts/gromacs, pts/dolfin, pts/mrbayes, pts/ncnn, pts/tnn, pts(numpy, pts/ai-benchmark, pts/deepspeech and pts/tensorflow-lite

Geometric Mean Of Imaging Tests

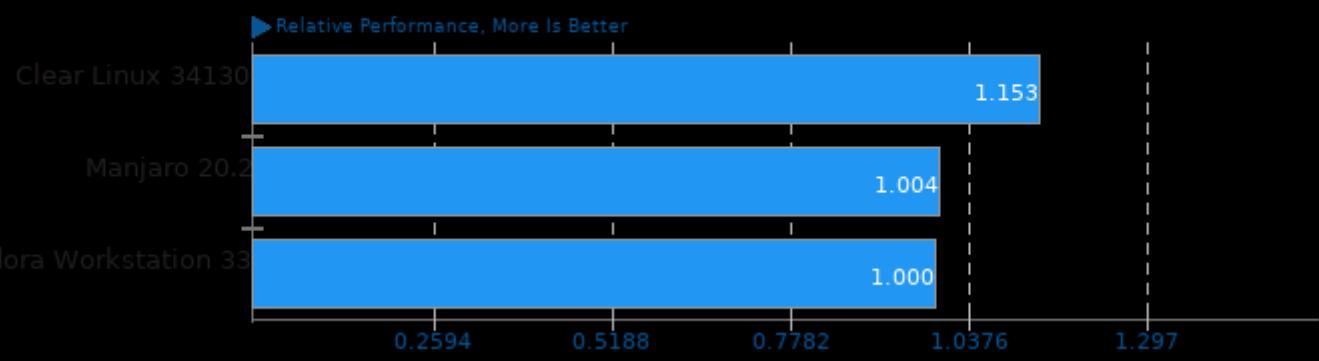
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/libraw, pts/webp, system/rawtherapee, pts/tjbench, system/gimp, system/darktable, system/rsvg and pts/avifenc

Geometric Mean Of Common Kernel Benchmarks Tests

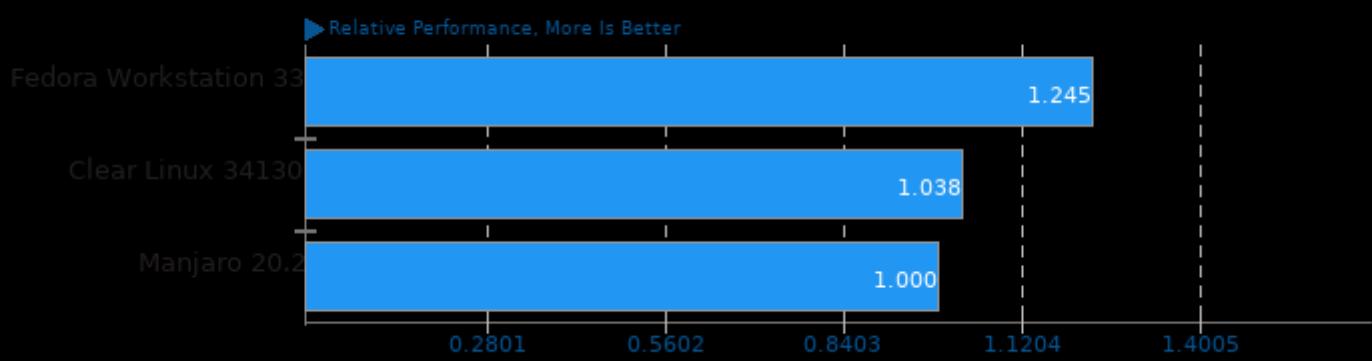
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: system/wireguard, pts/sqlite-speedtest and pts/leveldb

Geometric Mean Of Machine Learning Tests

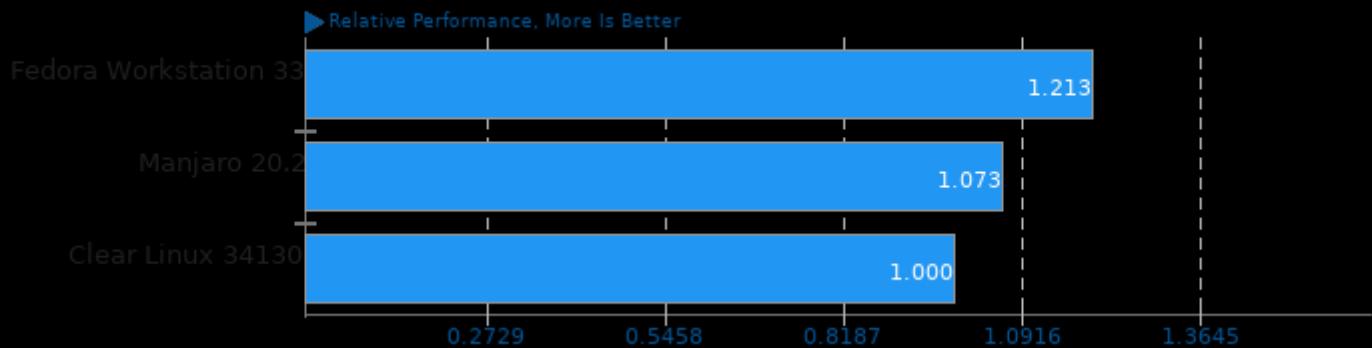
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/ncnn, pts/tnn, pts/numpy, pts/ai-benchmark, pts/deepspeech and pts/tensorflow-lite

Geometric Mean Of Molecular Dynamics Tests

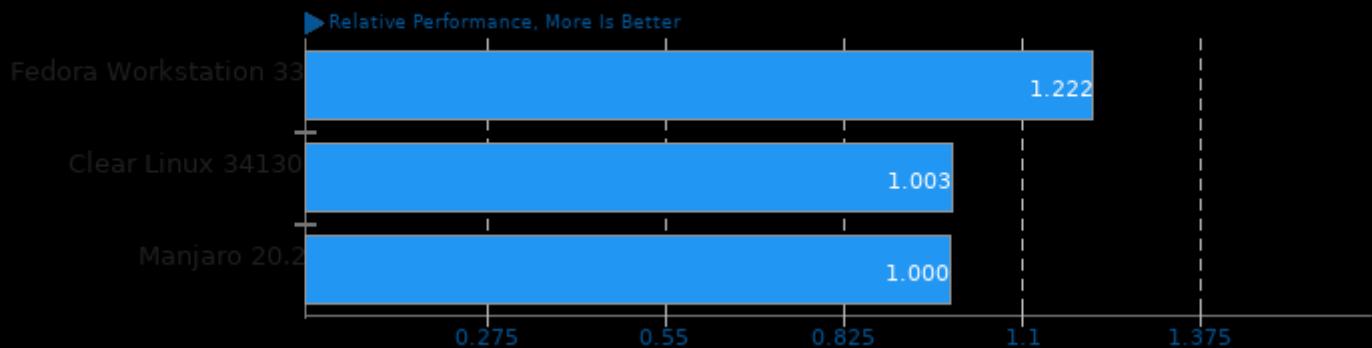
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/namd, pts/gromacs and pts/dolfyn

Geometric Mean Of MPI Benchmarks Tests

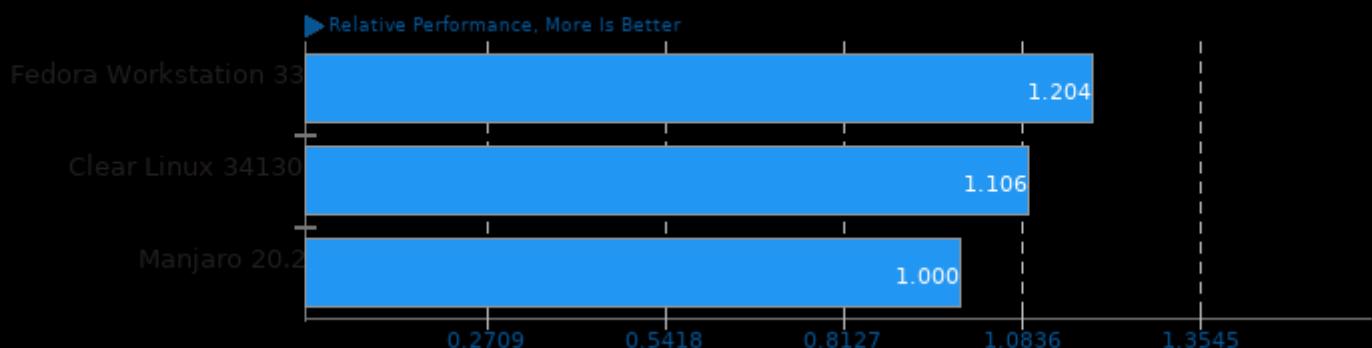
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/gromacs and pts/mrbayes

Geometric Mean Of Multi-Core Tests

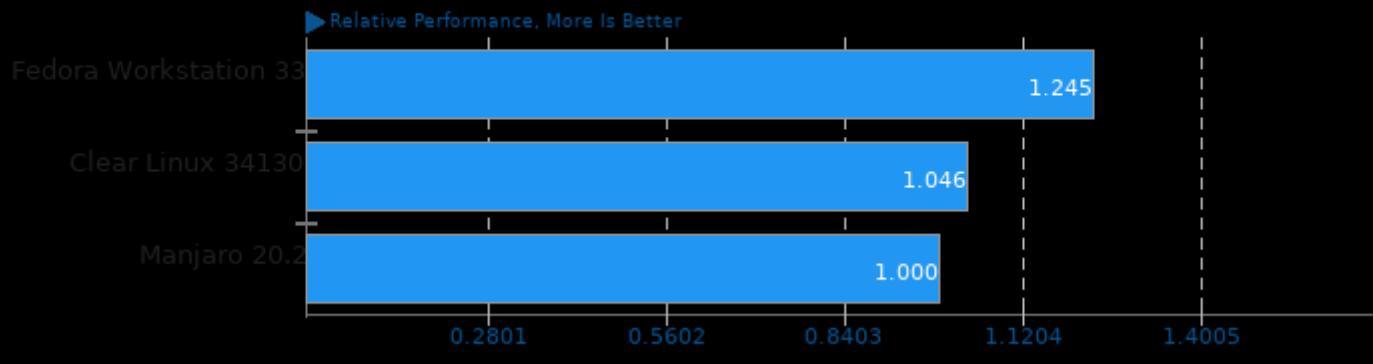
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/stockfish, pts/svt-vp9, pts/x264, pts/x265, pts/vpxenc, pts/svt-av1, pts/avifenc, pts/namd, pts/asmfish, pts/gromacs, pts/compress-zstd, pts/build-eigen, pts/build-linux-kernel, pts/build-ffmpeg, pts/appleseed, pts/v-ray and pts/indigobench

Geometric Mean Of NVIDIA GPU Compute Tests

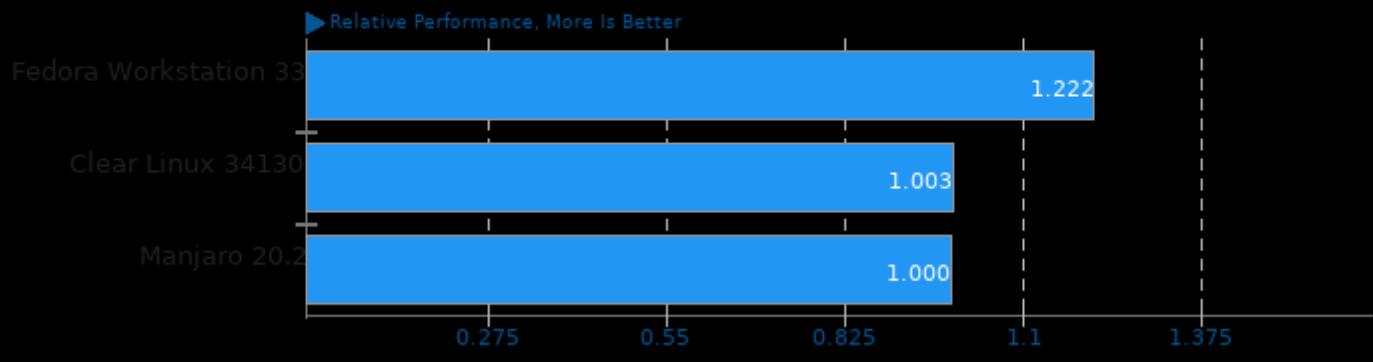
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/gromacs, pts/indigobench, pts/v-ray, pts/ncnn, pts/realsr-ncnn and pts/waifu2x-ncnn

Geometric Mean Of OpenMPI Tests

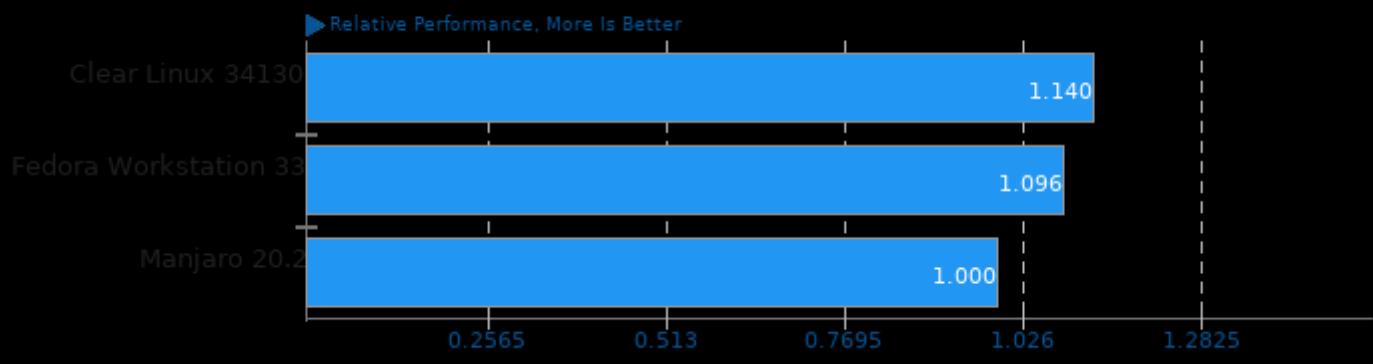
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/mrbayes and pts/gromacs

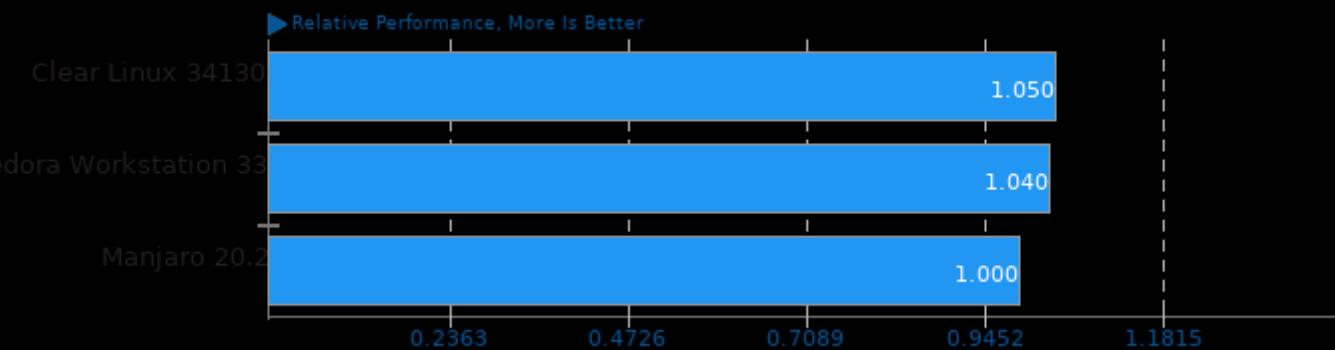
Geometric Mean Of Productivity Tests

Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: system/gimp and system/rsvg

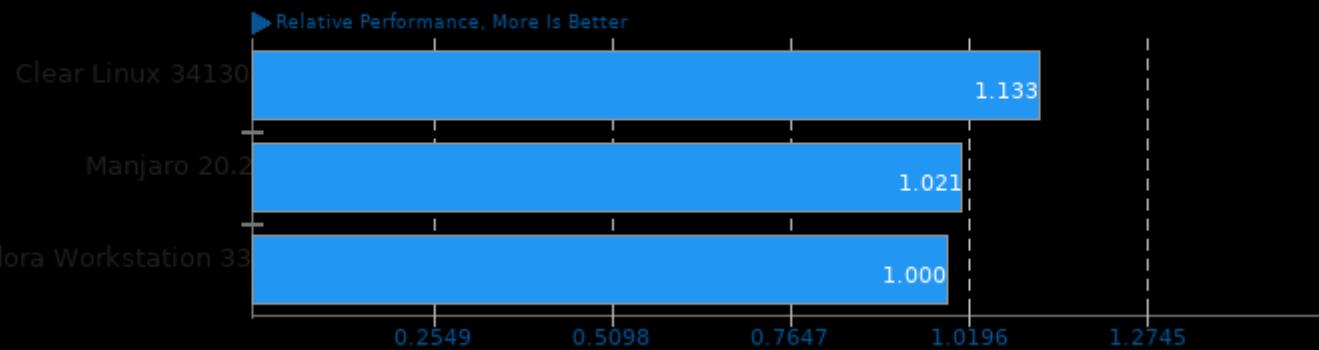
Geometric Mean Of Programmer / Developer System Benchmarks Tests Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/sqlite-speedtest, pts/git, pts/compress-zstd, pts/pyperformance, pts/pybench, pts/build-eigen, pts/build-linux-kernel and pts/build-ffmpeg

Geometric Mean Of Python Tests

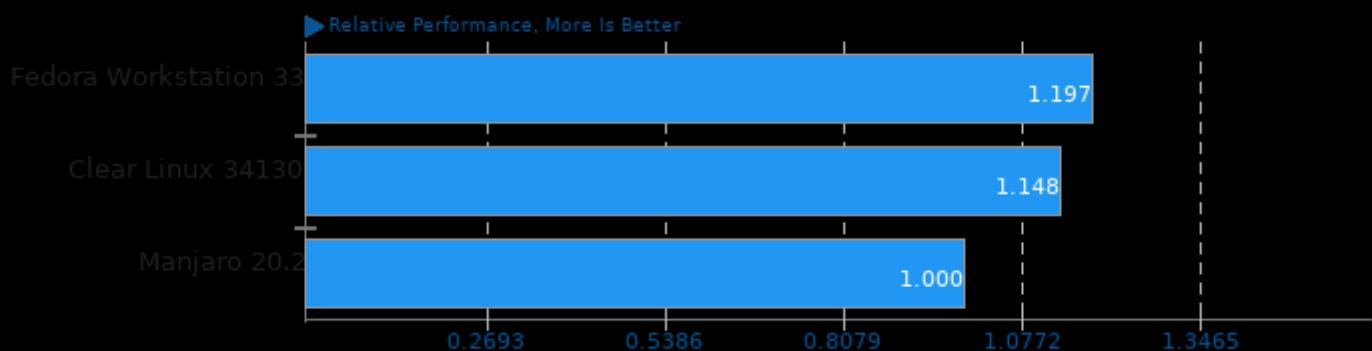
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/pybench, pts/numpy and pts/pyperformance

Geometric Mean Of Renderers Tests

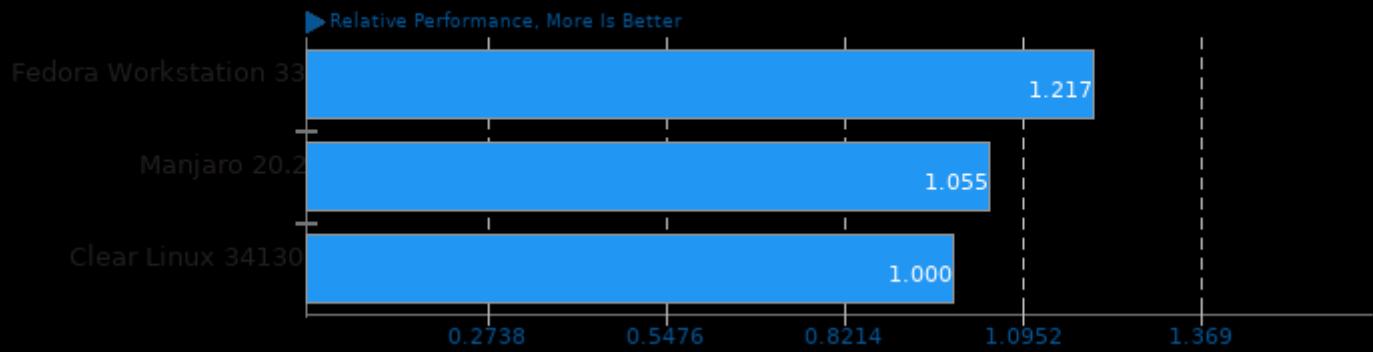
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/appleseed, pts/v-ray and pts/indigobench

Geometric Mean Of Scientific Computing Tests

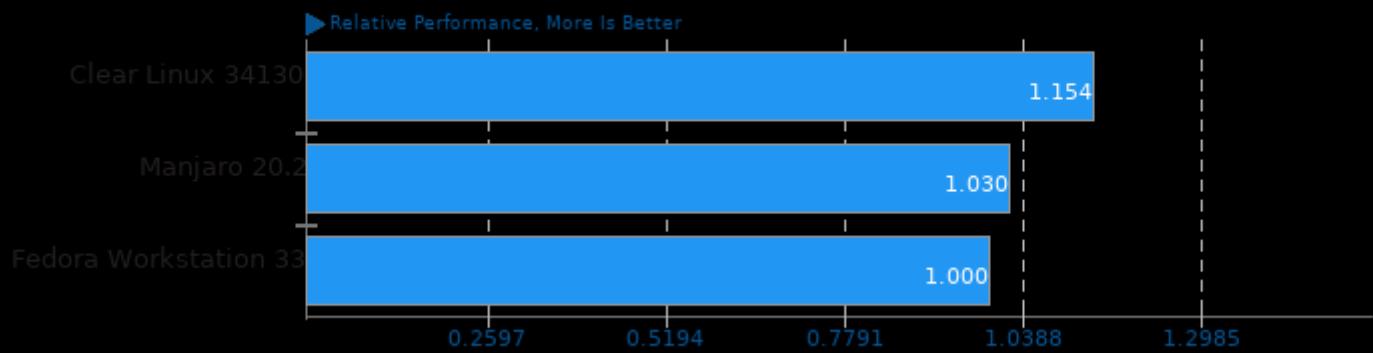
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/namd, pts/gromacs, pts/dolfyn and pts/mrbayes

Geometric Mean Of Server Tests

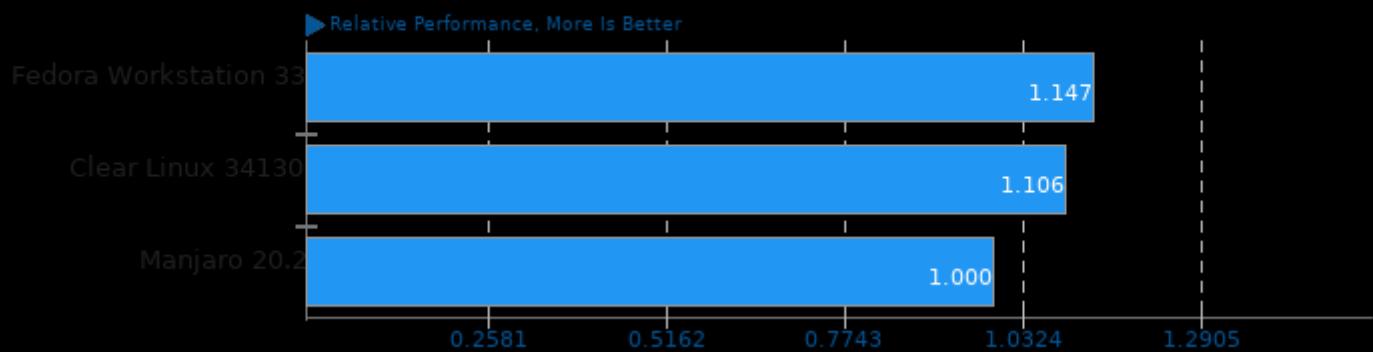
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/perl-benchmark, pts/sqlite-speedtest and pts/leveldb

Geometric Mean Of Server CPU Tests

Result Composite - Clear Linux Tiger Lake

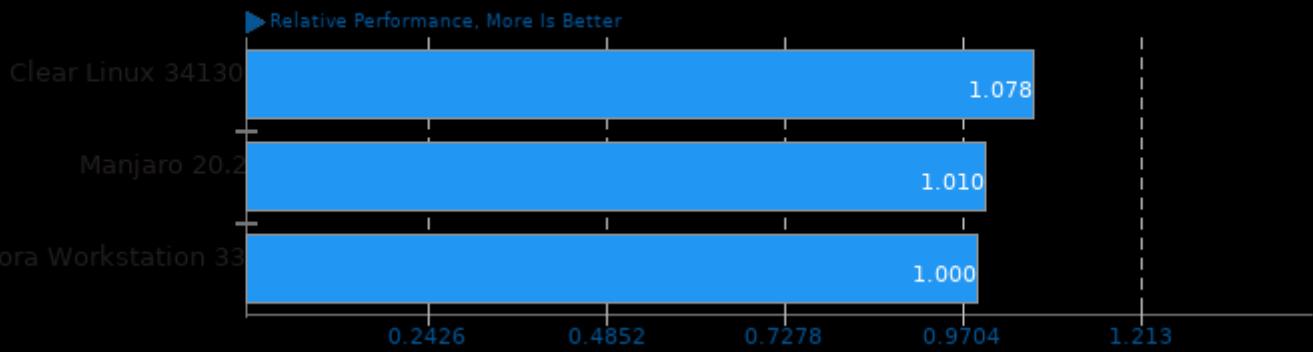


Geometric mean based upon tests: pts/namd, pts/svt-av1, pts/svt-vp9, pts/x264, pts/x265, pts/stockfish, pts/asmfish, pts/build-linux-kernel, pts/compress-zstd, pts/tjbench, system/gimp, pts/appleseed, pts/pybench and pts(numpy

Clear Linux Tiger Lake

Geometric Mean Of Single-Threaded Tests

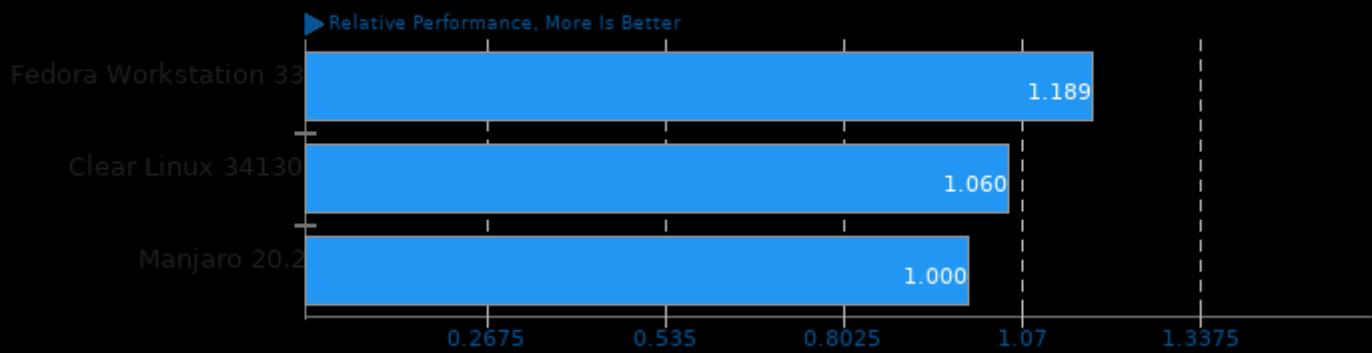
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/numpy, pts/deepspeech, pts/perl-benchmark, pts/tjbench, pts/pybench and pts/git

Geometric Mean Of Texture Compression Tests

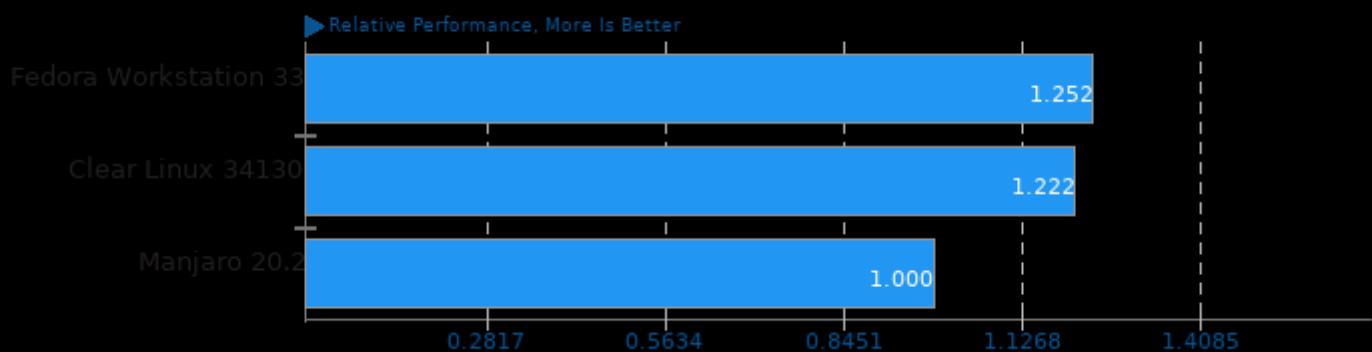
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/basis and pts/astcenc

Geometric Mean Of Video Encoding Tests

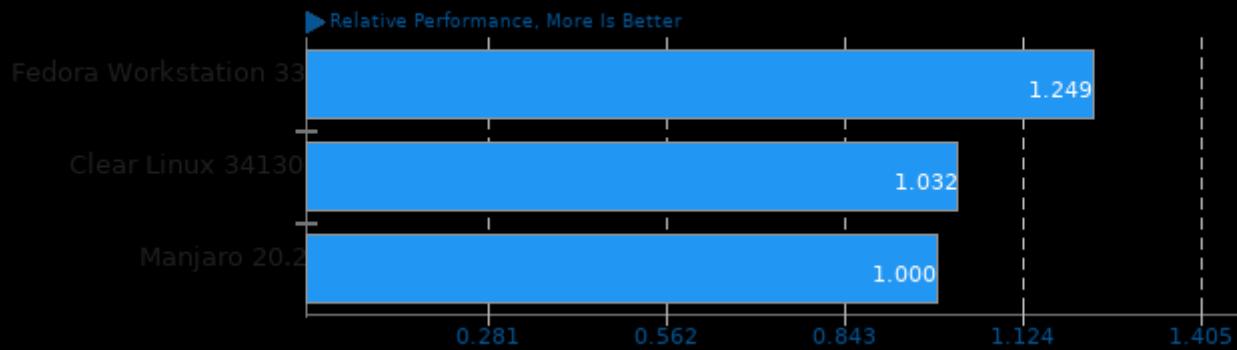
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/svt-vp9, pts/x264, pts/x265, pts/vpxenc, pts/svt-av1 and pts/avifenc

Geometric Mean Of Vulkan Compute Tests

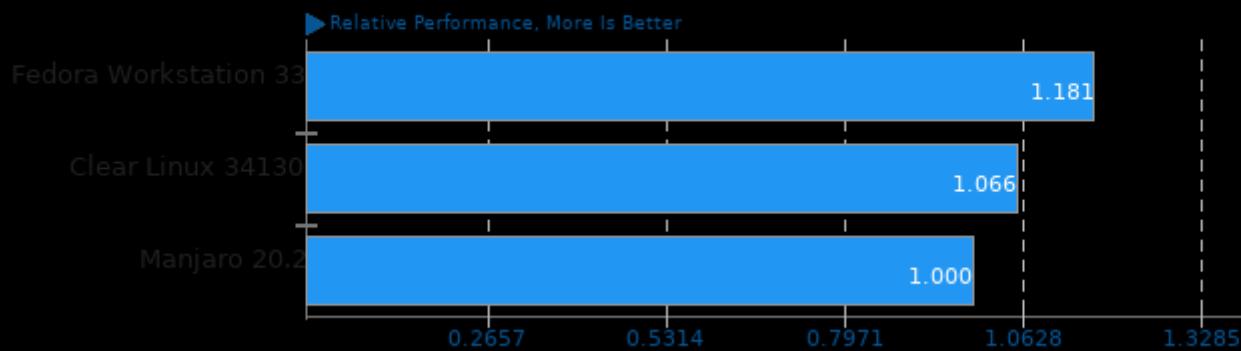
Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/ncnn, pts/realsr-ncnn and pts/waifu2x-ncnn

Geometric Mean Of Common Workstation Benchmarks Tests

Result Composite - Clear Linux Tiger Lake



Geometric mean based upon tests: pts/x265 and pts/git

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 08:20.