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Celeron G6900 Linux Comparison

Intel Celeron G6900 testing with a ASRock B660M-HDV (3.02 BIOS) and Intel ADL-S GT0.5 3GB on Fedora Linux 35 via the Phoronix Test Suite.

Automated Executive Summary

Fedora Workstation 35 had the most wins, coming in first place for 58% of the tests.

Based on the geometric mean of all complete results, the fastest (Fedora Workstation 35) was 1.005x the speed of the slowest (Ubuntu 22.04 26Jan).

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

DDrakeNetwork (Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Zoomed out - Demo: RaiNyMore2 - Total Frame Time) at 38.933x

DDrakeNetwork (Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Zoomed out - Demo: Multeasymap - Total Frame Time) at 13.071x

yquake2 (Renderer: Vulkan - Resolution: 1920 x 1080) at 1.184x

PyBench (Total For Average Test Times) at 1.167x

Selenium (Benchmark: Speedometer - Browser: Firefox) at 1.153x

TNN (Target: CPU - Model: SqueezeNet v1.1) at 1.13x

PyPerformance (Benchmark: pathlib) at 1.124x

Tesseract (*Resolution: 1920 x 1080*) at 1.096x
PyPerformance (*Benchmark: pickle_pure_python*) at 1.09x
GLmark2 (*Resolution: 1920 x 1080*) at 1.089x.

Test Systems:

Ubuntu 22.04 26Jan

Processor: Intel Celeron G6900 @ 4.40GHz (2 Cores), Motherboard: ASRock B660M-HDV (3.02 BIOS), Chipset: Intel Device 7aa7, Memory: 16GB, Disk: 512GB Sabrent, Graphics: Intel ADL-S GT0.5 3GB (1300MHz), Audio: Realtek ALC897, Monitor: DELL S2409W, Network: Intel

OS: Ubuntu 22.04, Kernel: 5.15.0-17-generic (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server 1.20.13 + Wayland, OpenGL: 4.6 Mesa 21.2.2, Vulkan: 1.2.182, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: i915.force_probe=4693 - 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-multilib --enable-nls --enable-objc-gc-auto --enable-offload-targets=nvptx-none=/build/gcc-11-iOLsLC/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-iOLsLC/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: intel_pstate powersave (EPP: balance_performance) - CPU Microcode: 0x18 - ThermalD 2.4.7
Java Notes: OpenJDK Runtime Environment (build 11.0.14+9-Ubuntu-0ubuntu2)
Python Notes: Python 3.9.10
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

Fedora Workstation 35

Processor: Intel Celeron G6900 @ 4.40GHz (2 Cores), Motherboard: ASRock B660M-HDV (3.02 BIOS), Chipset: Intel Device 7aa7, Memory: 16GB, Disk: 512GB Sabrent, Graphics: Intel ADL-S GT0.5 3GB (1300MHz), Audio: Realtek ALC897, Monitor: DELL S2409W, Network: Intel

OS: Fedora Linux 35, Kernel: 5.15.16-200.fc35.x86_64 (x86_64), Desktop: GNOME Shell 41.3, Display Server: X Server 1.20.14 + Wayland, OpenGL: 4.6 Mesa 21.3.4, Compiler: GCC 11.2.1 20211203, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: i915.force_probe=4693 - Transparent Huge Pages: madvise
Environment Notes: DEBUGINFOD_URLS=https://debuginfod.fedoraproject.org/
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-link-serialization=1 --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=i686 --with-build-config=bootstrap-lto --with-gcc-major-version-only --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver
Processor Notes: Scaling Governor: intel_pstate powersave (EPP: balance_performance) - CPU Microcode: 0x18 - ThermalD 2.4.8
Java Notes: OpenJDK Runtime Environment 18.9 (build 11.0.13+8)
Python Notes: Python 3.10.2
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/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbs: Not affected + tsx_async_abort: Not affected

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	Ubuntu 22.04 26Jan	Fedora Workstation 35
DDraceNetwork - 1920 x 1080 - Fullscreen - OpenGL 3.3 - Zoomed out - RaiNyMore2 (FPS)	130.54	133.40
Normalized	97.86%	100%
Standard Deviation	0.1%	0.1%
DDraceNetwork - 1920 x 1080 - Fullscreen - OpenGL 3.3 - Zoomed out - Multeasymap (FPS)	242.04	248.98
Normalized	97.21%	100%
Standard Deviation	0.1%	0%
Tesseract - 1920 x 1080 (FPS)	56.96881	62.41579
Normalized	91.27%	100%
Standard Deviation	0.4%	0.1%
Unvanquished - 1920 x 1080 - High (FPS)	101.2	104.7
Normalized	96.66%	100%
Standard Deviation	0.1%	0.1%
Unvanquished - 1920 x 1080 - Ultra (FPS)	50	51
Normalized	98.04%	100%
Standard Deviation	0%	0%
Unvanquished - 1920 x 1080 - Medium (FPS)	120.6	125.0
Normalized	96.48%	100%
Standard Deviation	0%	0.2%
Warsow - 1920 x 1080 (FPS)	70.2	
Standard Deviation	1.4%	
Xonotic - 1920 x 1080 - Low (FPS)	284.4788332	291.6987450
Normalized	97.52%	100%
Standard Deviation	0.1%	0.3%
Xonotic - 1920 x 1080 - High (FPS)	119.2372126	123.3027820
Normalized	96.7%	100%
Standard Deviation	0.1%	0.1%
Xonotic - 1920 x 1080 - Ultra (FPS)	78.9645064	81.1439968
Normalized	97.31%	100%
Standard Deviation	0.1%	0.2%
Xonotic - 1920 x 1080 - Ultimate (FPS)	51.6591203	52.5156587
Normalized	98.37%	100%
Standard Deviation	0%	0%
yquake2 - Vulkan - 1920 x 1080 (FPS)	788.8	934.0
Normalized	84.45%	100%
Standard Deviation	1.2%	0.7%
yquake2 - OpenGL 3.x - 1920 x 1080 (FPS)	210.5	225.8
Normalized	93.22%	100%
Standard Deviation	0.2%	0.3%
GLmark2 - 1920 x 1080 (Score)	538	586
Normalized	91.81%	100%
ParaView - Many Spheres - 1920 x 1080 (Frames / Sec)	3.85	3.92
Normalized	98.21%	100%
Standard Deviation	0%	0%
ParaView - Many Spheres - 1920 x 1080 (MiPolys /	385.633	392.645
Normalized	98.21%	100%
Standard Deviation	0%	0%
ParaView - Wavelet Volume - 1920 x 1080 (Frames /	28.65	29.35
Normalized	97.61%	100%
Standard Deviation	0.1%	0.1%

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ParaView - Wavelet Volume - 1920 x 1080 (MiVoxels / Sec)	458.434	469.701
Normalized	97.6%	100%
Standard Deviation	0.1%	0.1%
ParaView - Wavelet Contour - 1920 x 1080 (Frames / Sec)	26.85	26.29
Normalized	100%	97.91%
Standard Deviation	0%	0%
ParaView - Wavelet Contour - 1920 x 1080 (MiPolys / Sec)	279.809	273.934
Normalized	100%	97.9%
Standard Deviation	0%	0%
GpuTest - GiMark - 1920 x 1080 - Fullscreen (Points)	1174	1176
Normalized	99.83%	100%
Standard Deviation	0%	0%
GpuTest - Plot3D - 1920 x 1080 - Fullscreen (Points)	11980	11986
Normalized	99.95%	100%
Standard Deviation	0.1%	0%
GpuTest - Furmark - 1920 x 1080 - Fullscreen (Points)	654	649
Normalized	100%	99.24%
Standard Deviation	0.1%	0%
GpuTest - TessMark - 1920 x 1080 - Fullscreen	2466	2464
Normalized	100%	99.92%
Standard Deviation	0%	0%
GpuTest - Triangle - 1920 x 1080 - Fullscreen (Points)	85161	86466
Normalized	98.49%	100%
Standard Deviation	0.1%	0.1%
GpuTest - Pixmark Piano - 1920 x 1080 - Fullscreen (Points)	125	126
Normalized	99.21%	100%
Standard Deviation	0%	0%
GpuTest - Pixmark Volplosion - 1920 x 1080 - Fullscreen (Points)	343	346
Normalized	99.13%	100%
Standard Deviation	0%	0%
QuantLib (MFLOPS)	3055	3175
Normalized	96.22%	100%
Standard Deviation	2.5%	0.2%
LeelaChessZero - BLAS (Nodes/s)	675	
Standard Deviation	1.5%	
LeelaChessZero - Eigen (Nodes/s)	647	
Standard Deviation	2.4%	
BLAKE2 (Cycles/Byte)	5.92	5.92
Standard Deviation	0.2%	0%
WebP Image Encode - Default (Encode Time - sec)	1.590	1.574
Normalized	98.99%	100%
Standard Deviation	0.1%	0.1%
WebP Image Encode - Quality 100 (Encode Time - sec)	2.473	2.422
Normalized	97.94%	100%
Standard Deviation	0.1%	0.1%
WebP Image Encode - Q.1.H.C (Encode Time - sec)	7.992	7.912
Normalized	99%	100%
Standard Deviation	0%	0%
simdjson - Kostya (GB/s)	3.31	3.32

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	Normalized	99.7%	100%
	Standard Deviation	0%	0%
simdjson - LargeRand (GB/s)	1.14	1.15	
	Normalized	99.13%	100%
	Standard Deviation	0.5%	0%
simdjson - PartialTweets (GB/s)	4.16	4.35	
	Normalized	95.63%	100%
	Standard Deviation	0.2%	0%
simdjson - DistinctUserID (GB/s)	4.84	5.00	
	Normalized	96.8%	100%
	Standard Deviation	0.1%	0.1%
DaCapo Benchmark - H2 (msec)	2343	2391	
	Normalized	100%	97.99%
	Standard Deviation	7%	6.3%
DaCapo Benchmark - Jython (msec)	3530	3619	
	Normalized	100%	97.54%
	Standard Deviation	3.3%	1%
DaCapo Benchmark - Tradesoap (msec)	12110	12984	
	Normalized	100%	93.27%
	Standard Deviation	2%	2.3%
DaCapo Benchmark - Tradebeans (msec)	3276	3317	
	Normalized	100%	98.76%
	Standard Deviation	2.8%	1.5%
LZ4 Compression - 1 - Compression Speed (MB/s)	10665	10680	
	Normalized	99.86%	100%
	Standard Deviation	0.3%	0.1%
LZ4 Compression - 1 - D.S (MB/s)	12004	12025	
	Normalized	99.82%	100%
	Standard Deviation	0%	0%
LZ4 Compression - 3 - Compression Speed (MB/s)	50.41	50.79	
	Normalized	99.25%	100%
	Standard Deviation	0.1%	0%
LZ4 Compression - 3 - D.S (MB/s)	11340	11362	
	Normalized	99.81%	100%
	Standard Deviation	0%	0%
LZ4 Compression - 9 - Compression Speed (MB/s)	49.26	49.66	
	Normalized	99.19%	100%
	Standard Deviation	0%	0%
LZ4 Compression - 9 - D.S (MB/s)	11358	11383	
	Normalized	99.78%	100%
	Standard Deviation	0%	0%
Zstd Compression - 19 - Compression Speed (MB/s)	10.9	11.1	
	Normalized	98.2%	100%
	Standard Deviation	0.5%	0.5%
Zstd Compression - 19 - D.S (MB/s)	3133	3128	
	Normalized	100%	99.83%
	Standard Deviation	0.1%	0.4%
Zstd Compression - 19, Long Mode - Compression Speed (MB/s)	9.00	9.12	
	Normalized	98.68%	100%
	Standard Deviation	0.1%	0.1%
Zstd Compression - 19, Long Mode - D.S (MB/s)	3264	3265	
	Normalized	99.98%	100%
	Standard Deviation	0%	0%
Zstd Compression - 19 - Compression Speed (MB/s)	10.32	10.9	

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	Normalized	94.68%	100%
	Standard Deviation	0.2%	0%
Zstd Compression - 19 - D.S (MB/s)	2988	3114	
	Normalized	95.96%	100%
	Standard Deviation	0.1%	0.1%
Zstd Compression - 19, Long Mode - Compression Speed (MB/s)	8.35	8.92	
	Normalized	93.61%	100%
	Standard Deviation	0.2%	0.1%
Zstd Compression - 19, Long Mode - D.S (MB/s)	3077	3244	
	Normalized	94.87%	100%
	Standard Deviation	0%	0.2%
srsRAN - OFDM_Test (Samples / Second)	112826667	126233333	
	Normalized	89.38%	100%
	Standard Deviation	16.8%	0.9%
srsRAN - 4.P.1.P.M.6.Q (eNb Mb/s)	353.8	350.2	
	Normalized	100%	98.98%
	Standard Deviation	1.7%	0.9%
srsRAN - 4.P.1.P.M.6.Q (UE Mb/s)	101.5	102.1	
	Normalized	99.41%	100%
	Standard Deviation	0.6%	0.3%
srsRAN - 4.P.1.P.S.6.Q (eNb Mb/s)	364.6	368.8	
	Normalized	98.86%	100%
	Standard Deviation	1.4%	0.3%
srsRAN - 4.P.1.P.S.6.Q (UE Mb/s)	132.0	131.8	
	Normalized	100%	99.85%
	Standard Deviation	0.7%	0.2%
srsRAN - 4.P.1.P.M.2.Q (eNb Mb/s)	381.1	385.7	
	Normalized	98.81%	100%
	Standard Deviation	0.7%	1.1%
srsRAN - 4.P.1.P.M.2.Q (UE Mb/s)	115.3	114.6	
	Normalized	100%	99.39%
	Standard Deviation	0.2%	0.1%
srsRAN - 4.P.1.P.S.2.Q (eNb Mb/s)	398.2	407.3	
	Normalized	97.77%	100%
	Standard Deviation	0.7%	0.4%
srsRAN - 4.P.1.P.S.2.Q (UE Mb/s)	143.7	144.7	
	Normalized	99.31%	100%
	Standard Deviation	1.2%	0%
srsRAN - 5.P.T.5.P.S.6.Q (eNb Mb/s)	128.7	129.3	
	Normalized	99.54%	100%
	Standard Deviation	0.6%	0.2%
srsRAN - 5.P.T.5.P.S.6.Q (UE Mb/s)	59.1	59.7	
	Normalized	98.99%	100%
	Standard Deviation	0.8%	0.3%
LibRaw - P.P.B (Mpix/sec)	19.64	19.70	
	Normalized	99.7%	100%
	Standard Deviation	0.1%	0.1%
Crafty - Elapsed Time (Nodes/s)	8175039	8635774	
	Normalized	94.66%	100%
	Standard Deviation	0.2%	0.1%
TSCP - A.C.P (Nodes/s)	1336845	1314505	
	Normalized	100%	98.33%
	Standard Deviation	0.2%	0%
LuxCoreRender - DLSC - CPU (M samples/sec)	0.34	0.34	

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	Standard Deviation	0%	0%
LuxCoreRender - Danish Mood - CPU (M samples/sec)	0.03	0.03	
	Standard Deviation	29.2%	23.1%
LuxCoreRender - Orange Juice - CPU (M samples/sec)	0.53	0.53	
	Standard Deviation	0%	0%
Embree - Pathtracer - Crown (FPS)	1.6707	1.6606	
	Normalized	100%	99.4%
	Standard Deviation	0.2%	0.7%
Embree - Pathtracer ISPC - Crown (FPS)	1.8246	1.8181	
	Normalized	100%	99.64%
	Standard Deviation	0.3%	0.2%
Embree - Pathtracer - Asian Dragon (FPS)	2.0601	2.0481	
	Normalized	100%	99.42%
	Standard Deviation	0.3%	0%
Embree - Pathtracer ISPC - Asian Dragon (FPS)	2.369	2.3715	
	Normalized	99.89%	100%
	Standard Deviation	0.2%	0.6%
Kvazaar - Bosphorus 4K - Very Fast (FPS)	3.55	3.50	
	Normalized	100%	98.59%
	Standard Deviation	0.3%	1.4%
Kvazaar - Bosphorus 4K - Ultra Fast (FPS)	6.29	6.28	
	Normalized	100%	99.84%
	Standard Deviation	0.2%	0.1%
Kvazaar - Bosphorus 1080p - Very Fast (FPS)	16.53	16.44	
	Normalized	100%	99.46%
	Standard Deviation	1%	2%
Kvazaar - Bosphorus 1080p - Ultra Fast (FPS)	28.48	28.41	
	Normalized	100%	99.75%
	Standard Deviation	0.1%	0.1%
rav1e - 6 (FPS)	1.425	1.421	
	Normalized	100%	99.72%
	Standard Deviation	0.1%	0.2%
rav1e - 10 (FPS)	4.271	4.294	
	Normalized	99.46%	100%
	Standard Deviation	0.6%	0.3%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	7.141	7.250	
	Normalized	98.5%	100%
	Standard Deviation	1.9%	2.5%
SVT-AV1 - Preset 10 - Bosphorus 4K (FPS)	15.351	15.424	
	Normalized	99.53%	100%
	Standard Deviation	0.2%	0.1%
SVT-AV1 - Preset 12 - Bosphorus 4K (FPS)	30.578	30.429	
	Normalized	100%	99.51%
	Standard Deviation	0.1%	0.1%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	27.249	27.197	
	Normalized	100%	99.81%
	Standard Deviation	0.7%	2.3%
SVT-AV1 - Preset 10 - Bosphorus 1080p (FPS)	61.878	62.048	
	Normalized	99.73%	100%
	Standard Deviation	0.2%	0.2%
SVT-AV1 - Preset 12 - Bosphorus 1080p (FPS)	134.517	134.210	
	Normalized	100%	99.77%
	Standard Deviation	0.2%	0.1%
SVT-HEVC - 10 - Bosphorus 1080p (FPS)	60.26	59.89	
	Normalized	100%	99.39%

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	Standard Deviation	1.4%	3.2%
SVT-VP9 - VMAF Optimized - Bosphorus 1080p (FPS)	56.88	56.39	
Normalized	100%	99.14%	
	Standard Deviation	1.2%	3.1%
x264 - H.2.V.E (FPS)	23.33	23.53	
Normalized	99.15%	100%	
	Standard Deviation	1.7%	1.6%
x265 - Bosphorus 4K (FPS)	4.68	4.66	
Normalized	100%	99.57%	
	Standard Deviation	1%	2.4%
x265 - Bosphorus 1080p (FPS)	19.85	19.75	
Normalized	100%	99.5%	
	Standard Deviation	0.3%	2%
7-Zip Compression - Compression Rating (MIPS)	16223	16287	
Normalized	99.61%	100%	
	Standard Deviation	0.2%	0.1%
7-Zip Compression - D.R (MIPS)	7779	7787	
Normalized	99.9%	100%	
	Standard Deviation	0.1%	0.1%
Stockfish - Total Time (Nodes/s)	4323234	4400583	
Normalized	98.24%	100%	
	Standard Deviation	1.2%	2.2%
asmFish - 1.H.M.2.D (Nodes/s)	4669792	4697880	
Normalized	99.4%	100%	
	Standard Deviation	1.3%	1.9%
libavif avifenc - 2 (sec)	110.795	110.060	
Normalized	99.34%	100%	
	Standard Deviation	0.3%	0.1%
libavif avifenc - 6 (sec)	36.768	36.494	
Normalized	99.25%	100%	
	Standard Deviation	0.1%	0%
libavif avifenc - 10 (sec)	6.072	5.941	
Normalized	97.84%	100%	
	Standard Deviation	0.1%	0.1%
libavif avifenc - 6, Lossless (sec)	218.667	207.941	
Normalized	95.09%	100%	
	Standard Deviation	0.2%	0.1%
libavif avifenc - 10, Lossless (sec)	10.443	10.244	
Normalized	98.09%	100%	
	Standard Deviation	0.1%	0.1%
Timed FFmpeg Compilation - Time To Compile (sec)	228.496	227.049	
Normalized	99.37%	100%	
	Standard Deviation	0.1%	0.1%
Timed GDB GNU Debugger Compilation - Time To	211.152	211.492	
Compile (sec)			
Normalized	100%	99.84%	
	Standard Deviation	0.1%	0.2%
Timed Linux Kernel Compilation - defconfig (sec)	396.457	413.034	
Normalized	100%	95.99%	
	Standard Deviation	0.1%	0.2%
Timed MPlayer Compilation - Time To Compile (sec)	155.743	155.043	
Normalized	99.55%	100%	
	Standard Deviation	0%	0.2%
Primesieve - 1.P.N.G (sec)	95.051	94.919	
Normalized	99.86%	100%	

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	Standard Deviation	0.1%	0%
FLAC Audio Encoding - WAV To FLAC (sec)	Normalized	15.580	15.502
	Standard Deviation	0.1%	0.2%
LAME MP3 Encoding - WAV To MP3 (sec)	Normalized	8.005	7.954
	Standard Deviation	0.1%	0.1%
Opus Codec Encoding - WAV To Opus Encode (sec)	Normalized	7.318	7.335
	Standard Deviation	0.5%	0.4%
Google SynthMark - VoiceMark_100 (Voices)	Normalized	692.299	691.579
	Standard Deviation	0%	0%
Cpuminer-Opt - Magi (kH/s)	Normalized	69.94	74.97
	Standard Deviation	0.6%	1.1%
Cpuminer-Opt - x25x (kH/s)	Normalized	63.67	66.82
	Standard Deviation	0.6%	0.6%
Cpuminer-Opt - Deepcoin (kH/s)	Normalized	1342	1327
	Standard Deviation	0.1%	0.8%
Cpuminer-Opt - Ringcoin (kH/s)	Normalized	393.14	397.99
	Standard Deviation	0.5%	0.1%
Cpuminer-Opt - Blake-2 S (kH/s)	Normalized	60387	61297
	Standard Deviation	0.9%	0.9%
Cpuminer-Opt - Garlicoin (kH/s)	Normalized	323.61	330.28
	Standard Deviation	0.2%	0.4%
Cpuminer-Opt - Skeincoin (kH/s)	Normalized	10650	10780
	Standard Deviation	2.2%	2.1%
Cpuminer-Opt - Myriad-Groestl (kH/s)	Normalized	2723	2716
	Standard Deviation	0.2%	0.2%
Cpuminer-Opt - LBC, LBRY Credits (kH/s)	Normalized	4325	4336
	Standard Deviation	0.3%	3.6%
Cpuminer-Opt - Q.S.2.P (kH/s)	Normalized	8789	8808
	Standard Deviation	0.1%	0.1%
Cpuminer-Opt - T.S.2.O (kH/s)	18810		18810
	Standard Deviation	0.3%	0.6%
SecureMark - SecureMark-TLS (marks)	Normalized	253533	254872
	Standard Deviation	0%	0.3%
Liquid-DSP - 1 - 256 - 57 (samples/s)	Normalized	76764333	77511833
	Standard Deviation	0.1%	4.4%
Liquid-DSP - 2 - 256 - 57 (samples/s)	Normalized	153106667	156453333
	Standard Deviation	0.2%	0%
OpenSSL (sign/s)	Normalized	504.5	503.9

Celeron G6900 Linux Comparison

	Normalized	100%	99.88%
	Standard Deviation	0.1%	0.1%
OpenSSL (verify/s)	31845	31582	
	Normalized	100%	99.17%
	Standard Deviation	0%	0.4%
ASTC Encoder - Medium (sec)	8.9856	8.8415	
	Normalized	98.4%	100%
	Standard Deviation	0.1%	0.1%
ASTC Encoder - Thorough (sec)	31.6230	31.5507	
	Normalized	99.77%	100%
	Standard Deviation	0.2%	0.2%
ASTC Encoder - Exhaustive (sec)	295.5939	295.2766	
	Normalized	99.89%	100%
	Standard Deviation	0.2%	0.2%
TNN - CPU - DenseNet (ms)	4417	4443	
	Normalized	100%	99.41%
	Standard Deviation	0.3%	0.4%
TNN - CPU - MobileNet v2 (ms)	250.986	245.755	
	Normalized	97.92%	100%
	Standard Deviation	0.1%	0%
TNN - CPU - SqueezeNet v2 (ms)	61.743	60.313	
	Normalized	97.68%	100%
	Standard Deviation	0.3%	0.1%
TNN - CPU - SqueezeNet v1.1 (ms)	232.376	205.639	
	Normalized	88.49%	100%
	Standard Deviation	0.1%	0.1%
Blender - BMW27 - CPU-Only (sec)	850.04	847.89	
	Normalized	99.75%	100%
	Standard Deviation	0.2%	0.1%
IndigoBench - CPU - Bedroom (M samples/s)	0.264	0.264	
	Standard Deviation	0%	0.2%
IndigoBench - CPU - Supercar (M samples/s)	0.688	0.685	
	Normalized	100%	99.56%
	Standard Deviation	0.1%	0.4%
PyBench - T.F.A.T.T (Milliseconds)	759	886	
	Normalized	100%	85.67%
	Standard Deviation	0.1%	0.1%
PyPerformance - float (Milliseconds)	87.0	88.0	
	Normalized	100%	98.86%
	Standard Deviation	0.2%	0.1%
PyPerformance - pathlib (Milliseconds)	13.7	15.4	
	Normalized	100%	88.96%
	Standard Deviation	0.4%	0%
PyPerformance - regex_compile (Milliseconds)	135	145	
	Normalized	100%	93.1%
	Standard Deviation	0%	0%
PyPerformance - python_startup (Milliseconds)	8.03	8.35	
	Normalized	100%	96.17%
	Standard Deviation	0%	0.1%
PyPerformance - pickle_pure_python (Milliseconds)	333	363	
	Normalized	100%	91.74%
	Standard Deviation	0.3%	0.3%
Appleseed - Material Tester (sec)	1157	1159	
	Normalized	100%	99.81%
PHPBench - P.B.S (Score)	917979	916259	

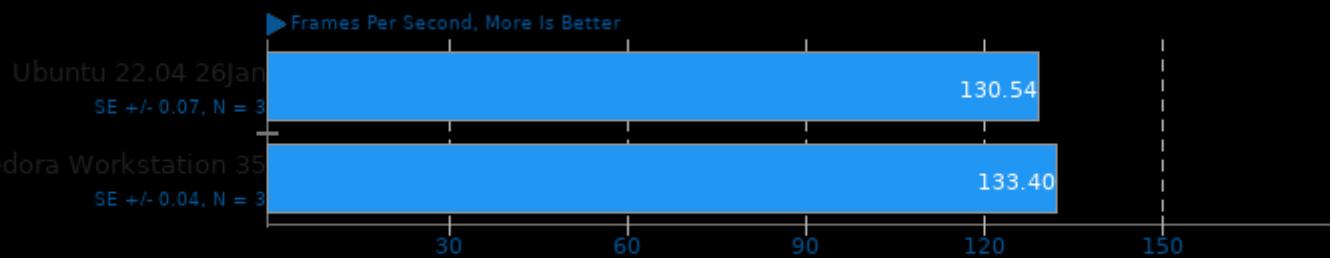
Celeron G6900 Linux Comparison

	Normalized	100%	99.81%
	Standard Deviation	0.2%	0.2%
Selenium - Kraken - Firefox (ms)	1080	1109	
	Normalized	100%	97.42%
	Standard Deviation	0.6%	0.4%
Selenium - StyleBench - Firefox (Runs / Minute)	62.2	58.9	
	Normalized	100%	94.69%
	Standard Deviation	0.3%	0.5%
Selenium - Jetstream 2 - Firefox (Score)	86.987	82.393	
	Normalized	100%	94.72%
	Standard Deviation	1.1%	1.2%
Selenium - Speedometer - Firefox (Runs/min)	143	124	
	Normalized	100%	86.71%
	Standard Deviation	1.1%	0.9%
Selenium - Kraken - Google Chrome (ms)	665.4	668.6	
	Normalized	100%	99.52%
	Standard Deviation	0.3%	0.7%
Selenium - StyleBench - Google Chrome (Runs /	44.86	44.76	
	Normalized	100%	99.78%
	Standard Deviation	0.3%	0.3%
Selenium - Jetstream 2 - Google Chrome (Score)	144.551	143.629	
	Normalized	100%	99.36%
	Standard Deviation	0.8%	0.9%
Selenium - Speedometer - Google Chrome (Runs/min)	193	189	
	Normalized	100%	97.93%
	Standard Deviation	1.7%	0%
Selenium - PSPDFKit WASM - Google Chrome (Score)	3324	3316	
	Normalized	99.76%	100%
	Standard Deviation	0.5%	0.3%
Selenium - W.i - Firefox (ms)	29.6	29.8	
	Normalized	100%	99.33%
	Standard Deviation	0.2%	0.8%
Selenium - W.c - Firefox (ms)	404.2	403.8	
	Normalized	99.9%	100%
	Standard Deviation	0%	0.1%
Selenium - W.i - Google Chrome (ms)	27.27	27.48	
	Normalized	100%	99.24%
	Standard Deviation	0.6%	0.3%
Selenium - W.c - Google Chrome (ms)	317.39	316.99	
	Normalized	99.87%	100%
	Standard Deviation	0.3%	0.1%
Git - T.T.C.C.G.C (sec)	55.600	57.045	
	Normalized	100%	97.47%
	Standard Deviation	0%	0.1%
Sunflow Rendering System - G.I.I.S (sec)	3.783		
	Standard Deviation	2.3%	
Chaos Group V-RAY - CPU (vsamples)	1795	1801	
	Normalized	99.67%	100%
	Standard Deviation	0.3%	0.5%

Celeron G6900 Linux Comparison

DDrakeNetwork 15.8.1

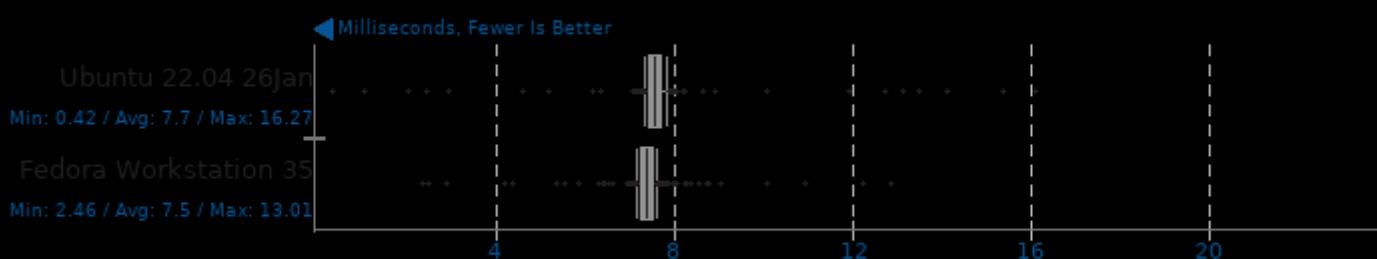
Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Zoomed out - Demo: RaiNyMore2



1. (CXX) g++ options: -O3 -lrt -lnotify -lgdk_pixbuf-2.0 -gio-2.0 -gobject-2.0 -glib-2.0

DDrakeNetwork 15.8.1

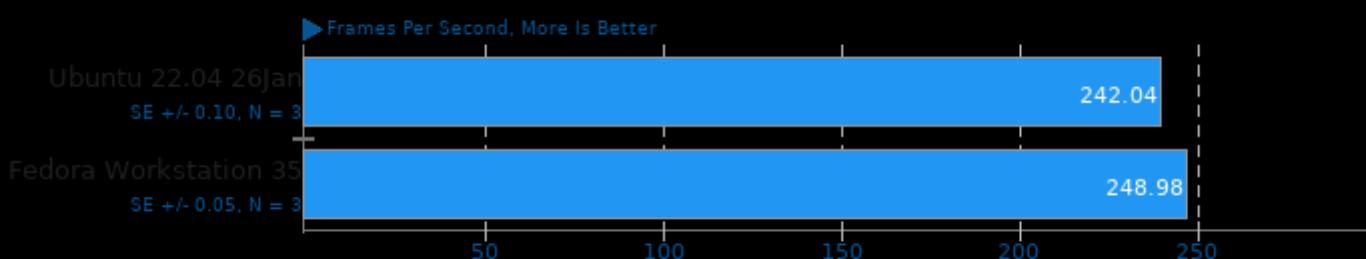
Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Zoomed out - Demo: RaiNyMore2 - Total Frame Time



1. (CXX) g++ options: -O3 -lrt -lnotify -lgdk_pixbuf-2.0 -gio-2.0 -gobject-2.0 -glib-2.0

DDrakeNetwork 15.8.1

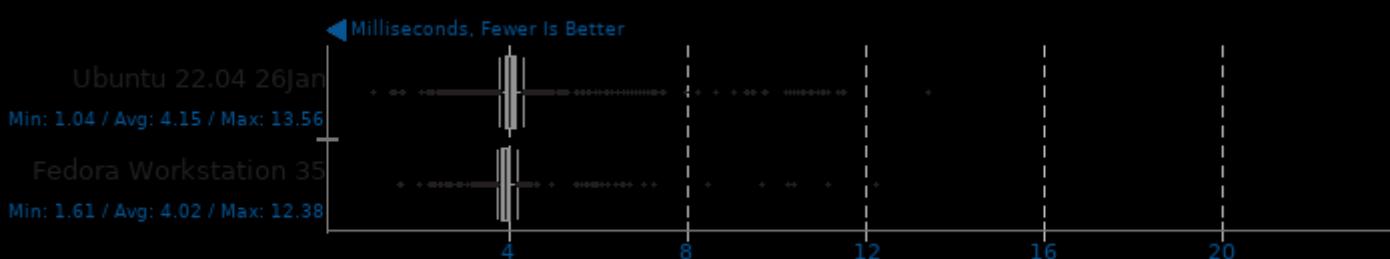
Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Zoomed out - Demo: Multeasymap



1. (CXX) g++ options: -O3 -lrt -lnotify -lgdk_pixbuf-2.0 -gio-2.0 -gobject-2.0 -glib-2.0

DDrakeNetwork 15.8.1

Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Zoomed out - Demo: Multeasymap - Total Frame Time

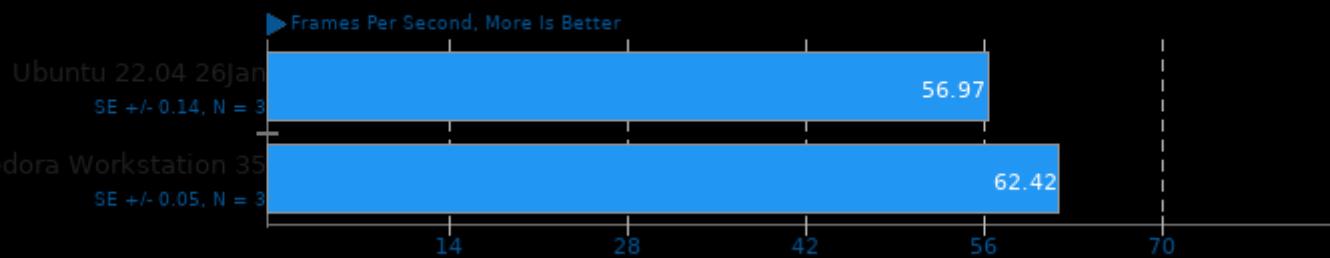


1. (CXX) g++ options: -O3 -lrt -lnotify -lgdk_pixbuf-2.0 -gio-2.0 -gobject-2.0 -glib-2.0

Celeron G6900 Linux Comparison

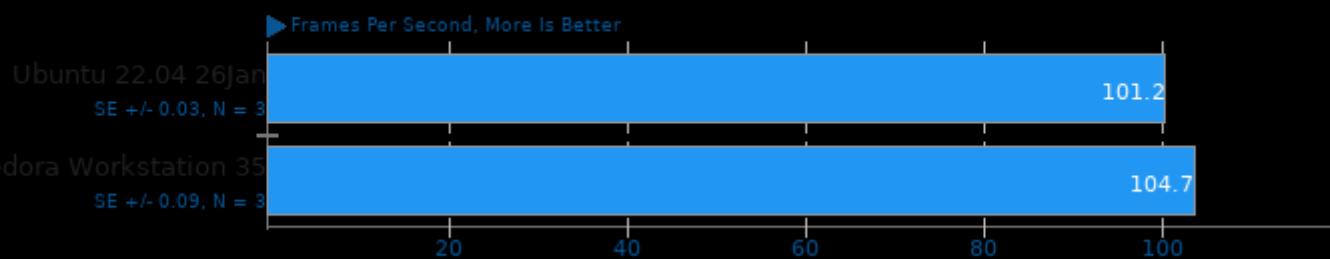
Tesseract 2014-05-12

Resolution: 1920 x 1080



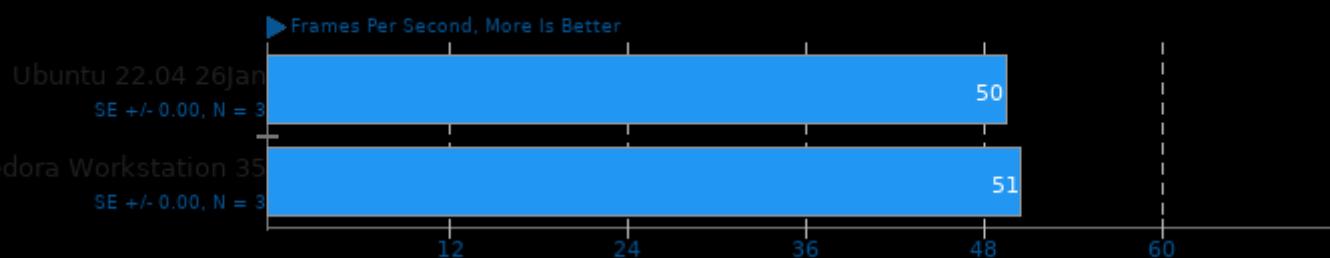
Unvanquished 0.52.1

Resolution: 1920 x 1080 - Effects Quality: High



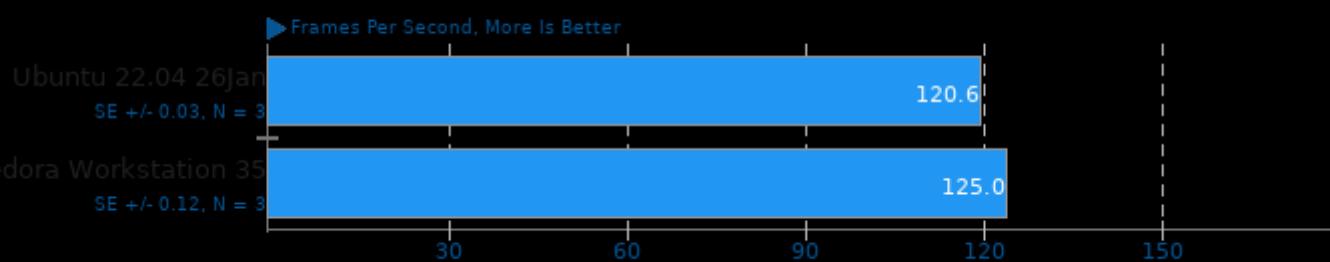
Unvanquished 0.52.1

Resolution: 1920 x 1080 - Effects Quality: Ultra



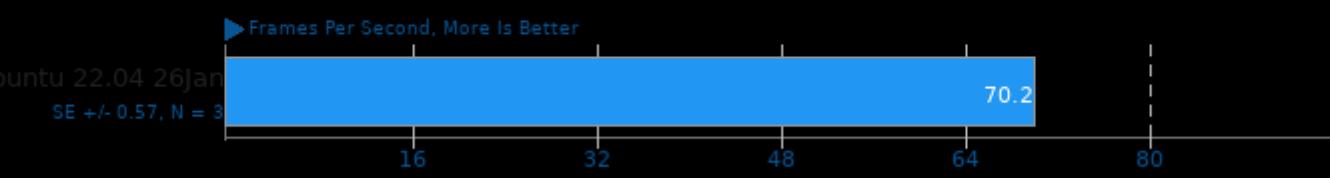
Unvanquished 0.52.1

Resolution: 1920 x 1080 - Effects Quality: Medium



Warsow 2.5 Beta

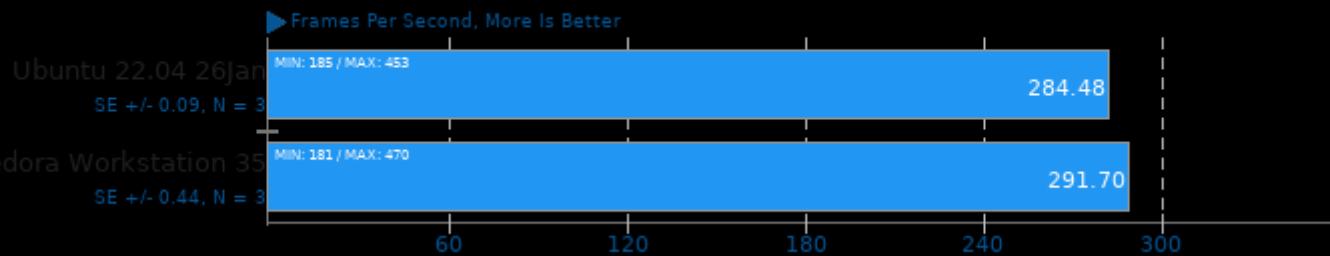
Resolution: 1920 x 1080



Celeron G6900 Linux Comparison

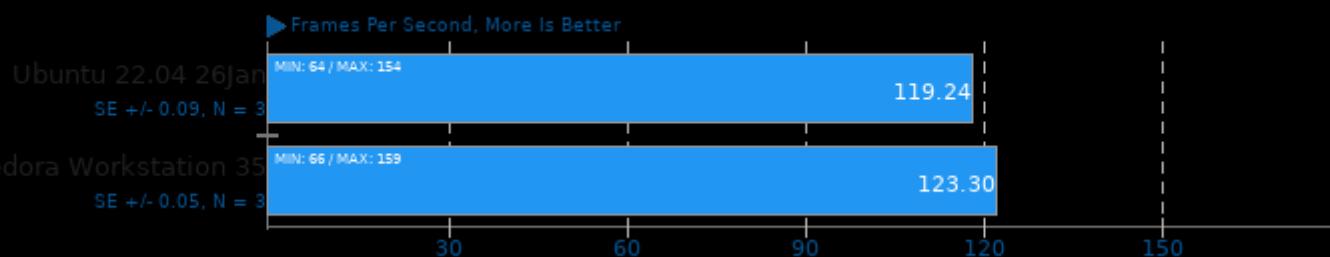
Xonotic 0.8.2

Resolution: 1920 x 1080 - Effects Quality: Low



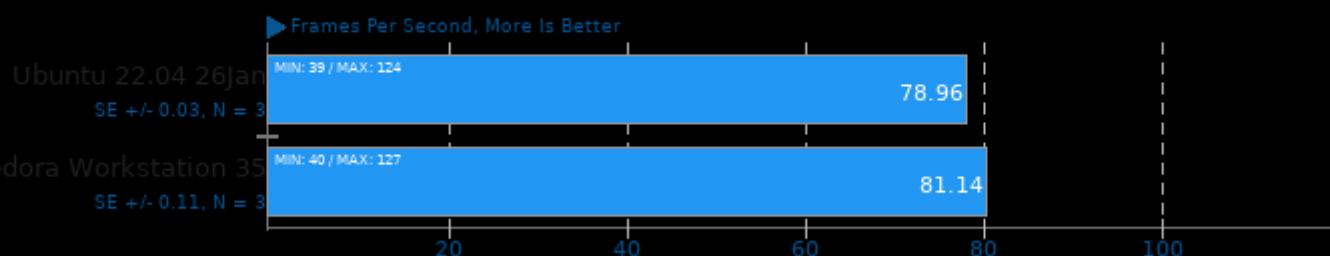
Xonotic 0.8.2

Resolution: 1920 x 1080 - Effects Quality: High



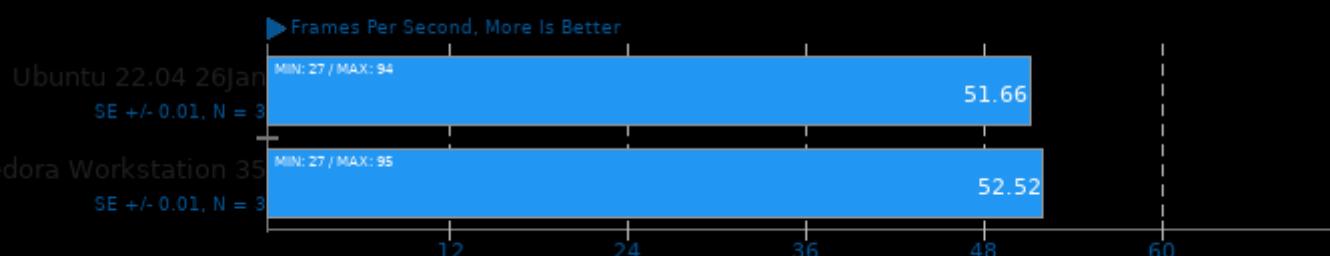
Xonotic 0.8.2

Resolution: 1920 x 1080 - Effects Quality: Ultra

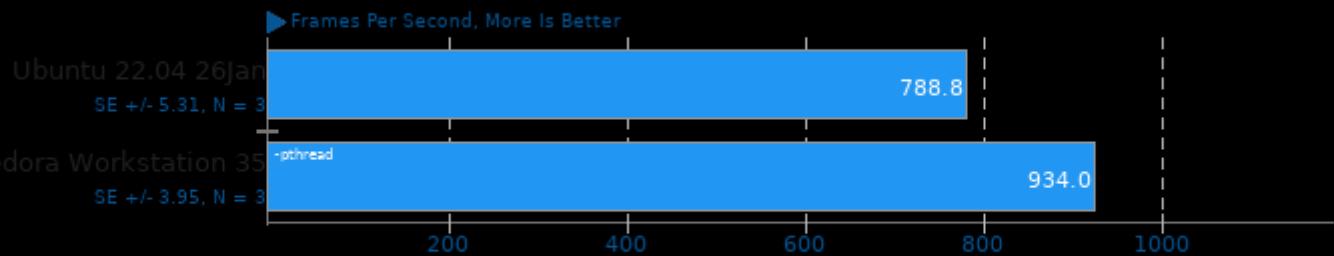


Xonotic 0.8.2

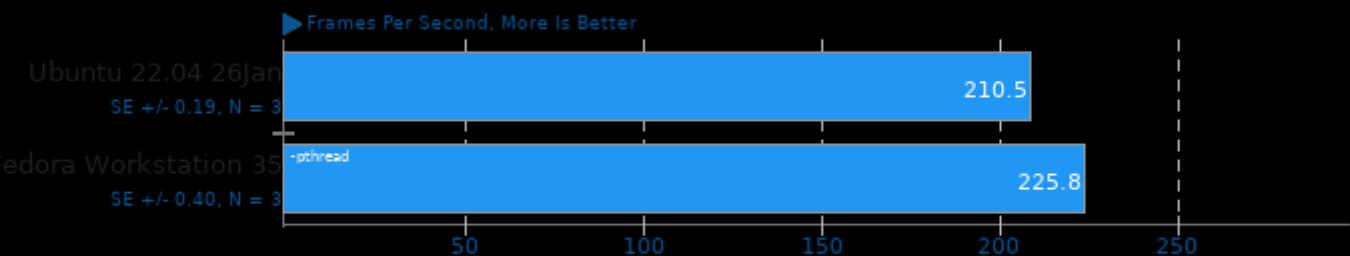
Resolution: 1920 x 1080 - Effects Quality: Ultimate



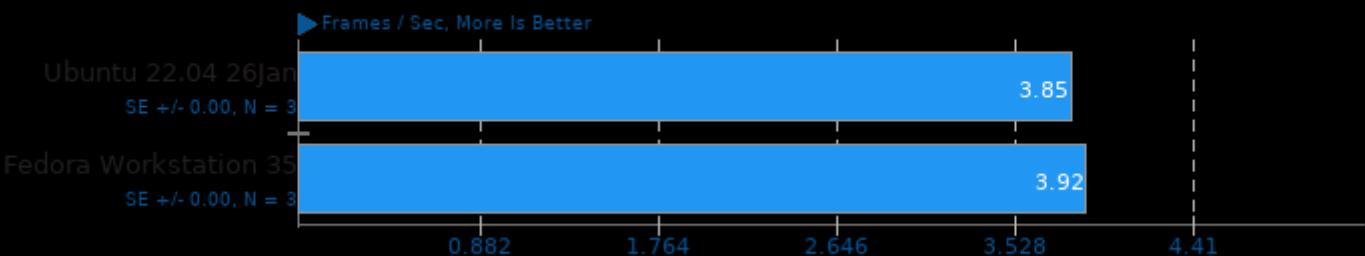
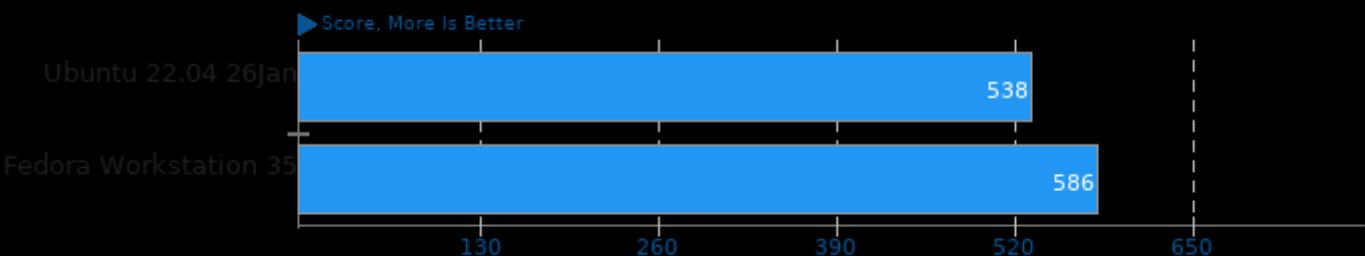
yquake2 8.0



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -fvisibility=hidden -MMD -mfpu



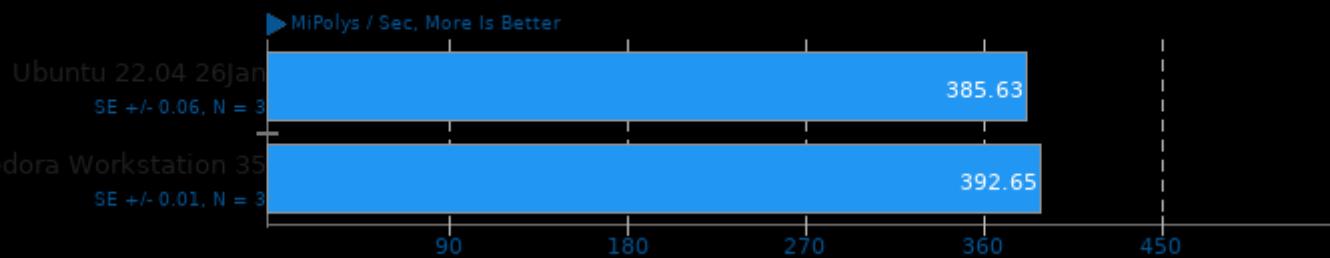
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -fvisibility=hidden -MMD -mfp



Celeron G6900 Linux Comparison

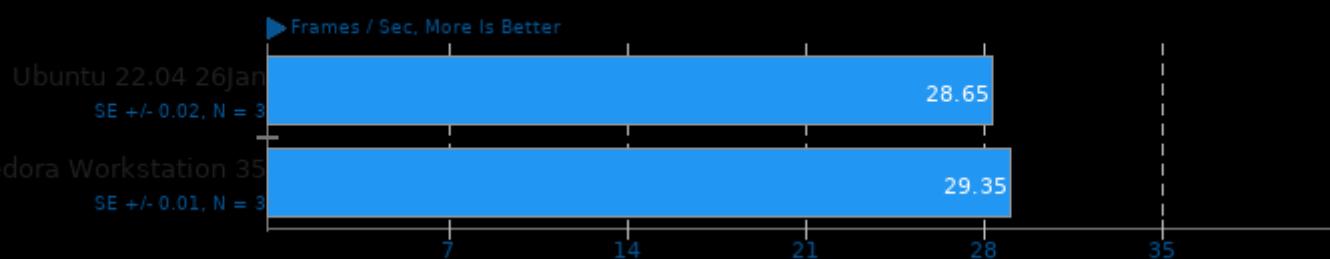
ParaView 5.9

Test: Many Spheres - Resolution: 1920 x 1080



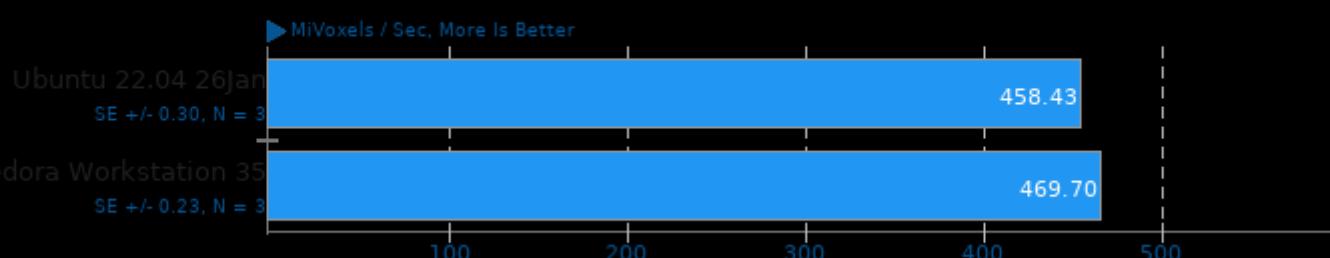
ParaView 5.9

Test: Wavelet Volume - Resolution: 1920 x 1080



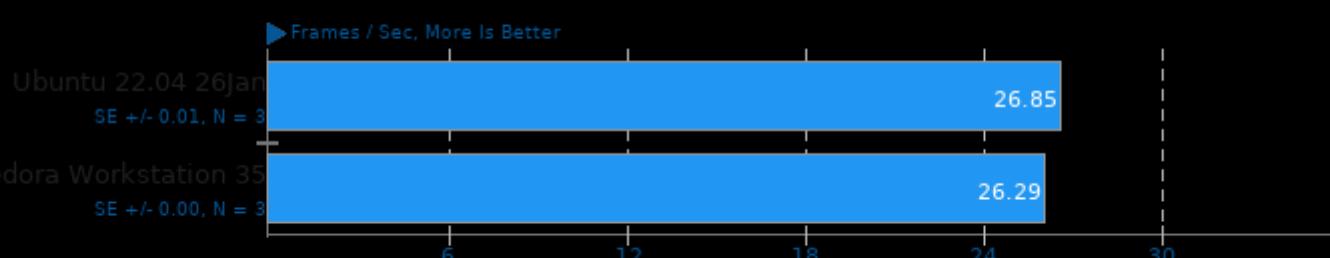
ParaView 5.9

Test: Wavelet Volume - Resolution: 1920 x 1080



ParaView 5.9

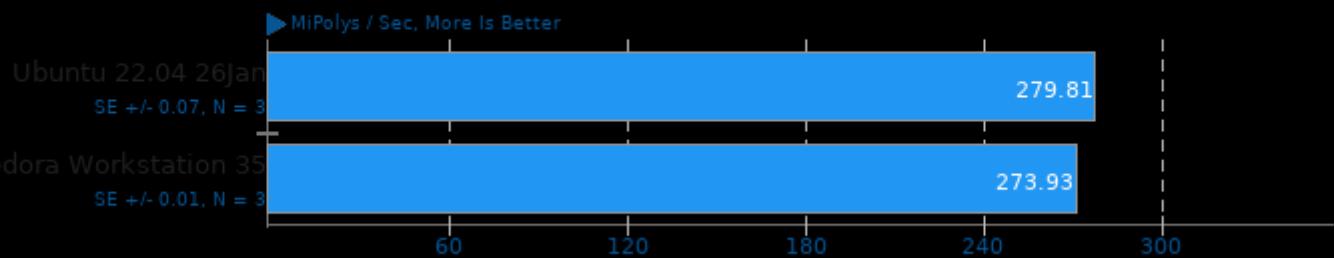
Test: Wavelet Contour - Resolution: 1920 x 1080



Celeron G6900 Linux Comparison

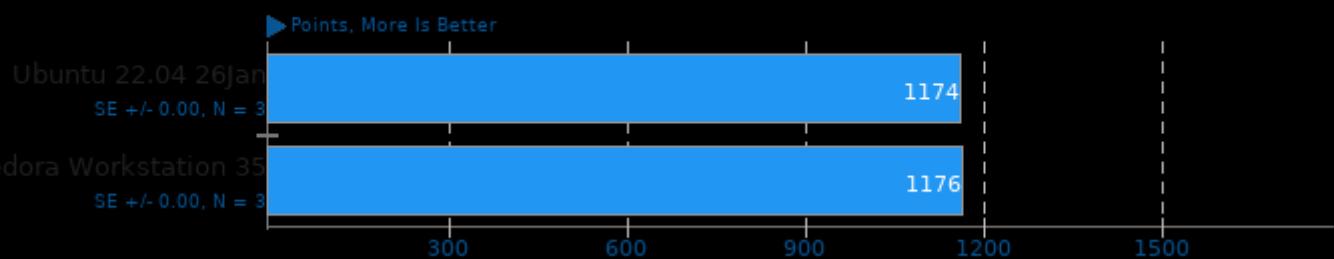
ParaView 5.9

Test: Wavelet Contour - Resolution: 1920 x 1080



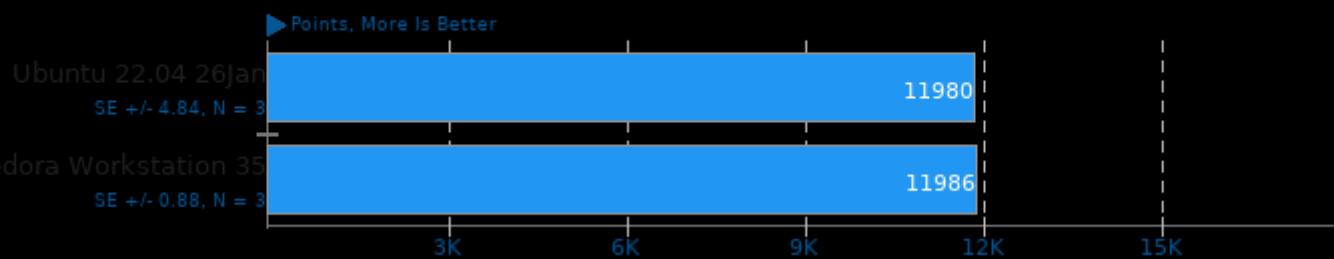
GpuTest 0.7.0

Test: GiMark - Resolution: 1920 x 1080 - Mode: Fullscreen



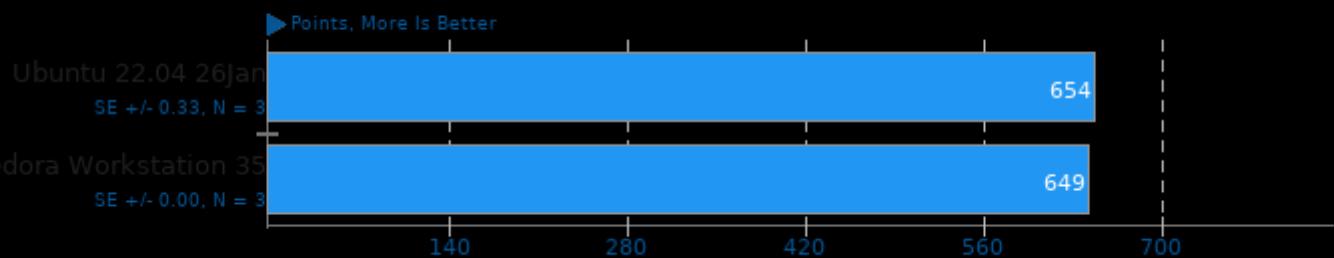
GpuTest 0.7.0

Test: Plot3D - Resolution: 1920 x 1080 - Mode: Fullscreen



GpuTest 0.7.0

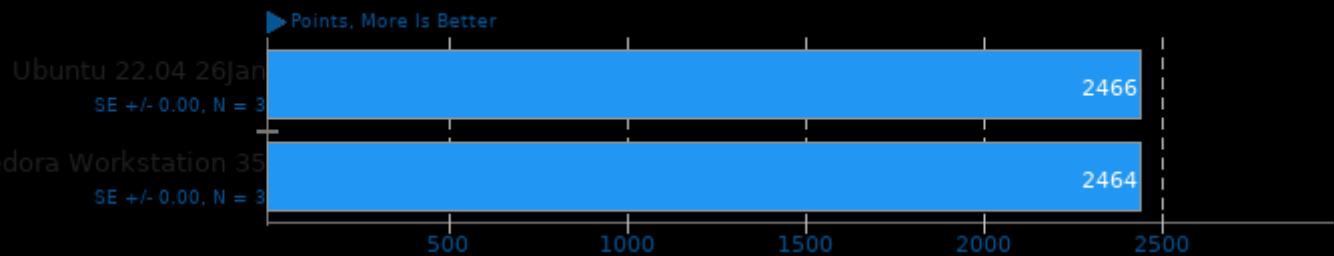
Test: Furmark - Resolution: 1920 x 1080 - Mode: Fullscreen



Celeron G6900 Linux Comparison

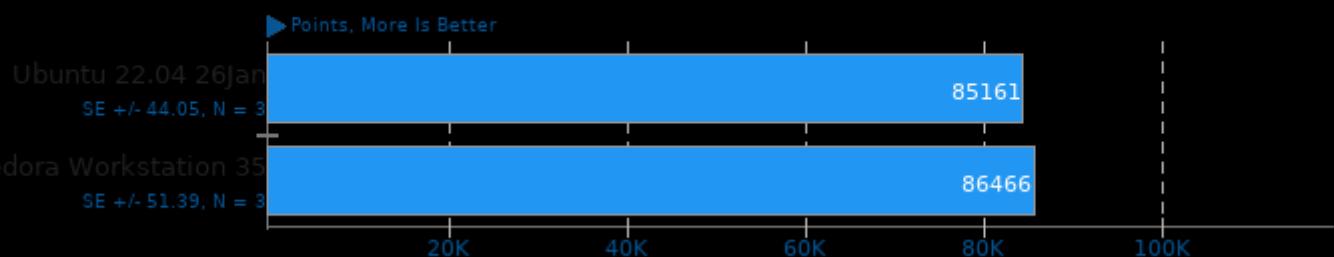
GpuTest 0.7.0

Test: TessMark - Resolution: 1920 x 1080 - Mode: Fullscreen



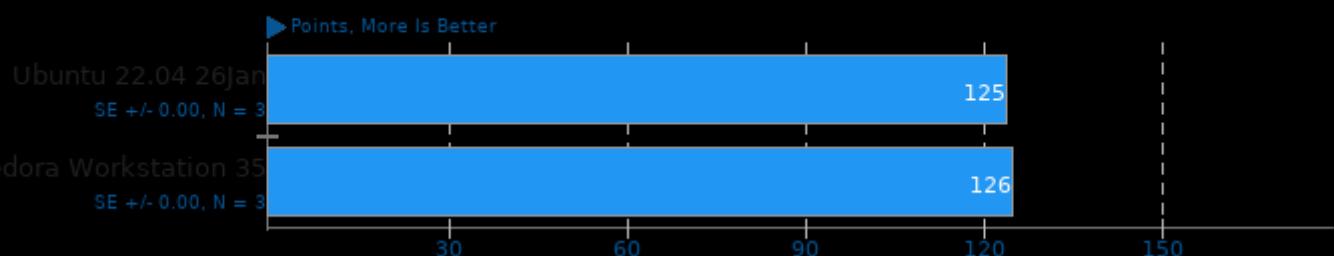
GpuTest 0.7.0

Test: Triangle - Resolution: 1920 x 1080 - Mode: Fullscreen



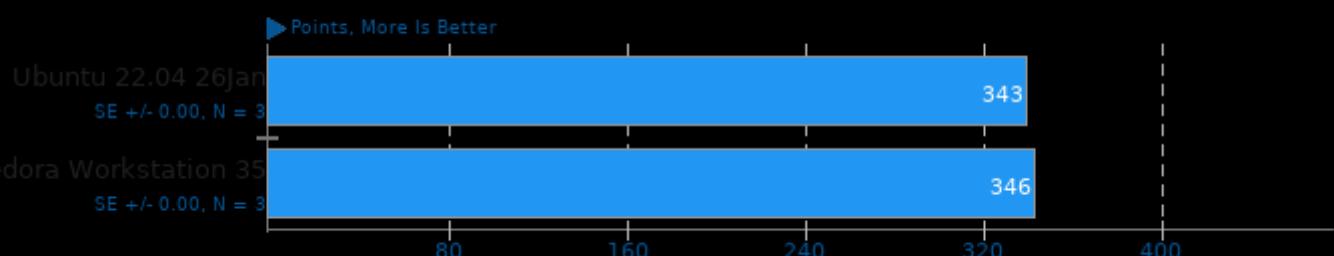
GpuTest 0.7.0

Test: Pixmark Piano - Resolution: 1920 x 1080 - Mode: Fullscreen



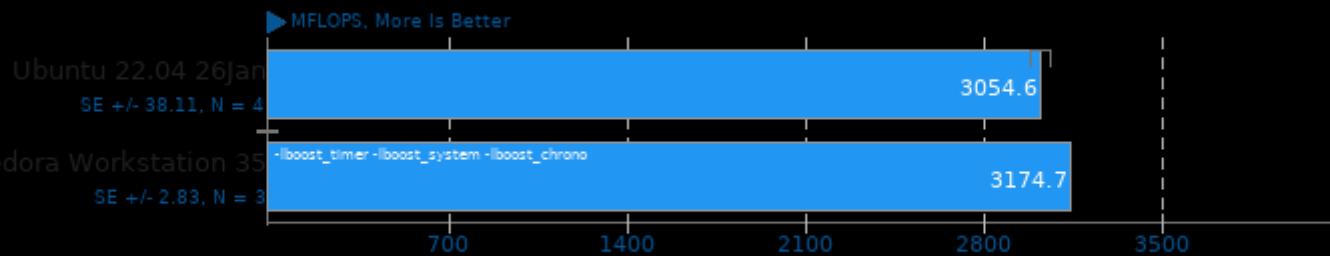
GpuTest 0.7.0

Test: Pixmark Volplosion - Resolution: 1920 x 1080 - Mode: Fullscreen



Celeron G6900 Linux Comparison

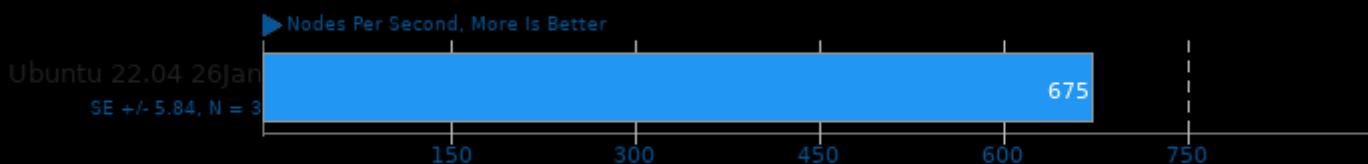
QuantLib 1.21



1. (CXX) g++ options: -O3 -march=native -rdynamic

LeelaChessZero 0.28

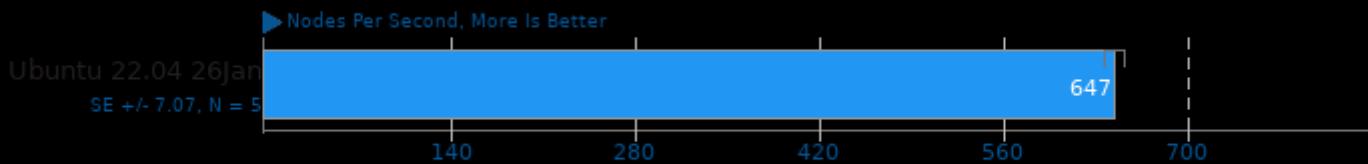
Backend: BLAS



1. (CXX) g++ options: -fno -pthread

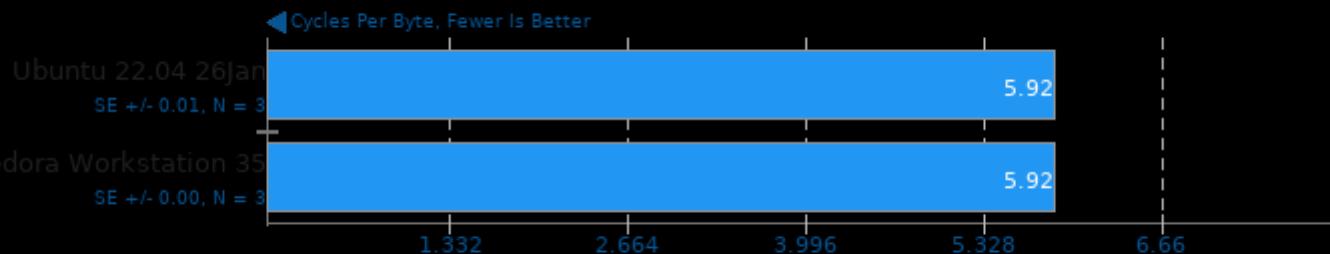
LeelaChessZero 0.28

Backend: Eigen



1. (CXX) g++ options: -fno -pthread

BLAKE2 20170307

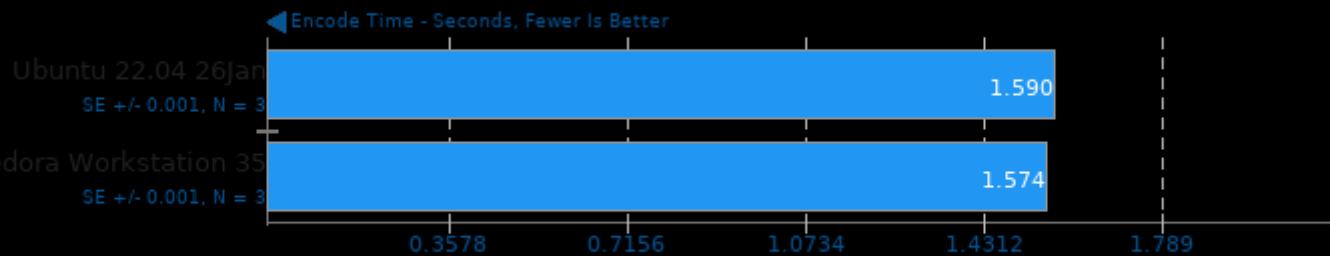


1. (CC) gcc options: -O3 -march=native -lcrypto -lz

Celeron G6900 Linux Comparison

WebP Image Encode 1.1

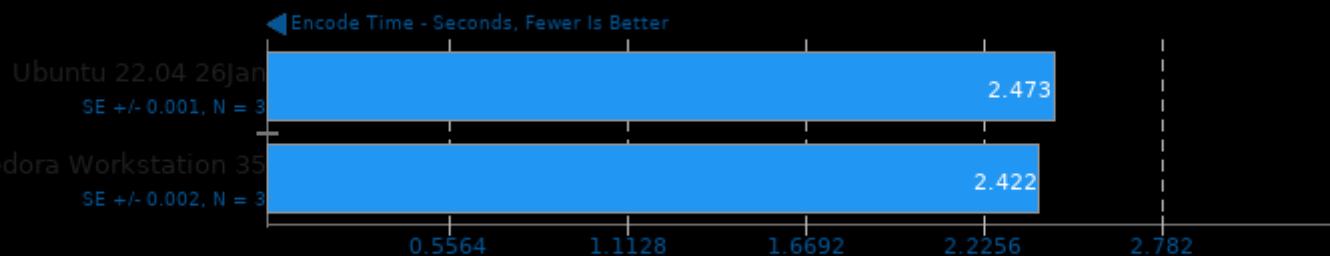
Encode Settings: Default



1. (CC) gcc options: -fvisibility=hidden -O2 -lm -ljpeg -lpng16 -ltiff

WebP Image Encode 1.1

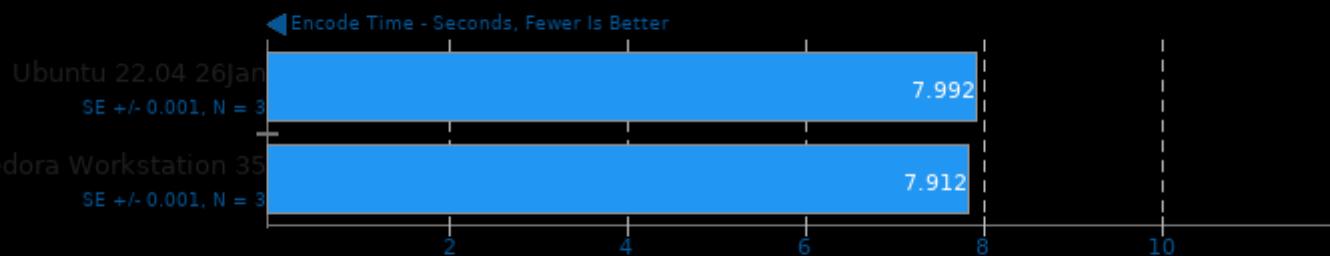
Encode Settings: Quality 100



1. (CC) gcc options: -fvisibility=hidden -O2 -lm -ljpeg -lpng16 -ltiff

WebP Image Encode 1.1

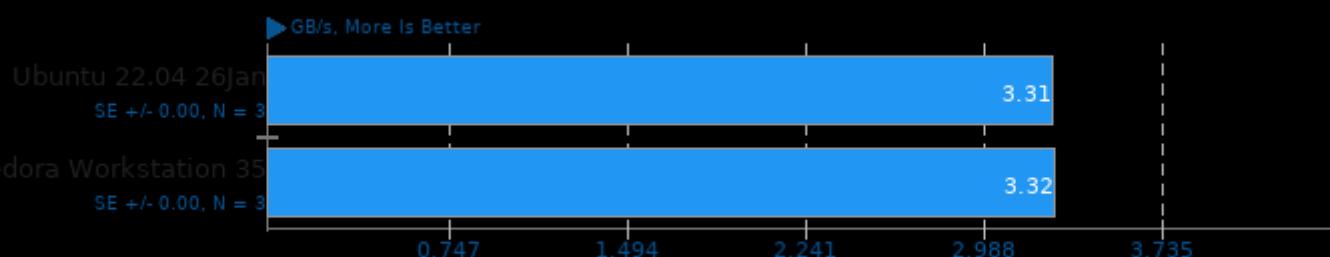
Encode Settings: Quality 100, Highest Compression



1. (CC) gcc options: -fvisibility=hidden -O2 -lm -ljpeg -lpng16 -ltiff

simdjson 1.0

Throughput Test: Kostya

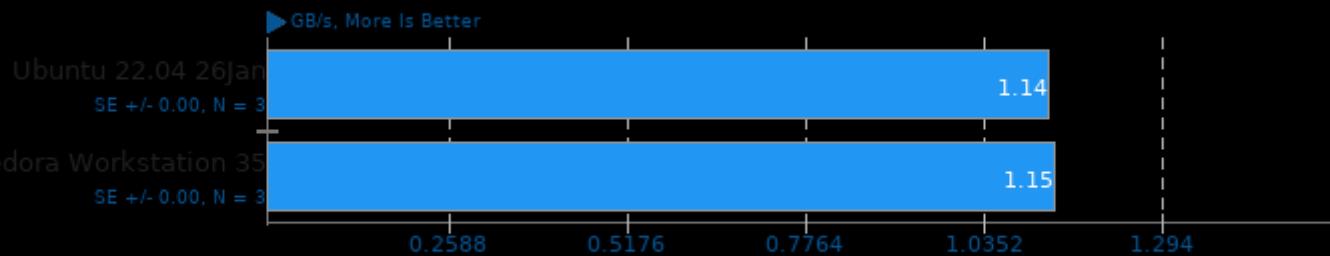


1. (CXX) g++ options: -O3

Celeron G6900 Linux Comparison

simdjson 1.0

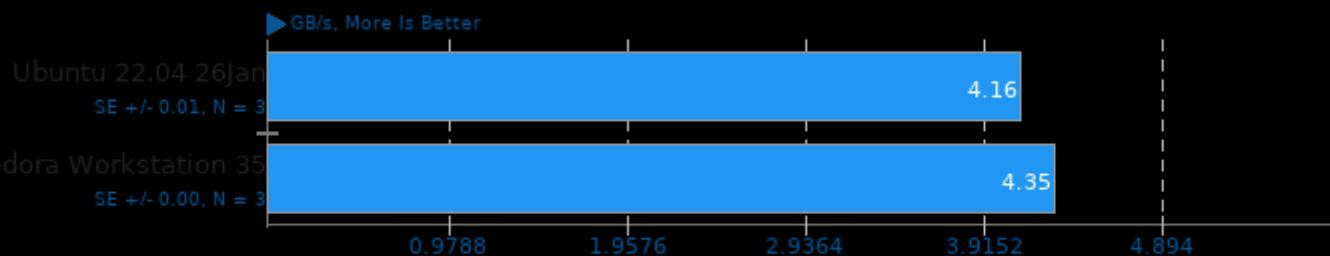
Throughput Test: LargeRandom



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

simdjson 1.0

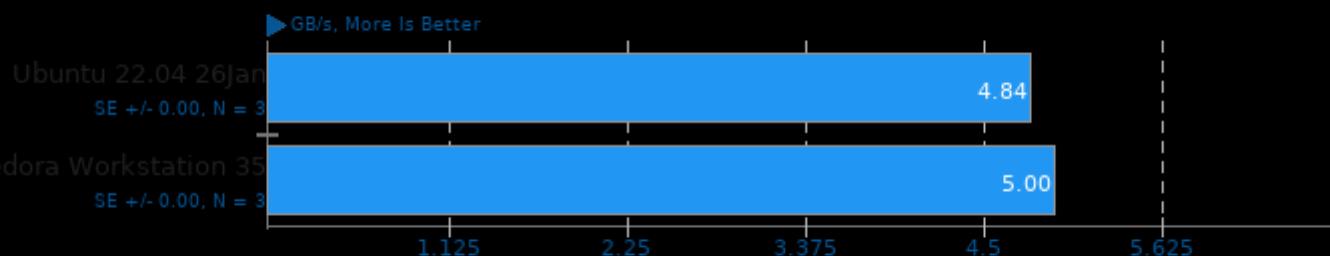
Throughput Test: PartialTweets



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

simdjson 1.0

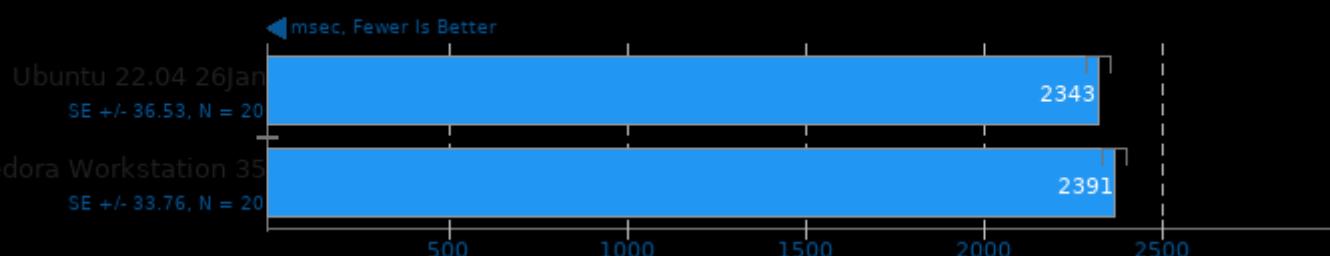
Throughput Test: DistinctUserID



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

DaCapo Benchmark 9.12-MR1

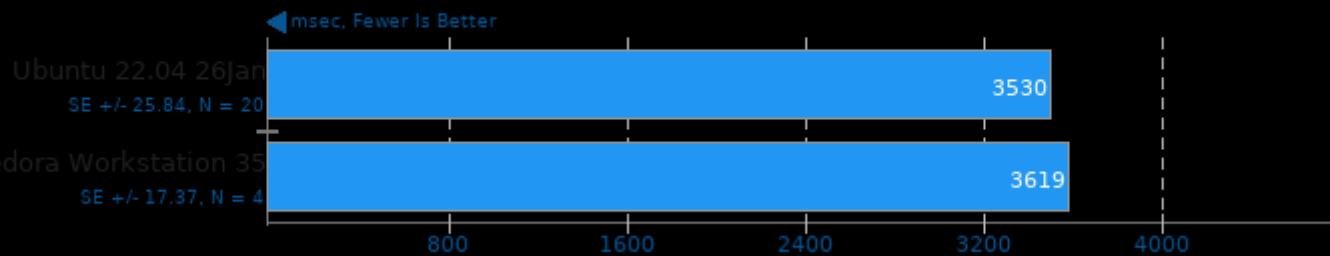
Java Test: H2



Celeron G6900 Linux Comparison

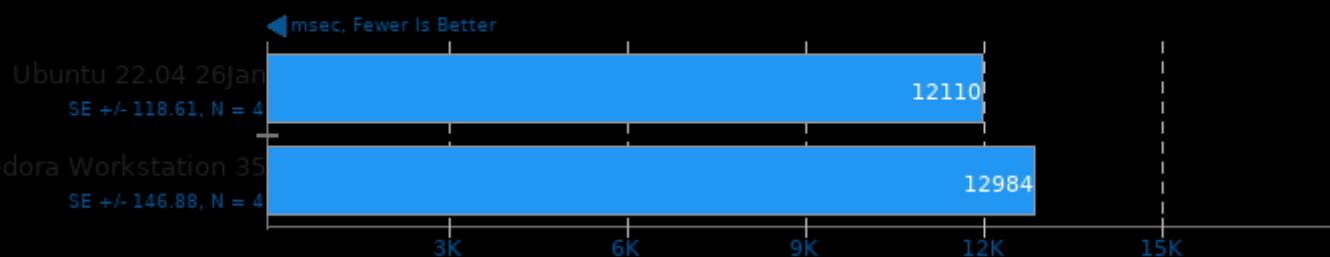
DaCapo Benchmark 9.12-MR1

Java Test: Jython



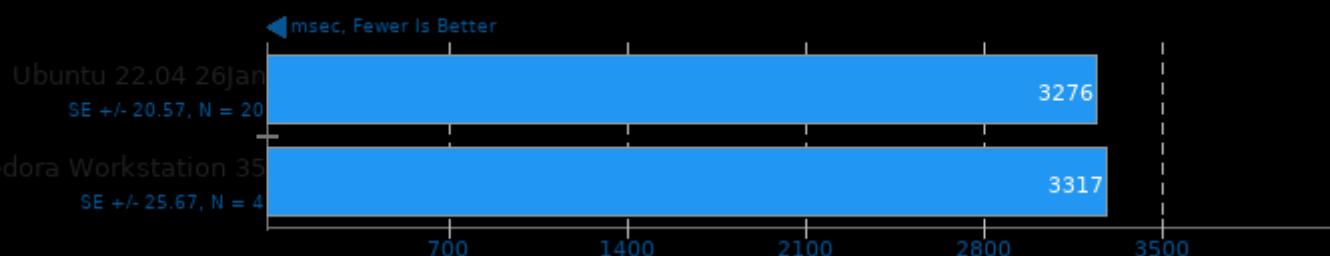
DaCapo Benchmark 9.12-MR1

Java Test: Tradesoap



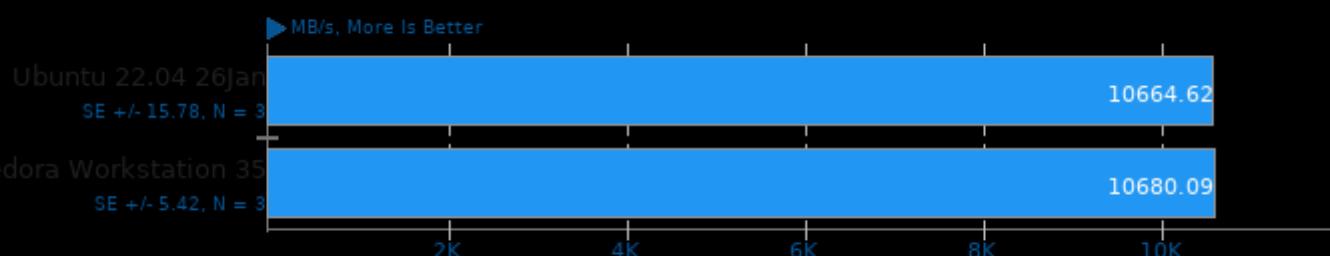
DaCapo Benchmark 9.12-MR1

Java Test: Tradebeans



LZ4 Compression 1.9.3

Compression Level: 1 - Compression Speed

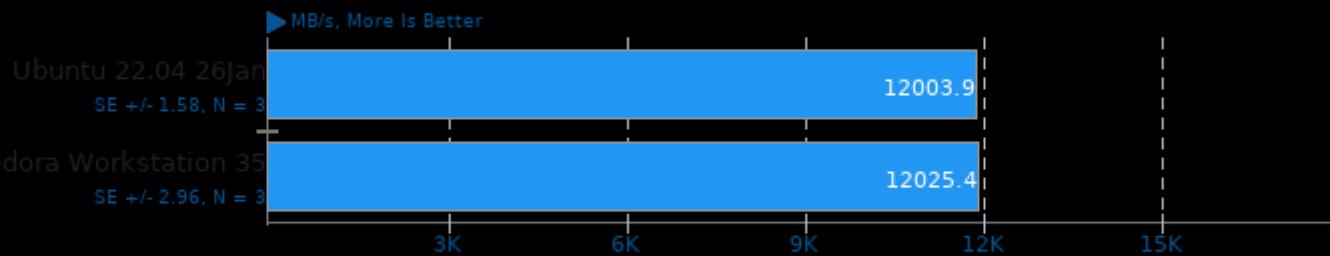


1. (CC) gcc options: -O3

Celeron G6900 Linux Comparison

LZ4 Compression 1.9.3

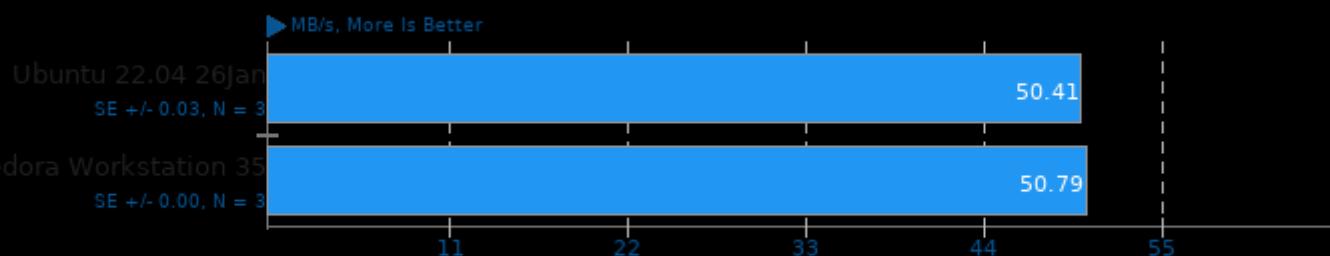
Compression Level: 1 - Decompression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

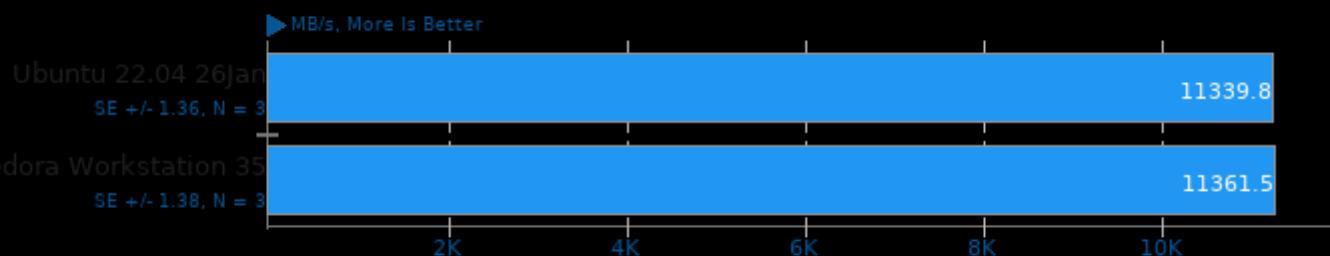
Compression Level: 3 - Compression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

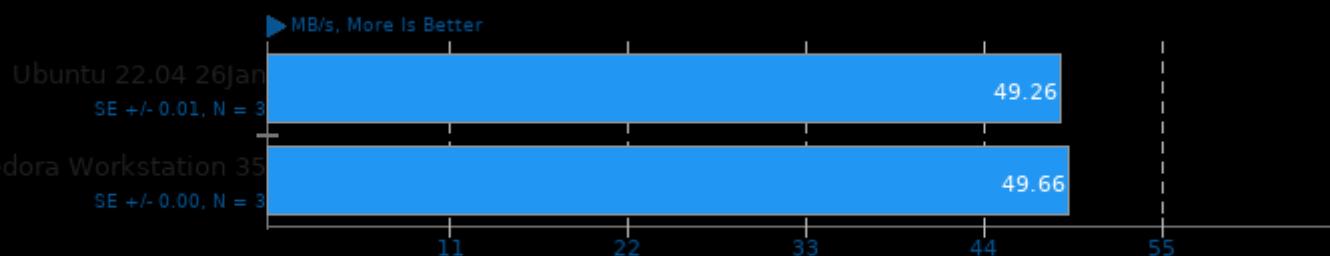
Compression Level: 3 - Decompression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

Compression Level: 9 - Compression Speed

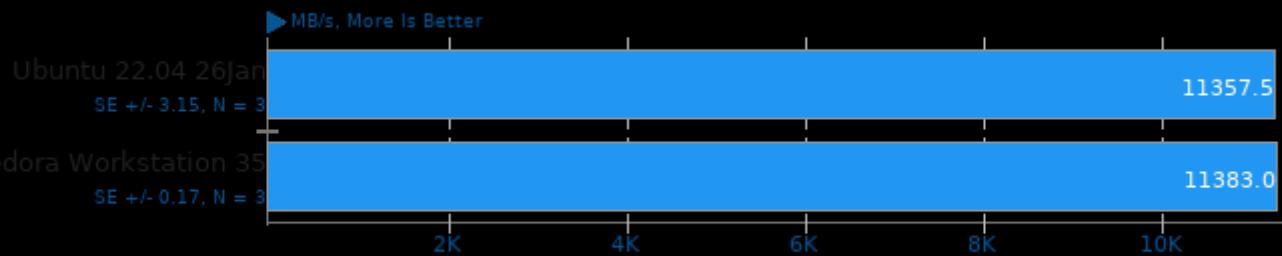


1. (CC) gcc options: -O3

Celeron G6900 Linux Comparison

LZ4 Compression 1.9.3

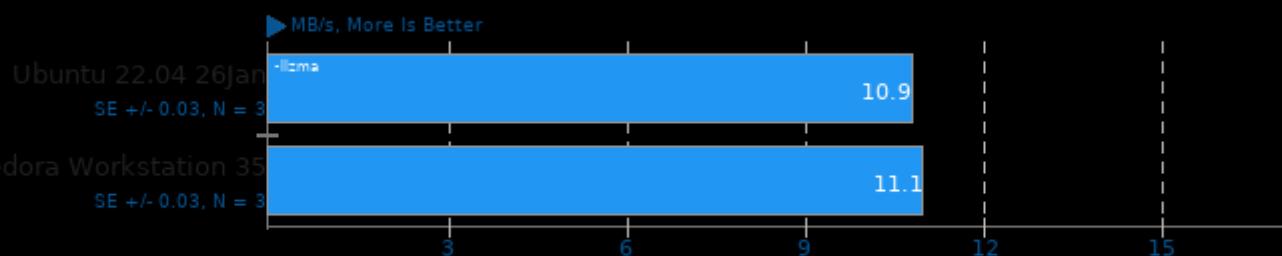
Compression Level: 9 - Decompression Speed



1. (CC) gcc options: -O3

Zstd Compression 1.5.0

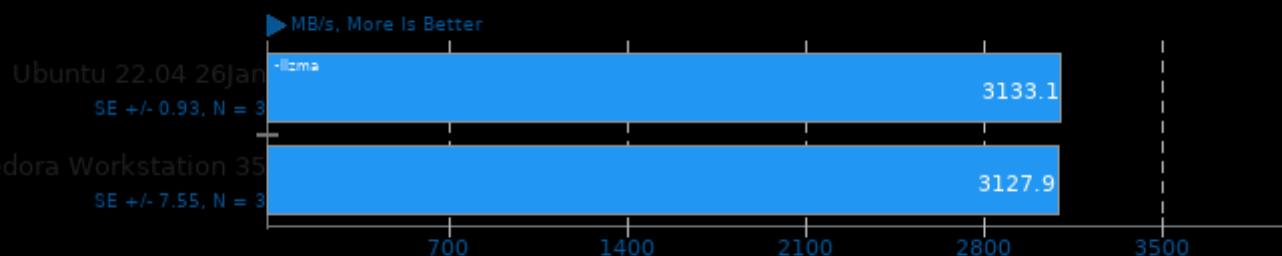
Compression Level: 19 - Compression Speed



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

Zstd Compression 1.5.0

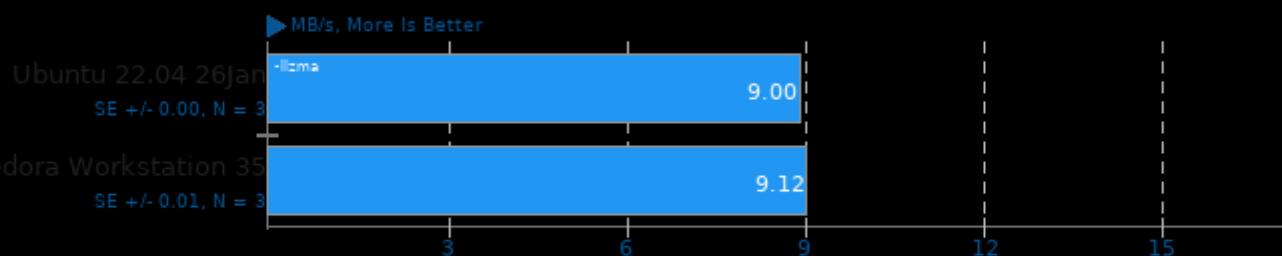
Compression Level: 19 - Decompression Speed



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

Zstd Compression 1.5.0

Compression Level: 19, Long Mode - Compression Speed

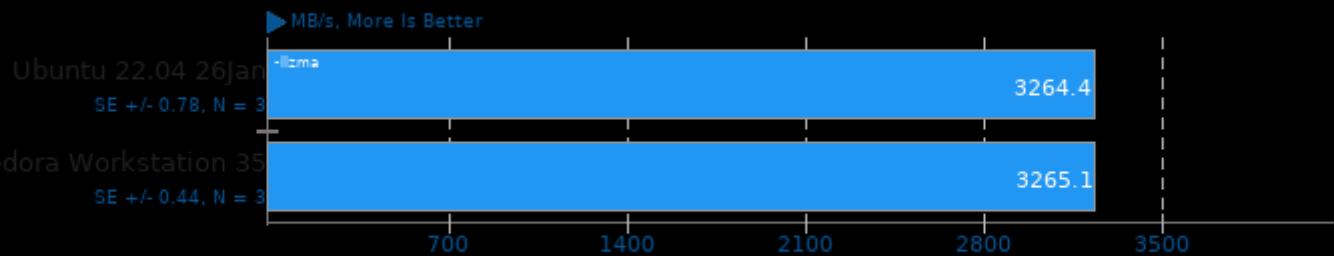


1. (CC) gcc options: -O3 -pthread -lz

Celeron G6900 Linux Comparison

Zstd Compression 1.5.0

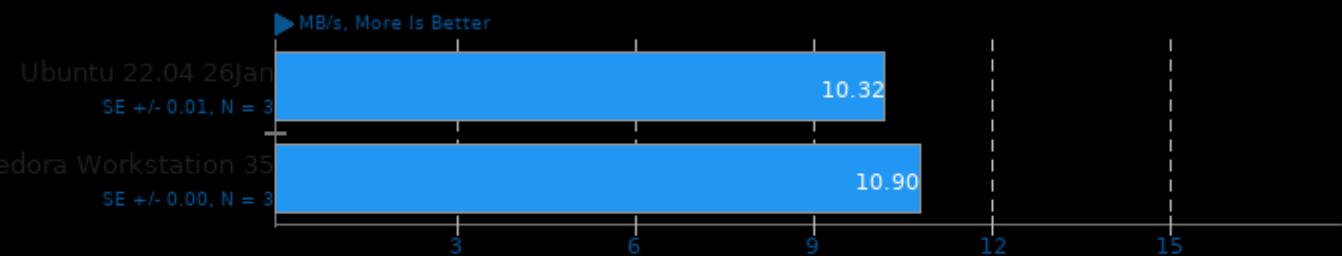
Compression Level: 19, Long Mode - Decompression Speed



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

Zstd Compression

Compression Level: 19 - Compression Speed

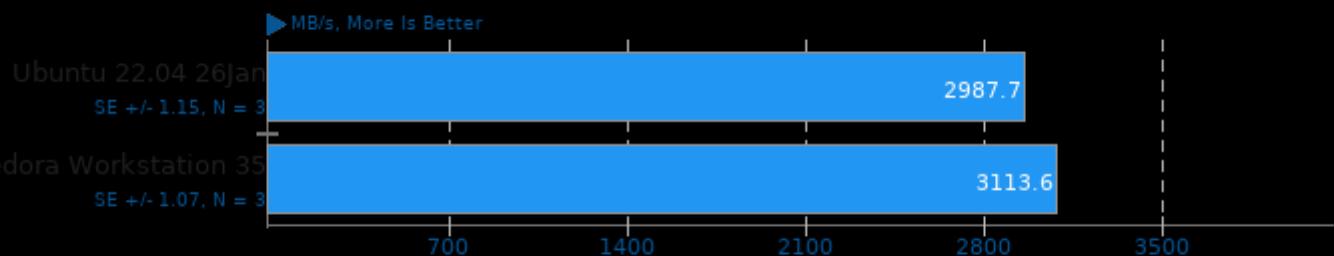


1. Ubuntu 22.04 26Jan: *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***

2. Fedora Workstation 35: *** zstd command line interface 64-bits v1.5.2, by Yann Collet ***

Zstd Compression

Compression Level: 19 - Decompression Speed



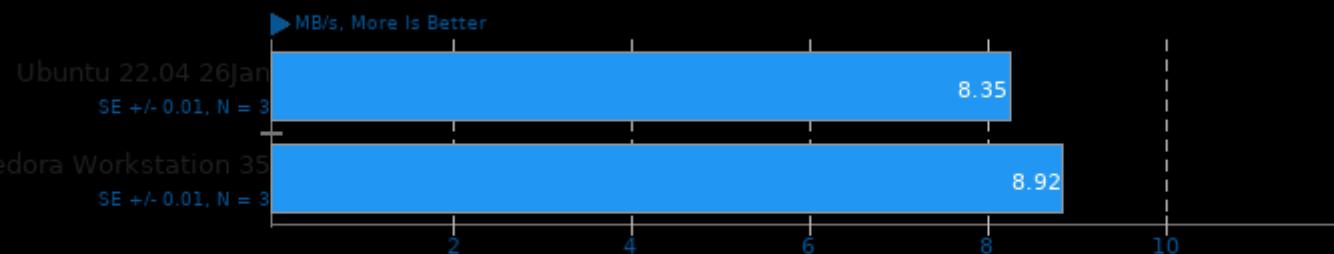
1. Ubuntu 22.04 26Jan: *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***

2. Fedora Workstation 35: *** zstd command line interface 64-bits v1.5.2, by Yann Collet ***

Celeron G6900 Linux Comparison

Zstd Compression

Compression Level: 19, Long Mode - Compression Speed

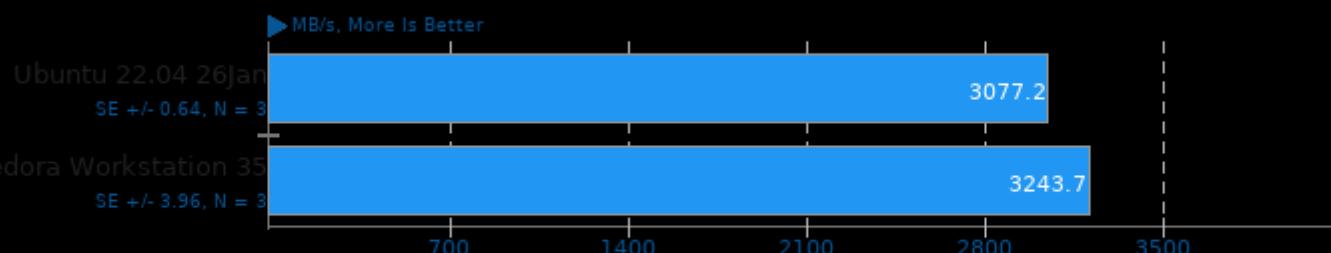


1. Ubuntu 22.04 26Jan: *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***

2. Fedora Workstation 35: *** zstd command line interface 64-bits v1.5.2, by Yann Collet ***

Zstd Compression

Compression Level: 19, Long Mode - Decompression Speed

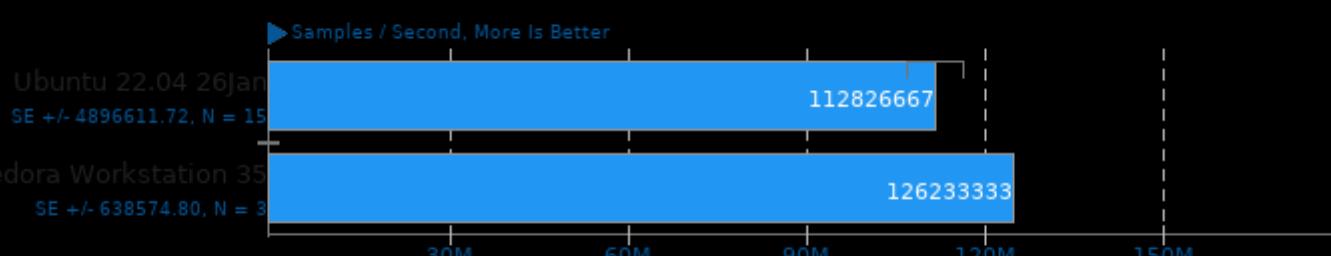


1. Ubuntu 22.04 26Jan: *** zstd command line interface 64-bits v1.4.8, by Yann Collet ***

2. Fedora Workstation 35: *** zstd command line interface 64-bits v1.5.2, by Yann Collet ***

srsRAN 21.10

Test: OFDM_Test

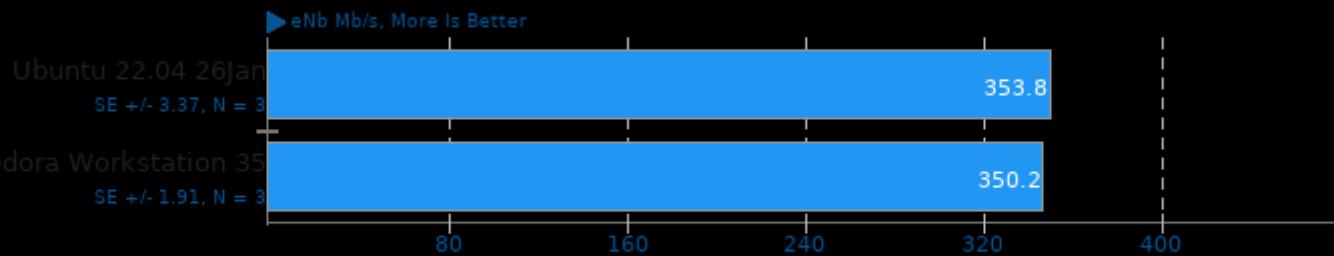


1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

Celeron G6900 Linux Comparison

srsRAN 21.10

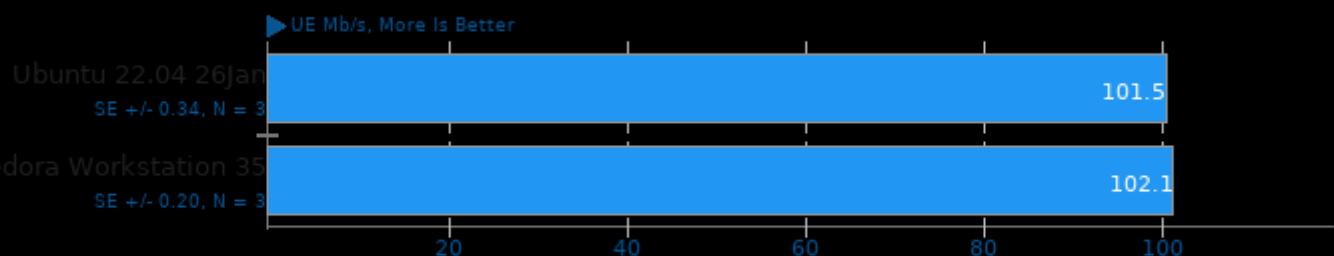
Test: 4G PHY_DL_Test 100 PRB MIMO 64-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 21.10

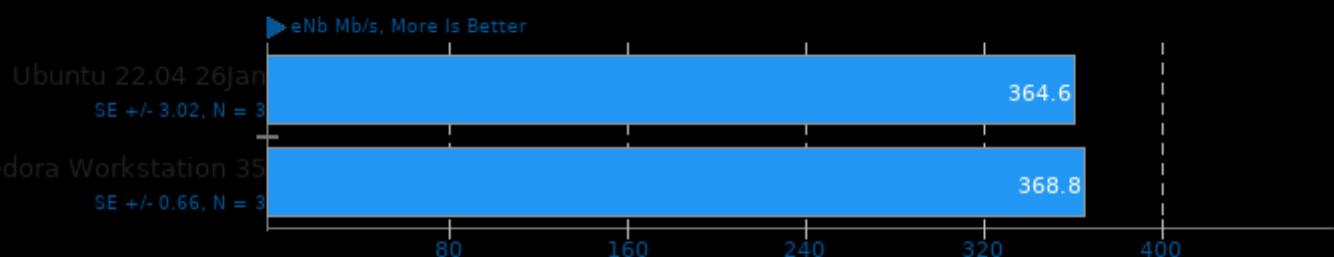
Test: 4G PHY_DL_Test 100 PRB MIMO 64-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 21.10

Test: 4G PHY_DL_Test 100 PRB SISO 64-QAM

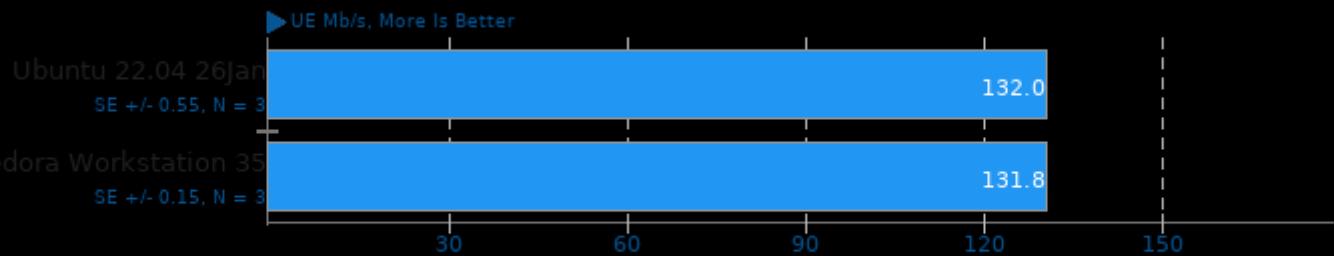


1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

Celeron G6900 Linux Comparison

srsRAN 21.10

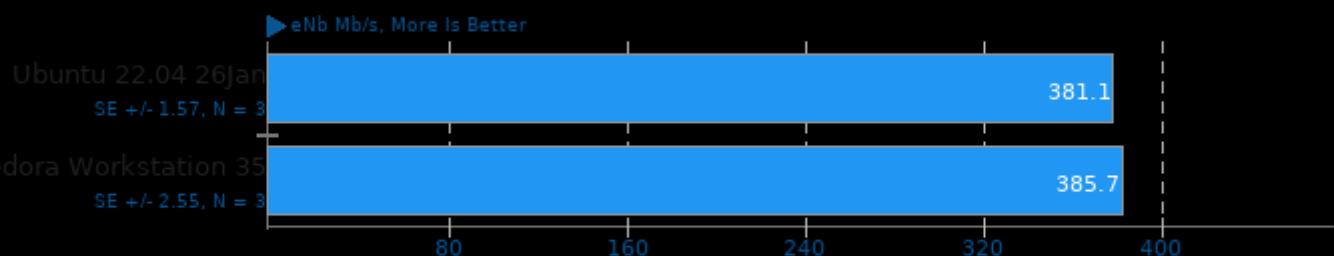
Test: 4G PHY_DL_Test 100 PRB SISO 64-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 21.10

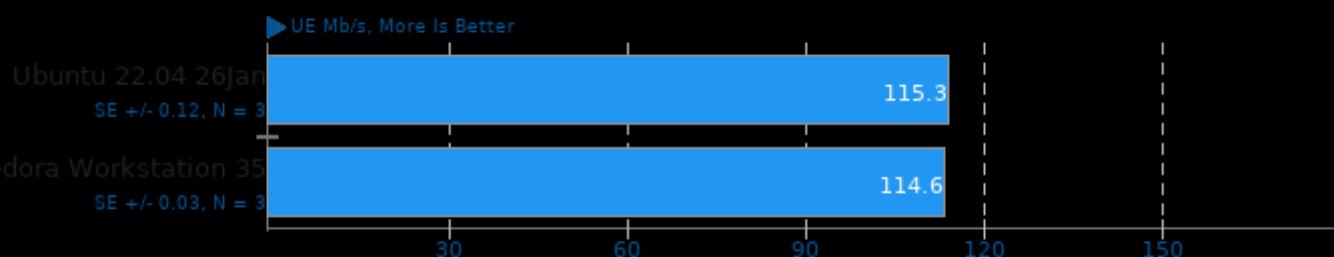
Test: 4G PHY_DL_Test 100 PRB MIMO 256-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 21.10

Test: 4G PHY_DL_Test 100 PRB MIMO 256-QAM

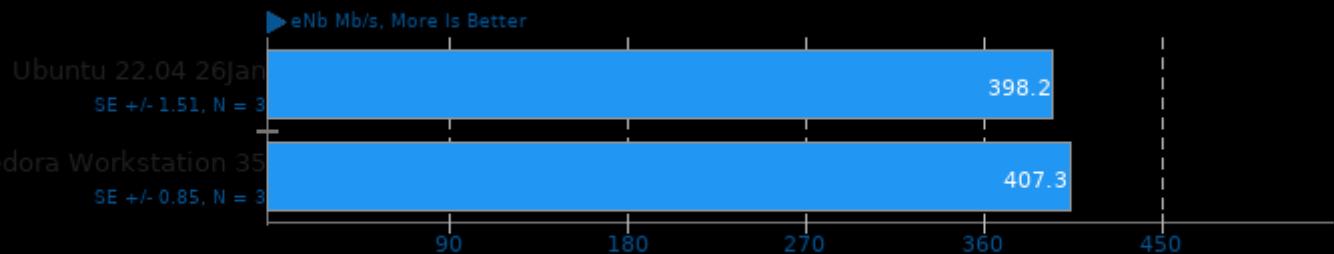


1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

Celeron G6900 Linux Comparison

srsRAN 21.10

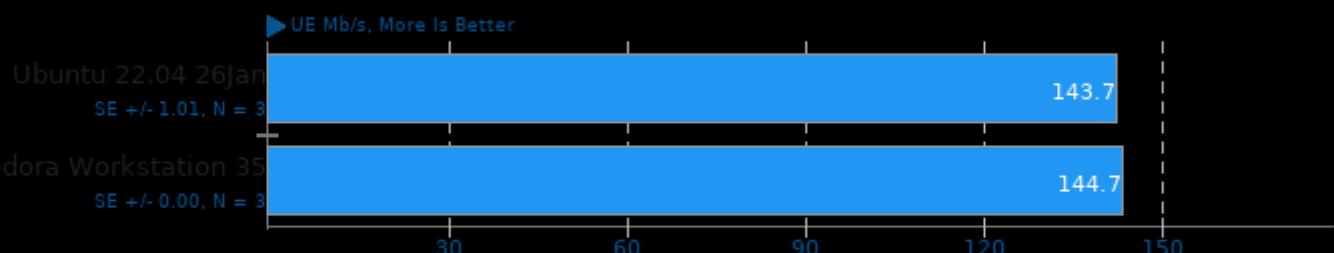
Test: 4G PHY_DL_Test 100 PRB SISO 256-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 21.10

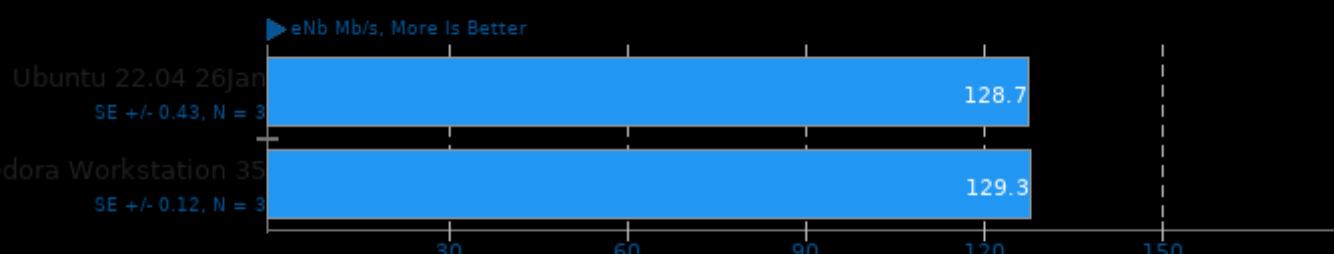
Test: 4G PHY_DL_Test 100 PRB SISO 256-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 21.10

Test: 5G PHY_DL_NR Test 52 PRB SISO 64-QAM

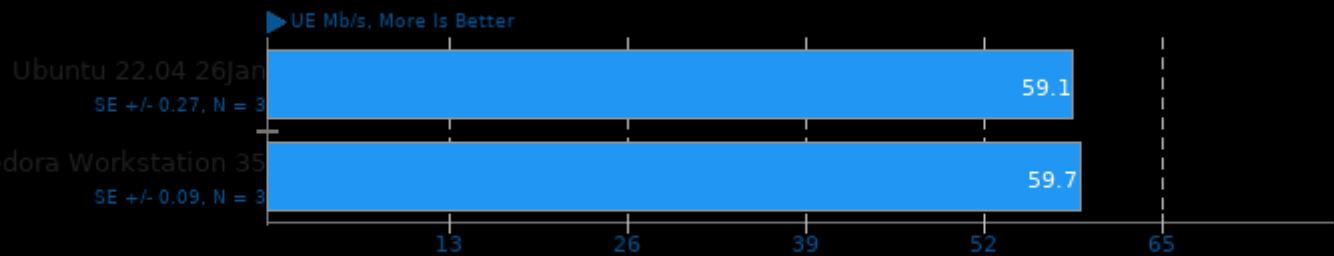


1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

Celeron G6900 Linux Comparison

srsRAN 21.10

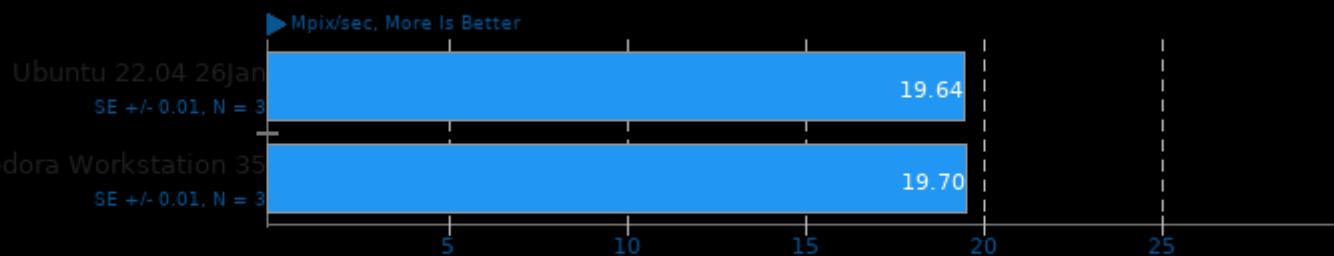
Test: 5G PHY_DL_NR Test 52 PRB SISO 64-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

LibRaw 0.20

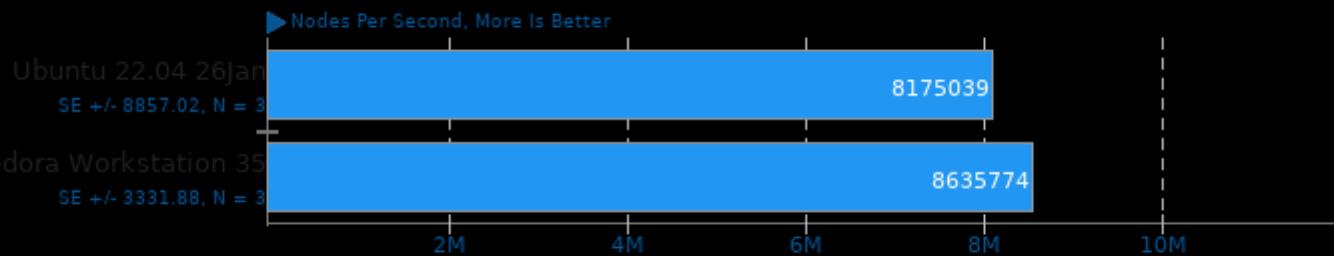
Post-Processing Benchmark



1. (CXX) g++ options: -O2 -fopenmp -ljpeg -lz -lm

Crafty 25.2

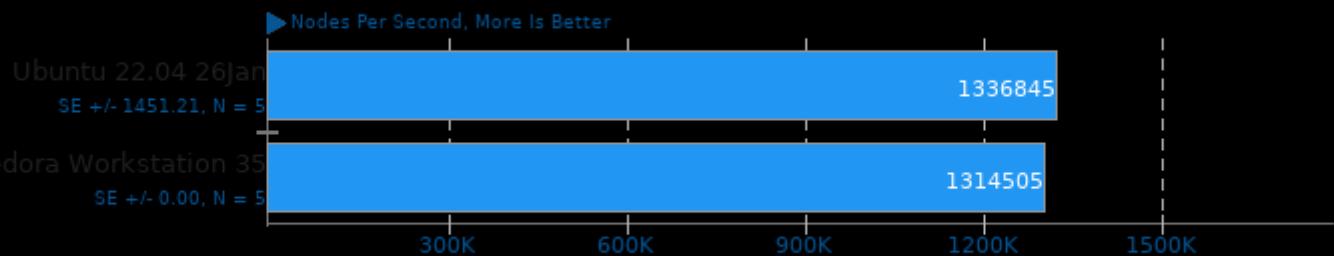
Elapsed Time



1. (CC) gcc options: -pthread -stdc++ -fprofile-use -lm

TSCP 1.81

AI Chess Performance

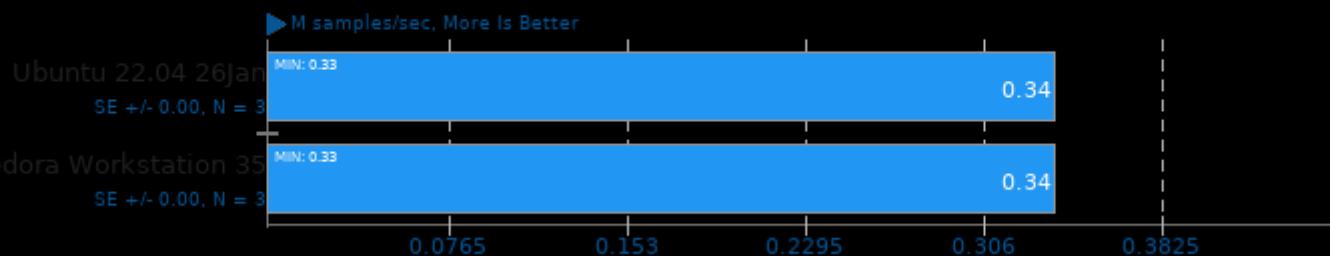


1. (CC) gcc options: -O3 -march=native

Celeron G6900 Linux Comparison

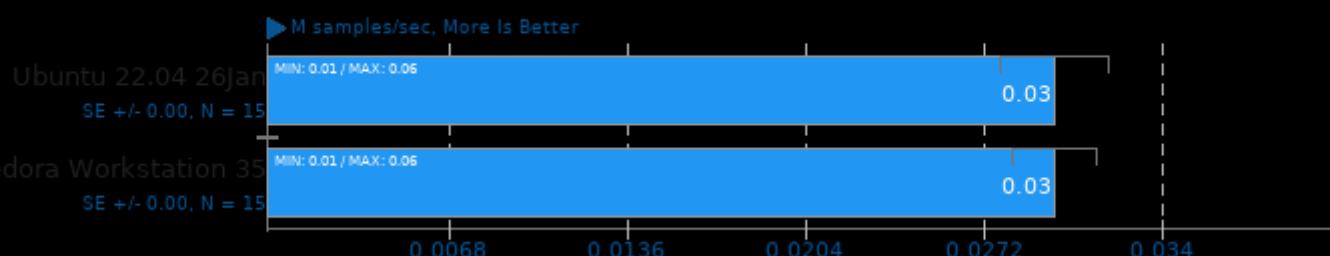
LuxCoreRender 2.6

Scene: DLSC - Acceleration: CPU



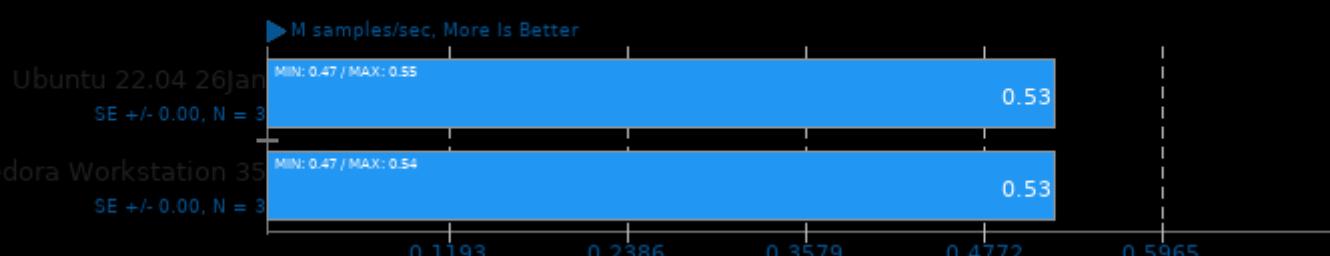
LuxCoreRender 2.6

Scene: Danish Mood - Acceleration: CPU



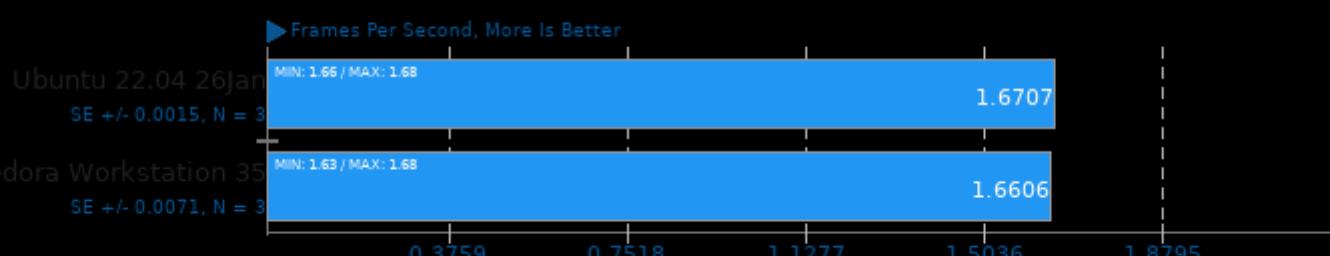
LuxCoreRender 2.6

Scene: Orange Juice - Acceleration: CPU



Embree 3.13

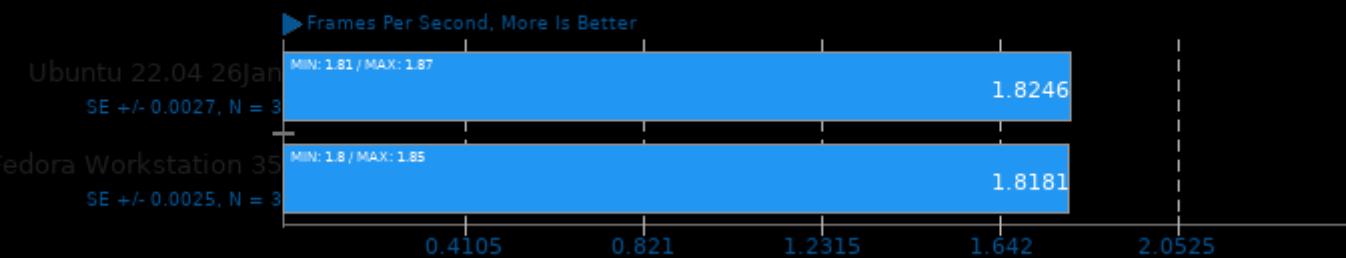
Binary: Pathtracer - Model: Crown



Celeron G6900 Linux Comparison

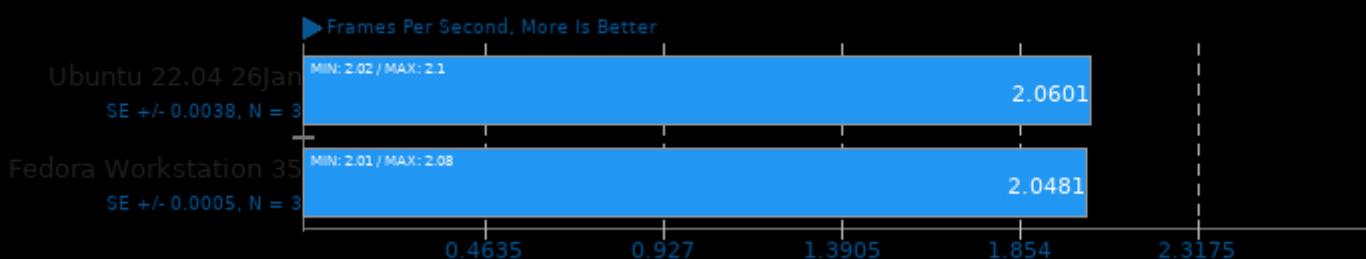
Embree 3.13

Binary: Pathtracer ISPC - Model: Crown



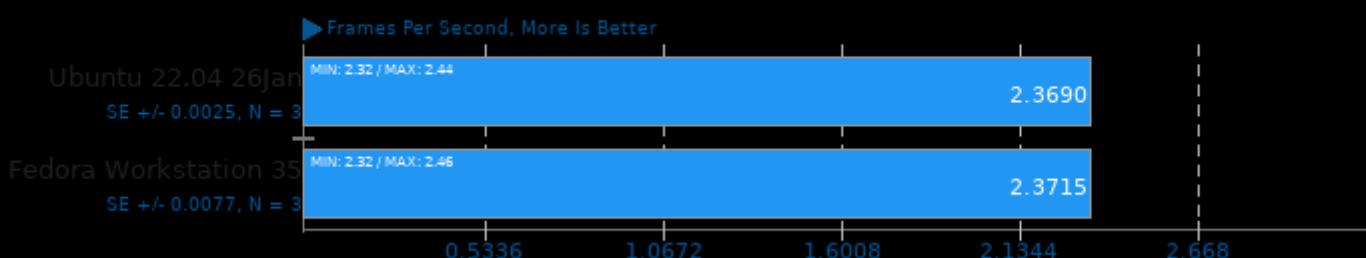
Embree 3.13

Binary: Pathtracer - Model: Asian Dragon



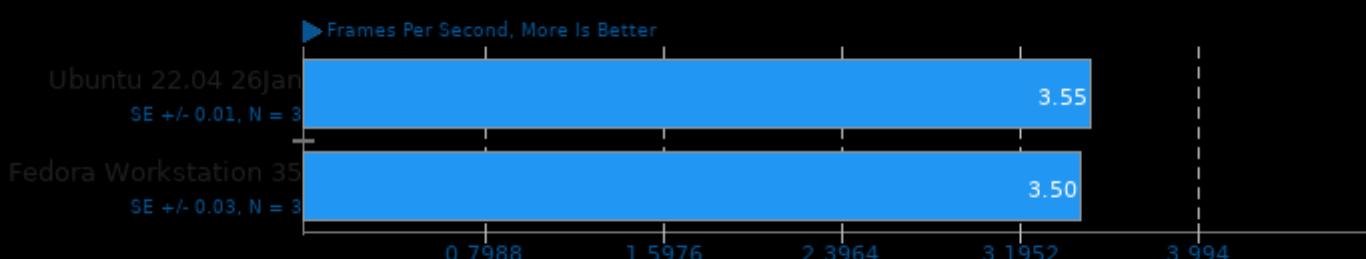
Embree 3.13

Binary: Pathtracer ISPC - Model: Asian Dragon



Kvazaar 2.1

Video Input: Bosphorus 4K - Video Preset: Very Fast

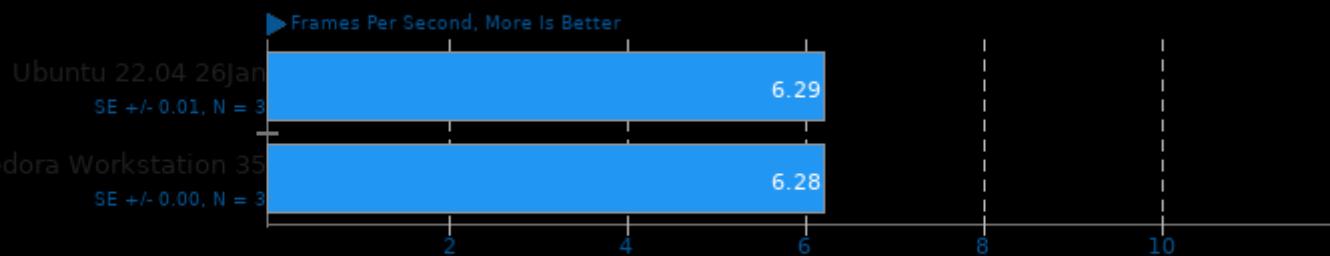


1. (CC) gcc options: -pthread -fno-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Celeron G6900 Linux Comparison

Kvazaar 2.1

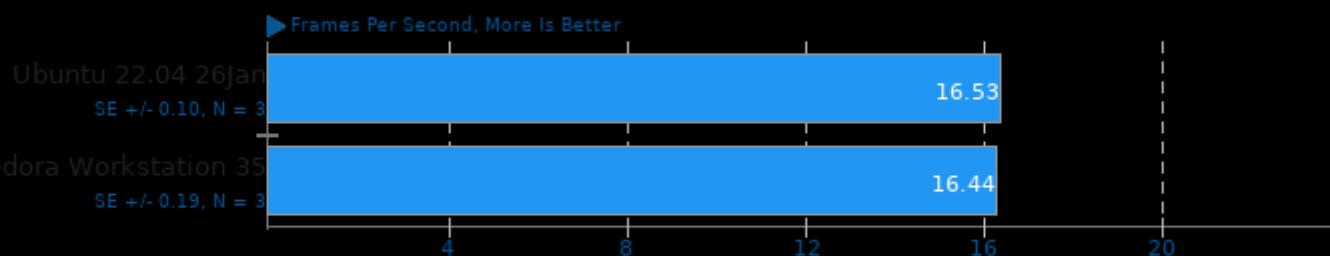
Video Input: Bosphorus 4K - Video Preset: Ultra Fast



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.1

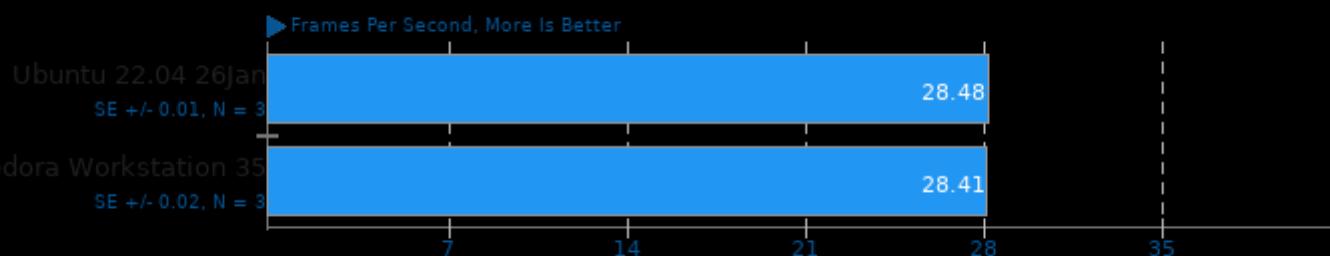
Video Input: Bosphorus 1080p - Video Preset: Very Fast



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.1

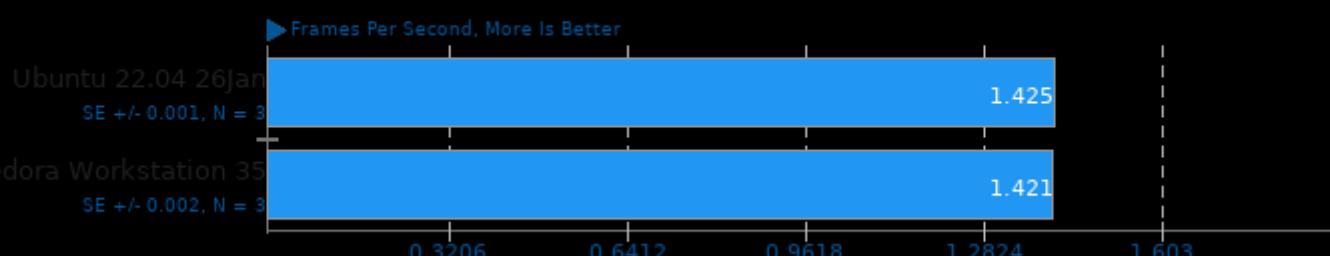
Video Input: Bosphorus 1080p - Video Preset: Ultra Fast



1. (CC) gcc options: -pthread -fthread-vectorize -visibility=hidden -O2 -lpthread -lm -lrt

rav1e 0.5

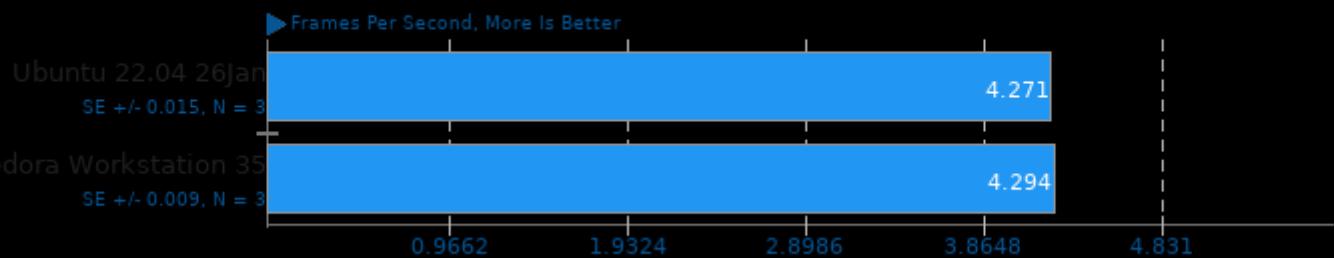
Speed: 6



Celeron G6900 Linux Comparison

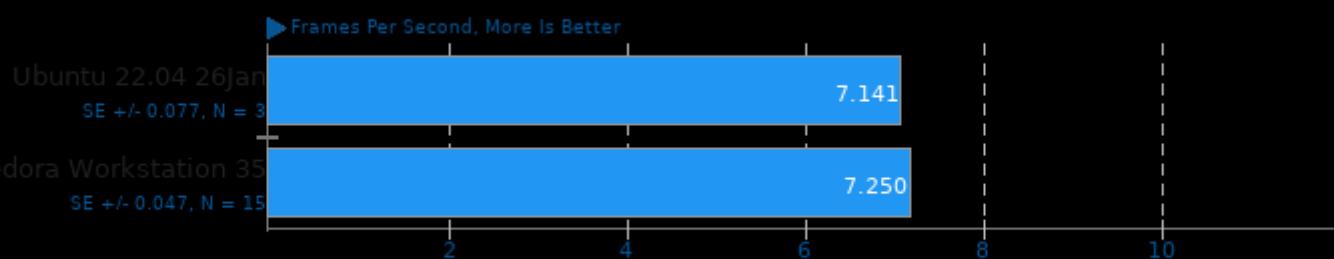
rav1e 0.5

Speed: 10



SVT-AV1 0.9

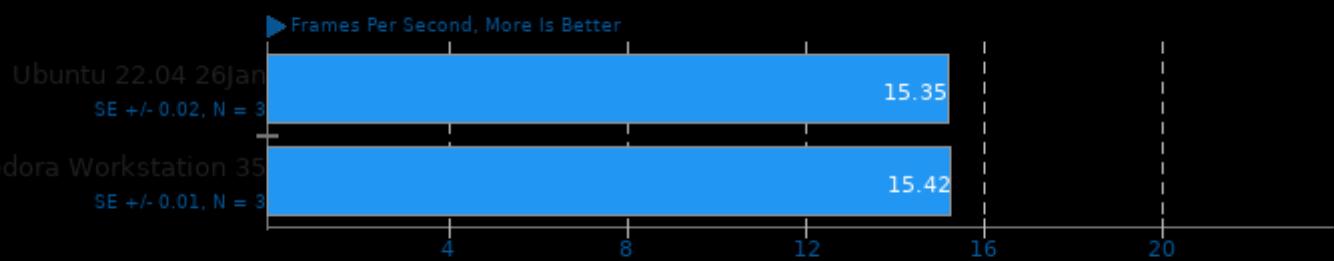
Encoder Mode: Preset 8 - Input: Bosphorus 4K



1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

SVT-AV1 0.9

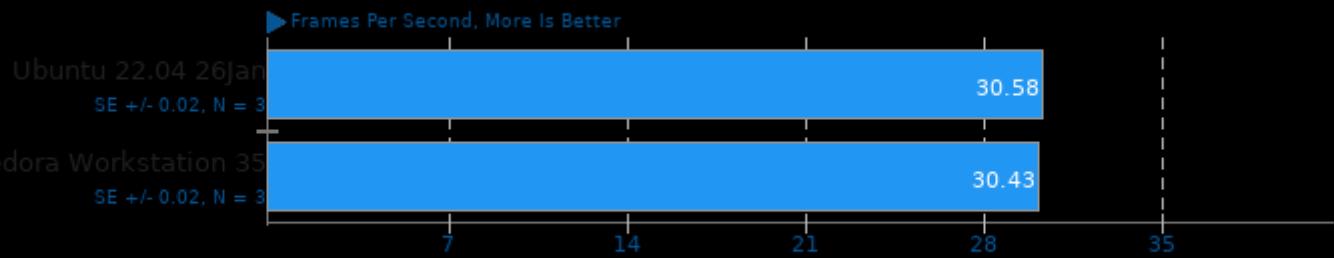
Encoder Mode: Preset 10 - Input: Bosphorus 4K



1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

SVT-AV1 0.9

Encoder Mode: Preset 12 - Input: Bosphorus 4K

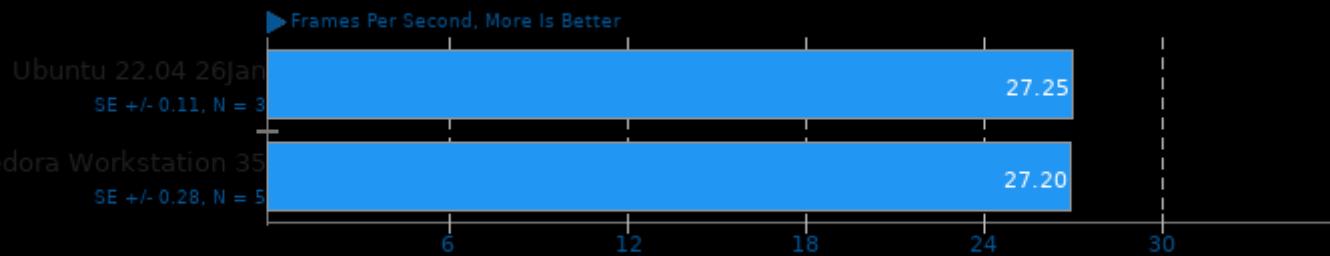


1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

Celeron G6900 Linux Comparison

SVT-AV1 0.9

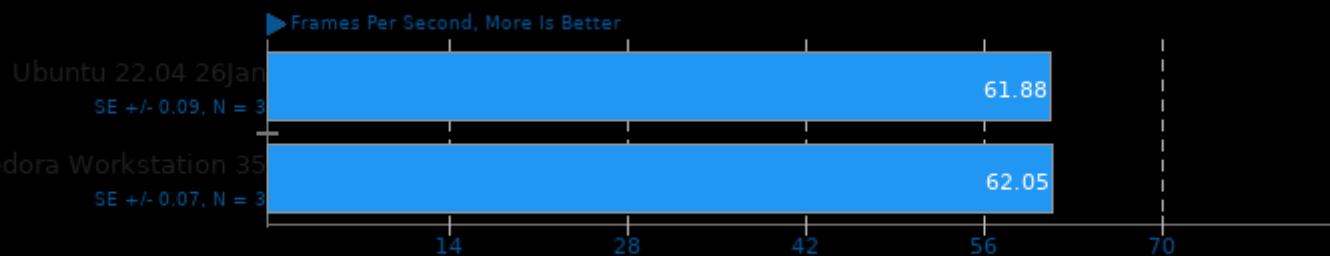
Encoder Mode: Preset 8 - Input: Bosphorus 1080p



1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

SVT-AV1 0.9

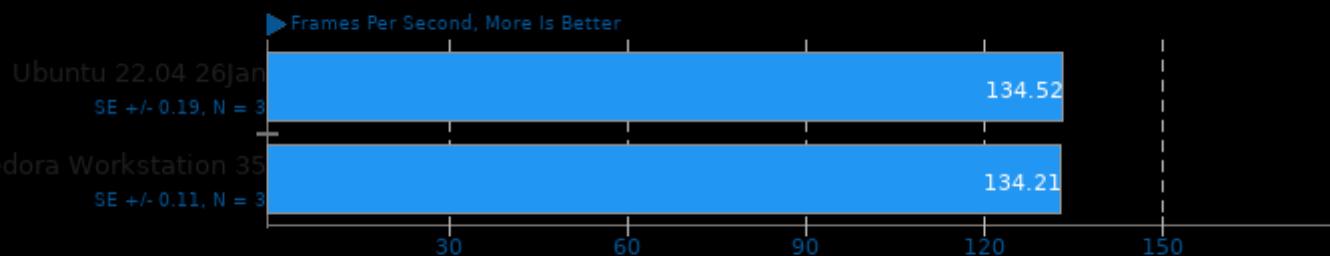
Encoder Mode: Preset 10 - Input: Bosphorus 1080p



1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

SVT-AV1 0.9

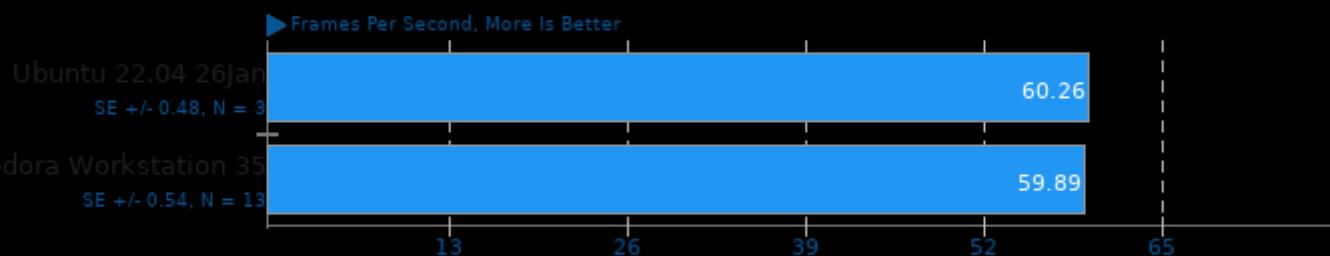
Encoder Mode: Preset 12 - Input: Bosphorus 1080p



1. (CXX) g++ options: -march=native -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

SVT-HEVC 1.5.0

Tuning: 10 - Input: Bosphorus 1080p

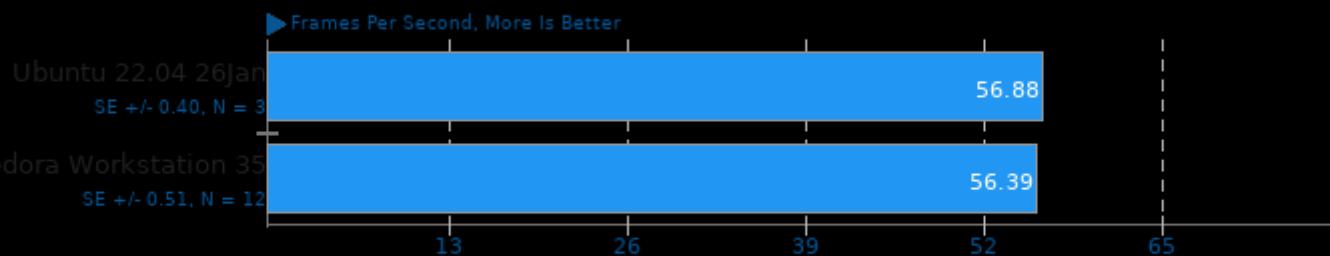


1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -lpthread -lrt

Celeron G6900 Linux Comparison

SVT-VP9 0.3

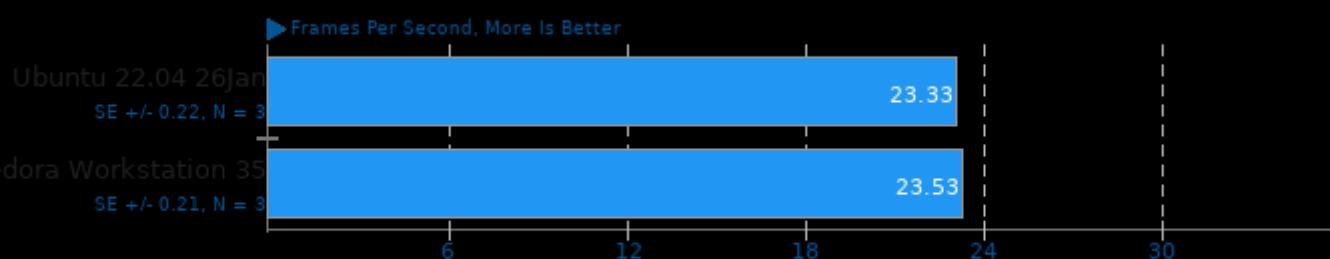
Tuning: VMAF Optimized - Input: Bosphorus 1080p



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

x264 2019-12-17

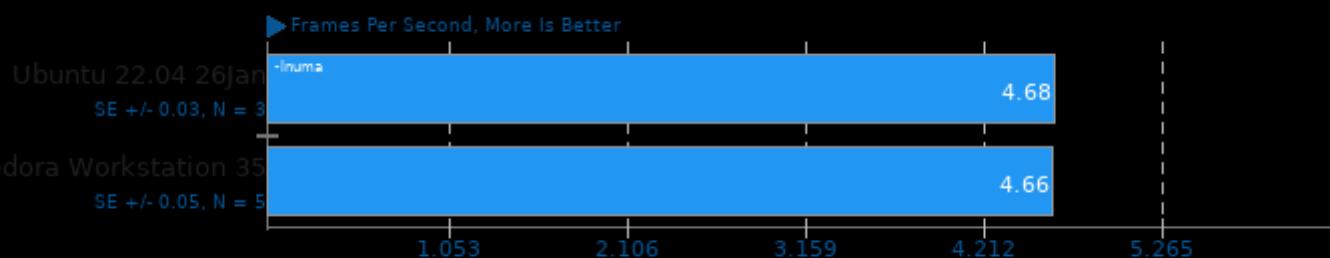
H.264 Video Encoding



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

x265 3.4

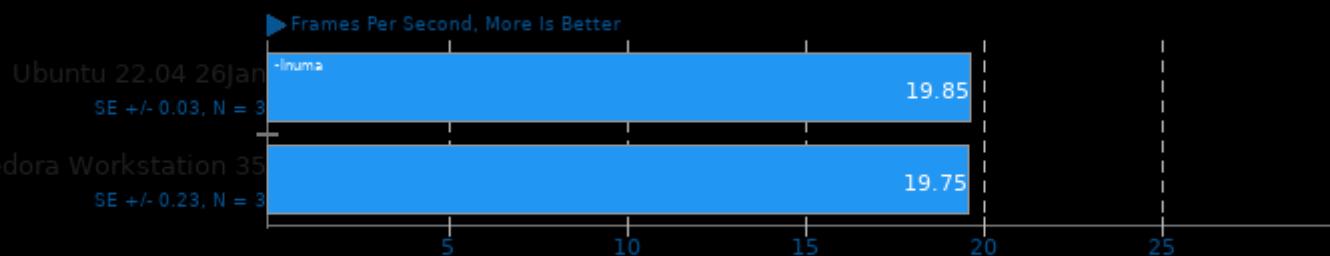
Video Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl

x265 3.4

Video Input: Bosphorus 1080p

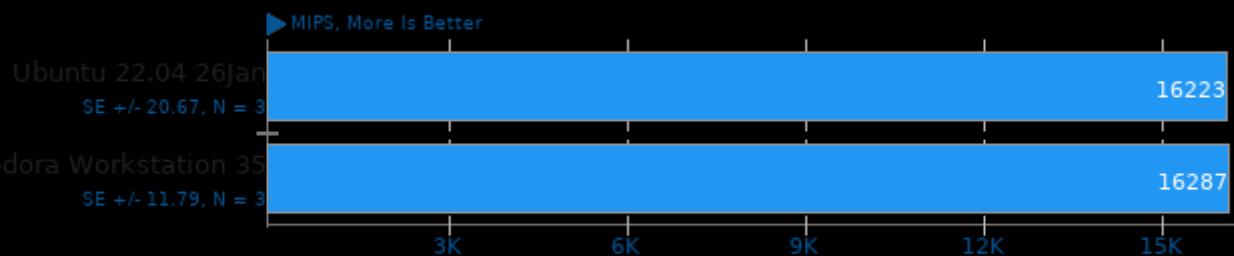


1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl

Celeron G6900 Linux Comparison

7-Zip Compression 21.06

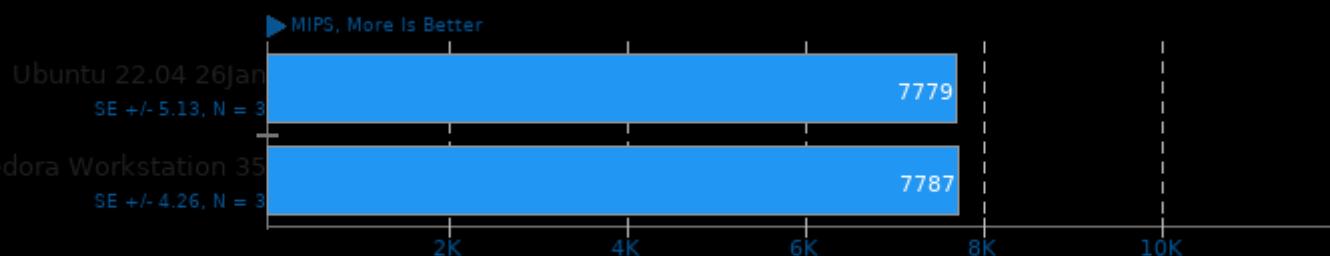
Test: Compression Rating



1. (CXX) g++ options: -lpthread -ldl -O2 -fPIC

7-Zip Compression 21.06

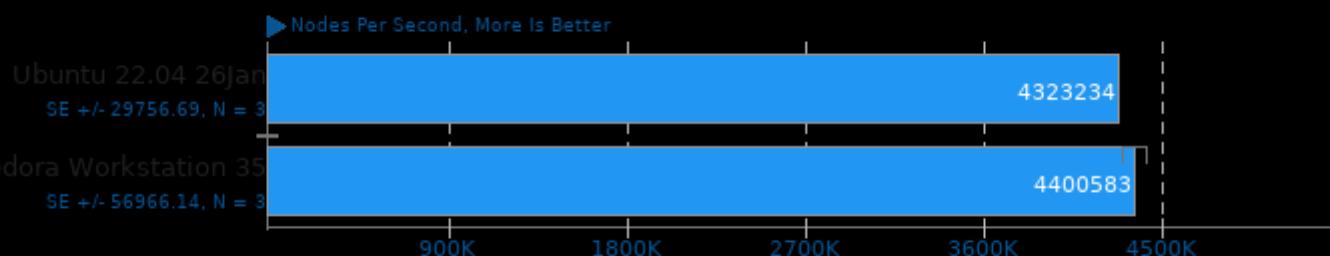
Test: Decompression Rating



1. (CXX) g++ options: -lpthread -ldl -O2 -fPIC

Stockfish 13

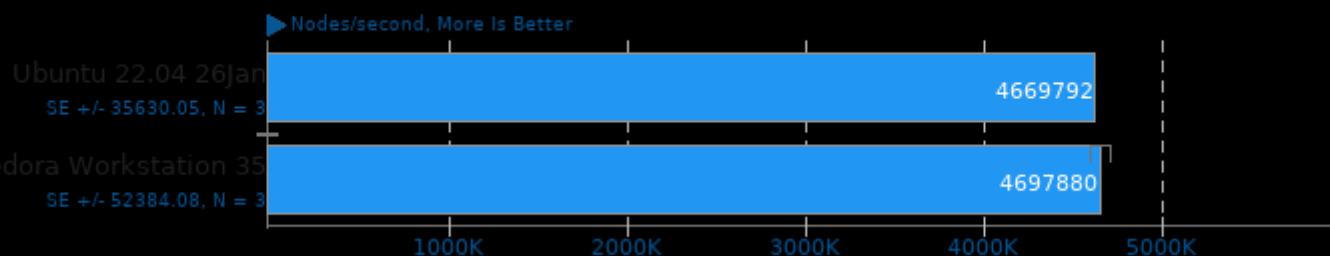
Total Time



1. (CXX) g++ options: -lgcov -m64 -lpthread -fno-exceptions -std=c++17 -fprofile-use -fno-peel-loops -fno-tracer -pedantic -O3 -msse -msse3 -mpopcnt -

asmFish 2018-07-23

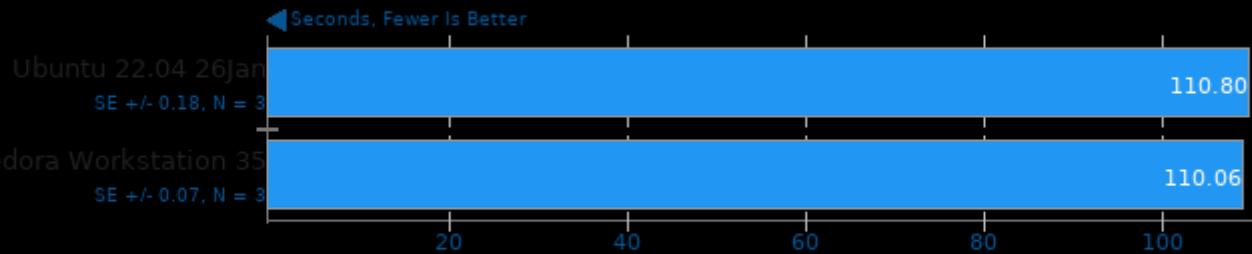
1024 Hash Memory, 26 Depth



Celeron G6900 Linux Comparison

libavif avifenc 0.9.0

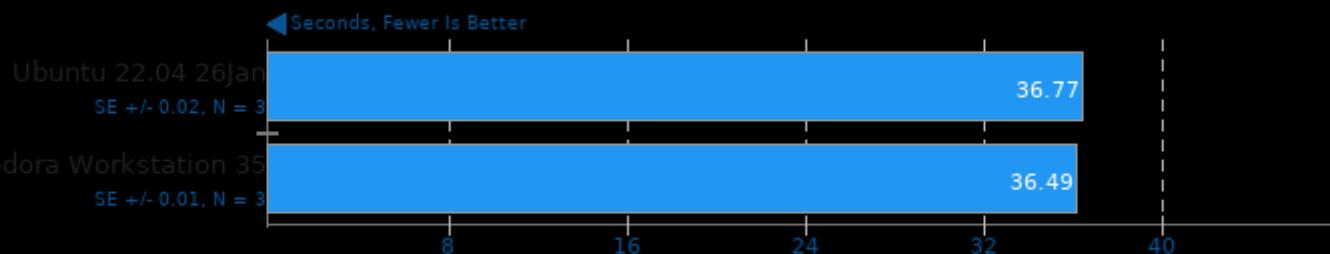
Encoder Speed: 2



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

libavif avifenc 0.9.0

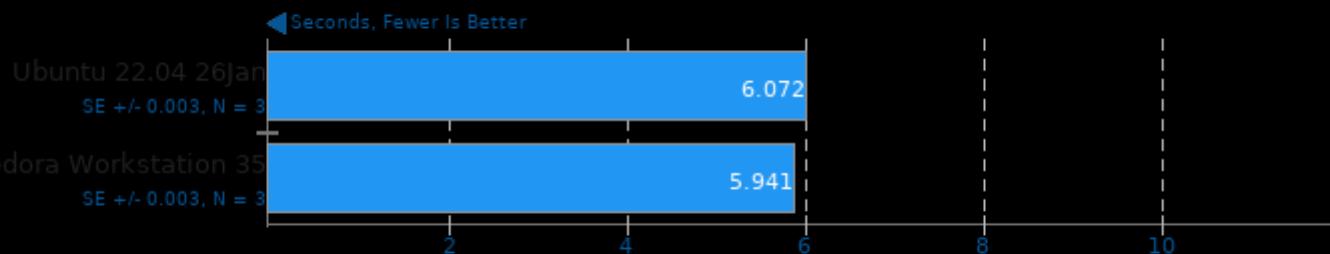
Encoder Speed: 6



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

libavif avifenc 0.9.0

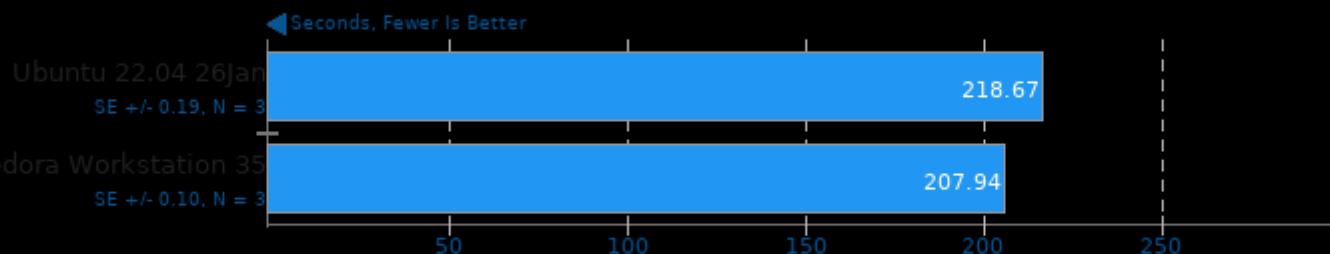
Encoder Speed: 10



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

libavif avifenc 0.9.0

Encoder Speed: 6, Lossless

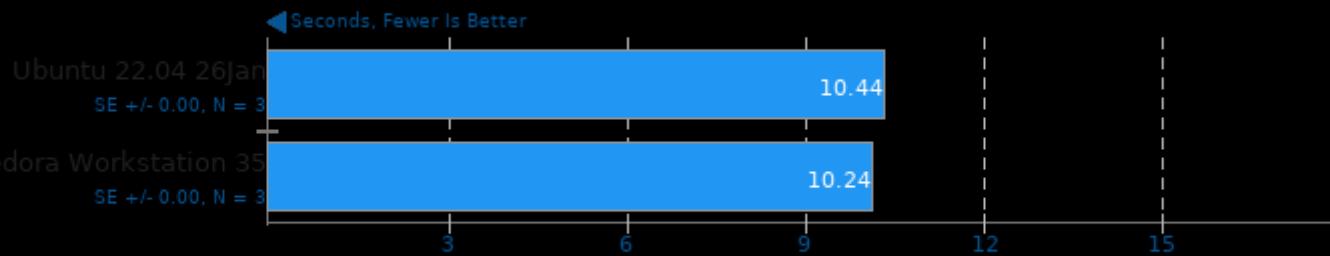


1. (CXX) g++ options: -O3 -fPIC -lm

Celeron G6900 Linux Comparison

libavif avifenc 0.9.0

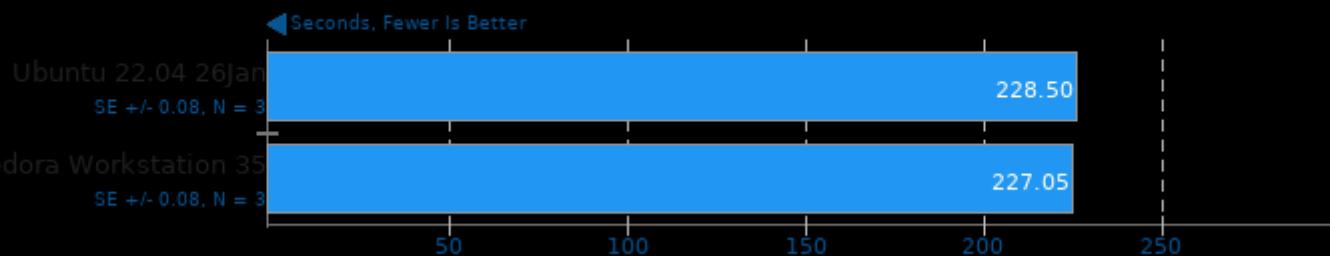
Encoder Speed: 10, Lossless



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

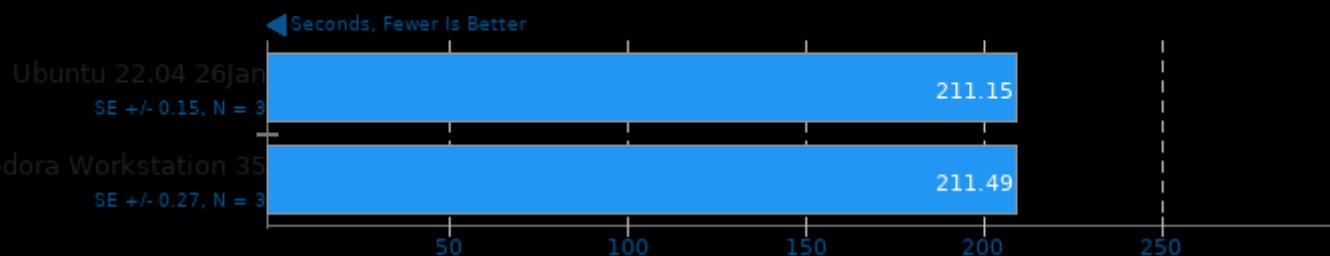
Timed FFmpeg Compilation 4.4

Time To Compile



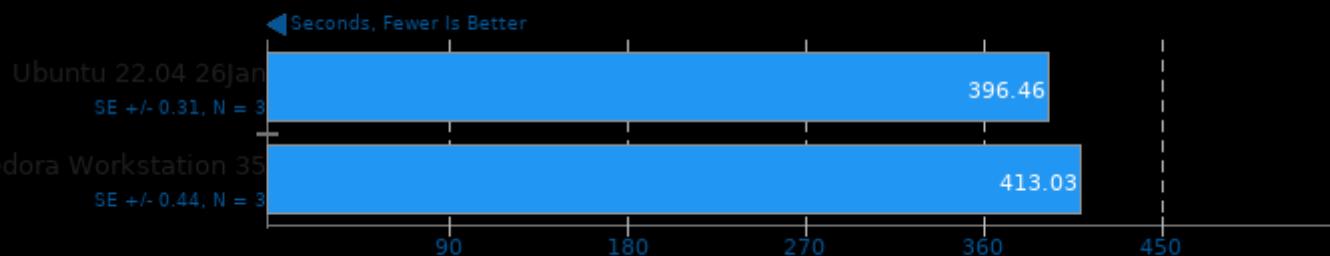
Timed GDB GNU Debugger Compilation 10.2

Time To Compile



Timed Linux Kernel Compilation 5.16

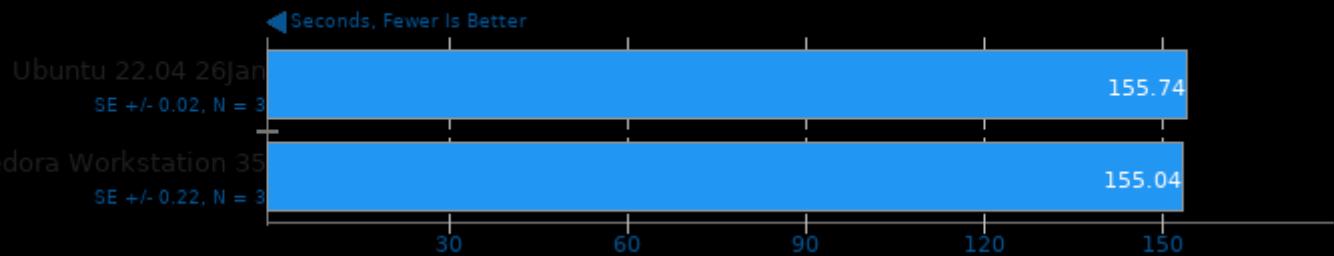
Build: defconfig



Celeron G6900 Linux Comparison

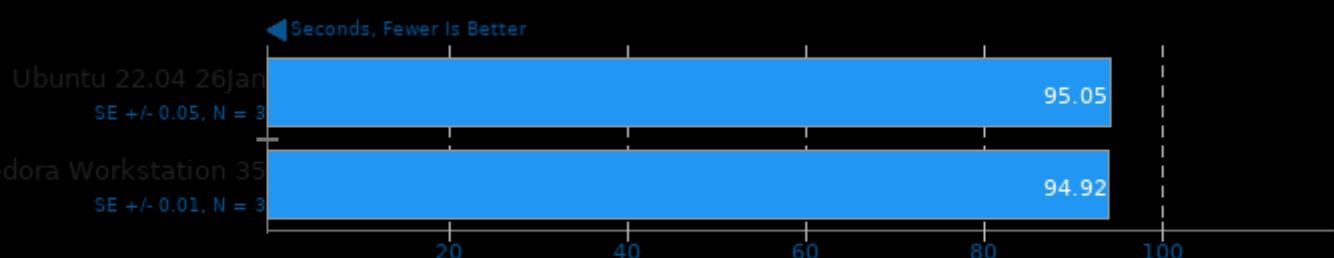
Timed MPlayer Compilation 1.4

Time To Compile



Primesieve 7.7

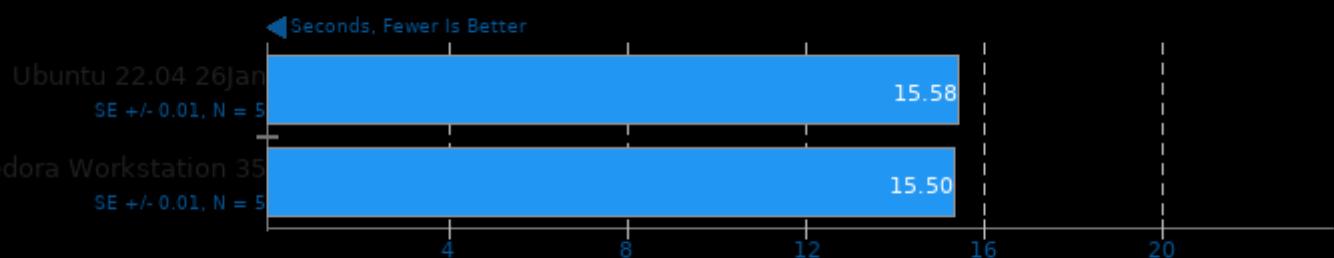
1e12 Prime Number Generation



l1. (CXX) g++ options: -O3

FLAC Audio Encoding 1.3.3

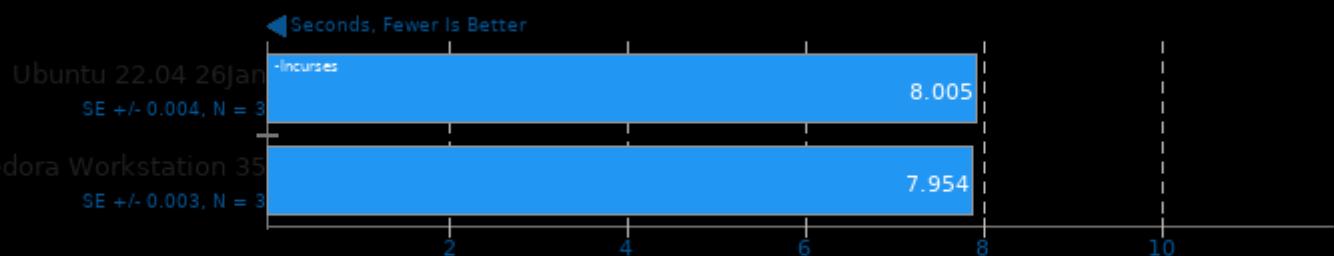
WAV To FLAC



l1. (CXX) g++ options: -fvisibility=hidden -logg -lm

LAME MP3 Encoding 3.100

WAV To MP3

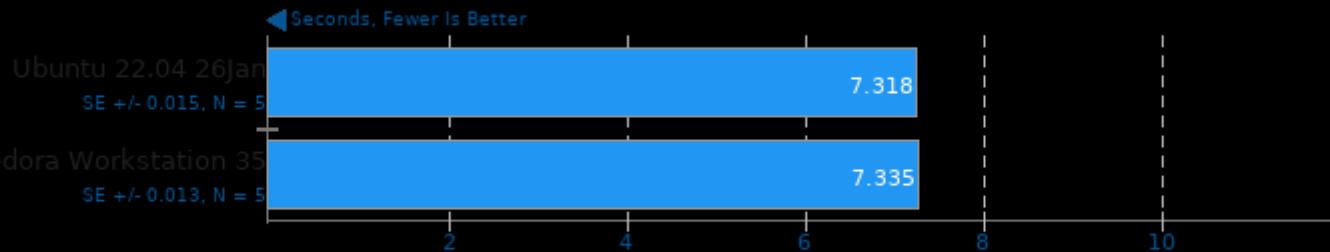


l1. (CC) gcc options: -O3 -ffast-math -funroll-loops -fschedule-insns2 -fbranch-count-reg -fforce-addr -pipe -lm

Celeron G6900 Linux Comparison

Opus Codec Encoding 1.3.1

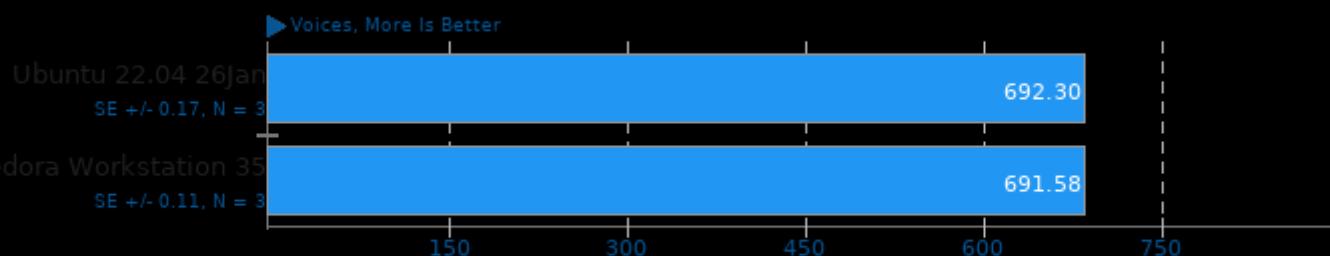
WAV To Opus Encode



1. (CXX) g++ options: -fvisibility=hidden -logg -lm

Google SynthMark 20201109

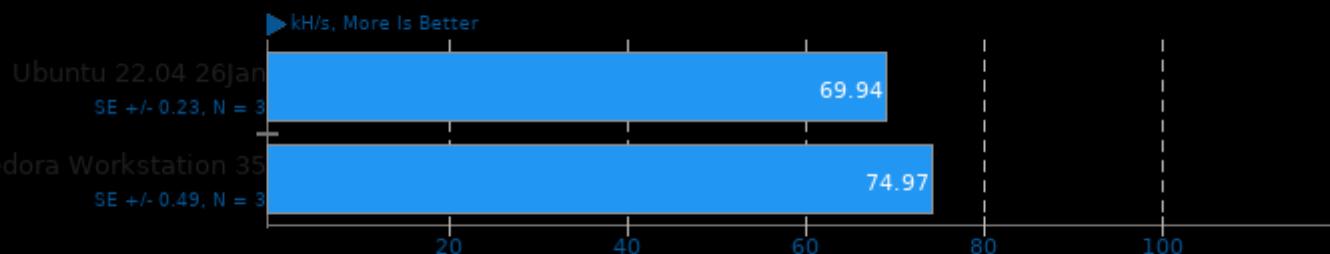
Test: VoiceMark_100



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

Cpuminer-Opt 3.18

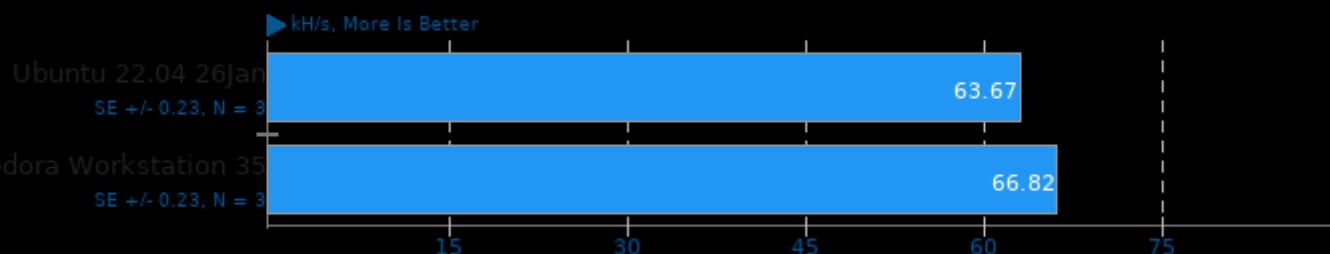
Algorithm: Magi



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

Algorithm: x25x

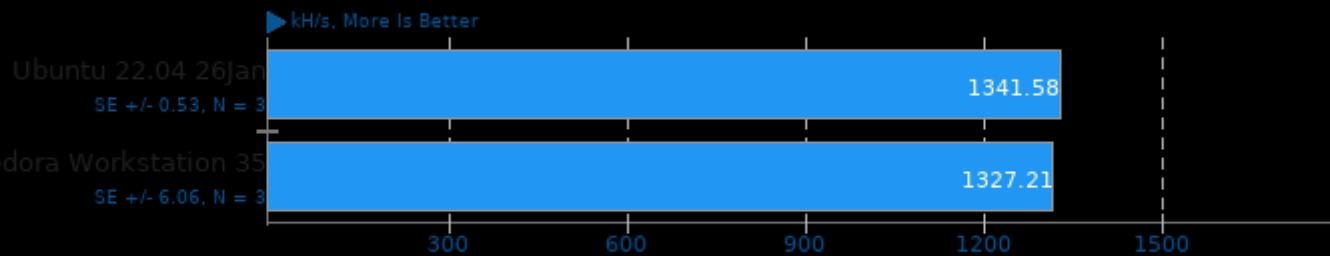


1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Celeron G6900 Linux Comparison

Cpuminer-Opt 3.18

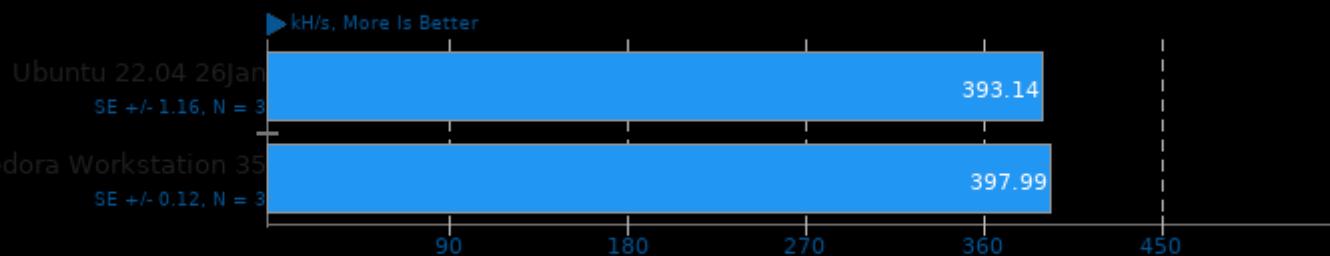
Algorithm: Deepcoin



1. (CXX) g++ options: -O2 -curl -lz -pthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

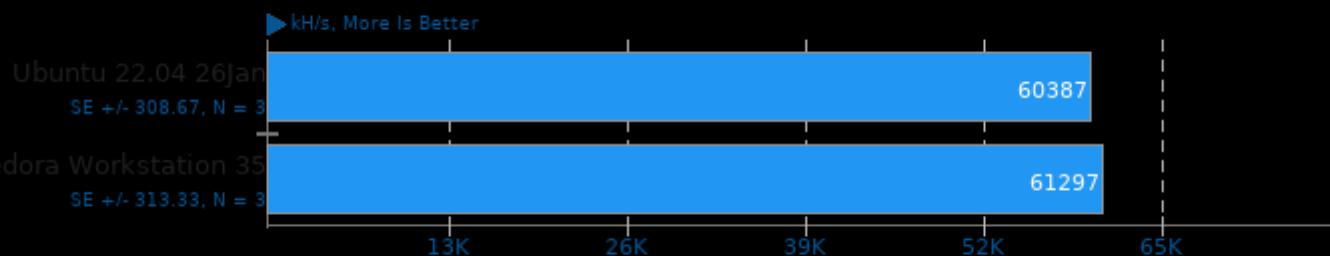
Algorithm: Ringcoin



1. (CXX) g++ options: -O2 -curl -lz -pthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

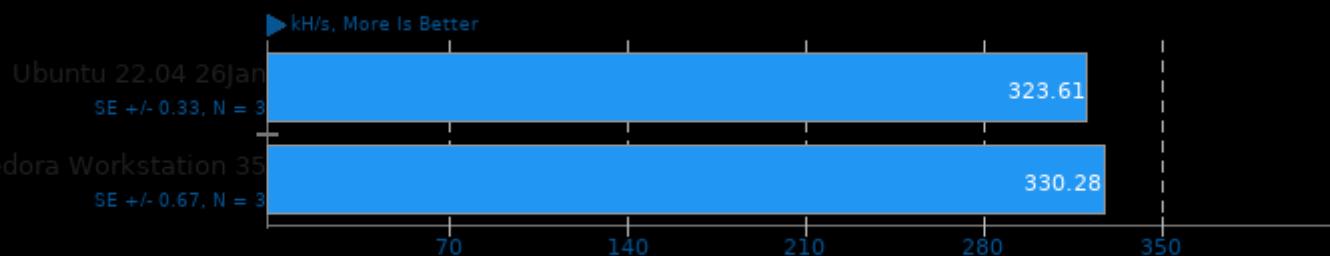
Algorithm: Blake-2 S



1. (CXX) g++ options: -O2 -curl -lz -pthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

Algorithm: Garlicoin

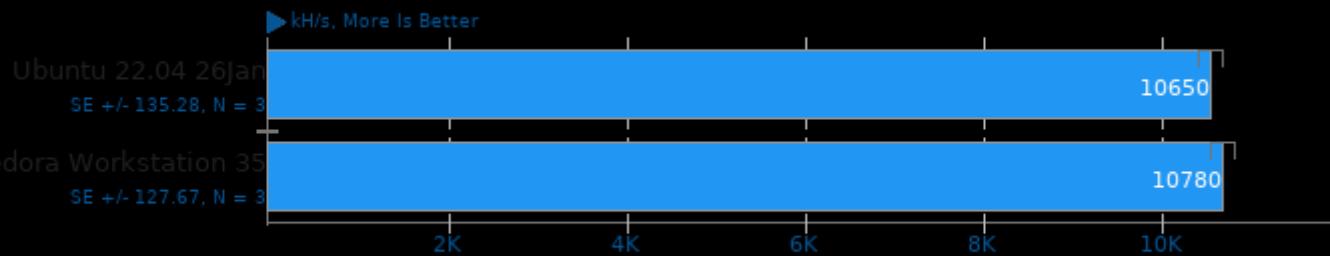


1. (CXX) g++ options: -O2 -curl -lz -pthread -lssl -lcrypto -lgmp

Celeron G6900 Linux Comparison

Cpuminer-Opt 3.18

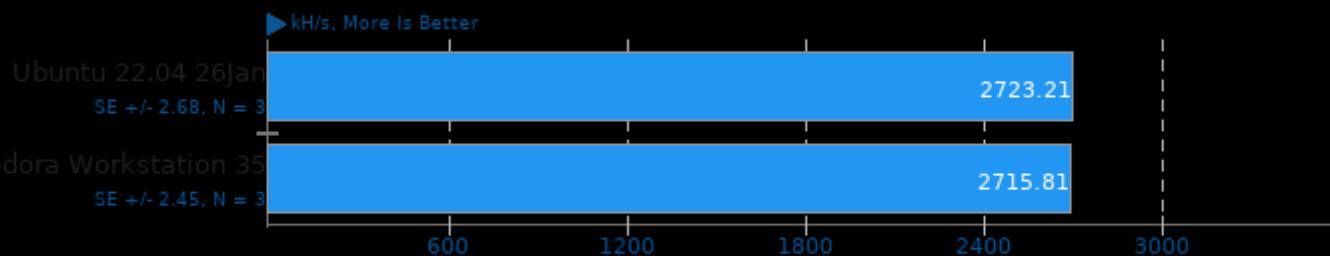
Algorithm: Skeincoin



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

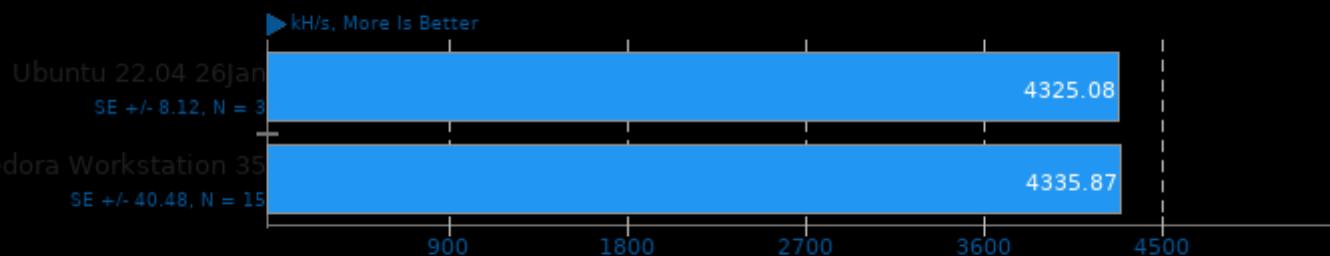
Algorithm: Myriad-Groestl



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

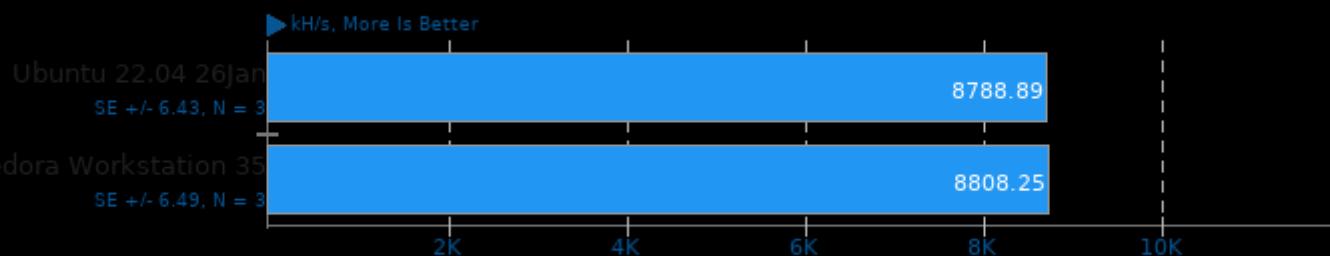
Algorithm: LBC, LBRY Credits



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

Algorithm: Quad SHA-256, Pyrite

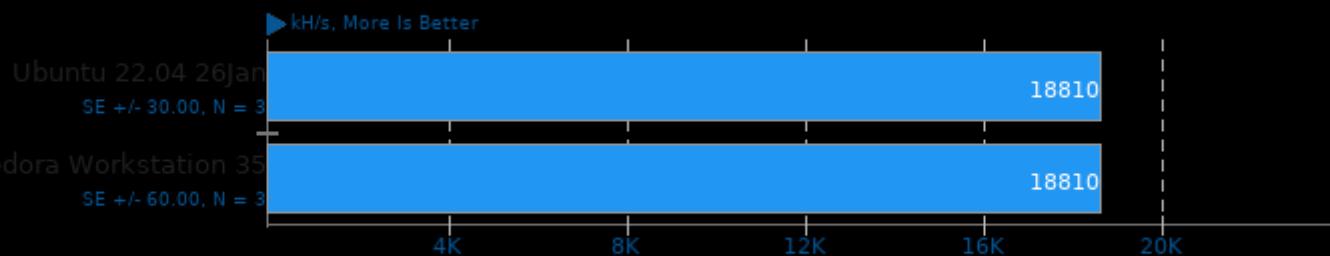


1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Celeron G6900 Linux Comparison

Cpuminer-Opt 3.18

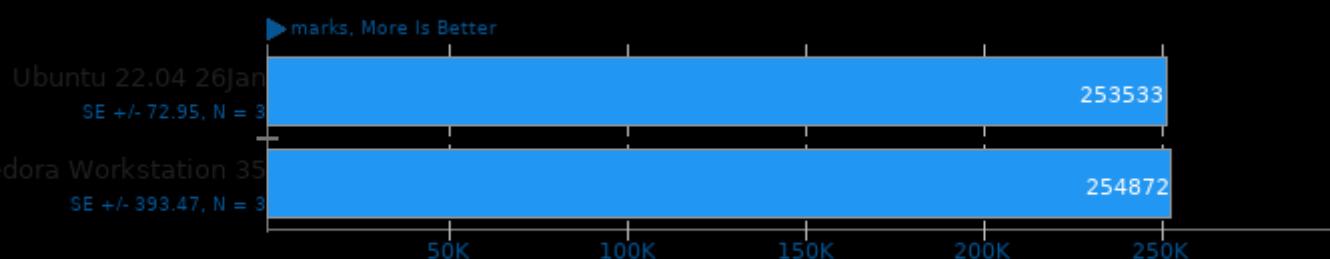
Algorithm: Triple SHA-256, Onecoin



1. (CXX) g++ options: -O2 -curl -lz -pthread -lssl -lcrypto -lgmp

SecureMark 1.0.4

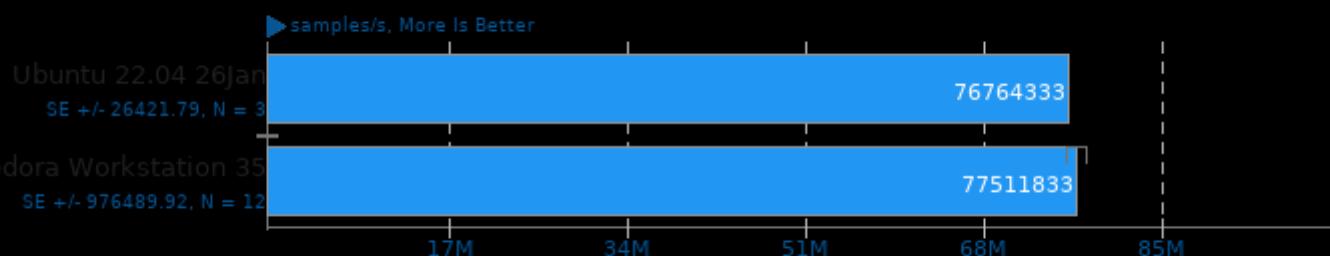
Benchmark: SecureMark-TLS



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

Liquid-DSP 2021.01.31

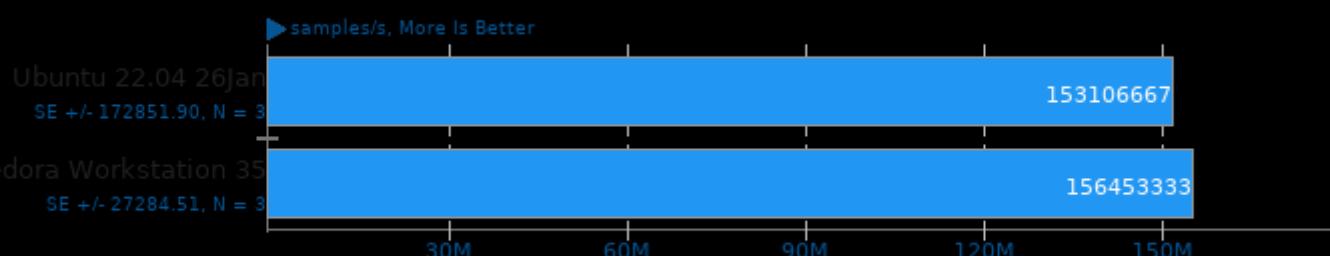
Threads: 1 - Buffer Length: 256 - Filter Length: 57



1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

Liquid-DSP 2021.01.31

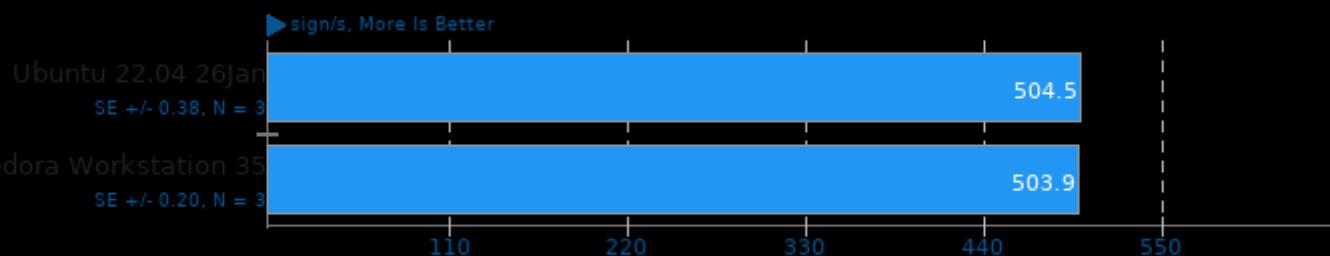
Threads: 2 - Buffer Length: 256 - Filter Length: 57



1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

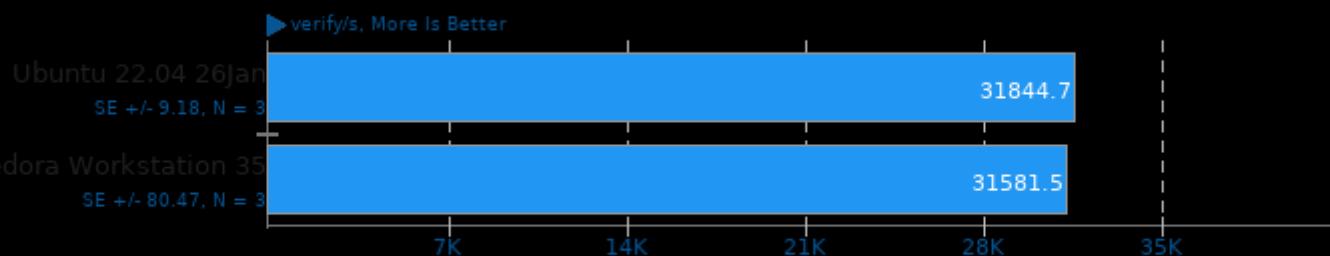
Celeron G6900 Linux Comparison

OpenSSL



1. Ubuntu 22.04 26Jan: OpenSSL 3.0.1 14 Dec 2021 (Library: OpenSSL 3.0.1 14 Dec 2021)
 2. Fedora Workstation 35: OpenSSL 1.1.1l FIPS 24 Aug 2021

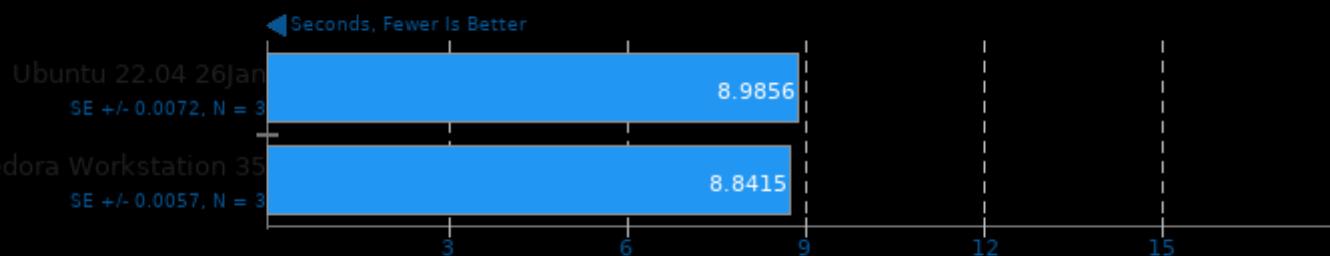
OpenSSL



1. Ubuntu 22.04 26Jan: OpenSSL 3.0.1 14 Dec 2021 (Library: OpenSSL 3.0.1 14 Dec 2021)
 2. Fedora Workstation 35: OpenSSL 1.1.1l FIPS 24 Aug 2021

ASTC Encoder 3.2

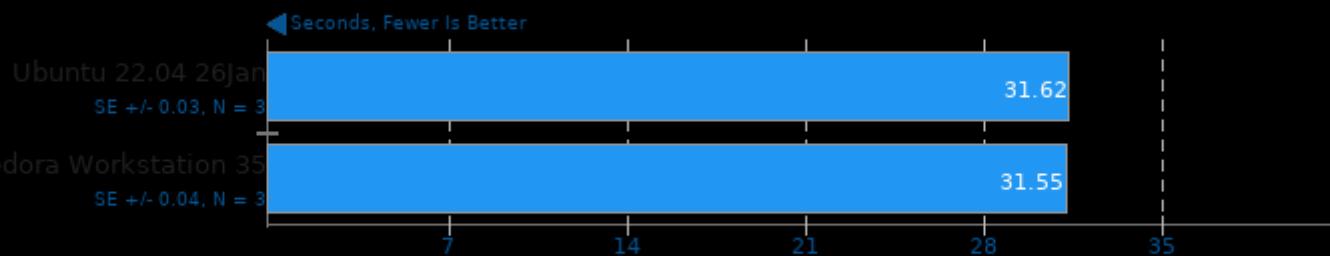
Preset: Medium



1. (CXX) g++ options: -O3 -fno -pthread

ASTC Encoder 3.2

Preset: Thorough

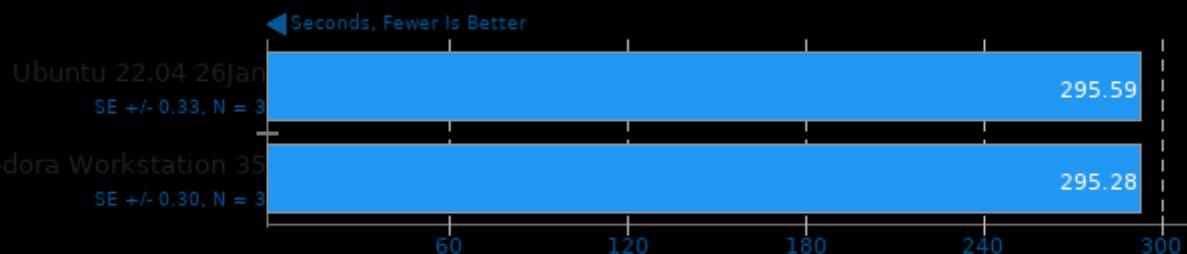


1. (CXX) g++ options: -O3 -fno -pthread

Celeron G6900 Linux Comparison

ASTC Encoder 3.2

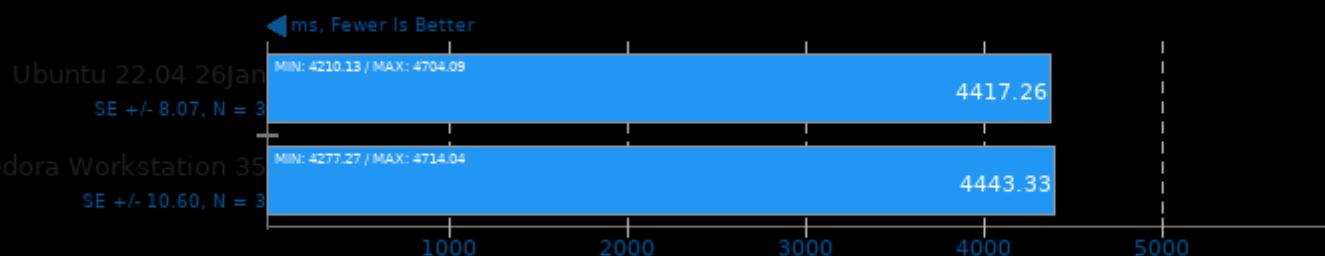
Preset: Exhaustive



1. (CXX) g++ options: -O3 -fno -pthread

TNN 0.3

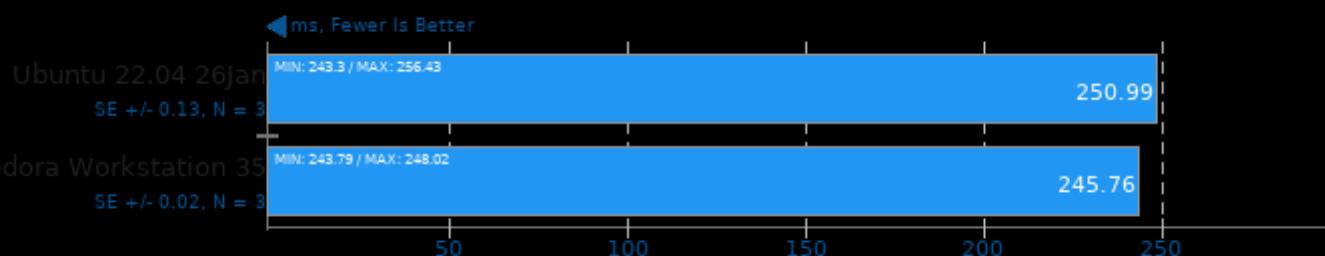
Target: CPU - Model: DenseNet



1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -fvisibility=default -O3 -rdynamic -ldl

TNN 0.3

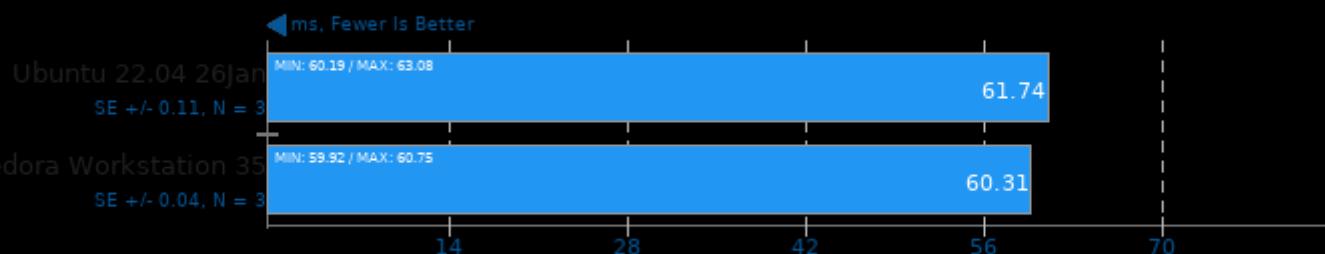
Target: CPU - Model: MobileNet v2



1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -fvisibility=default -O3 -rdynamic -ldl

TNN 0.3

Target: CPU - Model: SqueezeNet v2

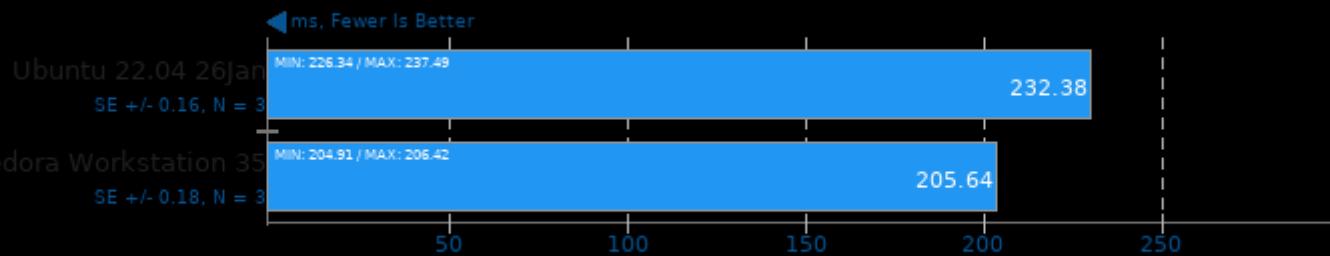


1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -fvisibility=default -O3 -rdynamic -ldl

Celeron G6900 Linux Comparison

TNN 0.3

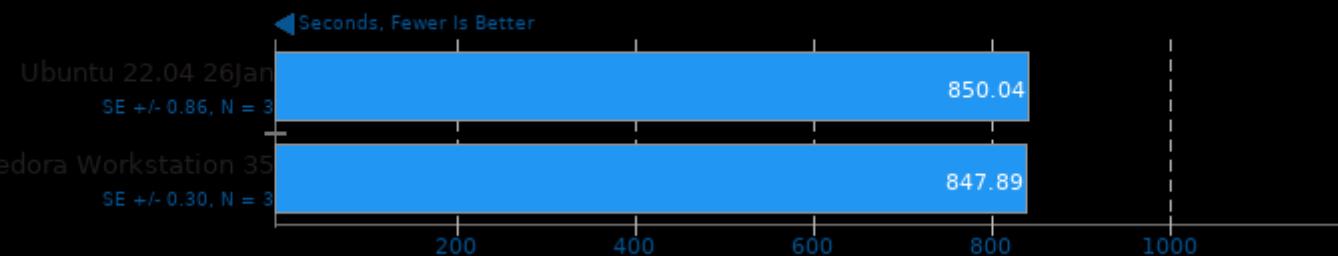
Target: CPU - Model: SqueezeNet v1.1



1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -fvisibility=default -O3 -rdynamic -ldl

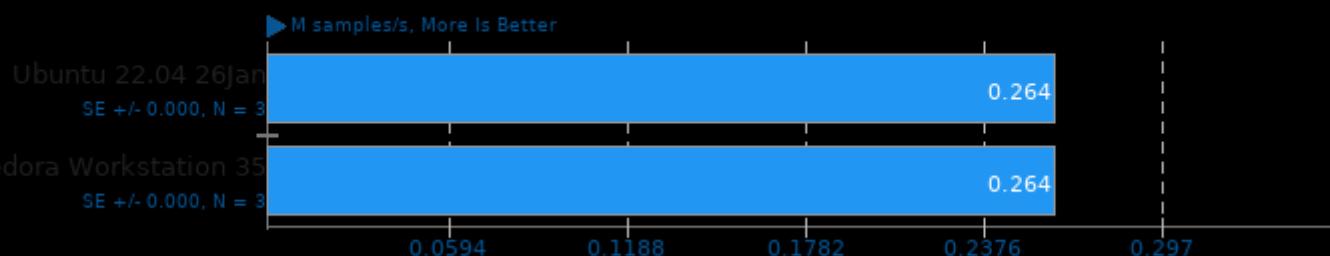
Blender 3.0

Blend File: BMW27 - Compute: CPU-Only



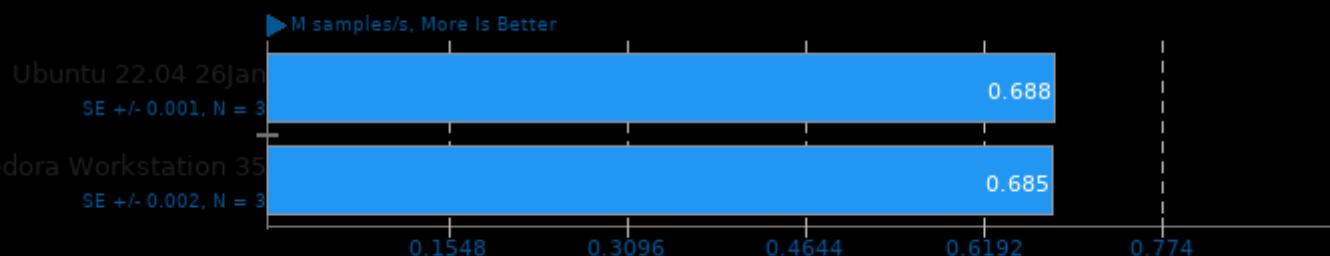
IndigoBench 4.4

Acceleration: CPU - Scene: Bedroom



IndigoBench 4.4

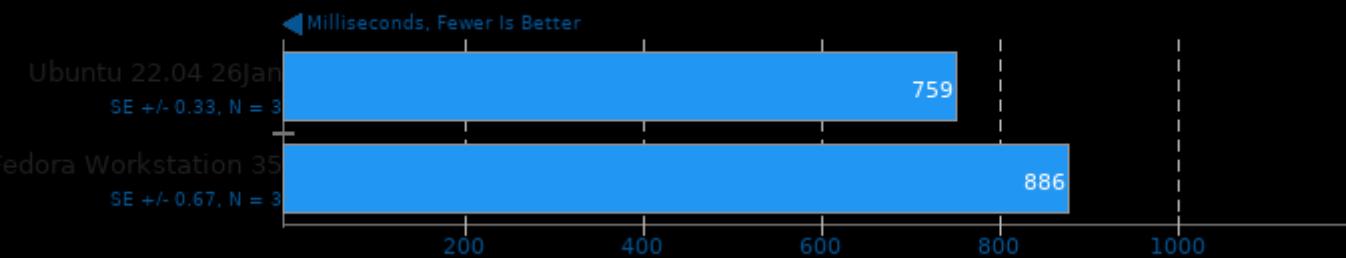
Acceleration: CPU - Scene: Supercar



Celeron G6900 Linux Comparison

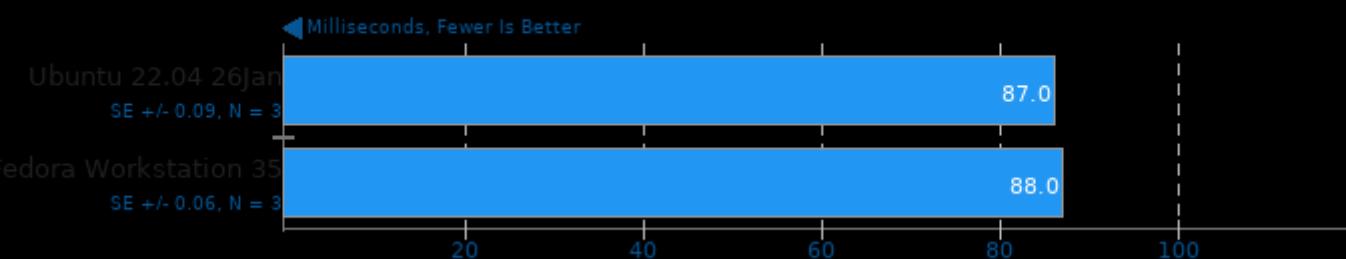
PyBench 2018-02-16

Total For Average Test Times



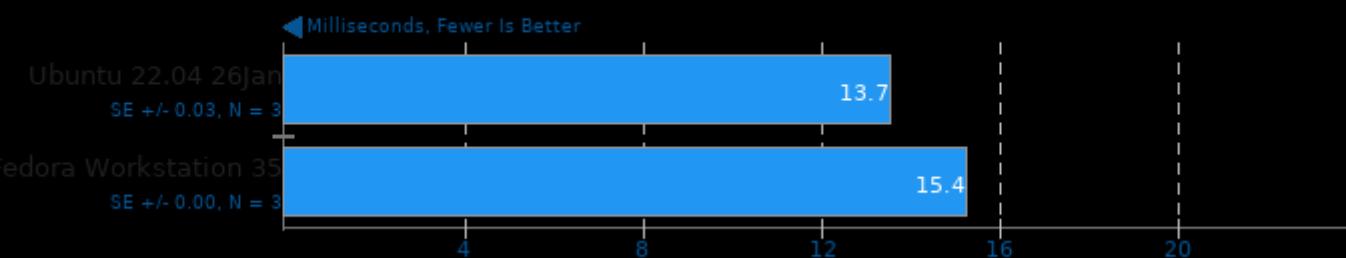
PyPerformance 1.0.0

Benchmark: float



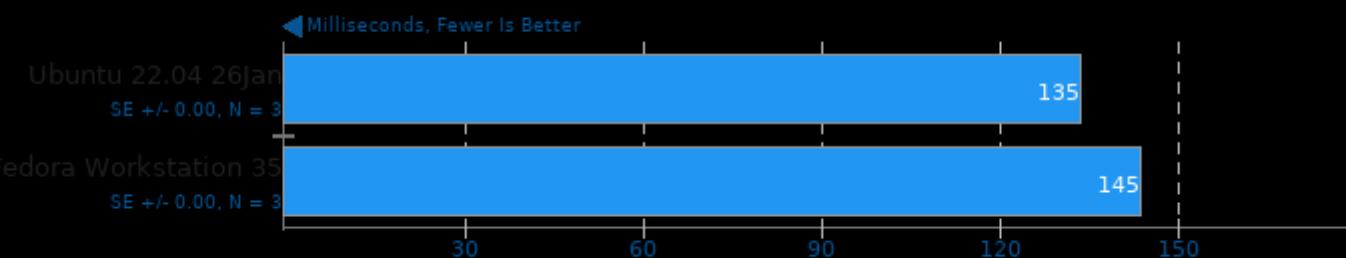
PyPerformance 1.0.0

Benchmark: pathlib



PyPerformance 1.0.0

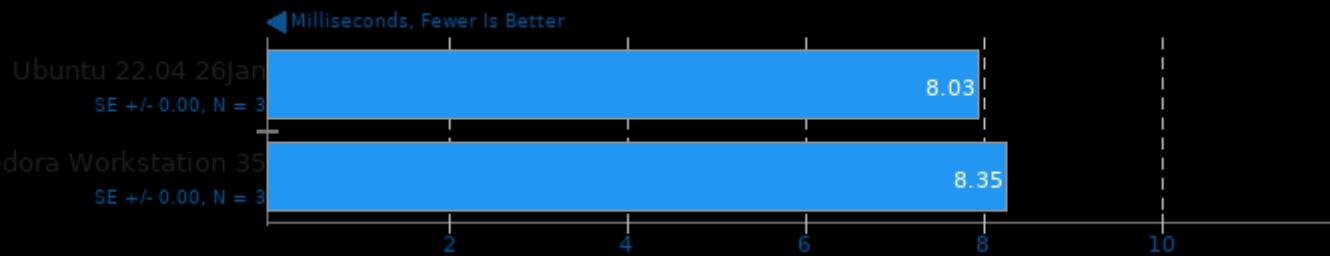
Benchmark: regex_compile



Celeron G6900 Linux Comparison

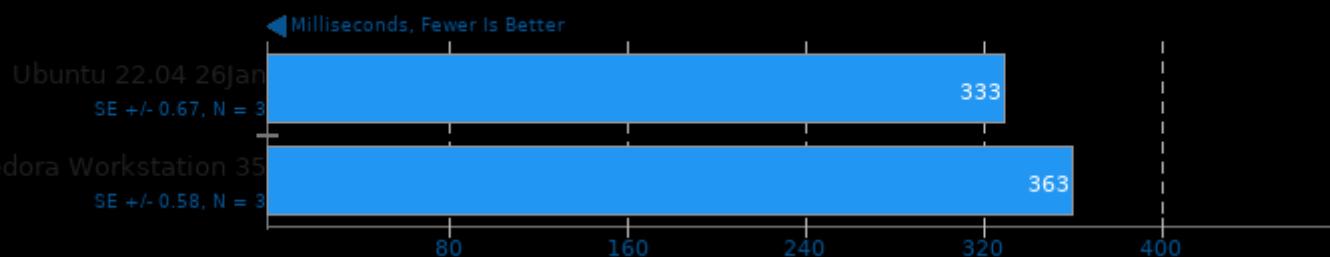
PyPerformance 1.0.0

Benchmark: python_startup



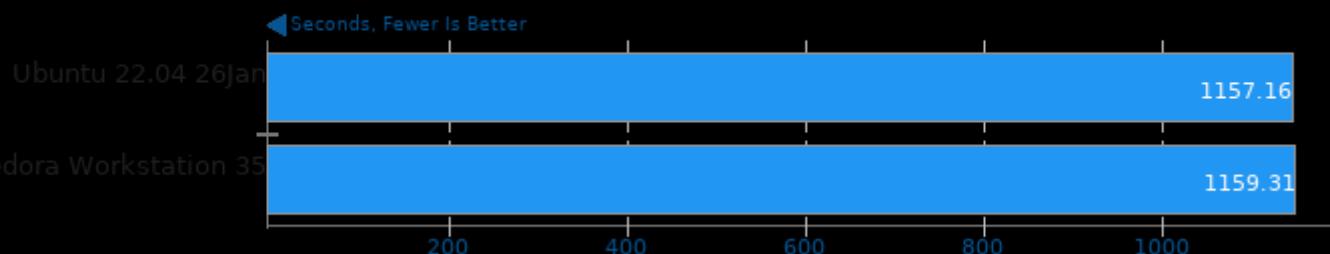
PyPerformance 1.0.0

Benchmark: pickle_pure_python



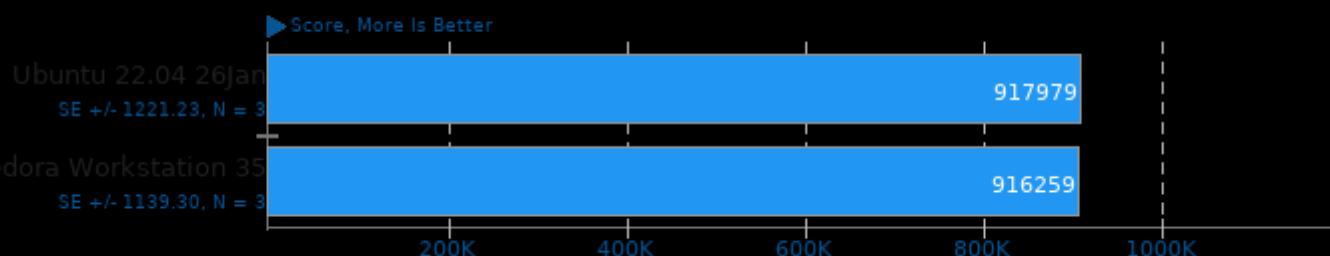
Appleseed 2.0 Beta

Scene: Material Tester



PHPBench 0.8.1

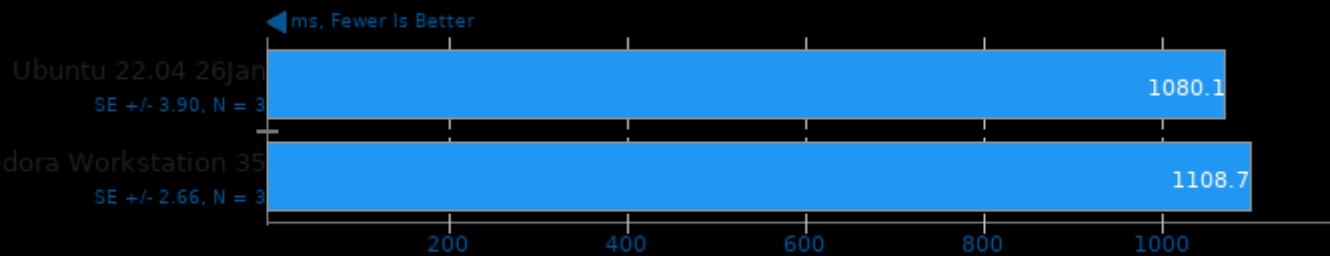
PHP Benchmark Suite



Celeron G6900 Linux Comparison

Selenium

Benchmark: Kraken - Browser: Firefox

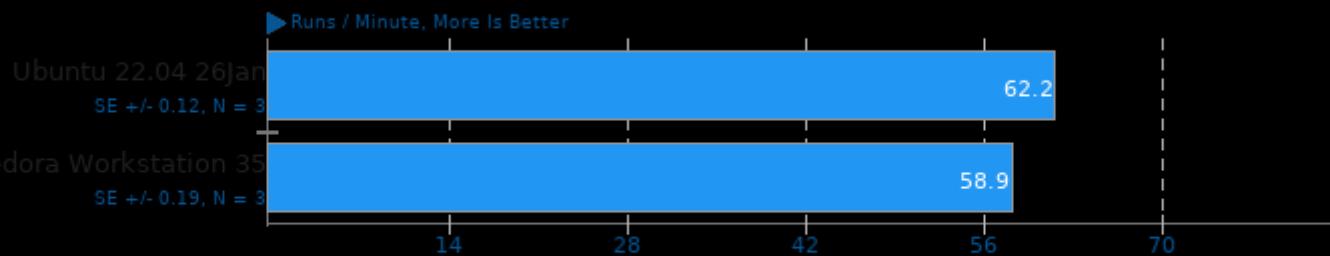


1. Ubuntu 22.04 26Jan: firefox 96.0.2

2. Fedora Workstation 35: firefox 96.0

Selenium

Benchmark: StyleBench - Browser: Firefox

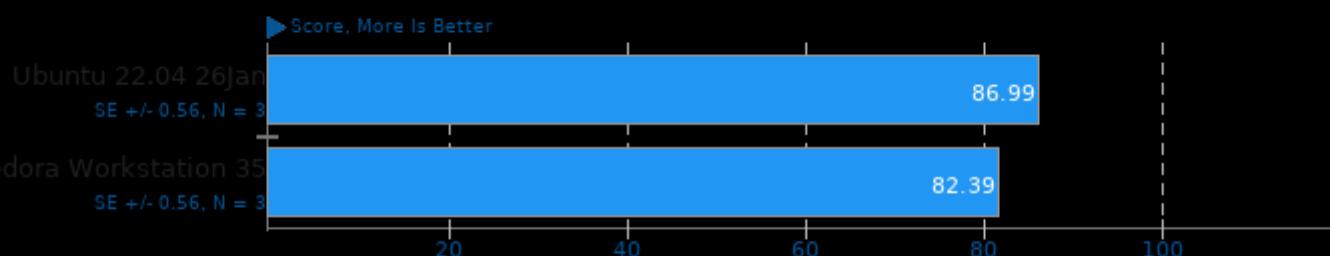


1. Ubuntu 22.04 26Jan: firefox 96.0.2

2. Fedora Workstation 35: firefox 96.0

Selenium

Benchmark: Jetstream 2 - Browser: Firefox



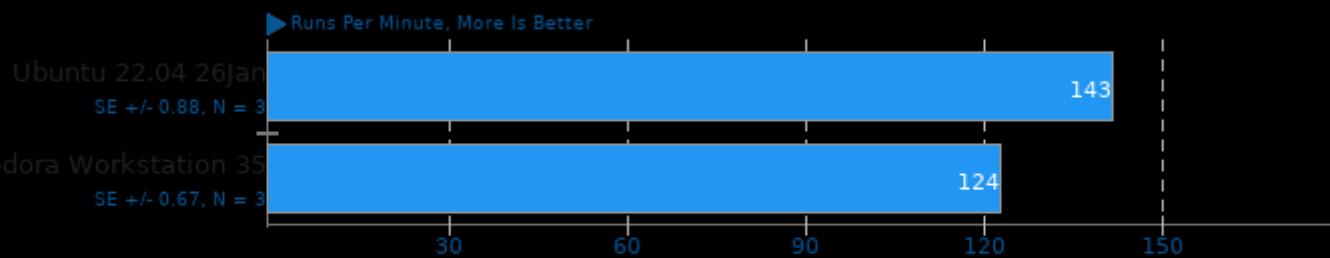
1. Ubuntu 22.04 26Jan: firefox 96.0.2

2. Fedora Workstation 35: firefox 96.0

Celeron G6900 Linux Comparison

Selenium

Benchmark: Speedometer - Browser: Firefox

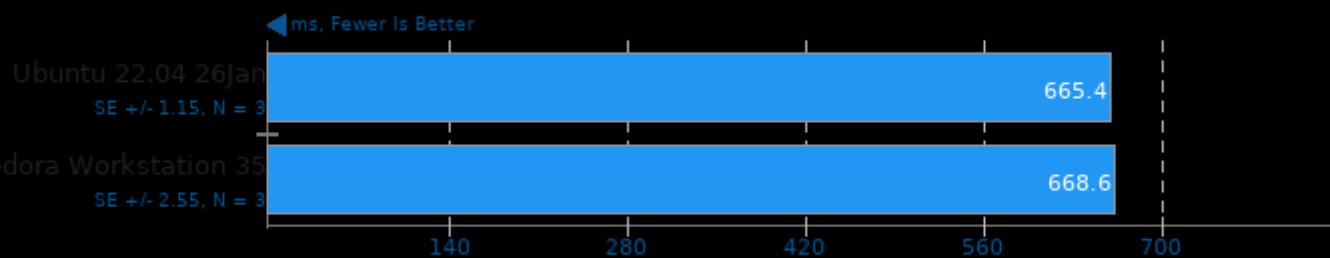


1. Ubuntu 22.04 26Jan: firefox 96.0.2

2. Fedora Workstation 35: firefox 96.0

Selenium

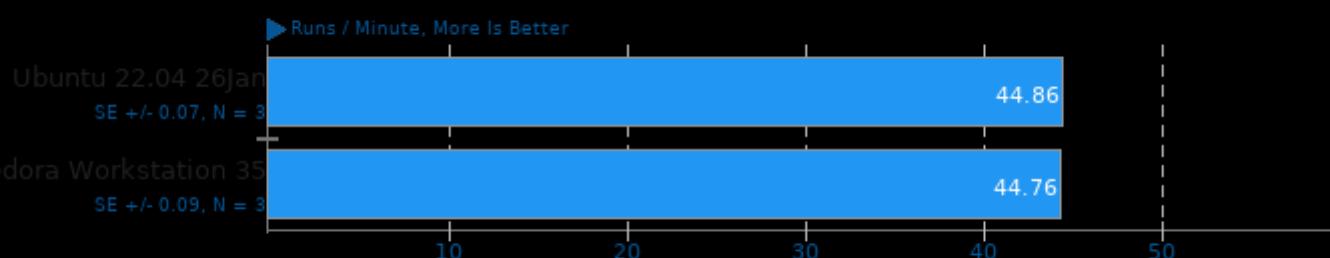
Benchmark: Kraken - Browser: Google Chrome



1. chrome 97.0.4692.99

Selenium

Benchmark: StyleBench - Browser: Google Chrome

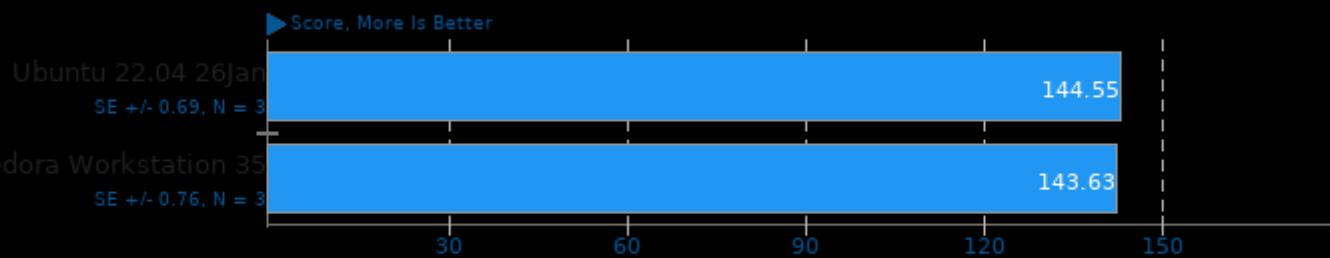


1. chrome 97.0.4692.99

Celeron G6900 Linux Comparison

Selenium

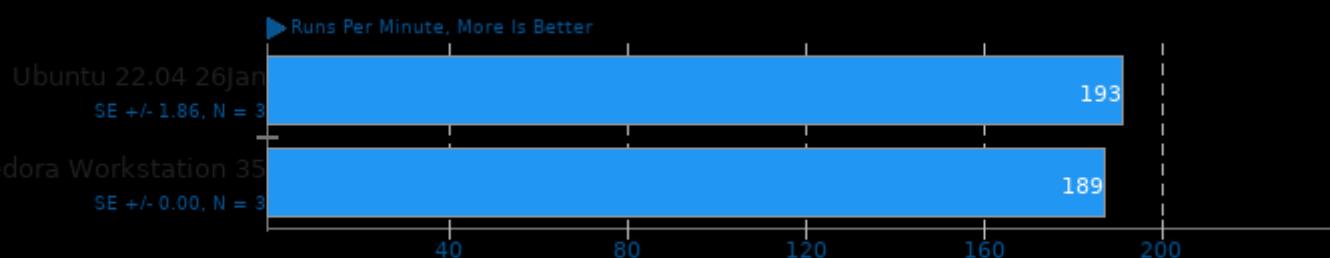
Benchmark: Jetstream 2 - Browser: Google Chrome



1. chrome 97.0.4692.99

Selenium

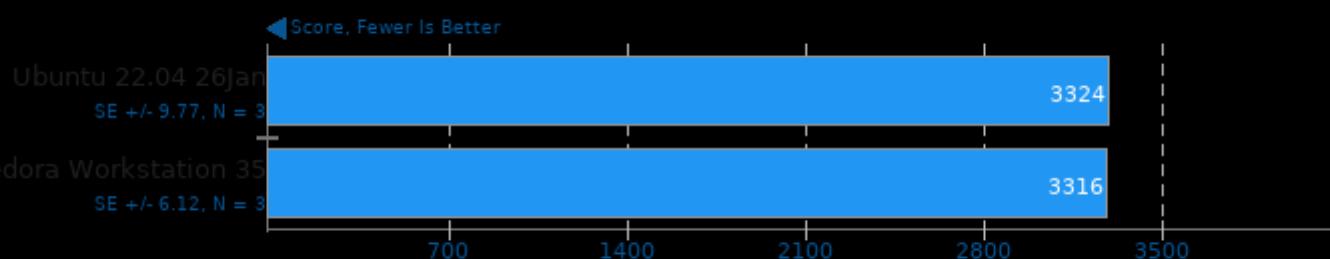
Benchmark: Speedometer - Browser: Google Chrome



1. chrome 97.0.4692.99

Selenium

Benchmark: PSPDFKit WASM - Browser: Google Chrome

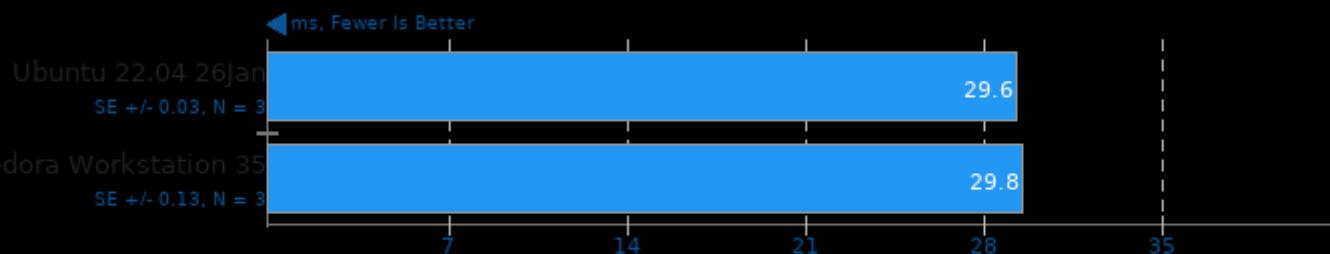


1. chrome 97.0.4692.99

Celeron G6900 Linux Comparison

Selenium

Benchmark: WASM imageConvolute - Browser: Firefox

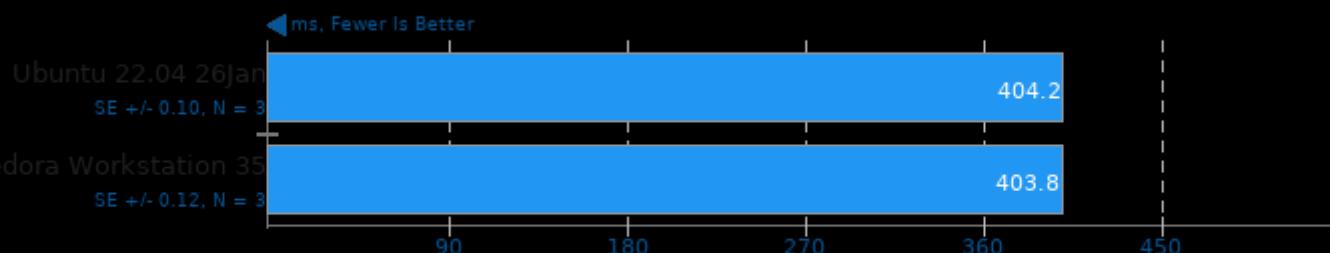


1. Ubuntu 22.04 26Jan: firefox 96.0.2

2. Fedora Workstation 35: firefox 96.0

Selenium

Benchmark: WASM collisionDetection - Browser: Firefox

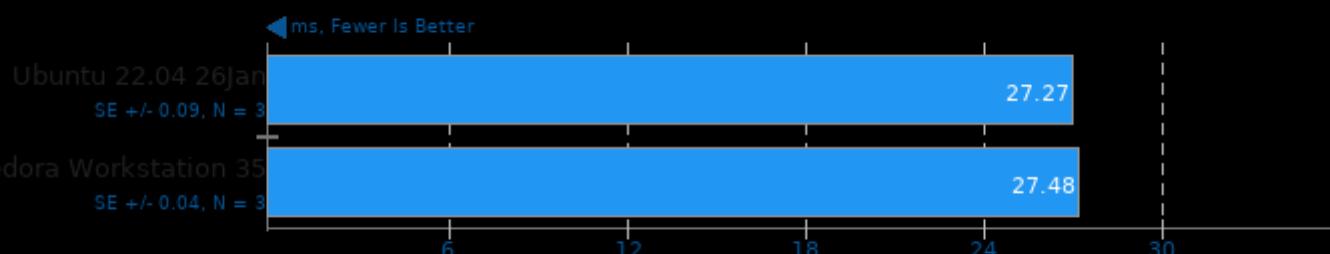


1. Ubuntu 22.04 26Jan: firefox 96.0.2

2. Fedora Workstation 35: firefox 96.0

Selenium

Benchmark: WASM imageConvolute - Browser: Google Chrome

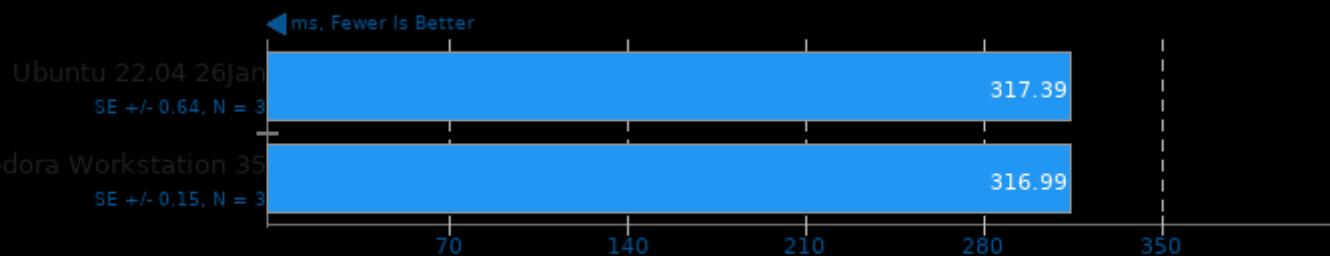


1. chrome 97.0.4692.99

Celeron G6900 Linux Comparison

Selenium

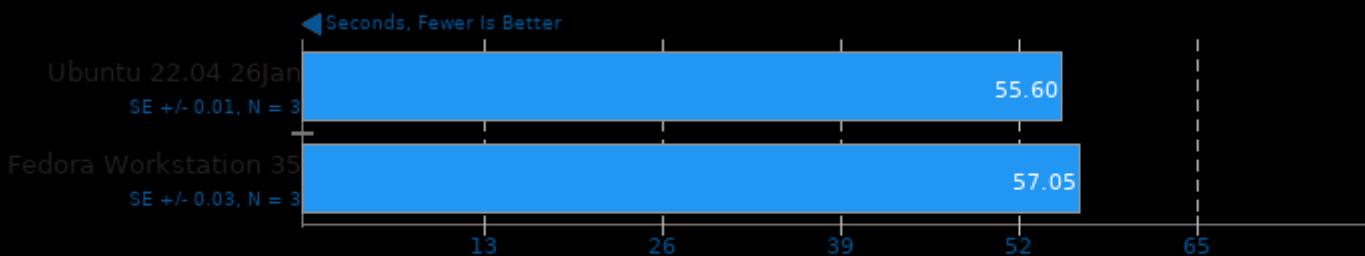
Benchmark: WASM collisionDetection - Browser: Google Chrome



1. chrome 97.0.4692.99

Git

Time To Complete Common Git Commands

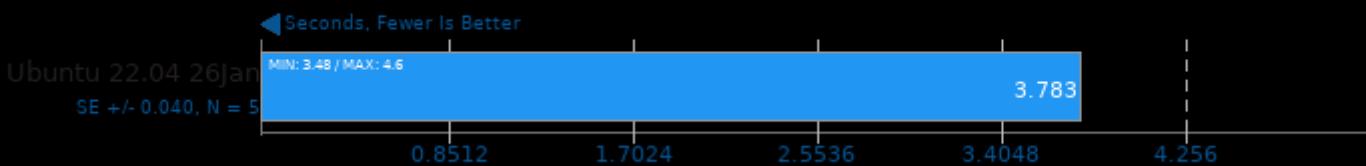


1. Ubuntu 22.04 26Jan: git version 2.33.1

2. Fedora Workstation 35: git version 2.34.1

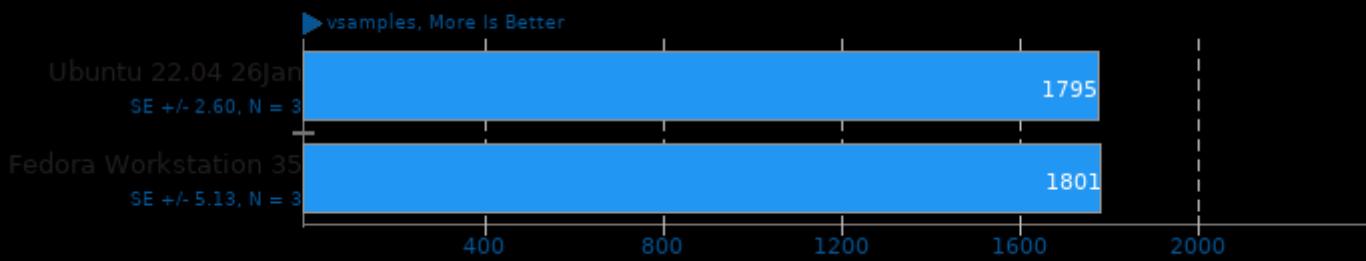
Sunflow Rendering System 0.07.2

Global Illumination + Image Synthesis



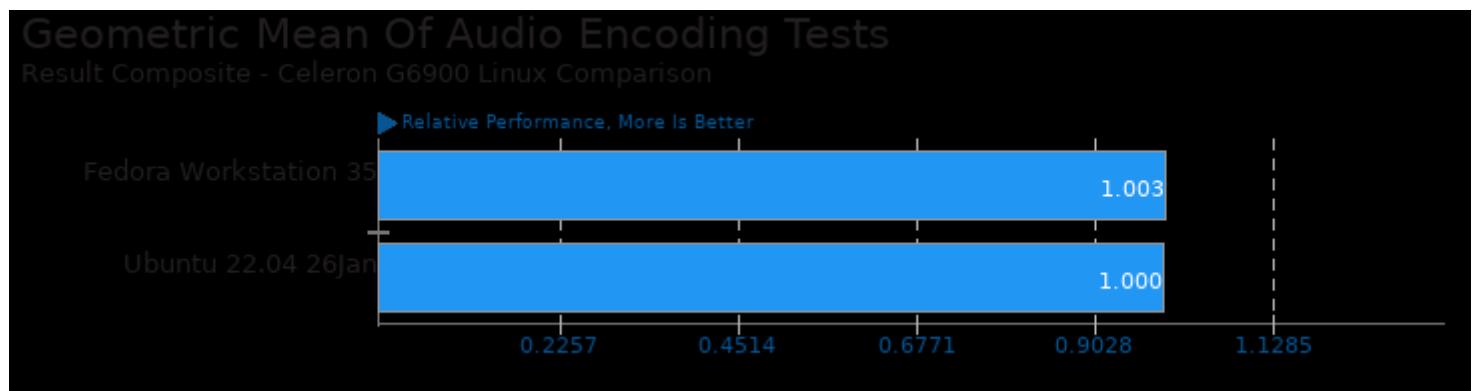
Chaos Group V-RAY 5

Mode: CPU



Celeron G6900 Linux Comparison

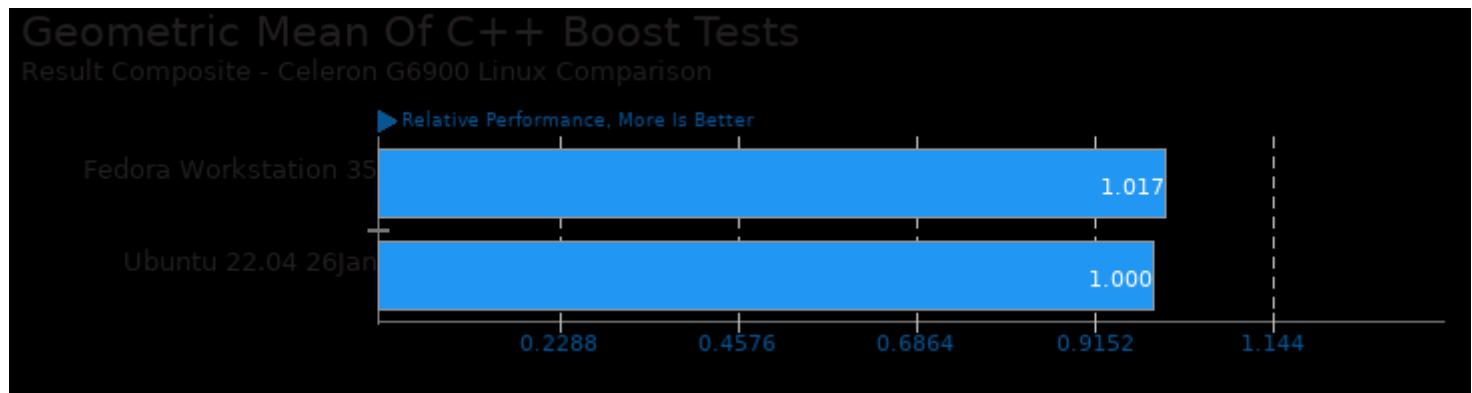
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/encode-mp3, pts/encode-flac and pts/encode-opus



Geometric mean based upon tests: pts/svt-av1, pts/rav1e and pts/avifenc

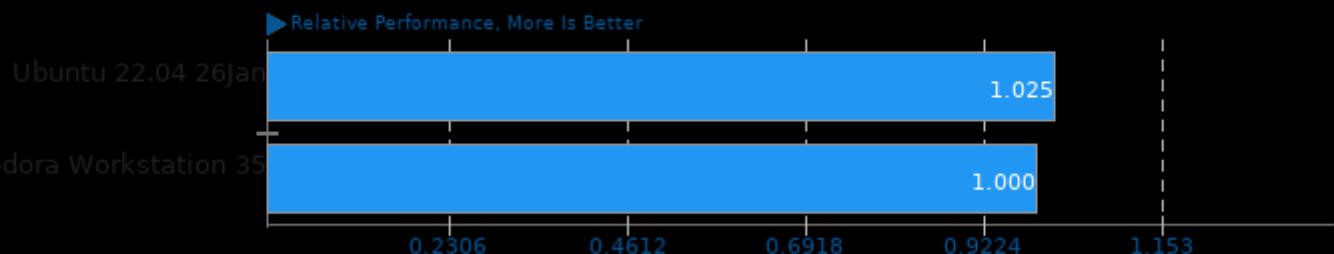


Geometric mean based upon tests: pts/quantlib and pts/srsran

Celeron G6900 Linux Comparison

Geometric Mean Of Web Browsers Tests

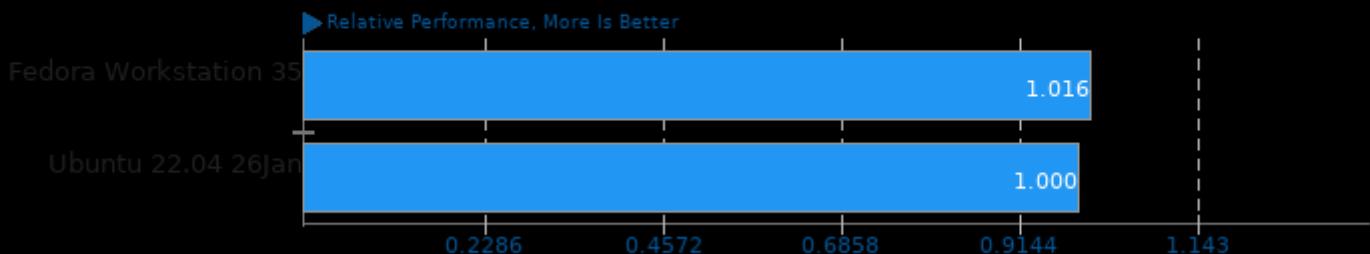
Result Composite - Celeron G6900 Linux Comparison



Geometric mean based upon tests: system/selenium

Geometric Mean Of Chess Test Suite

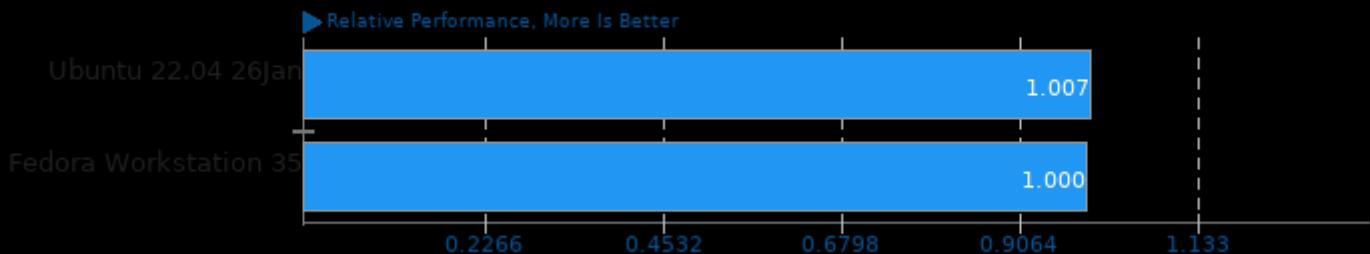
Result Composite - Celeron G6900 Linux Comparison



Geometric mean based upon tests: pts/crafty, pts/tscp, pts/lczero, pts/stockfish and pts/asmfish

Geometric Mean Of Timed Code Compilation Tests

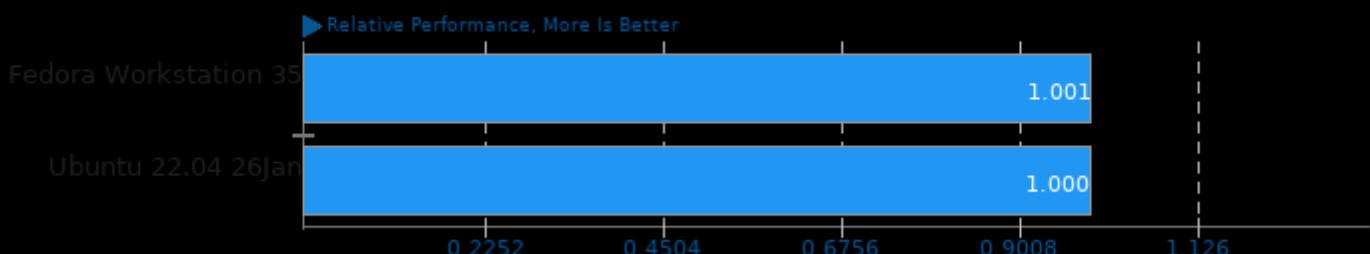
Result Composite - Celeron G6900 Linux Comparison



Geometric mean based upon tests: pts/build-linux-kernel, pts/build-gdb, pts/build-ffmpeg, pts/build-mplayer and pts/build-wasmer

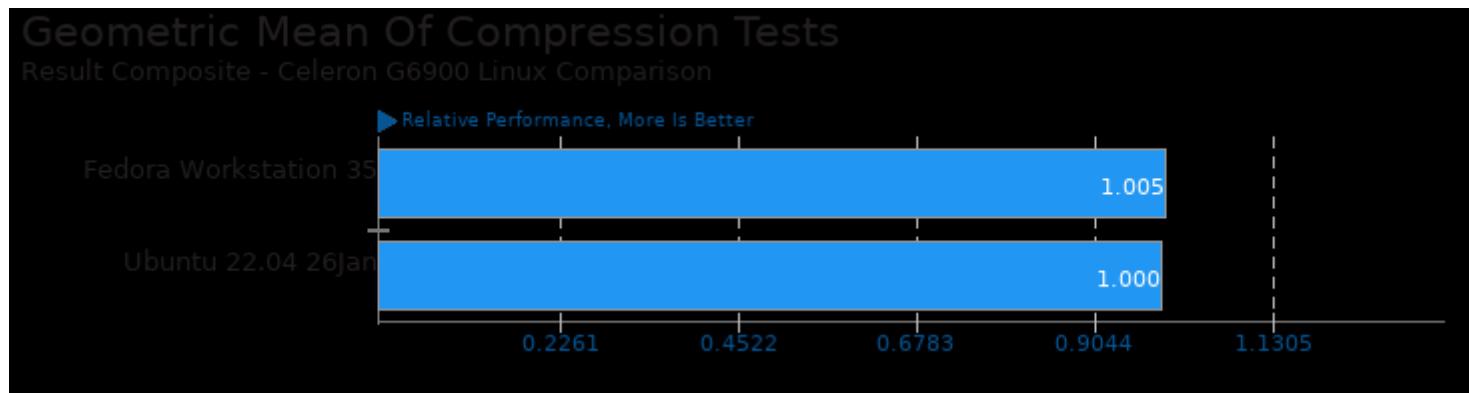
Geometric Mean Of C/C++ Compiler Tests

Result Composite - Celeron G6900 Linux Comparison

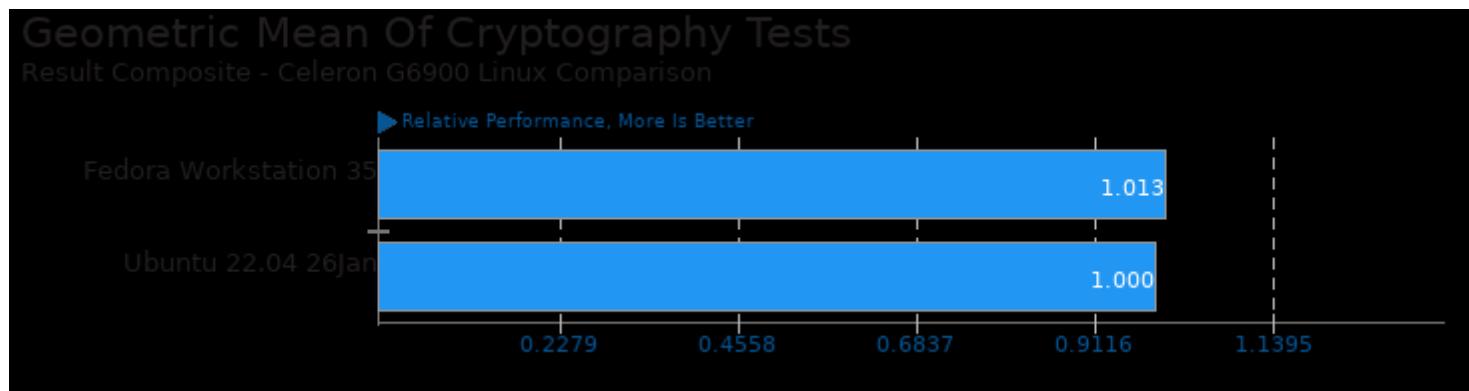


Celeron G6900 Linux Comparison

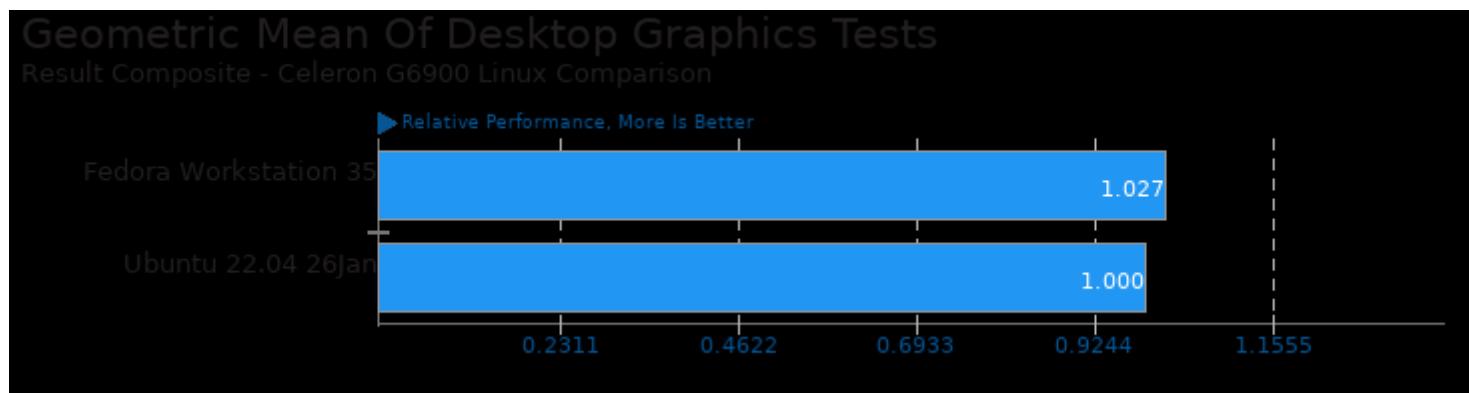
Geometric mean based upon tests: pts/tscp, pts/stockfish, pts/compress-7zip, pts/encode-mp3, pts/encode-flac, pts/x264, pts/x265, pts/kvazaar, pts/compress-zstd, pts/svt-av1, pts/svt-vp9, pts/build-gdb, pts/build-ffmpeg and pts/build-mplayer



Geometric mean based upon tests: pts/compress-7zip, pts/compress-zstd and pts/compress-lz4



Geometric mean based upon tests: pts/blake2, pts/securemark and pts/cpuminer-opt

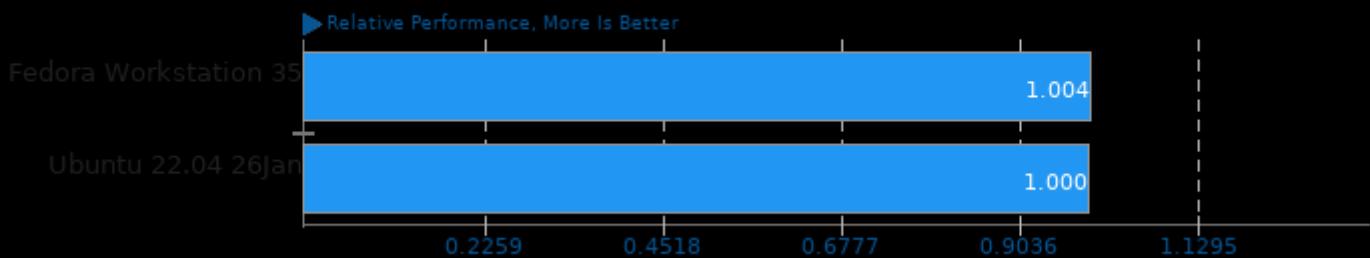


Geometric mean based upon tests: pts/xonotic, pts/tesseract, pts/paraview and pts/glmark2

Celeron G6900 Linux Comparison

Geometric Mean Of Encoding Tests

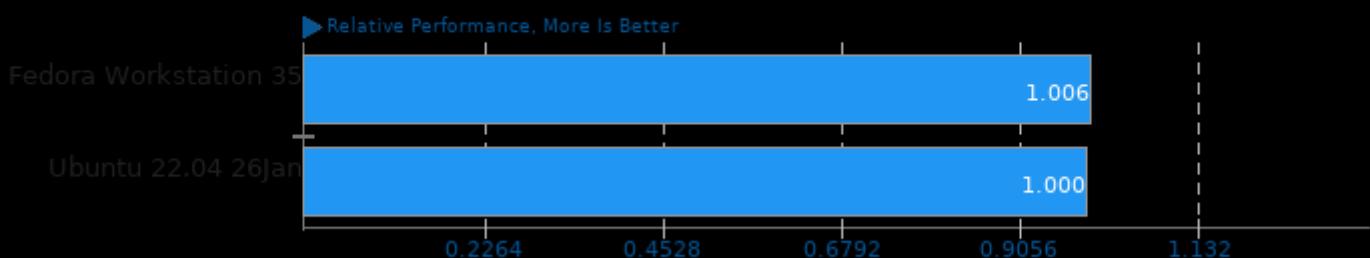
Result Composite - Celeron G6900 Linux Comparison



Geometric mean based upon tests: pts/encode-mp3, pts/encode-flac, pts/encode-opus, pts/svt-vp9, pts/svt-hevc, pts/x264, pts/x265, pts/kvazaar, pts/svt-av1, pts/rav1e and pts/avifenc

Geometric Mean Of Game Development Tests

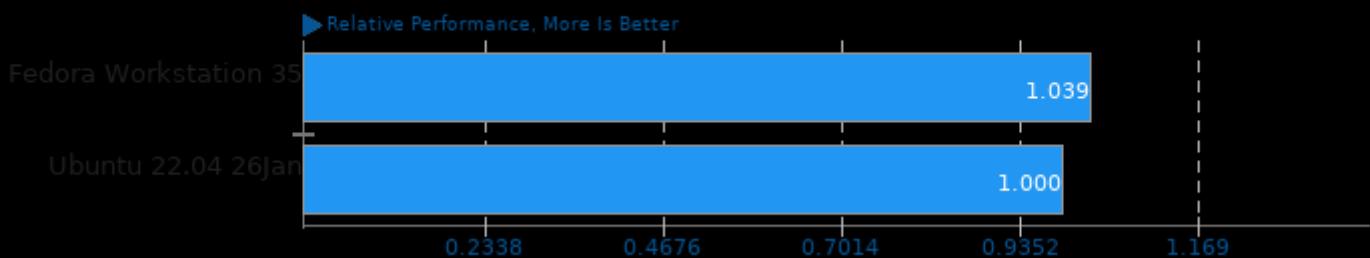
Result Composite - Celeron G6900 Linux Comparison



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

Geometric Mean Of HPC - High Performance Computing Tests

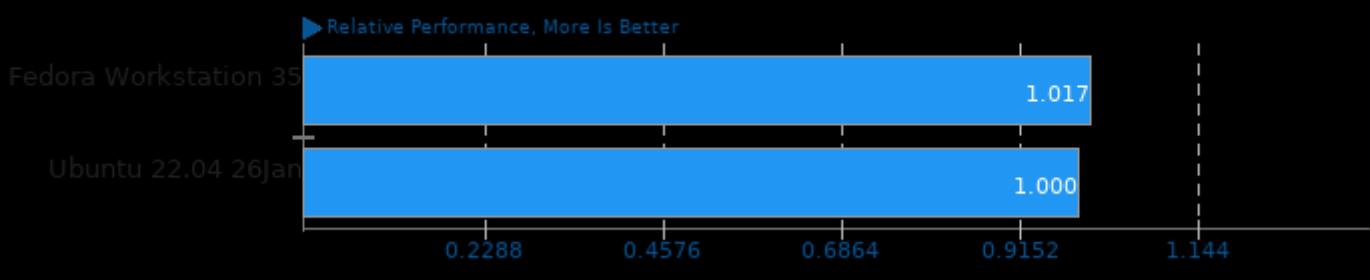
Result Composite - Celeron G6900 Linux Comparison



Geometric mean based upon tests: pts/tnn and pts/lczero

Geometric Mean Of Imaging Tests

Result Composite - Celeron G6900 Linux Comparison

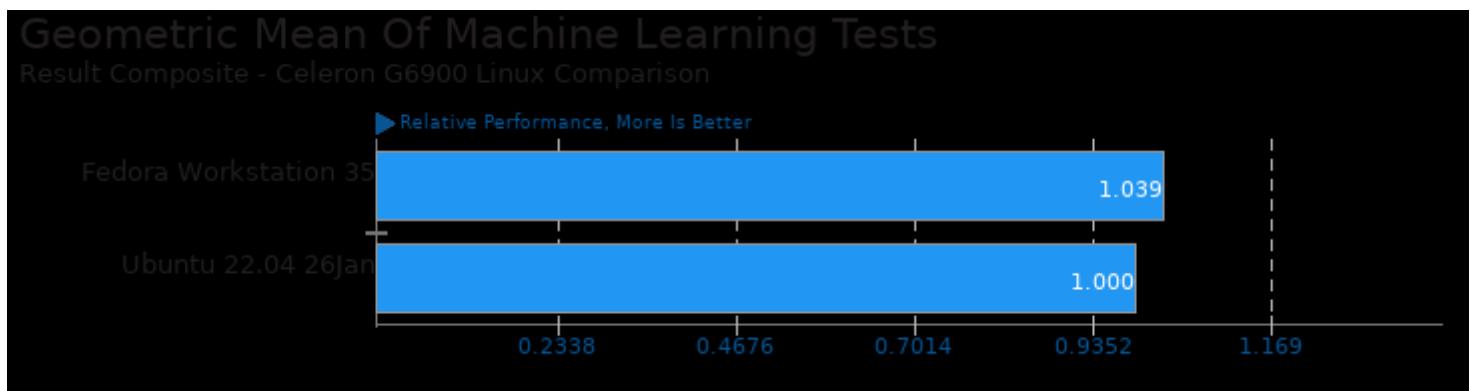


Celeron G6900 Linux Comparison

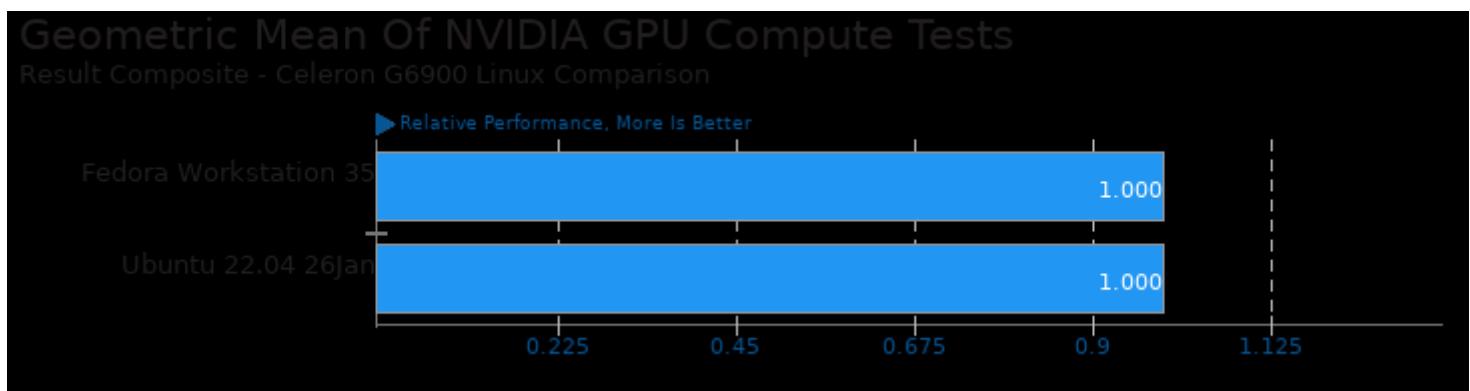
Geometric mean based upon tests: pts/libraw, pts/webp and pts/avifenc



Geometric mean based upon tests: pts/sunflow and pts/dacapobench



Geometric mean based upon tests: pts/tnn and pts/lczero

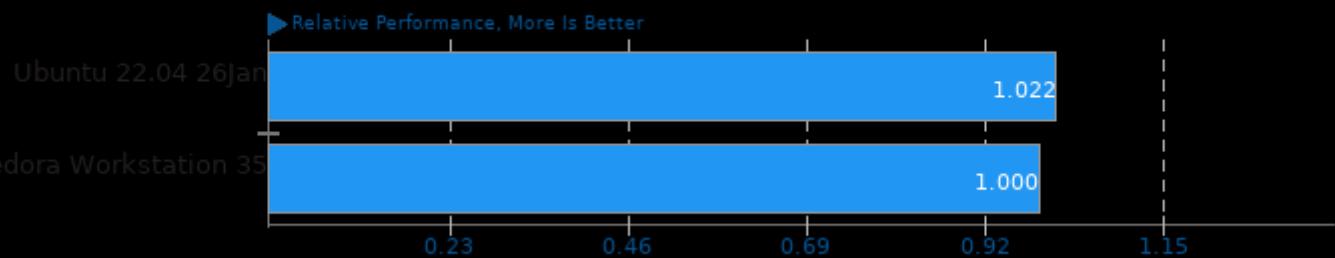


Geometric mean based upon tests: pts/luxcorerender, pts/lczero, pts/indigobench, pts/v-ray and pts/blender

Celeron G6900 Linux Comparison

Geometric Mean Of Programmer / Developer System Benchmarks Tests

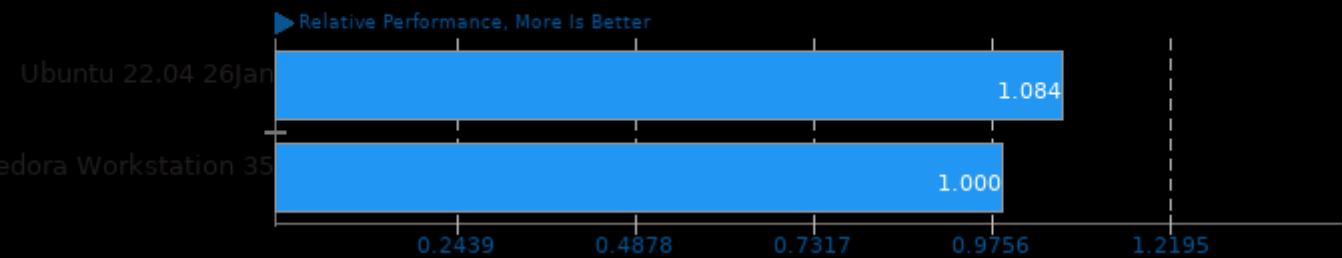
Result Composite - Celeron G6900 Linux Comparison



Geometric mean based upon tests: pts/simdjson, pts/git, pts/compress-zstd, pts/pyperformance, pts/pybench, pts/build-linux-kernel, pts/build-gdb, pts/build-ffmpeg, pts/build-mplayer and pts/build-wasmer

Geometric Mean Of Python Tests

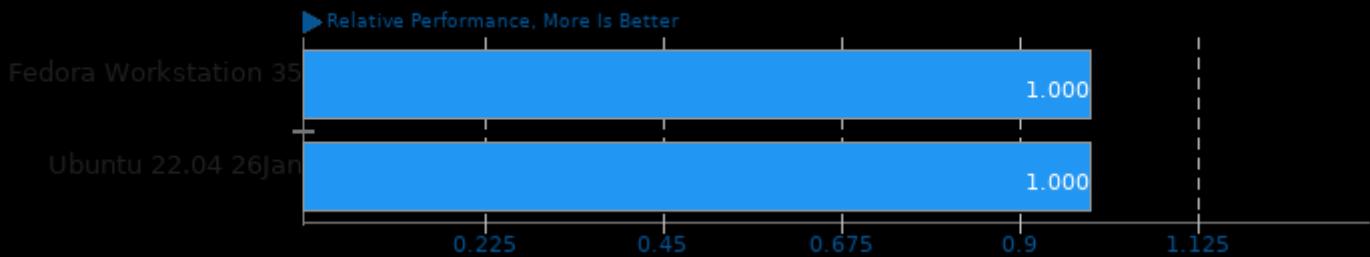
Result Composite - Celeron G6900 Linux Comparison



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

Geometric Mean Of Renderers Tests

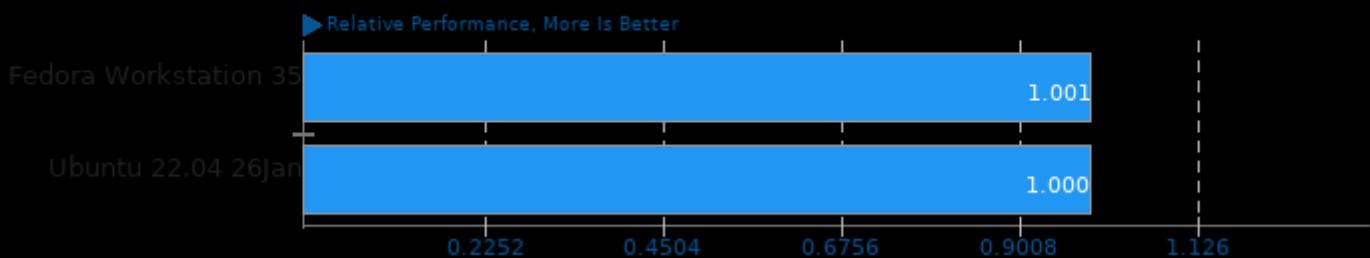
Result Composite - Celeron G6900 Linux Comparison



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

Geometric Mean Of Rust Tests

Result Composite - Celeron G6900 Linux Comparison

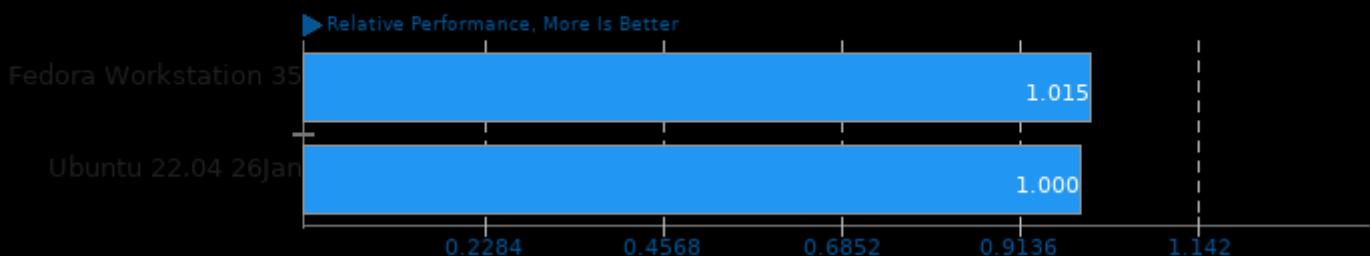


Geometric mean based upon tests: pts/rav1e and pts/build-wasmer

Celeron G6900 Linux Comparison

Geometric Mean Of Software Defined Radio Tests

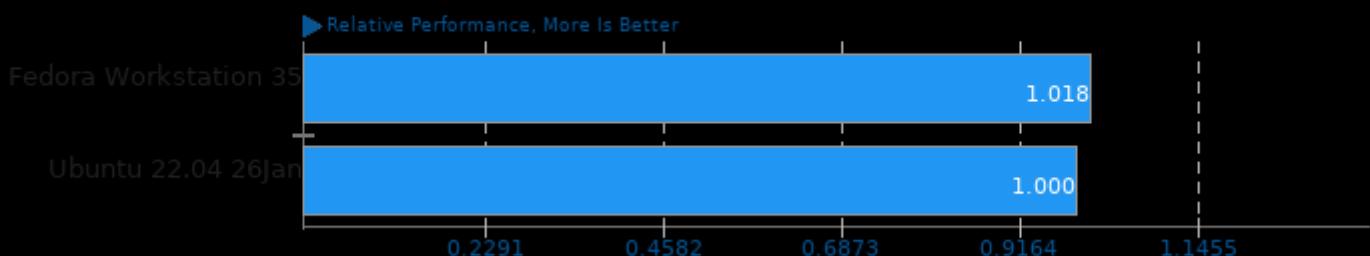
Result Composite - Celeron G6900 Linux Comparison



Geometric mean based upon tests: pts/liquid-dsp and pts/srsran

Geometric Mean Of Server Tests

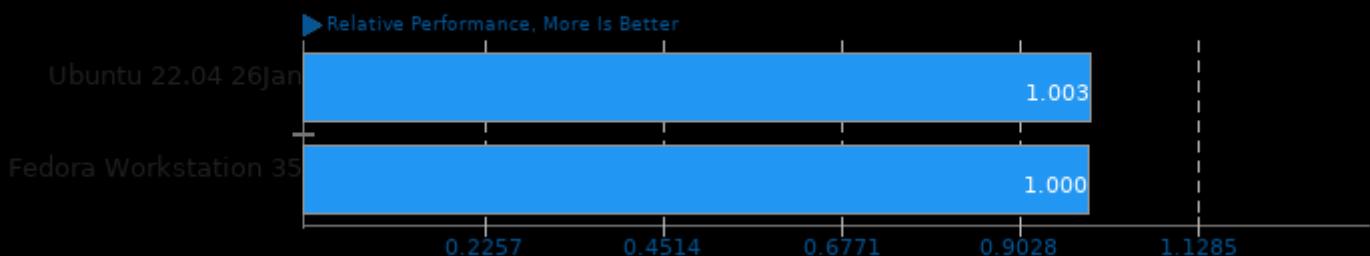
Result Composite - Celeron G6900 Linux Comparison



Geometric mean based upon tests: pts/phpbench and pts/simdjson

Geometric Mean Of Server CPU Tests

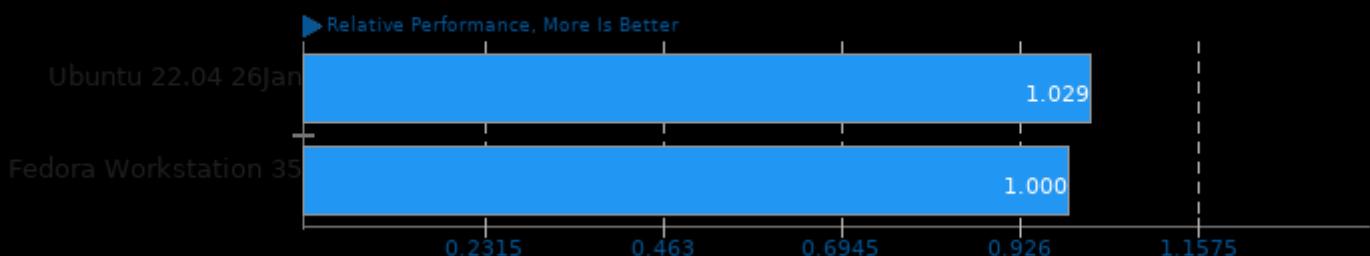
Result Composite - Celeron G6900 Linux Comparison



Geometric mean based upon tests: pts/dacapobench, pts/svt-av1, pts/svt-hevc, pts/svt-vp9, pts/x264, pts/x265, pts/compress-7zip, pts/stockfish, pts/asmfish, pts/build-linux-kernel, pts/compress-zstd, pts/blender, pts/appleseed, pts/pybench, pts/phpbench and pts/cpuminer-opt

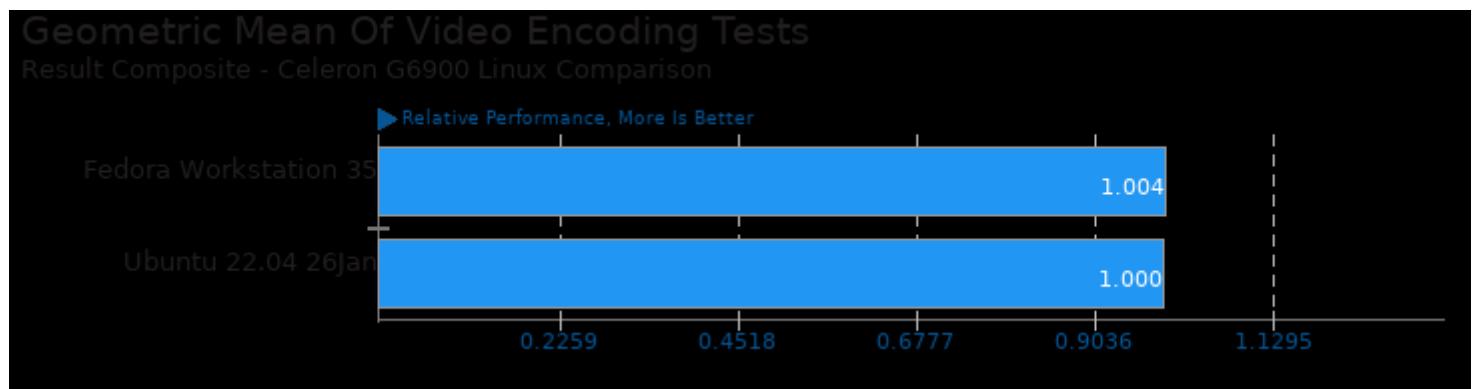
Geometric Mean Of Single-Threaded Tests

Result Composite - Celeron G6900 Linux Comparison

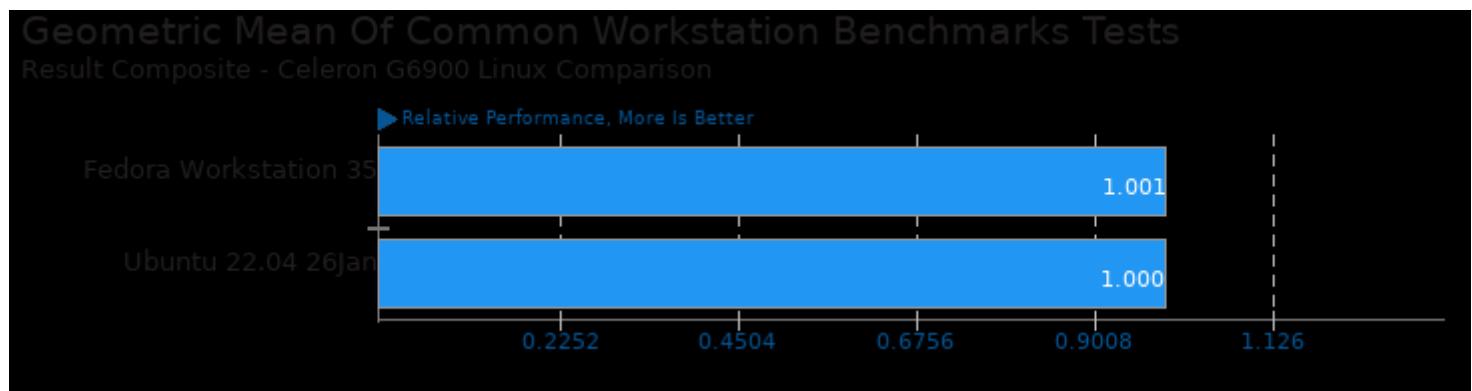


Celeron G6900 Linux Comparison

Geometric mean based upon tests: pts/blake2, pts/encode-flac, pts/encode-mp3, pts/pybench, pts/phpbench and pts/git



Geometric mean based upon tests: pts/svt-vp9, pts/svt-hevc, pts/x264, pts/x265, pts/kvazaar, pts/svt-av1, pts/rav1e and pts/avifenc



Geometric mean based upon tests: pts/blender, pts/x265, pts/paraview and pts/git

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 07:21.