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Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

Benchmarks by Michael Larabel.

Automated Executive Summary

Arch Linux had the most wins, coming in first place for 26% of the tests.

Based on the geometric mean of all complete results, the fastest (Ubuntu 21.10) was 1.128x the speed of the slowest (Windows 11 Pro). Arch Linux was 0.996x the speed of Ubuntu 21.10, Fedora Workstation 35 was 0.995x the speed of Arch Linux, Ubuntu 20.04.3 LTS was 0.993x the speed of Fedora Workstation 35, Windows 11 Pro was 0.902x the speed of Ubuntu 20.04.3 LTS.

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

GIMP (Test: resize) at 6.932x
GIMP (Test: rotate) at 5.162x
GIMP (Test: auto-levels) at 5.161x
GIMP (Test: unsharp-mask) at 4.5x
PHPBench (PHP Benchmark Suite) at 1.835x
DaCapo Benchmark (Java Test: Tradesoap) at 1.818x
Git (Time To Complete Common Git Commands) at 1.527x
Unigine Valley (Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL) at 1.495x

PyBench (Total For Average Test Times) at 1.43x
GravityMark (Resolution: 1920 x 1080 - Renderer: OpenGL) at 1.411x.

Test Systems:

Windows 11 Pro

Processor: Intel Core i9-11900K @ 3.50GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (1007 BIOS), Memory: 2 x 16384 MB 3200MHz Corsair CMK32GX4M2Z3600C18, Disk: 1863GB Force MP600 + 15GB Corsair Voyager 3.0 USB, Graphics: AMD Radeon VII 4GB, Audio: AMD HD Audio Device + USB Audio 2.0 + HD Audio Device + AMD Streaming Audio Device, Monitor: ASUS MG8U, Network: Bluetooth Device (Personal Area) + Intel (3) I225-V + Intel Wi-Fi 6E AX210 160MHz

OS: Microsoft Windows 11 Pro Build 22000, Kernel: 10.0 (x86_64), Display Driver: 30.0.13025.5005, OpenCL: OpenCL 2.1 AMD-APP (3302.6), Compiler: GCC 8.3.0, File-System: NTFS, Screen Resolution: 3840x2160

Processor Notes: CPU Microcode: 0000000040000000
Java Notes: OpenJDK Runtime Environment 18.9 (build 11.0.6+10-LTS)
Python Notes: Python 3.7.1
Security Notes: __user pointer sanitization: Disabled + IBPB: Always + IBRS: Enabled + STIBP: Enabled

Ubuntu 21.10

Processor: Intel Core i9-11900K @ 5.10GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (1007 BIOS), Chipset: Intel Tiger Lake-H, Memory: 32GB, Disk: 2000GB Corsair Force MP600, Graphics: AMD Radeon VII 16GB (1801/1000MHz), Audio: Intel Tiger Lake-H HD Audio, Monitor: ASUS MG28U, Network: 2 x Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Ubuntu 21.10, Kernel: 5.13.0-20-generic (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.2.2 (LLVM 12.0.1), Vulkan: 1.2.182, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-ZPT0kp/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-ZPT0kp/gcc-11-11.2.0/debian/tmp-gcn/usr --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x40 - Thermald 2.4.6
Graphics Notes: BAR1 / Visible vRAM Size: 16368 MB
Java Notes: OpenJDK Runtime Environment (build 11.0.12+7-Ubuntu-0ubuntu3)
Python Notes: Python 3.9.7
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Arch Linux

Processor: Intel Core i9-11900K @ 5.10GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (1007 BIOS), Chipset: Intel Tiger Lake-H, Memory: 32GB, Disk: 2000GB Corsair Force MP600 + 257GB Flash Drive, Graphics: AMD Radeon VII 16GB (1801/1000MHz), Audio: Intel Tiger Lake-H HD Audio, Monitor: ASUS MG28U,

Network: 2 x Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Arch Linux, Kernel: 5.14.12-arch1-1 (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.2.4 (LLVM 12.0.1), Compiler: GCC 11.1.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x40
Graphics Notes: BAR1 / Visible vRAM Size: 16368 MB
Java Notes: OpenJDK Runtime Environment (build 11.0.12+7)
Python Notes: Python 3.9.7
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Fedora Workstation 35

Processor: Intel Core i9-11900K @ 5.10GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (1007 BIOS), Chipset: Intel Tiger Lake-H, Memory: 32GB, Disk: 2000GB Corsair Force MP600 + 257GB Flash Drive, Graphics: AMD Radeon VII 16GB (1801/1000MHz), Audio: Intel Tiger Lake-H HD Audio, Monitor: ASUS MG28U, Network: 2 x Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Fedora Linux 35, Kernel: 5.14.12-300.fc35.x86_64 (x86_64), Desktop: GNOME Shell 41.0, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.2.4 (LLVM 13.0.0), Compiler: GCC 11.2.1 20210728, File-System: btrfs, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Environment Notes: DEBUGINFOD_URLS="https://debuginfod.fedoraproject.org/ 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 - CPU Microcode: 0x40 - Thermald 2.4.6
Graphics Notes: BAR1 / Visible vRAM Size: 16368 MB
Java Notes: OpenJDK Runtime Environment 18.9 (build 11.0.12+7)
Python Notes: Python 3.10.0
Security Notes: SELinux + itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Ubuntu 20.04.3 LTS

Processor: Intel Core i9-11900K @ 5.10GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (1007 BIOS), Chipset: Intel Device 43ef, Memory: 32GB, Disk: 2000GB Corsair Force MP600 + 257GB Flash Drive, Graphics: AMD Radeon VII 16GB (1801/1000MHz), Audio: Intel Device 43c8, Monitor: ASUS MG28U, Network: 2 x Intel Device 15f3 + Intel Device 2725

OS: Ubuntu 20.04, Kernel: 5.11.0-38-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, Vulkan: 1.2.145, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x40 - Thermald 1.9.1
Graphics Notes: GLAMOR - BAR1 / Visible vRAM Size: 16368 MB
Java Notes: OpenJDK Runtime Environment (build 11.0.11+9-Ubuntu-0ubuntu2.20.04)
Python Notes: Python 3.8.10
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

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

	Windows 11 Pro	Ubuntu 21.10	Arch Linux	Fedora Workstation 35	Ubuntu 20.04.3 LTS
GravityMark - 1920 x 1080 - OpenGL (FPS)	**93.5**	131.8	**131.9**	127.6	103.1
Normalized	70.89%	99.92%	100%	96.74%	78.17%
Standard Deviation	0.3%	0.7%	0.6%	0.4%	0.7%
GravityMark - 1920 x 1080 - Vulkan (FPS)	**127.0**	128.3	127.6	128.2	**129.5**
Normalized	98.07%	99.07%	98.53%	99%	100%
Standard Deviation	0.1%	0.2%	0.4%	0.2%	0%
GravityMark - 3840 x 2160 - OpenGL (FPS)	**66.0**	**80.4**	77.6	79.2	68.6
Normalized	82.09%	100%	96.52%	98.51%	85.32%
Standard Deviation	0.1%	0.3%	9%	0.1%	0.1%
GravityMark - 3840 x 2160 - Vulkan (FPS)	**82.2**	81.3	**78.3**	81.4	81.2
Normalized	100%	98.91%	95.26%	99.03%	98.78%
Standard Deviation	0.6%	0%	8.8%	0.1%	0.1%
Unigine Heaven - 1920 x 1080 - Fullscreen - OpenGL (FPS)	**167.842**	182.050	183.107	**185.089**	180.821
Normalized	90.68%	98.36%	98.93%	100%	97.69%
Standard Deviation	0.3%	0.1%	0.2%	0.1%	0.2%
Unigine Valley - 1920 x 1080 - Fullscreen - OpenGL (FPS)	**131.276**	195.961	196.220	**196.319**	190.826
Normalized	66.87%	99.82%	99.95%	100%	97.2%
Standard Deviation	0.1%	0.2%	0.4%	0.2%	0.1%
Unigine Valley - 3840 x 2160 - Fullscreen - OpenGL (FPS)	48.2306	48.5166	**48.7351**	**48.1095**	48.5953
Normalized	98.96%	99.55%	100%	98.72%	99.71%
Standard Deviation	0%	0%	0.3%	0%	0%
ParaView - Many Spheres - 1920 x 1200 (Frames / Sec)	**43.05**	43.98	43.97	43.99	**44.12**
Normalized	97.57%	99.68%	99.66%	99.71%	100%
Standard Deviation	0.1%	0%	0%	0%	0%
ParaView - Many Spheres - 1920 x 1200 (MiPolys / Sec)	**4316**	4410	4408	4410	**4423**
Normalized	97.58%	99.69%	99.65%	99.7%	100%
Standard Deviation	0.1%	0%	0%	0%	0%
ParaView - Wavelet Contour - 1920 x 1200 (Frames / Sec)	**309.49**	346.10	346.01	**351.90**	347.10
Normalized	87.95%	98.35%	98.33%	100%	98.64%
Standard Deviation	0.4%	0.1%	0.1%	1.2%	0.2%
ParaView - Wavelet Contour - 1920 x 1200 (MiPolys / Sec)	**3225**	3607	3606	**3667**	3617
Normalized	87.95%	98.35%	98.32%	100%	98.63%
Standard Deviation	0.4%	0.1%	0.1%	1.2%	0.2%

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DaCapo Benchmark - Jython (msec)	**3261**	2954	**2881**	3063	3051
Normalized	88.35%	97.53%	100%	94.06%	94.43%
Standard Deviation	2%	2.5%	1.2%	1.4%	1.7%
DaCapo Benchmark - Tradesoap (msec)	**5569**	3262	**3064**	3239	3442
Normalized	55.02%	93.93%	100%	94.6%	89.02%
Standard Deviation	2.2%	1.6%	2%	2.4%	2.4%
DaCapo Benchmark - Tradebeans (msec)	**2268**	**2075**	2110	2156	2172
Normalized	91.49%	100%	98.34%	96.24%	95.53%
Standard Deviation	4.1%	1.6%	3.1%	1.6%	3.5%
Renaissance - Scala Dotty (ms)	**1049**	**601.8**	606.6	659.9	652.0
Normalized	57.38%	100%	99.21%	91.2%	92.3%
Standard Deviation	0.9%	1%	1.6%	6.1%	5.7%
Renaissance - Savina Reactors.IO (ms)	7586	7579	7523	**7747**	**7209**
Normalized	95.02%	95.11%	95.83%	93.05%	100%
Standard Deviation	2.2%	2.3%	5.2%	5.5%	4.8%
Renaissance - F.H.R (ms)	**1935**	1636	**1625**	1825	1664
Normalized	83.99%	99.32%	100%	89.03%	97.64%
Standard Deviation	0.2%	0.6%	0.6%	0.1%	1.6%
Renaissance - A.U.C.T (ms)	**8590**	9700	9755	**10332**	9685
Normalized	100%	88.55%	88.05%	83.14%	88.69%
Standard Deviation	3.6%	0.2%	2.3%	0.6%	0.2%
Renaissance - G.A.U.J.F (ms)	**1449**	1140	1173	1187	**1129**
Normalized	77.93%	99.06%	96.31%	95.17%	100%
Standard Deviation	2.1%	2.4%	10.3%	2.1%	3.7%
TSCP - A.C.P (Nodes/s)	1905851	1870854	**1867472**	1936637	**1938008**
Normalized	98.34%	96.53%	96.36%	99.93%	100%
Standard Deviation	0.5%	0.2%	1.7%	0.2%	0.3%
LuxCoreRender - DLSC - CPU (M samples/sec)	**2.02**	2.12	**2.13**	2.10	2.10
Normalized	94.84%	99.53%	100%	98.59%	98.59%
Standard Deviation	0%	0.7%	1%	1.2%	1.2%
LuxCoreRender - Danish Mood - CPU (M samples/sec)	**1.73**	1.47	**1.46**	1.48	1.51
Normalized	100%	84.97%	84.39%	85.55%	87.28%
Standard Deviation	2.1%	1.6%	1.4%	3.3%	3.1%
LuxCoreRender - Orange Juice - CPU (M samples/sec)	**3.32**	**3.46**	**3.46**	3.40	3.42
Normalized	95.95%	100%	100%	98.27%	98.84%
Standard Deviation	0.2%	0.2%	0.4%	0.3%	0.3%
LuxCoreRender - LuxCore Benchmark - CPU (M	**1.89**	1.69	1.68	1.68	**1.67**
Normalized	100%	89.42%	88.89%	88.89%	88.36%
Standard Deviation	0.3%	0.6%	5.4%	0.9%	0.3%
LuxCoreRender - R.C.a.P - CPU (M samples/sec)	**7.25**	**8.60**	8.56	8.40	8.51
Normalized	84.3%	100%	99.53%	97.67%	98.95%
Standard Deviation	1.1%	1.1%	1.8%	0.9%	0.4%
dav1d - Summer Nature 4K (FPS)	196.78	199.83	**201.38**	199.08	**179.24**
Normalized	97.72%	99.23%	100%	98.86%	89.01%
Standard Deviation	0.1%	0.1%	0.1%	0.1%	0%

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SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	16.825	19.586	19.648	19.560	19.050
Normalized	85.63%	99.68%	100%	99.55%	96.96%
Standard Deviation	1.6%	0.2%	0.3%	1.2%	0.1%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	72.218	75.376	75.641	74.762	71.974
Normalized	95.47%	99.65%	100%	98.84%	95.15%
Standard Deviation	5.6%	0.6%	0.5%	1.2%	0.7%
Intel Open Image Denoise - RT.ldr_alb_nrm.3840x2160 (Images / Sec)	0.43	0.44	0.44	0.44	0.44
Normalized	97.73%	100%	100%	100%	100%
Standard Deviation	0%	0%	0%	0.1%	0.1%
Stockfish - Total Time (Nodes/s)	26368403	28857997	27650668	30012021	28989462
Normalized	87.86%	96.15%	92.13%	100%	96.59%
Standard Deviation	1.3%	2.5%	10.8%	1.2%	1.5%
asmFish - 1.H.M.2.D (Nodes/s)	31954408	31513079	31976780	31833975	32645648
Normalized	97.88%	96.53%	97.95%	97.51%	100%
Standard Deviation	0.6%	2.3%	1.5%	0.6%	2.3%
libavif avifenc - 0 (sec)	65.834	57.682	57.231	56.315	57.518
Normalized	85.54%	97.63%	98.4%	100%	97.91%
Standard Deviation	0.4%	1.1%	0.3%	1%	0.4%
libavif avifenc - 2 (sec)	34.060	29.846	29.564	29.025	29.841
Normalized	85.22%	97.25%	98.18%	100%	97.27%
Standard Deviation	0.3%	0.5%	0.3%	0.7%	0.2%
libavif avifenc - 6 (sec)	11.703	10.410	10.363	10.209	10.482
Normalized	87.23%	98.07%	98.51%	100%	97.4%
Standard Deviation	0.3%	0.6%	0.6%	0.2%	0.8%
libavif avifenc - 6, Lossless (sec)	55.963	51.440	53.639	49.303	51.416
Normalized	88.1%	95.85%	91.92%	100%	95.89%
Standard Deviation	0.7%	0.2%	21.2%	0.4%	0.2%
FLAC Audio Encoding - WAV To FLAC (sec)	12.962	11.397	11.307	11.222	11.883
Normalized	86.58%	98.46%	99.25%	100%	94.44%
Standard Deviation	0.2%	0.5%	0.1%	0.6%	0.2%
Opus Codec Encoding - WAV To Opus Encode (sec)	7.413	6.437	6.300		
Normalized	84.99%	97.87%	100%		
Standard Deviation	3.6%	0.8%	0.2%		
GIMP - resize (sec)	39.269		5.665		
Normalized	14.43%		100%		
Standard Deviation	3.5%		1%		
GIMP - rotate (sec)	42.271		8.243		
Normalized	19.37%		99.34%		
Standard Deviation	0.7%		0.2%		
GIMP - auto-levels (sec)	44.021		8.563		
Normalized	19.37%		99.6%		
Standard Deviation	0.3%		0.3%		
GIMP - unsharp-mask (sec)	46.553		10.412		
Normalized	22.22%		99.35%		
Standard Deviation	0.2%		0.2%		
IndigoBench - CPU - Bedroom (M samples/s)	2.024	2.084	2.088	2.077	2.089
Normalized	96.89%	99.76%	99.95%	99.43%	100%

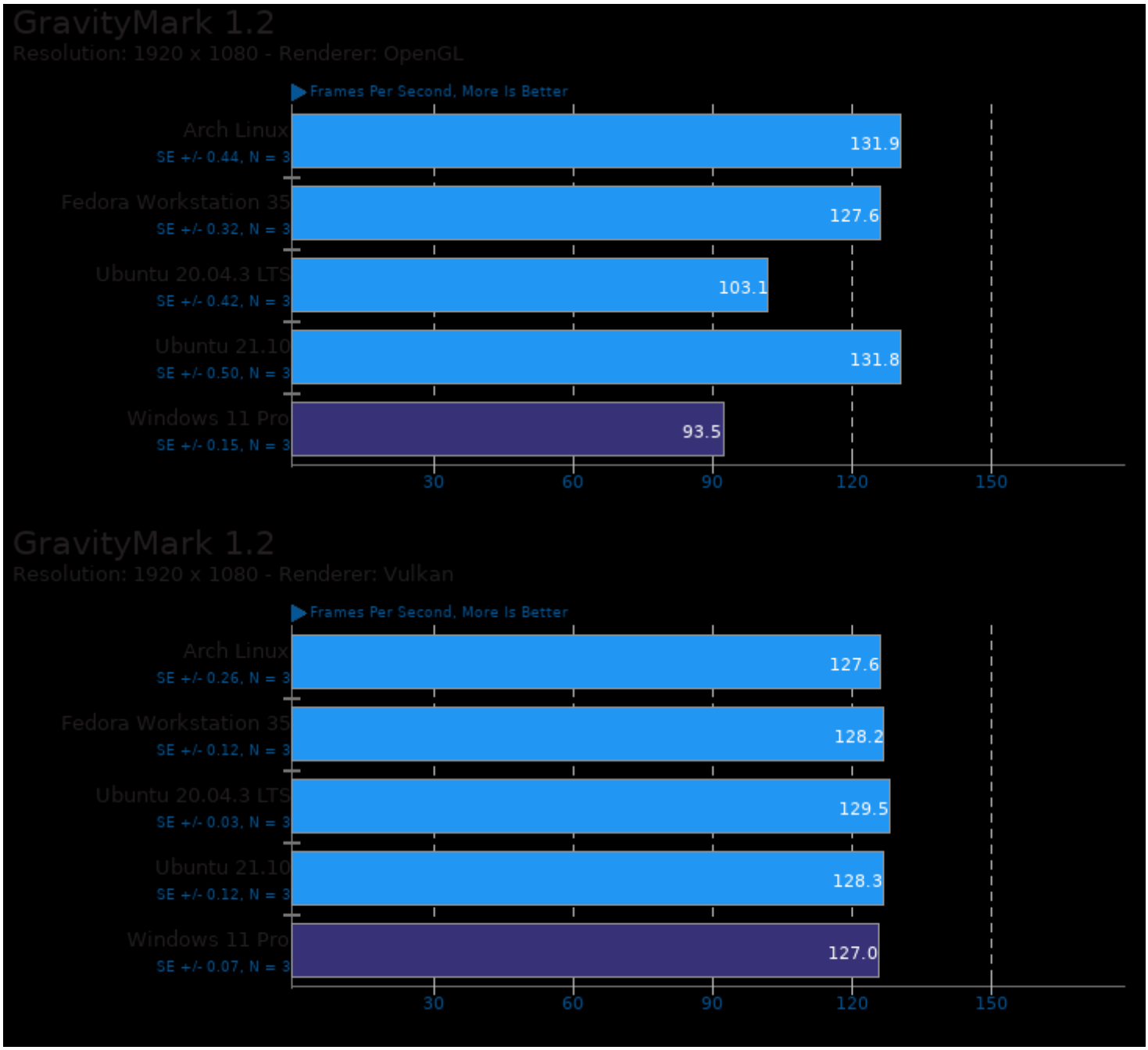
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Standard Deviation	0.7%	0.2%	0.1%	0.3%	0.2%
IndigoBench - CPU - Supercar (M samples/s)	4.749	4.855	4.831	4.773	4.812
Normalized	97.82%	100%	99.51%	98.31%	99.11%
Standard Deviation	0.1%	0.1%	0.2%	0.2%	0.2%
Blender - BMW27 - CPU-Only (sec)	157.69	133.02	132.79	134.24	133.29
Normalized	84.21%	99.83%	100%	98.92%	99.62%
Standard Deviation	0.1%	0.1%	0.3%	0.3%	0.1%
Blender - Classroom - CPU-Only (sec)	465.87	397.04	413.03	401.46	399.09
Normalized	85.23%	100%	96.13%	98.9%	99.49%
Standard Deviation	0.2%	0.3%	5.5%	0.1%	0.3%
Blender - Fishy Cat - CPU-Only (sec)	213.61	181.69	189.39	183.48	182.99
Normalized	85.06%	100%	95.93%	99.02%	99.29%
Standard Deviation	0.4%	0.2%	9.2%	0.3%	0.2%
Blender - Barbershop - CPU-Only (sec)	644.71	549.13	565.38	550.94	549.94
Normalized	85.17%	100%	97.13%	99.67%	99.85%
Standard Deviation	0.2%	0.1%	3.8%	0.1%	0.1%
Blender - Pabellon Barcelona - CPU-Only (sec)	500.85	446.66	446.52	446.33	449.89
Normalized	89.11%	99.93%	99.96%	100%	99.21%
Standard Deviation	0%	0.4%	0%	0.1%	0.4%
PyBench - T.F.A.T.T	885	650	672	742	619
Normalized	69.94%	95.23%	92.11%	83.42%	100%
Standard Deviation	0.5%	1.1%	0.8%	0.8%	0.8%
Appleseed - Emily (sec)	345.843	324.630903	326.918854	325.441982	330.67885
Normalized	93.87%	100%	99.3%	99.75%	98.17%
Appleseed - Disney Material	191.63	182.333552	182.330658	183.019537	182.281999
Normalized	95.12%	99.97%	99.97%	99.6%	100%
Appleseed - Material Tester (sec)	188.279	174.461617	174.669572	175.050026	173.832714
Normalized	92.33%	99.64%	99.52%	99.3%	100%
PHPBench - P.B.S (Score)	677552	1239450	1243607	1200263	1151920
Normalized	54.48%	99.67%	100%	96.51%	92.63%
Standard Deviation	1.3%	1.1%	0.7%	0.5%	0.9%
WavPack Audio Encoding - WAV To WavPack (sec)	11.659	11.753	11.741	11.743	11.789
Normalized	100%	99.2%	99.3%	99.28%	98.9%
Standard Deviation	0.1%	0.2%	0.1%	0.1%	0%
Git - T.T.C.C.G.C (sec)	56.131	36.751	37.121	37.353	39.005
Normalized	65.47%	100%	99%	98.39%	94.22%
Standard Deviation	0.2%	0.1%	0.1%	0.1%	0.2%
Chaos Group V-RAY - CPU (vsamples)	11272	12383	12509	12331	12477
Normalized	90.11%	98.99%	100%	98.58%	99.74%
Standard Deviation	0.5%	0.5%	0.2%	0.6%	0.2%
GIMP - resize (sec)		5.709		5.369	
Normalized		94.04%		100%	
Standard Deviation		1.8%		2.3%	
GIMP - rotate (sec)		8.235		8.008	
Normalized		97.24%		100%	
Standard Deviation		0.5%		0.4%	

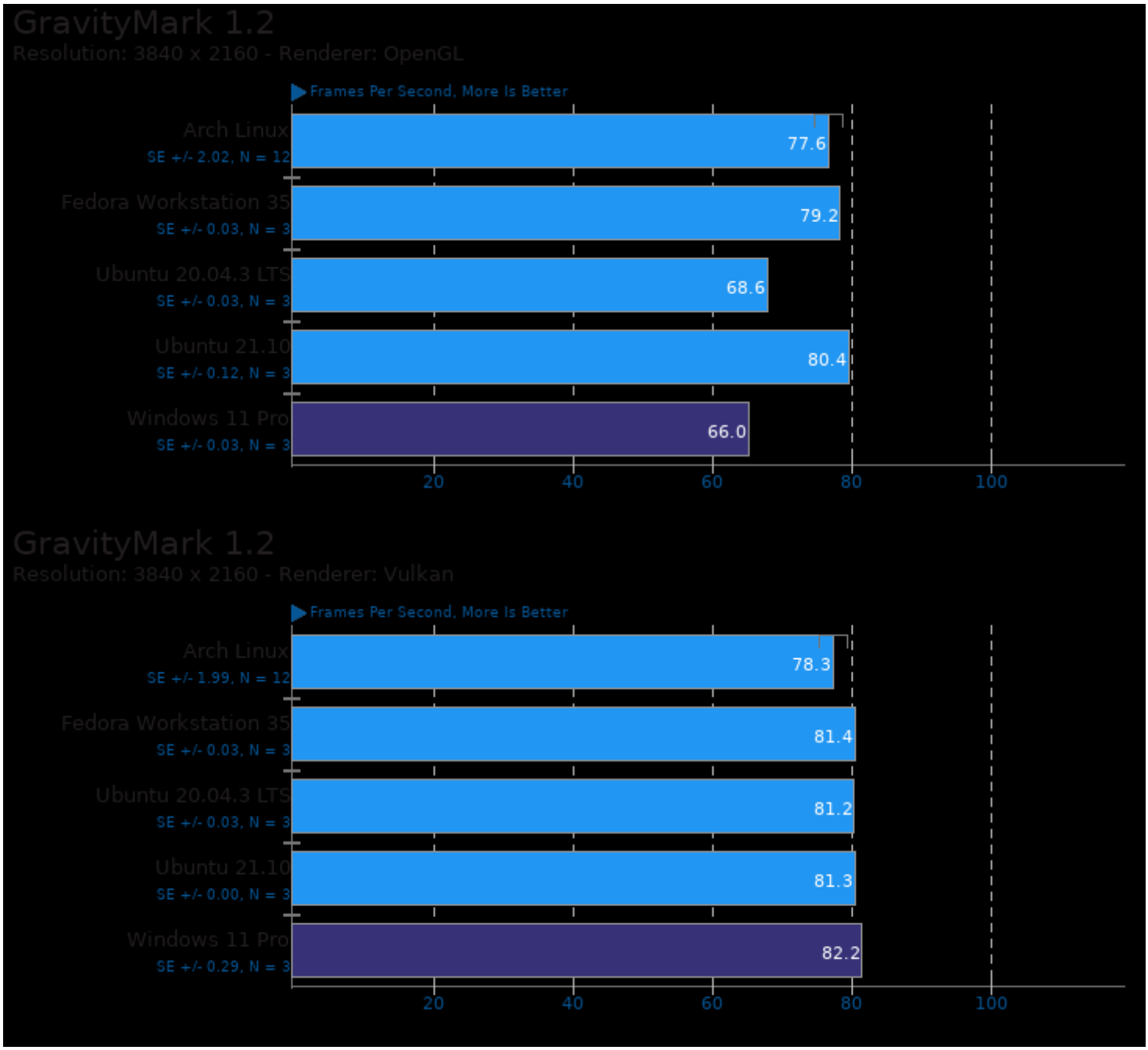
Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

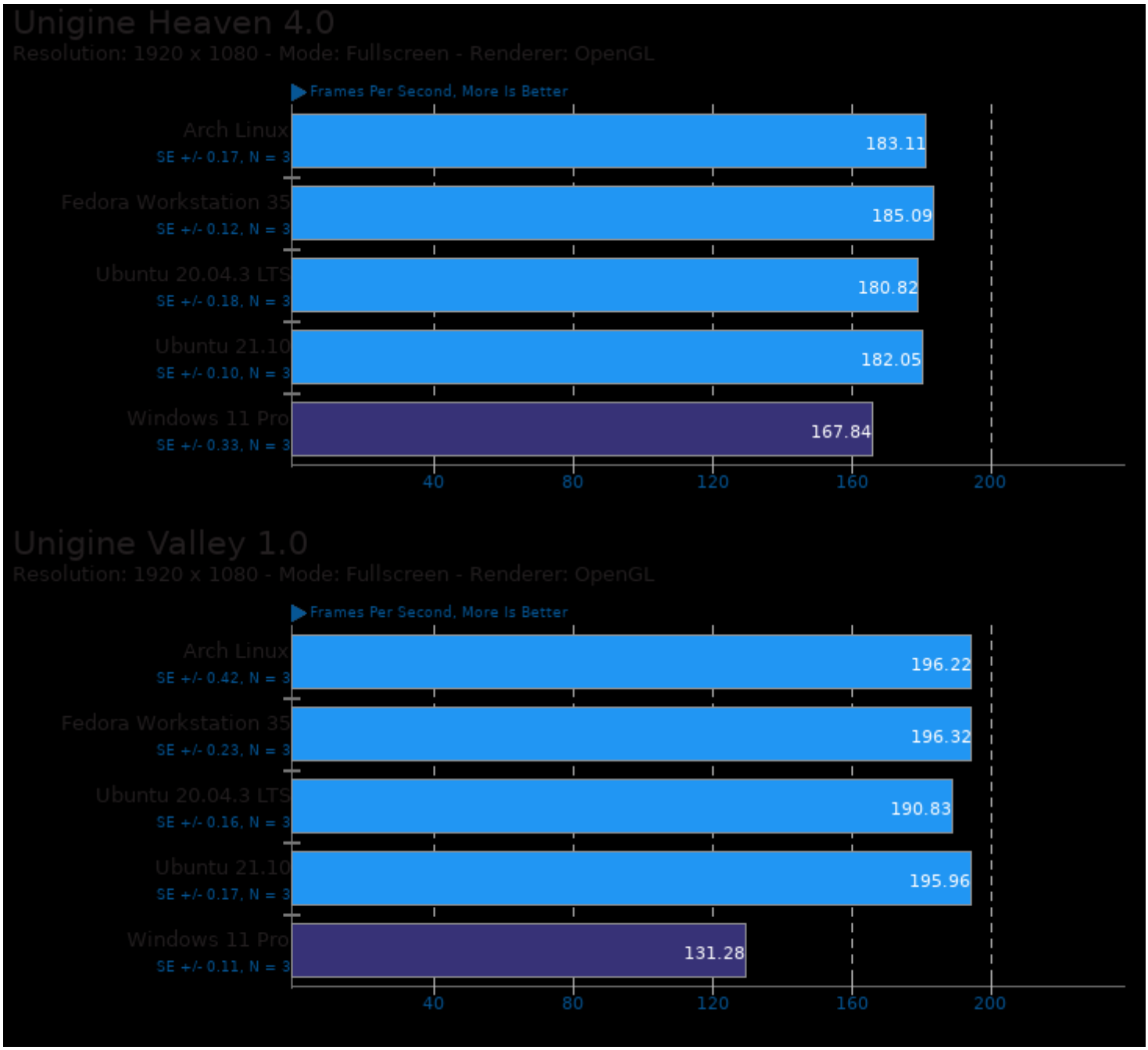
GIMP - auto-levels (sec)	**8.603**	**8.302**	
Normalized	96.5%	100%	
Standard Deviation	0.1%	0%	
GIMP - unsharp-mask (sec)	**10.406**	**10.163**	
Normalized	97.66%	100%	
Standard Deviation	0.1%	0.2%	
GIMP - resize (sec)			**5.415**
Normalized			100%
Standard Deviation			0.2%
GIMP - rotate (sec)			**8.063**
Normalized			100%
Standard Deviation			0.1%
GIMP - auto-levels (sec)			**8.410**
Normalized			100%
Standard Deviation			0.1%
GIMP - unsharp-mask (sec)			**10.329**
Normalized			100%
Standard Deviation			0.2%

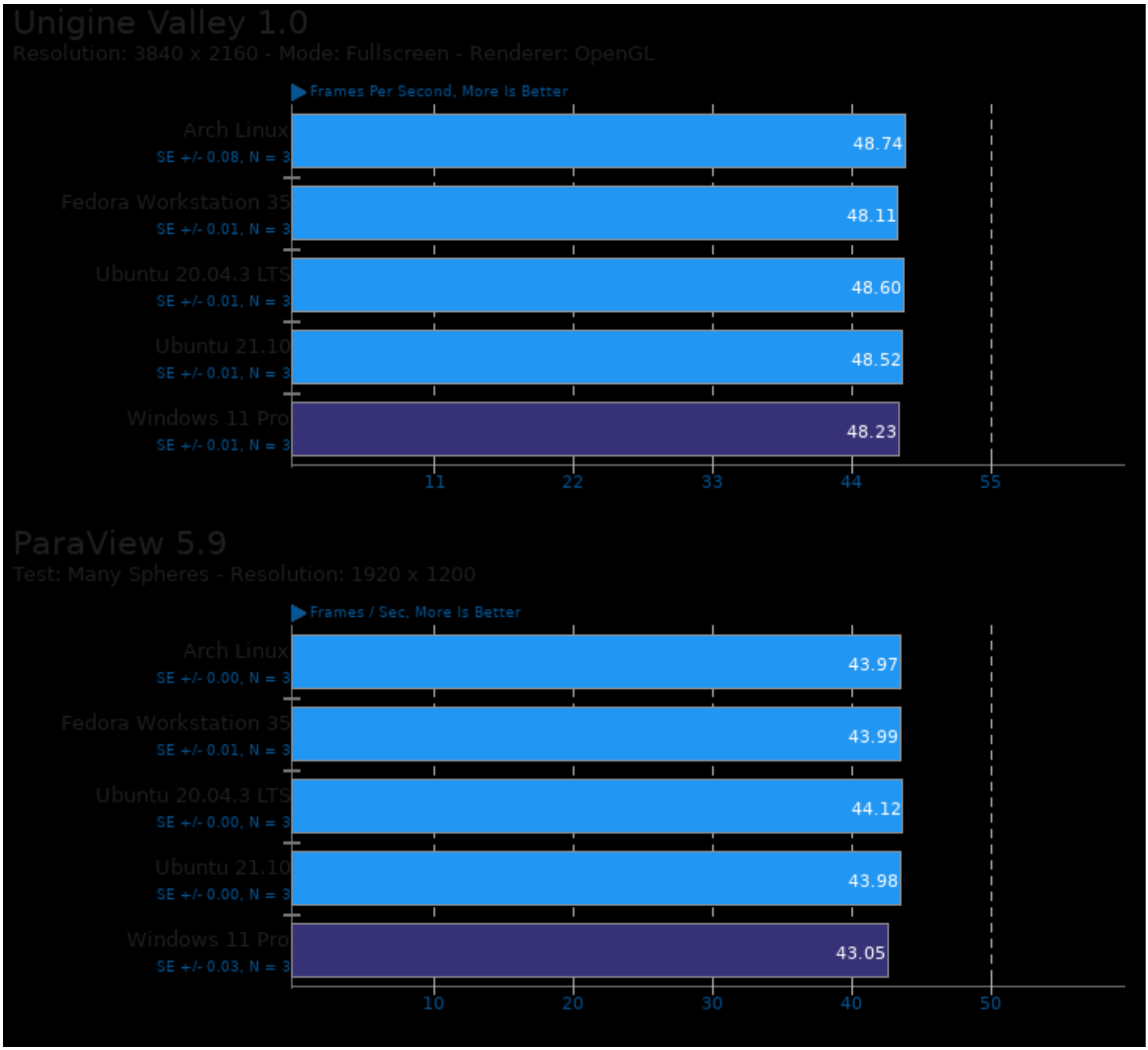
Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

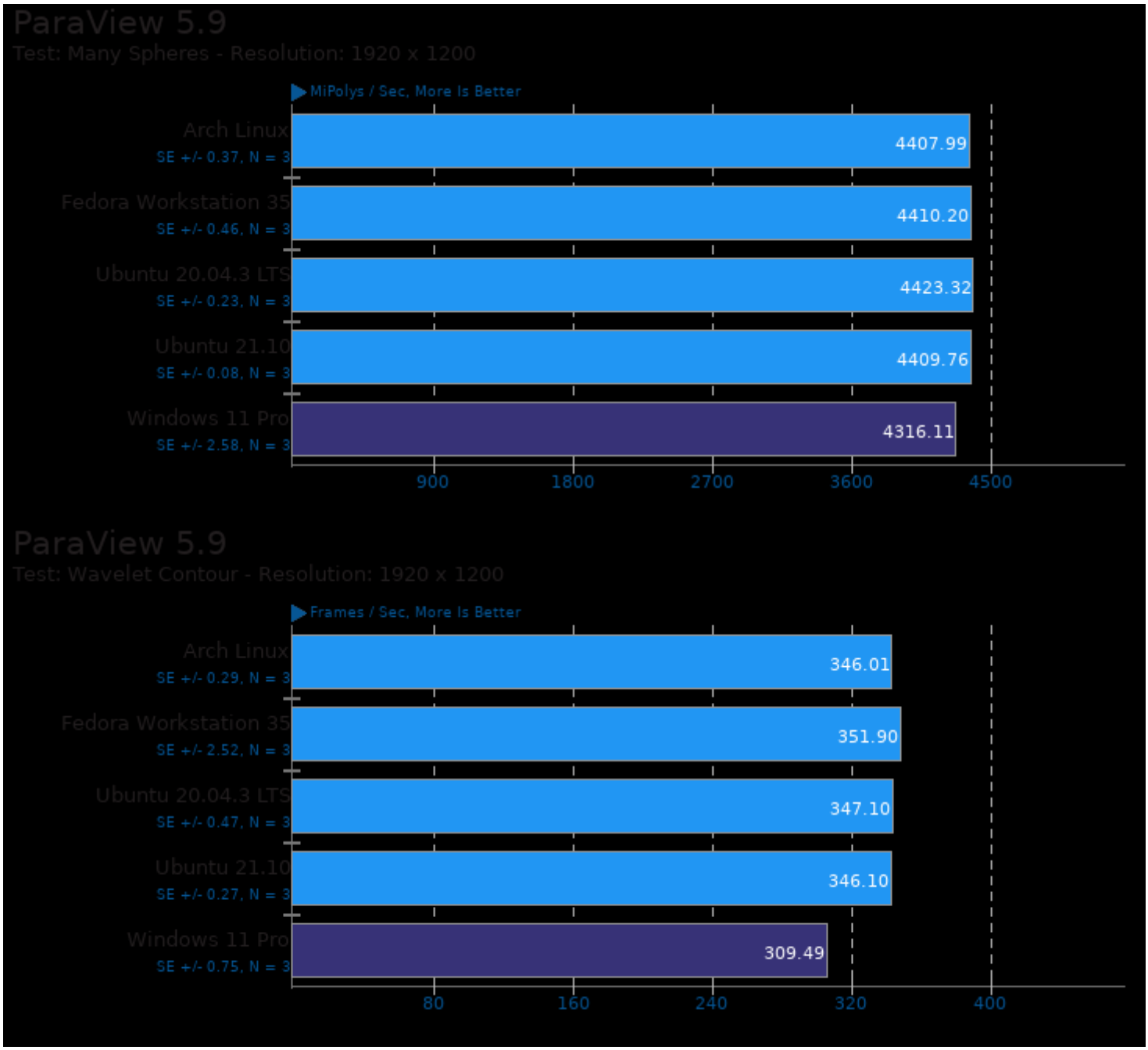


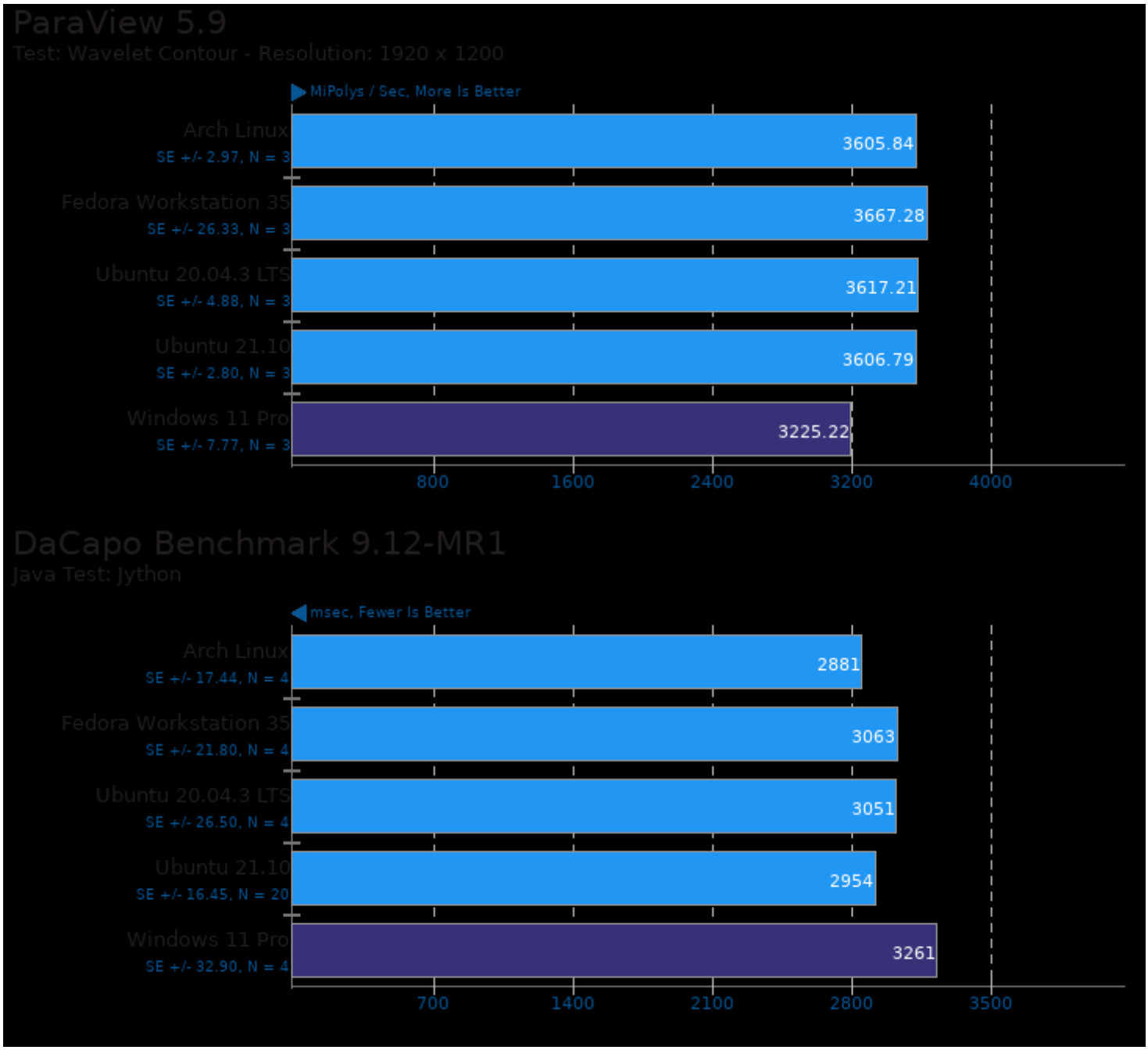
Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

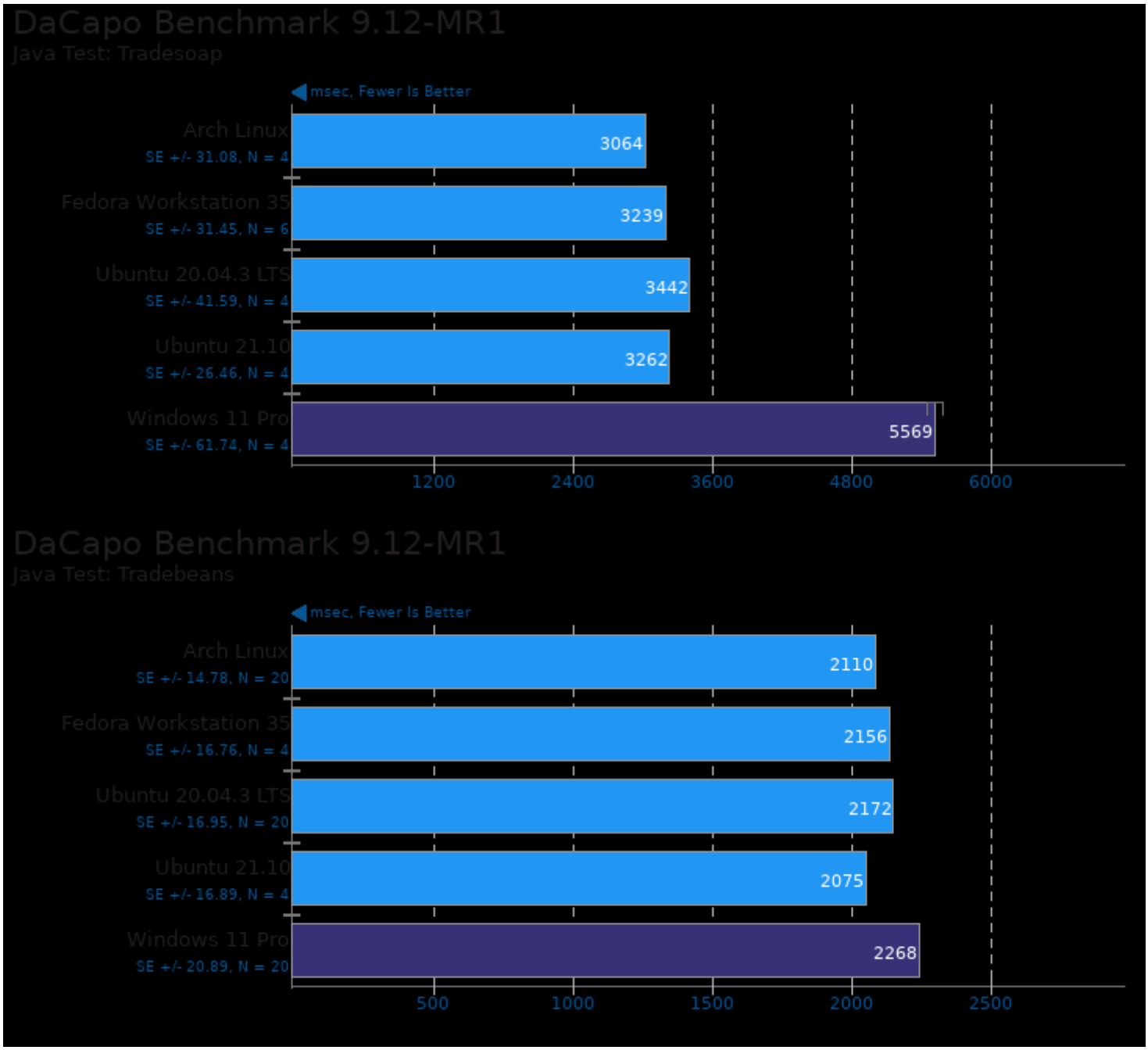


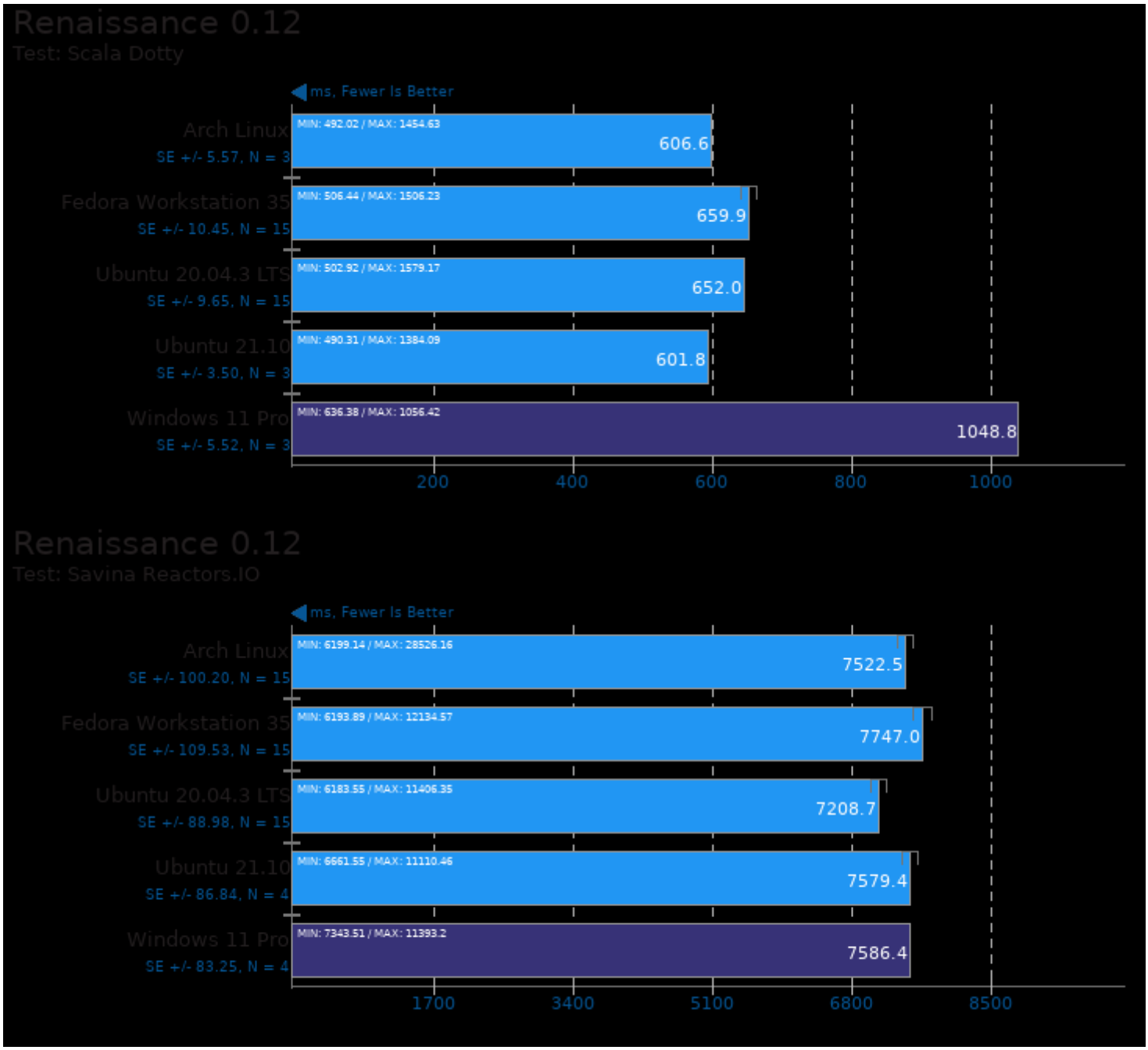

Unigine Heaven 4.0
Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL
Frames Per Second, More Is Better
Arch Linux
SE +/- 0.17, N = 3
183.11
Fedora Workstation 35
SE +/- 0.12, N = 3
185.09
Ubuntu 20.04.3 LTS
SE +/- 0.18, N = 3
180.82
Ubuntu 21.10
SE +/- 0.10, N = 3
182.05
Windows 11 Pro
SE +/- 0.33, N = 3
167.84
40
80
120
160
200
Unigine Valley 1.0
Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL
Frames Per Second, More Is Better
Arch Linux
SE +/- 0.42, N = 3
196.22
Fedora Workstation 35
SE +/- 0.23, N = 3
196.32
Ubuntu 20.04.3 LTS
SE +/- 0.16, N = 3
190.83
Ubuntu 21.10
SE +/- 0.17, N = 3
195.96
Windows 11 Pro
SE +/- 0.11, N = 3
131.28
40
80
120
160
200


Unigine Valley 1.0
Resolution: 3840 x 2160 - Mode: Fullscreen - Renderer: OpenGL
Frames Per Second, More Is Better
Arch Linux
SE +/- 0.08, N = 3
48.74
Fedora Workstation 35
SE +/- 0.01, N = 3
48.11
Ubuntu 20.04.3 LTS
SE +/- 0.01, N = 3
48.60
Ubuntu 21.10
SE +/- 0.01, N = 3
48.52
Windows 11 Pro
SE +/- 0.01, N = 3
48.23
11
22
33
44
55
ParaView 5.9
Test: Many Spheres - Resolution: 1920 x 1200
Frames / Sec, More Is Better
Arch Linux
SE +/- 0.00, N = 3
43.97
Fedora Workstation 35
SE +/- 0.01, N = 3
43.99
Ubuntu 20.04.3 LTS
SE +/- 0.00, N = 3
44.12
Ubuntu 21.10
SE +/- 0.00, N = 3
43.98
Windows 11 Pro
SE +/- 0.03, N = 3
43.05
10
20
30
40
50

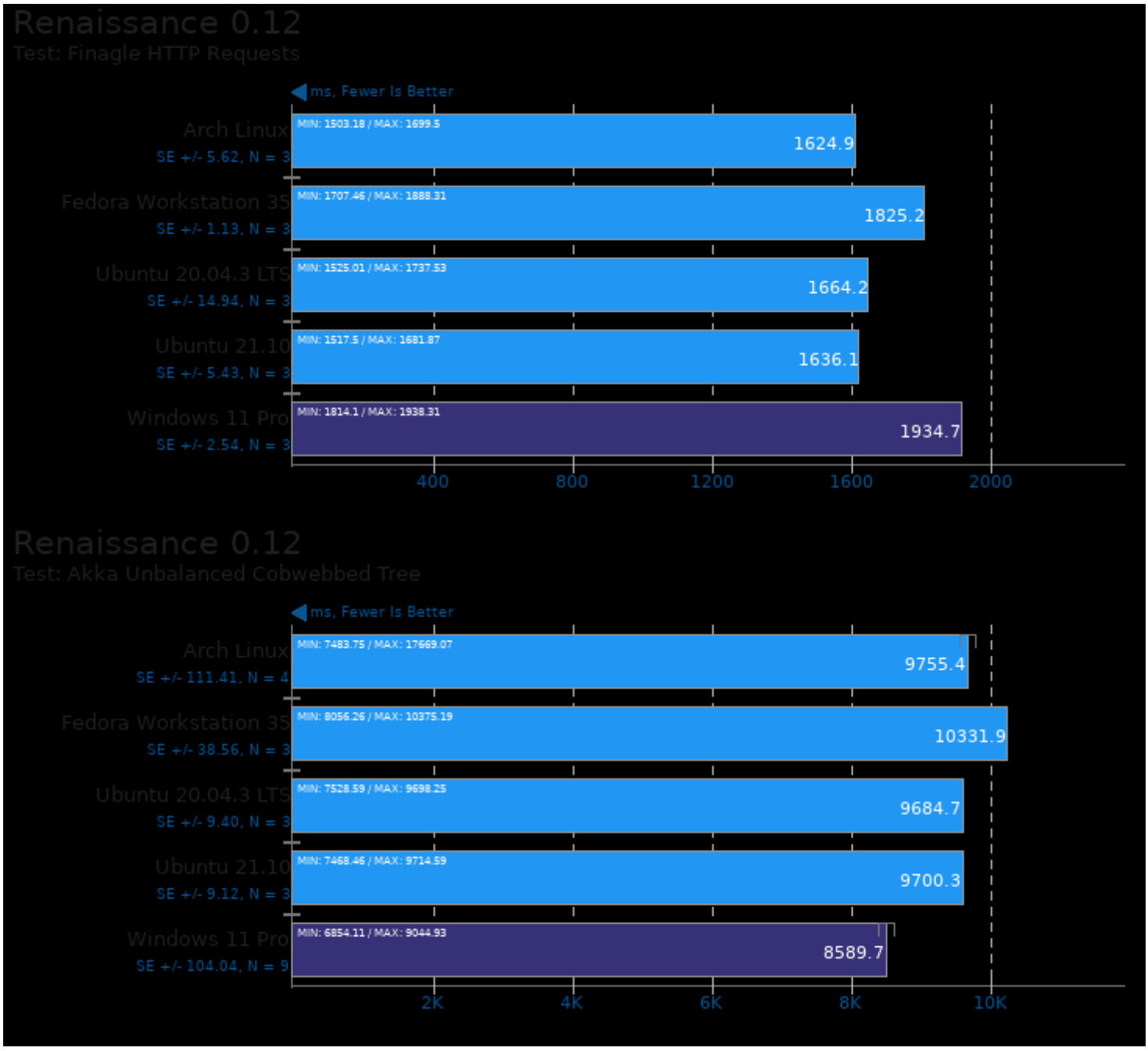

ParaView 5.9
Test: Many Spheres - Resolution: 1920 x 1200
MiPolys / Sec, More Is Better
Arch Linux
SE +/- 0.37, N = 3
4407.99
Fedora Workstation 35
SE +/- 0.46, N = 3
4410.20
Ubuntu 20.04.3 LTS
SE +/- 0.23, N = 3
4423.32
Ubuntu 21.10
SE +/- 0.08, N = 3
4409.76
Windows 11 Pro
SE +/- 2.58, N = 3
4316.11
900
1800
2700
3600
4500
ParaView 5.9
Test: Wavelet Contour - Resolution: 1920 x 1200
Frames / Sec, More Is Better
Arch Linux
SE +/- 0.29, N = 3
346.01
Fedora Workstation 35
SE +/- 2.52, N = 3
351.90
Ubuntu 20.04.3 LTS
SE +/- 0.47, N = 3
347.10
Ubuntu 21.10
SE +/- 0.27, N = 3
346.10
Windows 11 Pro
SE +/- 0.75, N = 3
309.49
80
160
240
320
400

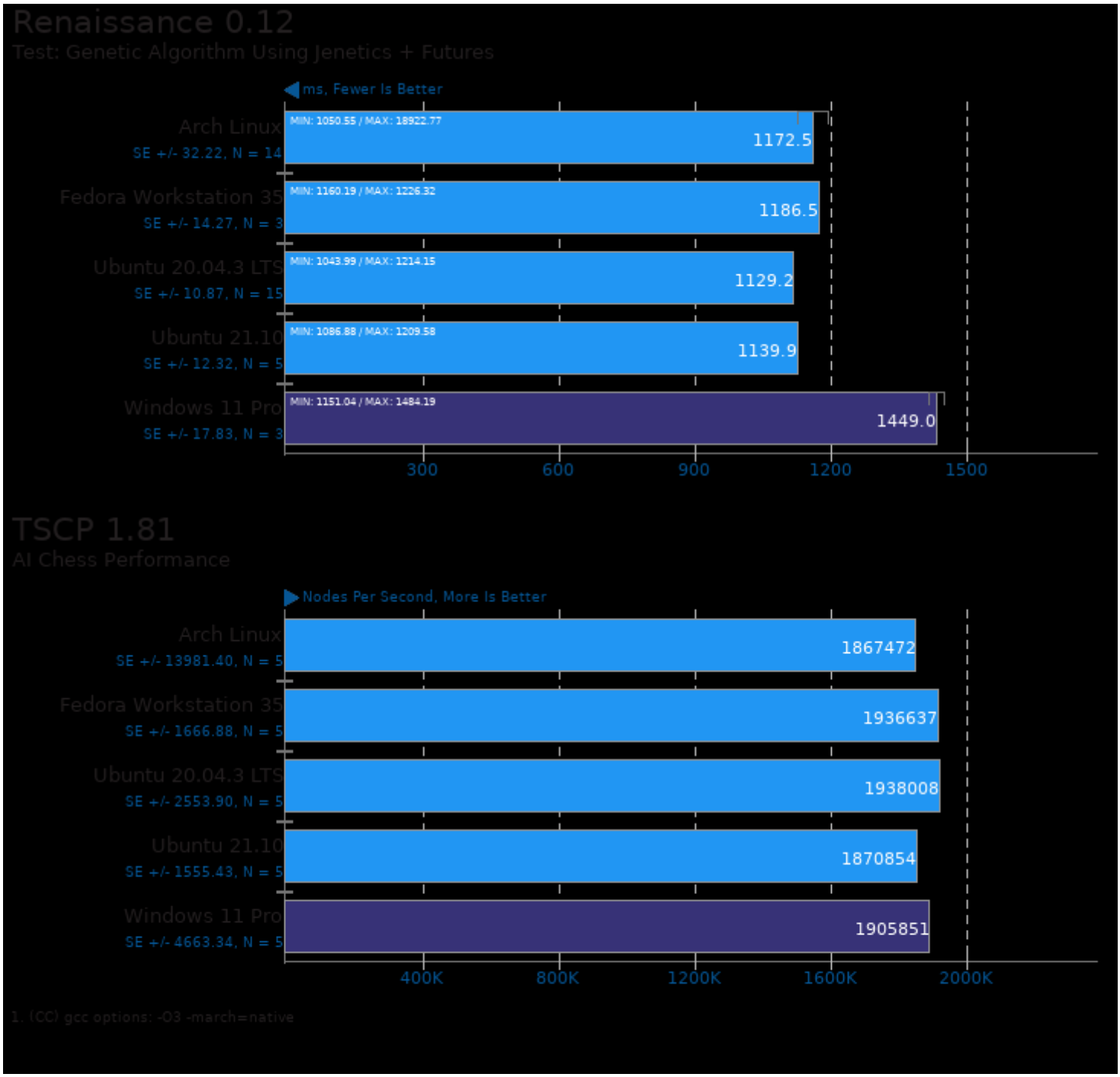

ParaView 5.9
Test: Wavelet Contour - Resolution: 1920 x 1200
MiPolys / Sec, More Is Better
Arch Linux
SE +/- 2.97, N = 3
3605.84
Fedora Workstation 35
SE +/- 26.33, N = 3
3667.28
Ubuntu 20.04.3 LTS
SE +/- 4.88, N = 3
3617.21
Ubuntu 21.10
SE +/- 2.80, N = 3
3606.79
Windows 11 Pro
SE +/- 7.77, N = 3
3225.22
800
1600
2400
3200
4000
DaCapo Benchmark 9.12-MR1
Java Test: Jython
msec, Fewer Is Better
Arch Linux
SE +/- 17.44, N = 4
2881
Fedora Workstation 35
SE +/- 21.80, N = 4
3063
Ubuntu 20.04.3 LTS
SE +/- 26.50, N = 4
3051
Ubuntu 21.10
SE +/- 16.45, N = 20
2954
Windows 11 Pro
SE +/- 32.90, N = 4
3261
700
1400
2100
2800
3500


DaCapo Benchmark 9.12-MR1
Java Test: Tradesoap
msec, Fewer Is Better
Arch Linux
SE +/- 31.08, N = 4
3064
Fedora Workstation 35
SE +/- 31.45, N = 6
3239
Ubuntu 20.04.3 LTS
SE +/- 41.59, N = 4
3442
Ubuntu 21.10
SE +/- 26.46, N = 4
3262
Windows 11 Pro
SE +/- 61.74, N = 4
5569
1200
2400
3600
4800
6000
DaCapo Benchmark 9.12-MR1
Java Test: Tradebeans
msec, Fewer Is Better
Arch Linux
SE +/- 14.78, N = 20
2110
Fedora Workstation 35
SE +/- 16.76, N = 4
2156
Ubuntu 20.04.3 LTS
SE +/- 16.95, N = 20
2172
Ubuntu 21.10
SE +/- 16.89, N = 4
2075
Windows 11 Pro
SE +/- 20.89, N = 20
2268
500
1000
1500
2000
2500

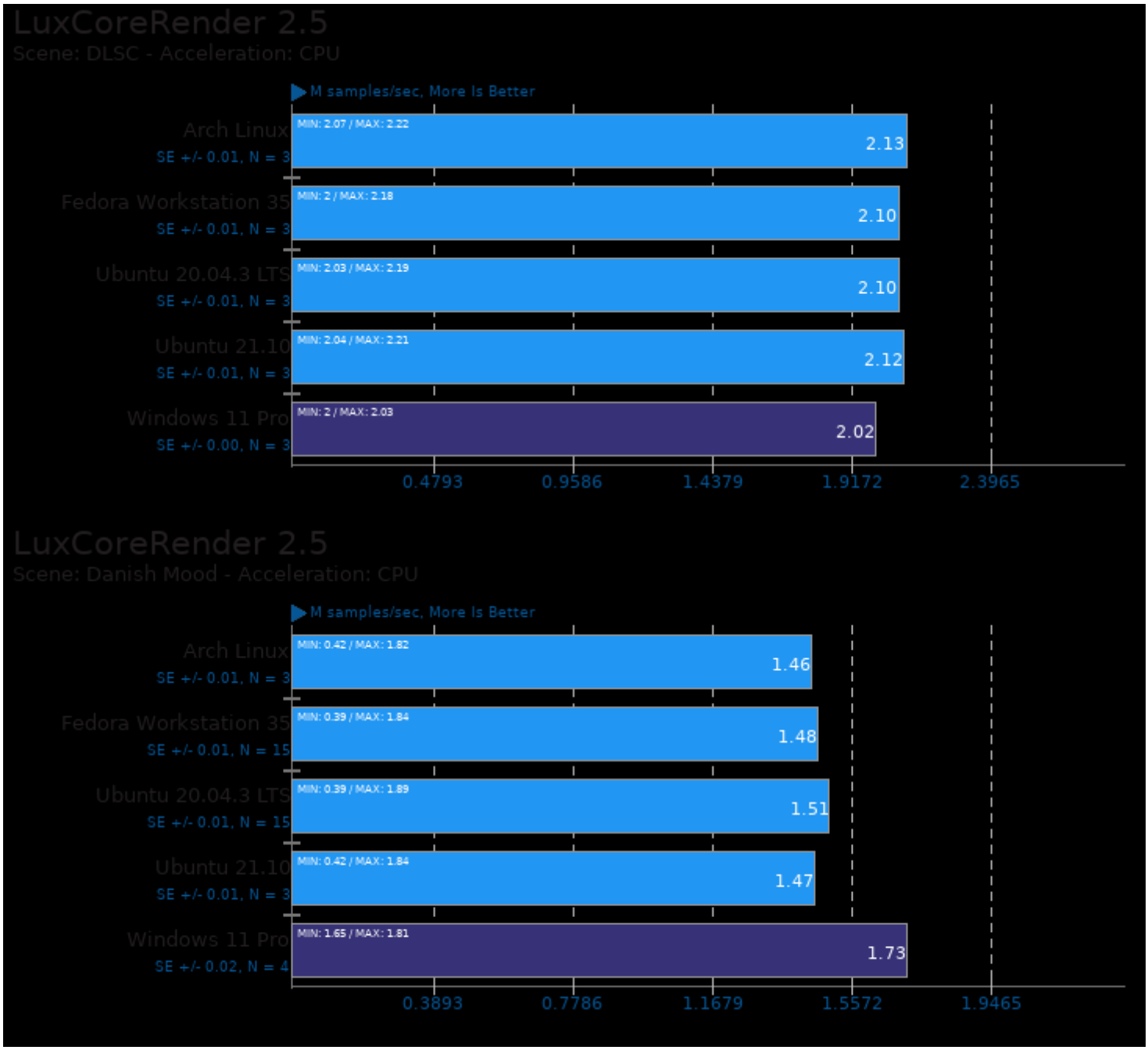

Renaissance 0.12
Test: Scala Dotty
ms, Fewer Is Better
Arch Linux
SE +/- 5.57, N = 3
MIN: 492.02 / MAX: 1454.63
606.6
Fedora Workstation 35
SE +/- 10.45, N = 15
MIN: 506.44 / MAX: 1506.23
659.9
Ubuntu 20.04.3 LTS
SE +/- 9.65, N = 15
MIN: 502.92 / MAX: 1579.17
652.0
Ubuntu 21.10
SE +/- 3.50, N = 3
MIN: 490.31 / MAX: 1384.09
601.8
Windows 11 Pro
SE +/- 5.52, N = 3
MIN: 636.38 / MAX: 1056.42
1048.8
200
400
600
800
1000
Renaissance 0.12
Test: Savina Reactors.IO
ms, Fewer Is Better
Arch Linux
SE +/- 100.20, N = 15
MIN: 6199.14 / MAX: 28526.16
7522.5
Fedora Workstation 35
SE +/- 109.53, N = 15
MIN: 6193.89 / MAX: 12134.57
7747.0
Ubuntu 20.04.3 LTS
SE +/- 88.98, N = 15
MIN: 6183.55 / MAX: 11406.35
7208.7
Ubuntu 21.10
SE +/- 86.84, N = 4
MIN: 6661.55 / MAX: 11110.46
7579.4
Windows 11 Pro
SE +/- 83.25, N = 4
MIN: 7343.51 / MAX: 11393.2
7586.4
1700
3400
5100
6800
8500

Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

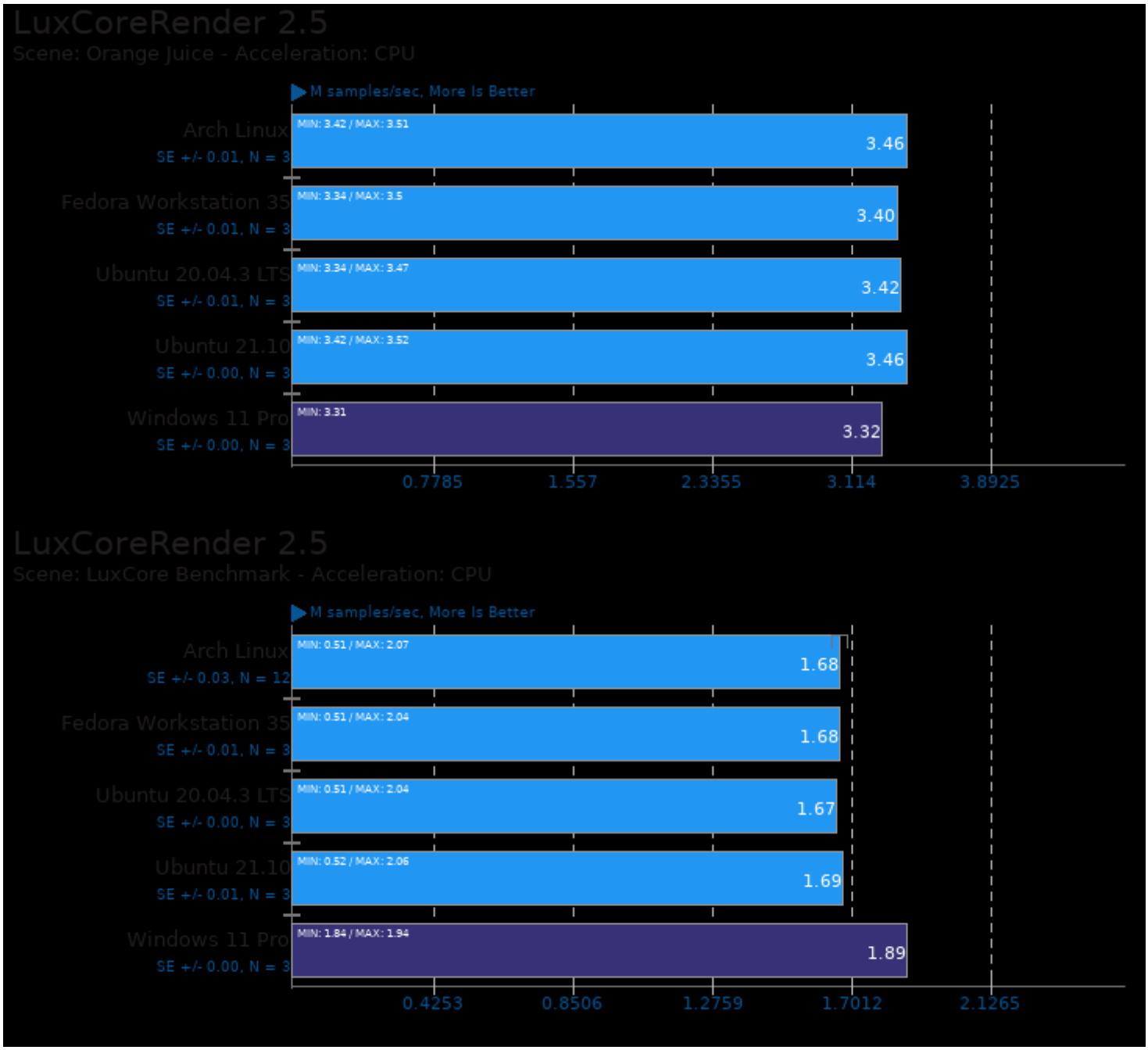



Renaissance 0.12
Test: Genetic Algorithm Using Jenetics + Futures
ms, Fewer Is Better
Arch Linux
SE +/- 32.22, N = 14
MIN: 1050.55 / MAX: 18922.77
1172.5
Fedora Workstation 35
SE +/- 14.27, N = 3
MIN: 1160.19 / MAX: 1226.32
1186.5
Ubuntu 20.04.3 LTS
SE +/- 10.87, N = 15
MIN: 1043.99 / MAX: 1214.15
1129.2
Ubuntu 21.10
SE +/- 12.32, N = 5
MIN: 1086.88 / MAX: 1209.58
1139.9
Windows 11 Pro
SE +/- 17.83, N = 3
MIN: 1151.04 / MAX: 1484.19
1449.0
300
600
900
1200
1500
TSCP 1.81
AI Chess Performance
Nodes Per Second, More Is Better
Arch Linux
SE +/- 13981.40, N = 5
1867472
Fedora Workstation 35
SE +/- 1666.88, N = 5
1936637
Ubuntu 20.04.3 LTS
SE +/- 2553.90, N = 5
1938008
Ubuntu 21.10
SE +/- 1555.43, N = 5
1870854
Windows 11 Pro
SE +/- 4663.34, N = 5
1905851
400K
800K
1200K
1600K
2000K
1. (CC) gcc options: -O3 -march=native

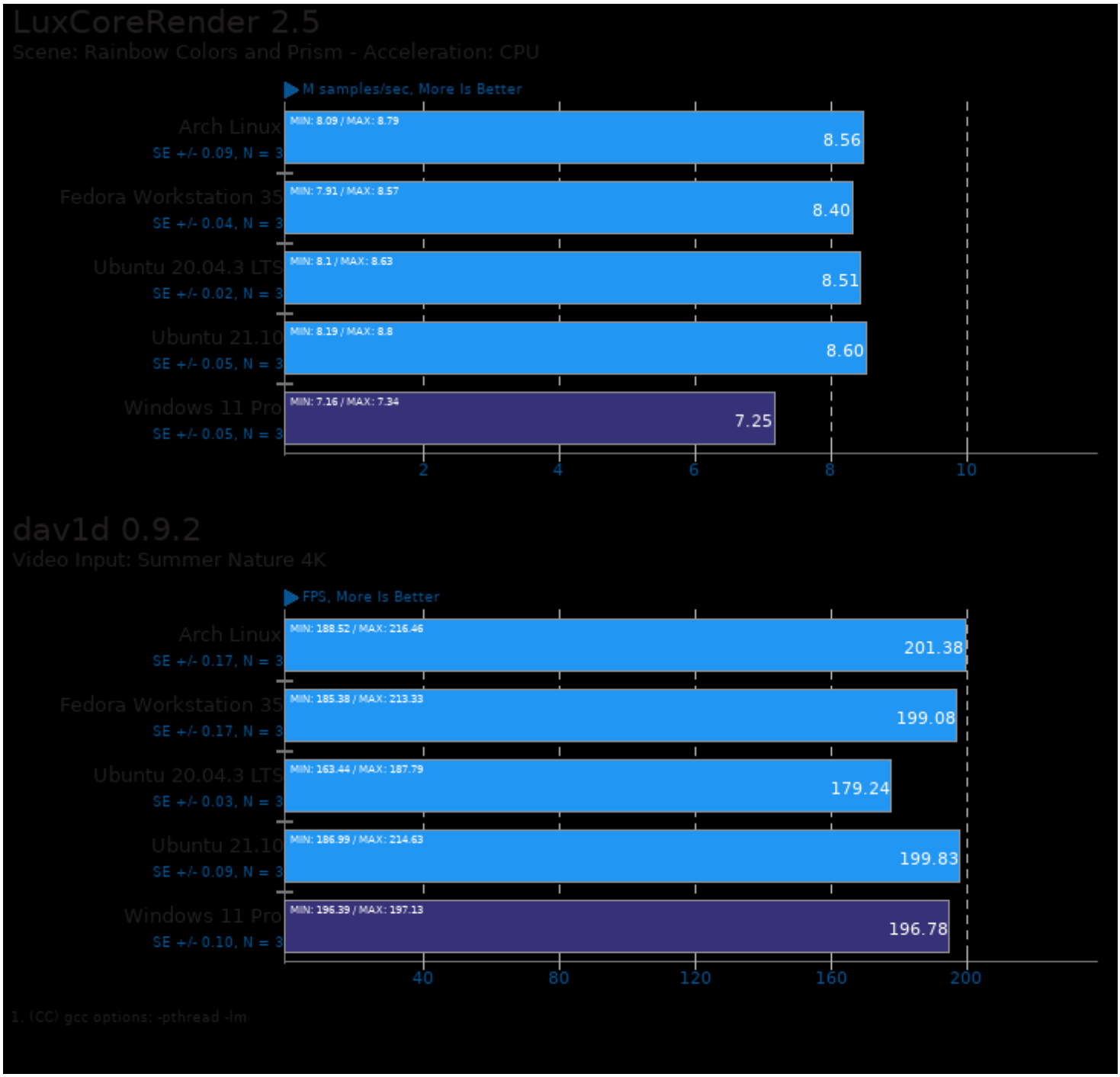
Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

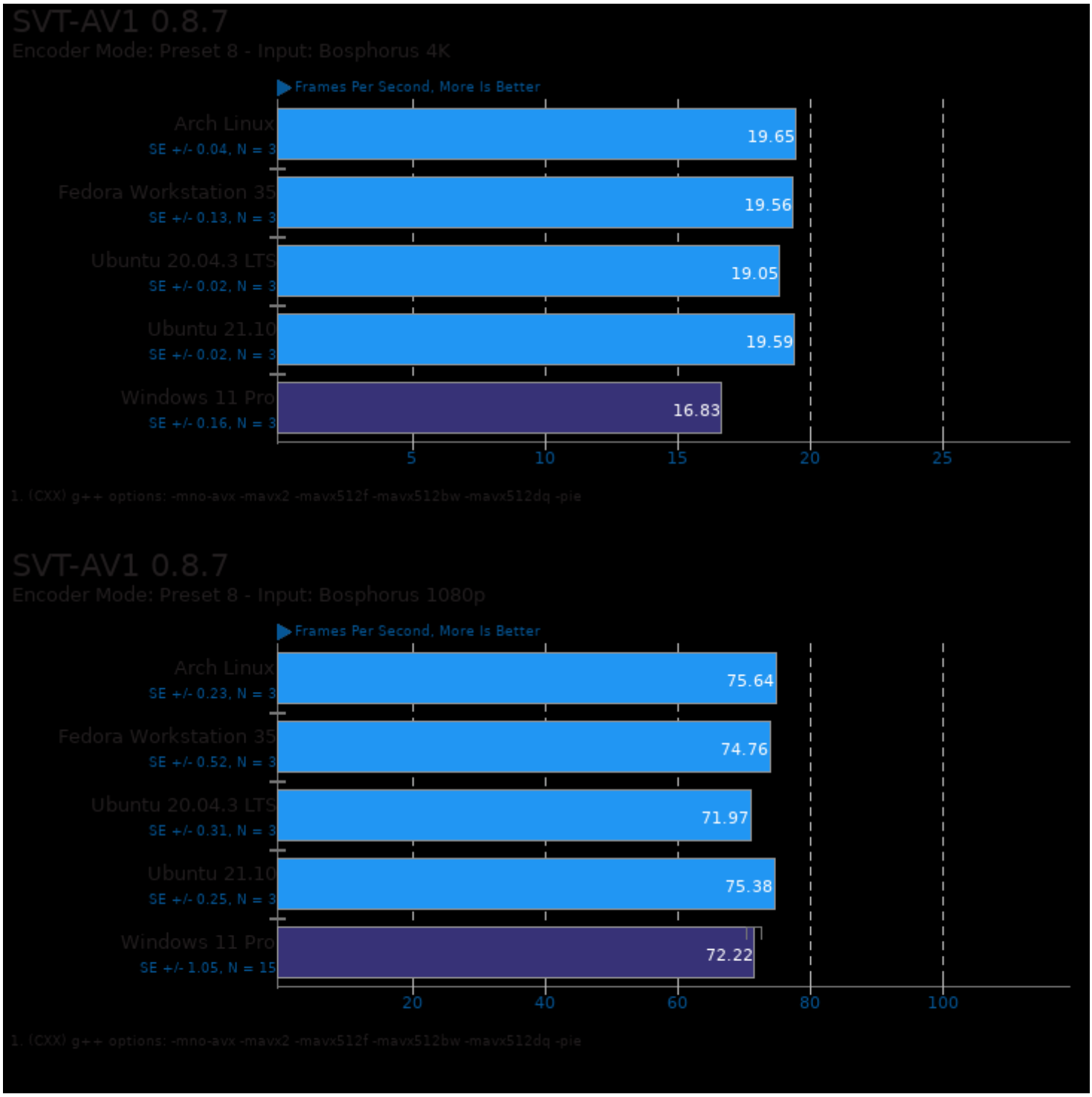


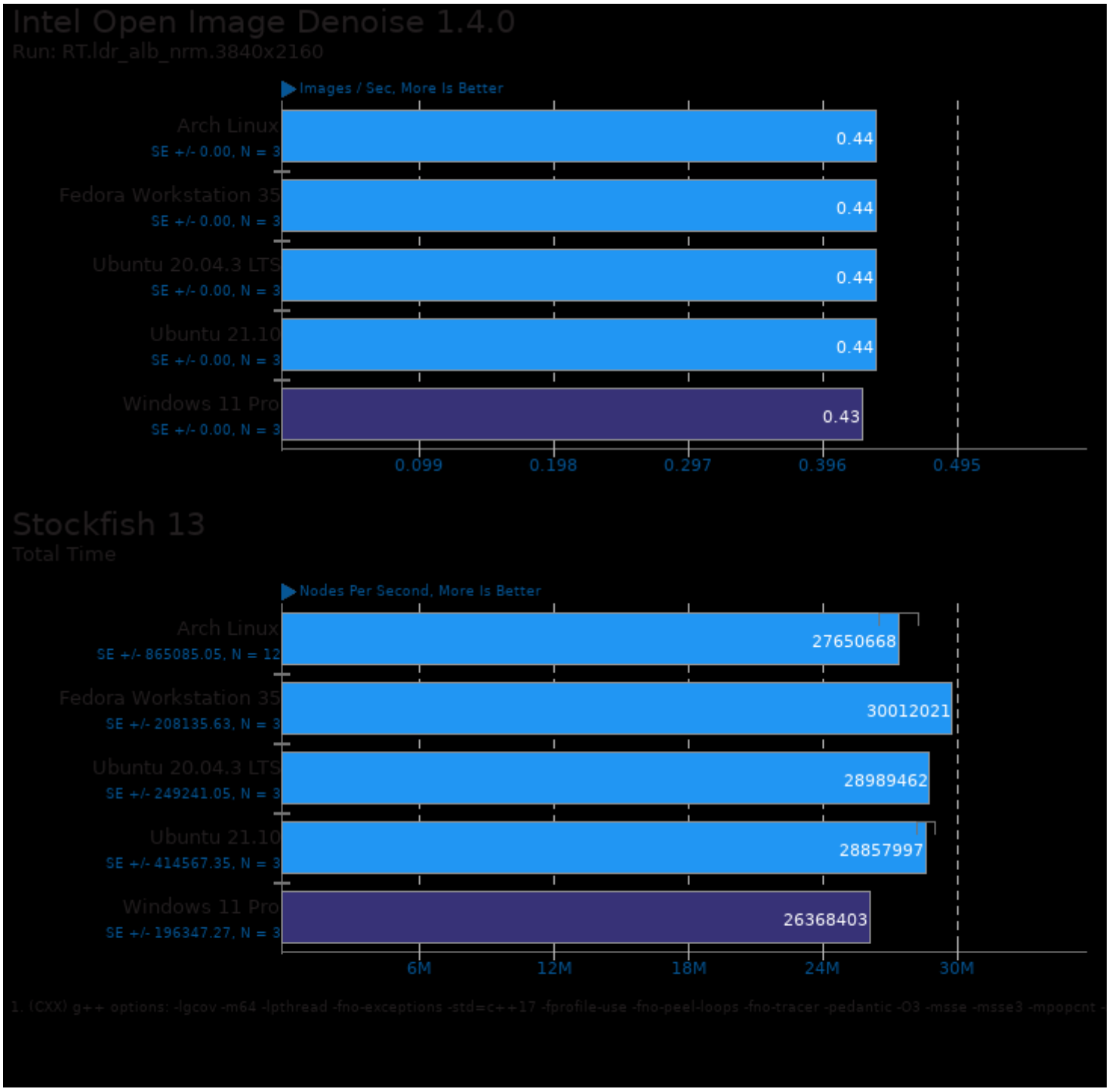
Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



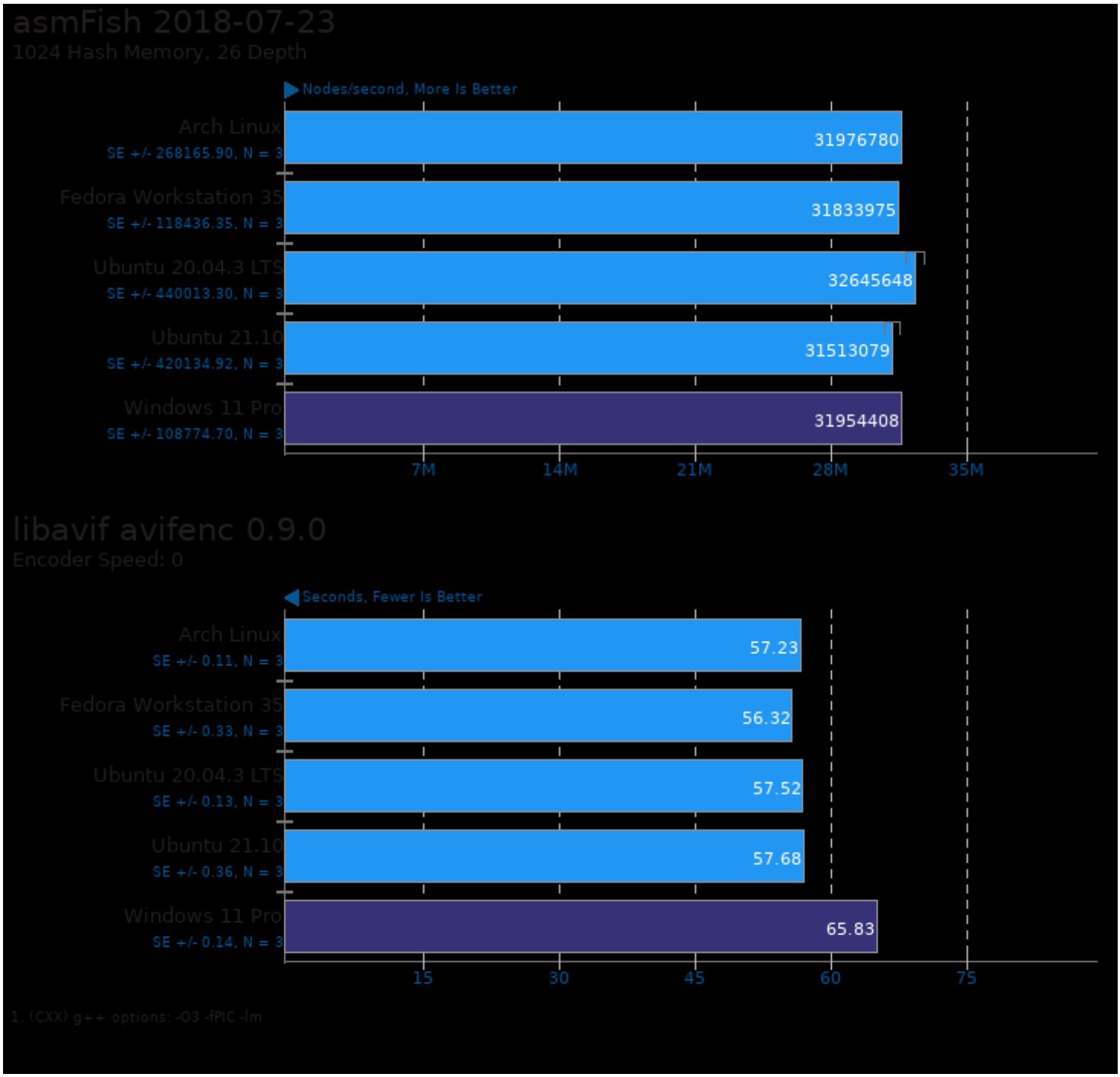
Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

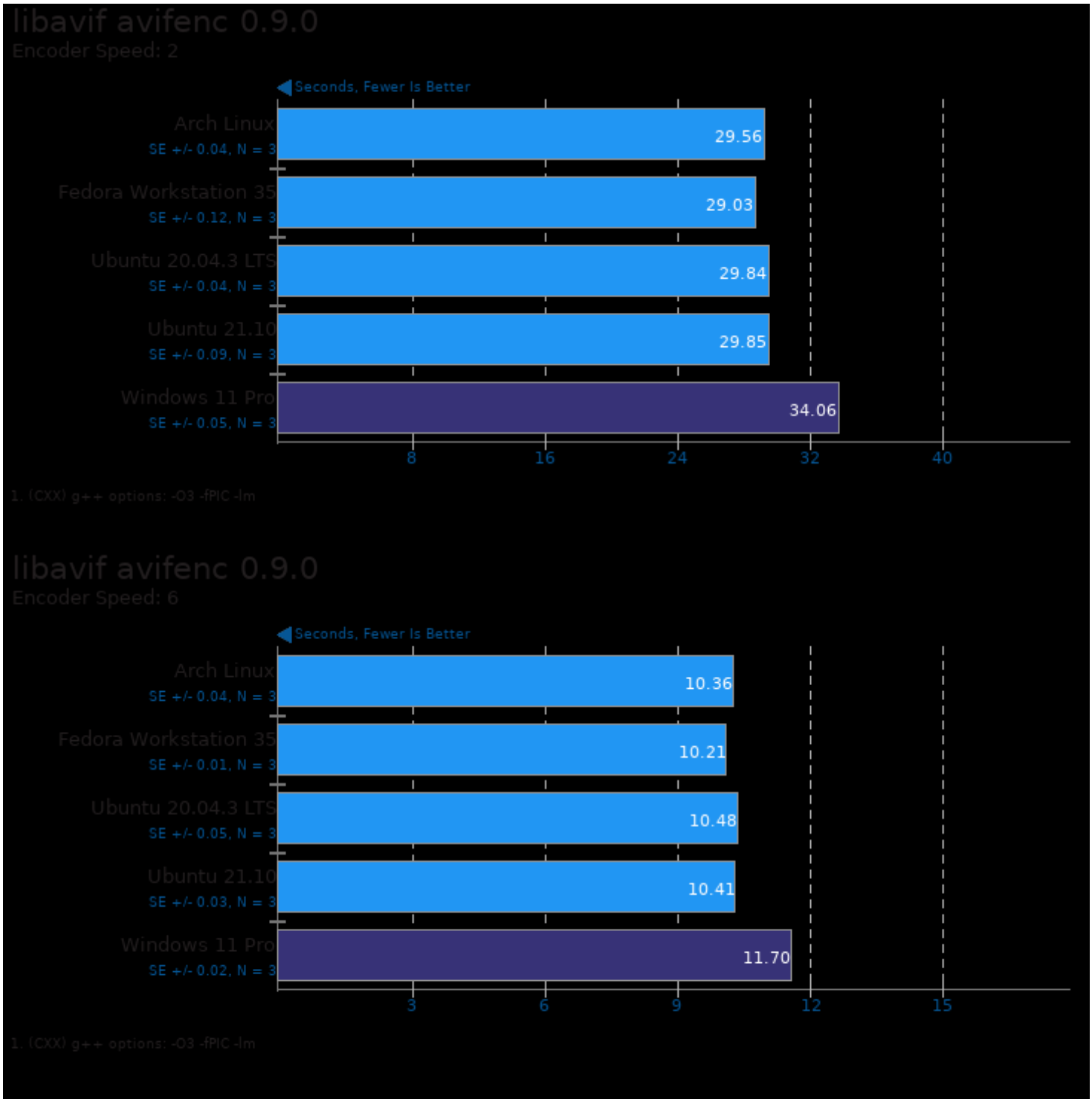


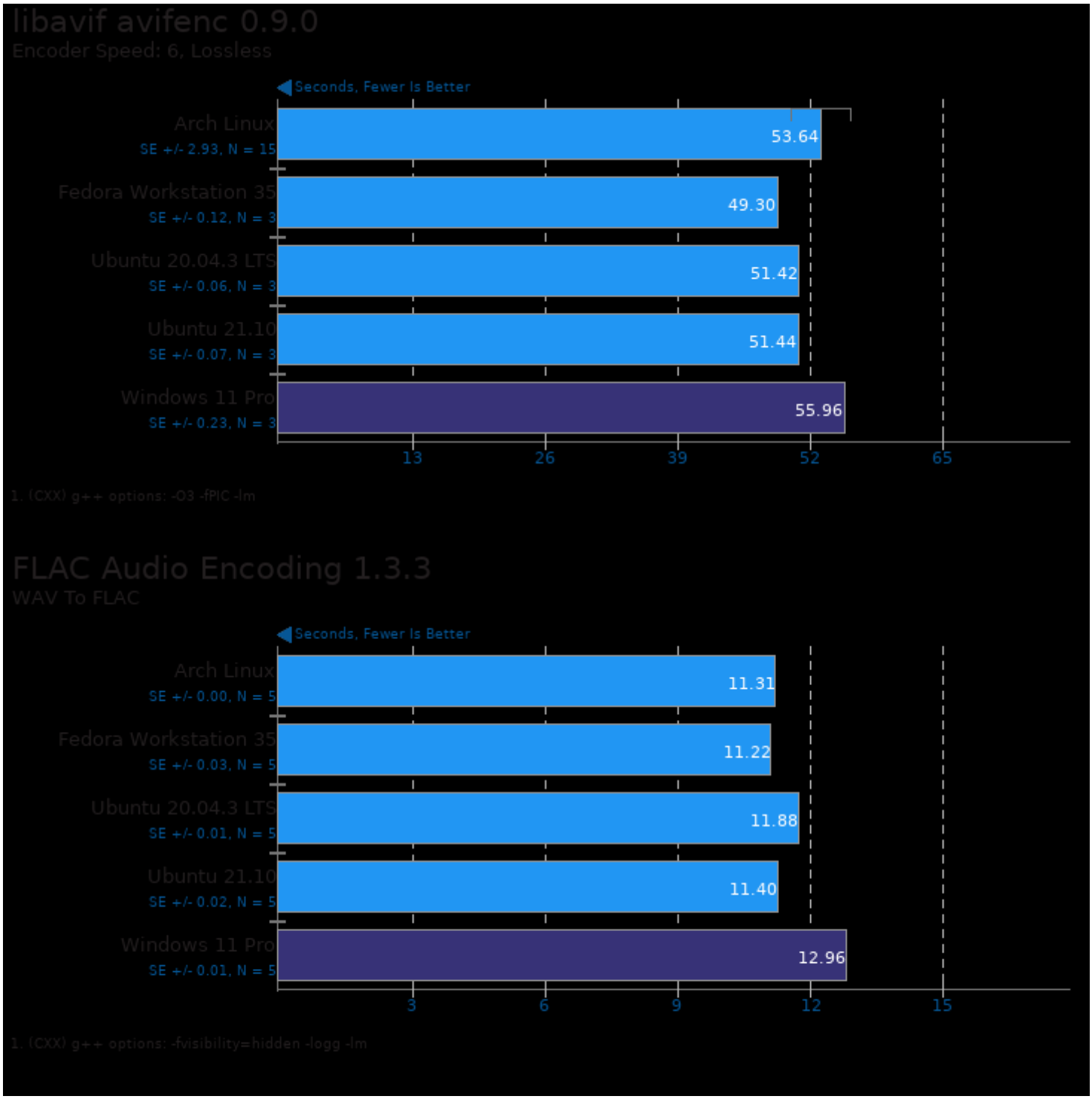

SVT-AV1 0.8.7
Encoder Mode: Preset 8 - Input: Bosphorus 4K
Frames Per Second, More Is Better
Arch Linux
SE +/- 0.04, N = 3
19.65
Fedora Workstation 35
SE +/- 0.13, N = 3
19.56
Ubuntu 20.04.3 LTS
SE +/- 0.02, N = 3
19.05
Ubuntu 21.10
SE +/- 0.02, N = 3
19.59
Windows 11 Pro
SE +/- 0.16, N = 3
16.83
5
10
15
20
25
1. (CXX) g++ options: -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie
SVT-AV1 0.8.7
Encoder Mode: Preset 8 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Arch Linux
SE +/- 0.23, N = 3
75.64
Fedora Workstation 35
SE +/- 0.52, N = 3
74.76
Ubuntu 20.04.3 LTS
SE +/- 0.31, N = 3
71.97
Ubuntu 21.10
SE +/- 0.25, N = 3
75.38
Windows 11 Pro
SE +/- 1.05, N = 15
72.22
20
40
60
80
100
1. (CXX) g++ options: -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

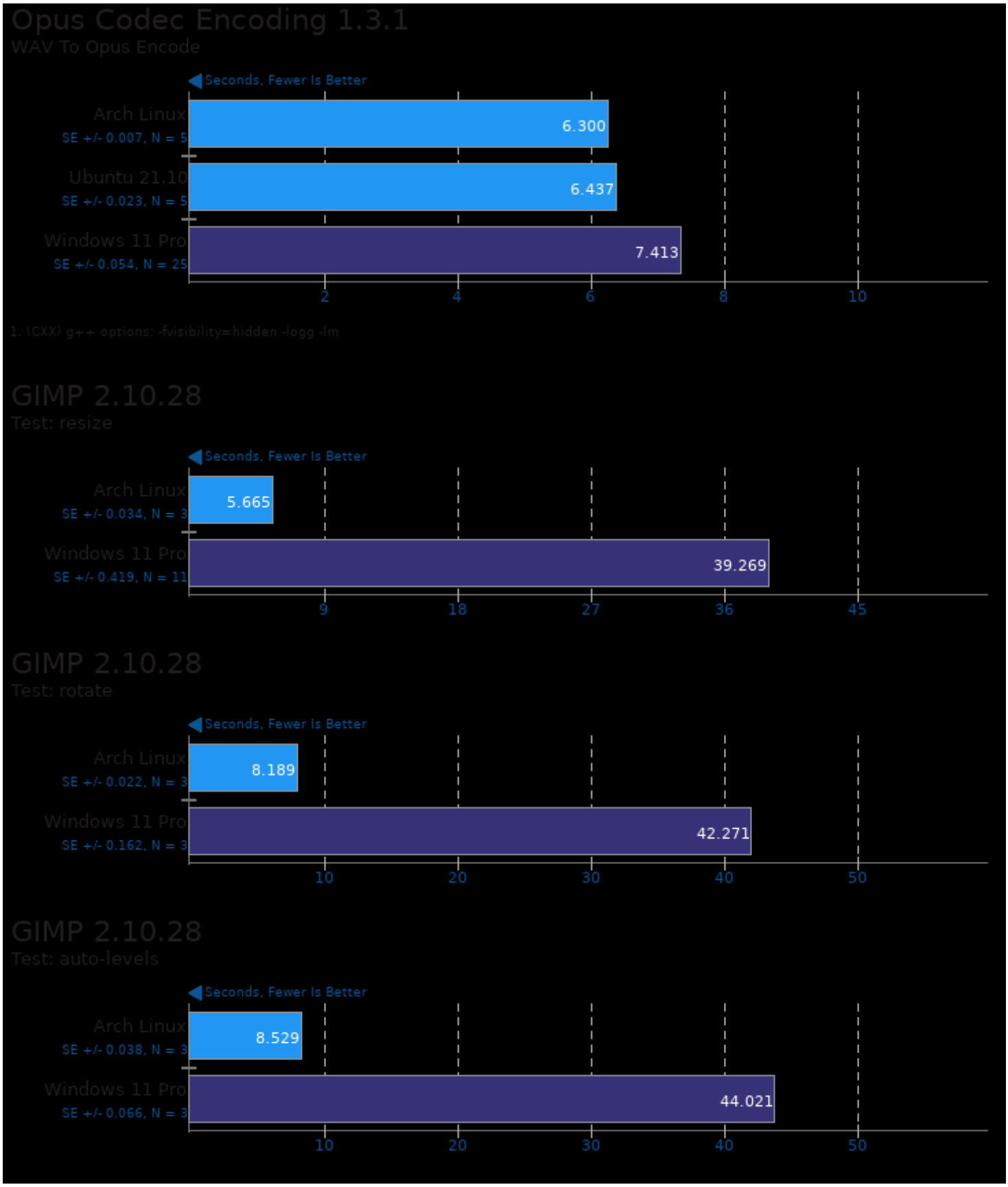

Intel Open Image Denoise 1.4.0
Run: RT.ldr_alb_nrm.3840x2160
Images / Sec, More Is Better
Arch Linux
SE +/- 0.00, N = 3
0.44
Fedora Workstation 35
SE +/- 0.00, N = 3
0.44
Ubuntu 20.04.3 LTS
SE +/- 0.00, N = 3
0.44
Ubuntu 21.10
SE +/- 0.00, N = 3
0.44
Windows 11 Pro
SE +/- 0.00, N = 3
0.43
0.099
0.198
0.297
0.396
0.495
Stockfish 13
Total Time
Nodes Per Second, More Is Better
Arch Linux
SE +/- 865085.05, N = 12
27650668
Fedora Workstation 35
SE +/- 208135.63, N = 3
30012021
Ubuntu 20.04.3 LTS
SE +/- 249241.05, N = 3
28989462
Ubuntu 21.10
SE +/- 414567.35, N = 3
28857997
Windows 11 Pro
SE +/- 196347.27, N = 3
26368403
6M
12M
18M
24M
30M
1. (CXX) g++ options: -lgcov -m64 -lpthread -fno-exceptions -std=c++17 -fprofile-use -fno-peel-loops -fno-tracer -pedantic -O3 -msse -msse3 -mpopcnt

Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

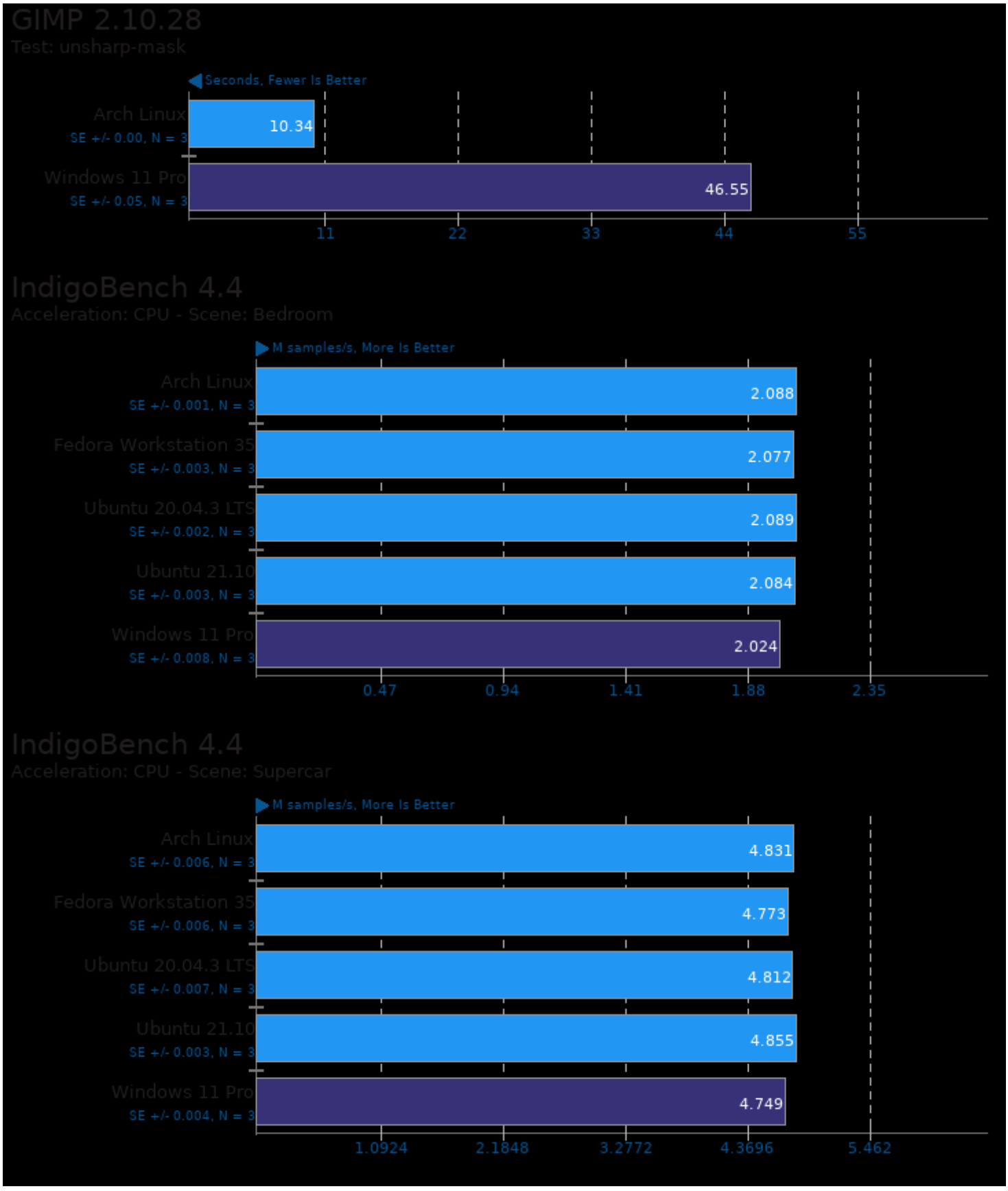


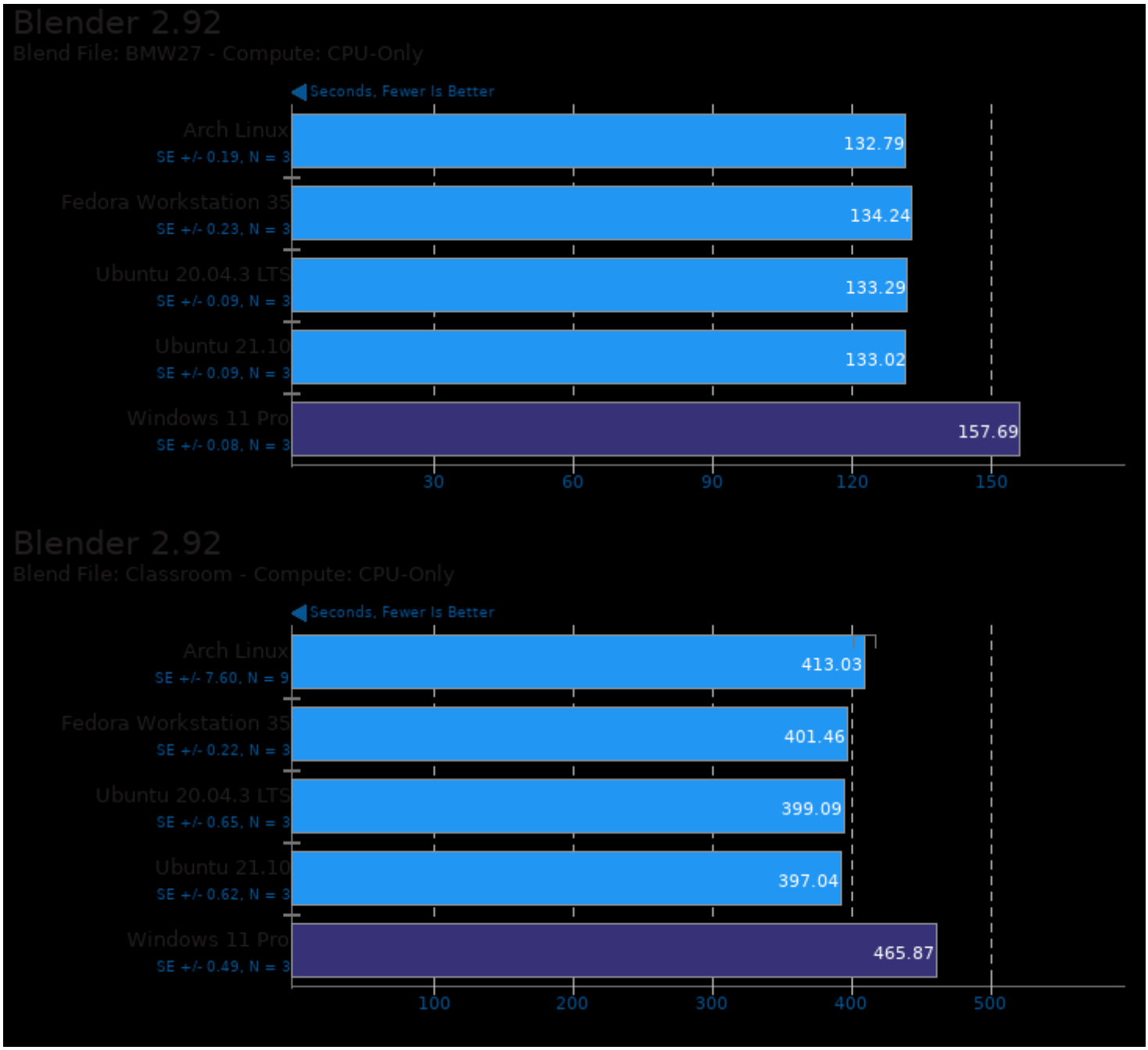

libavif avifenc 0.9.0
Encoder Speed: 2
Seconds, Fewer Is Better
Arch Linux
SE +/- 0.04, N = 3
29.56
Fedora Workstation 35
SE +/- 0.12, N = 3
29.03
Ubuntu 20.04.3 LTS
SE +/- 0.04, N = 3
29.84
Ubuntu 21.10
SE +/- 0.09, N = 3
29.85
Windows 11 Pro
SE +/- 0.05, N = 3
34.06
8
16
24
32
40
1. (CXX) g++ options: -O3 -fPIC -lm
libavif avifenc 0.9.0
Encoder Speed: 6
Seconds, Fewer Is Better
Arch Linux
SE +/- 0.04, N = 3
10.36
Fedora Workstation 35
SE +/- 0.01, N = 3
10.21
Ubuntu 20.04.3 LTS
SE +/- 0.05, N = 3
10.48
Ubuntu 21.10
SE +/- 0.03, N = 3
10.41
Windows 11 Pro
SE +/- 0.02, N = 3
11.70
3
6
9
12
15
1. (CXX) g++ options: -O3 -fPIC -lm

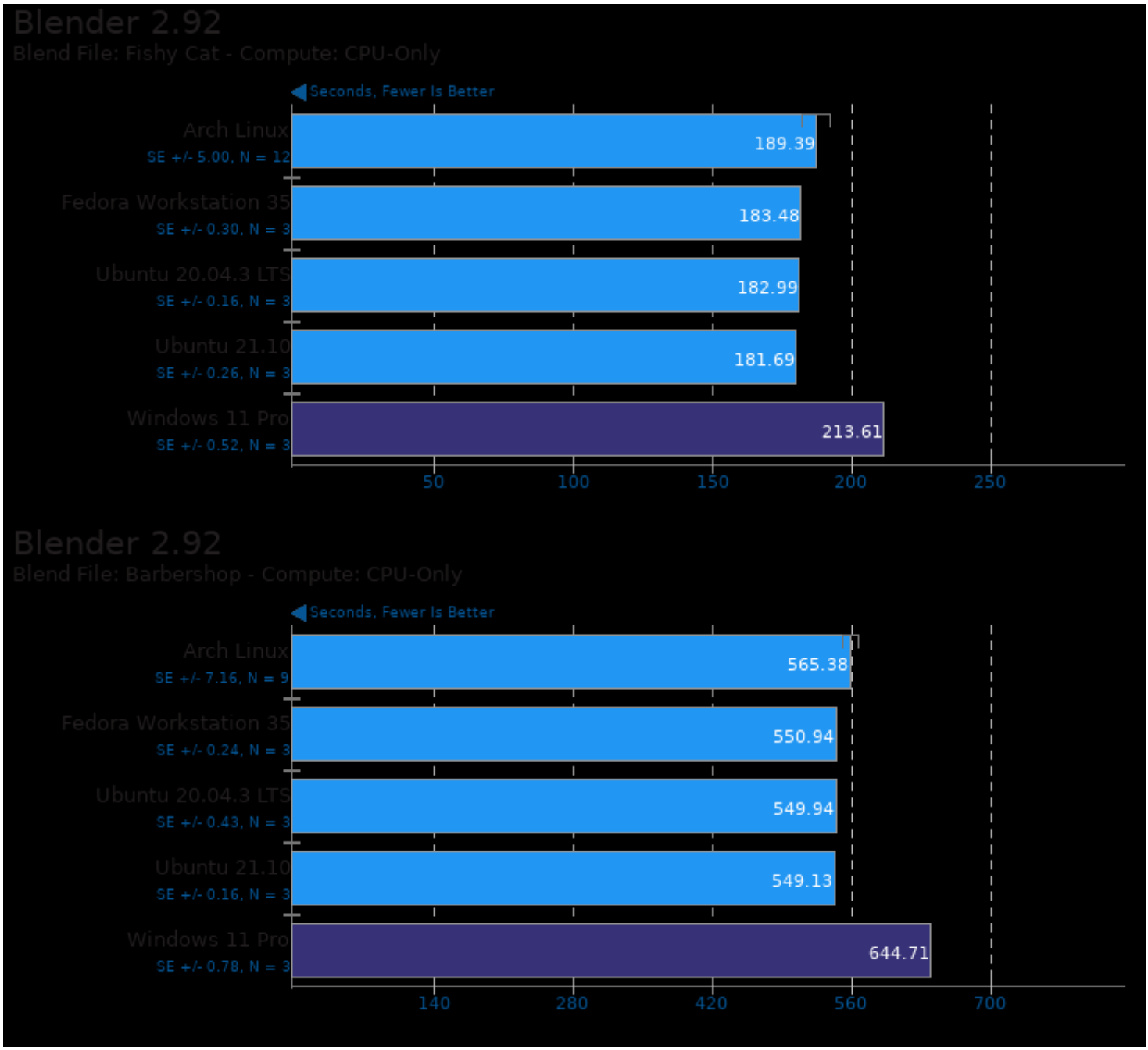

libavif avifenc 0.9.0
Encoder Speed: 6, Lossless
Seconds, Fewer Is Better
Arch Linux
SE +/- 2.93, N = 15
53.64
Fedora Workstation 35
SE +/- 0.12, N = 3
49.30
Ubuntu 20.04.3 LTS
SE +/- 0.06, N = 3
51.42
Ubuntu 21.10
SE +/- 0.07, N = 3
51.44
Windows 11 Pro
SE +/- 0.23, N = 3
55.96
13
26
39
52
65
1. (CXX) g++ options: -O3 -fPIC -lm
FLAC Audio Encoding 1.3.3
WAV To FLAC
Seconds, Fewer Is Better
Arch Linux
SE +/- 0.00, N = 5
11.31
Fedora Workstation 35
SE +/- 0.03, N = 5
11.22
Ubuntu 20.04.3 LTS
SE +/- 0.01, N = 5
11.88
Ubuntu 21.10
SE +/- 0.02, N = 5
11.40
Windows 11 Pro
SE +/- 0.01, N = 5
12.96
3
6
9
12
15
1. (CXX) g++ options: -fvisibility=hidden -logg -lm

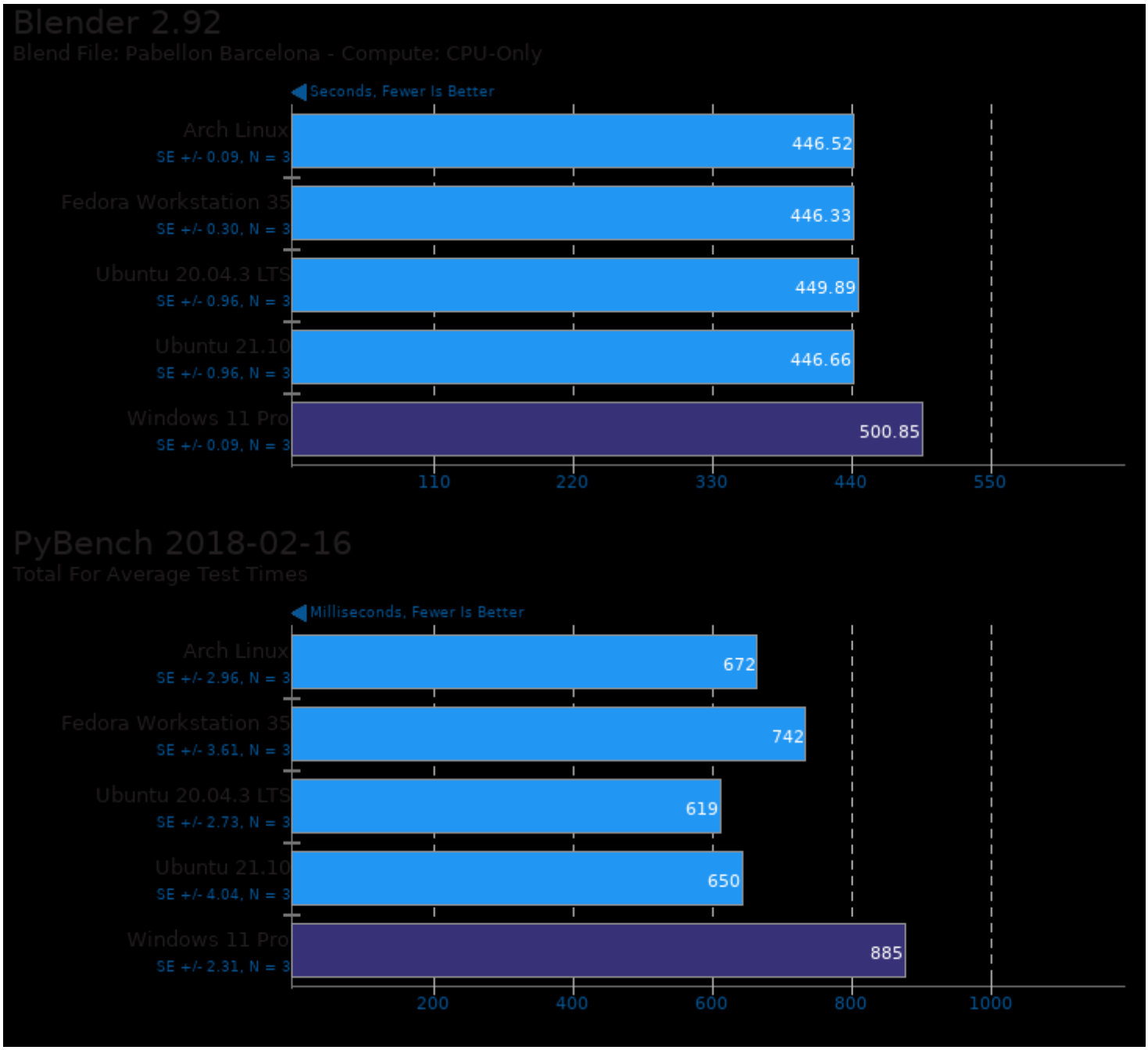

Opus Codec Encoding 1.3.1
WAV To Opus Encode
Seconds, Fewer Is Better
Arch Linux
SE +/- 0.007, N = 5
6.300
Ubuntu 21.10
SE +/- 0.023, N = 5
6.437
Windows 11 Pro
SE +/- 0.054, N = 25
7.413
2
4
6
8
10
1. (CXX) g++ options: -fvisibility=hidden -logg -lm
GIMP 2.10.28
Test: resize
Seconds, Fewer Is Better
Arch Linux
SE +/- 0.034, N = 3
5.665
Windows 11 Pro
SE +/- 0.419, N = 11
39.269
9
18
27
36
45
GIMP 2.10.28
Test: rotate
Seconds, Fewer Is Better
Arch Linux
SE +/- 0.022, N = 3
8.189
Windows 11 Pro
SE +/- 0.162, N = 3
42.271
10
20
30
40
50
GIMP 2.10.28
Test: auto-levels
Seconds, Fewer Is Better
Arch Linux
SE +/- 0.038, N = 3
8.529
Windows 11 Pro
SE +/- 0.066, N = 3
44.021
10
20
30
40
50

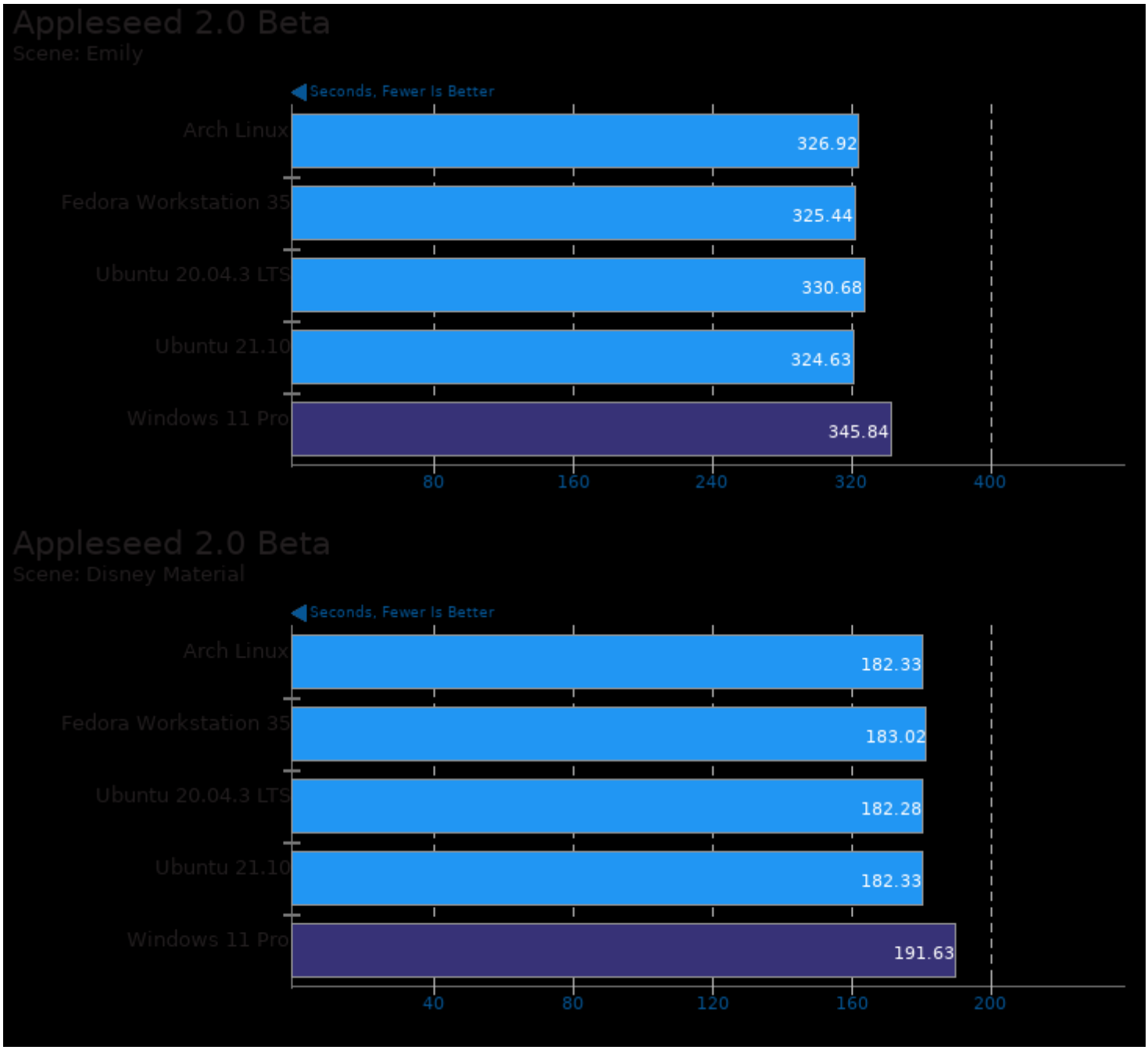
Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



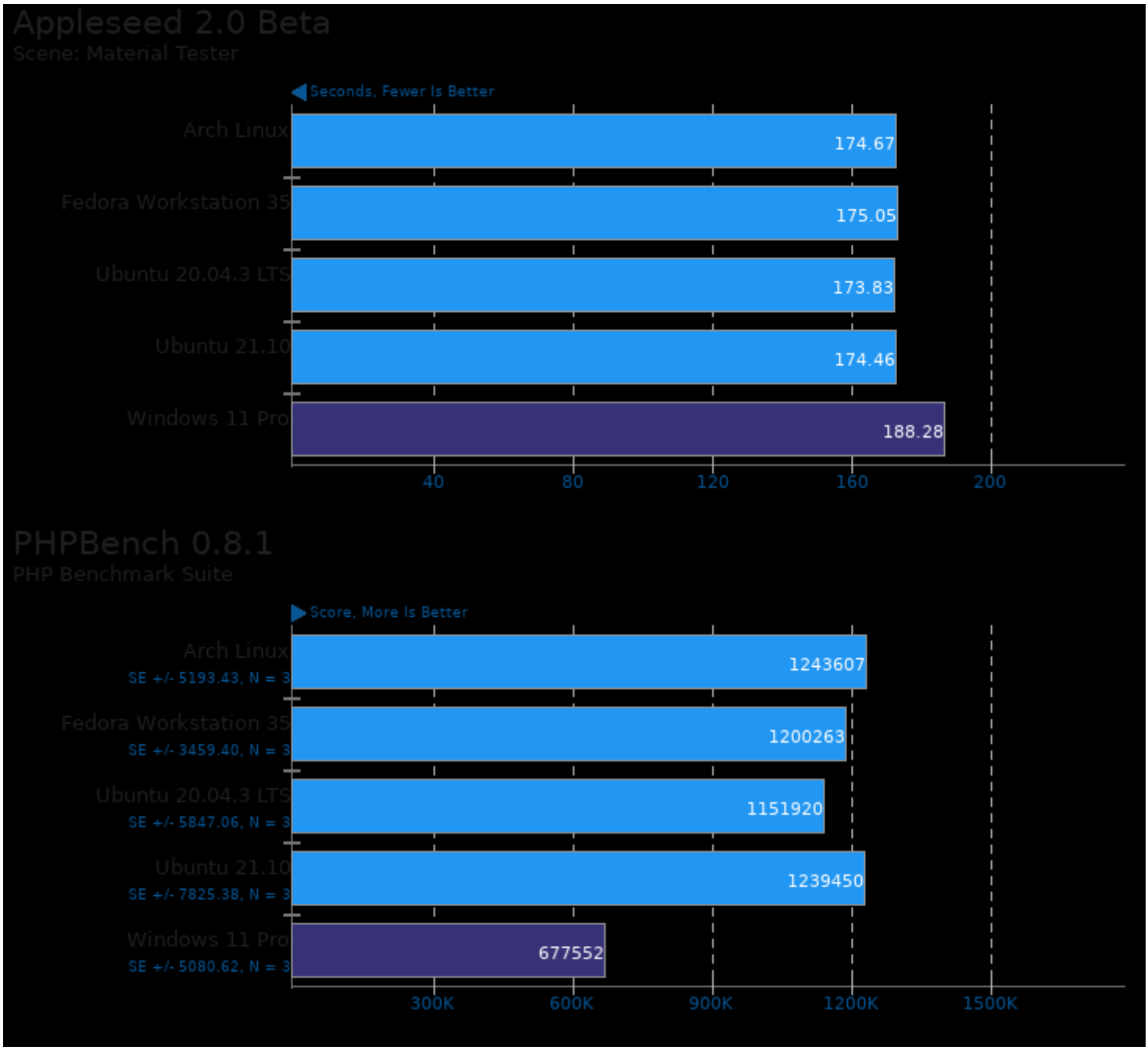

Blender 2.92
Blend File: BMW27 - Compute: CPU-Only
Seconds, Fewer Is Better
Arch Linux
SE +/- 0.19, N = 3
132.79
Fedora Workstation 35
SE +/- 0.23, N = 3
134.24
Ubuntu 20.04.3 LTS
SE +/- 0.09, N = 3
133.29
Ubuntu 21.10
SE +/- 0.09, N = 3
133.02
Windows 11 Pro
SE +/- 0.08, N = 3
157.69
30
60
90
120
150
Blender 2.92
Blend File: Classroom - Compute: CPU-Only
Seconds, Fewer Is Better
Arch Linux
SE +/- 7.60, N = 9
413.03
Fedora Workstation 35
SE +/- 0.22, N = 3
401.46
Ubuntu 20.04.3 LTS
SE +/- 0.65, N = 3
399.09
Ubuntu 21.10
SE +/- 0.62, N = 3
397.04
Windows 11 Pro
SE +/- 0.49, N = 3
465.87
100
200
300
400
500

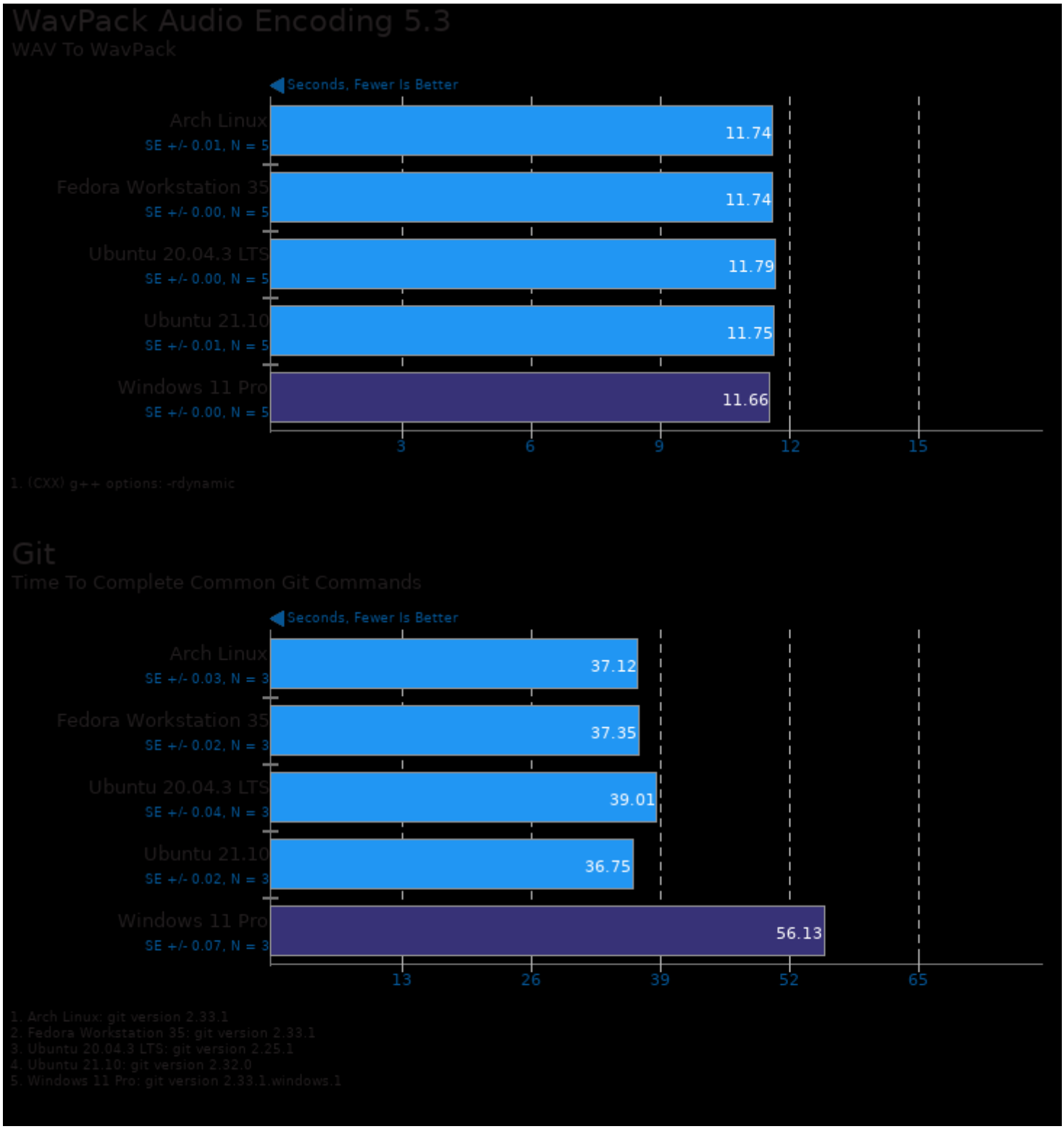

Blender 2.92
Blend File: Fishy Cat - Compute: CPU-Only
Seconds, Fewer Is Better
Arch Linux
SE +/- 5.00, N = 12
189.39
Fedora Workstation 35
SE +/- 0.30, N = 3
183.48
Ubuntu 20.04.3 LTS
SE +/- 0.16, N = 3
182.99
Ubuntu 21.10
SE +/- 0.26, N = 3
181.69
Windows 11 Pro
SE +/- 0.52, N = 3
213.61
50
100
150
200
250
Blender 2.92
Blend File: Barbershop - Compute: CPU-Only
Seconds, Fewer Is Better
Arch Linux
SE +/- 7.16, N = 9
565.38
Fedora Workstation 35
SE +/- 0.24, N = 3
550.94
Ubuntu 20.04.3 LTS
SE +/- 0.43, N = 3
549.94
Ubuntu 21.10
SE +/- 0.16, N = 3
549.13
Windows 11 Pro
SE +/- 0.78, N = 3
644.71
140
280
420
560
700

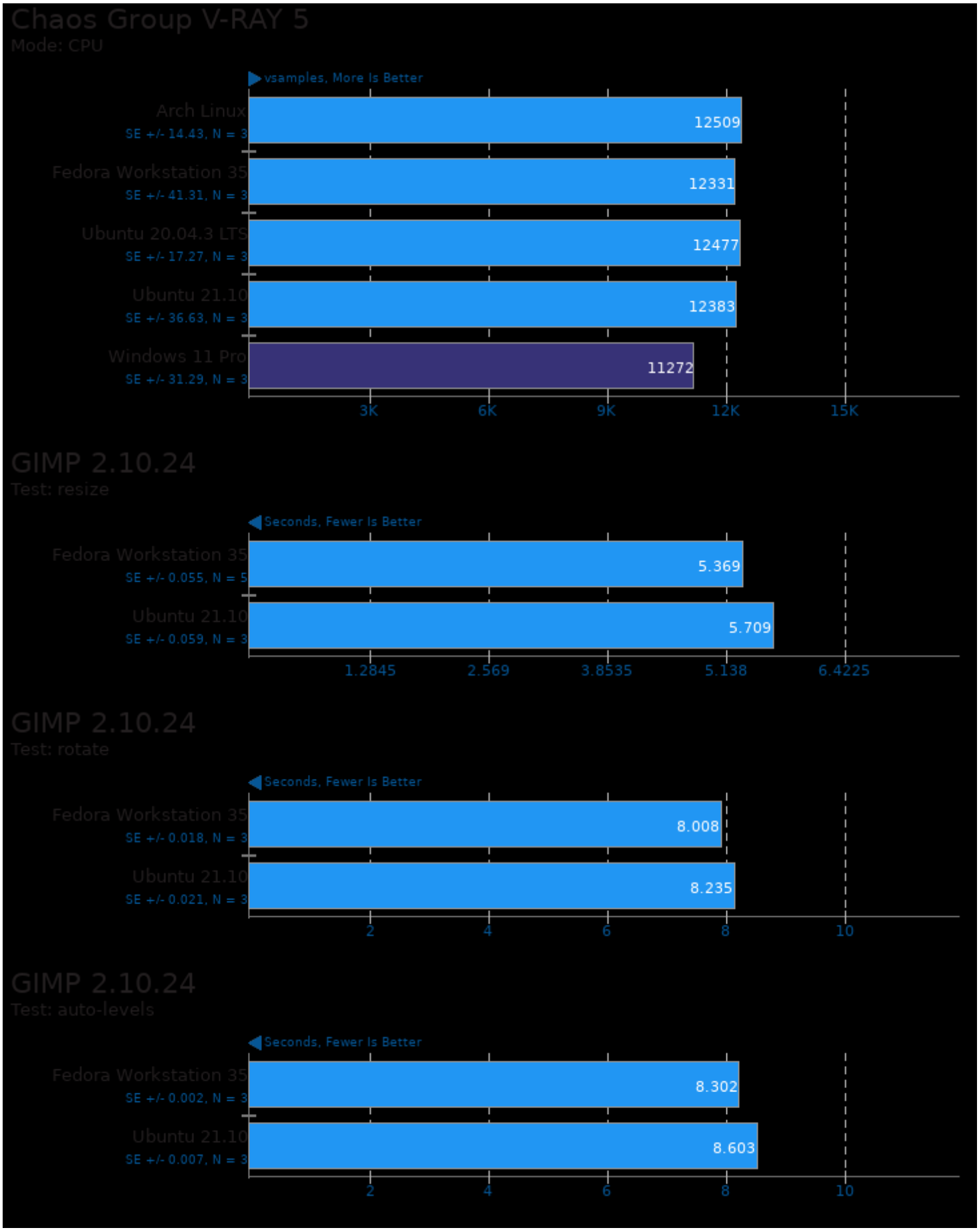

Blender 2.92
Blend File: Pabellon Barcelona - Compute: CPU-Only
Seconds, Fewer Is Better
Arch Linux
SE +/- 0.09, N = 3
446.52
Fedora Workstation 35
SE +/- 0.30, N = 3
446.33
Ubuntu 20.04.3 LTS
SE +/- 0.96, N = 3
449.89
Ubuntu 21.10
SE +/- 0.96, N = 3
446.66
Windows 11 Pro
SE +/- 0.09, N = 3
500.85
110
220
330
440
550
PyBench 2018-02-16
Total For Average Test Times
Milliseconds, Fewer Is Better
Arch Linux
SE +/- 2.96, N = 3
672
Fedora Workstation 35
SE +/- 3.61, N = 3
742
Ubuntu 20.04.3 LTS
SE +/- 2.73, N = 3
619
Ubuntu 21.10
SE +/- 4.04, N = 3
650
Windows 11 Pro
SE +/- 2.31, N = 3
885
200
400
600
800
1000


Appleseed 2.0 Beta
Scene: Emily
Seconds, Fewer Is Better
Arch Linux
326.92
Fedora Workstation 35
325.44
Ubuntu 20.04.3 LTS
330.68
Ubuntu 21.10
324.63
Windows 11 Pro
345.84
80
160
240
320
400
Appleseed 2.0 Beta
Scene: Disney Material
Seconds, Fewer Is Better
Arch Linux
182.33
Fedora Workstation 35
183.02
Ubuntu 20.04.3 LTS
182.28
Ubuntu 21.10
182.33
Windows 11 Pro
191.63
40
80
120
160
200

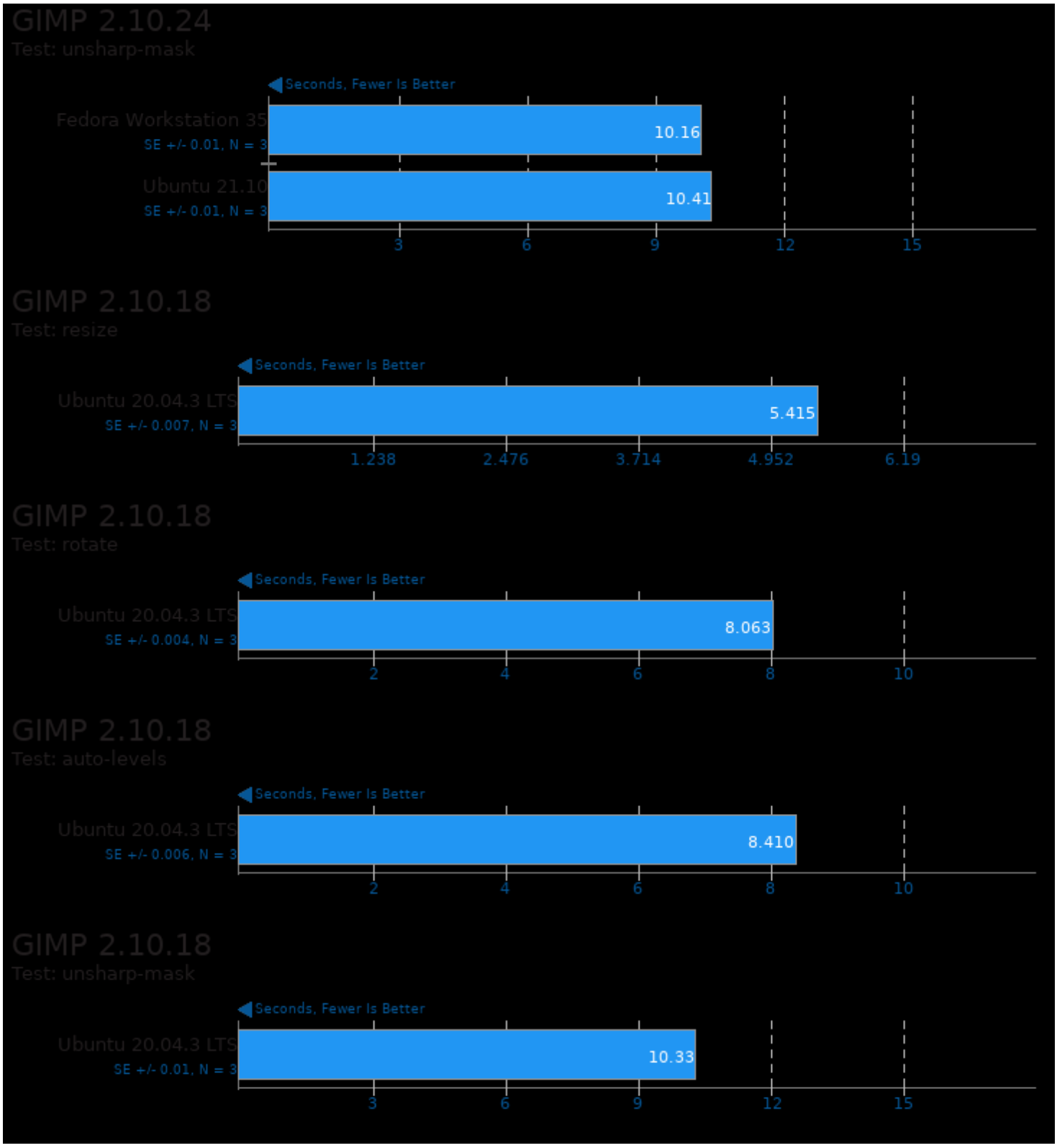
Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



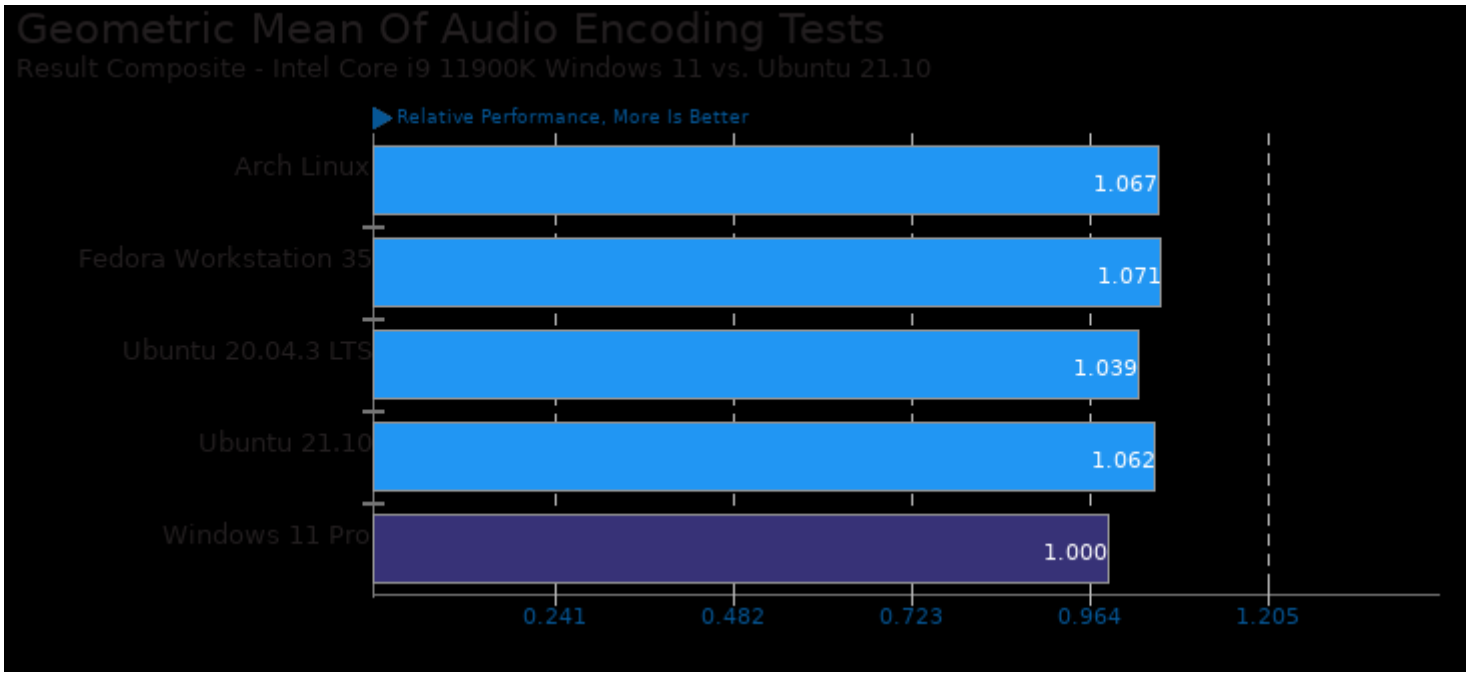

WavPack Audio Encoding 5.3
WAV To WavPack
Seconds, Fewer Is Better
Arch Linux
SE +/- 0.01, N = 5
11.74
Fedora Workstation 35
SE +/- 0.00, N = 5
11.74
Ubuntu 20.04.3 LTS
SE +/- 0.00, N = 5
11.79
Ubuntu 21.10
SE +/- 0.01, N = 5
11.75
Windows 11 Pro
SE +/- 0.00, N = 5
11.66
3
6
9
12
15
1. (CXX) g++ options: -rdynamic
Git
Time To Complete Common Git Commands
Seconds, Fewer Is Better
Arch Linux
SE +/- 0.03, N = 3
37.12
Fedora Workstation 35
SE +/- 0.02, N = 3
37.35
Ubuntu 20.04.3 LTS
SE +/- 0.04, N = 3
39.01
Ubuntu 21.10
SE +/- 0.02, N = 3
36.75
Windows 11 Pro
SE +/- 0.07, N = 3
56.13
13
26
39
52
65
1. Arch Linux: git version 2.33.1
2. Fedora Workstation 35: git version 2.33.1
3. Ubuntu 20.04.3 LTS: git version 2.25.1
4. Ubuntu 21.10: git version 2.32.0
5. Windows 11 Pro: git version 2.33.1.windows.1


Chaos Group V-RAY 5
Mode: CPU
vsamples, More Is Better
Arch Linux
SE +/- 14.43, N = 3
12509
Fedora Workstation 35
SE +/- 41.31, N = 3
12331
Ubuntu 20.04.3 LTS
SE +/- 17.27, N = 3
12477
Ubuntu 21.10
SE +/- 36.63, N = 3
12383
Windows 11 Pro
SE +/- 31.29, N = 3
11272
3K
6K
9K
12K
15K
GIMP 2.10.24
Test: resize
Seconds, Fewer Is Better
Fedora Workstation 35
SE +/- 0.055, N = 5
5.369
Ubuntu 21.10
SE +/- 0.059, N = 3
5.709
1.2845
2.569
3.8535
5.138
6.4225
GIMP 2.10.24
Test: rotate
Seconds, Fewer Is Better
Fedora Workstation 35
SE +/- 0.018, N = 3
8.008
Ubuntu 21.10
SE +/- 0.021, N = 3
8.235
2
4
6
8
10
GIMP 2.10.24
Test: auto-levels
Seconds, Fewer Is Better
Fedora Workstation 35
SE +/- 0.002, N = 3
8.302
Ubuntu 21.10
SE +/- 0.007, N = 3
8.603
2
4
6
8
10

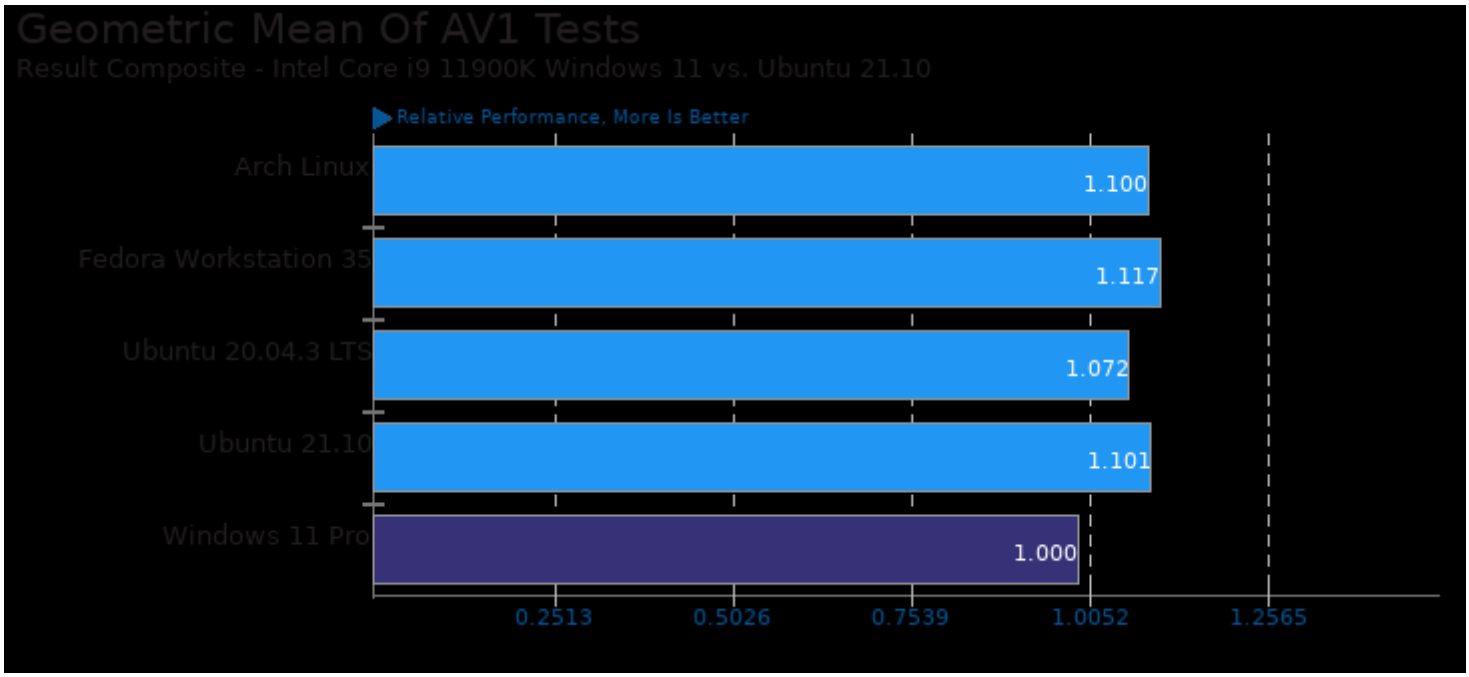
Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



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

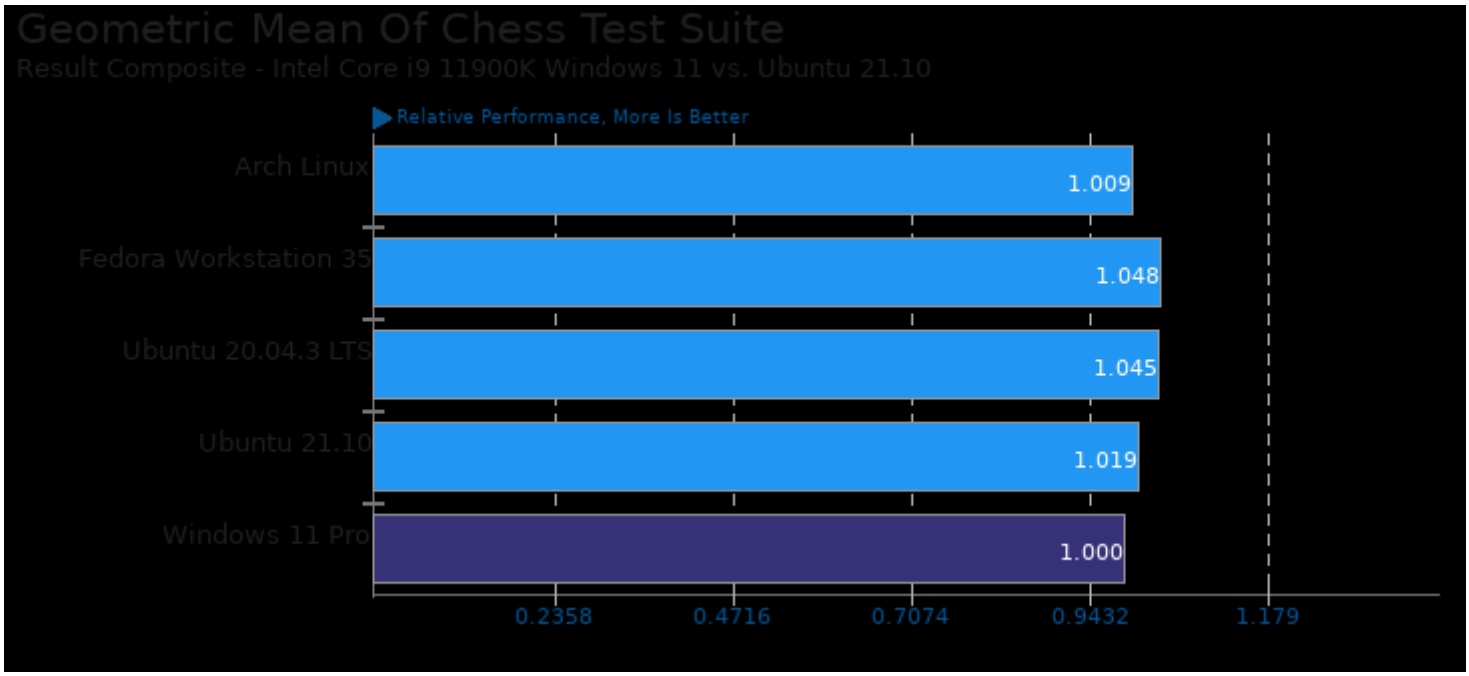


Geometric mean based upon tests: pts/encode-flac, pts/encode-wavpack and pts/encode-opus

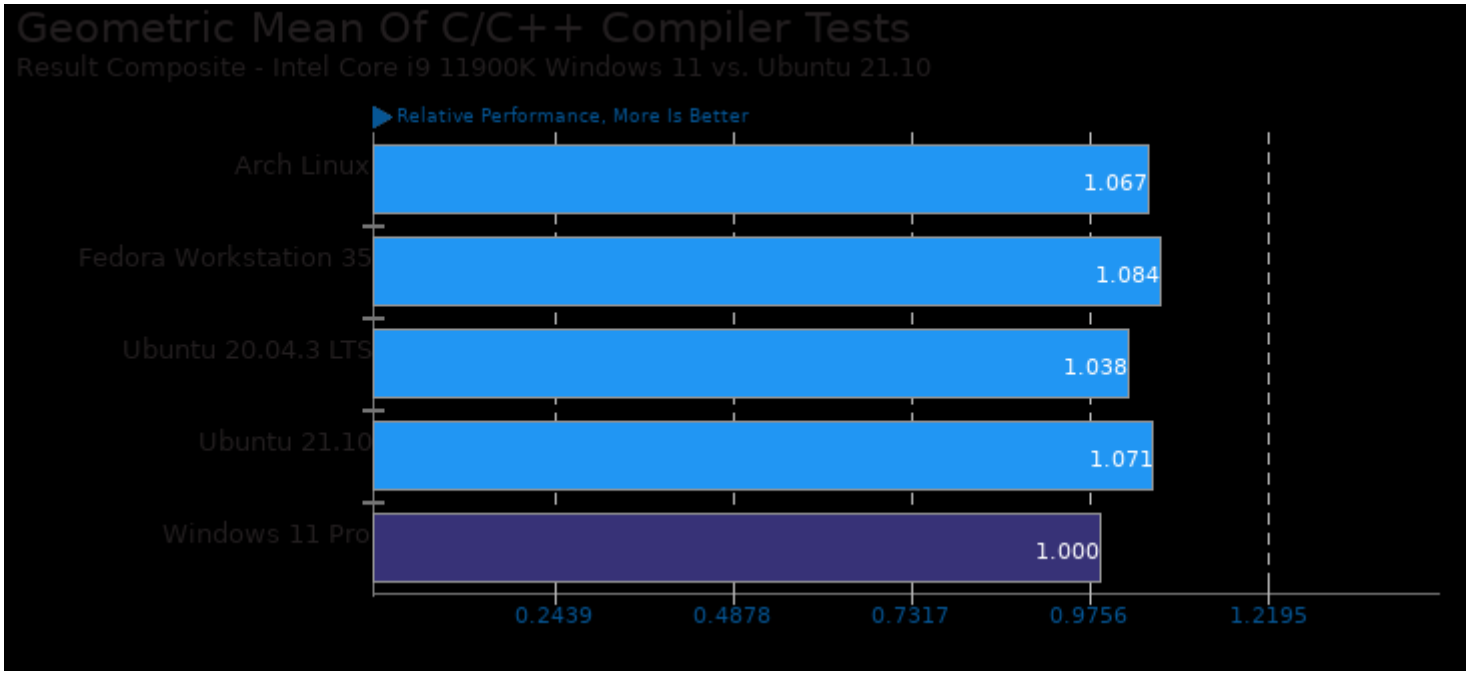


Geometric mean based upon tests: pts/dav1d, pts/svt-av1 and pts/avifenc

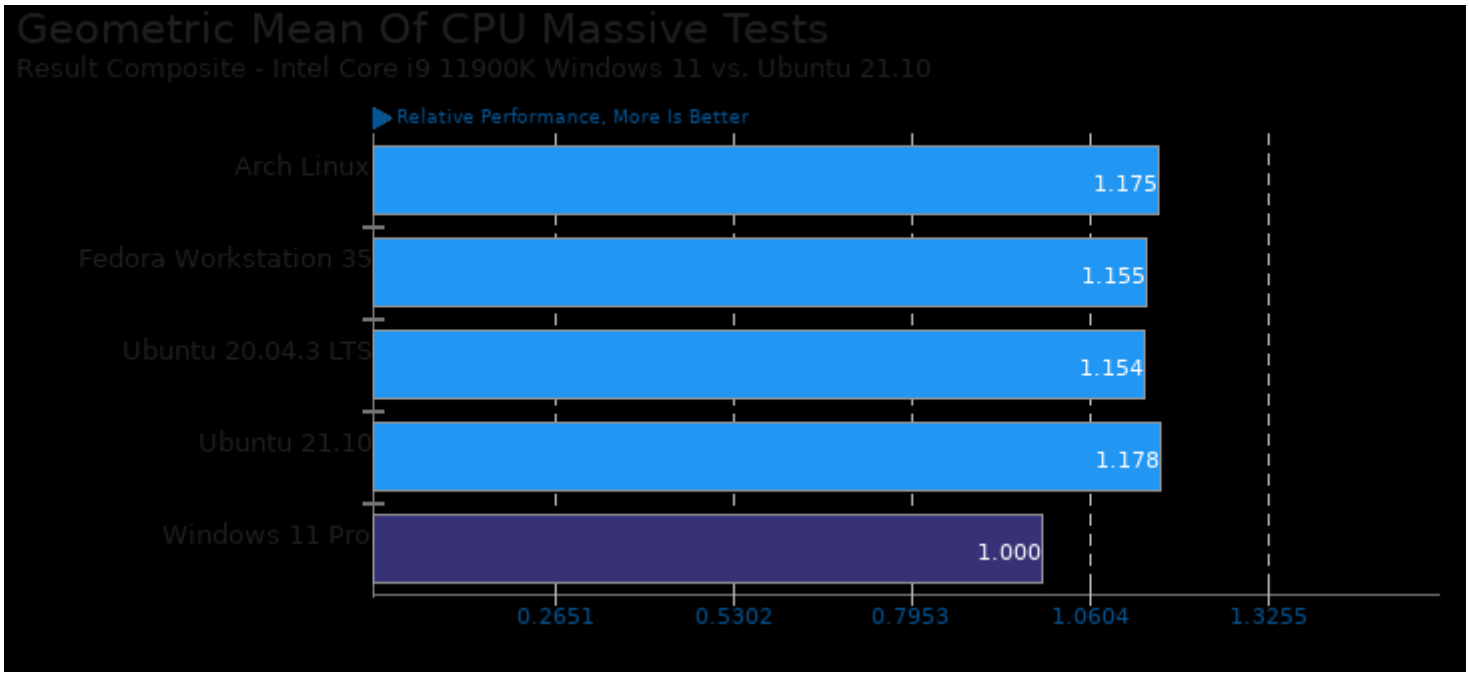
Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



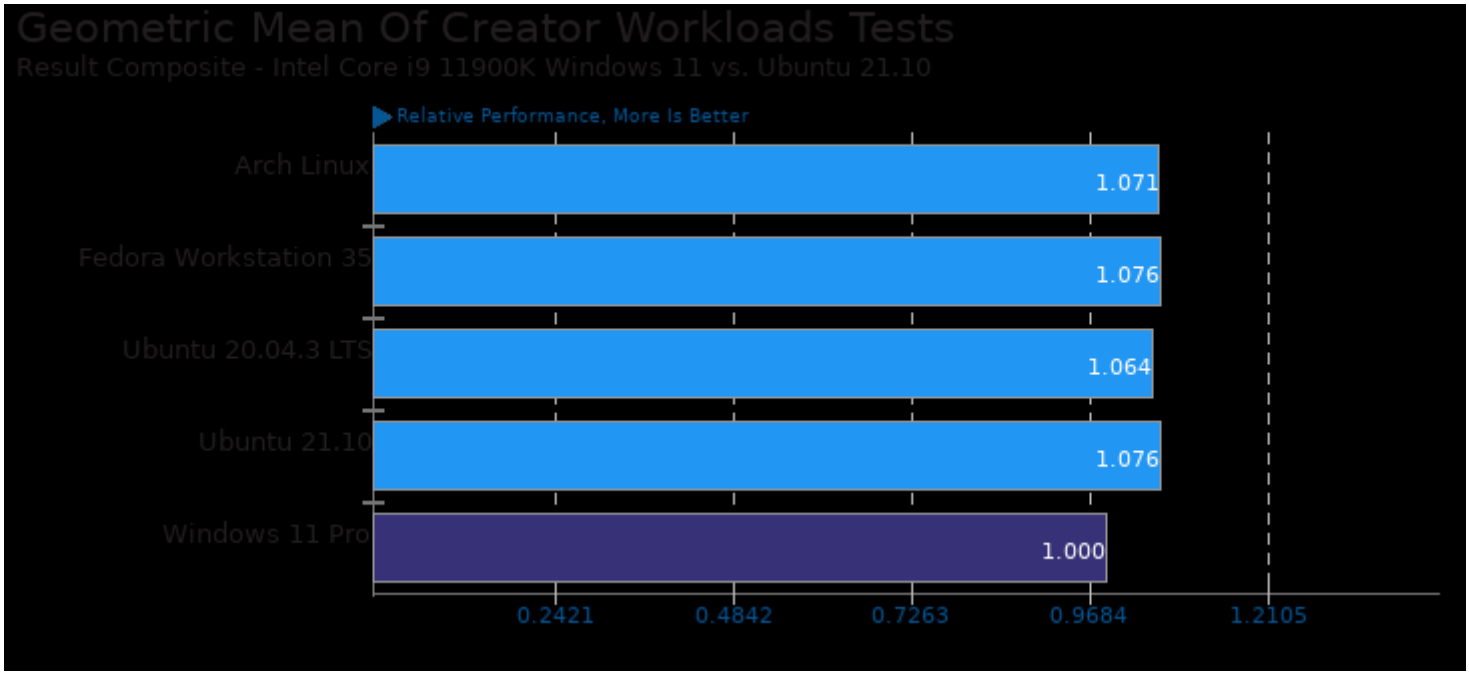
Geometric mean based upon tests: pts/tscp, pts/stockfish and pts/asmfish



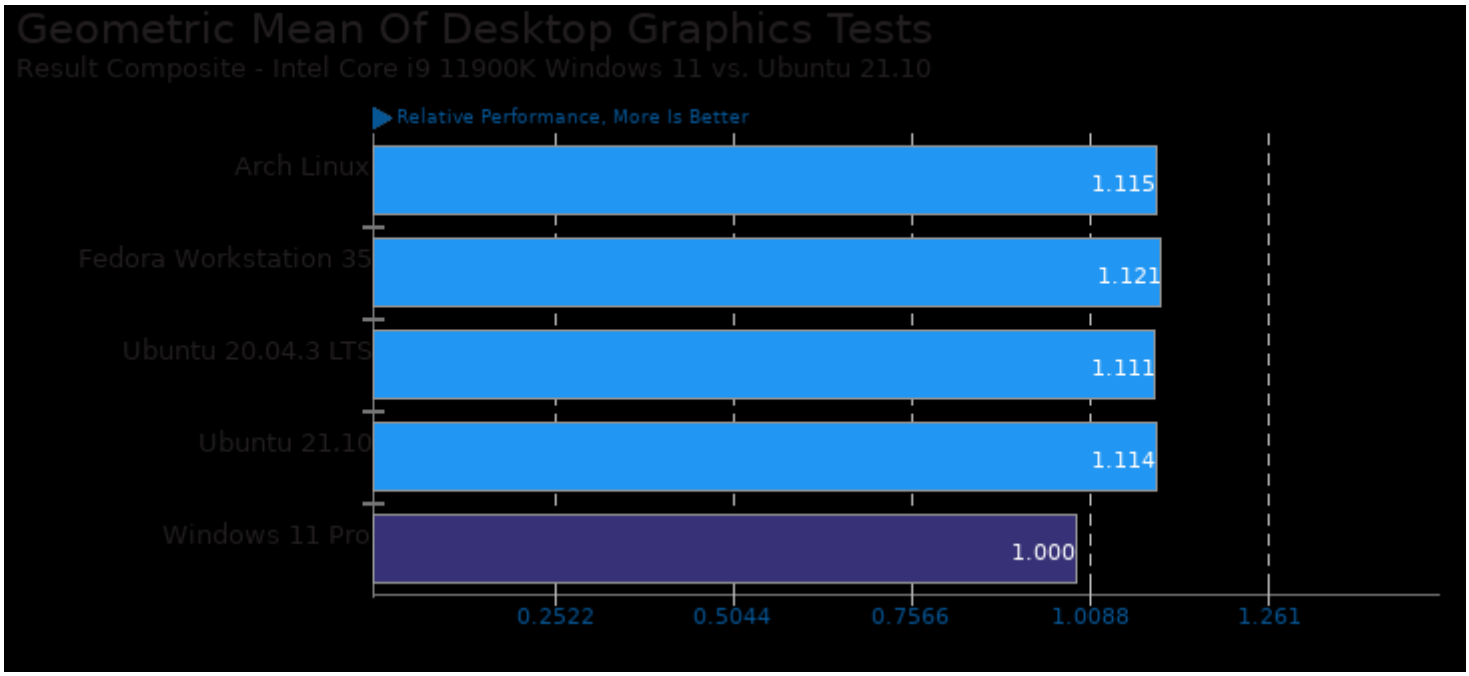
Geometric mean based upon tests: pts/tscp, pts/stockfish, pts/encode-flac, pts/dav1d and pts/svt-av1



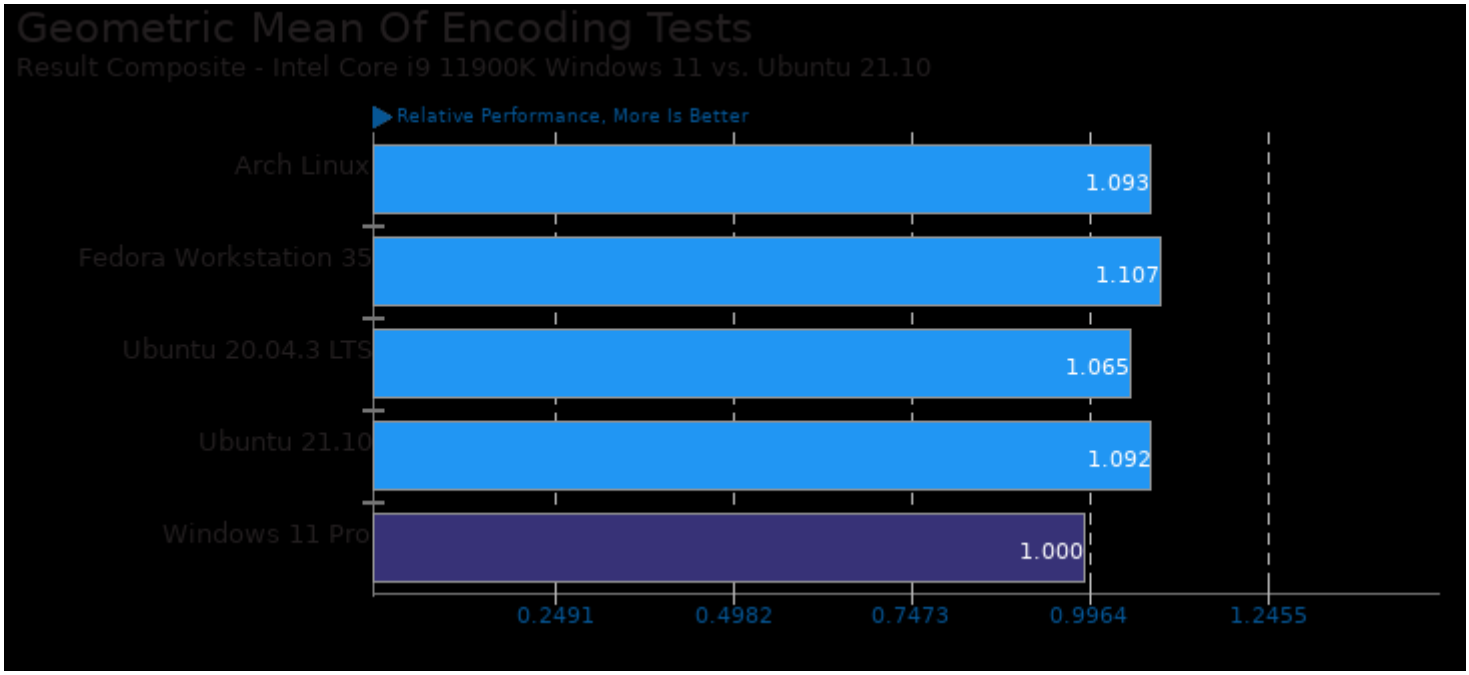
Geometric mean based upon tests: pts/asmfish, pts/dacapobench, pts/dav1d, pts/svt-av1, pts/encode-flac, pts/phpbench, pts/stockfish, pts/v-ray, pts/blender and pts/renaissance



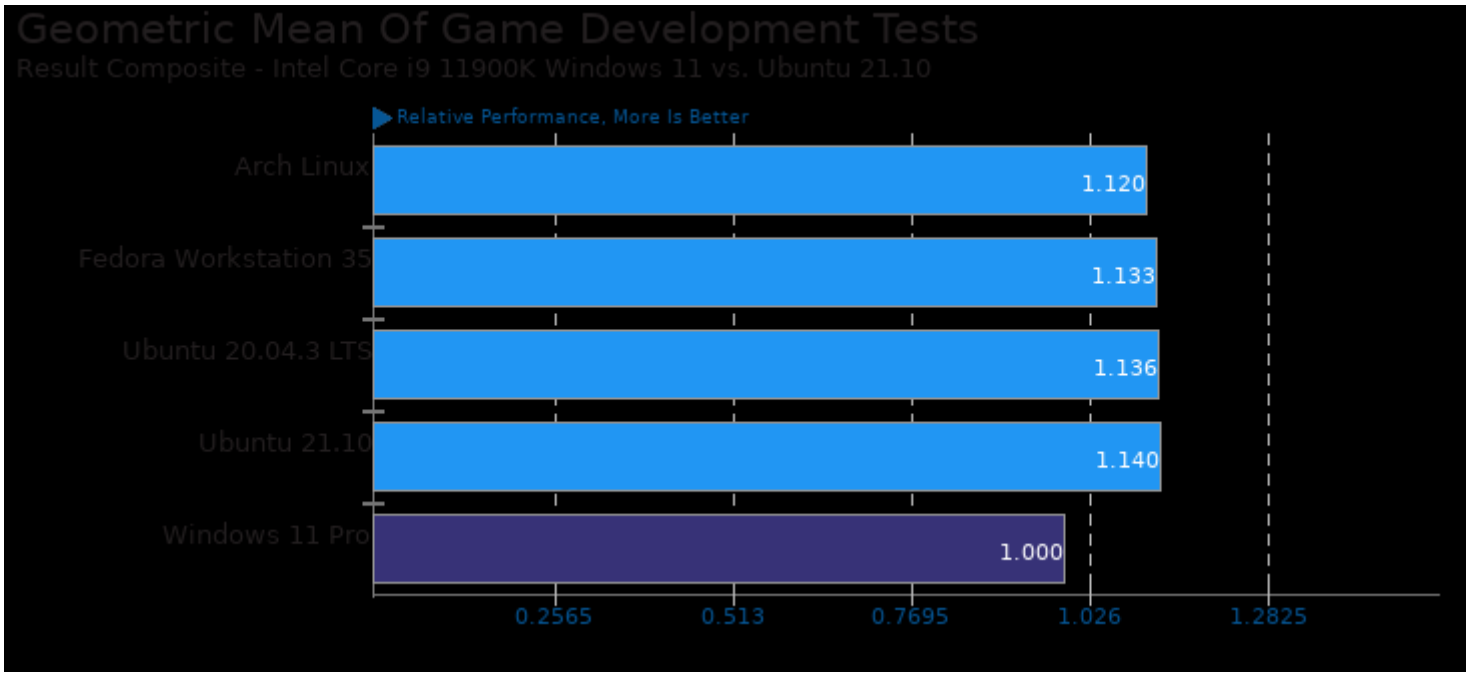
Geometric mean based upon tests: pts/blender, pts/appleseed, pts/luxcorerender, pts/v-ray, pts/indigobench, pts/dav1d, pts/svt-av1, pts/avifenc, pts/encode-flac, pts/encode-wavpack, pts/encode-opus, system/gimp and pts/oidn



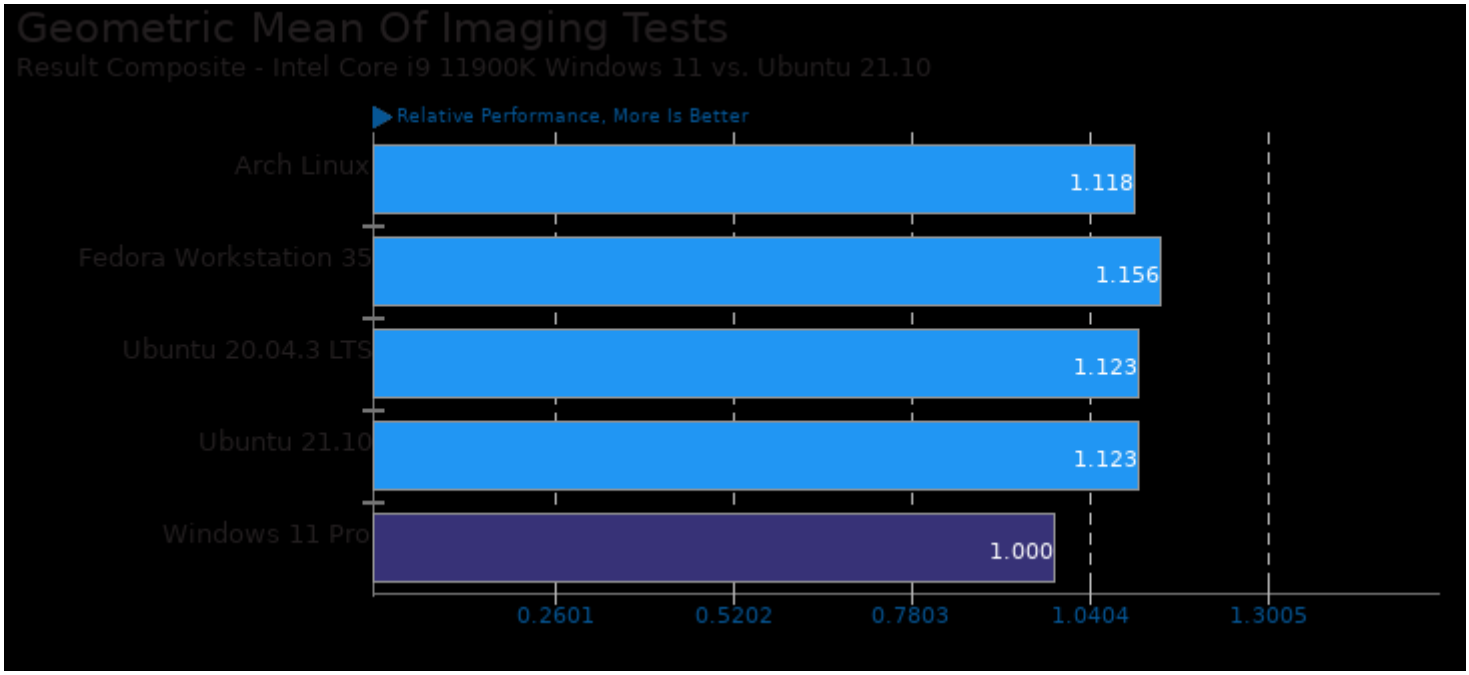
Geometric mean based upon tests: pts/paraview, pts/unigine-valley and pts/unigine-heaven



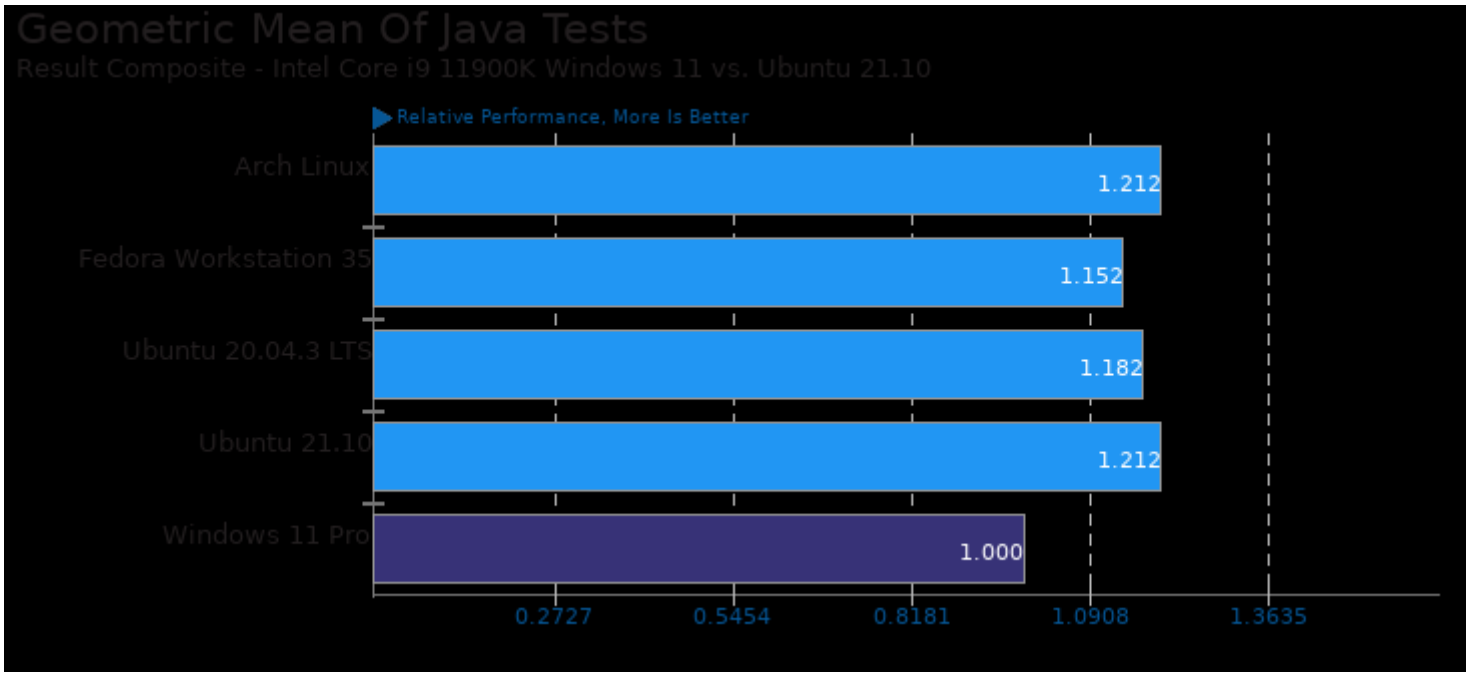
Geometric mean based upon tests: pts/encode-flac, pts/encode-wavpack, pts/encode-opus, pts/dav1d, pts/svt-av1 and pts/avifenc



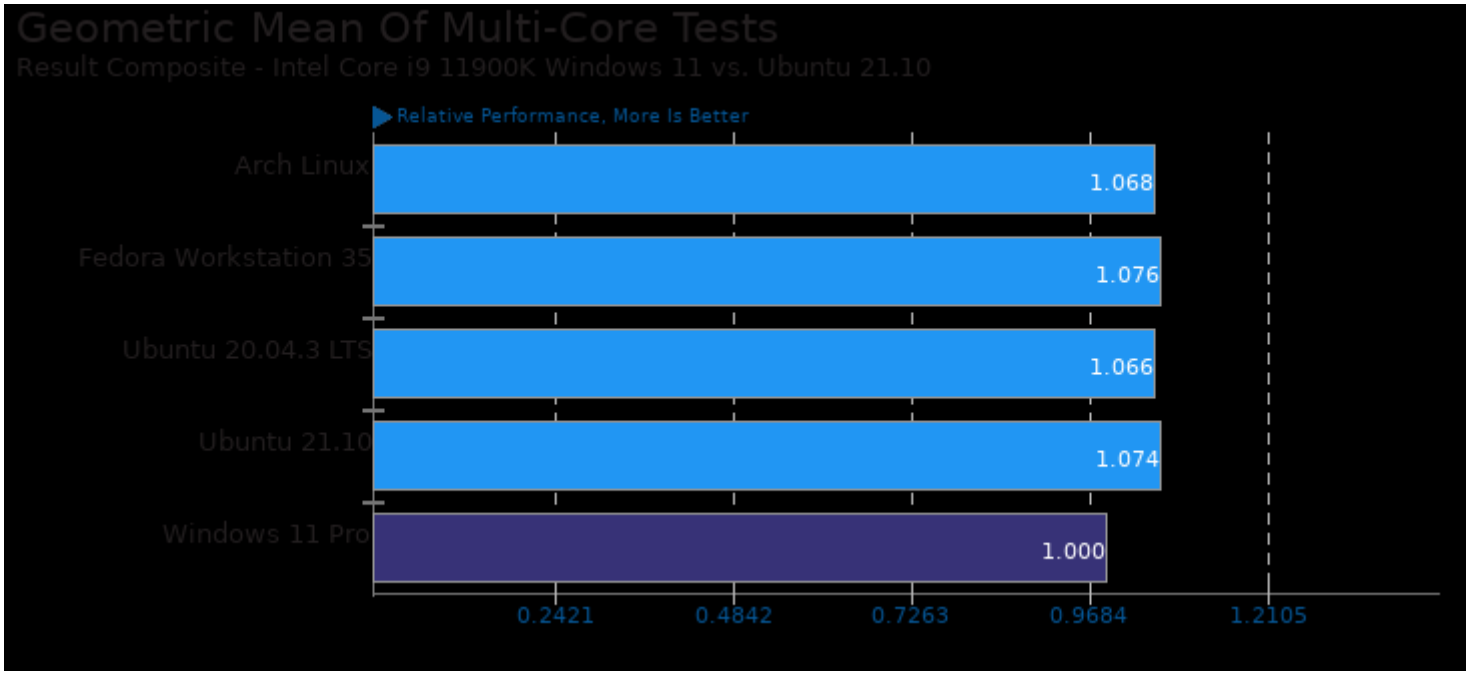
Geometric mean based upon tests: pts/blender and pts/oidn



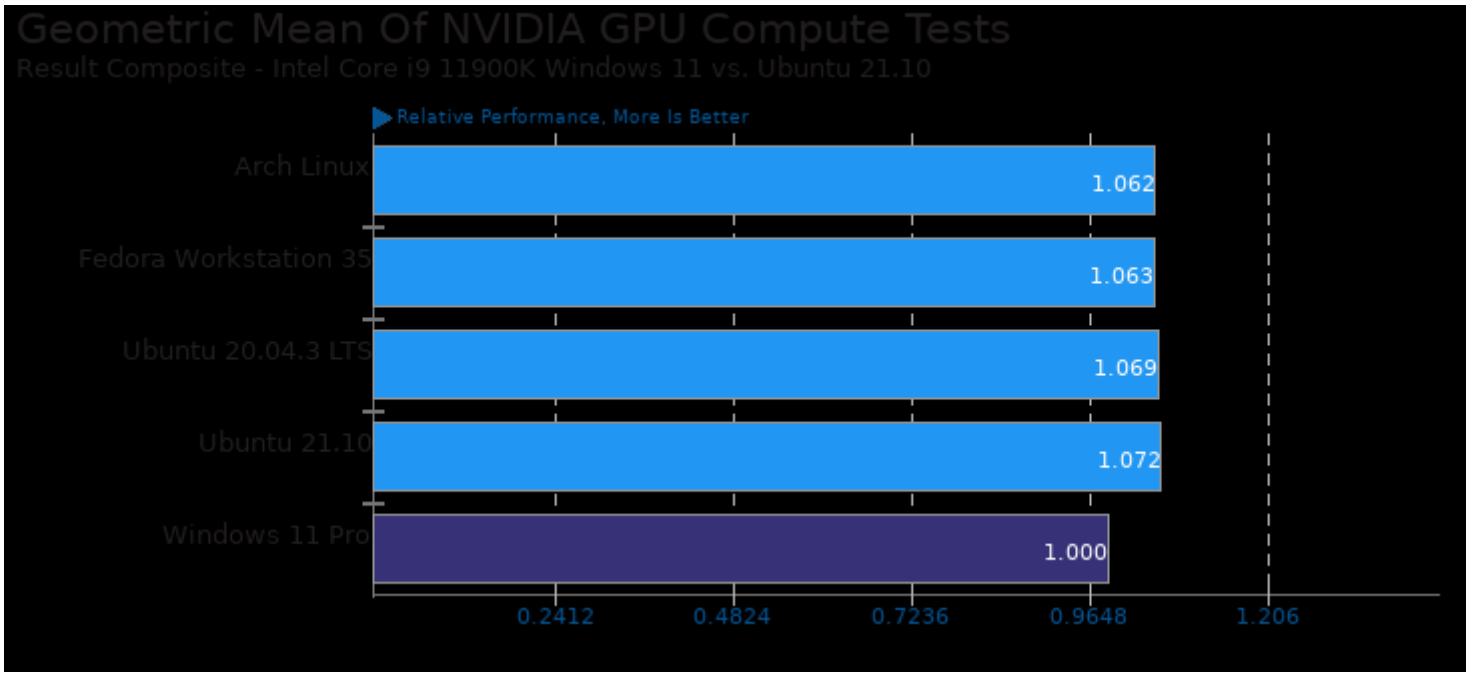
Geometric mean based upon tests: system/gimp and pts/avifenc



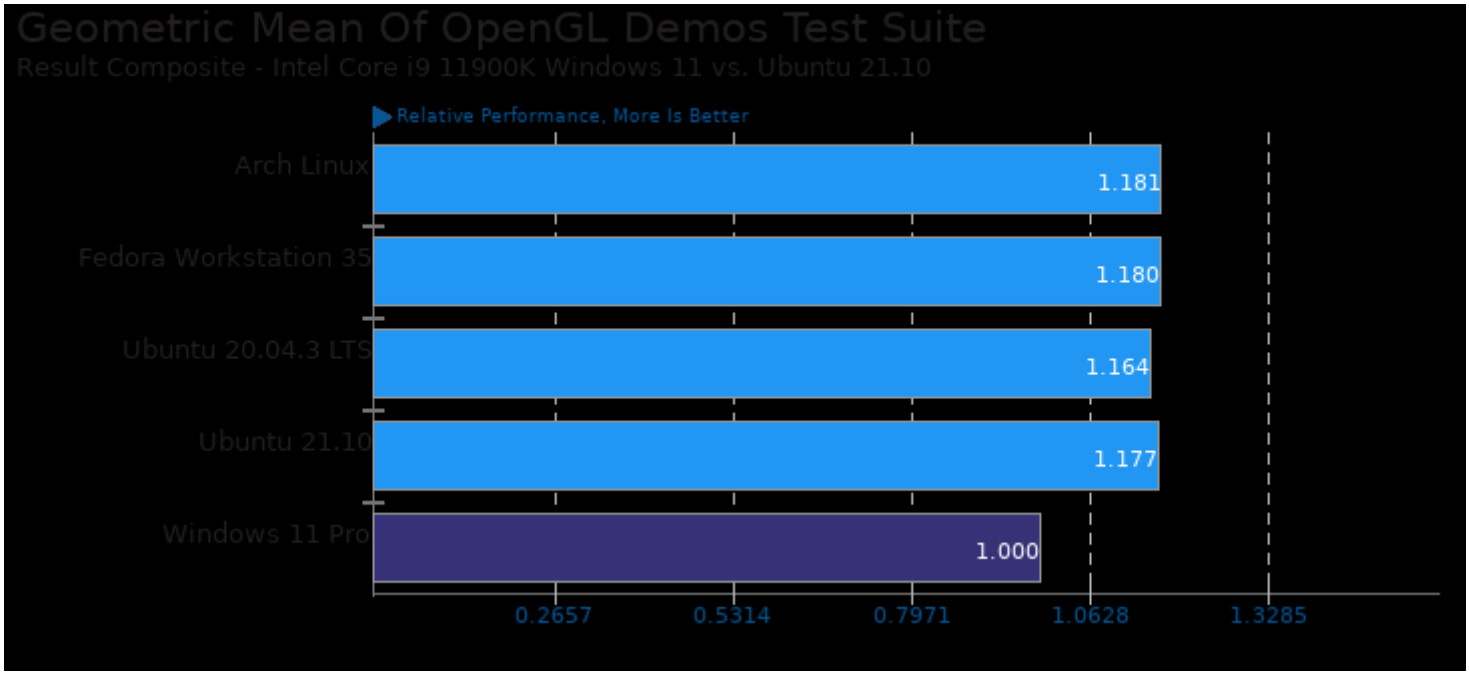
Geometric mean based upon tests: pts/dacapobench and pts/renaissance



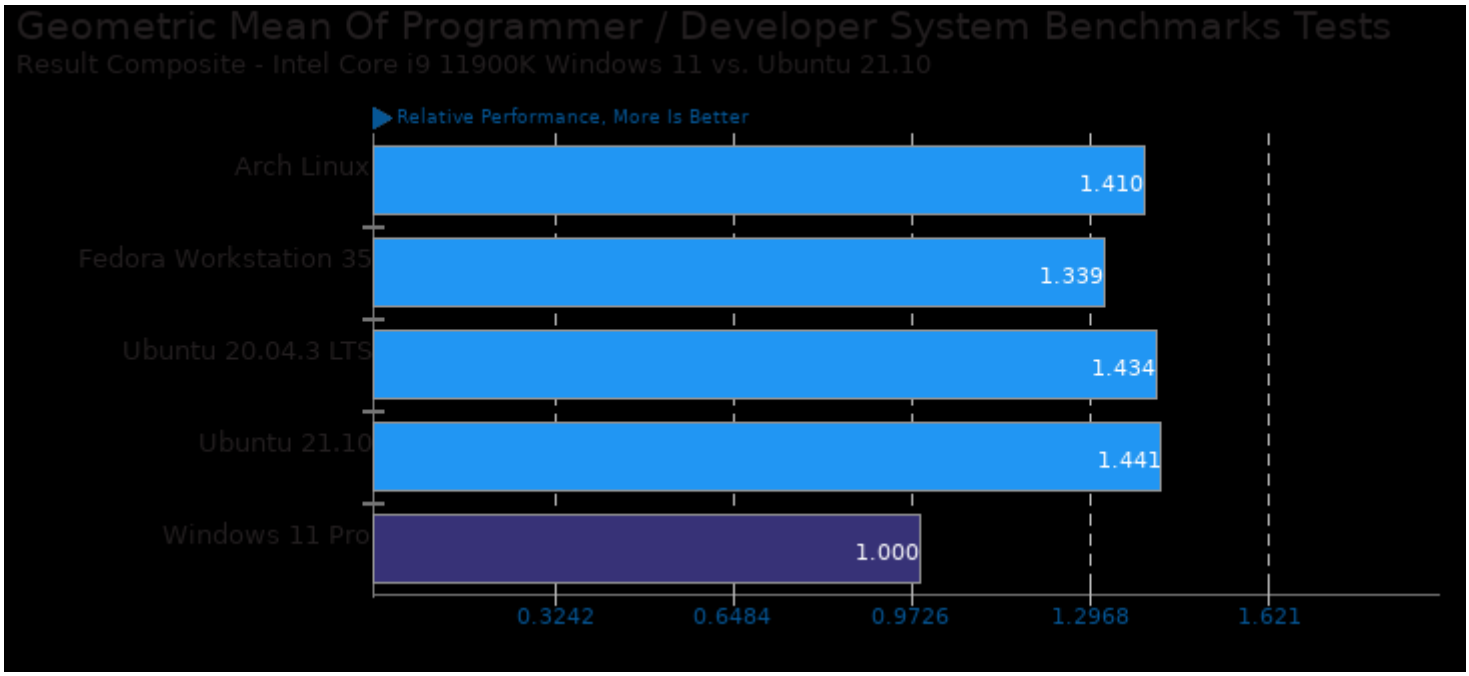
Geometric mean based upon tests: pts/blender, pts/stockfish, pts/dav1d, pts/svt-av1, pts/avifenc, pts/asmfish, pts/appleseed, pts/luxcorerender, pts/v-ray, pts/indigobench and pts/oidn



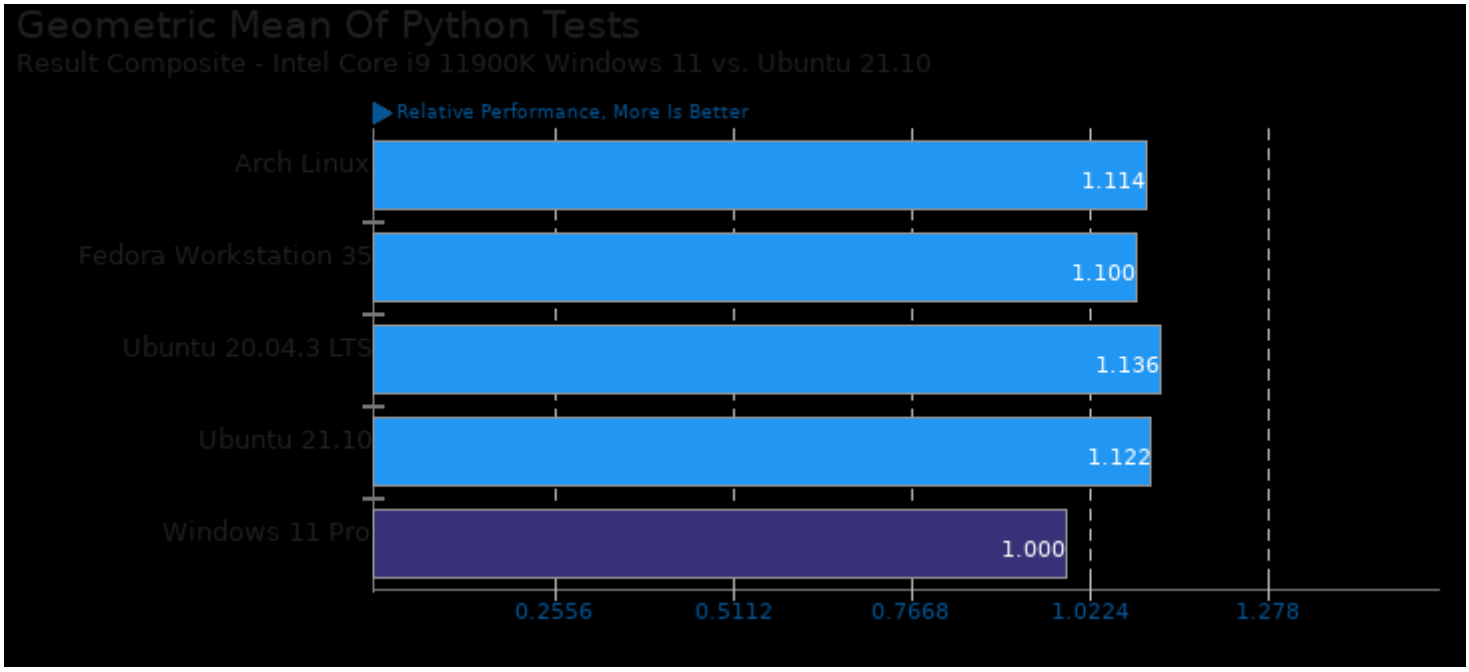
Geometric mean based upon tests: pts/luxcorerender, pts/indigobench, pts/v-ray and pts/blender



Geometric mean based upon tests: pts/unigine-valley and pts/unigine-heaven

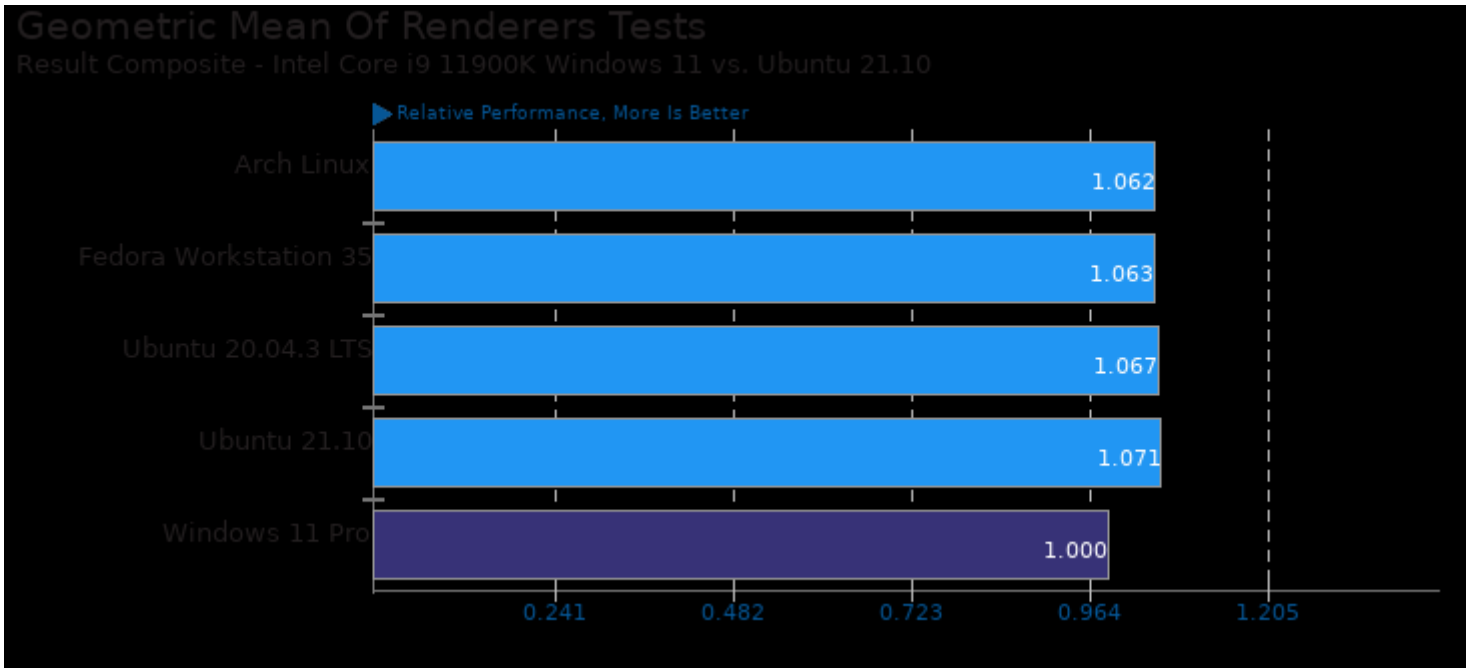


Geometric mean based upon tests: pts/git and pts/pybench

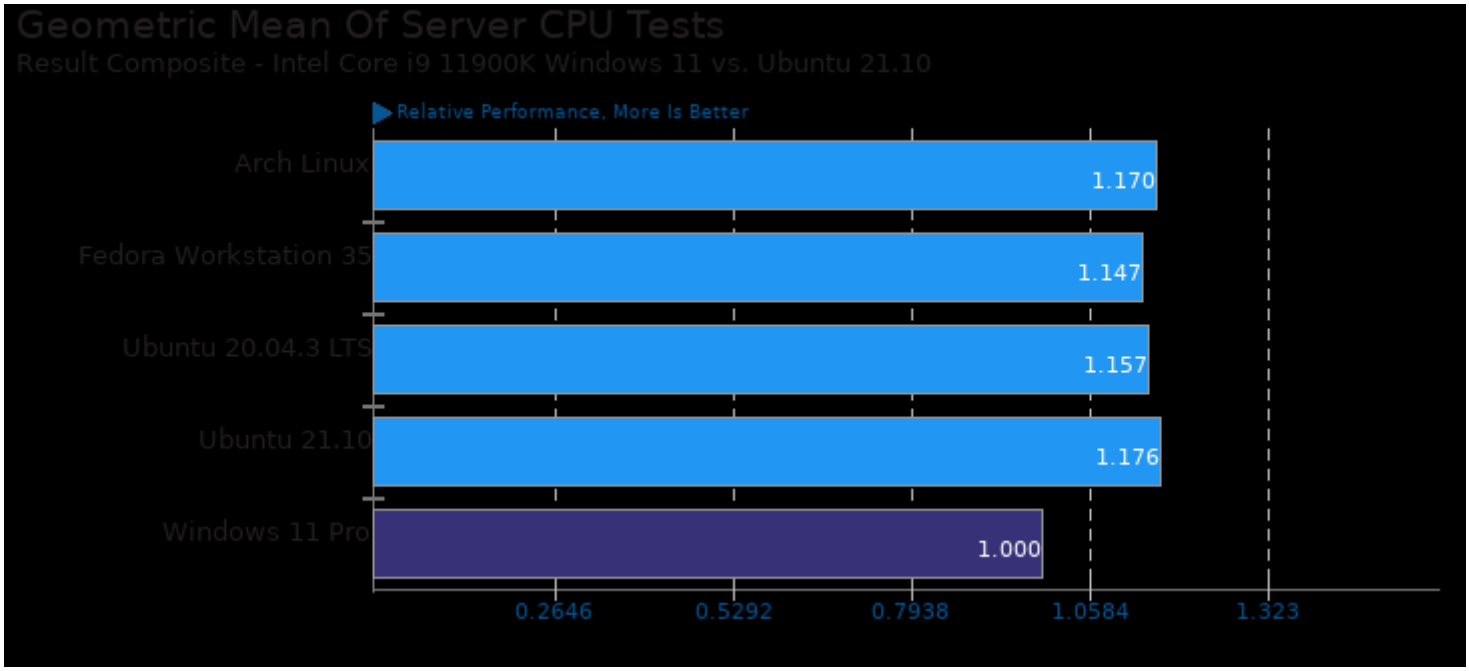


Geometric mean based upon tests: pts/paraview and pts/pybench

Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

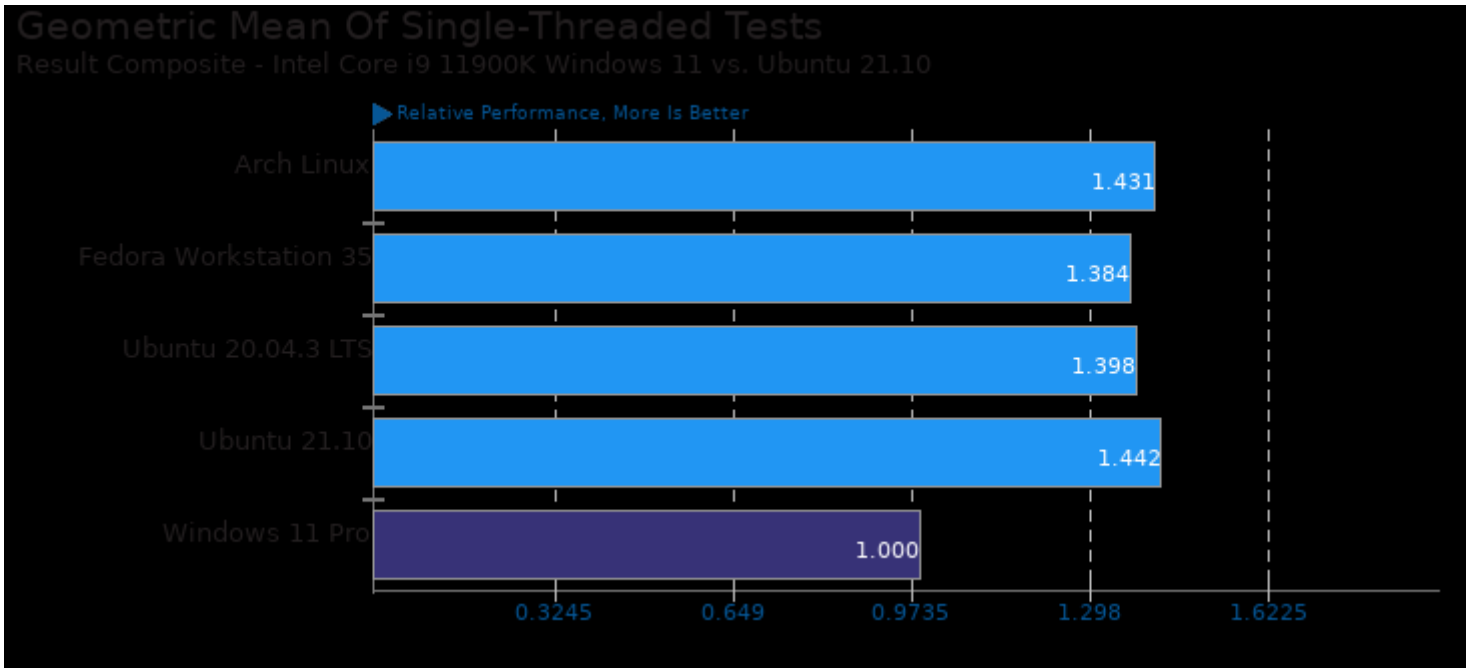


Geometric mean based upon tests: pts/blender, pts/appleseed, pts/luxcorerender, pts/v-ray and pts/indigobench

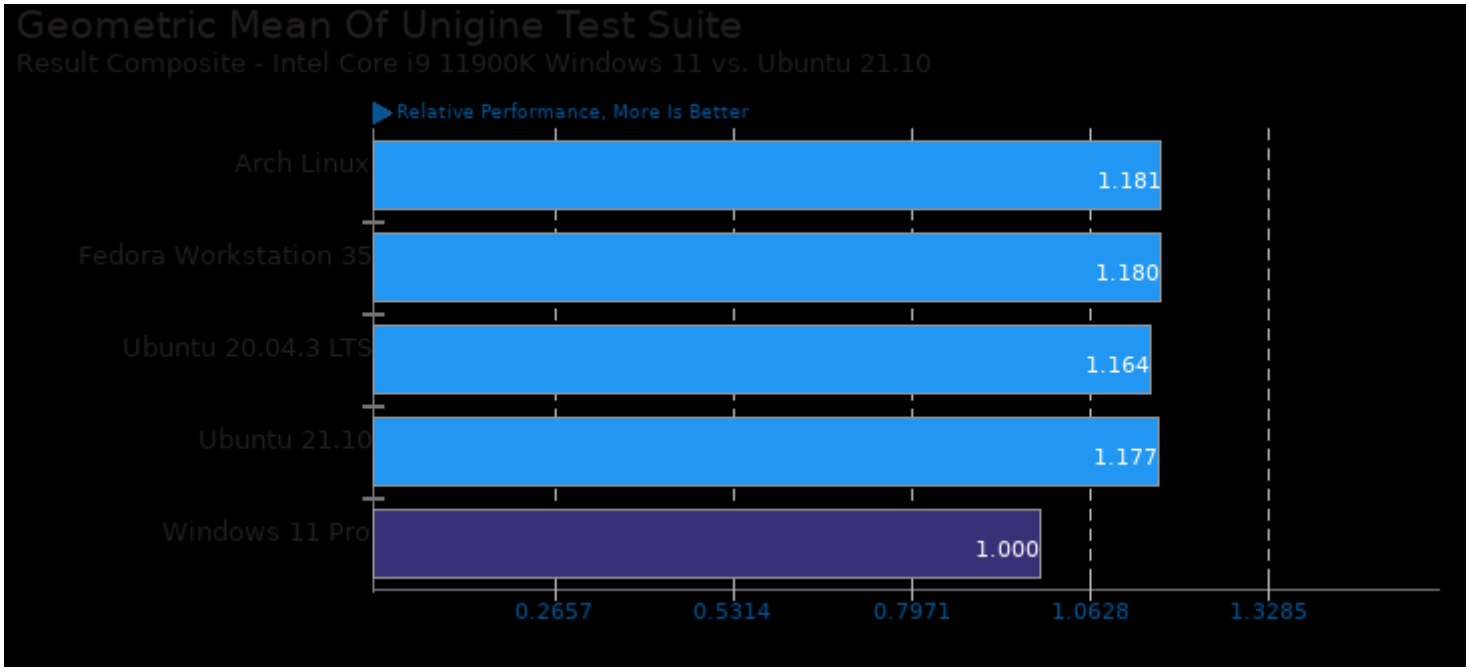


Geometric mean based upon tests: pts/dacapobench, pts/renaissance, pts/svt-av1, pts/dav1d, pts/stockfish, pts/asmfish, system/gimp, pts/blender, pts/appleseed, pts/pybench and pts/phpbench

Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

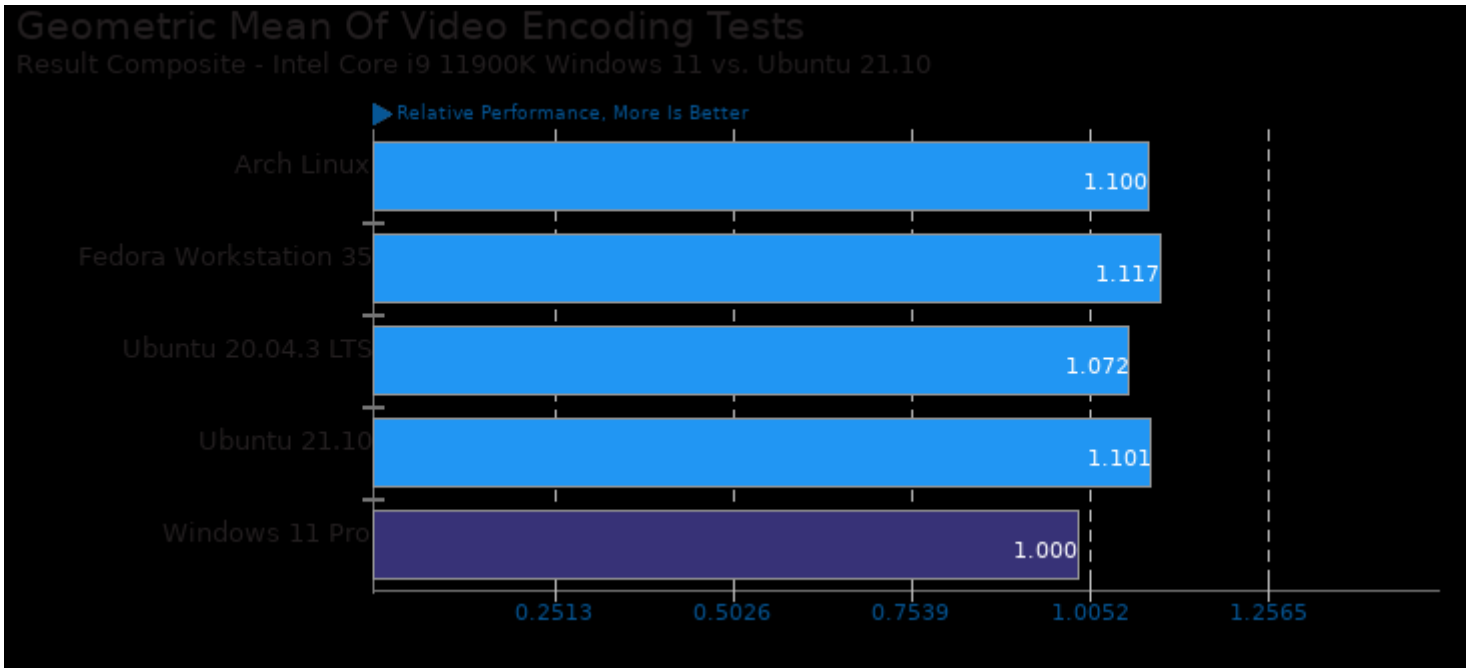


Geometric mean based upon tests: pts/encode-flac, pts/pybench, pts/phpbench and pts/git

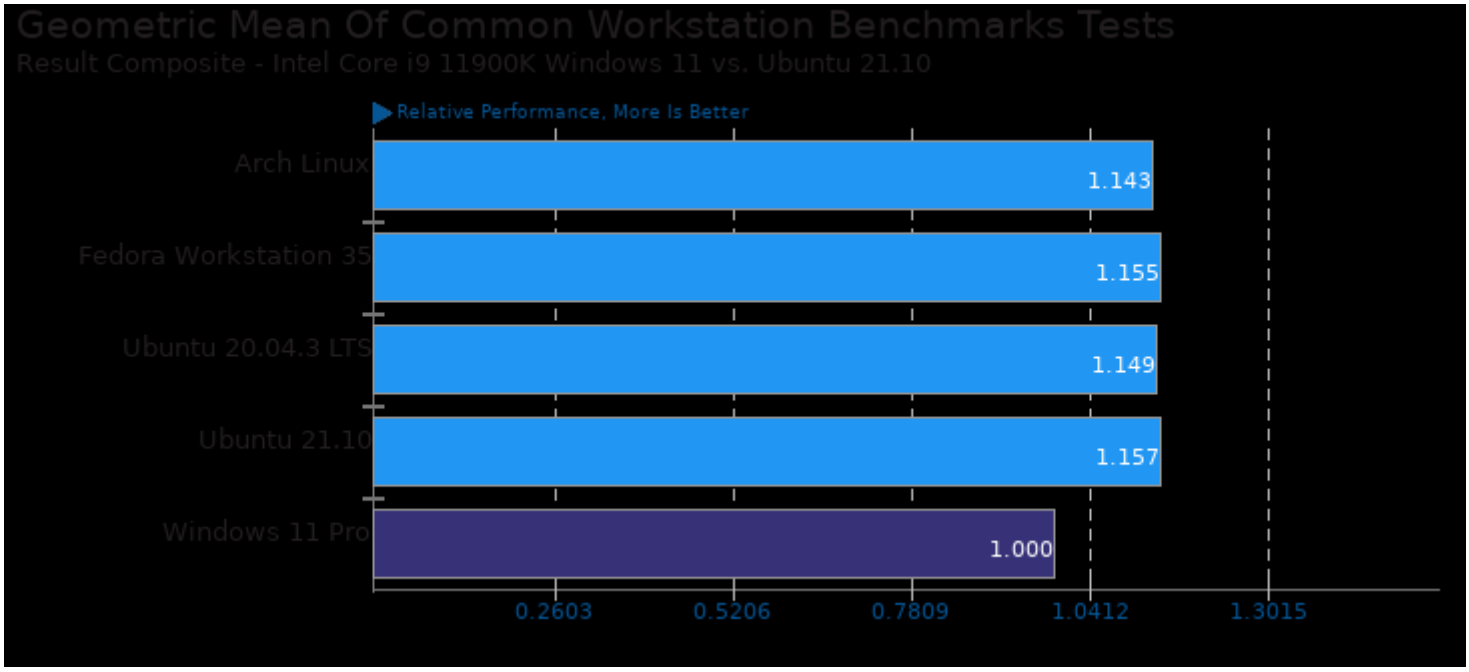


Geometric mean based upon tests: pts/unigine-valley and pts/unigine-heaven

Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



Geometric mean based upon tests: pts/dav1d, pts/svt-av1 and pts/avifenc



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 10:33.