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## Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

Benchmarks by Michael Larabel.

### Automated Executive Summary

*Ubuntu 21.10 had the most wins, coming in first place for 86% of the tests.*

*Based on the geometric mean of all complete results, the fastest (Ubuntu 21.10) was 1.129x the speed of the slowest (Windows 11 Pro).*

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

*PHPBench (PHP Benchmark Suite) at 1.829x*

*Renaissance (Test: Scala Dotty) at 1.743x*

*DaCapo Benchmark (Java Test: Tradesoap) at 1.707x*

*Git (Time To Complete Common Git Commands) at 1.527x*

*Unigine Valley (Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL) at 1.493x*

*GravityMark (Resolution: 1920 x 1080 - Renderer: OpenGL) at 1.41x*

*PyBench (Total For Average Test Times) at 1.362x*

*Renaissance (Test: Genetic Algorithm Using Jenetics + Futures) at 1.271x*

*GravityMark (Resolution: 3840 x 2160 - Renderer: OpenGL) at 1.218x*

*LuxCoreRender (Scene: Rainbow Colors and Prism - Acceleration: CPU) at 1.186x.*

## 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: 000000040000000

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-ito-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 + srbs: Not affected + tsx\_async\_abort: Not affected

	Windows 11 Pro	Ubuntu 21.10
Appleseed - Emily (sec)	345.843	324.630903
Normalized	93.87%	100%
Appleseed - Disney Material (sec)	191.63	182.333552
Normalized	95.15%	100%
Appleseed - Material Tester (sec)	188.279	174.461617
Normalized	92.66%	100%
asmFish - 1.H.M.2.D (Nodes/s)	31954408	31513079

Blender - BMW27 - CPU-Only (sec)	Normalized Standard Deviation	100% 0.6%	98.62% 2.3%
Blender - Classroom - CPU-Only (sec)	Normalized Standard Deviation	84.36% 0.1%	100% 0.1%
Blender - Fishy Cat - CPU-Only (sec)	Normalized Standard Deviation	85.23% 0.2%	100% 0.3%
Blender - Barbershop - CPU-Only (sec)	Normalized Standard Deviation	85.06% 0.4%	100% 0.2%
Blender - Pabellon Barcelona - CPU-Only (sec)	Normalized Standard Deviation	85.17% 0.2%	100% 0.1%
Chaos Group V-RAY - CPU (vsamples)	Normalized Standard Deviation	89.18% 0%	100% 0.4%
DaCapo Benchmark - Jython (msec)	Normalized Standard Deviation	91.03% 0.5%	100% 0.5%
DaCapo Benchmark - Tradesoap (msec)	Normalized Standard Deviation	90.59% 2%	100% 2.5%
DaCapo Benchmark - Tradebeans (msec)	Normalized Standard Deviation	5569 2.2%	3262 1.6%
dav1d - Summer Nature 4K (FPS)	Normalized Standard Deviation	58.57% 2.2%	100% 1.6%
FLAC Audio Encoding - WAV To FLAC (sec)	Normalized Standard Deviation	196.78 0.1%	199.83 0.1%
GIMP - resize (sec)	Normalized Standard Deviation	98.47% 0.1%	100% 0.1%
GIMP - rotate (sec)	Normalized Standard Deviation	91.49% 4.1%	100% 1.6%
GIMP - auto-levels (sec)	Normalized Standard Deviation	98.47% 0.1%	100% 0.1%
GIMP - unsharp-mask (sec)	Normalized Standard Deviation	98.47% 3.5%	100% 0.5%
GIMP - resize (sec)	Normalized Standard Deviation	98.47% 42.271	100% 1.8%
GIMP - rotate (sec)	Normalized Standard Deviation	98.47% 44.021	100% 8.235
GIMP - auto-levels (sec)	Normalized Standard Deviation	98.47% 46.553	100% 8.603
GIMP - unsharp-mask (sec)	Normalized Standard Deviation	98.47% 56.131	100% 10.406
Git - T.T.C.C.G.C (sec)	Normalized Standard Deviation	65.47% 0.2%	100% 0.1%

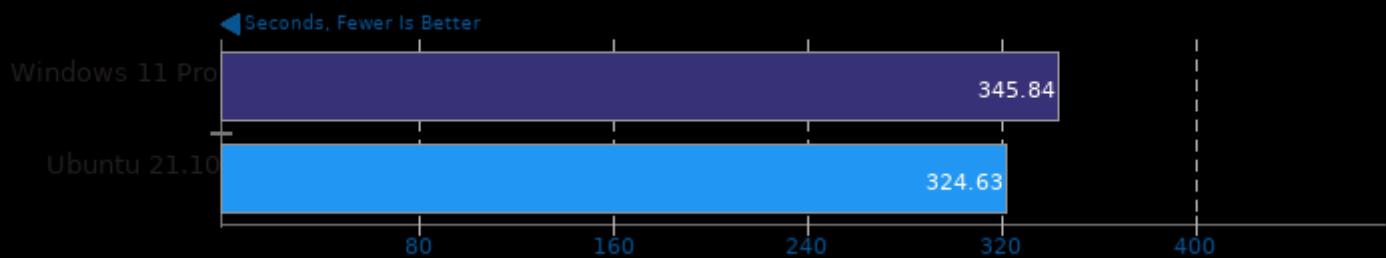
<b>GravityMark - 1920 x 1080 - OpenGL (FPS)</b>	<b>93.5</b>	<b>131.8</b>
Normalized	70.94%	100%
Standard Deviation	0.3%	0.7%
<b>GravityMark - 1920 x 1080 - Vulkan (FPS)</b>	<b>127.0</b>	<b>128.3</b>
Normalized	98.99%	100%
Standard Deviation	0.1%	0.2%
<b>GravityMark - 3840 x 2160 - OpenGL (FPS)</b>	<b>66.0</b>	<b>80.4</b>
Normalized	82.09%	100%
Standard Deviation	0.1%	0.3%
<b>GravityMark - 3840 x 2160 - Vulkan (FPS)</b>	<b>82.2</b>	<b>81.3</b>
Normalized	100%	98.91%
Standard Deviation	0.6%	0%
<b>IndigoBench - CPU - Bedroom (M samples/s)</b>	<b>2.024</b>	<b>2.084</b>
Normalized	97.12%	100%
Standard Deviation	0.7%	0.2%
<b>IndigoBench - CPU - Supercar (M samples/s)</b>	<b>4.749</b>	<b>4.855</b>
Normalized	97.82%	100%
Standard Deviation	0.1%	0.1%
<b>Intel Open Image Denoise - RT.Idr_alb_nrm.3840x2160 (Images / Sec)</b>	<b>0.43</b>	<b>0.44</b>
Normalized	97.73%	100%
Standard Deviation	0%	0%
<b>libavif avifenc - 0 (sec)</b>	<b>65.834</b>	<b>57.682</b>
Normalized	87.62%	100%
Standard Deviation	0.4%	1.1%
<b>libavif avifenc - 2 (sec)</b>	<b>34.060</b>	<b>29.846</b>
Normalized	87.63%	100%
Standard Deviation	0.3%	0.5%
<b>libavif avifenc - 6 (sec)</b>	<b>11.703</b>	<b>10.410</b>
Normalized	88.95%	100%
Standard Deviation	0.3%	0.6%
<b>libavif avifenc - 6, Lossless (sec)</b>	<b>55.963</b>	<b>51.440</b>
Normalized	91.92%	100%
Standard Deviation	0.7%	0.2%
<b>LuxCoreRender - DLSC - CPU (M samples/sec)</b>	<b>2.02</b>	<b>2.12</b>
Normalized	95.28%	100%
Standard Deviation	0%	0.7%
<b>LuxCoreRender - Danish Mood - CPU (M samples/sec)</b>	<b>1.73</b>	<b>1.47</b>
Normalized	100%	84.97%
Standard Deviation	2.1%	1.6%
<b>LuxCoreRender - Orange Juice - CPU (M samples/sec)</b>	<b>3.32</b>	<b>3.46</b>
Normalized	95.95%	100%
Standard Deviation	0.2%	0.2%
<b>LuxCoreRender - LuxCore Benchmark - CPU (M samples/sec)</b>	<b>1.89</b>	<b>1.69</b>
Normalized	100%	89.42%
Standard Deviation	0.3%	0.6%
<b>LuxCoreRender - R.C.a.P - CPU (M samples/sec)</b>	<b>7.25</b>	<b>8.60</b>
Normalized	84.3%	100%
Standard Deviation	1.1%	1.1%
<b>Opus Codec Encoding - WAV To Opus Encode (sec)</b>	<b>7.413</b>	<b>6.437</b>
Normalized	86.83%	100%
Standard Deviation	3.6%	0.8%
<b>ParaView - Many Spheres - 1920 x 1200 (Frames / Sec)</b>	<b>43.05</b>	<b>43.98</b>
Normalized	97.89%	100%

	Standard Deviation	0.1%	0%
ParaView - Many Spheres - 1920 x 1200 (MiPolys / Sec)	Normalized	97.88%	100%
	Standard Deviation	0.1%	0%
ParaView - Wavelet Contour - 1920 x 1200 (Frames / Sec)	Normalized	89.42%	100%
	Standard Deviation	0.4%	0.1%
ParaView - Wavelet Contour - 1920 x 1200 (MiPolys / Sec)	Normalized	89.42%	100%
	Standard Deviation	0.4%	0.1%
PHPBench - P.B.S (Score)	Normalized	54.67%	100%
	Standard Deviation	1.3%	1.1%
PyBench - T.F.A.T.T (Milliseconds)	Normalized	73.45%	100%
	Standard Deviation	0.5%	1.1%
Renaissance - Scala Dotty (ms)	Normalized	57.38%	100%
	Standard Deviation	0.9%	1%
Renaissance - Savina Reactors.IO (ms)	Normalized	99.91%	100%
	Standard Deviation	2.2%	2.3%
Renaissance - F.H.R (ms)	Normalized	1935	1636
	Standard Deviation	84.57%	100%
	Standard Deviation	0.2%	0.6%
Renaissance - A.U.C.T (ms)	Normalized	8590	9700
	Standard Deviation	100%	88.55%
	Standard Deviation	3.6%	0.2%
Renaissance - G.A.U.J.F (ms)	Normalized	1449	1140
	Standard Deviation	78.67%	100%
	Standard Deviation	2.1%	2.4%
Stockfish - Total Time (Nodes/s)	Normalized	26368403	28857997
	Standard Deviation	91.37%	100%
	Standard Deviation	1.3%	2.5%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	Normalized	16.825	19.586
	Standard Deviation	85.9%	100%
	Standard Deviation	1.6%	0.2%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	Normalized	72.218	75.376
	Standard Deviation	95.81%	100%
	Standard Deviation	5.6%	0.6%
TSCP - A.C.P (Nodes/s)	Normalized	1905851	1870854
	Standard Deviation	100%	98.16%
	Standard Deviation	0.5%	0.2%
Unigine Heaven - 1920 x 1080 - Fullscreen - OpenGL (FPS)	Normalized	167.842	182.050
	Standard Deviation	92.2%	100%
	Standard Deviation	0.3%	0.1%
Unigine Valley - 1920 x 1080 - Fullscreen - OpenGL (FPS)	Normalized	131.276	195.961
	Standard Deviation	66.99%	100%
	Standard Deviation	0.1%	0.2%

Unigine Valley - 3840 x 2160 - Fullscreen - OpenGL	<b>48.2306</b>	<b>48.5166</b>
	(FPS)	
Normalized	99.41%	100%
Standard Deviation	0%	0%
WavPack Audio Encoding - WAV To WavPack (sec)	<b>11.659</b>	<b>11.753</b>
Normalized	100%	99.2%
Standard Deviation	0.1%	0.2%

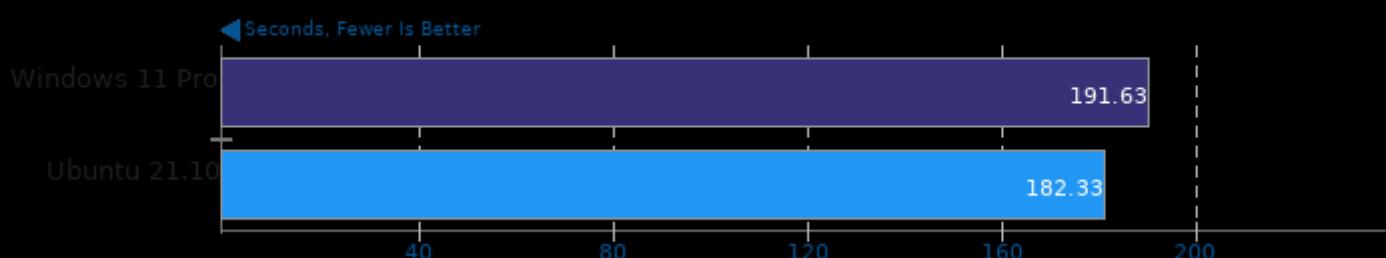
## Appleseed 2.0 Beta

Scene: Emily



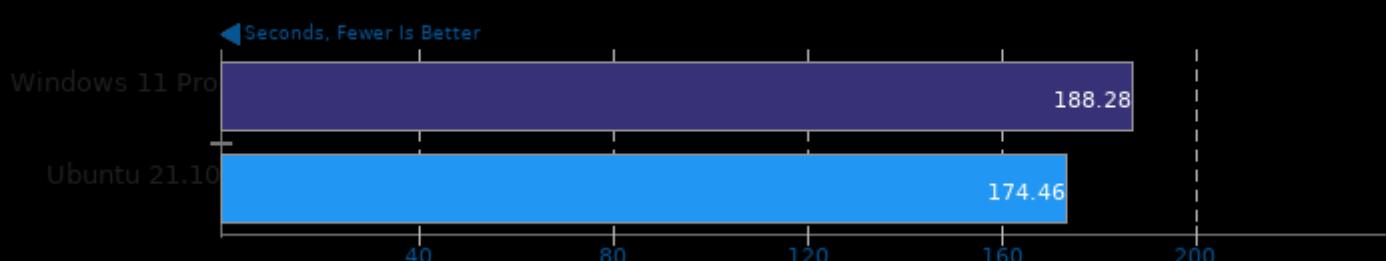
## Appleseed 2.0 Beta

Scene: Disney Material



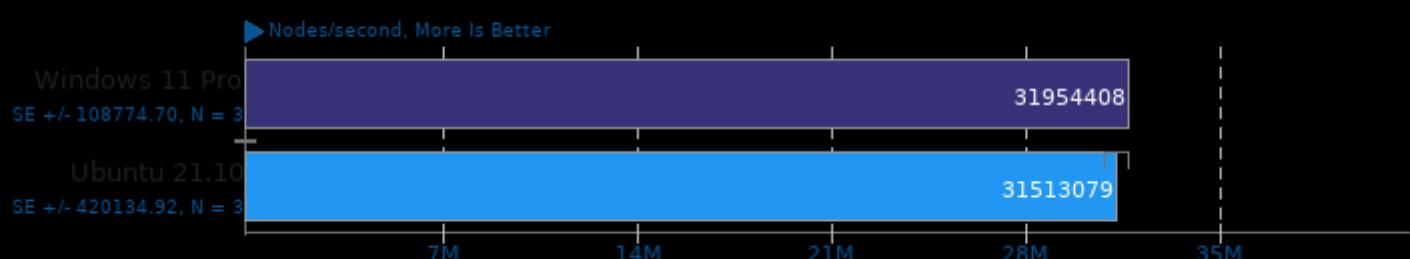
## Appleseed 2.0 Beta

Scene: Material Tester



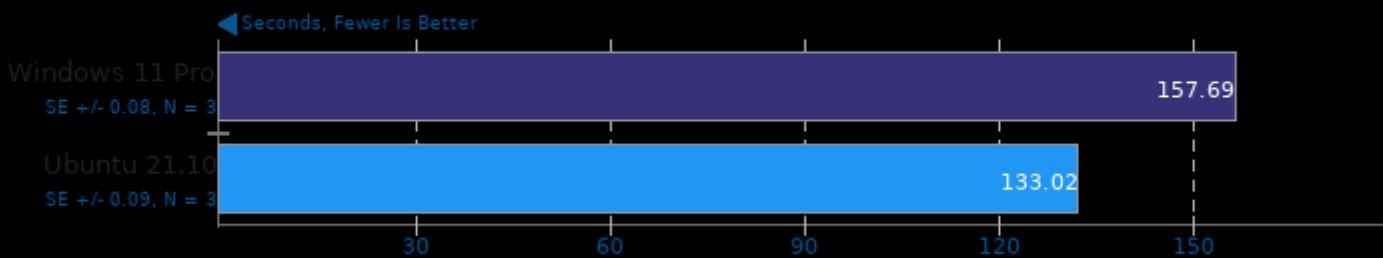
## asmFish 2018-07-23

1024 Hash Memory, 26 Depth



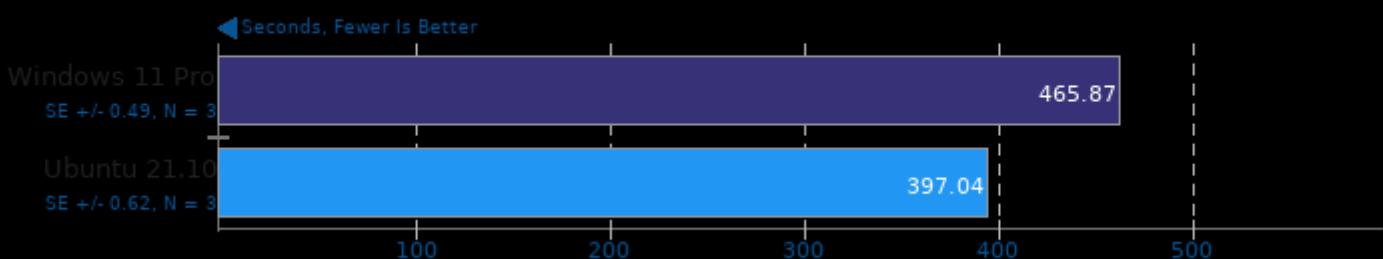
## Blender 2.92

Blend File: BMW27 - Compute: CPU-Only



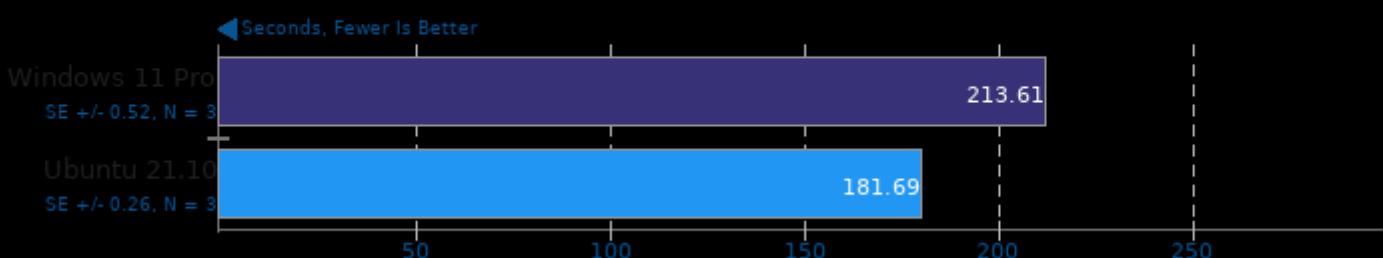
## Blender 2.92

Blend File: Classroom - Compute: CPU-Only



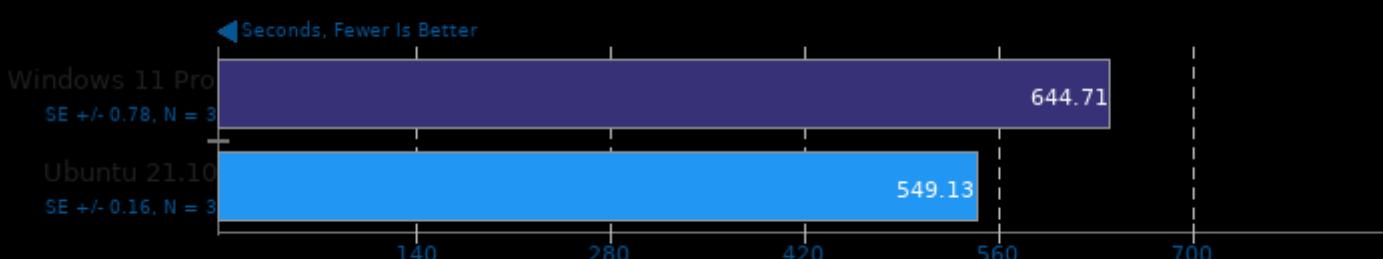
## Blender 2.92

Blend File: Fishy Cat - Compute: CPU-Only



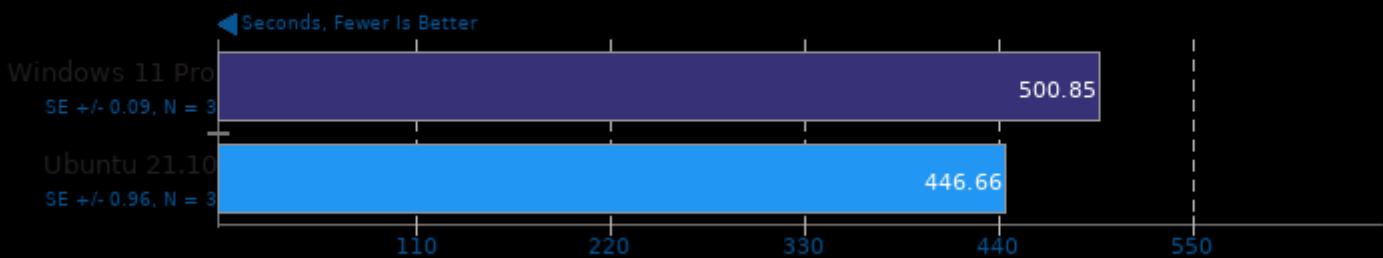
## Blender 2.92

Blend File: Barbershop - Compute: CPU-Only



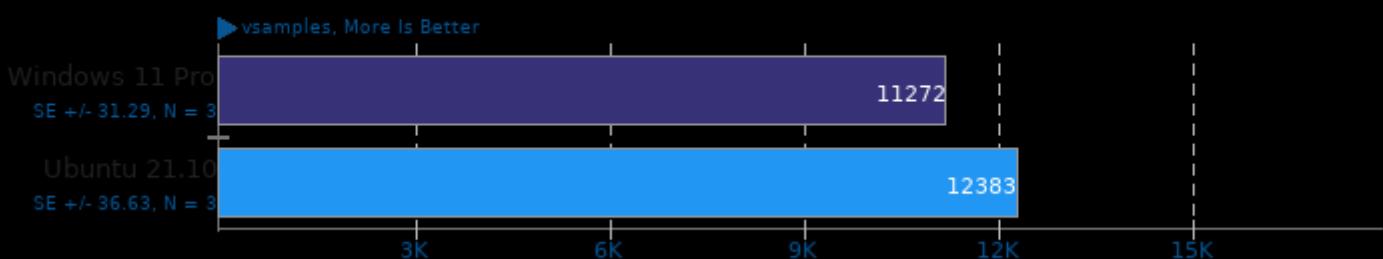
## Blender 2.92

Blend File: Pabellon Barcelona - Compute: CPU-Only



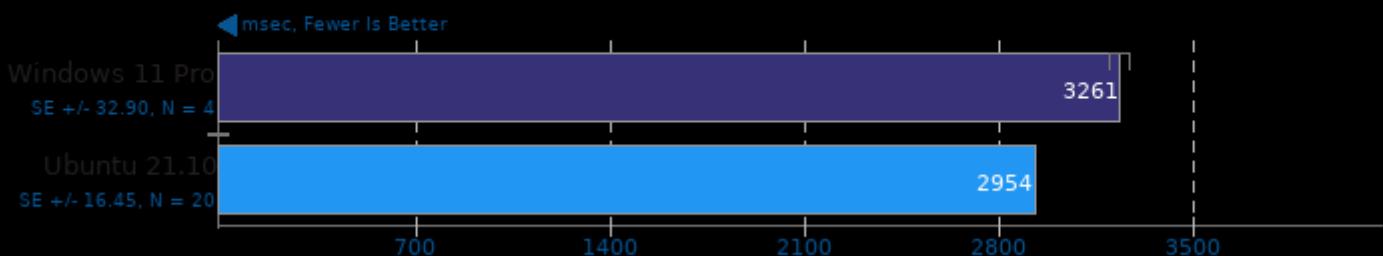
## Chaos Group V-RAY 5

Mode: CPU



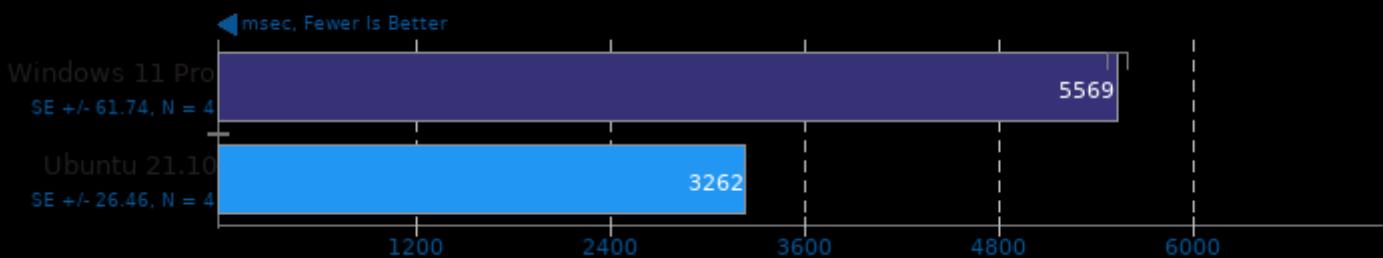
## DaCapo Benchmark 9.12-MR1

Java Test: Jython



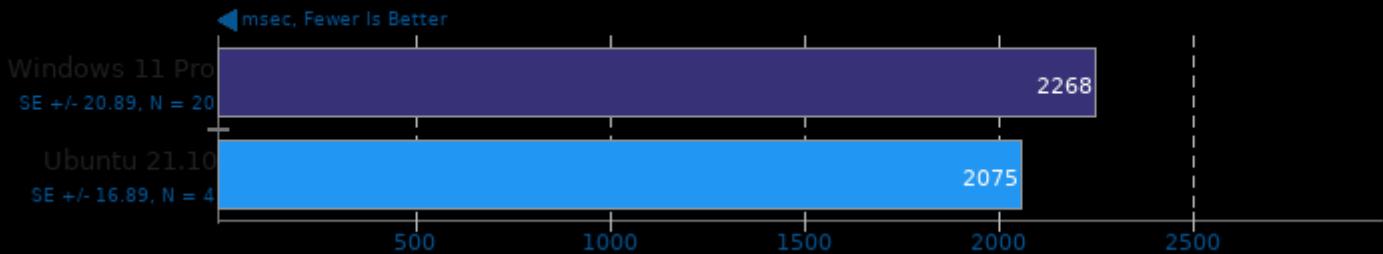
## DaCapo Benchmark 9.12-MR1

Java Test: Tradesoap



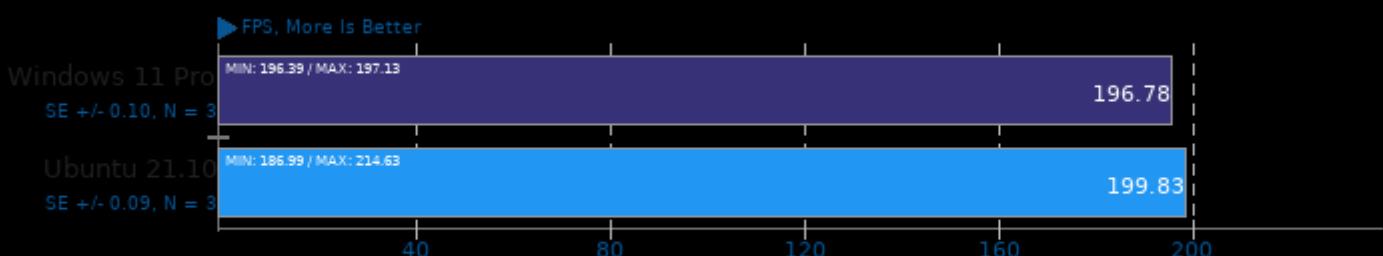
## DaCapo Benchmark 9.12-MR1

Java Test: Tradebeans



## dav1d 0.9.2

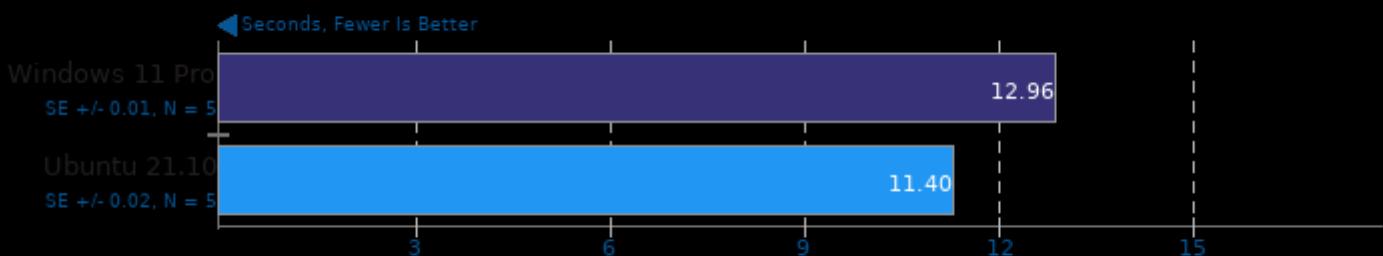
Video Input: Summer Nature 4K



1. (CC) gcc options: -pthread -lm

## FLAC Audio Encoding 1.3.3

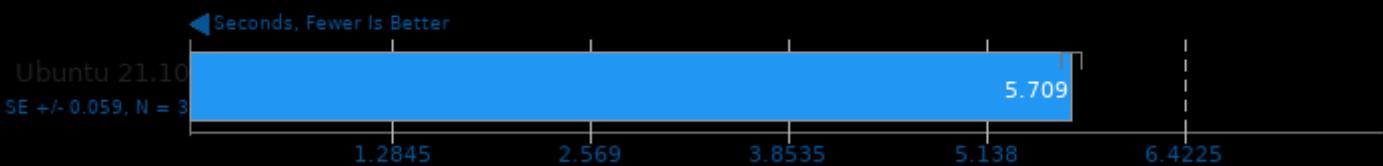
WAV To FLAC



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

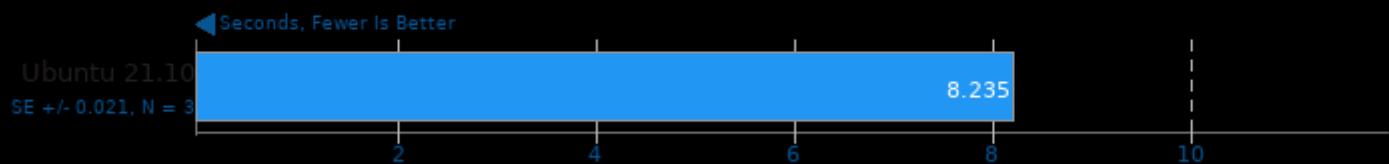
## GIMP 2.10.24

Test: resize



## GIMP 2.10.24

Test: rotate



## GIMP 2.10.24

Test: auto-levels



## GIMP 2.10.24

Test: unsharp-mask



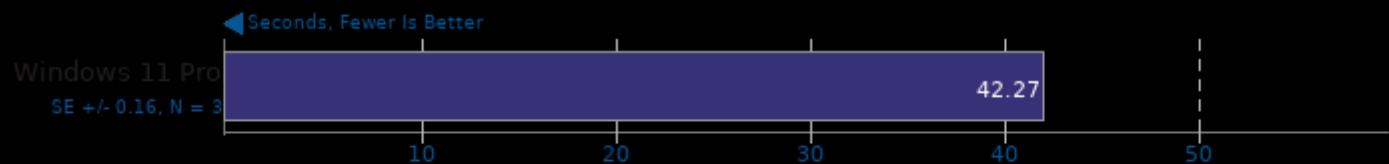
## GIMP 2.10.28

Test: resize



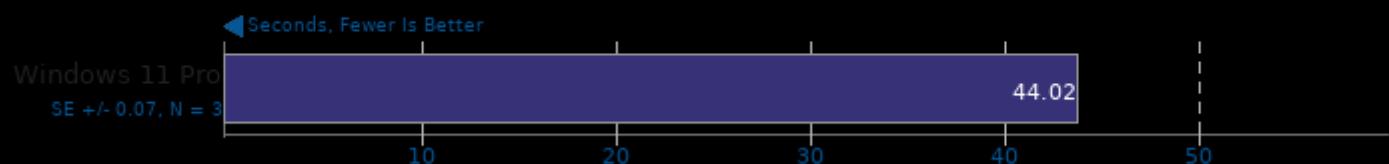
## GIMP 2.10.28

Test: rotate



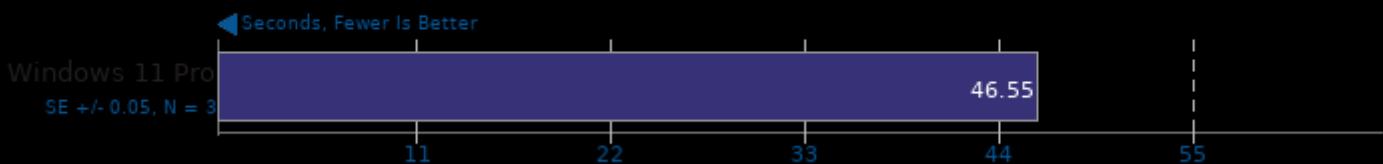
## GIMP 2.10.28

Test: auto-levels



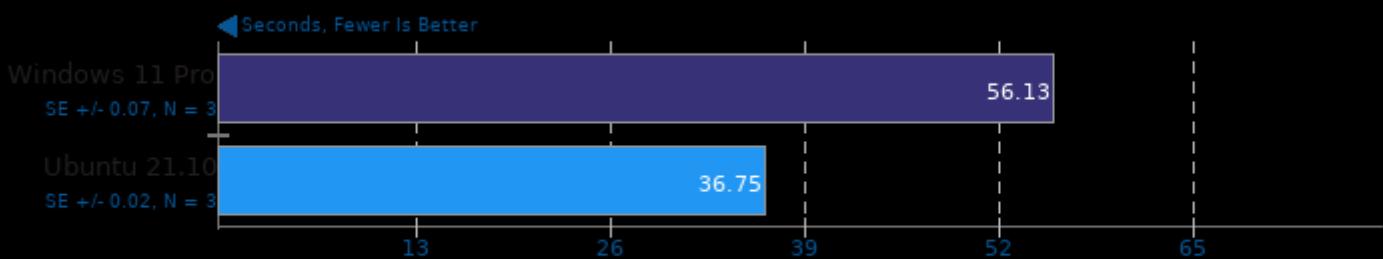
## GIMP 2.10.28

Test: unsharp-mask



## Git

Time To Complete Common Git Commands

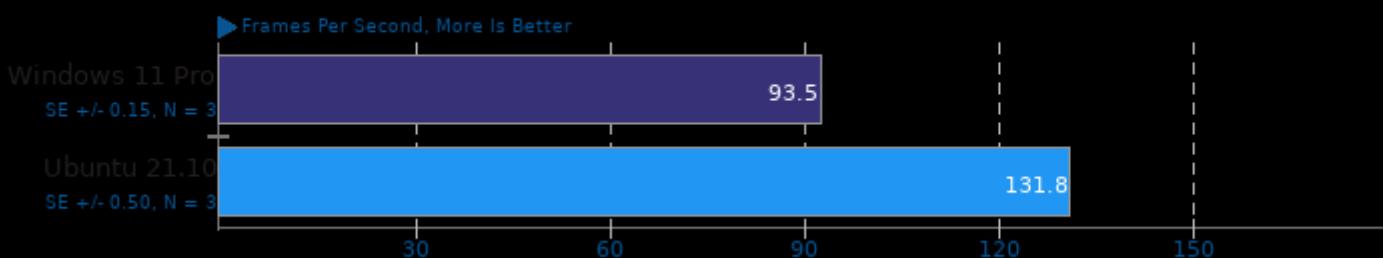


1. Windows 11 Pro: git version 2.33.1.windows.1

2. Ubuntu 21.10: git version 2.32.0

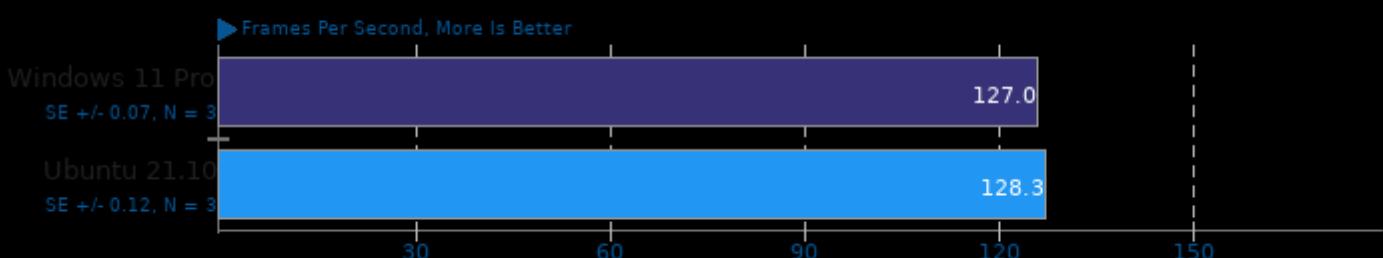
## GravityMark 1.2

Resolution: 1920 x 1080 - Renderer: OpenGL



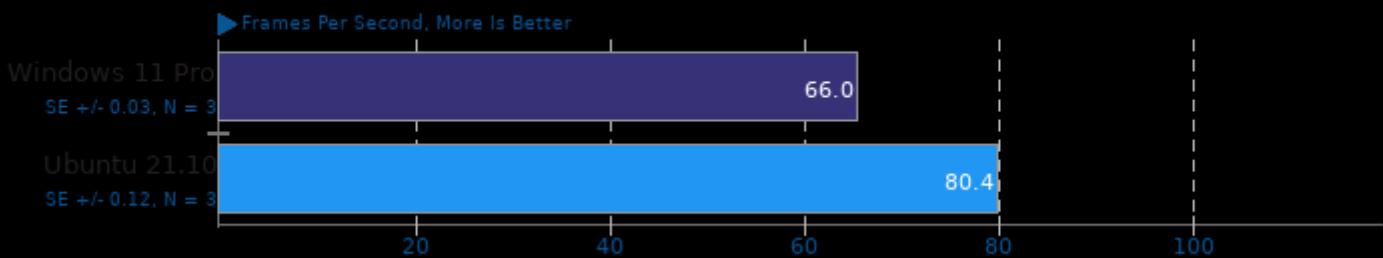
## GravityMark 1.2

Resolution: 1920 x 1080 - Renderer: Vulkan



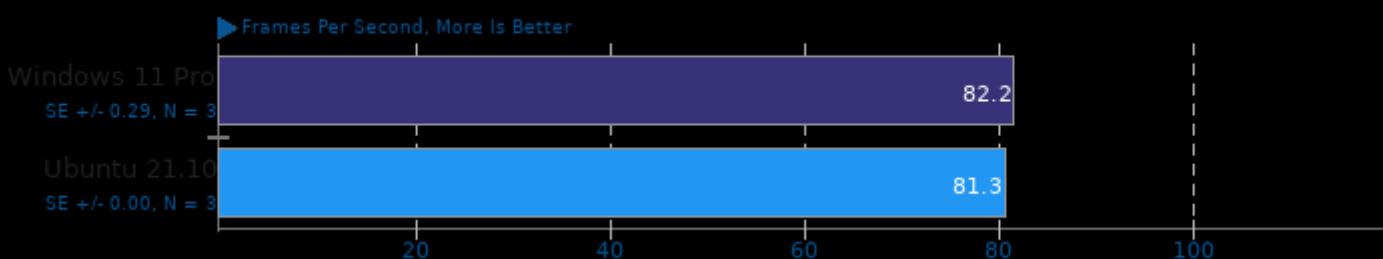
## GravityMark 1.2

Resolution: 3840 x 2160 - Renderer: OpenGL



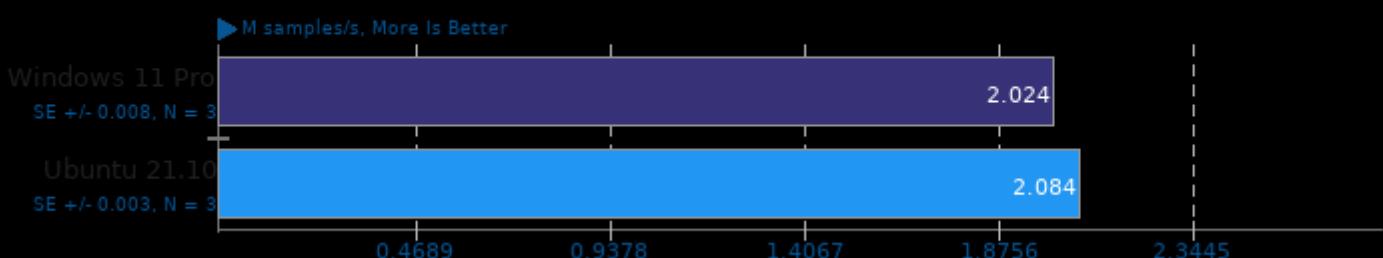
## GravityMark 1.2

Resolution: 3840 x 2160 - Renderer: Vulkan



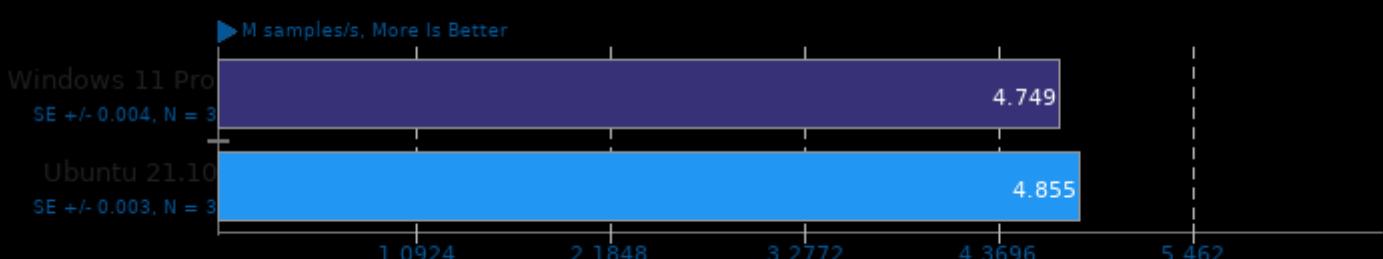
## IndigoBench 4.4

Acceleration: CPU - Scene: Bedroom



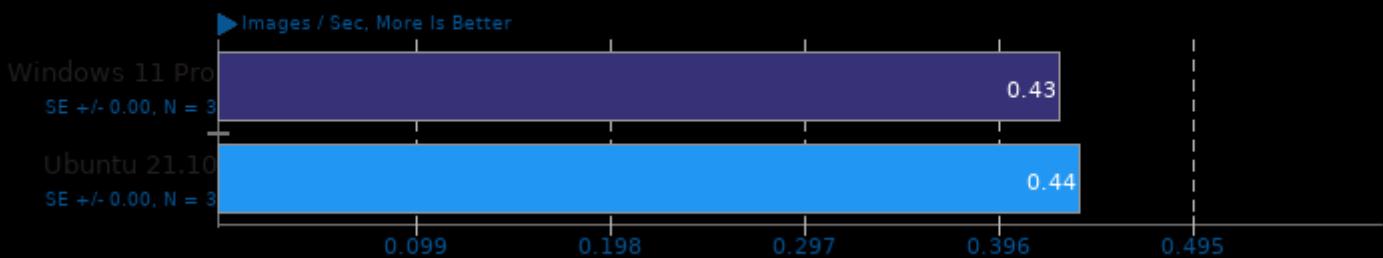
## IndigoBench 4.4

Acceleration: CPU - Scene: Supercar



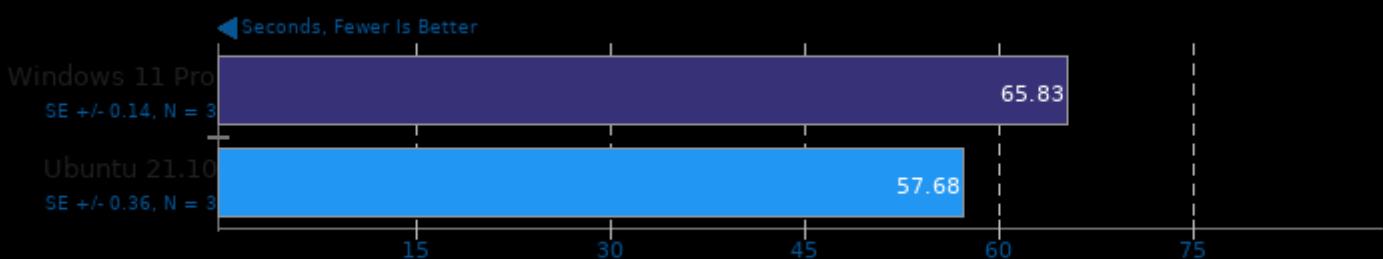
## Intel Open Image Denoise 1.4.0

Run: RT.Idr\_alb\_nrm.3840x2160



## libavif avifenc 0.9.0

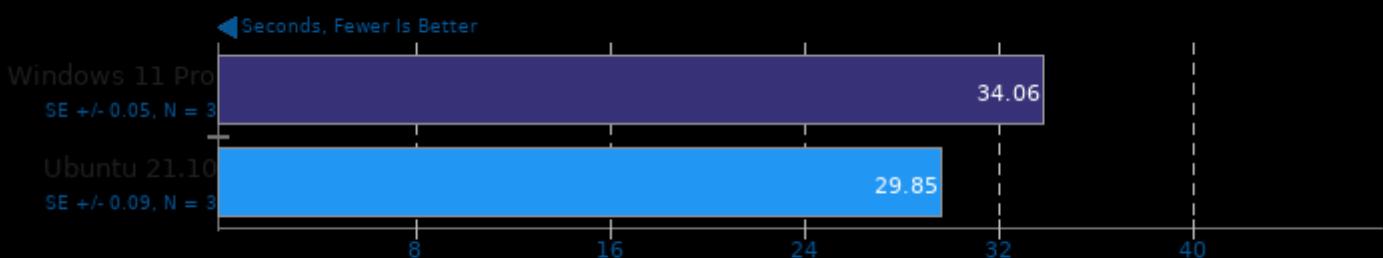
Encoder Speed: 0



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

## libavif avifenc 0.9.0

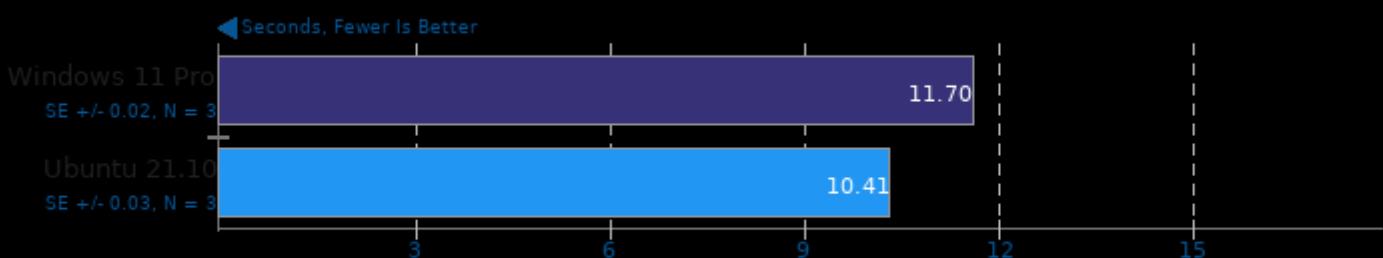
Encoder Speed: 2



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

## libavif avifenc 0.9.0

Encoder Speed: 6

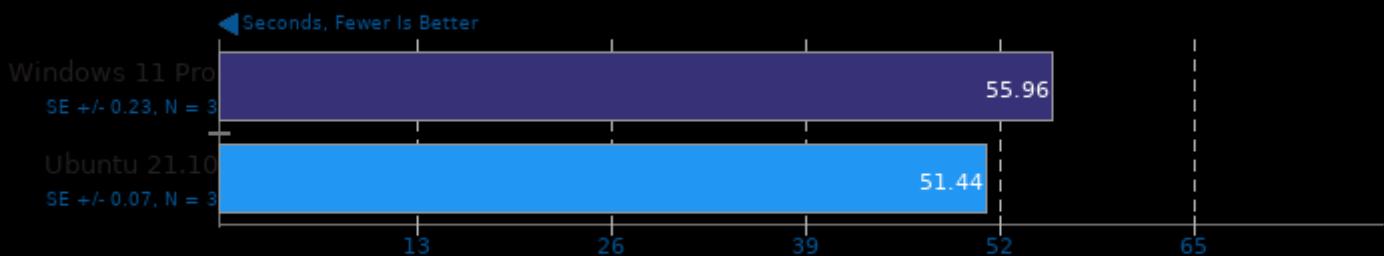


1. (CXX) g++ options: -O3 -fPIC -lm

## Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

### libavif avifenc 0.9.0

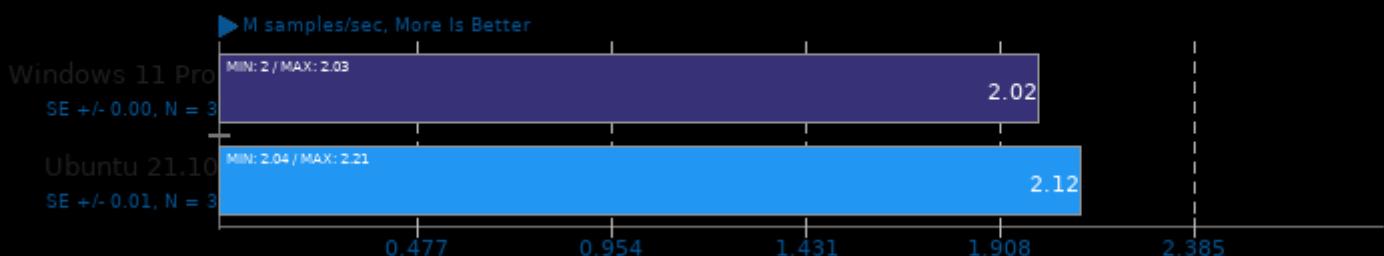
Encoder Speed: 6, Lossless



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

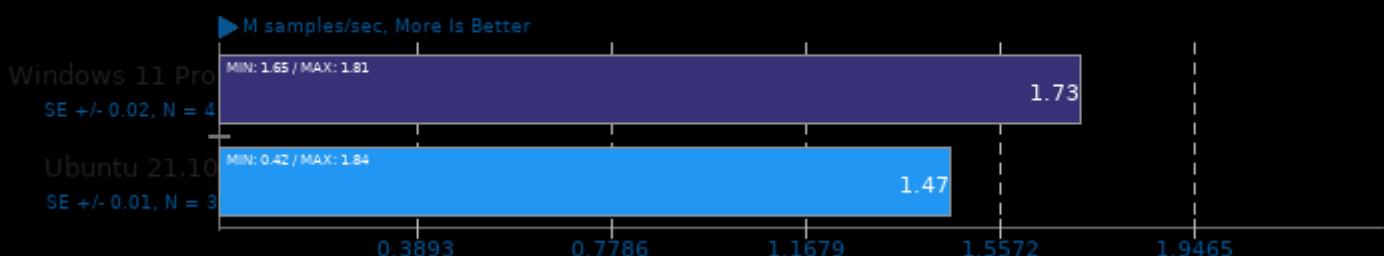
### LuxCoreRender 2.5

Scene: DLSC - Acceleration: CPU



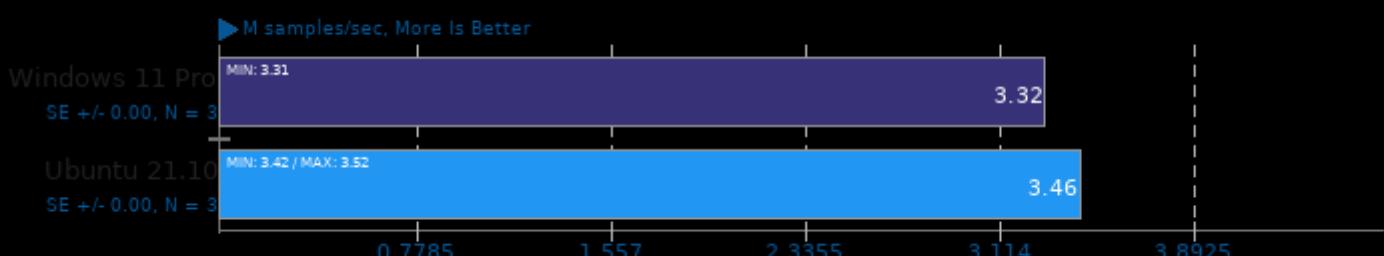
### LuxCoreRender 2.5

Scene: Danish Mood - Acceleration: CPU



### LuxCoreRender 2.5

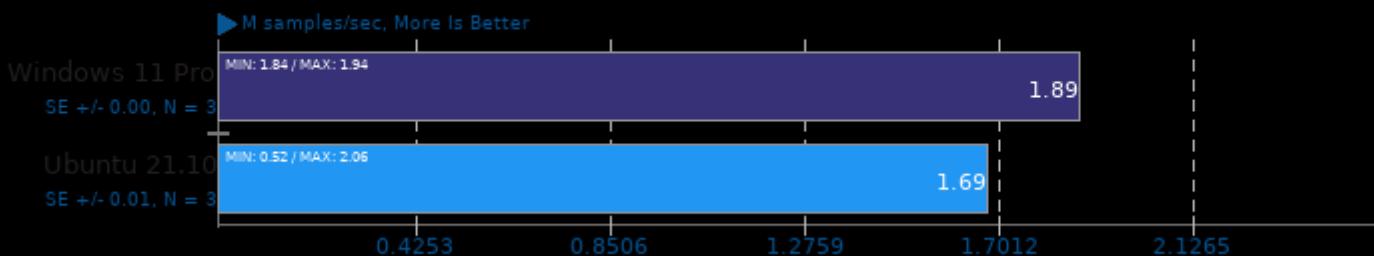
Scene: Orange Juice - Acceleration: CPU



## Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

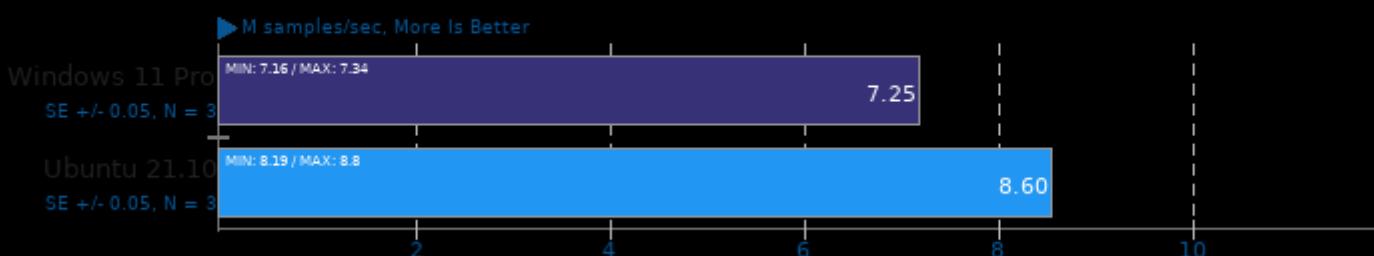
### LuxCoreRender 2.5

Scene: LuxCore Benchmark - Acceleration: CPU



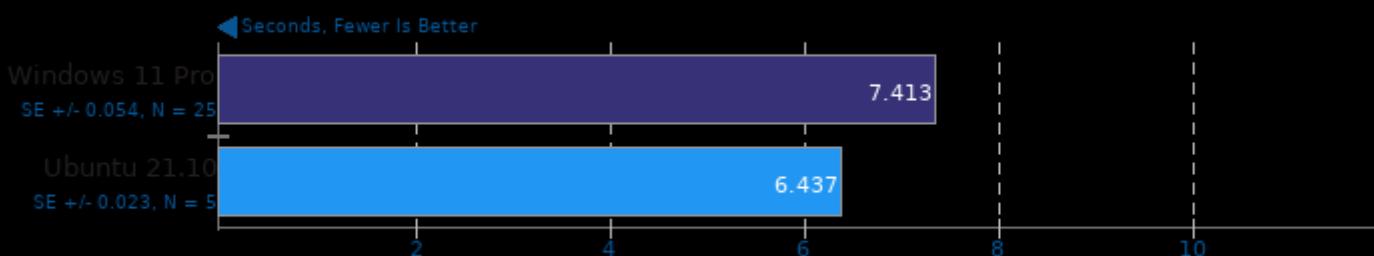
### LuxCoreRender 2.5

Scene: Rainbow Colors and Prism - Acceleration: CPU



### Opus Codec Encoding 1.3.1

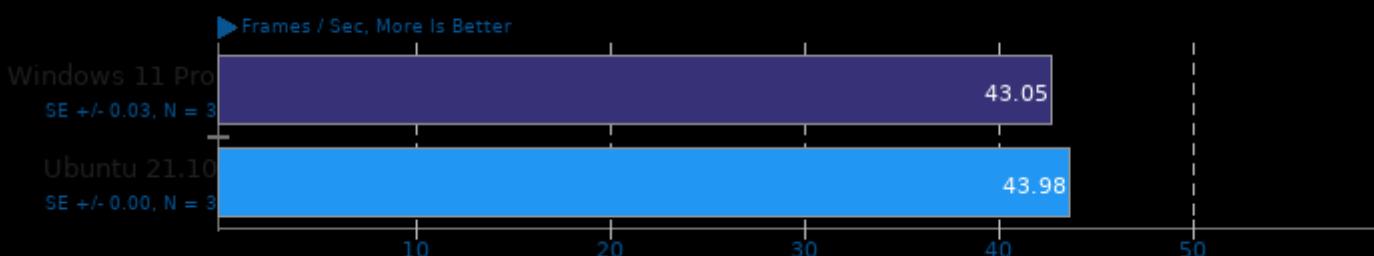
WAV To Opus Encode



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

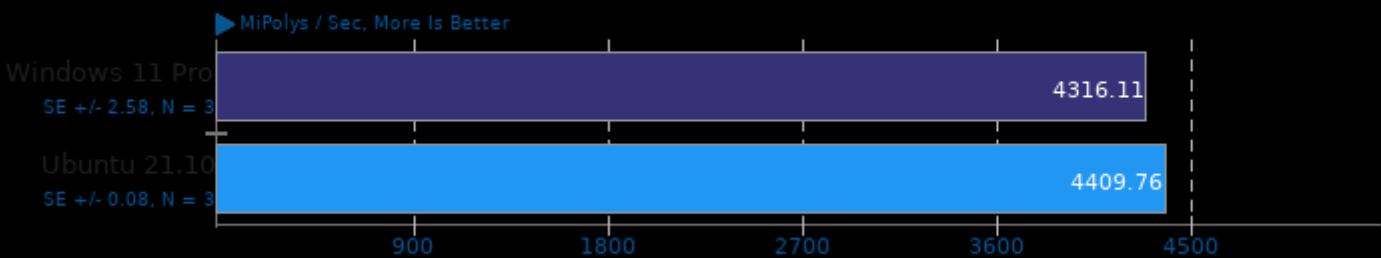
### ParaView 5.9

Test: Many Spheres - Resolution: 1920 x 1200



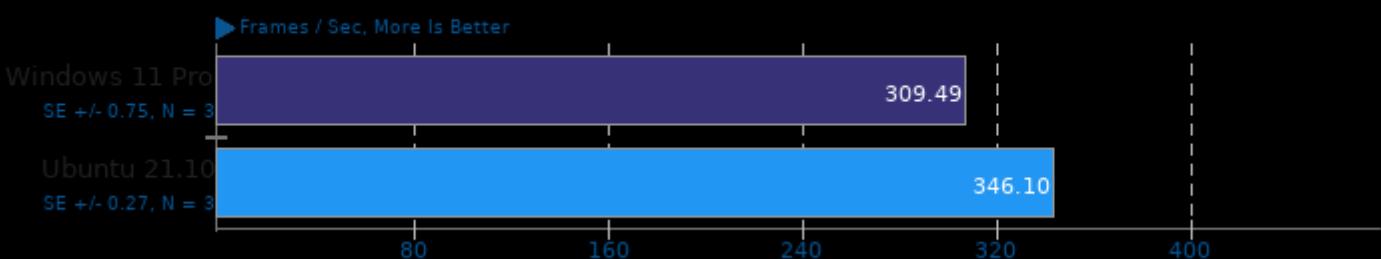
## ParaView 5.9

Test: Many Spheres - Resolution: 1920 x 1200



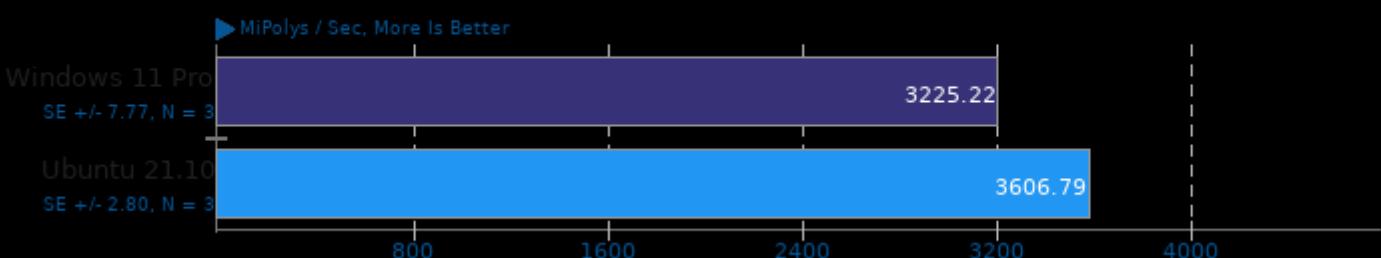
## ParaView 5.9

Test: Wavelet Contour - Resolution: 1920 x 1200



## ParaView 5.9

Test: Wavelet Contour - Resolution: 1920 x 1200



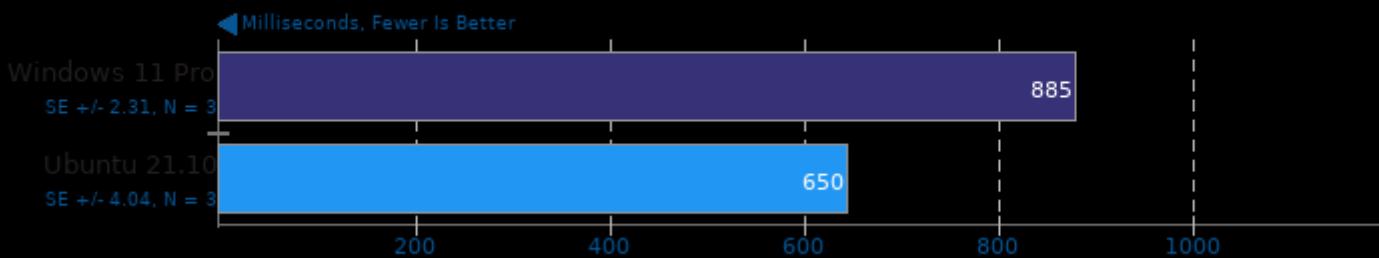
## PHPBench 0.8.1

PHP Benchmark Suite



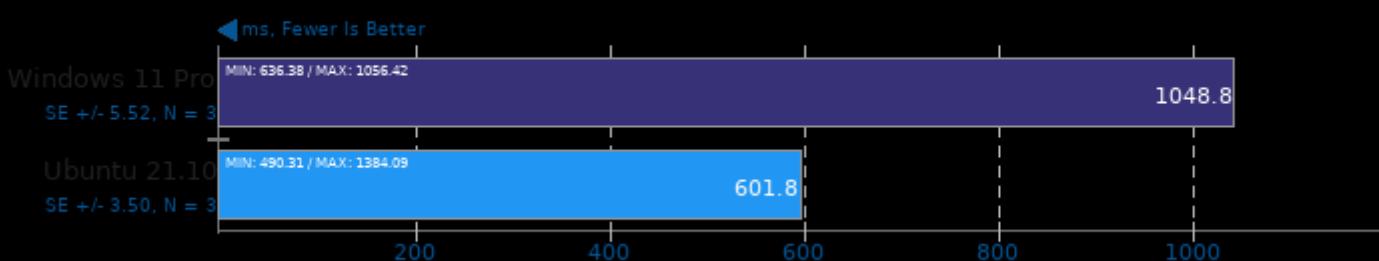
## PyBench 2018-02-16

Total For Average Test Times



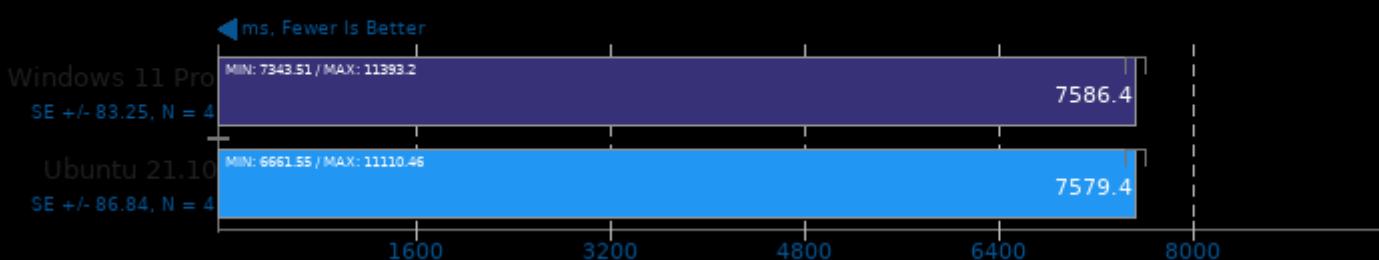
## Renaissance 0.12

Test: Scala Dotty



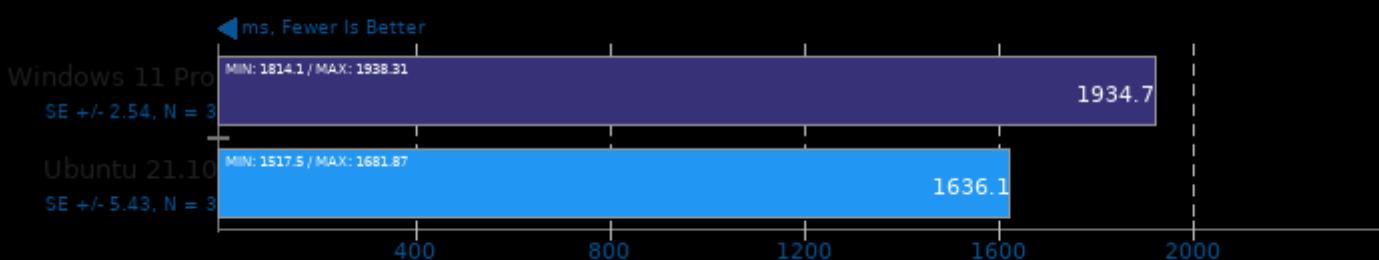
## Renaissance 0.12

Test: Savina Reactors.IO



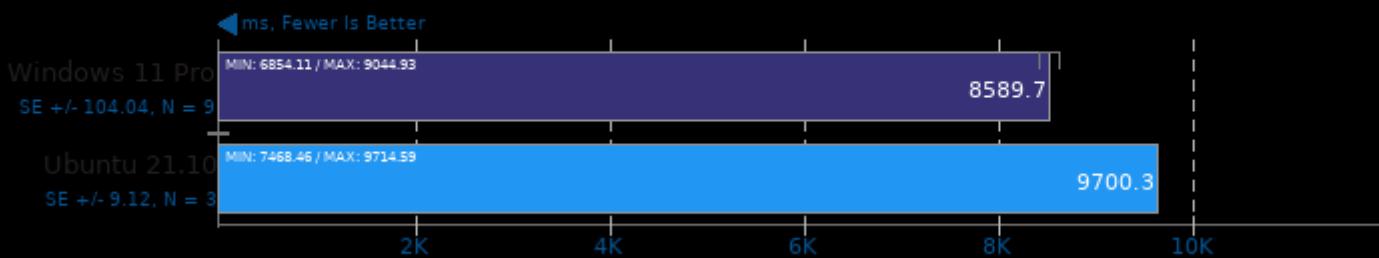
## Renaissance 0.12

Test: Finagle HTTP Requests



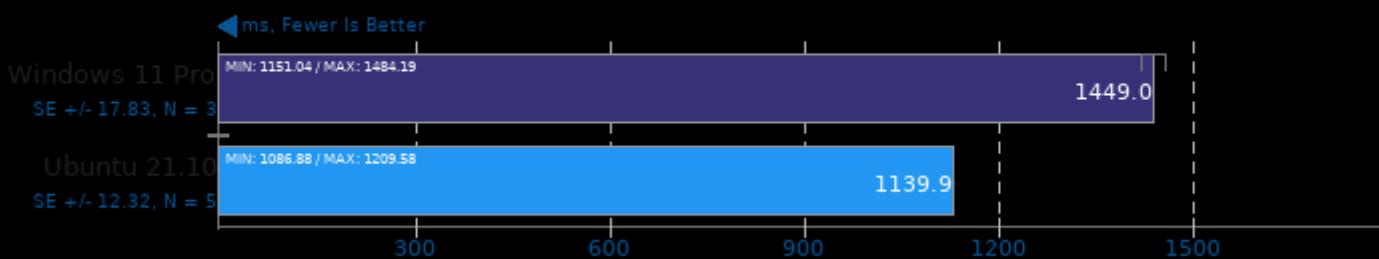
## Renaissance 0.12

Test: Akka Unbalanced Cobwebbed Tree



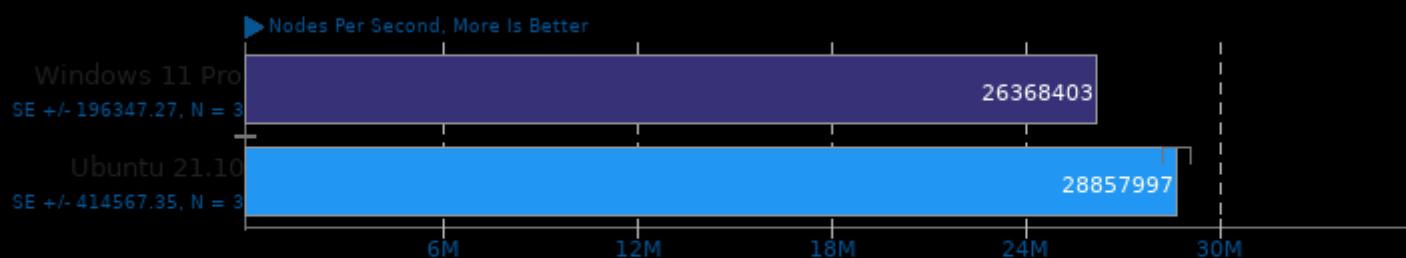
## Renaissance 0.12

Test: Genetic Algorithm Using Jenetics + Futures



## Stockfish 13

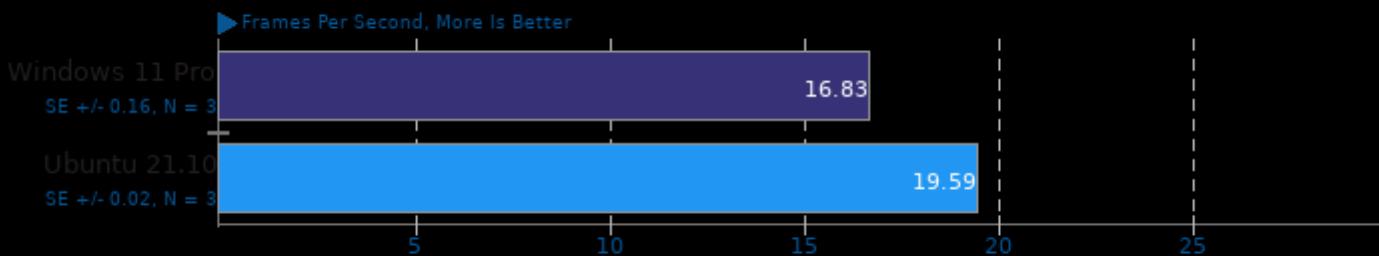
Total Time



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

## SVT-AV1 0.8.7

Encoder Mode: Preset 8 - Input: Bosphorus 4K

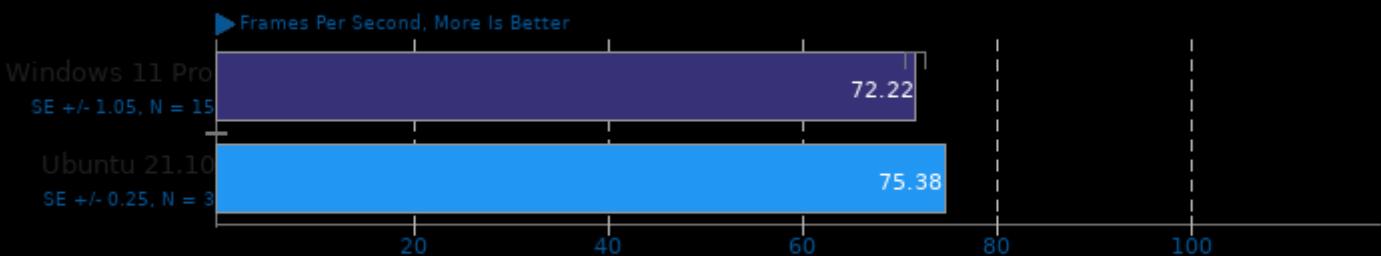


1. (CXX) g++ options: -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

## Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

### SVT-AV1 0.8.7

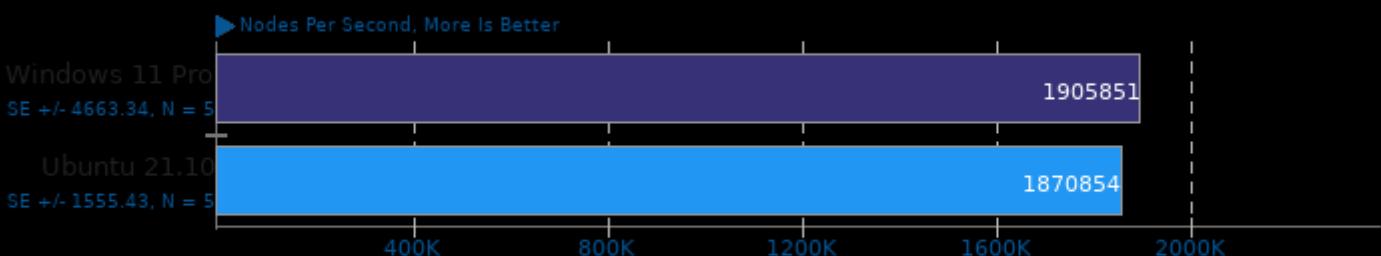
Encoder Mode: Preset 8 - Input: Bosphorus 1080p



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

### TSCP 1.81

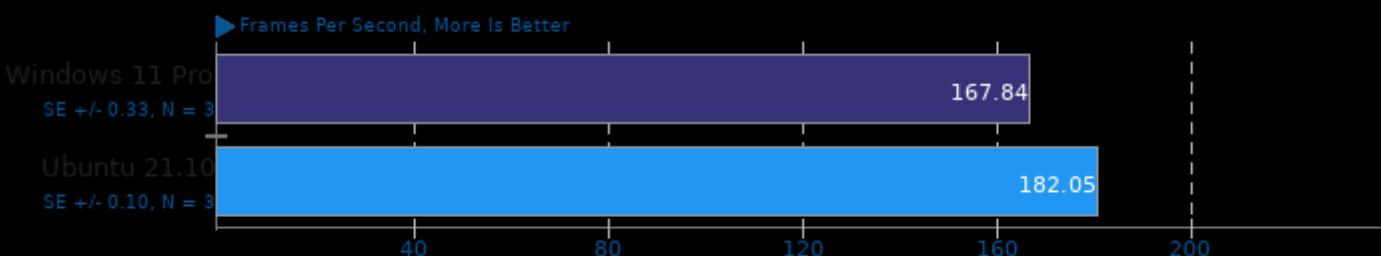
AI Chess Performance



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

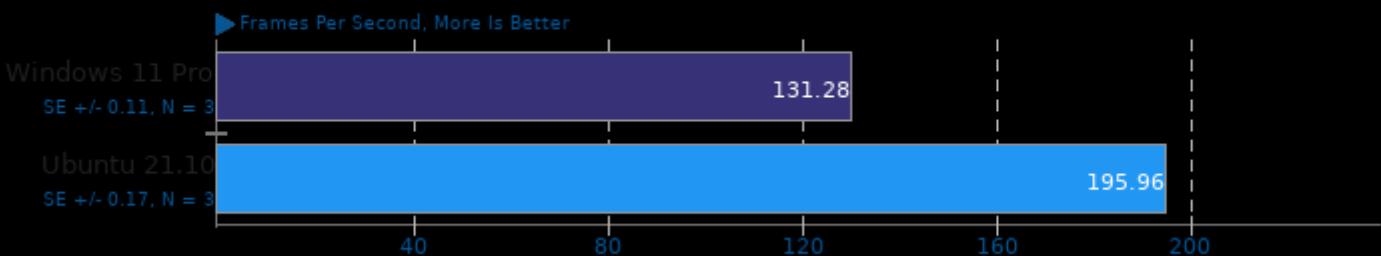
### Unigine Heaven 4.0

Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL



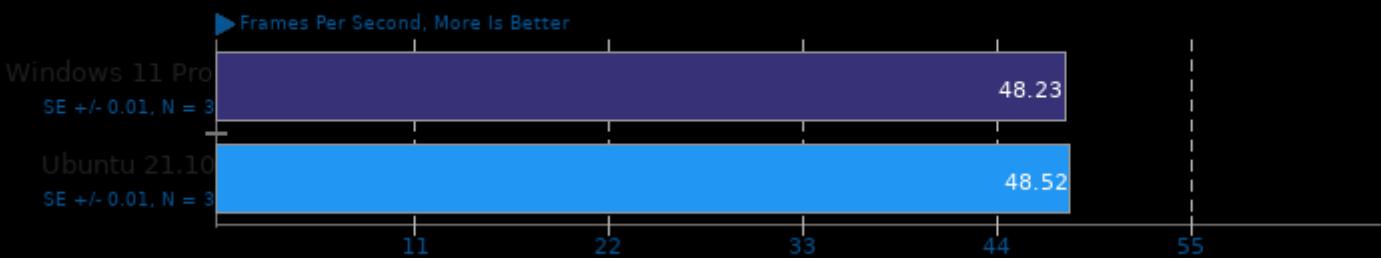
### Unigine Valley 1.0

Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL



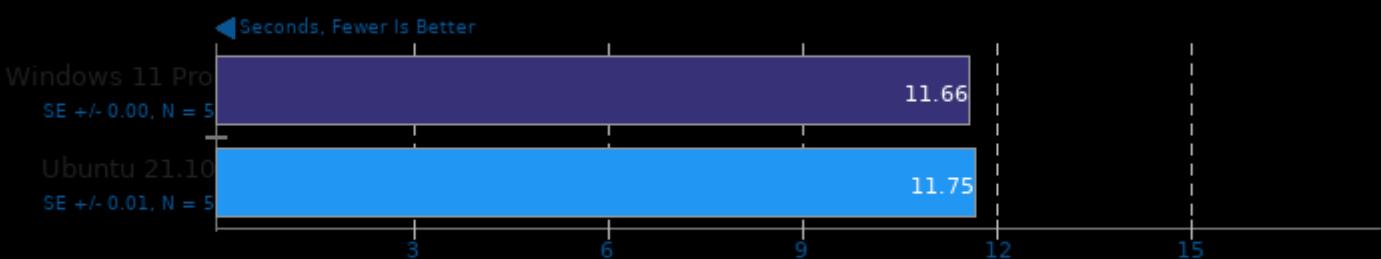
## Unigine Valley 1.0

Resolution: 3840 x 2160 - Mode: Fullscreen - Renderer: OpenGL



## WavPack Audio Encoding 5.3

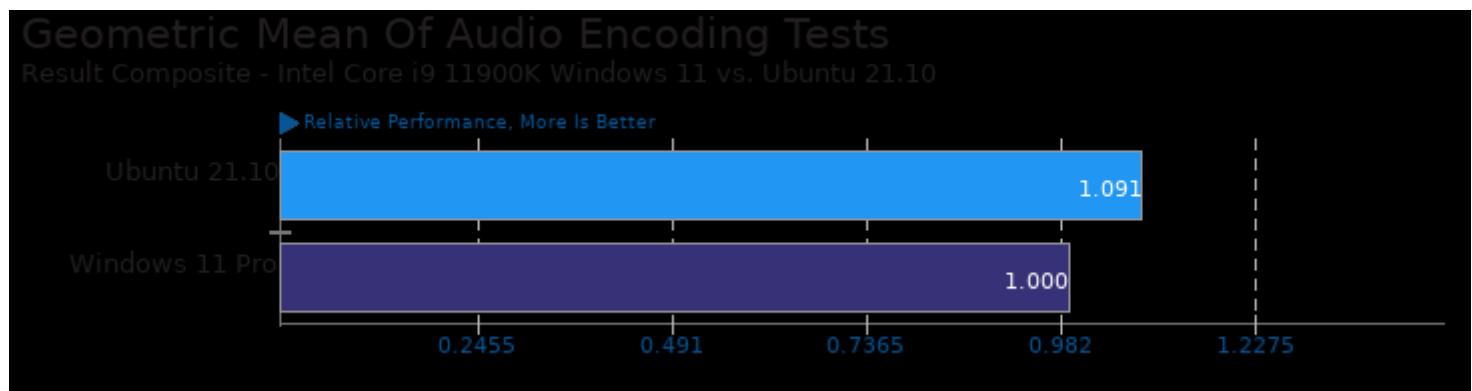
WAV To WavPack



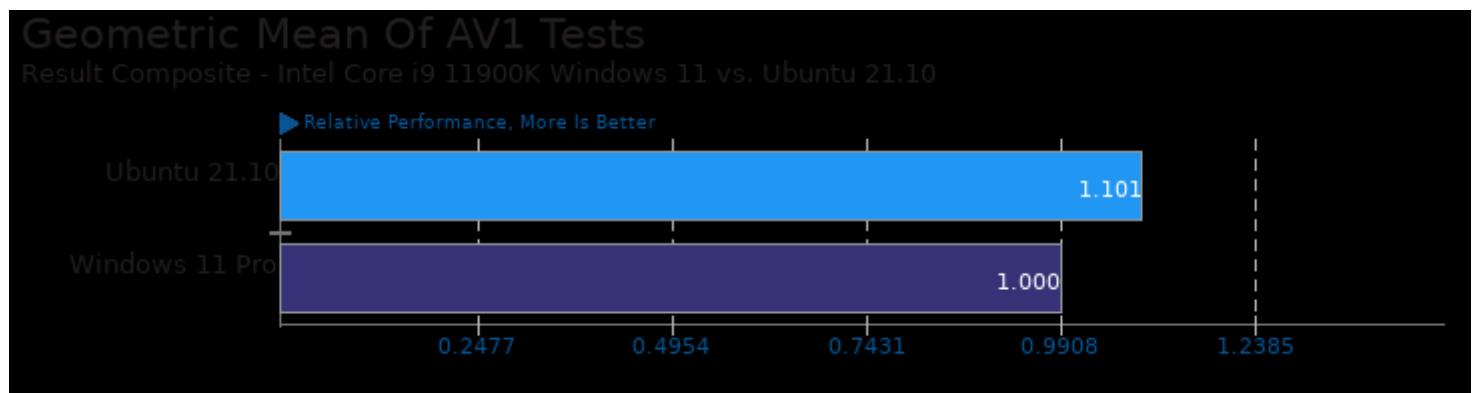
1. (CXX) g++ options: -rdynamic

## Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

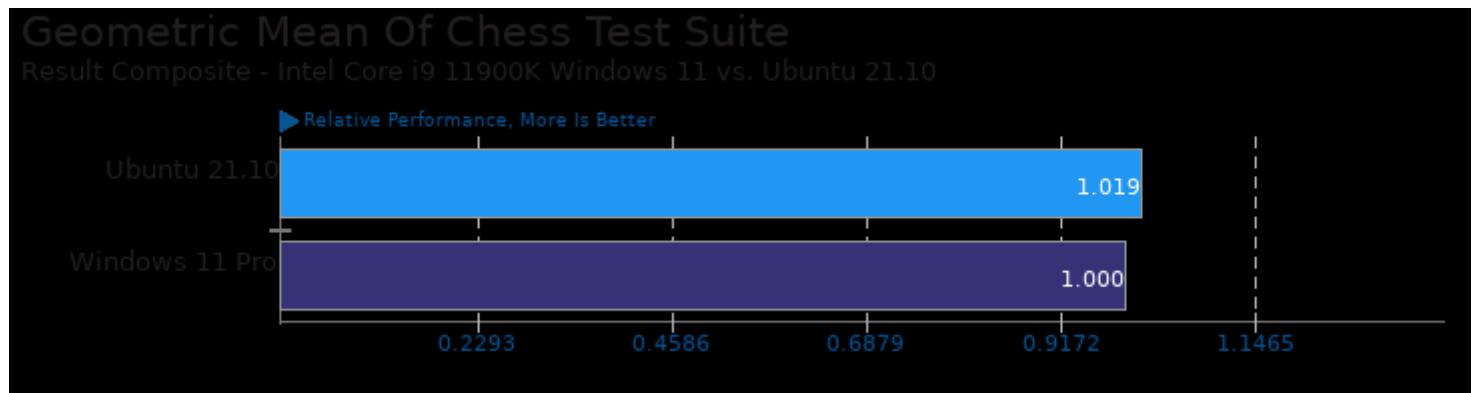
These geometric means are based upon test groupings / test suites for this result file.



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

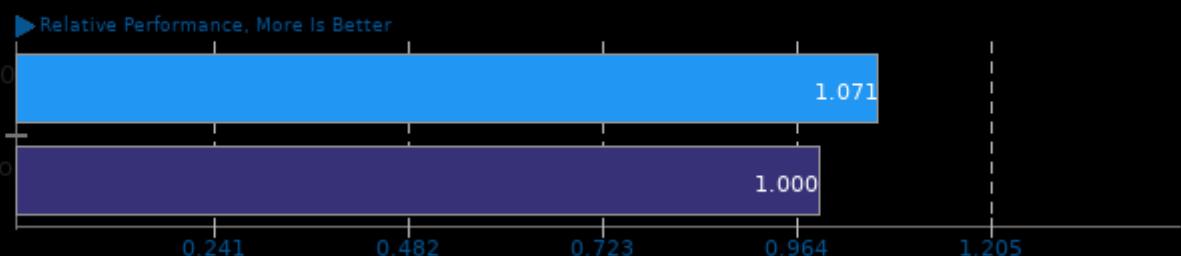


Geometric mean based upon tests: pts/tscp, pts/stockfish and pts/asmfish

## Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

### Geometric Mean Of C/C++ Compiler Tests

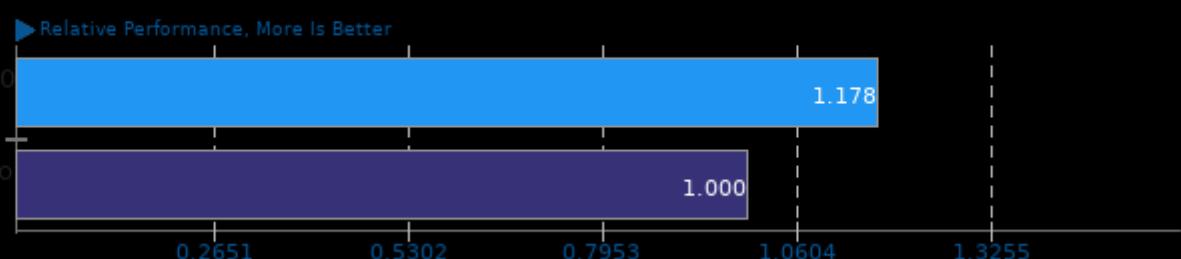
Result Composite - Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



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

### Geometric Mean Of CPU Massive Tests

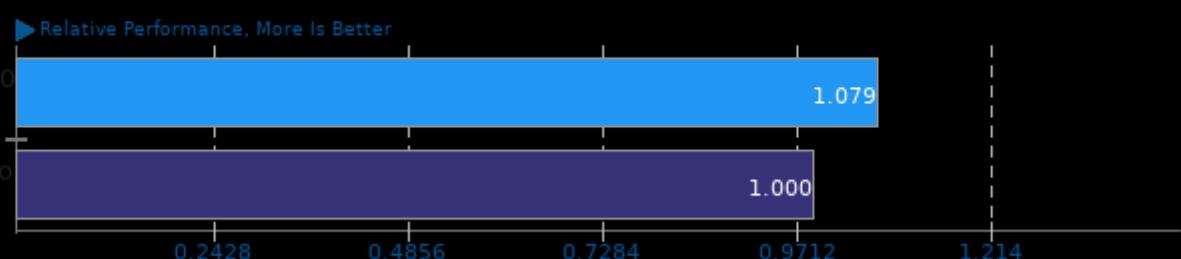
Result Composite - Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



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 Of Creator Workloads Tests

Result Composite - Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

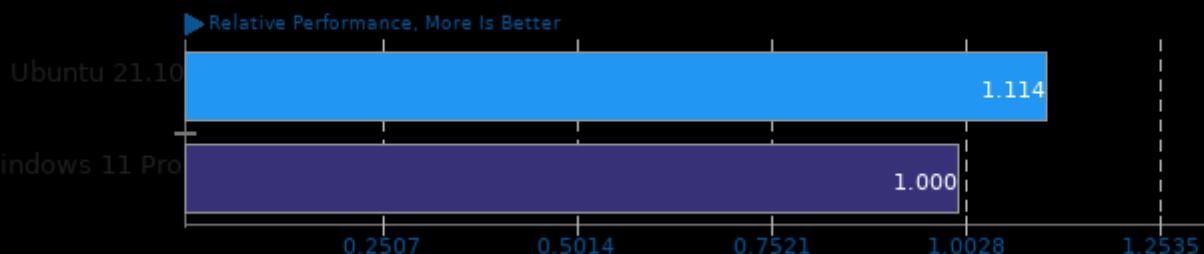


Geometric mean based upon tests: pts/blender, pts/appleseed, pts/luxcorerender, pts/v-ray, pts/indigobench, pts/dav1d, pts/svt-av1, pts/avifenc, pts/encode-flac, pts/encode-wavpack, pts/encode-opus, system/gimp and pts/oidn

## Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

### Geometric Mean Of Desktop Graphics Tests

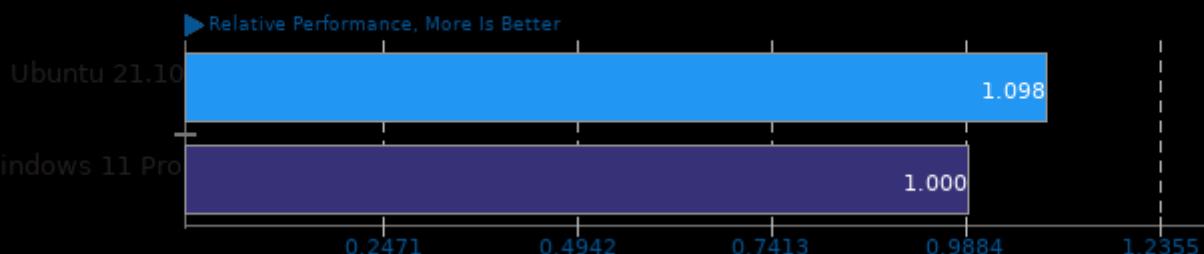
Result Composite - Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



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

### Geometric Mean Of Encoding Tests

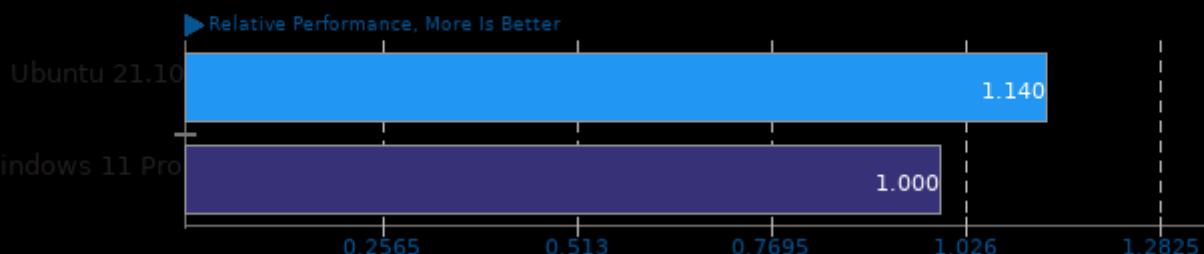
Result Composite - Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



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

### Geometric Mean Of Game Development Tests

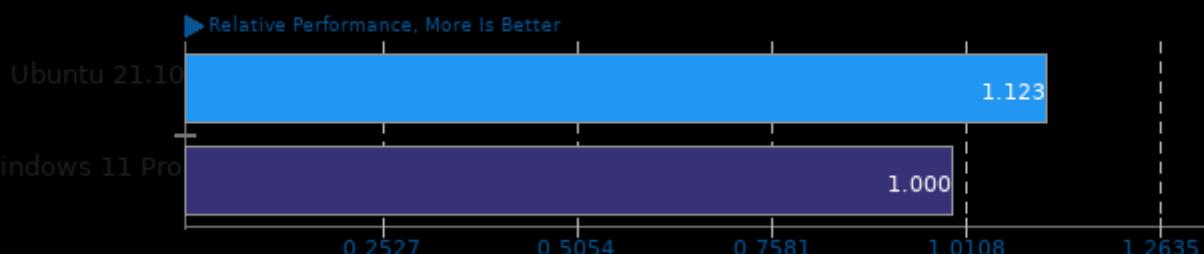
Result Composite - Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



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

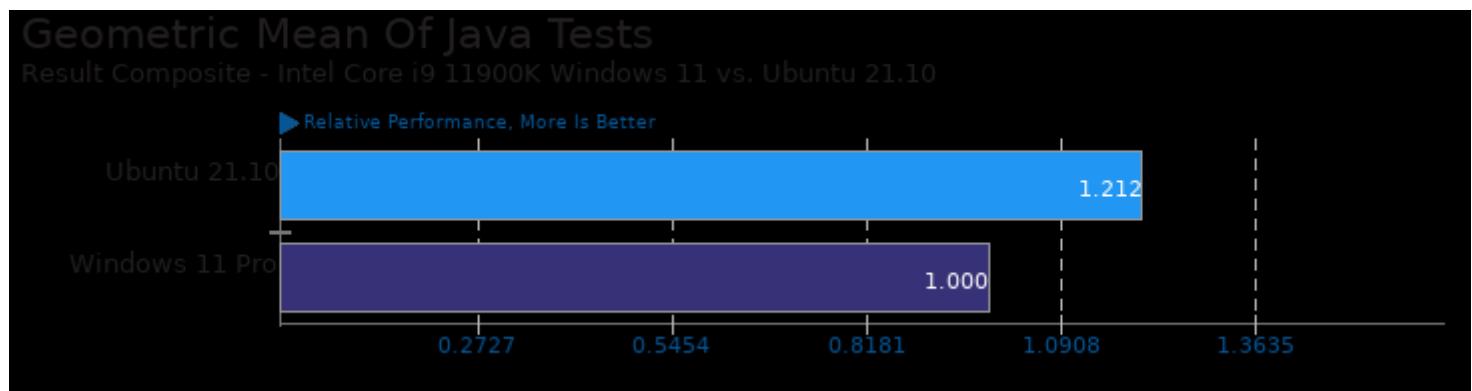
### Geometric Mean Of Imaging Tests

Result Composite - Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

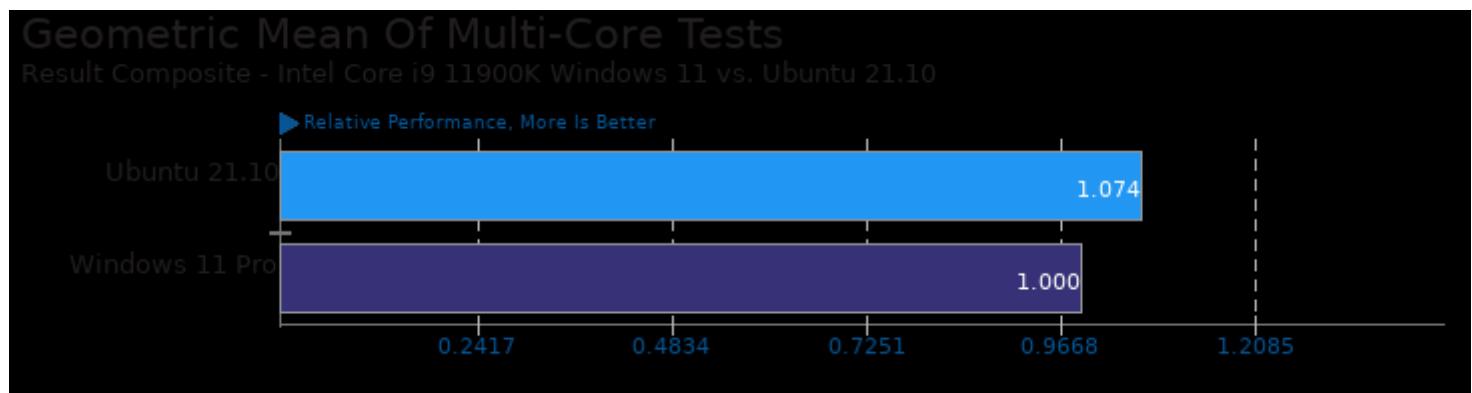


## Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

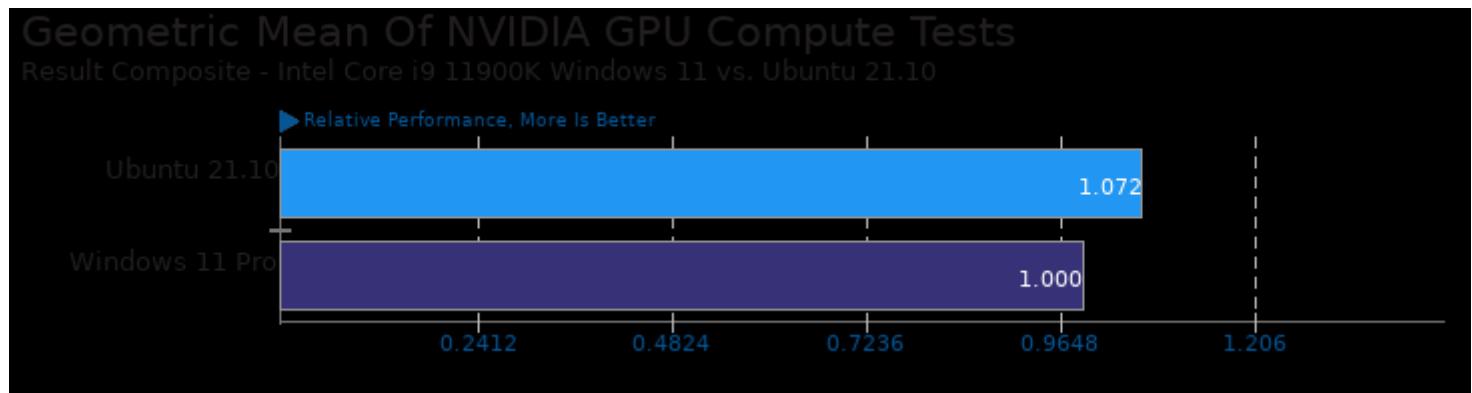
Geometric mean based upon tests: system/gimp and pts/avifenc



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

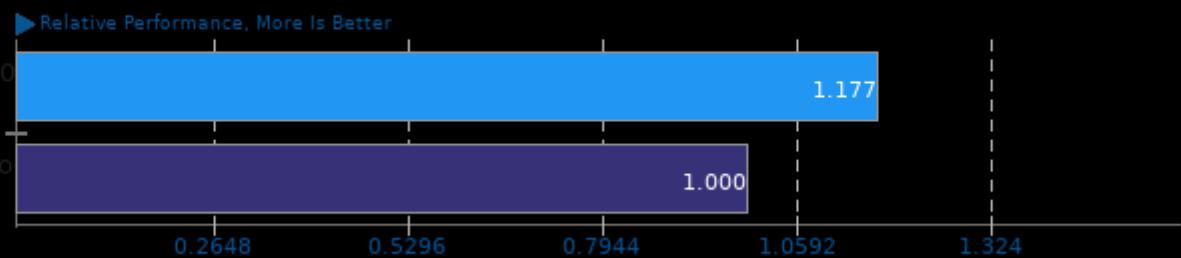


Geometric mean based upon tests: pts/luxcorerender, pts/indigobench, pts/v-ray and pts/blender

## Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

### Geometric Mean Of OpenGL Demos Test Suite

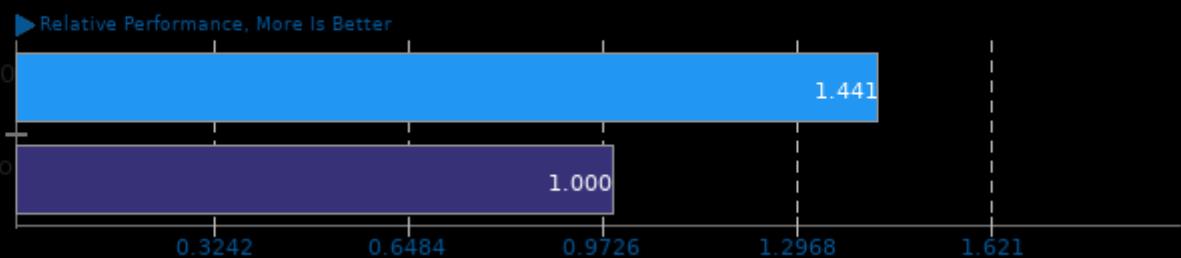
Result Composite - Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



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

### Geometric Mean Of Programmer / Developer System Benchmarks Tests

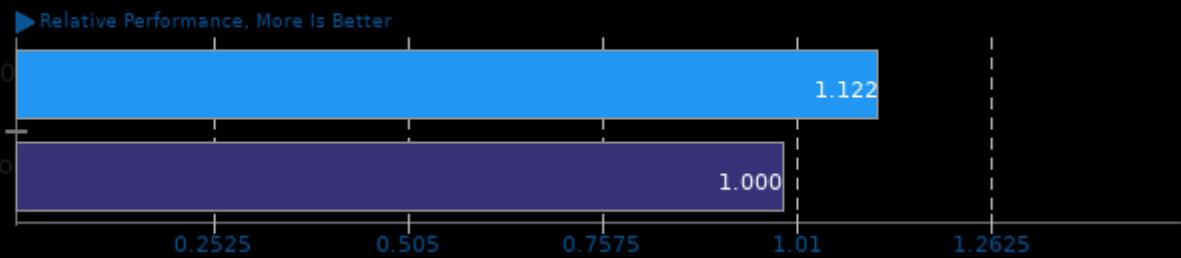
Result Composite - Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



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

### Geometric Mean Of Python Tests

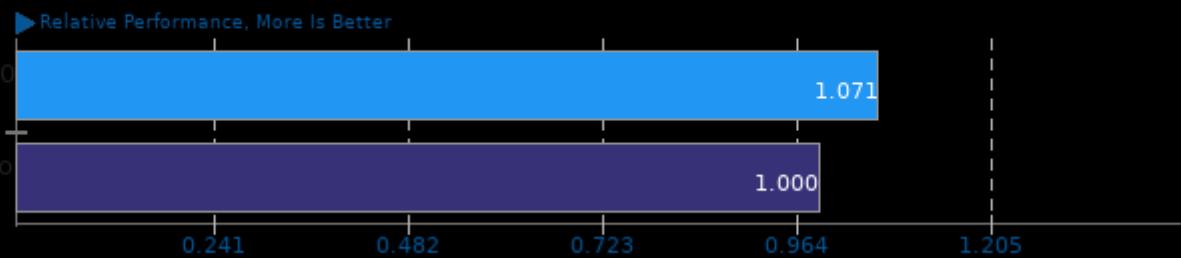
Result Composite - Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



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

### Geometric Mean Of Renderers Tests

Result Composite - Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

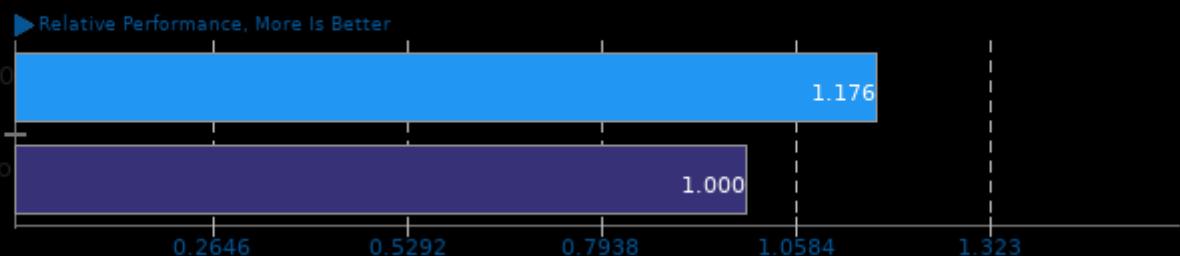


Geometric mean based upon tests: pts/blender, pts/appleseed, pts/luxcorerender, pts/v-ray and pts/indigobench

## Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10

### Geometric Mean Of Server CPU Tests

Result Composite - Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



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

### Geometric Mean Of Single-Threaded Tests

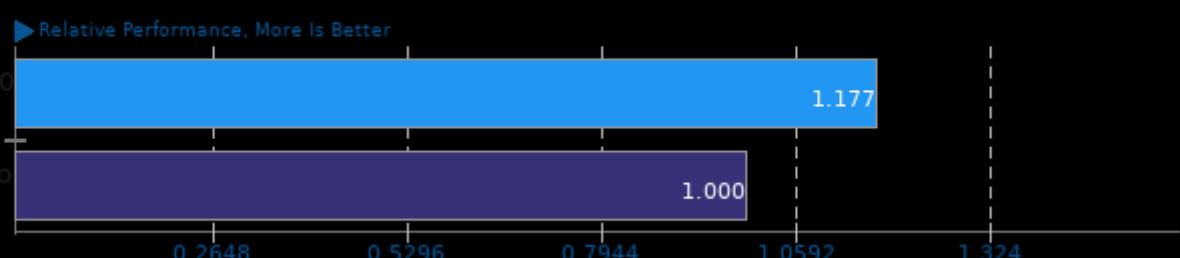
Result Composite - Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



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

### Geometric Mean Of Unigine Test Suite

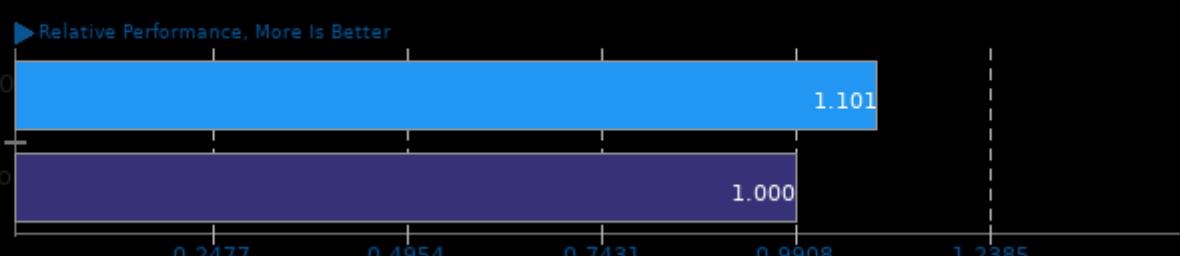
Result Composite - Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



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

### Geometric Mean Of Video Encoding Tests

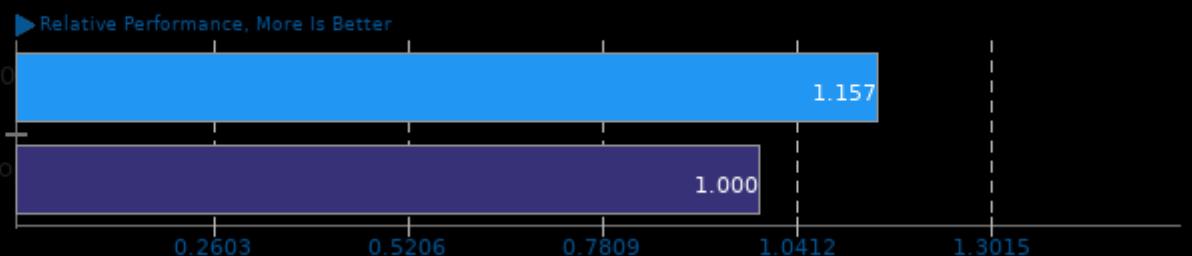
Result Composite - Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



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

**Geometric Mean Of Common Workstation Benchmarks Tests**

Result Composite - Intel Core i9 11900K Windows 11 vs. Ubuntu 21.10



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 Friday, 29 March 2024 09:28.*