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## Linux 5.13 Rocket Lake Intel Performance

Intel Core i9-11900K testing with a ASUS ROG MAXIMUS XIII HERO (0703 BIOS) and AMD Radeon VII 16GB on Ubuntu 20.10 via the Phoronix Test Suite.

### Automated Executive Summary

*Linux 5.12 had the most wins, coming in first place for 74% of the tests.*

*Based on the geometric mean of all complete results, the fastest (Linux 5.12) was 1.01x the speed of the slowest (Linux 5.13-rc1).*

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

*Stress-NG (Test: Context Switching) at 1.49x*

*Stress-NG (Test: NUMA) at 1.273x*

*Stress-NG (Test: MMAP) at 1.091x*

*Stress-NG (Test: CPU Cache) at 1.079x*

*Parboil (Test: OpenMP Stencil) at 1.056x*

*Selenium (Benchmark: WASM imageConvolute - Browser: Firefox) at 1.048x*

*QMCPACK (Input: simple-H2O) at 1.043x*

*Stress-NG (Test: SENDFILE) at 1.04x*

*Rodinia (Test: OpenMP Streamcluster) at 1.031x*

*Rodinia (Test: OpenMP CFD Solver) at 1.027x.*

## Test Systems:

### Linux 5.12

Processor: Intel Core i9-11900K @ 5.10GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (0703 BIOS), Chipset: Intel Device 43ef, Memory: 32GB, Disk: 500GB Western Digital WDS500G3X0C-00SJG0, Graphics: AMD Radeon VII 16GB (1801/1000MHz), Audio: Intel Device 43c8, Monitor: ASUS MG28U, Network: 2 x Intel + Intel Device 2725

OS: Ubuntu 20.10, Kernel: 5.12.0-051200-generic (x86\_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.2.6 (LLVM 11.0.0), Vulkan: 1.2.131, Compiler: GCC 10.2.0, 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-checking=release --enable-clocale-gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,objc++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc-auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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  
Disk Notes: NONE / errors=remount-ro,relatime,rw / Block Size: 4096  
Processor Notes: Scaling Governor: intel\_pstate powersave - CPU Microcode: 0x3c - Thermald 2.3  
Graphics Notes: GLAMOR  
Java Notes: OpenJDK Runtime Environment (build 11.0.10+9-Ubuntu-0ubuntu1.20.10)  
Python Notes: Python 3.8.6  
Security Notes: itlb\_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre\_v1: Mitigation of usercopy/swaps barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbs: Not affected + tsx\_async\_abort: Not affected

### Linux 5.13-rc1

Processor: Intel Core i9-11900K @ 5.10GHz (8 Cores / 16 Threads), Motherboard: ASUS ROG MAXIMUS XIII HERO (0703 BIOS), Chipset: Intel Device 43ef, Memory: 32GB, Disk: 500GB Western Digital WDS500G3X0C-00SJG0, Graphics: AMD Radeon VII 16GB (1801/1000MHz), Audio: Intel Device 43c8, Monitor: ASUS MG28U, Network: 2 x Intel + Intel Device 2725

OS: Ubuntu 20.10, Kernel: 5.13.0-051300rc1-generic (x86\_64) 20210509, Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.2.6 (LLVM 11.0.0), Vulkan: 1.2.131, Compiler: GCC 10.2.0, 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-checking=release --enable-clocale-gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,objc++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc-auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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  
Disk Notes: NONE / errors=remount-ro,relatime,rw / Block Size: 4096  
Processor Notes: Scaling Governor: intel\_pstate powersave - CPU Microcode: 0x3c - Thermald 2.3  
Graphics Notes: GLAMOR  
Java Notes: OpenJDK Runtime Environment (build 11.0.10+9-Ubuntu-0ubuntu1.20.10)  
Python Notes: Python 3.8.6  
Security Notes: itlb\_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl and

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

	Linux 5.12	Linux 5.13-rc1
<b>FS-Mark - 1.F.1.S (Files/s)</b>	<b>528.0</b>	<b>525.4</b>
Normalized	100%	99.51%
Standard Deviation	2.9%	2.4%
<b>FS-Mark - 5.F.1.S.4.T (Files/s)</b>	<b>547.5</b>	<b>472.9</b>
Normalized	100%	86.37%
Standard Deviation	3.9%	10.3%
<b>FS-Mark - 4.F.3.S.D.1.S (Files/s)</b>	<b>328.6</b>	<b>316.1</b>
Normalized	100%	96.2%
Standard Deviation	23.4%	14.2%
<b>Compile Bench - Initial Create (MB/s)</b>	<b>821.95</b>	<b>818.86</b>
Normalized	100%	99.62%
Standard Deviation	1.7%	0.9%
<b>RealSR-NCNN - 4x - Yes (sec)</b>	<b>40.230</b>	<b>40.334</b>
Normalized	100%	99.74%
Standard Deviation	0%	0.1%
<b>Waifu2x-NCNN Vulkan - 2x - 3 - Yes (sec)</b>	<b>5.859</b>	<b>5.854</b>
Normalized	99.91%	100%
Standard Deviation	0.1%	0.3%
<b>Tesseract - 3840 x 2160 (FPS)</b>	<b>490.2731</b>	<b>495.6977</b>
Normalized	98.91%	100%
Standard Deviation	2.1%	1.9%
<b>Xonotic - 3840 x 2160 - Ultra (FPS)</b>	<b>428.0499102</b>	<b>425.8201452</b>
Normalized	100%	99.48%
Standard Deviation	0.4%	0.4%
<b>Xonotic - 3840 x 2160 - Ultimate (FPS)</b>	<b>341.3121519</b>	<b>339.1733898</b>
Normalized	100%	99.37%
Standard Deviation	0%	0.5%
<b>ParaView - Many Spheres - 3840 x 2160 (Frames / Sec)</b>	<b>43.35</b>	<b>43.24</b>
Normalized	100%	99.75%
Standard Deviation	0%	0%
<b>ParaView - Many Spheres - 3840 x 2160 (MiPolys / Sec)</b>	<b>4346</b>	<b>4335</b>
Normalized	100%	99.76%
Standard Deviation	0%	0%
<b>ParaView - Wavelet Volume - 3840 x 2160 (Frames / Sec)</b>	<b>80.51</b>	<b>79.49</b>
Normalized	100%	98.73%
Standard Deviation	2.1%	0.3%
<b>ParaView - Wavelet Volume - 3840 x 2160 (MiVoxels / Sec)</b>	<b>1288</b>	<b>1272</b>
Normalized	100%	98.74%
Standard Deviation	2.1%	0.3%
<b>ParaView - Wavelet Contour - 3840 x 2160 (Frames / Sec)</b>	<b>273.72</b>	<b>272.85</b>
Normalized	100%	99.68%
Standard Deviation	0%	0.3%

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ParaView - Wavelet Contour - 3840 x 2160 (MiPolys / Sec)	2852	2843
Normalized	100%	99.68%
Standard Deviation	0%	0.3%
Parboil - OpenMP LBM (sec)	117.356031	118.523392
Normalized	100%	99.02%
Standard Deviation	0.1%	0.2%
Parboil - OpenMP CUTCP (sec)	3.424596	3.434095
Normalized	100%	99.72%
Standard Deviation	0.5%	1.1%
Parboil - OpenMP Stencil (sec)	14.337413	15.133391
Normalized	100%	94.74%
Standard Deviation	0.5%	1%
Parboil - O.M.G (sec)	44.817690	44.622145
Normalized	99.56%	100%
Standard Deviation	5.2%	4.8%
Rodinia - OpenMP LavaMD (sec)	209.054	211.980
Normalized	100%	98.62%
Standard Deviation	1%	1.8%
Rodinia - OpenMP HotSpot3D (sec)	69.598	70.829
Normalized	100%	98.26%
Standard Deviation	0.1%	1.5%
Rodinia - OpenMP Leukocyte (sec)	104.199	104.142
Normalized	99.95%	100%
Standard Deviation	0.5%	0.9%
Rodinia - OpenMP CFD Solver (sec)	21.332	21.898
Normalized	100%	97.42%
Standard Deviation	0.7%	0.6%
Rodinia - O.S (sec)	17.005	17.526
Normalized	100%	97.03%
Standard Deviation	0.1%	0.2%
NAMD - ATPase Simulation - 327,506 Atoms (days/ns)	1.30071	1.30108
Normalized	100%	99.97%
Standard Deviation	0.1%	0.7%
QMCPACK - simple-H2O (Execution Time - sec)	21.655	22.586
Normalized	100%	95.88%
Standard Deviation	0.2%	5.3%
Xcompact3d Incompact3d - i.i.1.C.P.D (sec)	118.221225	118.966621
Normalized	100%	99.37%
Standard Deviation	0.1%	0.2%
libgav1 - Summer Nature 4K (FPS)	81.51	81.01
Normalized	100%	99.39%
Standard Deviation	0.2%	0.1%
DaCapo Benchmark - H2 (msec)	2575	2663
Normalized	100%	96.7%
Standard Deviation	6.9%	9.4%
DaCapo Benchmark - Jython (msec)	3139	3170
Normalized	100%	99.02%
Standard Deviation	2%	0.6%
DaCapo Benchmark - Tradesoap (msec)	3195	3192
Normalized	99.91%	100%
Standard Deviation	1.6%	1.7%
DaCapo Benchmark - Tradebeans (msec)	2133	2137
Normalized	100%	99.81%
Standard Deviation	1.7%	4.2%

Renaissance - Scala Dotty (ms)	<b>1229</b>	<b>1236</b>
Normalized	100%	99.42%
Standard Deviation	0.5%	0.4%
Renaissance - Rand Forest (ms)	<b>1231</b>	<b>1233</b>
Normalized	100%	99.78%
Standard Deviation	1.6%	1.2%
Renaissance - Apache Spark ALS (ms)	<b>1457</b>	<b>1474</b>
Normalized	100%	98.85%
Standard Deviation	2.5%	2.4%
Renaissance - Apache Spark Bayes (ms)	<b>149.000</b>	<b>154.887</b>
Normalized	100%	96.2%
Standard Deviation	5.6%	6.5%
Renaissance - Savina Reactors.IO (ms)	<b>11968</b>	<b>10896</b>
Normalized	91.05%	100%
Standard Deviation	2.5%	6.6%
Renaissance - A.S.P (ms)	<b>3168</b>	<b>3141</b>
Normalized	99.15%	100%
Standard Deviation	4.3%	4.1%
Renaissance - T.H.R (ms)	<b>1504</b>	<b>1517</b>
Normalized	100%	99.17%
Standard Deviation	1.3%	1.5%
Renaissance - I.M.D.S (ms)	<b>2275</b>	<b>2305</b>
Normalized	100%	98.7%
Standard Deviation	1.4%	1.3%
Renaissance - A.U.C.T (ms)	<b>8613</b>	<b>8512</b>
Normalized	98.83%	100%
Standard Deviation	4.6%	1.1%
Renaissance - G.A.U.J.F (ms)	<b>1179</b>	<b>1142</b>
Normalized	96.91%	100%
Standard Deviation	16.4%	4%
Embree - Pathtracer - Crown (FPS)	<b>12.4797</b>	<b>12.4001</b>
Normalized	100%	99.36%
Standard Deviation	0.5%	0.4%
Embree - Pathtracer ISPC - Crown (FPS)	<b>14.6221</b>	<b>14.5769</b>
Normalized	100%	99.69%
Standard Deviation	0.3%	0.4%
Embree - Pathtracer - Asian Dragon (FPS)	<b>13.7215</b>	<b>13.8122</b>
Normalized	99.34%	100%
Standard Deviation	0.9%	1.3%
Embree - Pathtracer - Asian Dragon Obj (FPS)	<b>12.6503</b>	<b>12.5801</b>
Normalized	100%	99.45%
Standard Deviation	0.8%	0.3%
Embree - Pathtracer ISPC - Asian Dragon (FPS)	<b>16.3329</b>	<b>16.1249</b>
Normalized	100%	98.73%
Standard Deviation	1.4%	0.1%
Embree - Pathtracer ISPC - Asian Dragon Obj (FPS)	<b>14.2957</b>	<b>14.2343</b>
Normalized	100%	99.57%
Standard Deviation	0.6%	0.2%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	<b>18.640</b>	<b>18.527</b>
Normalized	100%	99.39%
Standard Deviation	0.5%	0.3%
SVT-HEVC - 7 - Bosphorus 1080p (FPS)	<b>135.94</b>	<b>135.19</b>
Normalized	100%	99.45%
Standard Deviation	1.1%	1%
SVT-HEVC - 10 - Bosphorus 1080p (FPS)	<b>269.06</b>	<b>268.46</b>

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Normalized	100%	99.78%
Standard Deviation	0.4%	0.1%
<b>Stockfish - Total Time (Nodes/s)</b>	<b>28671461</b>	<b>28644083</b>
Normalized	100%	99.9%
Standard Deviation	2.4%	0.9%
<b>PJSIP - INVITE (Responses/sec)</b>	<b>5096</b>	<b>5026</b>
Normalized	100%	98.63%
Standard Deviation		0.1%
<b>PJSIP - OPTIONS, Stateless (Responses/sec)</b>	<b>52400</b>	<b>53160</b>
Normalized	98.57%	100%
Standard Deviation	0.4%	1%
<b>Timed Linux Kernel Compilation - Time To Compile</b>	<b>81.234</b>	<b>81.959</b>
Normalized	100%	99.12%
Standard Deviation	2%	1.8%
<b>Timed LLVM Compilation - Ninja (sec)</b>	<b>686.374</b>	<b>690.824</b>
Normalized	100%	99.36%
Standard Deviation	0%	0%
<b>Timed Mesa Compilation - Time To Compile (sec)</b>	<b>49.121</b>	<b>49.444</b>
Normalized	100%	99.35%
Standard Deviation	0.1%	0.3%
<b>Timed Node.js Compilation - Time To Compile (sec)</b>	<b>458.153</b>	<b>460.876</b>
Normalized	100%	99.41%
Standard Deviation	0.1%	0.1%
<b>Timed Wasmer Compilation - Time To Compile (sec)</b>	<b>83.588</b>	<b>84.669</b>
Normalized	100%	98.72%
Standard Deviation	1.4%	1%
<b>Hackbench - 16 - Thread (sec)</b>	<b>37.105</b>	<b>37.467</b>
Normalized	100%	99.03%
Standard Deviation	0.2%	0.2%
<b>Hackbench - 16 - Process (sec)</b>	<b>36.202</b>	<b>36.582</b>
Normalized	100%	98.96%
Standard Deviation	0.2%	0.1%
<b>Hackbench - 32 - Process (sec)</b>	<b>74.532</b>	<b>75.196</b>
Normalized	100%	99.12%
Standard Deviation	0.2%	0.2%
<b>SecureMark - SecureMark-TLS (marks)</b>	<b>318050</b>	<b>317898</b>
Normalized	100%	99.95%
Standard Deviation	0%	0%
<b>Cryptsetup - PBKDF2-sha512 (Iterations/sec)</b>	<b>2079134</b>	<b>2073658</b>
Normalized	100%	99.74%
Standard Deviation	0.1%	0.2%
<b>Cryptsetup - PBKDF2-whirlpool (Iterations/sec)</b>	<b>851577</b>	<b>851118</b>
Normalized	100%	99.95%
Standard Deviation	0.1%	0.2%
<b>Cryptsetup - A.X.2.E (MiB/s)</b>	<b>5434</b>	<b>5388</b>
Normalized	100%	99.15%
Standard Deviation	0.3%	0.2%
<b>Cryptsetup - A.X.2.D (MiB/s)</b>	<b>5437</b>	<b>5393</b>
Normalized	100%	99.19%
Standard Deviation	0.1%	0.1%
<b>Cryptsetup - S.X.2.E (MiB/s)</b>	<b>774.6</b>	<b>773.0</b>
Normalized	100%	99.79%
Standard Deviation	0.3%	0.3%
<b>Cryptsetup - S.X.2.D (MiB/s)</b>	<b>730.6</b>	<b>729.8</b>
Normalized	100%	99.89%

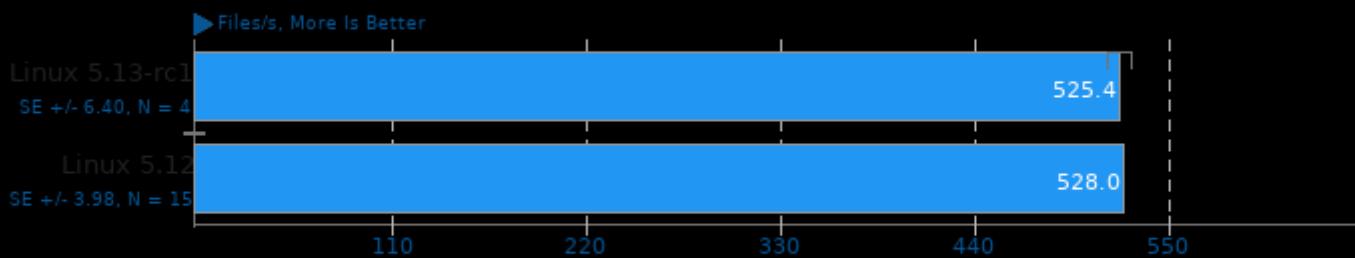
	Standard Deviation	0%	0.1%
<b>Cryptsetup - T.X.2.E (MiB/s)</b>	<b>487.1</b>	<b>488.9</b>	
Normalized	99.63%	100%	
Standard Deviation	0.3%	0.3%	
<b>Cryptsetup - T.X.2.D (MiB/s)</b>	<b>488.3</b>	<b>488.0</b>	
Normalized	100%	99.94%	
Standard Deviation	0.1%	0%	
<b>Cryptsetup - A.X.5.E (MiB/s)</b>	<b>4828</b>	<b>4802</b>	
Normalized	100%	99.46%	
Standard Deviation	0.2%	0.2%	
<b>Cryptsetup - A.X.5.D (MiB/s)</b>	<b>4808</b>	<b>4782</b>	
Normalized	100%	99.47%	
Standard Deviation	0.1%	0.2%	
<b>Cryptsetup - S.X.5.E (MiB/s)</b>	<b>775.9</b>	<b>775.0</b>	
Normalized	100%	99.88%	
Standard Deviation	0%	0.1%	
<b>Cryptsetup - S.X.5.D (MiB/s)</b>	<b>730.7</b>	<b>729.4</b>	
Normalized	100%	99.82%	
Standard Deviation	0.1%	0.1%	
<b>Cryptsetup - T.X.5.D (MiB/s)</b>	<b>488.3</b>	<b>487.8</b>	
Normalized	100%	99.9%	
Standard Deviation	0.1%	0%	
<b>Cryptsetup - T.X.5.E (MiB/s)</b>	<b>488.1</b>	<b>489.6</b>	
Normalized	99.69%	100%	
Standard Deviation		0.1%	
<b>KeyDB (Ops/sec)</b>	<b>993090</b>	<b>994001</b>	
Normalized	99.91%	100%	
Standard Deviation	0.9%	0.3%	
<b>GROMACS - water_GMX50_bare (Ns/Day)</b>	<b>1.012</b>	<b>1.012</b>	
Standard Deviation	0.7%	0.4%	
<b>SQLite Speedtest - Timed Time - Size 1,000 (sec)</b>	<b>45.882</b>	<b>46.144</b>	
Normalized	100%	99.43%	
Standard Deviation	0.1%	0.1%	
<b>Google Draco - Lion (ms)</b>	<b>4097</b>	<b>4158</b>	
Normalized	100%	98.53%	
Standard Deviation	0.2%	0.4%	
<b>Google Draco - Church Facade (ms)</b>	<b>6138</b>	<b>6296</b>	
Normalized	100%	97.49%	
Standard Deviation	0.2%	0.1%	
<b>Stress-NG - MMAP (Bogo Ops/s)</b>	<b>239.10</b>	<b>260.95</b>	
Normalized	91.63%	100%	
Standard Deviation	2.2%	0.3%	
<b>Stress-NG - NUMA (Bogo Ops/s)</b>	<b>333.69</b>	<b>262.23</b>	
Normalized	100%	78.58%	
Standard Deviation	0.4%	0.7%	
<b>Stress-NG - MEMFD (Bogo Ops/s)</b>	<b>927.34</b>	<b>928.92</b>	
Normalized	99.83%	100%	
Standard Deviation	0.3%	0.1%	
<b>Stress-NG - Atomic (Bogo Ops/s)</b>	<b>360169</b>	<b>359621</b>	
Normalized	100%	99.85%	
Standard Deviation	2.8%	2.5%	
<b>Stress-NG - Crypto (Bogo Ops/s)</b>	<b>2200</b>	<b>2197</b>	
Normalized	100%	99.88%	
Standard Deviation	0%	0.1%	
<b>Stress-NG - Malloc (Bogo Ops/s)</b>	<b>65241387</b>	<b>64585585</b>	

	Normalized	100%	98.99%
	Standard Deviation	0.2%	0.3%
<b>Stress-NG - RdRand (Bogo Ops/s)</b>	<b>78124</b>	<b>78162</b>	
	Normalized	99.95%	100%
	Standard Deviation	0%	0%
<b>Stress-NG - Forking (Bogo Ops/s)</b>	<b>90139</b>	<b>89532</b>	
	Normalized	100%	99.33%
	Standard Deviation	0.3%	0.6%
<b>Stress-NG - SENDFILE (Bogo Ops/s)</b>	<b>218932</b>	<b>227760</b>	
	Normalized	96.12%	100%
	Standard Deviation	0.1%	0.1%
<b>Stress-NG - CPU Cache (Bogo Ops/s)</b>	<b>20.79</b>	<b>19.27</b>	
	Normalized	100%	92.69%
	Standard Deviation	0.3%	4.4%
<b>Stress-NG - CPU Stress (Bogo Ops/s)</b>	<b>5138</b>	<b>5265</b>	
	Normalized	97.58%	100%
	Standard Deviation	0.4%	0.5%
<b>Stress-NG - Semaphores (Bogo Ops/s)</b>	<b>1166457</b>	<b>1162424</b>	
	Normalized	100%	99.65%
	Standard Deviation	0.1%	0%
<b>Stress-NG - Matrix Math (Bogo Ops/s)</b>	<b>56921</b>	<b>57267</b>	
	Normalized	99.4%	100%
	Standard Deviation	0.5%	0.2%
<b>Stress-NG - Vector Math (Bogo Ops/s)</b>	<b>62087</b>	<b>62179</b>	
	Normalized	99.85%	100%
	Standard Deviation	0.3%	0.2%
<b>Stress-NG - Memory Copying (Bogo Ops/s)</b>	<b>1879</b>	<b>1866</b>	
	Normalized	100%	99.33%
	Standard Deviation	0.1%	0%
<b>Stress-NG - Socket Activity (Bogo Ops/s)</b>	<b>11103</b>	<b>10951</b>	
	Normalized	100%	98.63%
	Standard Deviation	0.6%	0.1%
<b>Stress-NG - Context Switching (Bogo Ops/s)</b>	<b>5180142</b>	<b>3477008</b>	
	Normalized	100%	67.12%
	Standard Deviation	0.5%	2.1%
<b>Stress-NG - G.C.S.F (Bogo Ops/s)</b>	<b>1668509</b>	<b>1657919</b>	
	Normalized	100%	99.37%
	Standard Deviation	0.9%	1.3%
<b>Stress-NG - G.Q.D.S (Bogo Ops/s)</b>	<b>185.55</b>	<b>184.30</b>	
	Normalized	100%	99.33%
	Standard Deviation	0.3%	0.5%
<b>Stress-NG - S.V.M.P (Bogo Ops/s)</b>	<b>14214394</b>	<b>14465630</b>	
	Normalized	98.26%	100%
	Standard Deviation	0.2%	0.4%
<b>ctx_clock - C.S.T (Clocks)</b>	<b>161</b>	<b>158</b>	
	Normalized	98.14%	100%
	Standard Deviation	0.7%	
<b>Selenium - Kraken - Firefox (ms)</b>	<b>843.6</b>	<b>846.0</b>	
	Normalized	100%	99.72%
	Standard Deviation	0.4%	0.1%
<b>Selenium - Jetstream 2 - Firefox (Score)</b>	<b>97.358</b>	<b>98.218</b>	
	Normalized	99.12%	100%
	Standard Deviation	1.9%	1.3%
<b>Selenium - Speedometer - Firefox (Runs/min)</b>	<b>135.8</b>	<b>136</b>	
	Normalized	99.85%	100%

	Standard Deviation	0.6%
<b>Selenium - Kraken - Google Chrome (ms)</b>	<b>605.8</b>	<b>604.1</b>
Normalized	99.72%	100%
Standard Deviation	0.6%	0.2%
<b>Selenium - PSPDFKit WASM - Firefox (Score)</b>	<b>2776</b>	<b>2770</b>
Normalized	99.78%	100%
Standard Deviation	0.1%	0.1%
<b>Selenium - Jetstream 2 - Google Chrome (Score)</b>	<b>185.335</b>	<b>184.680</b>
Normalized	100%	99.65%
Standard Deviation	0.3%	0.5%
<b>Selenium - Speedometer - Google Chrome (Runs/min)</b>	<b>197</b>	<b>196</b>
Normalized	100%	99.49%
Standard Deviation	0.3%	
<b>Selenium - PSPDFKit WASM - Google Chrome (Score)</b>	<b>2939</b>	<b>2960</b>
Normalized	100%	99.29%
Standard Deviation	0.2%	0.5%
<b>Selenium - W.i - Firefox (ms)</b>	<b>26.2</b>	<b>25</b>
Normalized	95.42%	100%
Standard Deviation	1.3%	
<b>Selenium - W.c - Firefox (ms)</b>	<b>331.4</b>	<b>332.7</b>
Normalized	100%	99.61%
Standard Deviation	0%	0.5%
<b>Selenium - W.i - Google Chrome (ms)</b>	<b>26.4541</b>	<b>26.6302</b>
Normalized	100%	99.34%
Standard Deviation	2.3%	2.4%
<b>Selenium - W.c - Google Chrome (ms)</b>	<b>280.3130</b>	<b>280.253</b>
Normalized	99.98%	100%
Standard Deviation	0.1%	0.1%
<b>InfluxDB - 4 - 10000 - 2,5000,1 - 10000 (val/sec)</b>	<b>2113045</b>	<b>2117142</b>
Normalized	99.81%	100%
Standard Deviation	0.2%	0.4%
<b>InfluxDB - 64 - 10000 - 2,5000,1 - 10000 (val/sec)</b>	<b>2128188</b>	<b>2118717</b>
Normalized	100%	99.55%
Standard Deviation	0.8%	0.5%

## FS-Mark 3.3

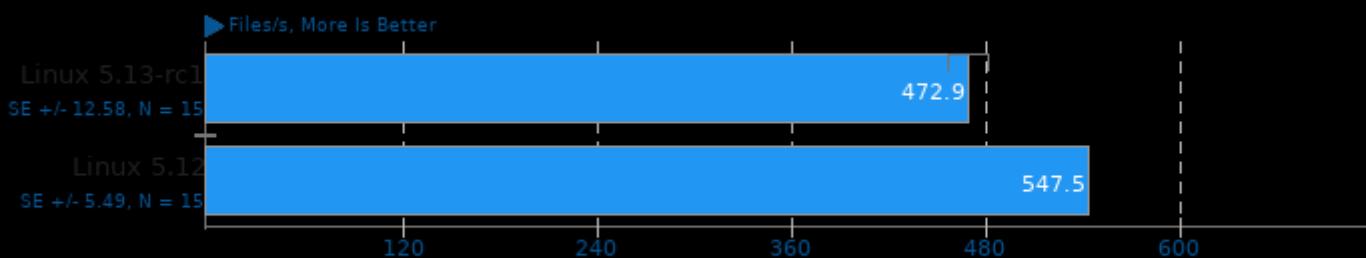
Test: 1000 Files, 1MB Size



1. (CC) gcc options: -static

## FS-Mark 3.3

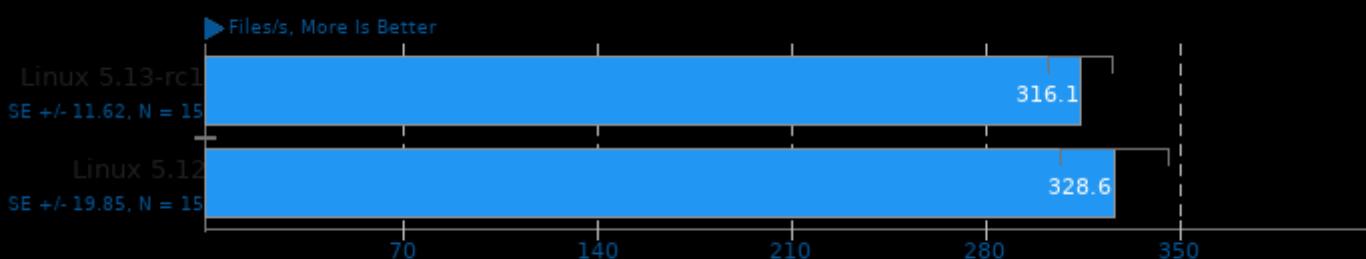
Test: 5000 Files, 1MB Size, 4 Threads



1. (CC) gcc options: -static

## FS-Mark 3.3

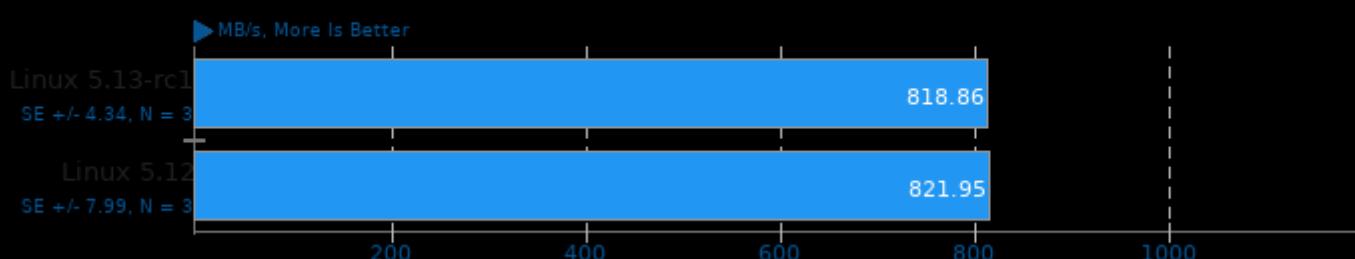
Test: 4000 Files, 32 Sub Dirs, 1MB Size



1. (CC) gcc options: -static

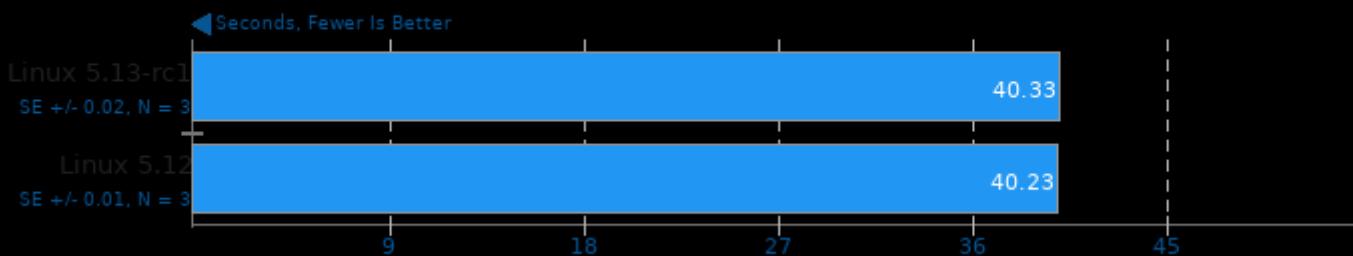
## Compile Bench 0.6

Test: Initial Create



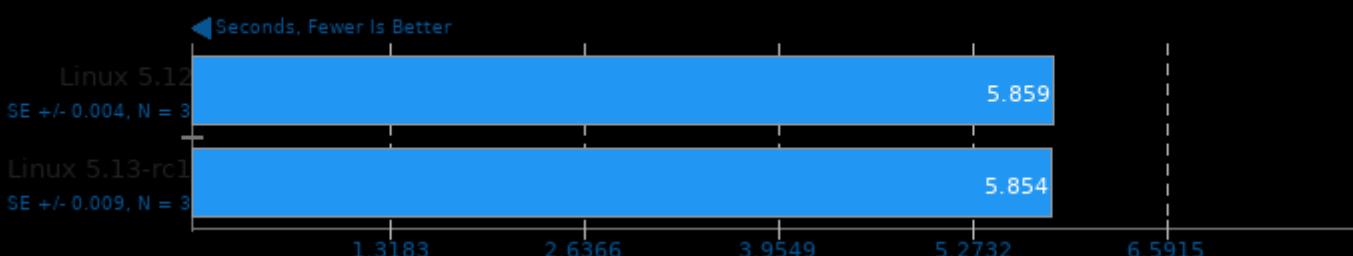
## RealSR-NCNN 20200818

Scale: 4x - TAA: Yes



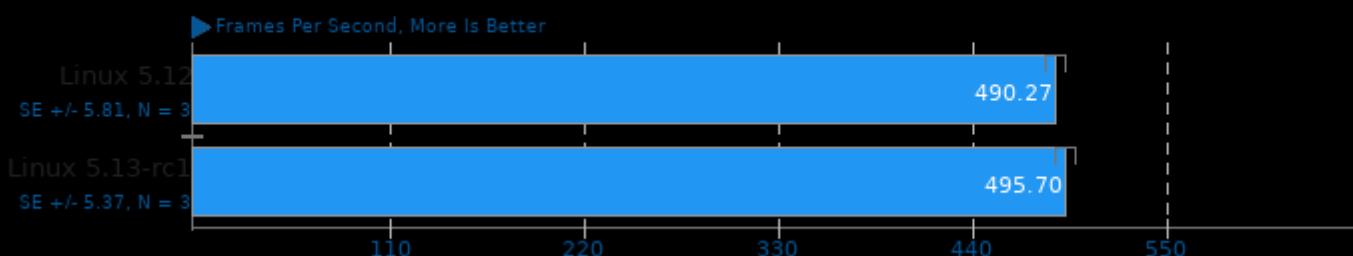
## Waifu2x-NCNN Vulkan 20200818

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



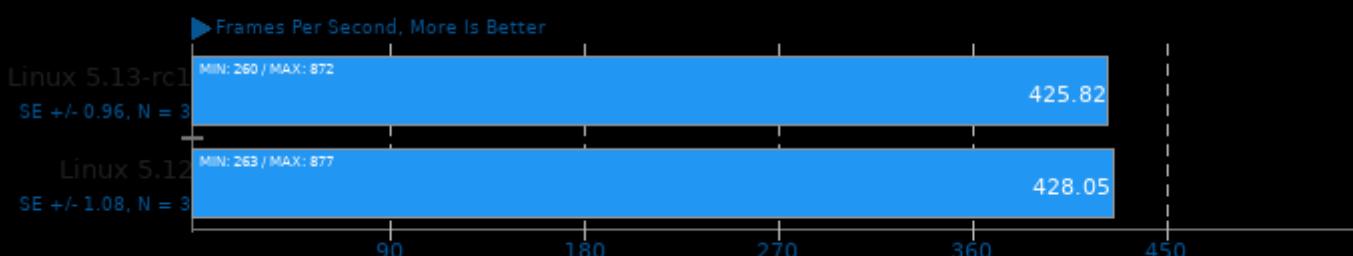
## Tesseract 2014-05-12

Resolution: 3840 x 2160



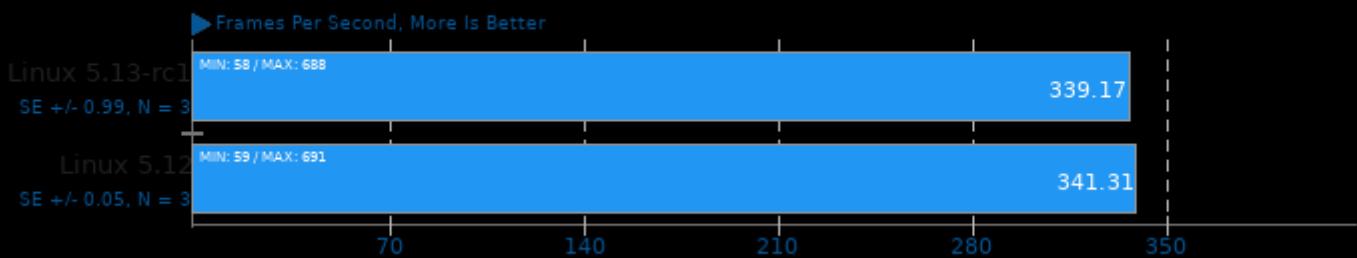
## Xonotic 0.8.2

Resolution: 3840 x 2160 - Effects Quality: Ultra



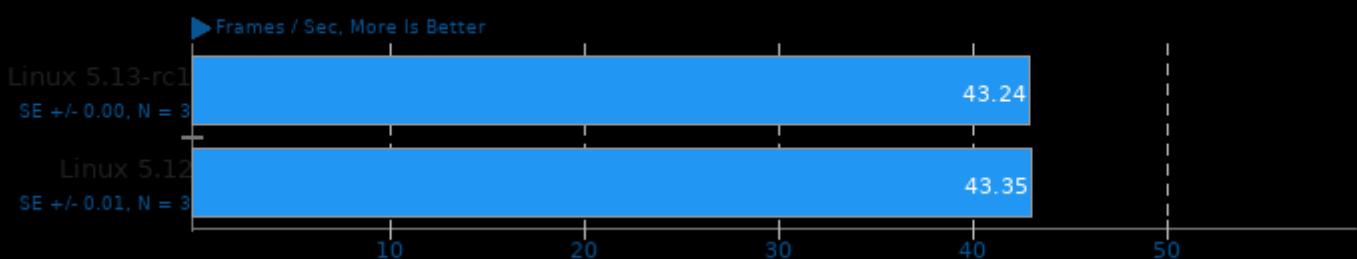
## Xonotic 0.8.2

Resolution: 3840 x 2160 - Effects Quality: Ultimate



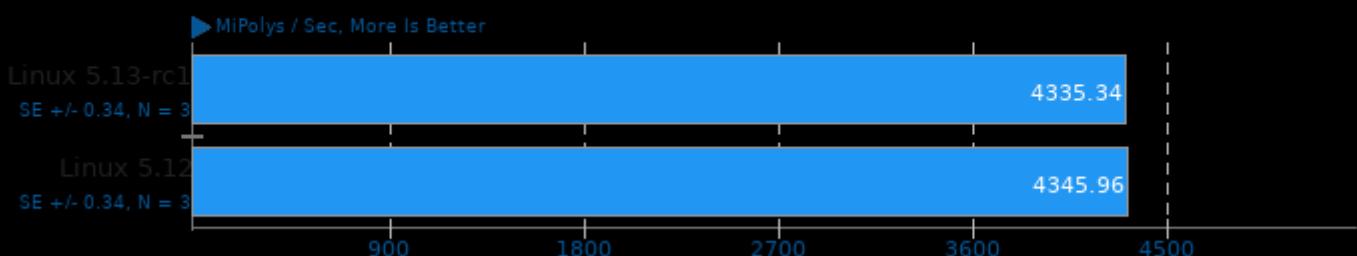
## ParaView 5.9

Test: Many Spheres - Resolution: 3840 x 2160



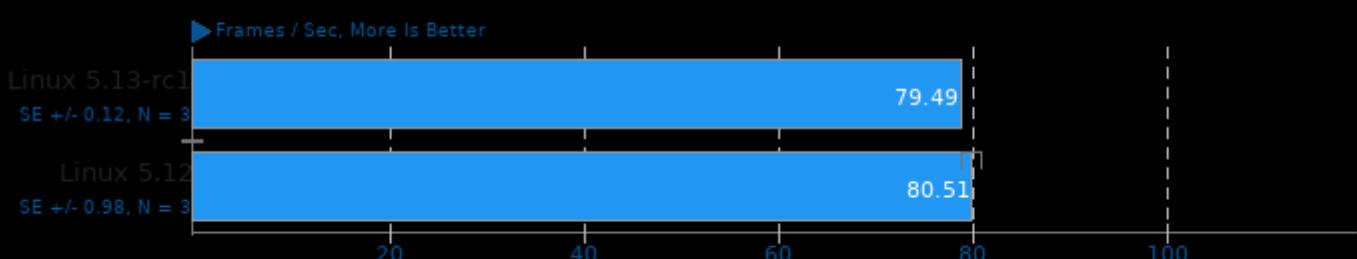
## ParaView 5.9

Test: Many Spheres - Resolution: 3840 x 2160



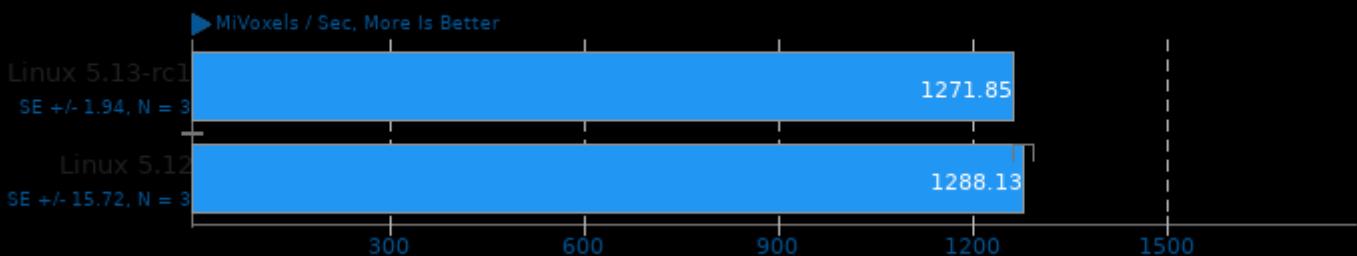
## ParaView 5.9

Test: Wavelet Volume - Resolution: 3840 x 2160



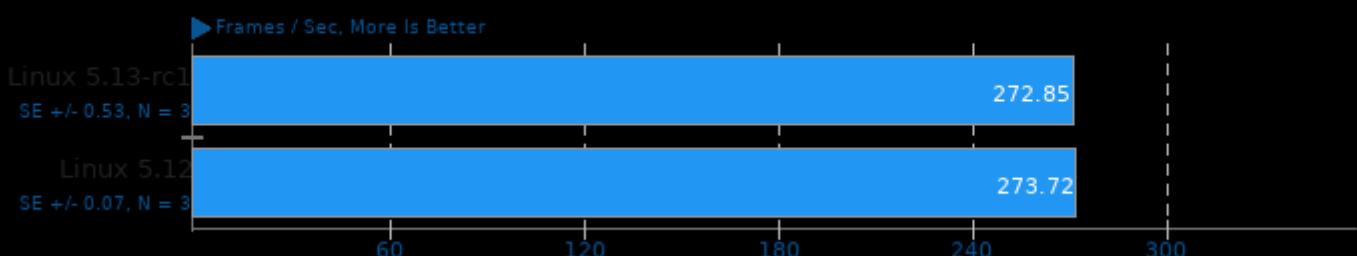
## ParaView 5.9

Test: Wavelet Volume - Resolution: 3840 x 2160



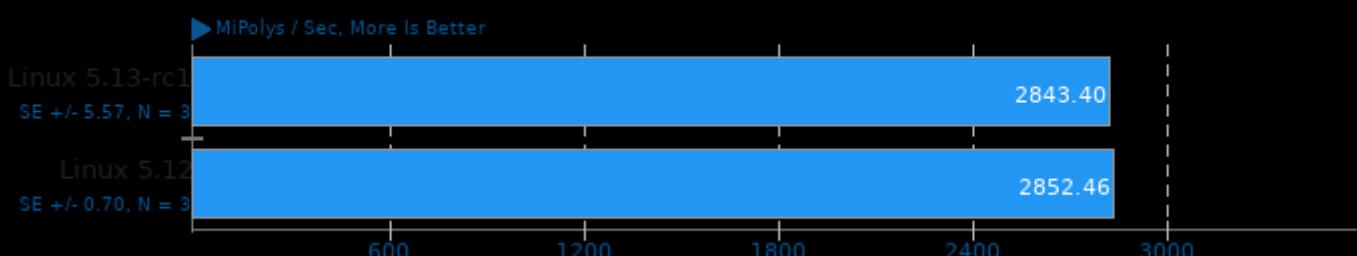
## ParaView 5.9

Test: Wavelet Contour - Resolution: 3840 x 2160



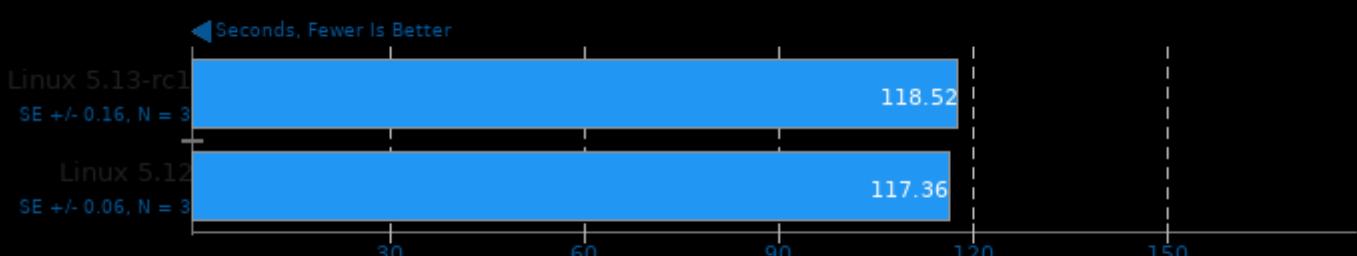
## ParaView 5.9

Test: Wavelet Contour - Resolution: 3840 x 2160



## Parboil 2.5

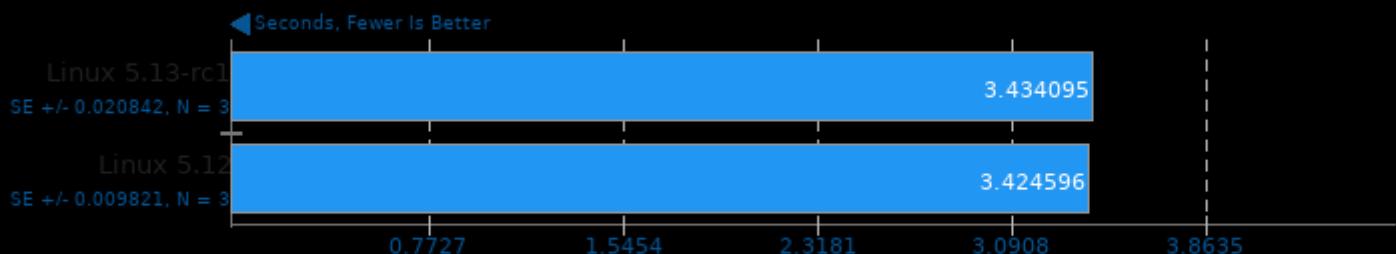
Test: OpenMP LBM



1. (CXX) g++ options: -lm -lpthread -lgomp -O3 -ffast-math -fopenmp

## Parboil 2.5

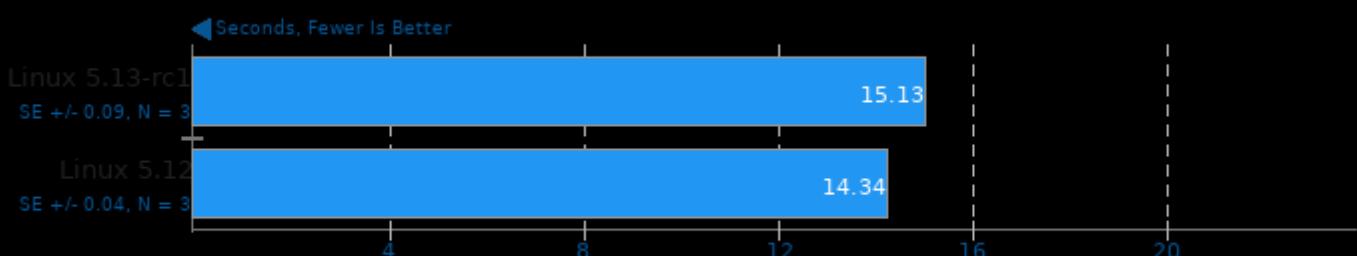
Test: OpenMP CUTCP



1. (CXX) g++ options: -lm -lpthread -lgomp -O3 -ffast-math -fopenmp

## Parboil 2.5

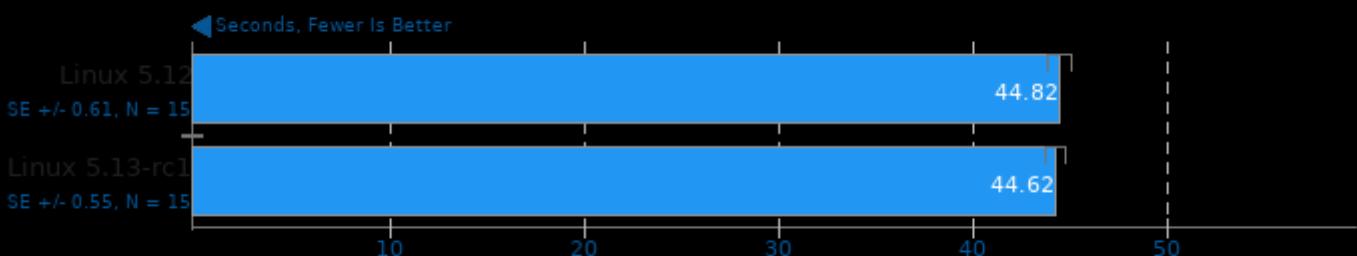
Test: OpenMP Stencil



1. (CXX) g++ options: -lm -lpthread -lgomp -O3 -ffast-math -fopenmp

## Parboil 2.5

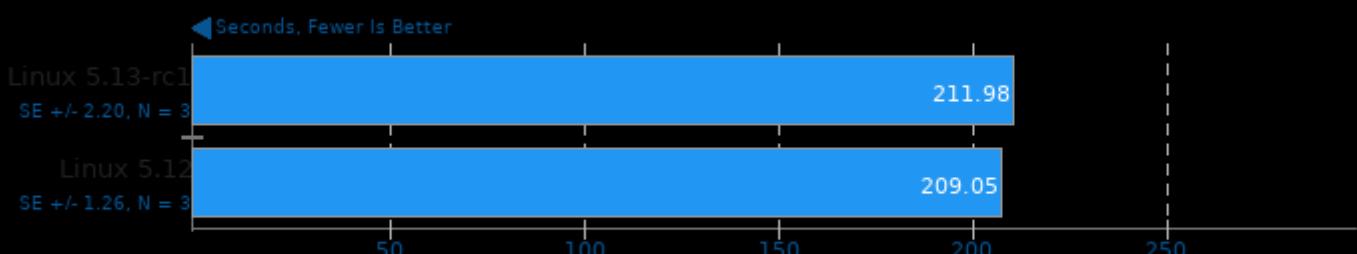
Test: OpenMP MRI Gridding



1. (CXX) g++ options: -lm -lpthread -lgomp -O3 -ffast-math -fopenmp

## Rodinia 3.1

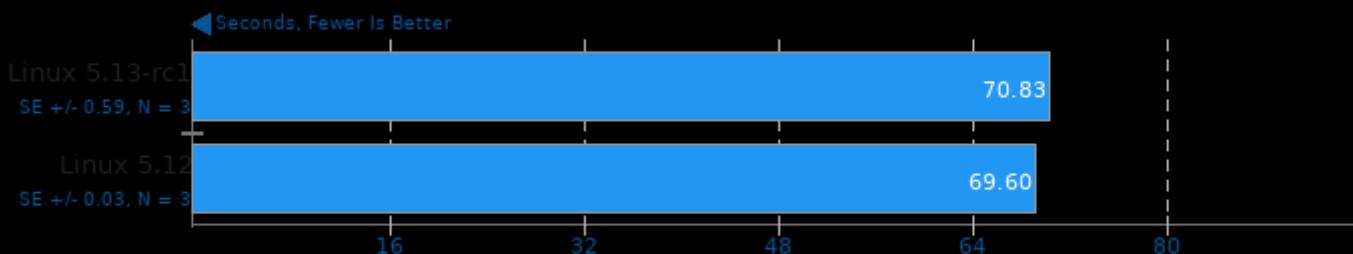
Test: OpenMP LavaMD



1. (CXX) g++ options: -O2 -fOpenCL

## Rodinia 3.1

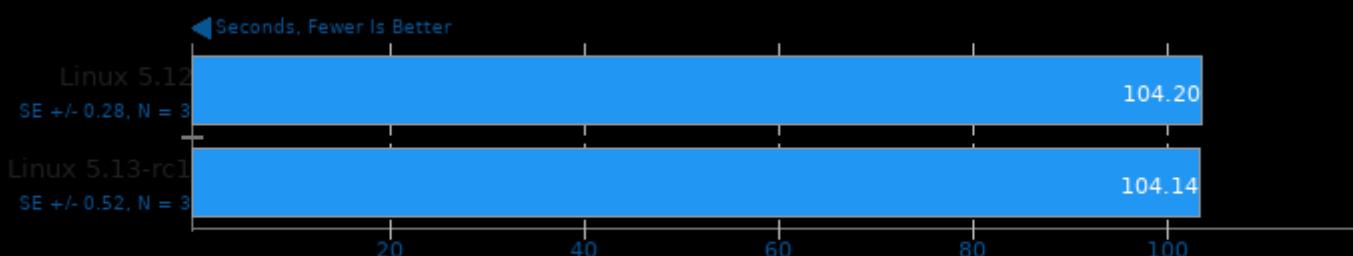
Test: OpenMP HotSpot3D



1. (CXX) g++ options: -O2 -fOpenCL

## Rodinia 3.1

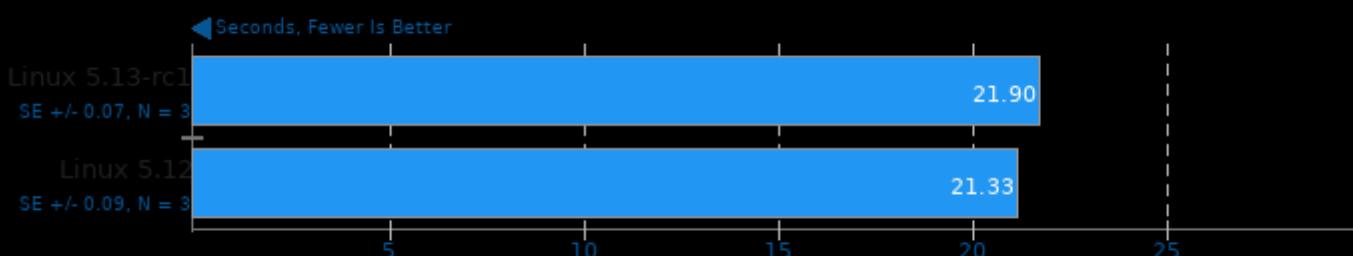
Test: OpenMP Leukocyte



1. (CXX) g++ options: -O2 -fOpenCL

## Rodinia 3.1

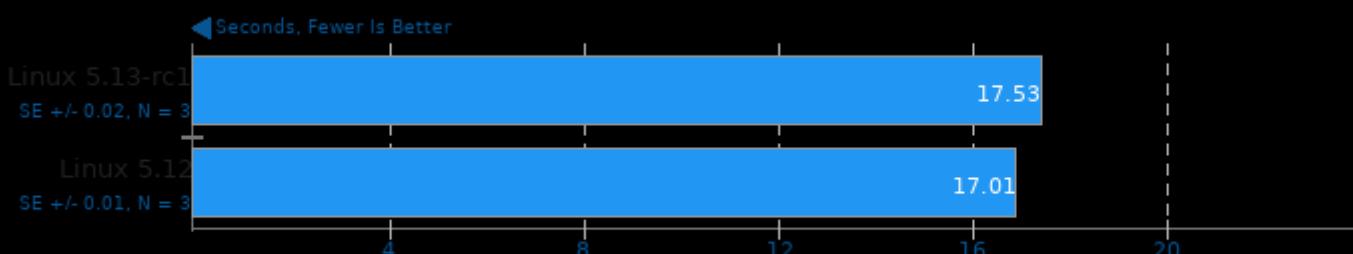
Test: OpenMP CFD Solver



1. (CXX) g++ options: -O2 -fOpenCL

## Rodinia 3.1

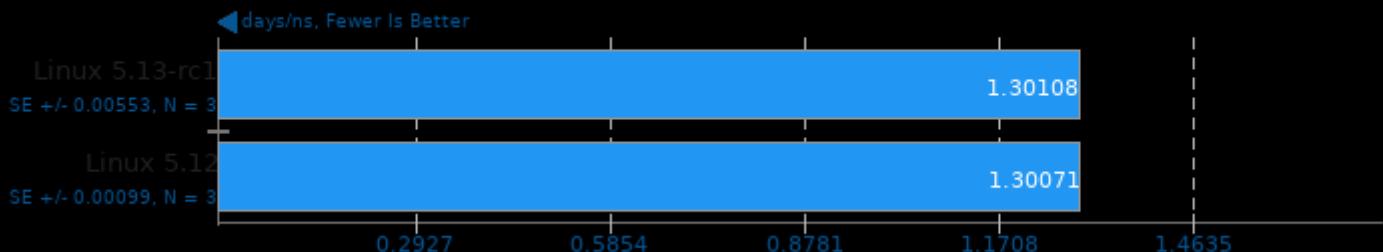
Test: OpenMP Streamcluster



1. (CXX) g++ options: -O2 -fOpenCL

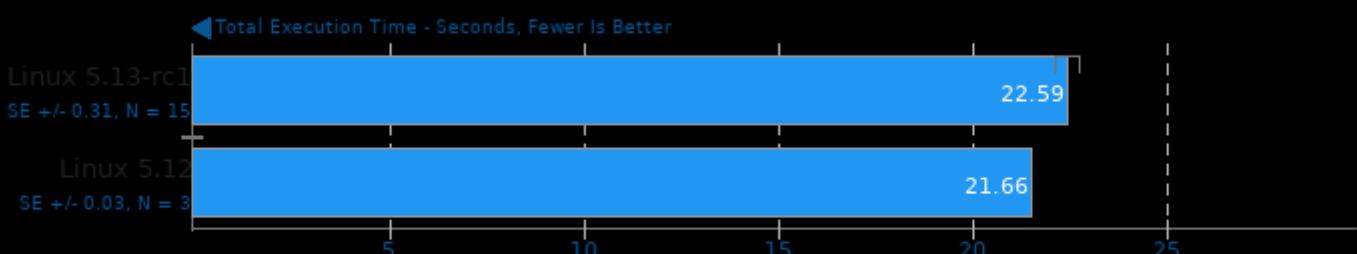
### NAMD 2.14

ATPase Simulation - 327,506 Atoms



### QMCPACK 3.11

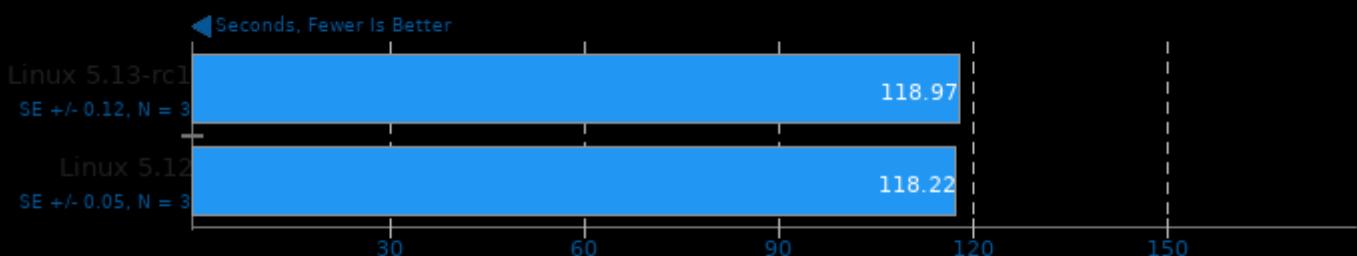
Input: simple-H2O



1. (CXX) g++ options: -fopenmp -finline-limit=1000 -fstrict-aliasing -funroll-all-loops -march=native -O3 -fomit-frame-pointer -ffast-math -pthread -lm

### Xcompact3d Incompact3d 2021-03-11

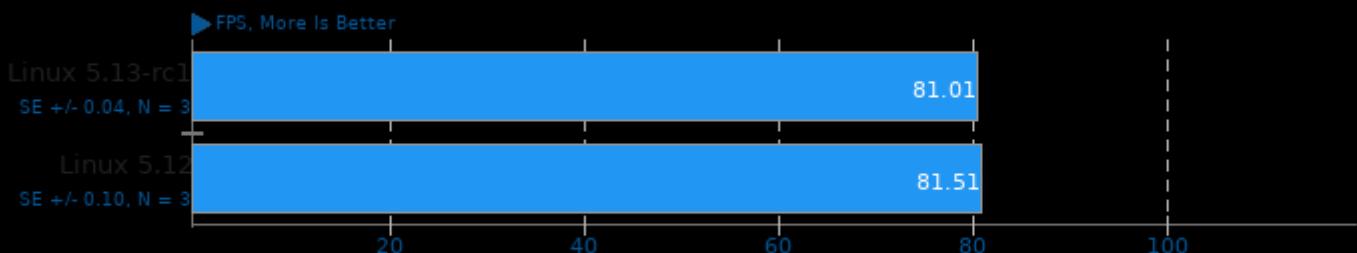
Input: input.i3d 193 Cells Per Direction



1. (F9X) gfortran options: -cpp -O2 -funroll-loops -floop-optimize -fcray-pointer -fbacktrace -pthread -lmpi\_usempif08 -lmpi\_mpifh -lmpi -lopen-rte -lopen

### libgav1 0.16.3

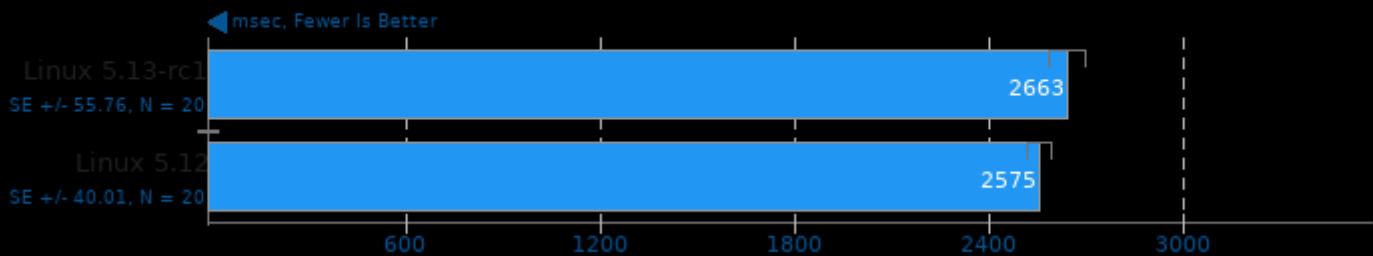
Video Input: Summer Nature 4K



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

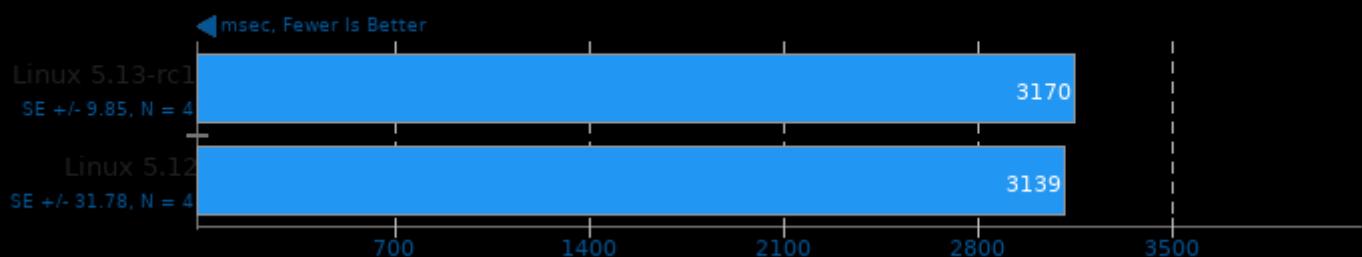
## DaCapo Benchmark 9.12-MR1

Java Test: H2



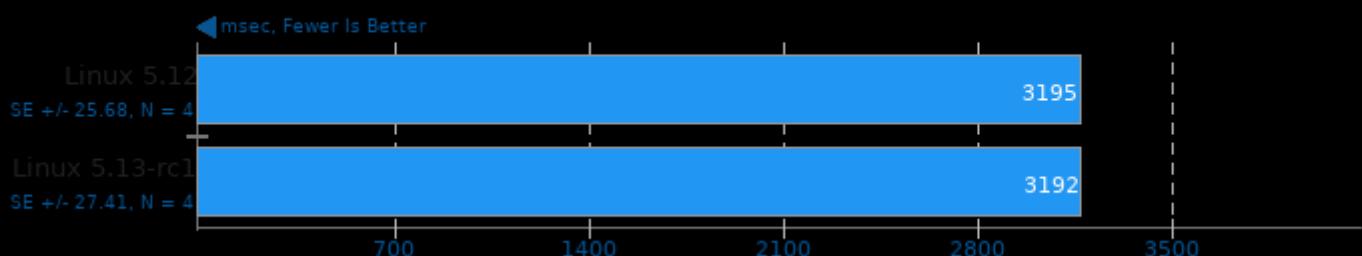
## DaCapo Benchmark 9.12-MR1

Java Test: Jython



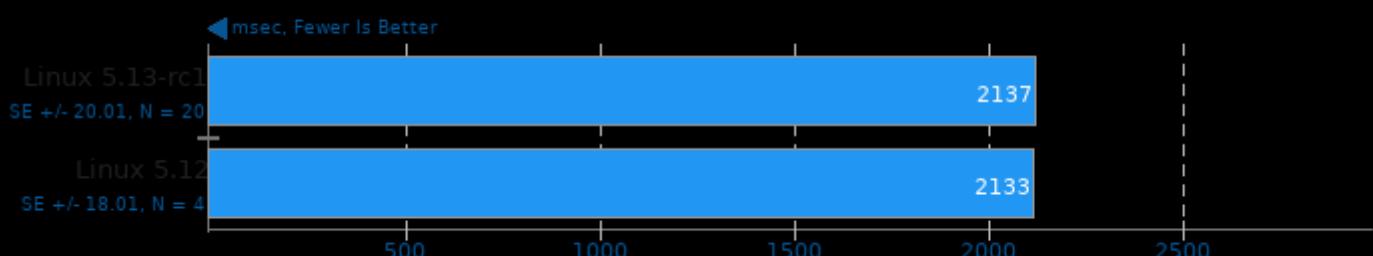
## DaCapo Benchmark 9.12-MR1

Java Test: Tradesoap



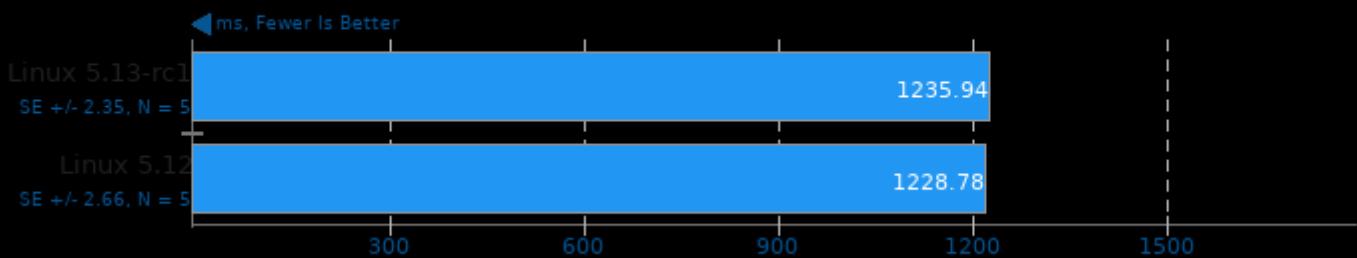
## DaCapo Benchmark 9.12-MR1

Java Test: Tradebeans



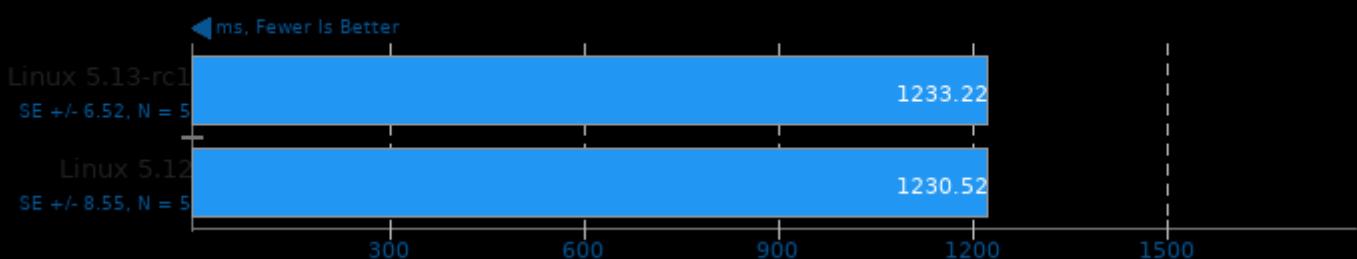
## Renaissance 0.10.0

Test: Scala Dotty



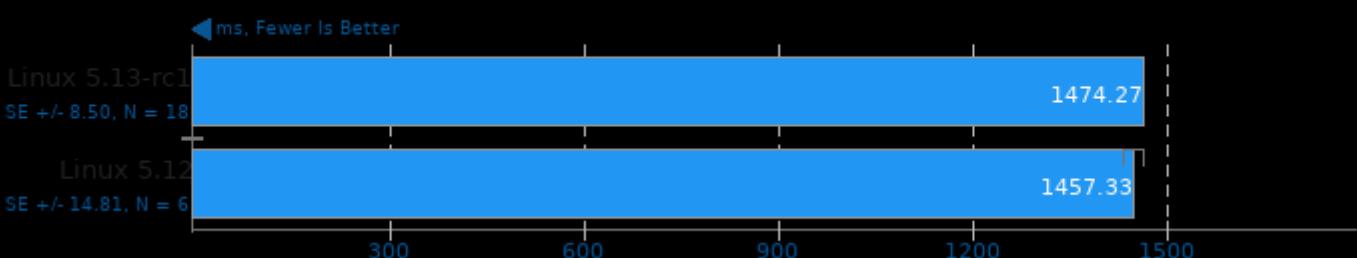
## Renaissance 0.10.0

Test: Random Forest



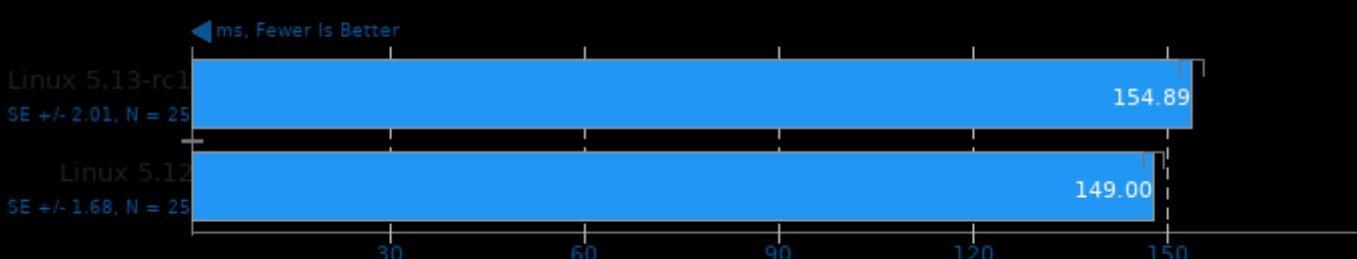
## Renaissance 0.10.0

Test: Apache Spark ALS



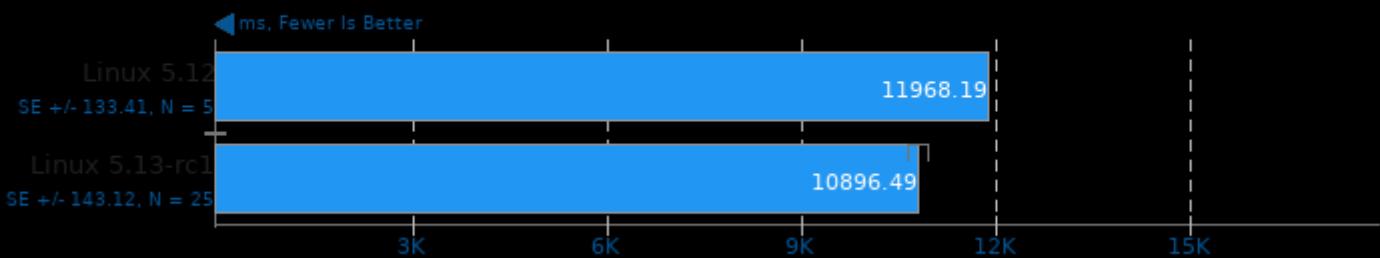
## Renaissance 0.10.0

Test: Apache Spark Bayes



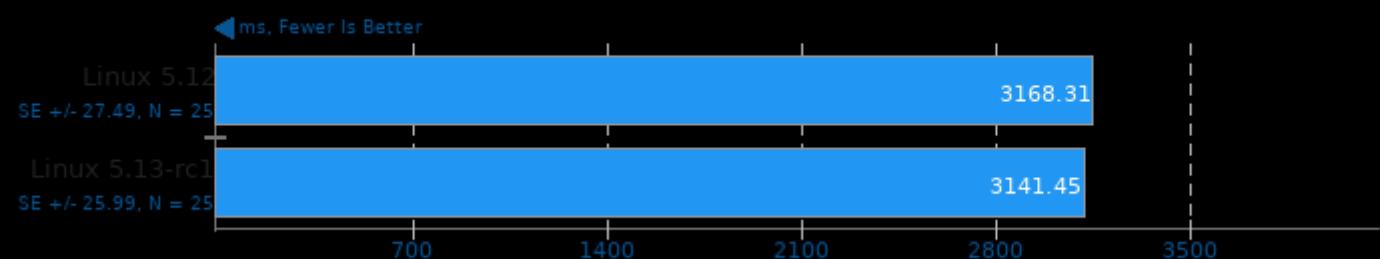
## Renaissance 0.10.0

Test: Savina Reactors.IO



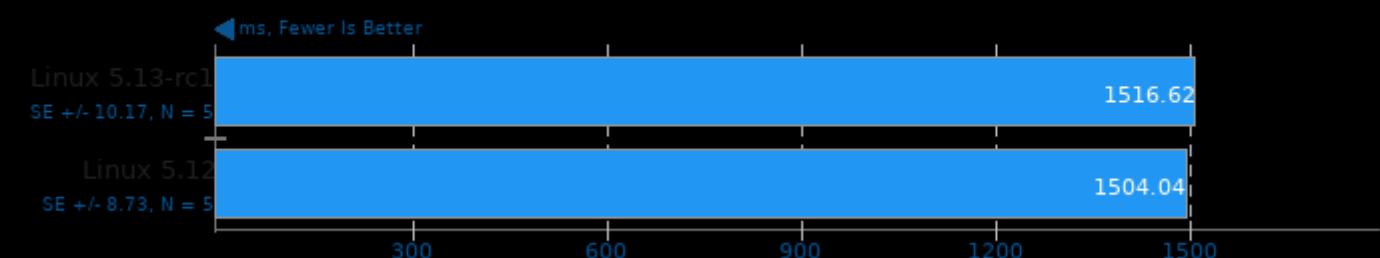
## Renaissance 0.10.0

Test: Apache Spark PageRank



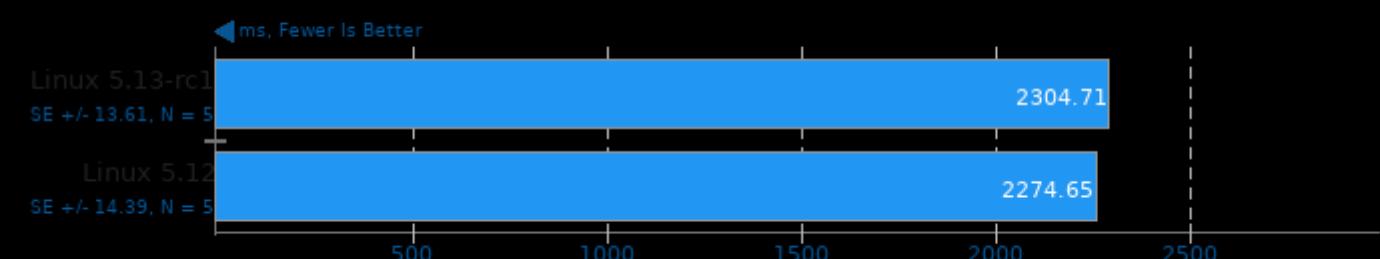
## Renaissance 0.10.0

Test: Twitter HTTP Requests



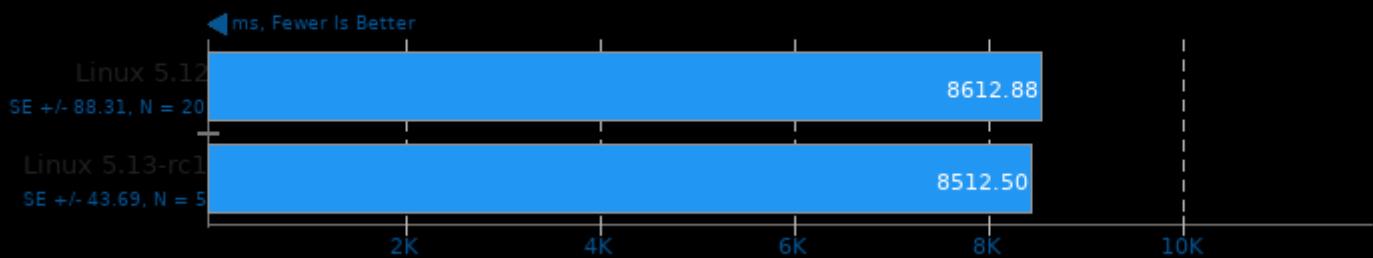
## Renaissance 0.10.0

Test: In-Memory Database Shootout



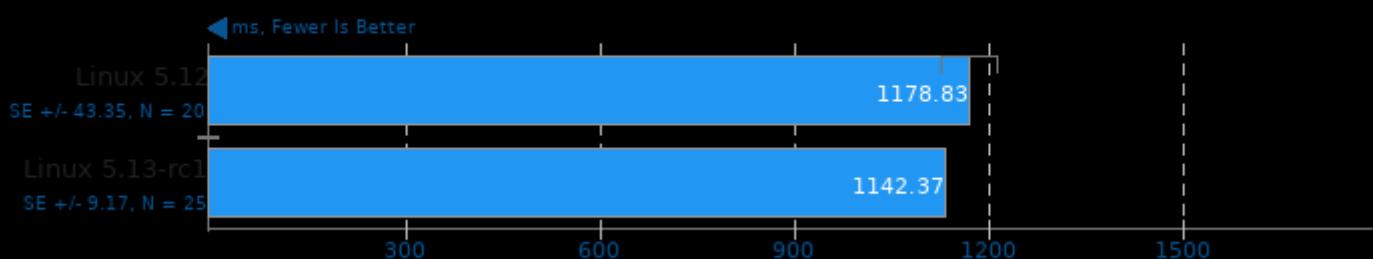
## Renaissance 0.10.0

Test: Akka Unbalanced Cobwebbed Tree



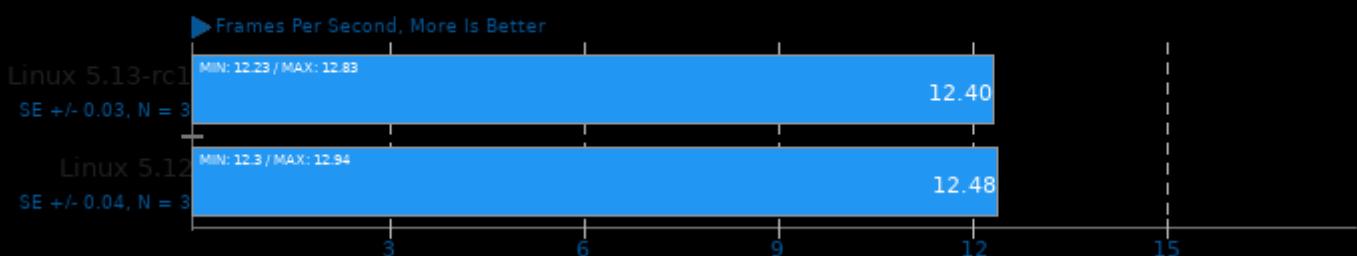
## Renaissance 0.10.0

Test: Genetic Algorithm Using Jenetics + Futures



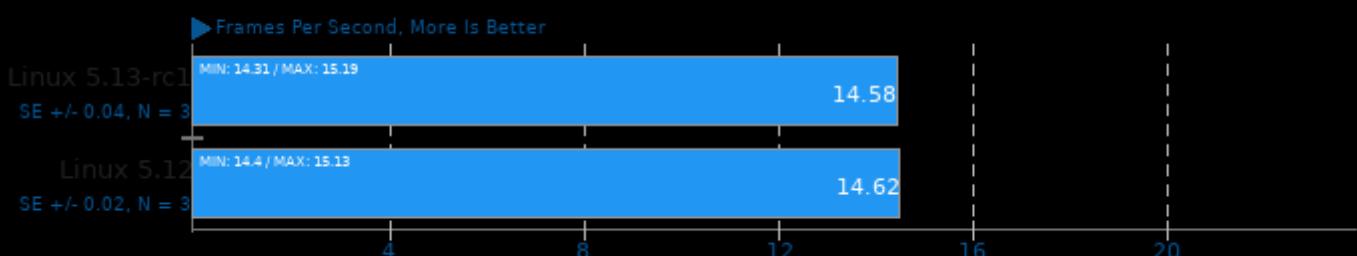
## Embree 3.13

Binary: Pathtracer - Model: Crown



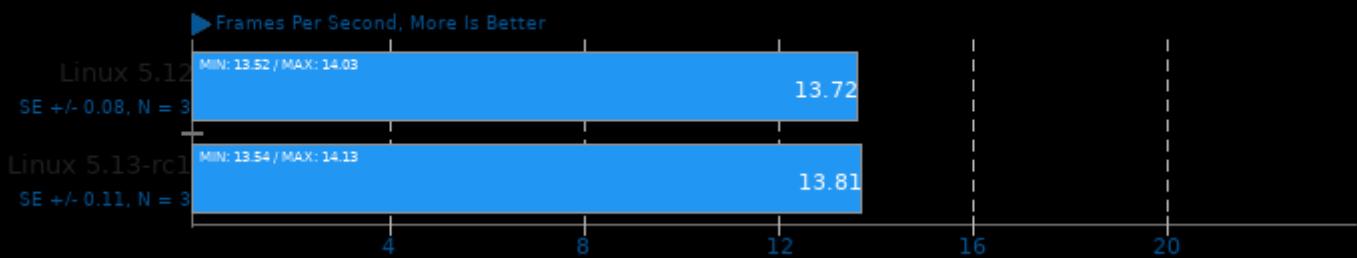
## Embree 3.13

Binary: Pathtracer ISPC - Model: Crown



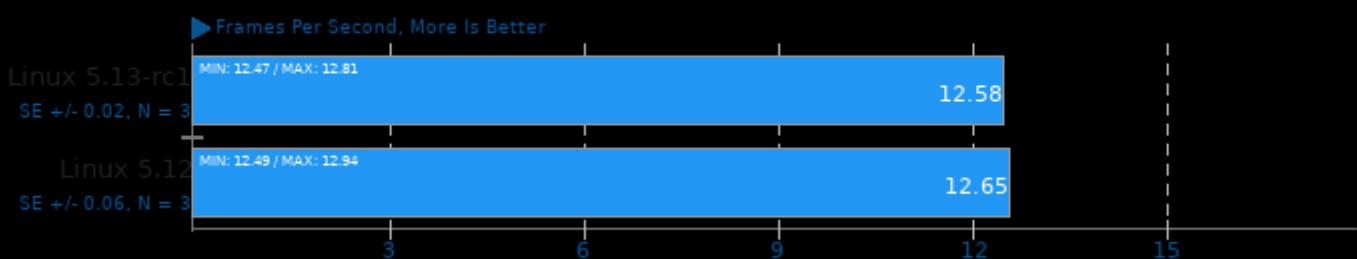
## Embree 3.13

Binary: Pathtracer - Model: Asian Dragon



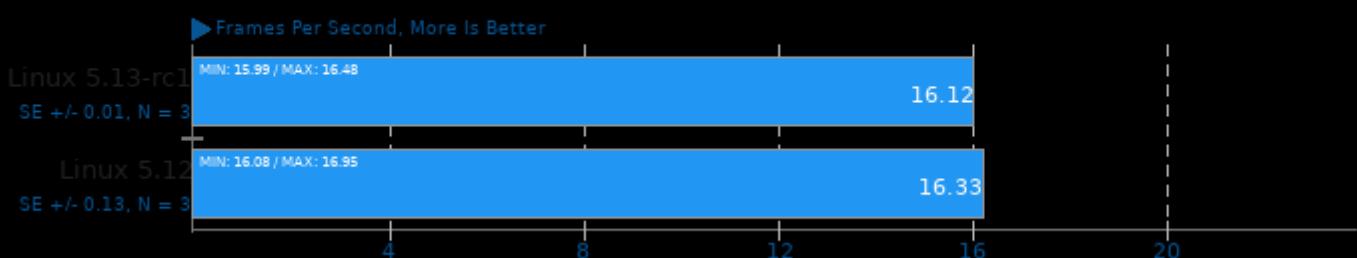
## Embree 3.13

Binary: Pathtracer - Model: Asian Dragon Obj



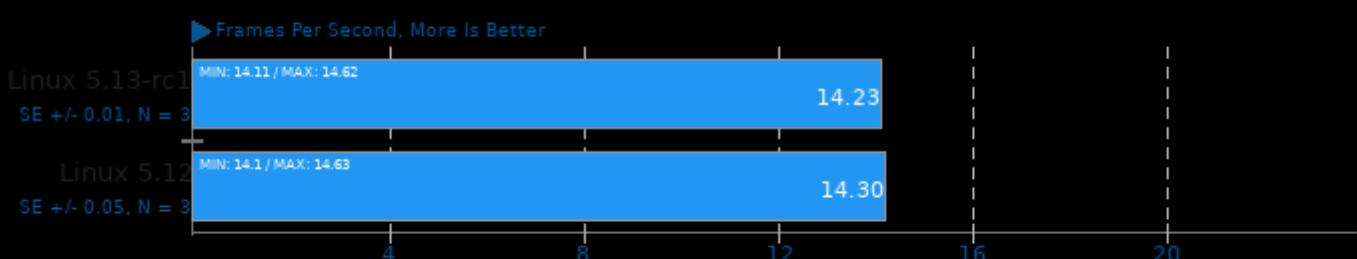
## Embree 3.13

Binary: Pathtracer ISPC - Model: Asian Dragon



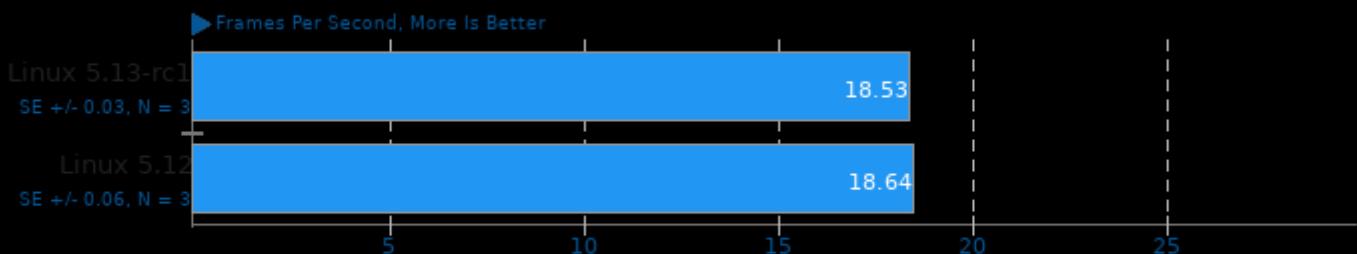
## Embree 3.13

Binary: Pathtracer ISPC - Model: Asian Dragon Obj



## SVT-AV1 0.8.7

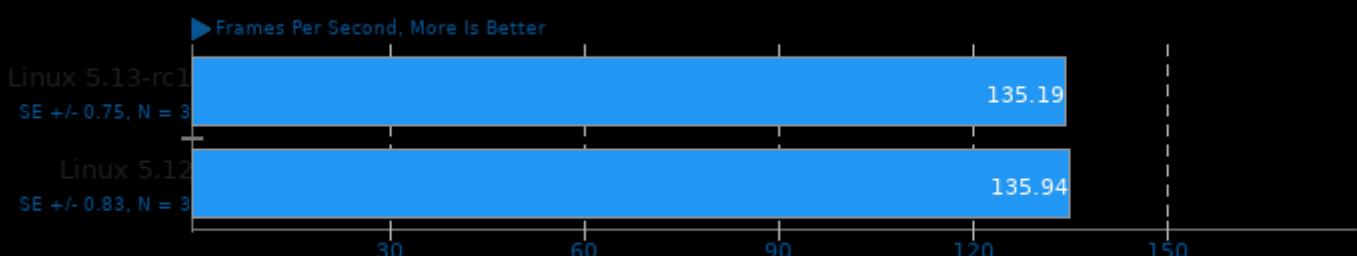
Encoder Mode: Preset 8 - Input: Bosphorus 4K



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

## SVT-HEVC 1.5.0

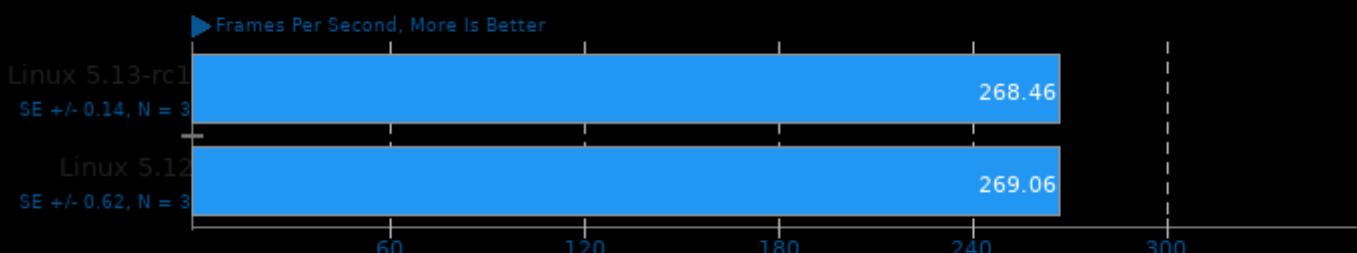
Tuning: 7 - Input: Bosphorus 1080p



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

## SVT-HEVC 1.5.0

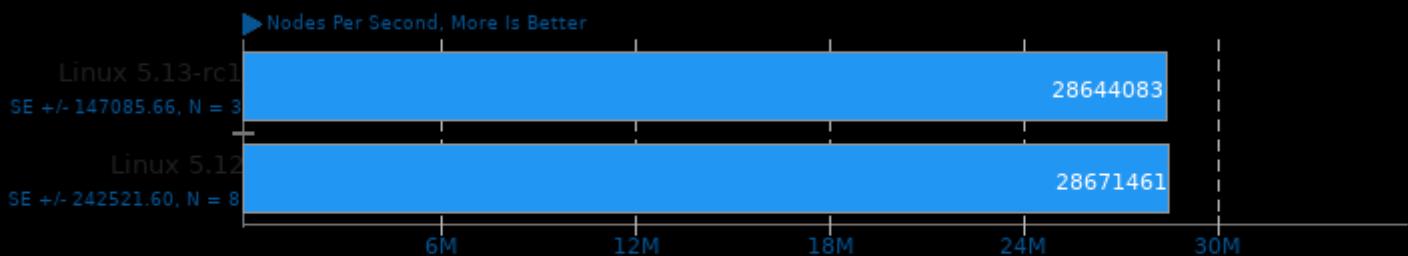
Tuning: 10 - Input: Bosphorus 1080p



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

### Stockfish 13

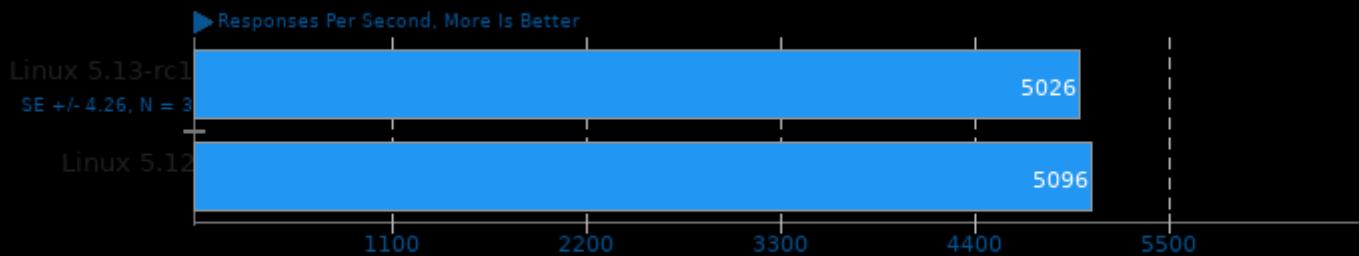
Total Time



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

### PJSIP 2.11

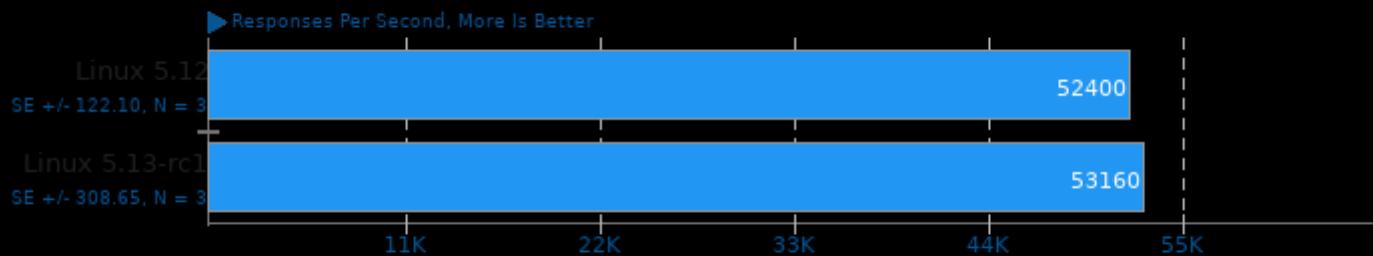
Method: INVITE



1. (CC) gcc options: -ISDL2 -lavformat -lavcodec -lswscale -lavutil -lstdc++ -lopus -lssl -lcrypto -luuid -lm -lrt -lpthread -lasound -O2

### PJSIP 2.11

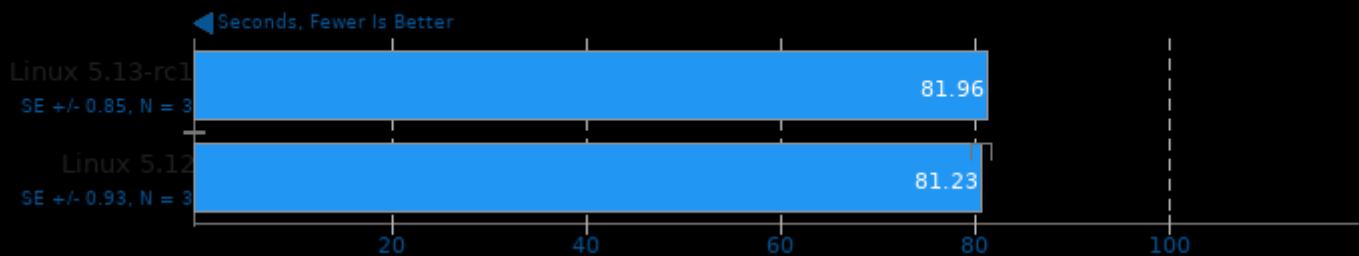
Method: OPTIONS, Stateless



1. (CC) gcc options: -ISDL2 -lavformat -lavcodec -lswscale -lavutil -lstdc++ -lopus -lssl -lcrypto -luuid -lm -lrt -lpthread -lasound -O2

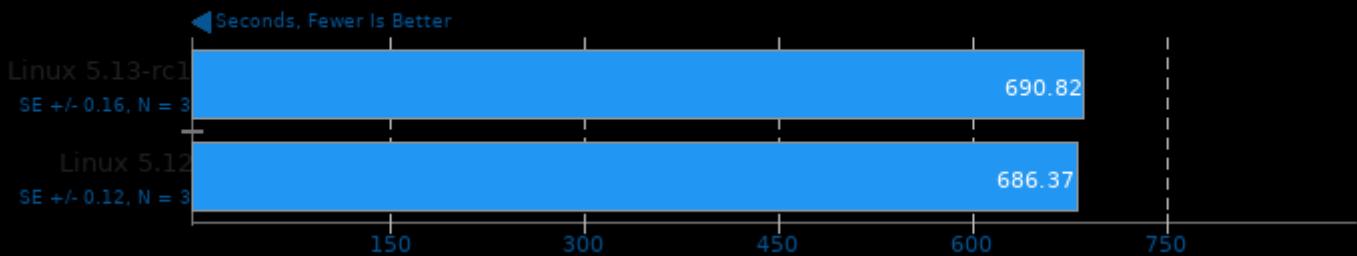
### Timed Linux Kernel Compilation 5.10.20

Time To Compile



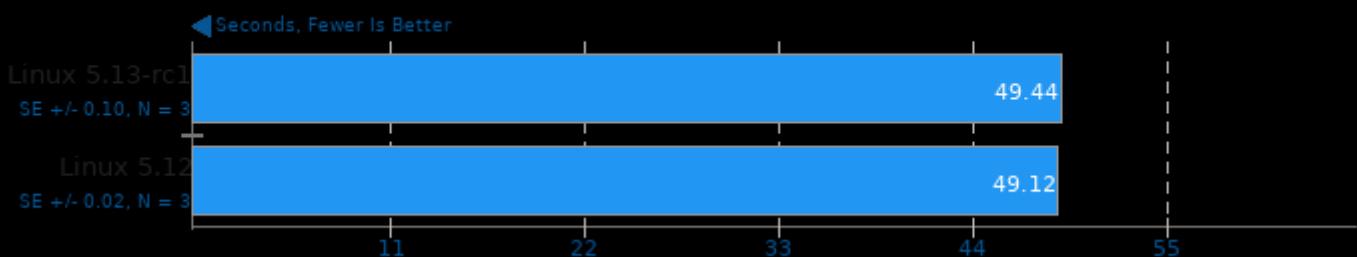
### Timed LLVM Compilation 12.0

Build System: Ninja



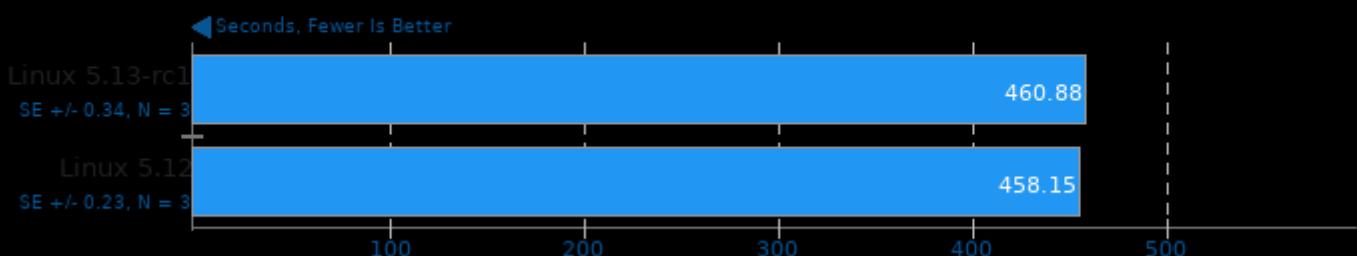
### Timed Mesa Compilation 21.0

Time To Compile



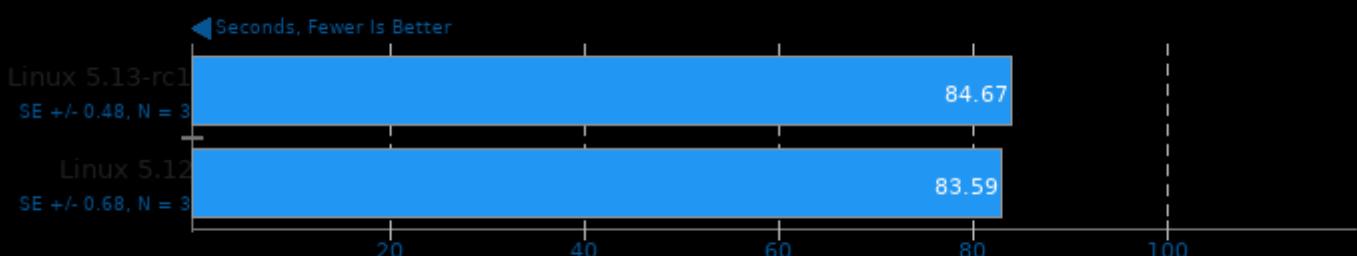
### Timed Node.js Compilation 15.11

Time To Compile



### Timed Wasmer Compilation 1.0.2

Time To Compile

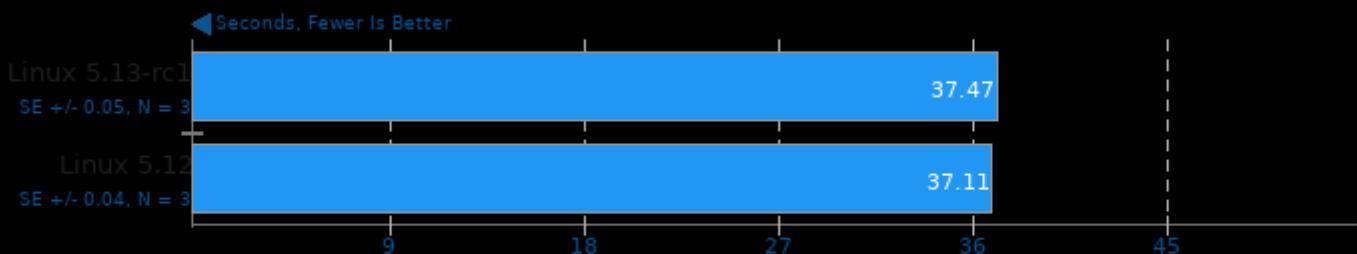


1. (CC) gcc options: -m64 -pie -nodefaultlibs -ldl -lrt -lpthread -lgcc\_s -lc -lm -lutil

## Linux 5.13 Rocket Lake Intel Performance

### Hackbench

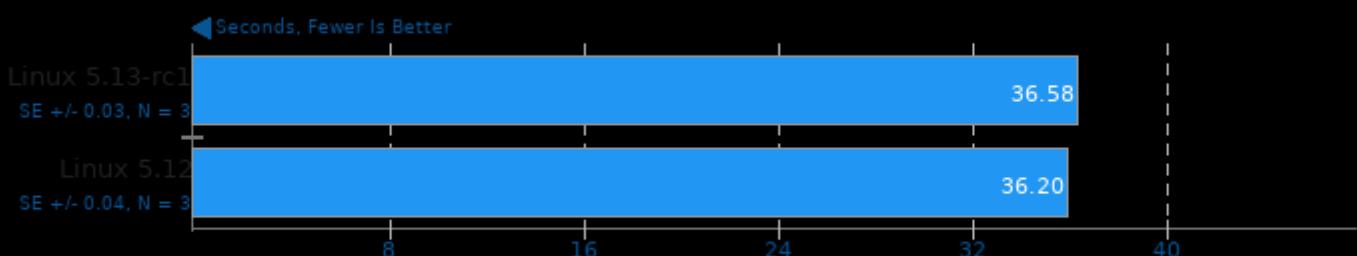
Count: 16 - Type: Thread



1. (CC) gcc options: -lpthread

### Hackbench

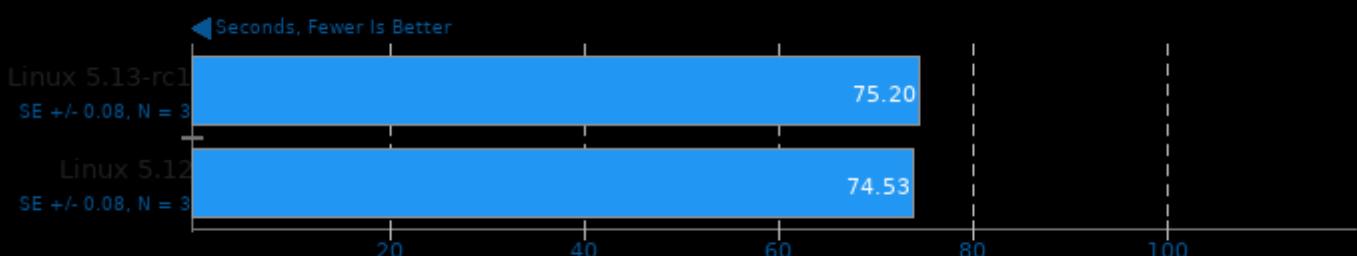
Count: 16 - Type: Process



1. (CC) gcc options: -lpthread

### Hackbench

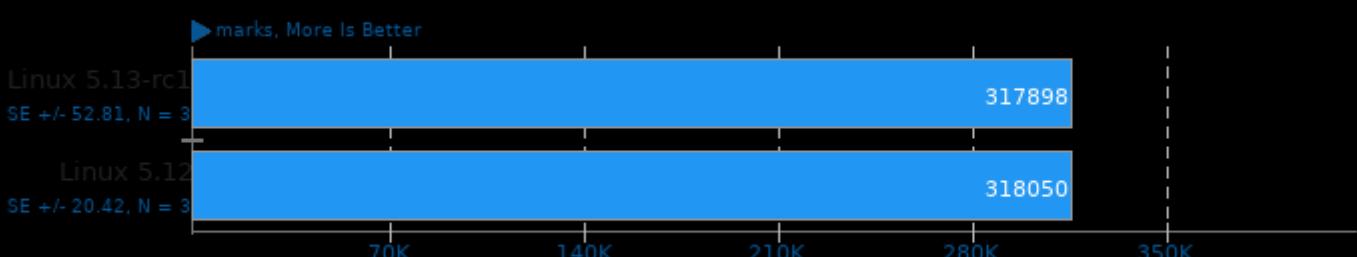
Count: 32 - Type: Process



1. (CC) gcc options: -lpthread

### SecureMark 1.0.4

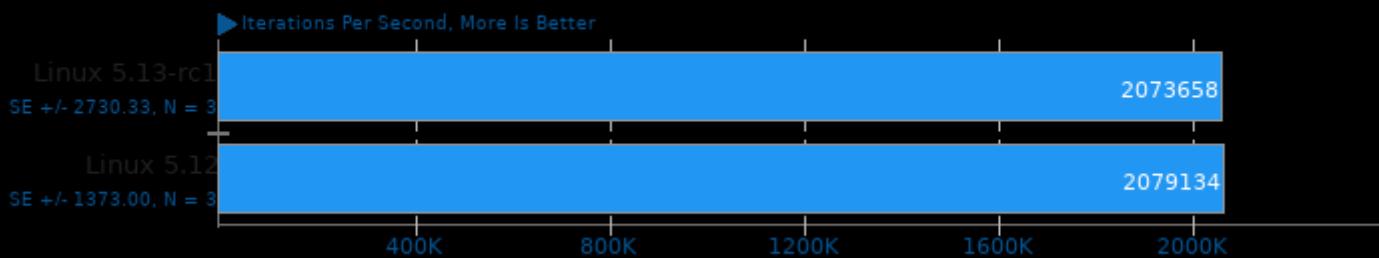
Benchmark: SecureMark-TLS



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

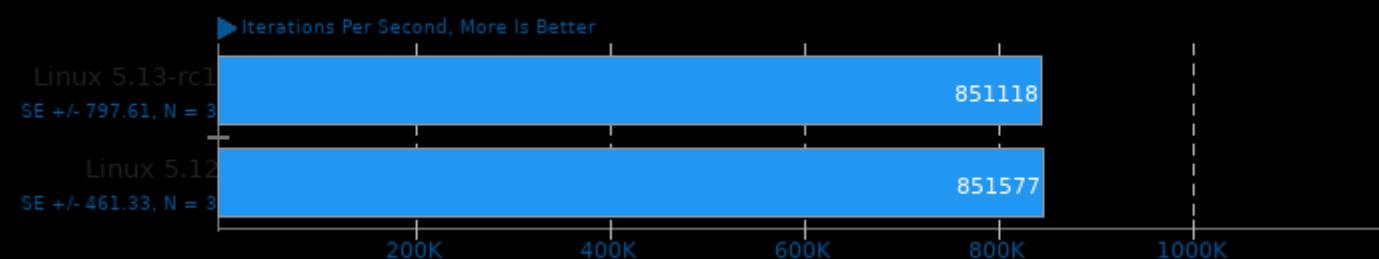
## Cryptsetup

PBKDF2-sha512



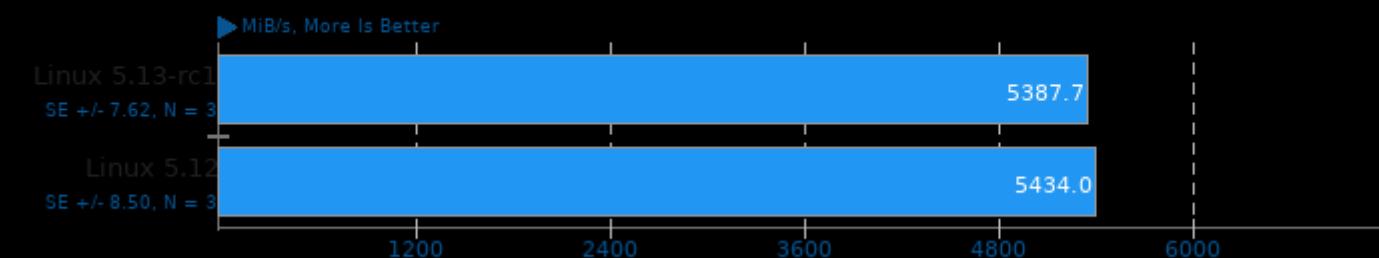
## Cryptsetup

PBKDF2-whirlpool



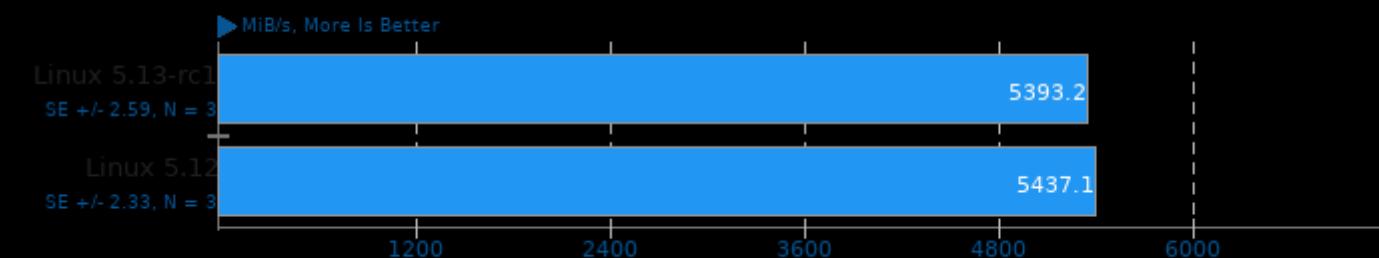
## Cryptsetup

AES-XTS 256b Encryption



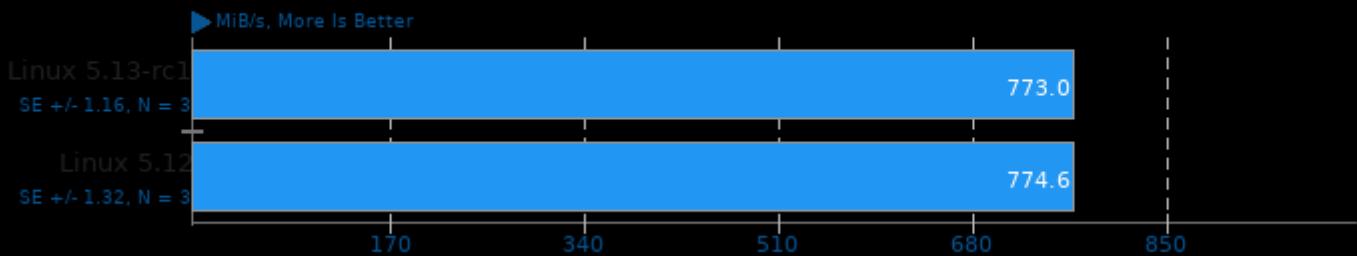
## Cryptsetup

AES-XTS 256b Decryption



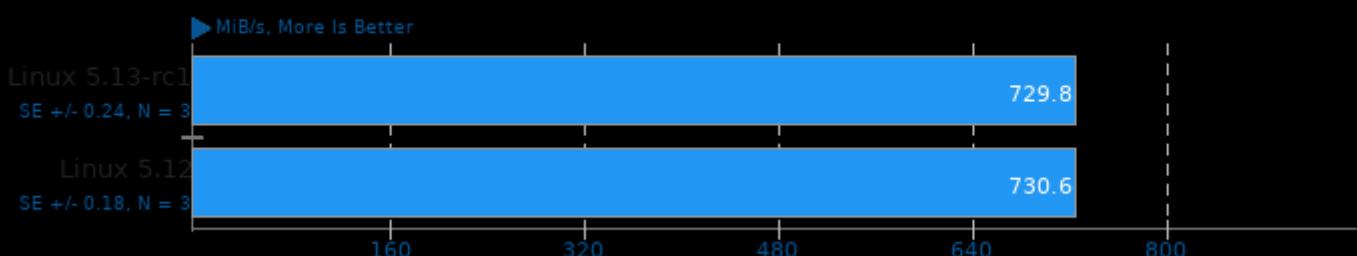
## Cryptsetup

Serpent-XTS 256b Encryption



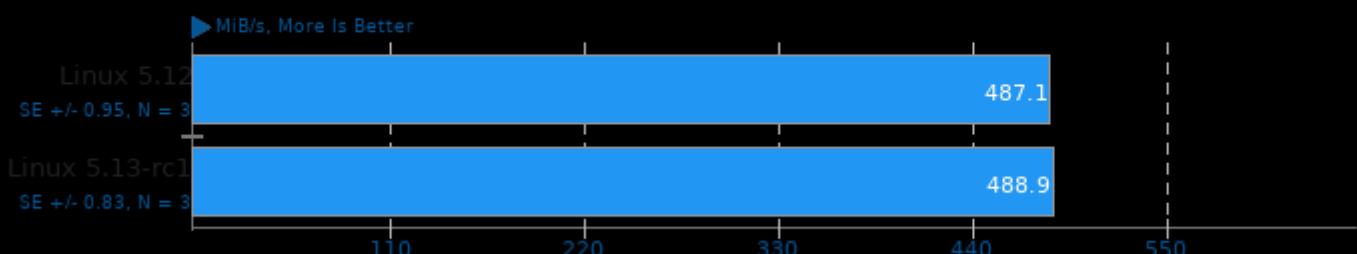
## Cryptsetup

Serpent-XTS 256b Decryption



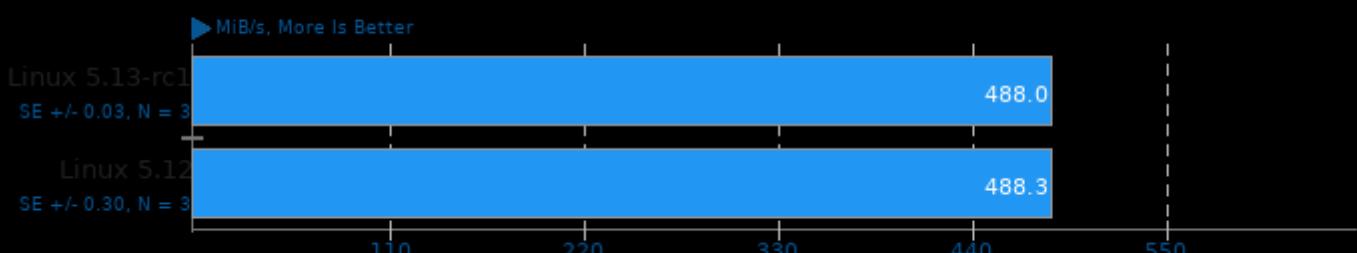
## Cryptsetup

Twofish-XTS 256b Encryption



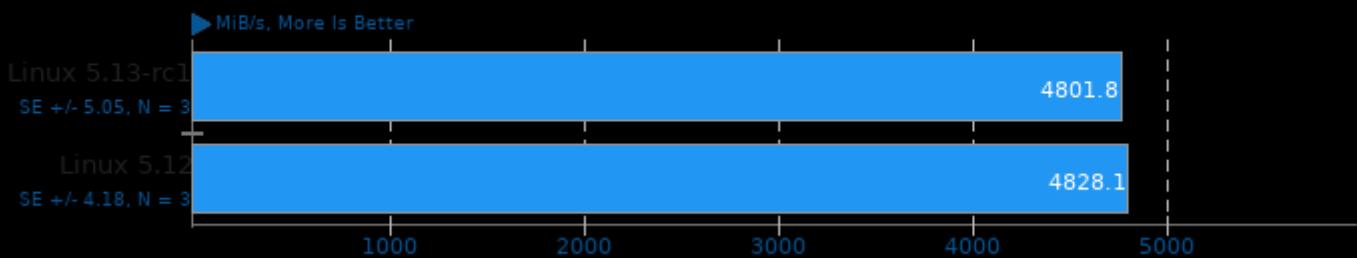
## Cryptsetup

Twofish-XTS 256b Decryption



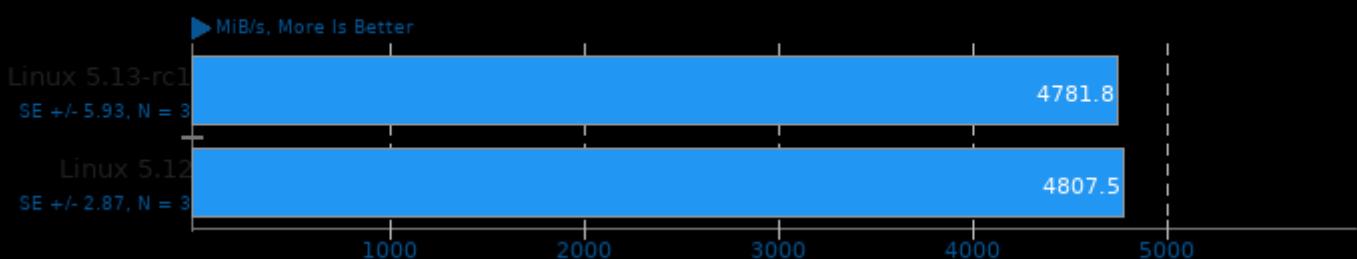
## Cryptsetup

AES-XTS 512b Encryption



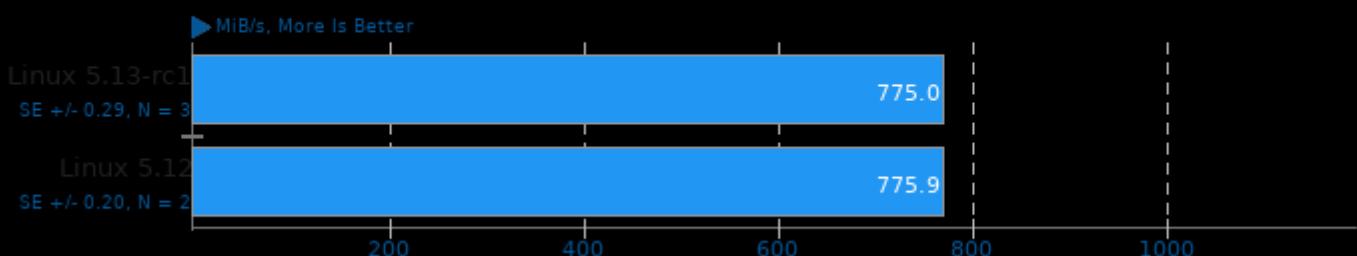
## Cryptsetup

AES-XTS 512b Decryption



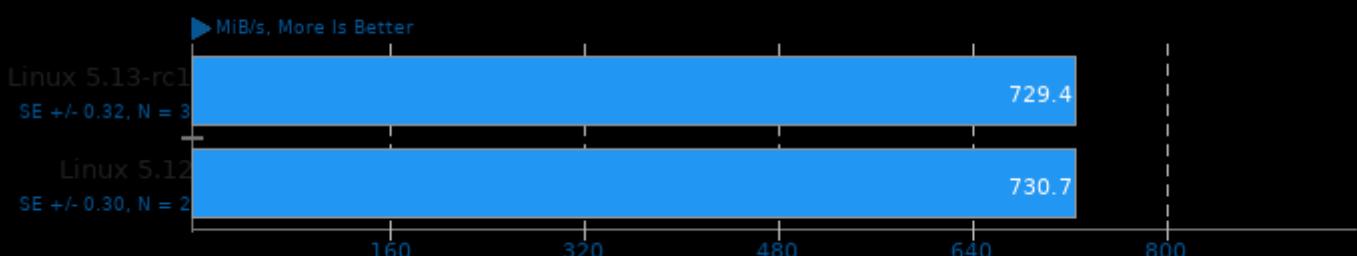
## Cryptsetup

Serpent-XTS 512b Encryption



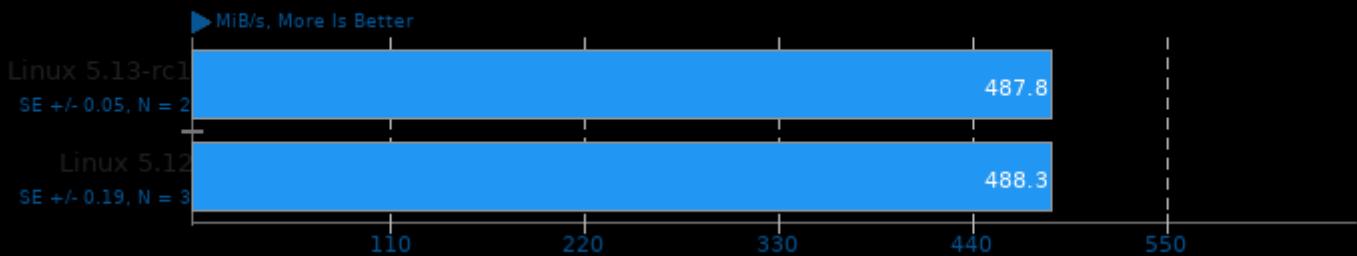
## Cryptsetup

Serpent-XTS 512b Decryption



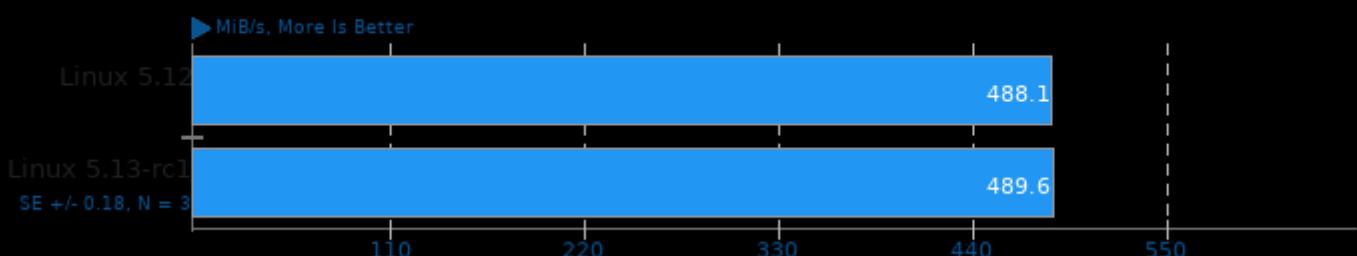
## Cryptsetup

Twofish-XTS 512b Decryption

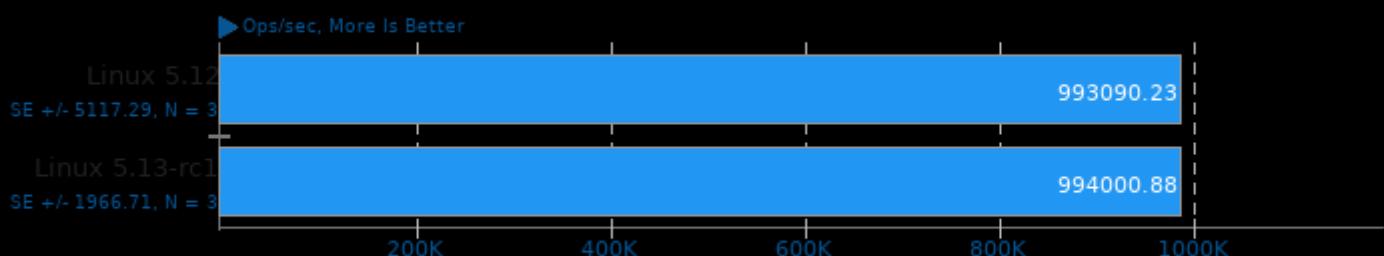


## Cryptsetup

Twofish-XTS 512b Encryption



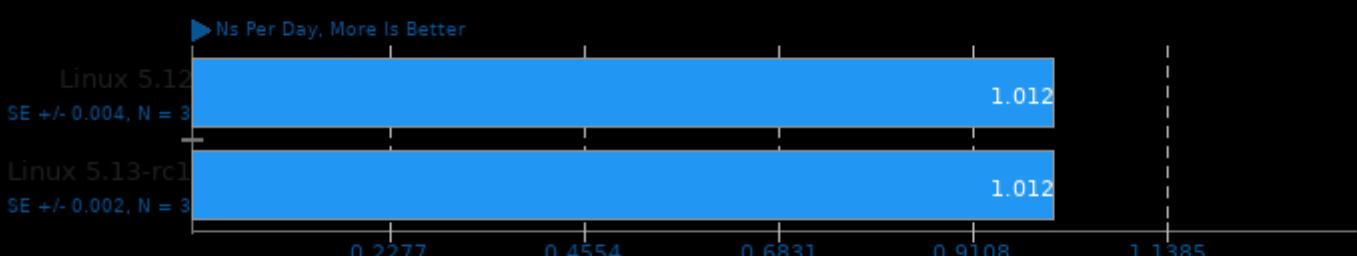
## KeyDB 6.0.16



1. (CXX) g++ options: -O2 -levent\_openssl -levent -lcrypto -lssl -lpthread -lz -lpcres

## GROMACS 2021

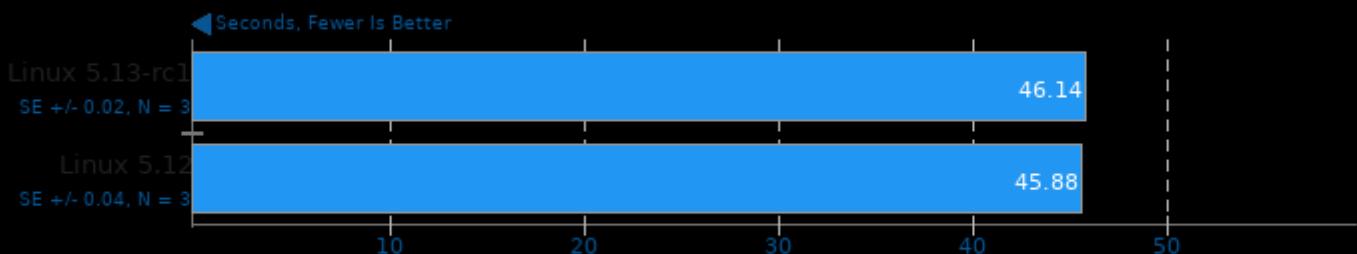
Input: water\_GMX50\_bare



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

## SQLite Speedtest 3.30

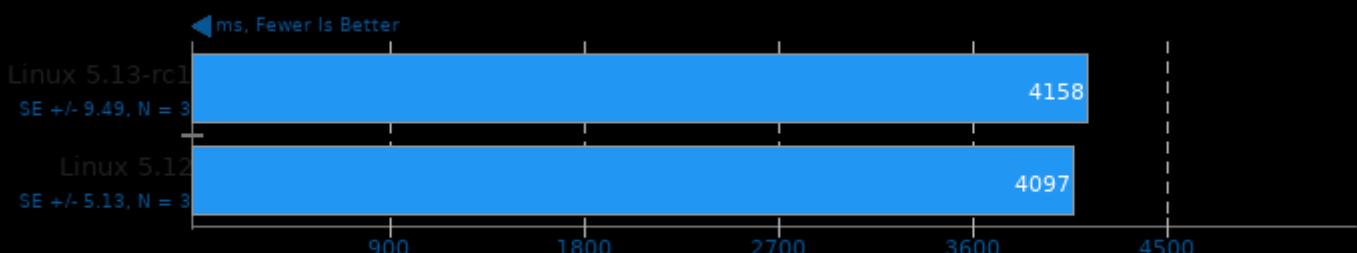
Timed Time - Size 1,000



1. (CC) gcc options: -O2 -ldl -lz -lpthread

## Google Draco 1.4.1

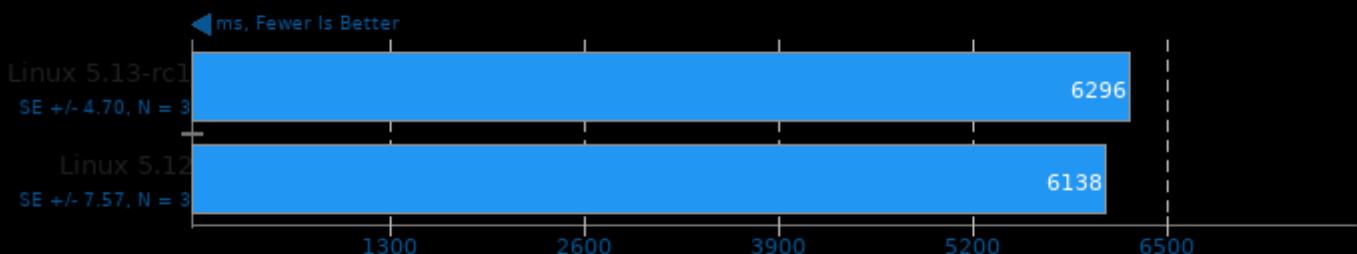
Model: Lion



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

## Google Draco 1.4.1

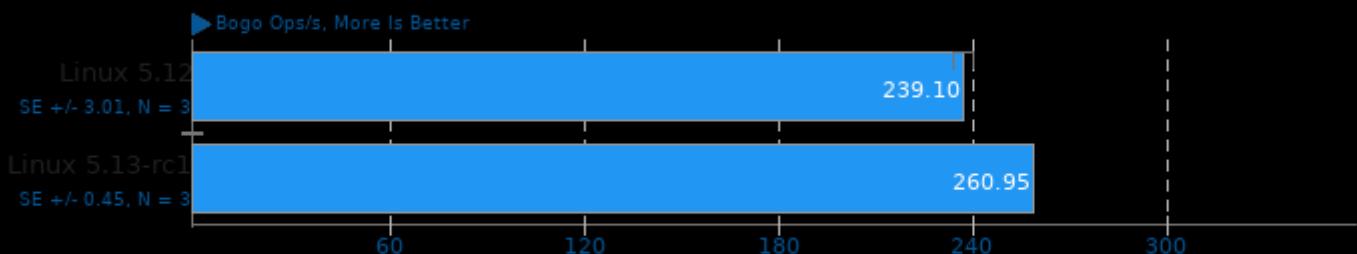
Model: Church Facade



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

## Stress-NG 0.11.07

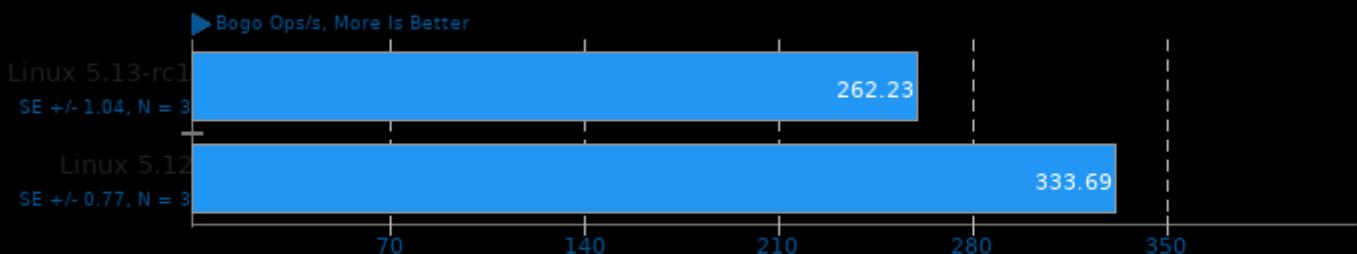
Test: MMAP



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

## Stress-NG 0.11.07

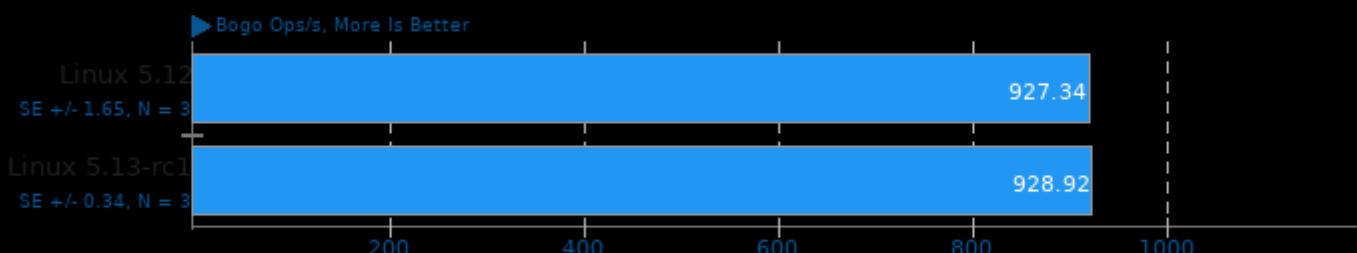
Test: NUMA



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

## Stress-NG 0.11.07

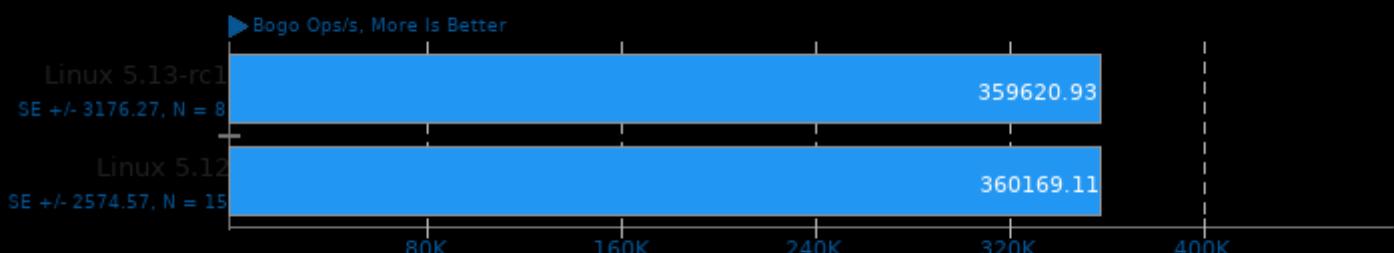
Test: MEMFD



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

## Stress-NG 0.11.07

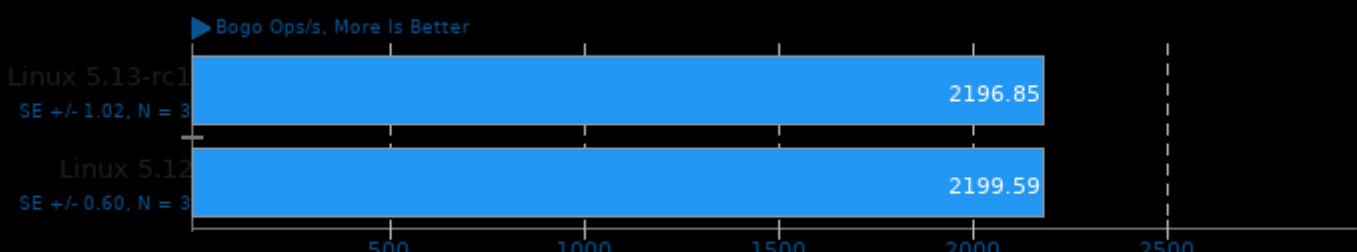
Test: Atomic



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

## Stress-NG 0.11.07

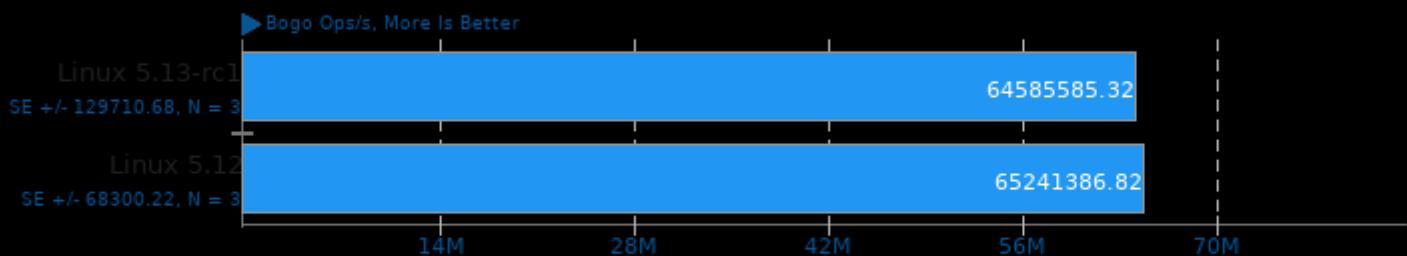
Test: Crypto



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

## Stress-NG 0.11.07

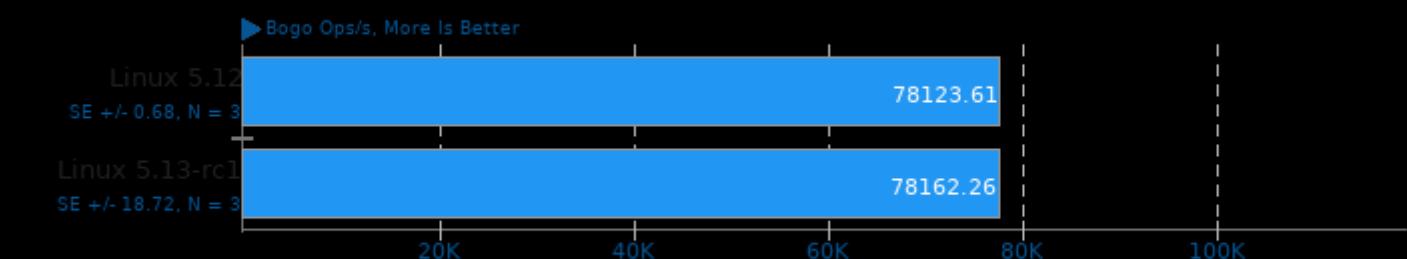
Test: Malloc



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

## Stress-NG 0.11.07

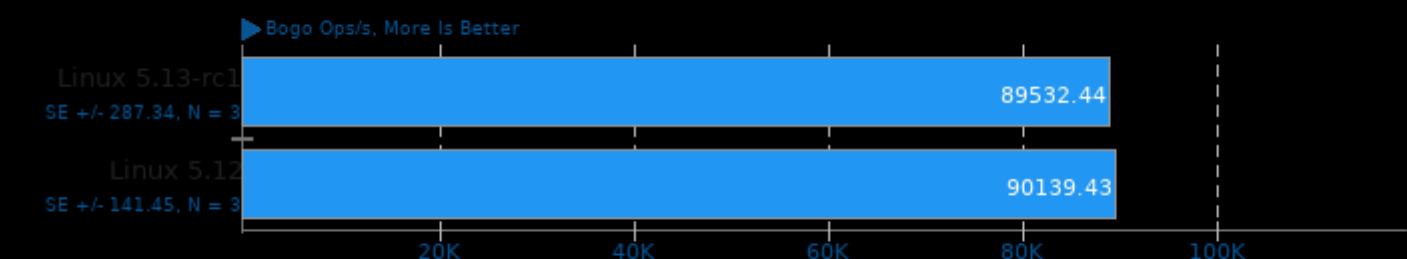
Test: RdRand



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

## Stress-NG 0.11.07

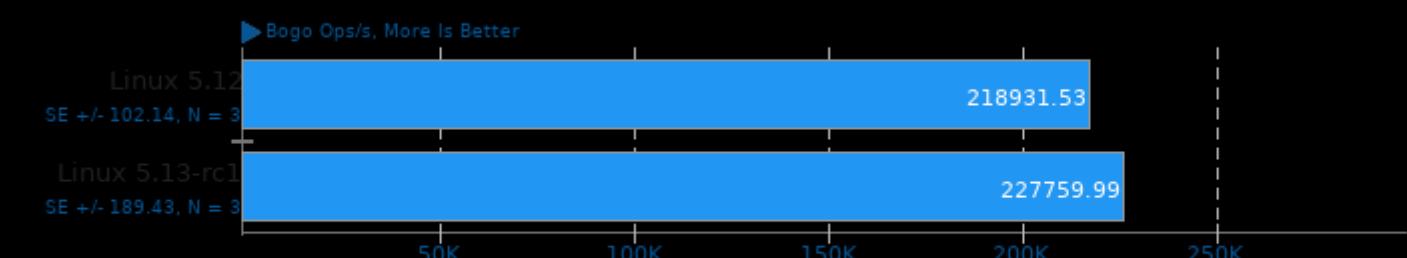
Test: Forking



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

## Stress-NG 0.11.07

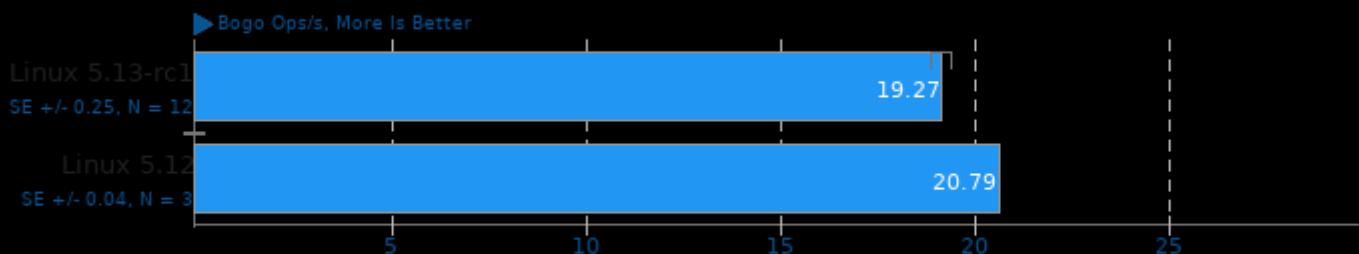
Test: SENDFILE



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

### Stress-NG 0.11.07

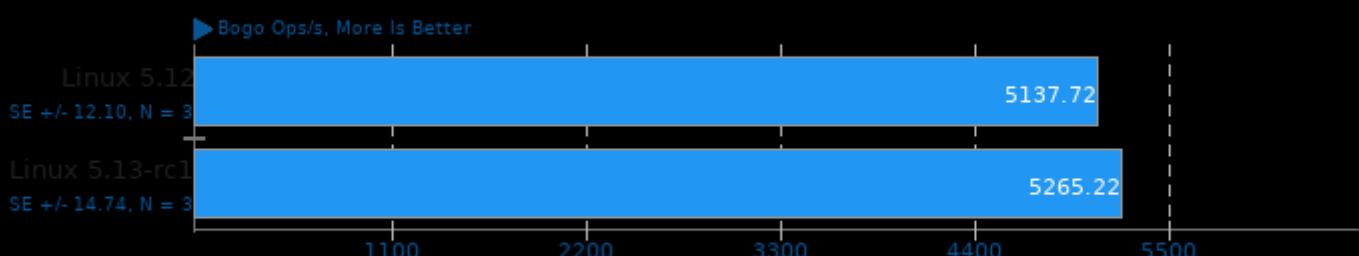
Test: CPU Cache



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

### Stress-NG 0.11.07

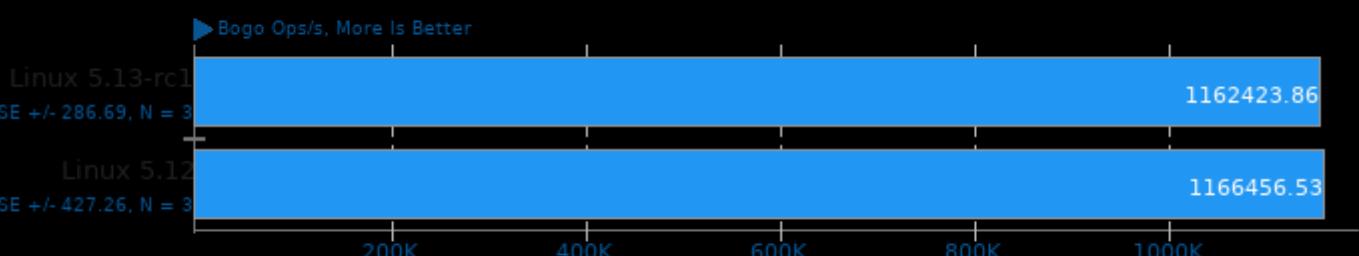
Test: CPU Stress



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

### Stress-NG 0.11.07

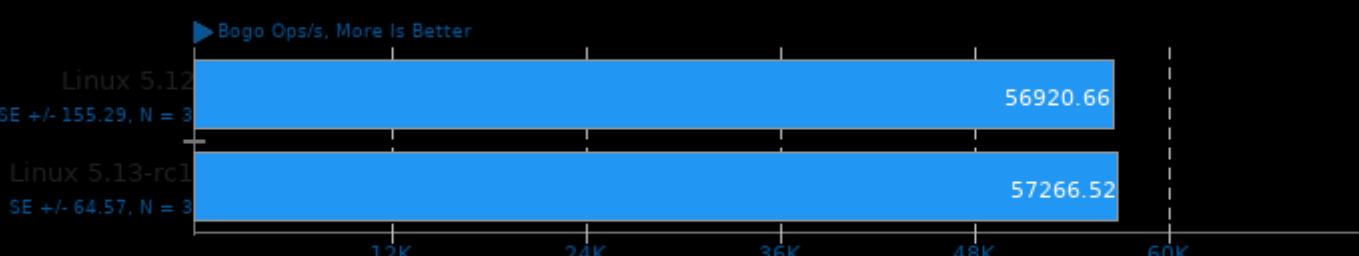
Test: Semaphores



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

### Stress-NG 0.11.07

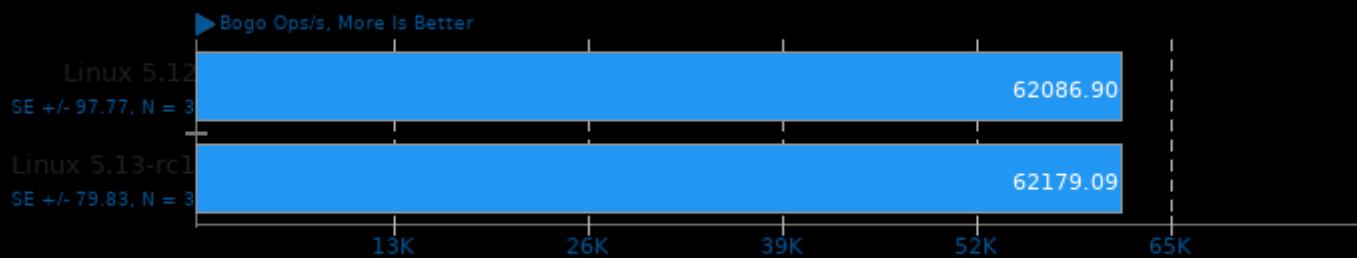
Test: Matrix Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

### Stress-NG 0.11.07

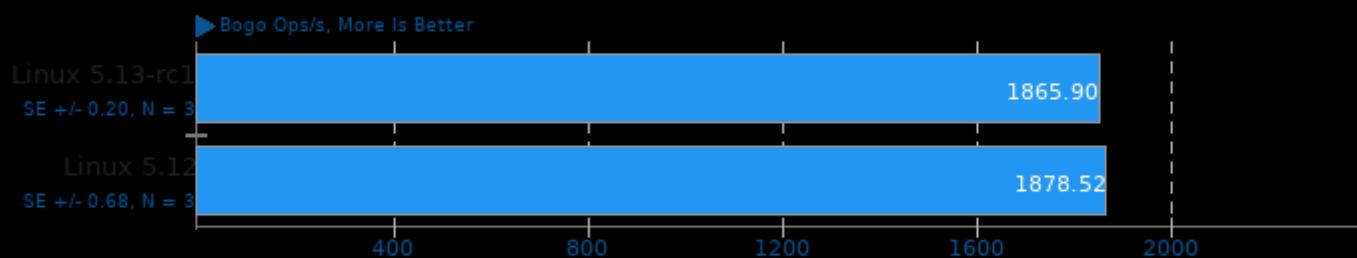
Test: Vector Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

### Stress-NG 0.11.07

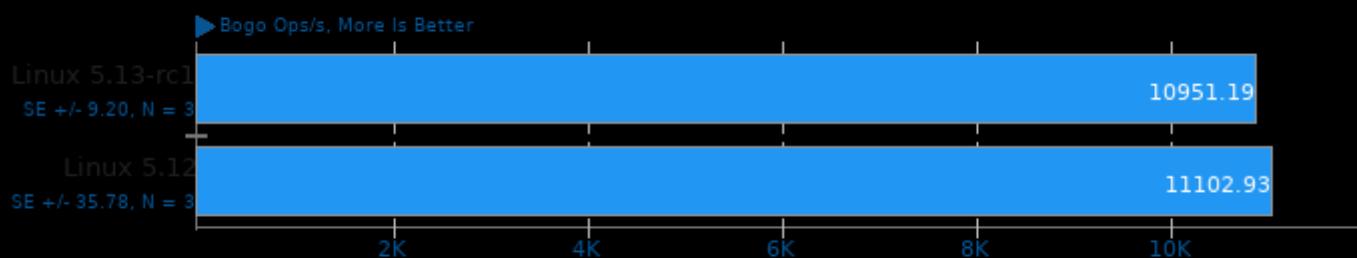
Test: Memory Copying



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

### Stress-NG 0.11.07

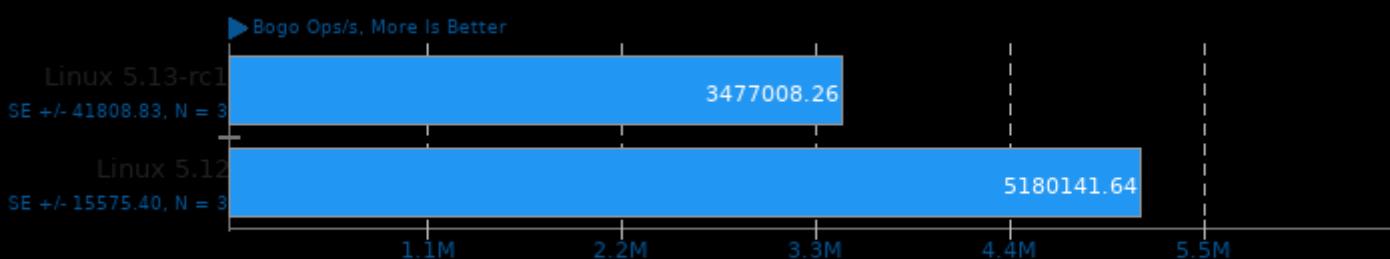
Test: Socket Activity



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

### Stress-NG 0.11.07

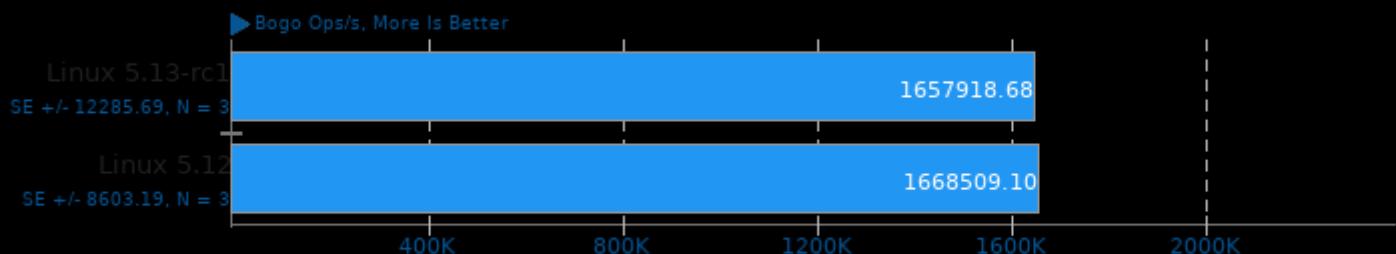
Test: Context Switching



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

## Stress-NG 0.11.07

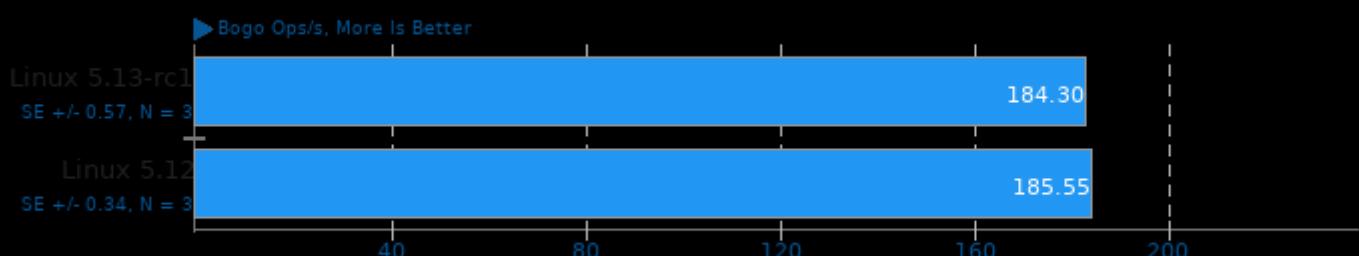
Test: Glibc C String Functions



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

## Stress-NG 0.11.07

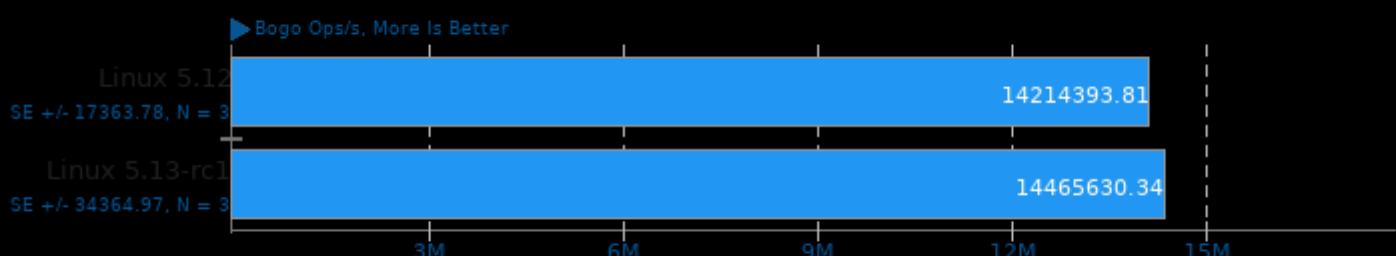
Test: Glibc Qsort Data Sorting



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

## Stress-NG 0.11.07

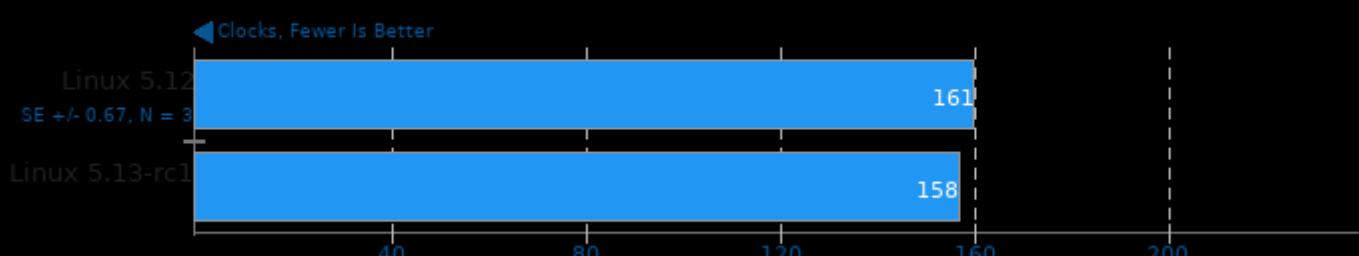
Test: System V Message Passing



1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

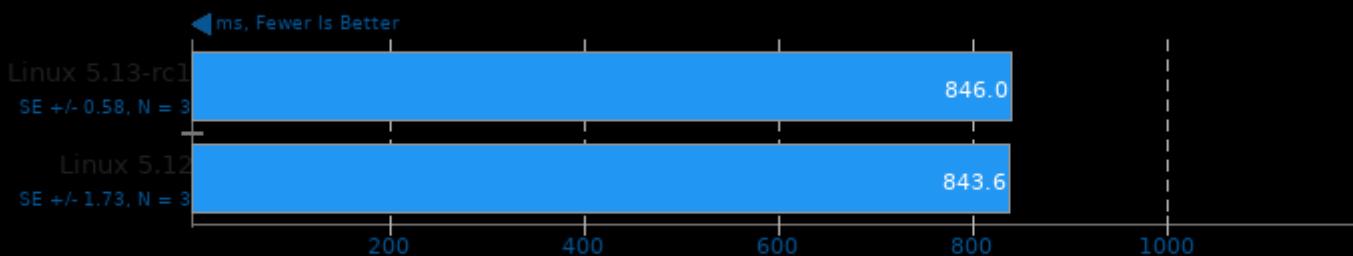
## ctx\_clock

Context Switch Time



## Selenium

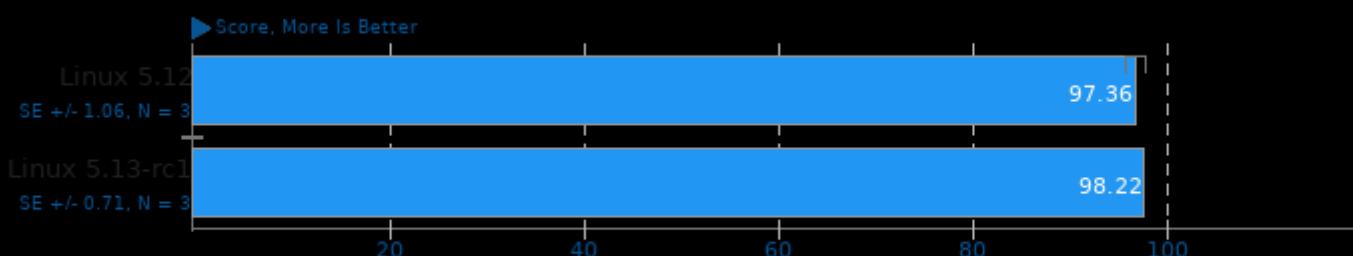
Benchmark: Kraken - Browser: Firefox



1. firefox 87.0

## Selenium

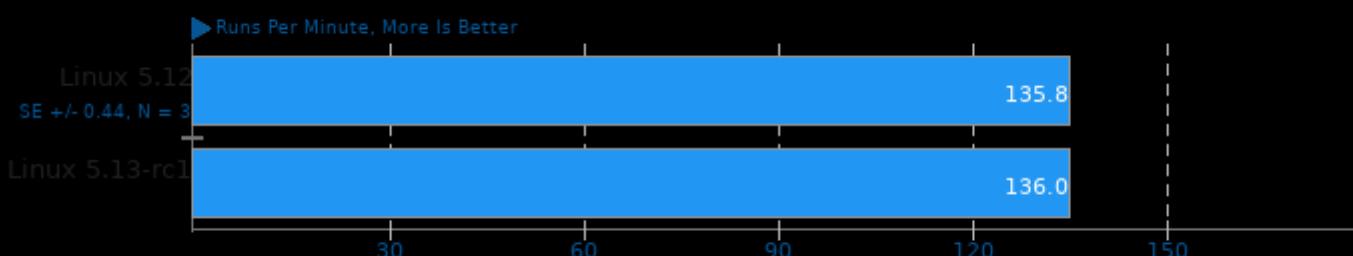
Benchmark: Jetstream 2 - Browser: Firefox



1. firefox 87.0

## Selenium

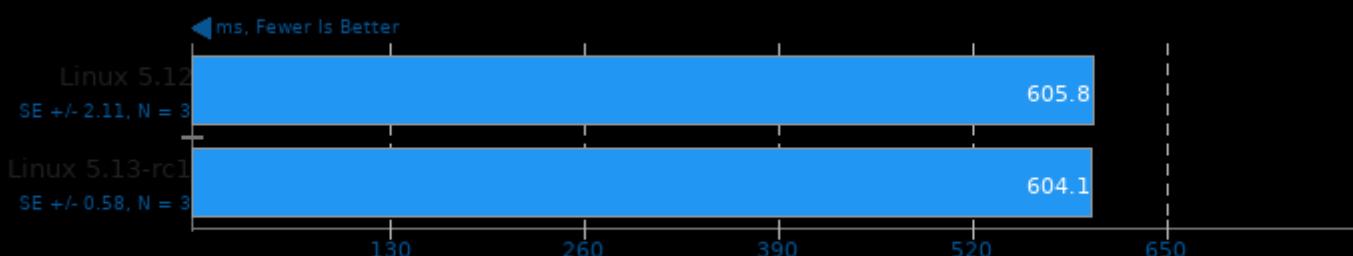
Benchmark: Speedometer - Browser: Firefox



1. firefox 87.0

## Selenium

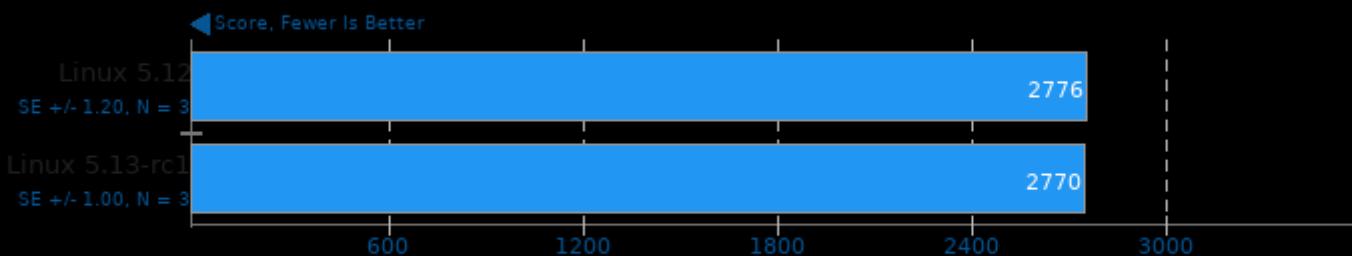
Benchmark: Kraken - Browser: Google Chrome



1. chrome 90.0.4430.72

## Selenium

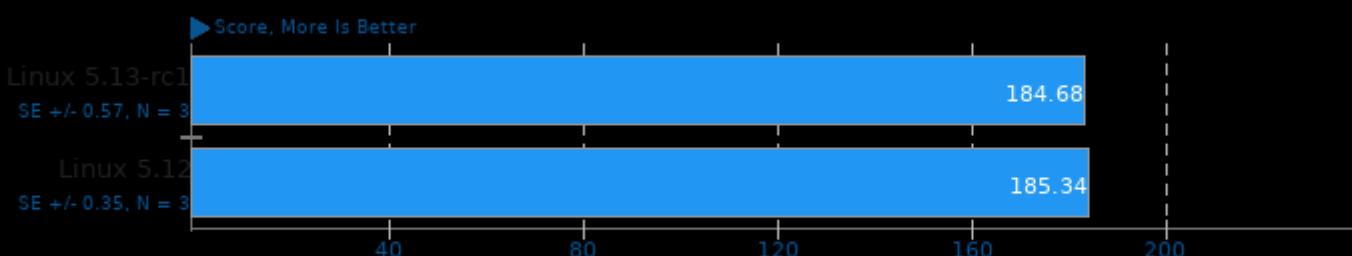
Benchmark: PSPDFKit WASM - Browser: Firefox



1. firefox 87.0

## Selenium

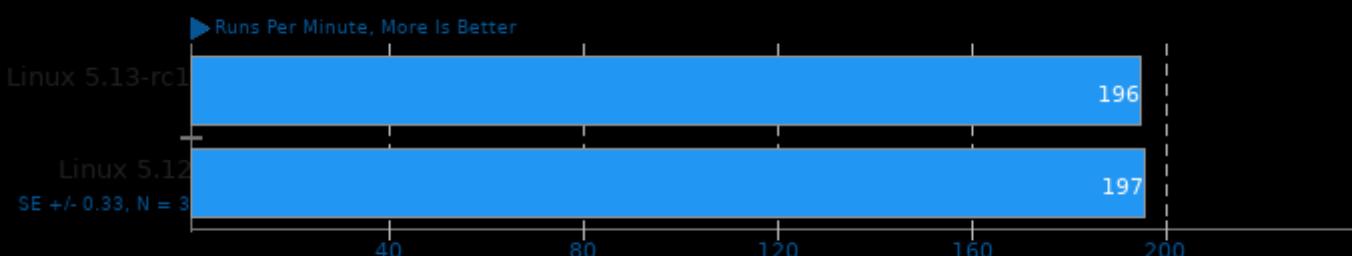
Benchmark: Jetstream 2 - Browser: Google Chrome



1. chrome 90.0.4430.72

## Selenium

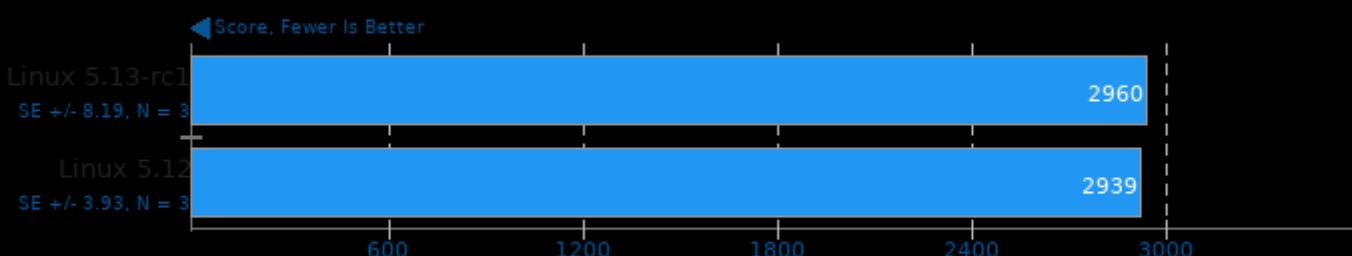
Benchmark: Speedometer - Browser: Google Chrome



1. chrome 90.0.4430.72

## Selenium

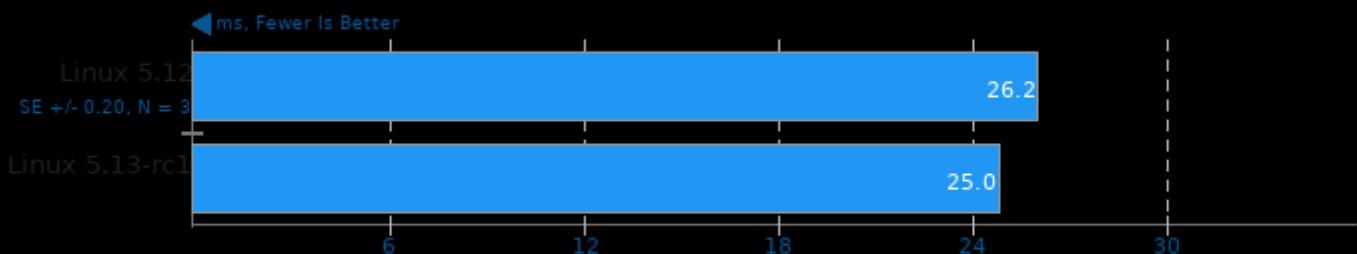
Benchmark: PSPDFKit WASM - Browser: Google Chrome



1. chrome 90.0.4430.72

## Selenium

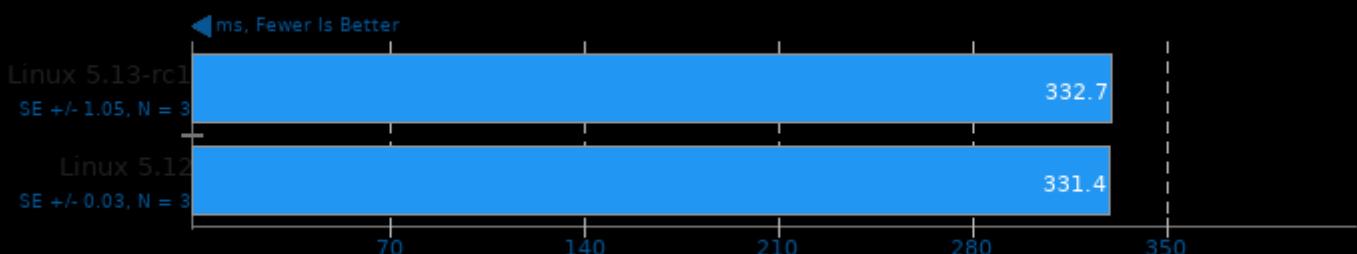
Benchmark: WASM imageConvolute - Browser: Firefox



1. firefox 87.0

## Selenium

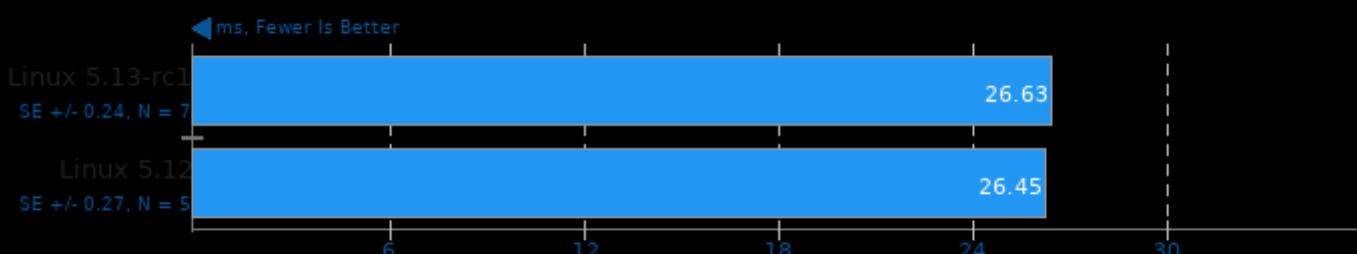
Benchmark: WASM collisionDetection - Browser: Firefox



1. firefox 87.0

## Selenium

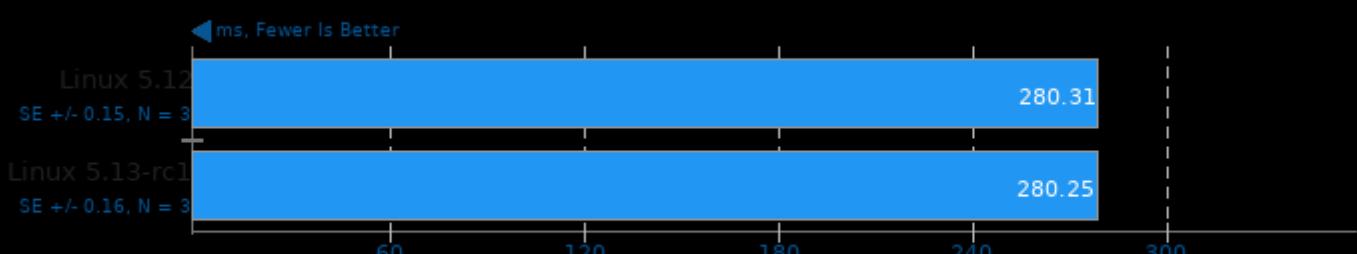
Benchmark: WASM imageConvolute - Browser: Google Chrome



1. chrome 90.0.4430.72

## Selenium

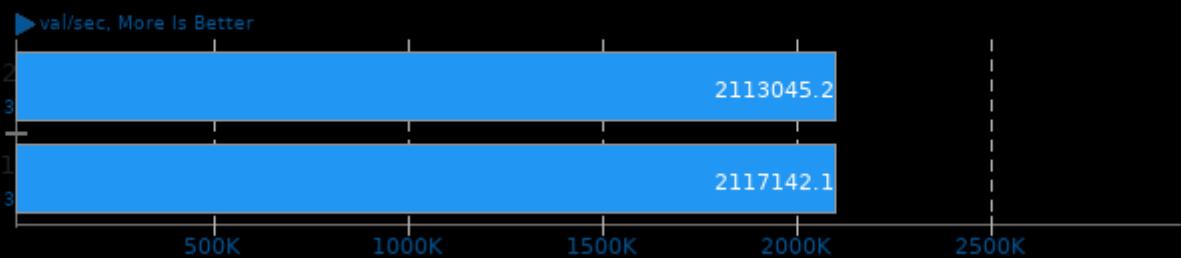
Benchmark: WASM collisionDetection - Browser: Google Chrome



1. chrome 90.0.4430.72

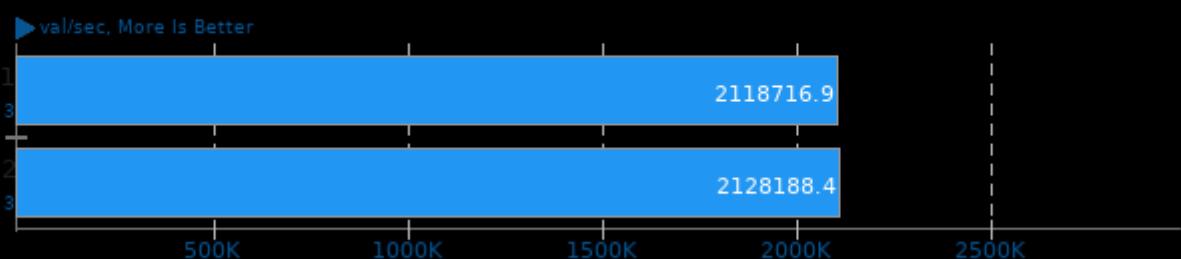
## InfluxDB 1.8.2

Concurrent Streams: 4 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000

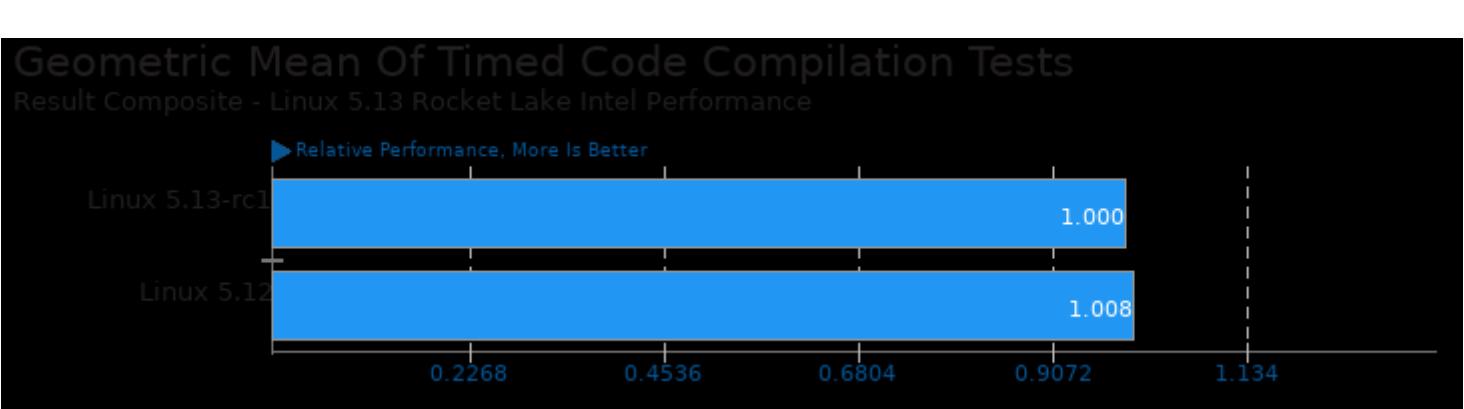
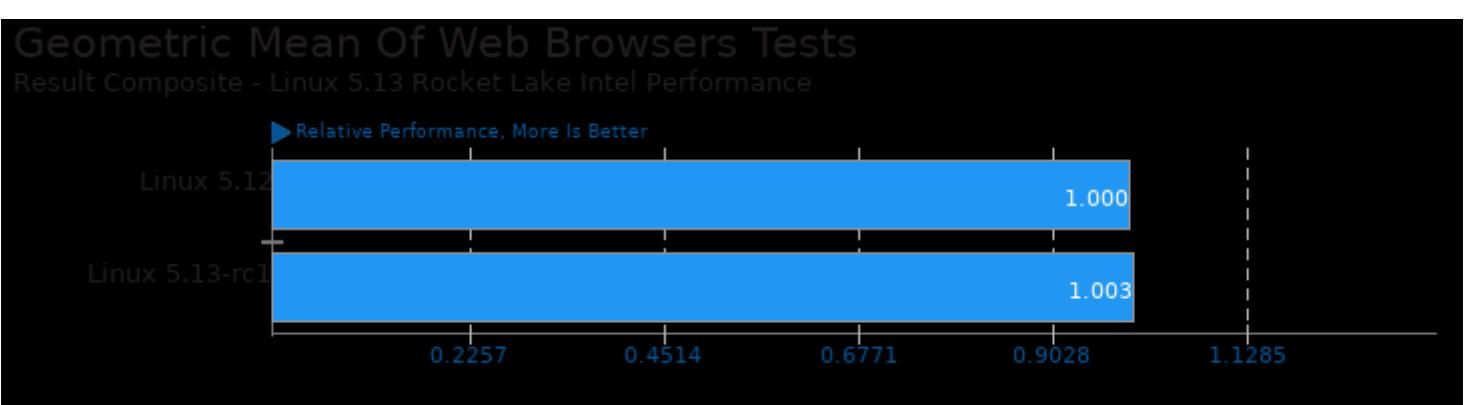
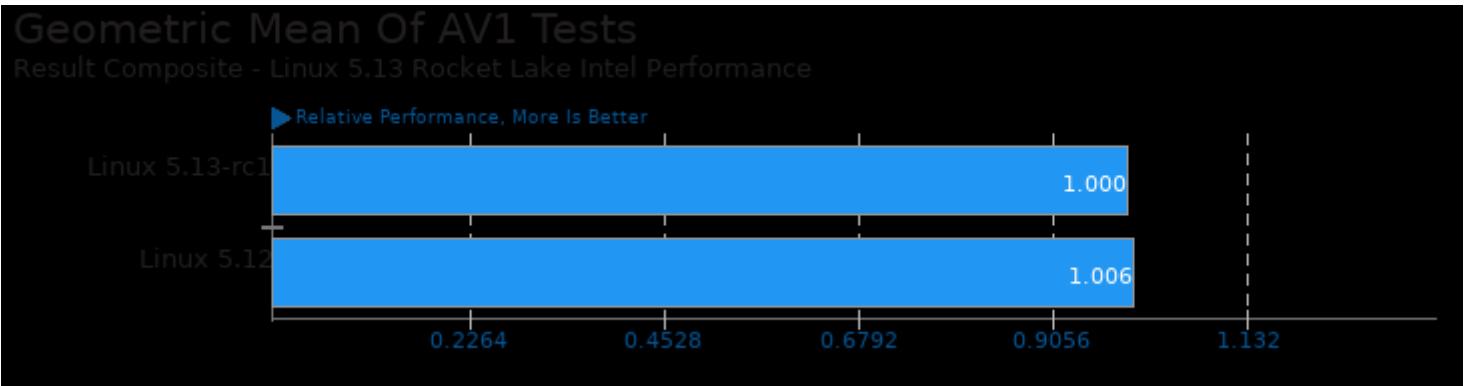


## InfluxDB 1.8.2

Concurrent Streams: 64 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000

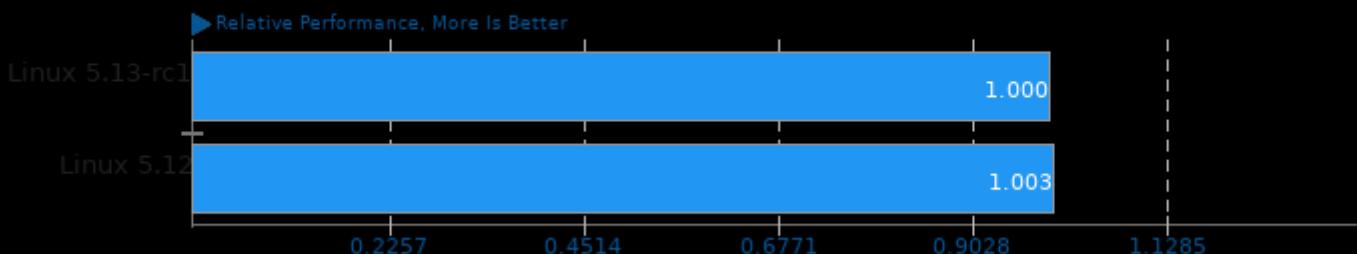


These geometric means are based upon test groupings / test suites for this result file.



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

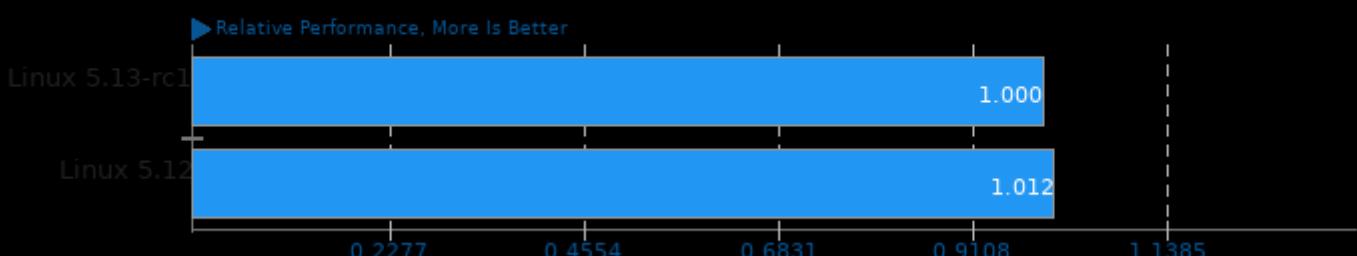
Result Composite - Linux 5.13 Rocket Lake Intel Performance



Geometric mean based upon tests: pts/stockfish, pts/build-llvm, pts/sqlite-speedtest, pts/libgav1, pts/svt-av1, pts/gromacs and pts/keydb

### Geometric Mean Of CPU Massive Tests

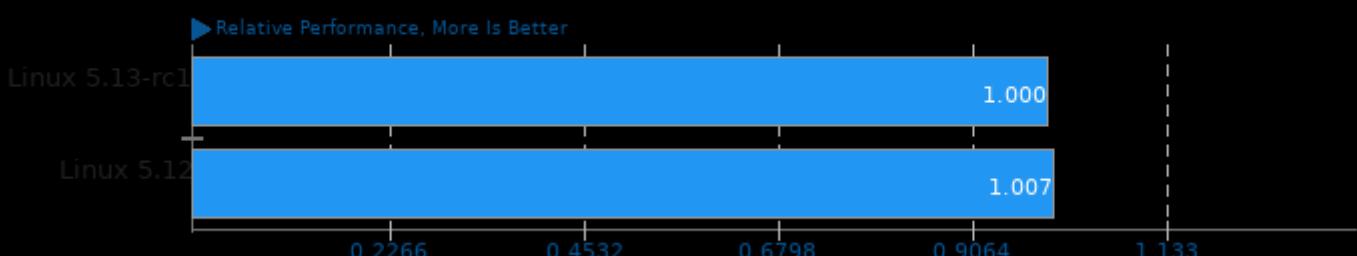
Result Composite - Linux 5.13 Rocket Lake Intel Performance



Geometric mean based upon tests: pts/build-llvm, pts/build-linux-kernel, pts/compilebench, pts/ctx-clock, pts/dacapobench, pts/svt-av1, pts/svt-hevc, pts/hackbench, pts/namd, pts/parboil, pts/rodinia, pts/stockfish, pts/stress-ng, system/cryptsetup and pts/renaissance

### Geometric Mean Of Creator Workloads Tests

Result Composite - Linux 5.13 Rocket Lake Intel Performance

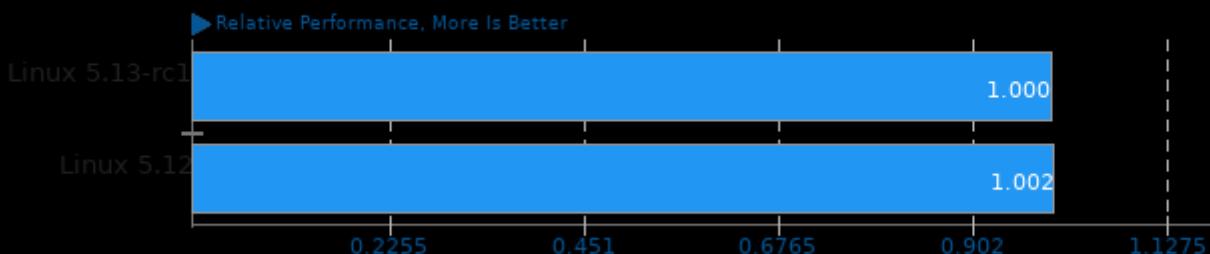


Geometric mean based upon tests: pts/svt-hevc, pts/svt-av1, pts/libgav1, pts/embree and pts/draco

## Linux 5.13 Rocket Lake Intel Performance

### Geometric Mean Of Cryptography Tests

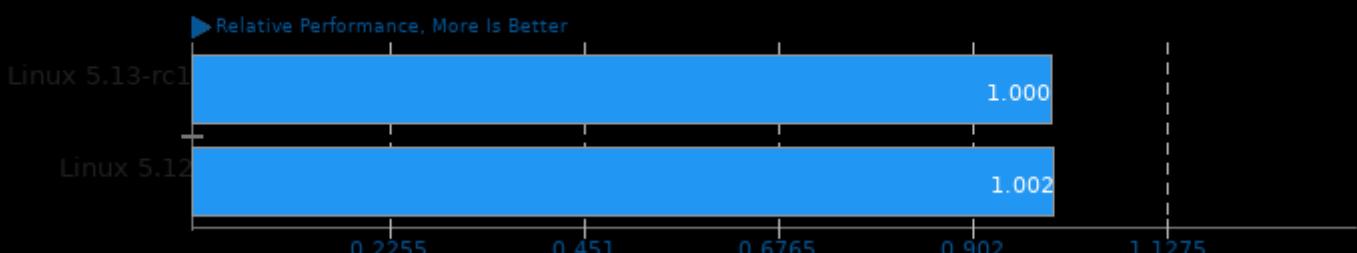
Result Composite - Linux 5.13 Rocket Lake Intel Performance



Geometric mean based upon tests: system/cryptsetup and pts/securemark

### Geometric Mean Of Database Test Suite

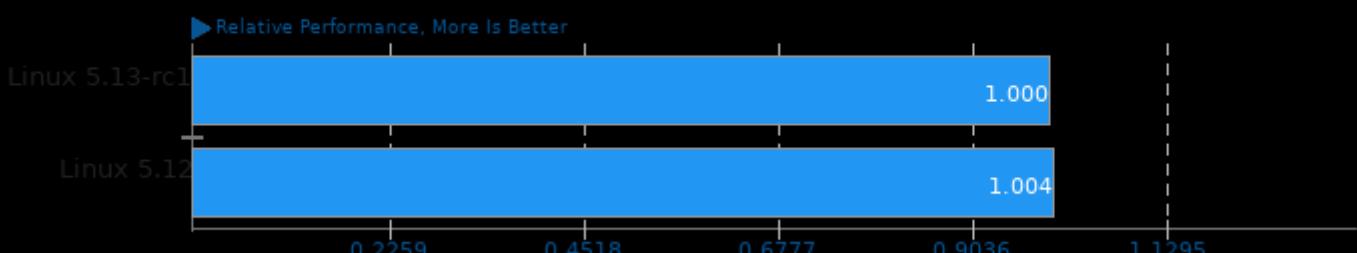
Result Composite - Linux 5.13 Rocket Lake Intel Performance



Geometric mean based upon tests: pts/sqlite-speedtest, pts/keydb and pts/influxdb

### Geometric Mean Of Desktop Graphics Tests

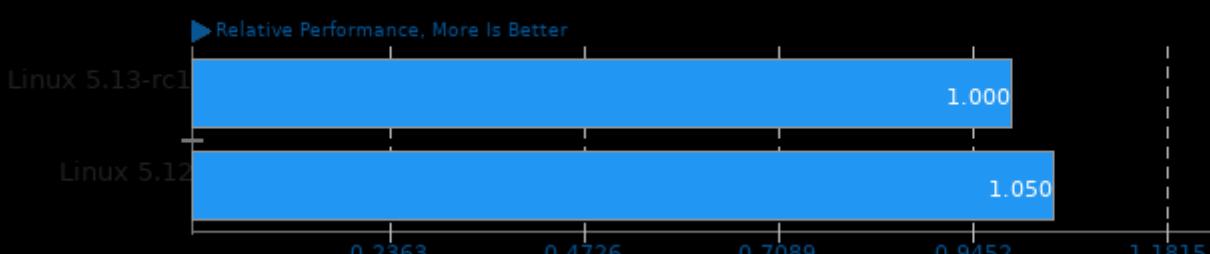
Result Composite - Linux 5.13 Rocket Lake Intel Performance



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

### Geometric Mean Of Disk Test Suite

Result Composite - Linux 5.13 Rocket Lake Intel Performance

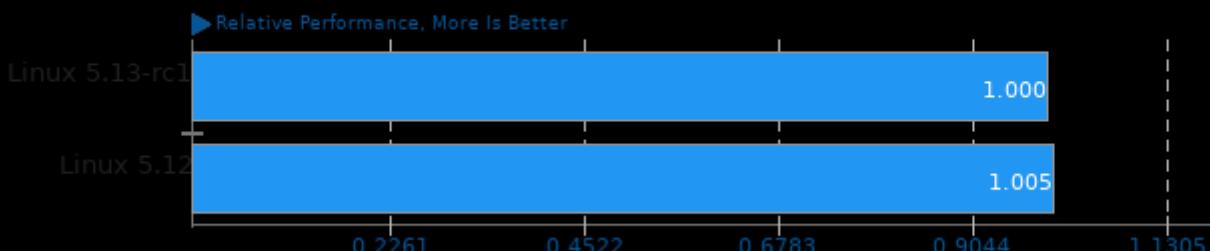


Geometric mean based upon tests: pts/fs-mark and pts/compilebench

## Linux 5.13 Rocket Lake Intel Performance

### Geometric Mean Of Encoding Tests

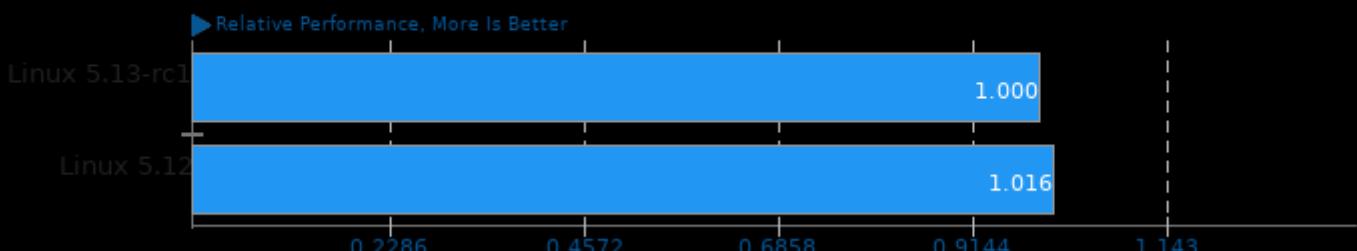
Result Composite - Linux 5.13 Rocket Lake Intel Performance



Geometric mean based upon tests: pts/svt-hevc, pts/svt-av1 and pts/libgav1

### Geometric Mean Of HPC - High Performance Computing Tests

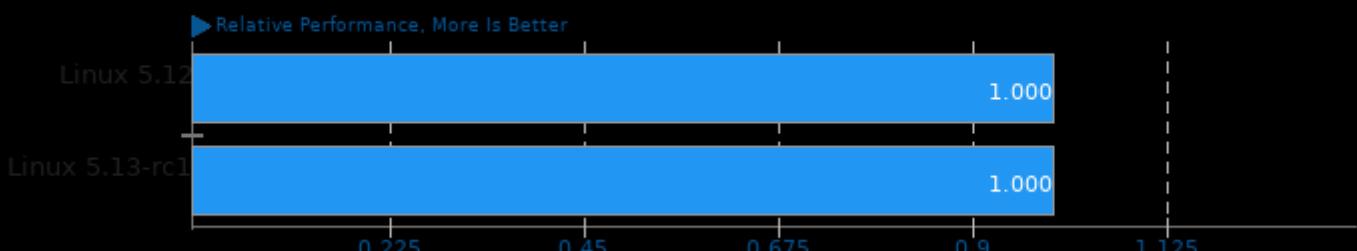
Result Composite - Linux 5.13 Rocket Lake Intel Performance



Geometric mean based upon tests: pts/rodinia, pts/parboil, pts/namd, pts/gromacs, pts/incompact3d and pts/qmcpack

### Geometric Mean Of Java Tests

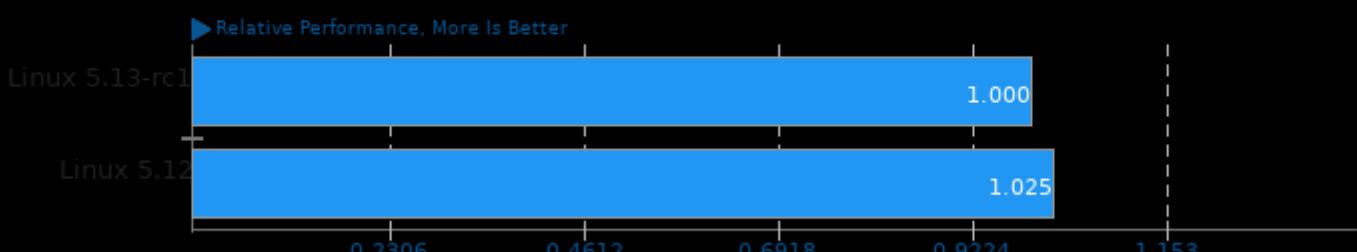
Result Composite - Linux 5.13 Rocket Lake Intel Performance



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

### Geometric Mean Of Common Kernel Benchmarks Tests

Result Composite - Linux 5.13 Rocket Lake Intel Performance

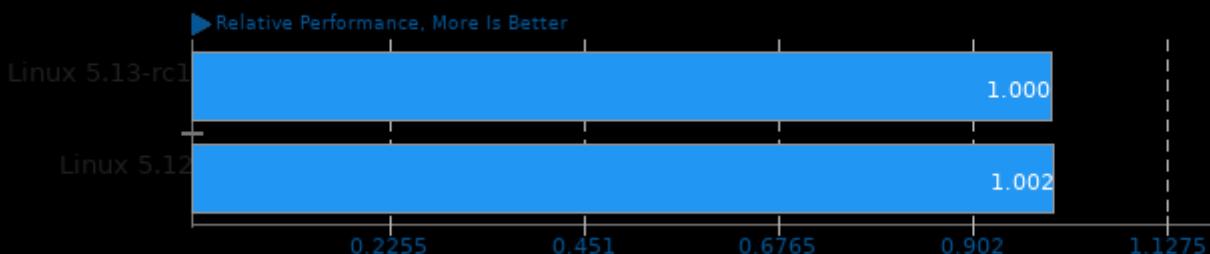


Geometric mean based upon tests: pts/sqlite-speedtest, pts/ctx-clock, pts/hackbench and pts/stress-ng

## Linux 5.13 Rocket Lake Intel Performance

### Geometric Mean Of Molecular Dynamics Tests

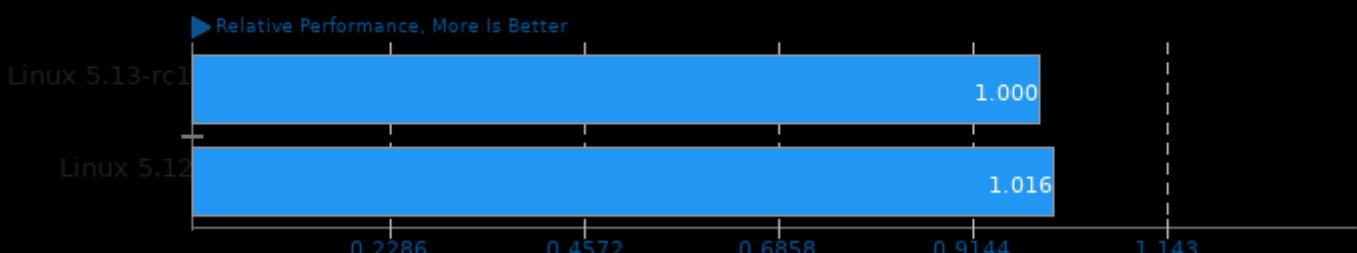
Result Composite - Linux 5.13 Rocket Lake Intel Performance



Geometric mean based upon tests: pts/namd, pts/gromacs and pts/incompact3d

### Geometric Mean Of MPI Benchmarks Tests

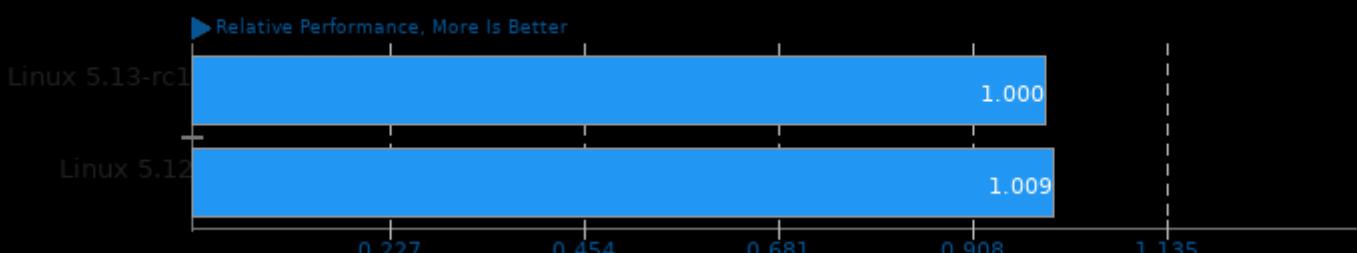
Result Composite - Linux 5.13 Rocket Lake Intel Performance



Geometric mean based upon tests: pts/incompact3d, pts/gromacs and pts/qmcpack

### Geometric Mean Of Multi-Core Tests

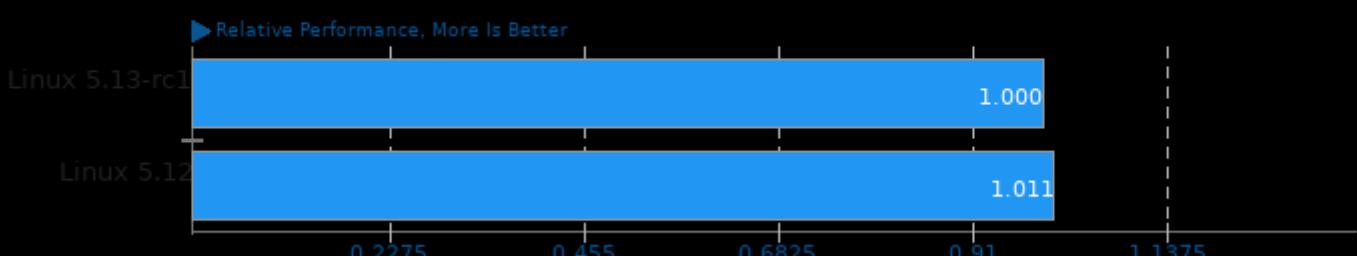
Result Composite - Linux 5.13 Rocket Lake Intel Performance



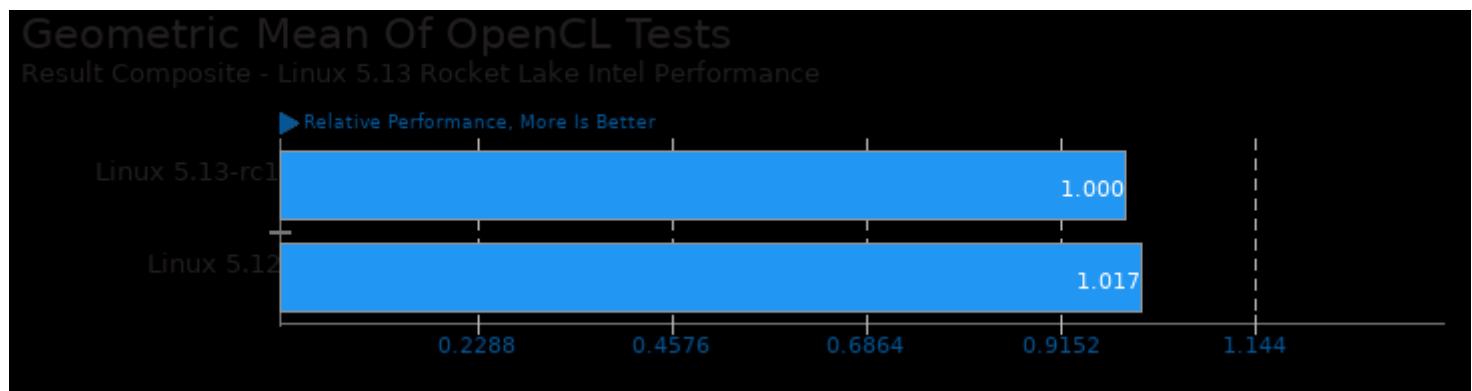
Geometric mean based upon tests: pts/stockfish, pts/svt-hevc, pts/svt-av1, pts/libgav1, pts/rodinia, pts/parboil, pts/namd, pts/gromacs, pts/build-linux-kernel, pts/build-llvm, pts/build-wasmer, pts/build-nodejs, pts/build-mesa and pts/embree

### Geometric Mean Of NVIDIA GPU Compute Tests

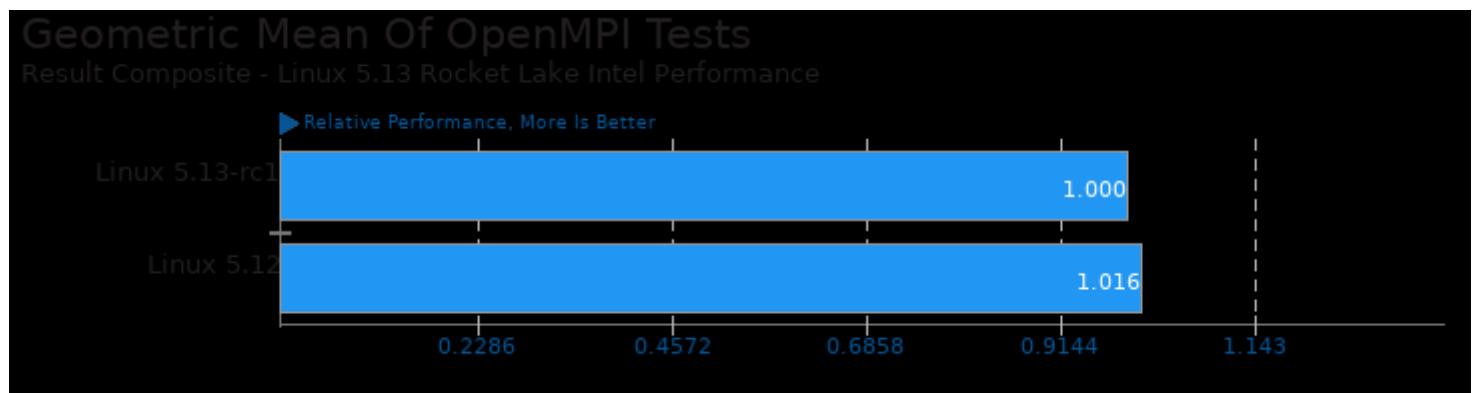
Result Composite - Linux 5.13 Rocket Lake Intel Performance



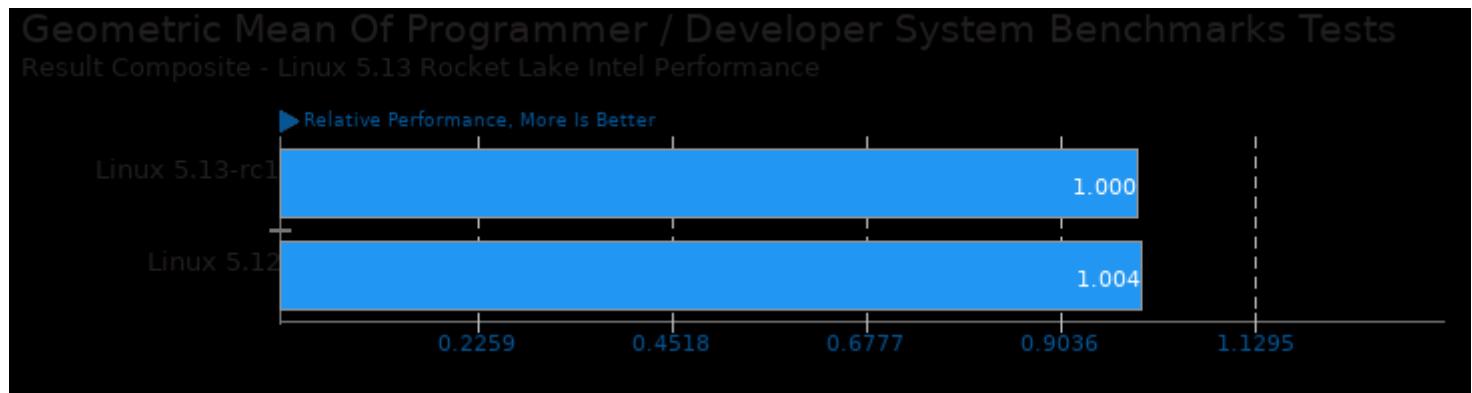
Geometric mean based upon tests: pts/gromacs, pts/rodrinia, pts/realsr-ncnn and pts/waifu2x-ncnn



Geometric mean based upon tests: pts/rodrinia and pts/parboil



Geometric mean based upon tests: pts/parboil, pts/rodrinia, pts/qmcpack, pts/incompact3d and pts/gromacs

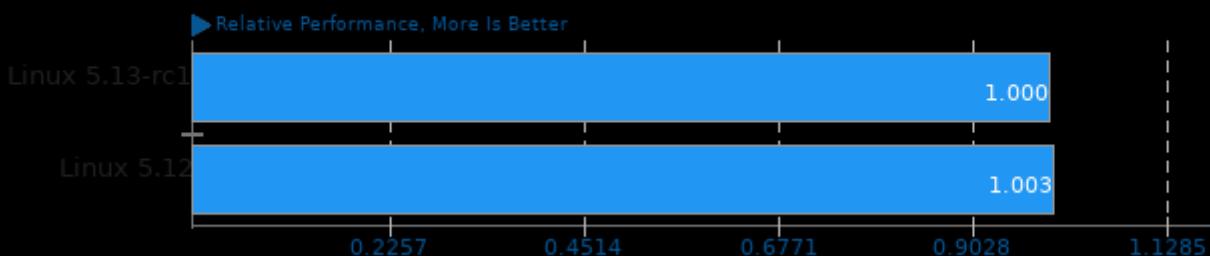


Geometric mean based upon tests: pts/sqlite-speedtest, system/cryptsetup, pts/build-linux-kernel, pts/build-llvm, pts/build-wasmer, pts/build-nodejs and pts/build-mesa

## Linux 5.13 Rocket Lake Intel Performance

### Geometric Mean Of Python Tests

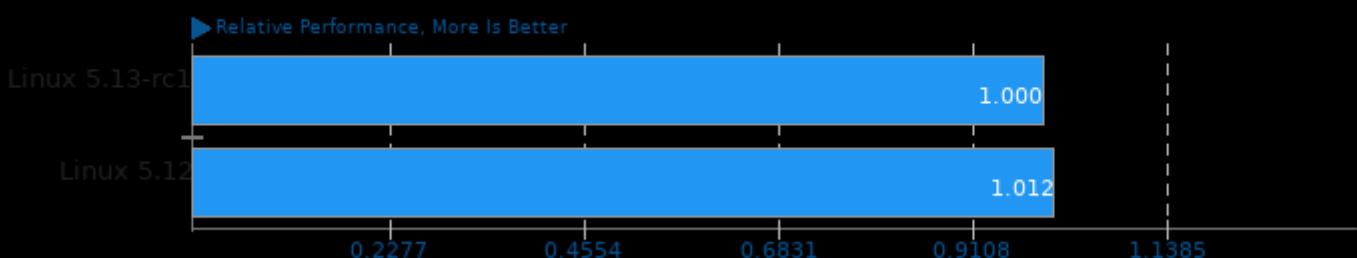
Result Composite - Linux 5.13 Rocket Lake Intel Performance



Geometric mean based upon tests: pts/compilebench, pts/paraview, pts/parboil, pts/build-llvm, pts/build-mesa, pts/build-nodejs and system/selenium

### Geometric Mean Of Scientific Computing Tests

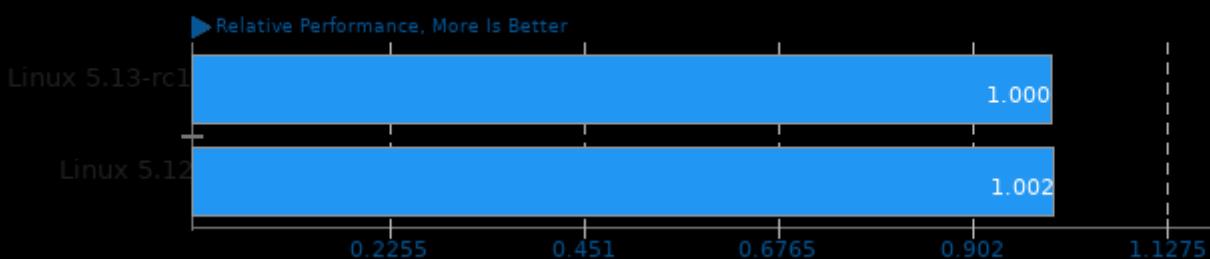
Result Composite - Linux 5.13 Rocket Lake Intel Performance



Geometric mean based upon tests: pts/namd, pts/gromacs, pts/incompact3d and pts/qmcpack

### Geometric Mean Of Server Tests

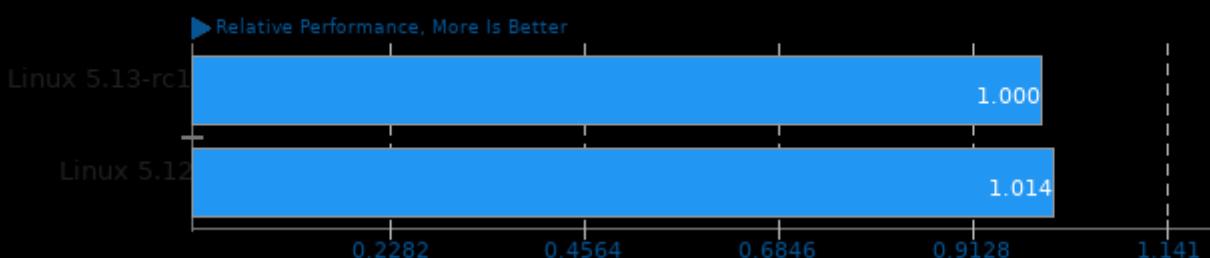
Result Composite - Linux 5.13 Rocket Lake Intel Performance



Geometric mean based upon tests: pts/keydb, pts/sqlite-speedtest and pts/influxdb

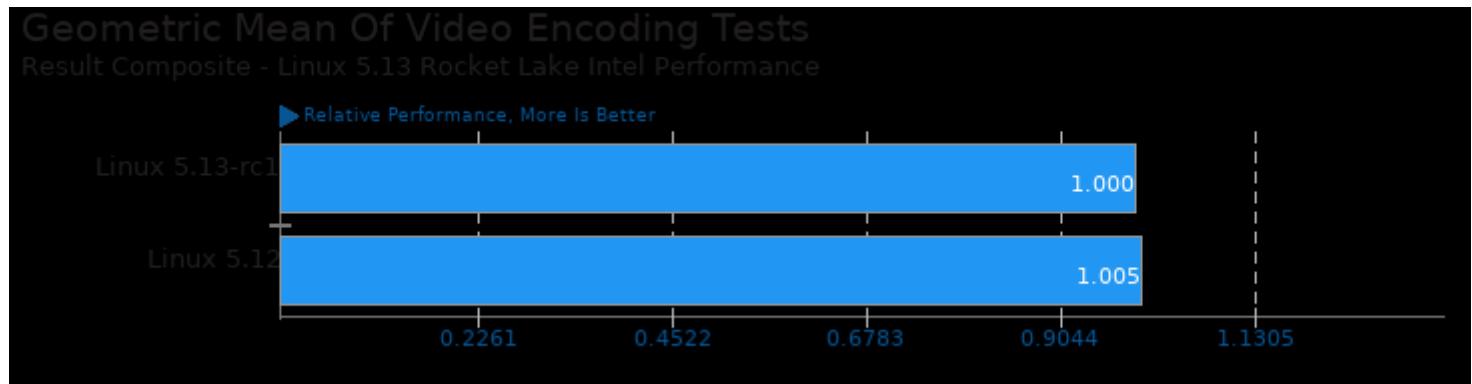
### Geometric Mean Of Server CPU Tests

Result Composite - Linux 5.13 Rocket Lake Intel Performance

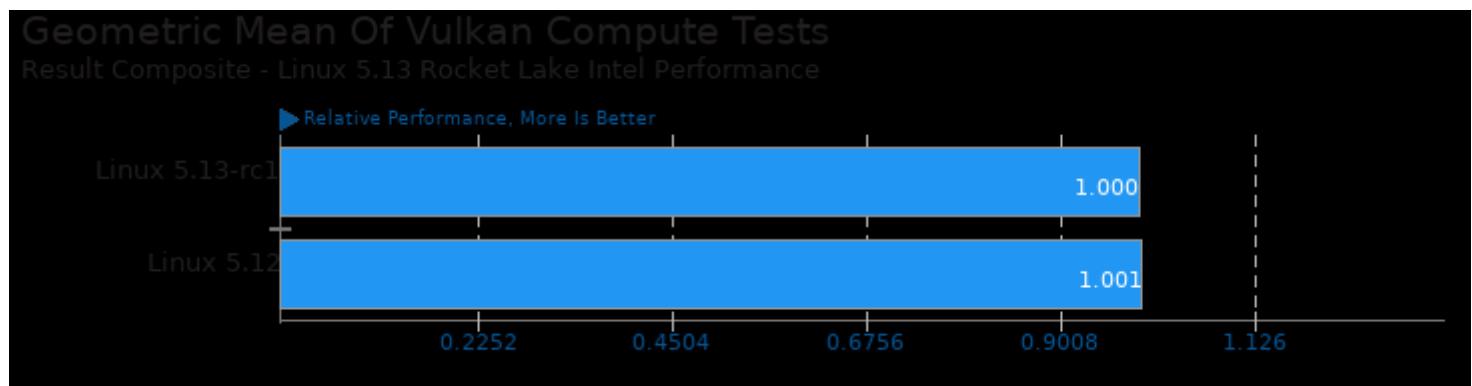


Geometric mean based upon tests: pts/rodinia, pts/namd, pts/dacapobench, pts/renaissance, pts/svt-av1, pts/svt-hevc,

pts/stockfish, pts/build-linux-kernel, pts/build-llvm, pts/hackbench, pts/stress-ng and pts/ctx-clock



Geometric mean based upon tests: pts/svt-hevc, pts/svt-av1 and pts/libgav1



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



Geometric mean based upon tests: pts/rodinia, pts/parboil and pts/paraview

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 11:16.*