



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,obj-c++,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,amdgc-n-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 + srbds: 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,obj-c++,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,amdgc-n-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 +
 srbds: Not affected + tsx_async_abort: Not affected

	Linux 5.12	Linux 5.13-rc1
Stress-NG - Context Switching (Bogo Ops/s)	5180142	3477008
Normalized	100%	67.12%
Standard Deviation	0.5%	2.1%
Stress-NG - NUMA (Bogo Ops/s)	333.69	262.23
Normalized	100%	78.58%
Standard Deviation	0.4%	0.7%
Stress-NG - MMAP (Bogo Ops/s)	239.10	260.95
Normalized	91.63%	100%
Standard Deviation	2.2%	0.3%
Stress-NG - CPU Cache (Bogo Ops/s)	20.79	19.27
Normalized	100%	92.69%
Standard Deviation	0.3%	4.4%
Parboil - OpenMP Stencil (sec)	14.337413	15.133391
Normalized	100%	94.74%
Standard Deviation	0.5%	1%
Selenium - W.i - Firefox (ms)	26.2	25
Normalized	95.42%	100%
Standard Deviation	1.3%	
QMCPACK - simple-H2O (Execution Time - sec)	21.655	22.586
Normalized	100%	95.88%
Standard Deviation	0.2%	5.3%
Stress-NG - SENDFILE (Bogo Ops/s)	218932	227760
Normalized	96.12%	100%
Standard Deviation	0.1%	0.1%
Rodinia - O.S (sec)	17.005	17.526
Normalized	100%	97.03%
Standard Deviation	0.1%	0.2%
Rodinia - OpenMP CFD Solver (sec)	21.332	21.898
Normalized	100%	97.42%
Standard Deviation	0.7%	0.6%
Google Draco - Church Facade (ms)	6138	6296
Normalized	100%	97.49%
Standard Deviation	0.2%	0.1%
Stress-NG - CPU Stress (Bogo Ops/s)	5138	5265
Normalized	97.58%	100%
Standard Deviation	0.4%	0.5%
ctx_clock - C.S.T (Clocks)	161	158
Normalized	98.14%	100%
Standard Deviation	0.7%	
Rodinia - OpenMP HotSpot3D (sec)	69.598	70.829
Normalized	100%	98.26%
Standard Deviation	0.1%	1.5%
Stress-NG - S.V.M.P (Bogo Ops/s)	14214394	14465630
Normalized	98.26%	100%
Standard Deviation	0.2%	0.4%
Google Draco - Lion (ms)	4097	4158
Normalized	100%	98.53%

	Standard Deviation	0.2%	0.4%
PJSIP - OPTIONS, Stateless (Responses/sec)		52400	53160
	Normalized	98.57%	100%
	Standard Deviation	0.4%	1%
Rodinia - OpenMP LavaMD (sec)		209.054	211.980
	Normalized	100%	98.62%
	Standard Deviation	1%	1.8%
PJSIP - INVITE (Responses/sec)		5096	5026
	Normalized	100%	98.63%
	Standard Deviation		0.1%
Stress-NG - Socket Activity (Bogo Ops/s)		11103	10951
	Normalized	100%	98.63%
	Standard Deviation	0.6%	0.1%
Renaissance - I.M.D.S (ms)		2275	2305
	Normalized	100%	98.7%
	Standard Deviation	1.4%	1.3%
Timed Wasmer Compilation - Time To Compile (sec)		83.588	84.669
	Normalized	100%	98.72%
	Standard Deviation	1.4%	1%
Embree - Pathtracer ISPC - Asian Dragon (FPS)		16.3329	16.1249
	Normalized	100%	98.73%
	Standard Deviation	1.4%	0.1%
ParaView - Wavelet Volume - 3840 x 2160 (Frames / Sec)		80.51	79.49
	Normalized	100%	98.73%
	Standard Deviation	2.1%	0.3%
ParaView - Wavelet Volume - 3840 x 2160 (MiVoxels / Sec)		1288	1272
	Normalized	100%	98.74%
	Standard Deviation	2.1%	0.3%
Renaissance - A.U.C.T (ms)		8613	8512
	Normalized	98.83%	100%
	Standard Deviation	4.6%	1.1%
Renaissance - Apache Spark ALS (ms)		1457	1474
	Normalized	100%	98.85%
	Standard Deviation	2.5%	2.4%
Tesseract - 3840 x 2160 (FPS)		490.2731	495.6977
	Normalized	98.91%	100%
	Standard Deviation	2.1%	1.9%
Hackbench - 16 - Process (sec)		36.202	36.582
	Normalized	100%	98.96%
	Standard Deviation	0.2%	0.1%
Stress-NG - Malloc (Bogo Ops/s)		65241387	64585585
	Normalized	100%	98.99%
	Standard Deviation	0.2%	0.3%
Parboil - OpenMP LBM (sec)		117.356031	118.523392
	Normalized	100%	99.02%
	Standard Deviation	0.1%	0.2%
DaCapo Benchmark - Jython (msec)		3139	3170
	Normalized	100%	99.02%
	Standard Deviation	2%	0.6%
Hackbench - 16 - Thread (sec)		37.105	37.467
	Normalized	100%	99.03%
	Standard Deviation	0.2%	0.2%
Timed Linux Kernel Compilation - Time To Compile		81.234	81.959
	Normalized	100%	99.12%

Linux 5.13 Rocket Lake Intel Performance

	Standard Deviation	2%	1.8%
Hackbench - 32 - Process (sec)		74.532	75.196
	Normalized	100%	99.12%
	Standard Deviation	0.2%	0.2%
Selenium - Jetstream 2 - Firefox (Score)		97.358	98.218
	Normalized	99.12%	100%
	Standard Deviation	1.9%	1.3%
Cryptsetup - A.X.2.E (MiB/s)		5434	5388
	Normalized	100%	99.15%
	Standard Deviation	0.3%	0.2%
Renaissance - A.S.P (ms)		3168	3141
	Normalized	99.15%	100%
	Standard Deviation	4.3%	4.1%
Renaissance - T.H.R (ms)		1504	1517
	Normalized	100%	99.17%
	Standard Deviation	1.3%	1.5%
Cryptsetup - A.X.2.D (MiB/s)		5437	5393
	Normalized	100%	99.19%
	Standard Deviation	0.1%	0.1%
Selenium - PSPDFKit WASM - Google Chrome (Score)		2939	2960
	Normalized	100%	99.29%
	Standard Deviation	0.2%	0.5%
Stress-NG - G.Q.D.S (Bogo Ops/s)		185.55	184.30
	Normalized	100%	99.33%
	Standard Deviation	0.3%	0.5%
Stress-NG - Forking (Bogo Ops/s)		90139	89532
	Normalized	100%	99.33%
	Standard Deviation	0.3%	0.6%
Stress-NG - Memory Copying (Bogo Ops/s)		1879	1866
	Normalized	100%	99.33%
	Standard Deviation	0.1%	0%
Selenium - W.i - Google Chrome (ms)		26.4541	26.6302
	Normalized	100%	99.34%
	Standard Deviation	2.3%	2.4%
Embree - Pathtracer - Asian Dragon (FPS)		13.7215	13.8122
	Normalized	99.34%	100%
	Standard Deviation	0.9%	1.3%
Timed Mesa Compilation - Time To Compile (sec)		49.121	49.444
	Normalized	100%	99.35%
	Standard Deviation	0.1%	0.3%
Timed LLVM Compilation - Ninja (sec)		686.374	690.824
	Normalized	100%	99.36%
	Standard Deviation	0%	0%
Embree - Pathtracer - Crown (FPS)		12.4797	12.4001
	Normalized	100%	99.36%
	Standard Deviation	0.5%	0.4%
Stress-NG - G.C.S.F (Bogo Ops/s)		1668509	1657919
	Normalized	100%	99.37%
	Standard Deviation	0.9%	1.3%
Xonotic - 3840 x 2160 - Ultimate (FPS)		341.3121519	339.1733898
	Normalized	100%	99.37%
	Standard Deviation	0%	0.5%
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%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	18.640	18.527
Normalized	100%	99.39%
Standard Deviation	0.5%	0.3%
Stress-NG - Matrix Math (Bogo Ops/s)	56921	57267
Normalized	99.4%	100%
Standard Deviation	0.5%	0.2%
Timed Node.js Compilation - Time To Compile (sec)	458.153	460.876
Normalized	100%	99.41%
Standard Deviation	0.1%	0.1%
Renaissance - Scala Dotty (ms)	1229	1236
Normalized	100%	99.42%
Standard Deviation	0.5%	0.4%
SQLite Speedtest - Timed Time - Size 1,000 (sec)	45.882	46.144
Normalized	100%	99.43%
Standard Deviation	0.1%	0.1%
Embree - Pathtracer - Asian Dragon Obj (FPS)	12.6503	12.5801
Normalized	100%	99.45%
Standard Deviation	0.8%	0.3%
SVT-HEVC - 7 - Bosphorus 1080p (FPS)	135.94	135.19
Normalized	100%	99.45%
Standard Deviation	1.1%	1%
Cryptsetup - A.X.5.E (MiB/s)	4828	4802
Normalized	100%	99.46%
Standard Deviation	0.2%	0.2%
Cryptsetup - A.X.5.D (MiB/s)	4808	4782
Normalized	100%	99.47%
Standard Deviation	0.1%	0.2%
Xonotic - 3840 x 2160 - Ultra (FPS)	428.0499102	425.8201452
Normalized	100%	99.48%
Standard Deviation	0.4%	0.4%
Selenium - Speedometer - Google Chrome (Runs/min)	197	196
Normalized	100%	99.49%
Standard Deviation	0.3%	
FS-Mark - 1.F.1.S (Files/s)	528.0	525.4
Normalized	100%	99.51%
Standard Deviation	2.9%	2.4%
InfluxDB - 64 - 10000 - 2,5000,1 - 10000 (val/sec)	2128188	2118717
Normalized	100%	99.55%
Standard Deviation	0.8%	0.5%
Parboil - O.M.G (sec)	44.817690	44.622145
Normalized	99.56%	100%
Standard Deviation	5.2%	4.8%
Embree - Pathtracer ISPC - Asian Dragon Obj (FPS)	14.2957	14.2343
Normalized	100%	99.57%
Standard Deviation	0.6%	0.2%
Selenium - W.c - Firefox (ms)	331.4	332.7
Normalized	100%	99.61%
Standard Deviation	0%	0.5%
Compile Bench - Initial Create (MB/s)	821.95	818.86
Normalized	100%	99.62%
Standard Deviation	1.7%	0.9%
Cryptsetup - T.X.2.E (MiB/s)	487.1	488.9

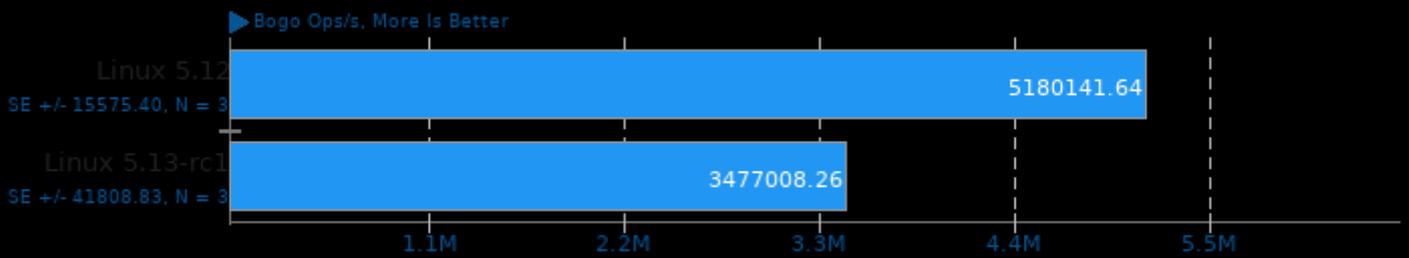
	Normalized	99.63%	100%
	Standard Deviation	0.3%	0.3%
Selenium - Jetstream 2 - Google Chrome (Score)		185.335	184.680
	Normalized	100%	99.65%
	Standard Deviation	0.3%	0.5%
Stress-NG - Semaphores (Bogo Ops/s)		1166457	1162424
	Normalized	100%	99.65%
	Standard Deviation	0.1%	0%
ParaView - Wavelet Contour - 3840 x 2160 (MiPolys / Sec)		2852	2843
	Normalized	100%	99.68%
	Standard Deviation	0%	0.3%
ParaView - Wavelet Contour - 3840 x 2160 (Frames / Sec)		273.72	272.85
	Normalized	100%	99.68%
	Standard Deviation	0%	0.3%
Embree - Pathtracer ISPC - Crown (FPS)		14.6221	14.5769
	Normalized	100%	99.69%
	Standard Deviation	0.3%	0.4%
Cryptsetup - T.X.5.E (MiB/s)		488.1	489.6
	Normalized	99.69%	100%
	Standard Deviation		0.1%
Selenium - Kraken - Firefox (ms)		843.6	846.0
	Normalized	100%	99.72%
	Standard Deviation	0.4%	0.1%
Selenium - Kraken - Google Chrome (ms)		605.8	604.1
	Normalized	99.72%	100%
	Standard Deviation	0.6%	0.2%
Parboil - OpenMP CUTCP (sec)		3.424596	3.434095
	Normalized	100%	99.72%
	Standard Deviation	0.5%	1.1%
Cryptsetup - PBKDF2-sha512 (Iterations/sec)		2079134	2073658
	Normalized	100%	99.74%
	Standard Deviation	0.1%	0.2%
RealSR-NCNN - 4x - Yes (sec)		40.230	40.334
	Normalized	100%	99.74%
	Standard Deviation	0%	0.1%
ParaView - Many Spheres - 3840 x 2160 (Frames / Sec)		43.35	43.24
	Normalized	100%	99.75%
	Standard Deviation	0%	0%
ParaView - Many Spheres - 3840 x 2160 (MiPolys / Sec)		4346	4335
	Normalized	100%	99.76%
	Standard Deviation	0%	0%
SVT-HEVC - 10 - Bosphorus 1080p (FPS)		269.06	268.46
	Normalized	100%	99.78%
	Standard Deviation	0.4%	0.1%
Renaissance - Rand Forest (ms)		1231	1233
	Normalized	100%	99.78%
	Standard Deviation	1.6%	1.2%
Selenium - PSPDFKit WASM - Firefox (Score)		2776	2770
	Normalized	99.78%	100%
	Standard Deviation	0.1%	0.1%
Cryptsetup - S.X.2.E (MiB/s)		774.6	773.0
	Normalized	100%	99.79%
	Standard Deviation	0.3%	0.3%

InfluxDB - 4 - 10000 - 2,5000,1 - 10000 (val/sec)	2113045	2117142
Normalized	99.81%	100%
Standard Deviation	0.2%	0.4%
DaCapo Benchmark - Tradebeans (msec)	2133	2137
Normalized	100%	99.81%
Standard Deviation	1.7%	4.2%
Cryptsetup - S.X.5.D (MiB/s)	730.7	729.4
Normalized	100%	99.82%
Standard Deviation	0.1%	0.1%
Stress-NG - MEMFD (Bogo Ops/s)	927.34	928.92
Normalized	99.83%	100%
Standard Deviation	0.3%	0.1%
Stress-NG - Atomic (Bogo Ops/s)	360169	359621
Normalized	100%	99.85%
Standard Deviation	2.8%	2.5%
Stress-NG - Vector Math (Bogo Ops/s)	62087	62179
Normalized	99.85%	100%
Standard Deviation	0.3%	0.2%
Selenium - Speedometer - Firefox (Runs/min)	135.8	136
Normalized	99.85%	100%
Standard Deviation	0.6%	
Stress-NG - Crypto (Bogo Ops/s)	2200	2197
Normalized	100%	99.88%
Standard Deviation	0%	0.1%
Cryptsetup - S.X.5.E (MiB/s)	775.9	775.0
Normalized	100%	99.88%
Standard Deviation	0%	0.1%
Cryptsetup - S.X.2.D (MiB/s)	730.6	729.8
Normalized	100%	99.89%
Standard Deviation	0%	0.1%
Cryptsetup - T.X.5.D (MiB/s)	488.3	487.8
Normalized	100%	99.9%
Standard Deviation	0.1%	0%
Stockfish - Total Time (Nodes/s)	28671461	28644083
Normalized	100%	99.9%
Standard Deviation	2.4%	0.9%
DaCapo Benchmark - Tradesoap (msec)	3195	3192
Normalized	99.91%	100%
Standard Deviation	1.6%	1.7%
KeyDB (Ops/sec)	993090	994001
Normalized	99.91%	100%
Standard Deviation	0.9%	0.3%
Waifu2x-NCNN Vulkan - 2x - 3 - Yes (sec)	5.859	5.854
Normalized	99.91%	100%
Standard Deviation	0.1%	0.3%
Cryptsetup - T.X.2.D (MiB/s)	488.3	488.0
Normalized	100%	99.94%
Standard Deviation	0.1%	0%
Rodinia - OpenMP Leukocyte (sec)	104.199	104.142
Normalized	99.95%	100%
Standard Deviation	0.5%	0.9%
Cryptsetup - PBKDF2-whirlpool (Iterations/sec)	851577	851118
Normalized	100%	99.95%
Standard Deviation	0.1%	0.2%
Stress-NG - RdRand (Bogo Ops/s)	78124	78162

	Normalized	99.95%	100%
	Standard Deviation	0%	0%
SecureMark - SecureMark-TLS (marks)		318050	317898
	Normalized	100%	99.95%
	Standard Deviation	0%	0%
NAMD - ATPase Simulation - 327,506 Atoms (days/ns)		1.30071	1.30108
	Normalized	100%	99.97%
	Standard Deviation	0.1%	0.7%
Selenium - W.c - Google Chrome (ms)		280.3130	280.253
	Normalized	99.98%	100%
	Standard Deviation	0.1%	0.1%
GROMACS - water_GMX50_bare (Ns/Day)		1.012	1.012
	Standard Deviation	0.7%	0.4%
Renaissance - G.A.U.J.F (ms)		1179	1142
	Normalized	96.91%	100%
	Standard Deviation	16.4%	4%
Renaissance - Savina Reactors.IO (ms)		11968	10896
	Normalized	91.05%	100%
	Standard Deviation	2.5%	6.6%
Renaissance - Apache Spark Bayes (ms)		149.000	154.887
	Normalized	100%	96.2%
	Standard Deviation	5.6%	6.5%
DaCapo Benchmark - H2 (msec)		2575	2663
	Normalized	100%	96.7%
	Standard Deviation	6.9%	9.4%
FS-Mark - 4.F.3.S.D.1.S (Files/s)		328.6	316.1
	Normalized	100%	96.2%
	Standard Deviation	23.4%	14.2%
FS-Mark - 5.F.1.S.4.T (Files/s)		547.5	472.9
	Normalized	100%	86.37%
	Standard Deviation	3.9%	10.3%

Stress-NG 0.11.07

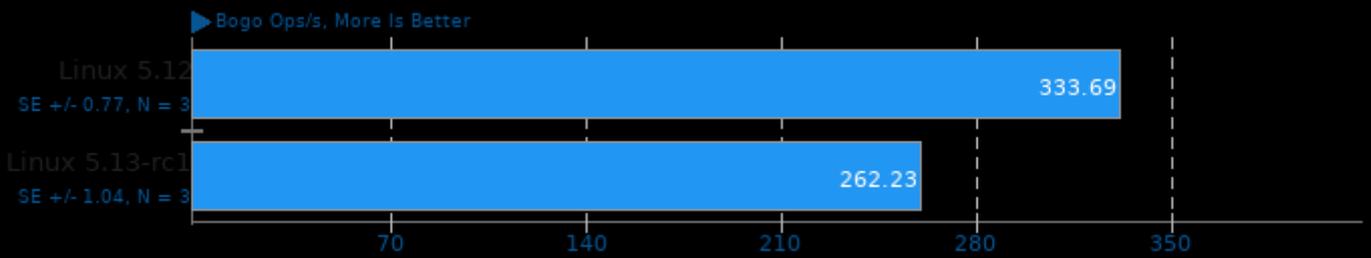
Test: Context Switching



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

Stress-NG 0.11.07

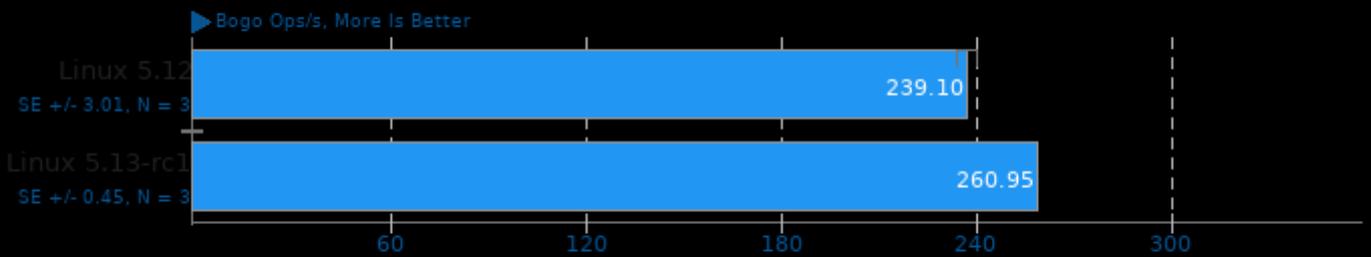
Test: NUMA



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

Stress-NG 0.11.07

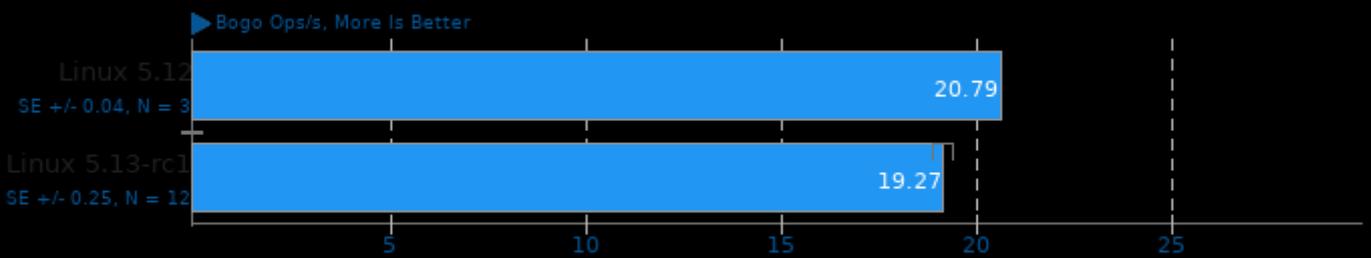
Test: MMAP



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

Stress-NG 0.11.07

Test: CPU Cache

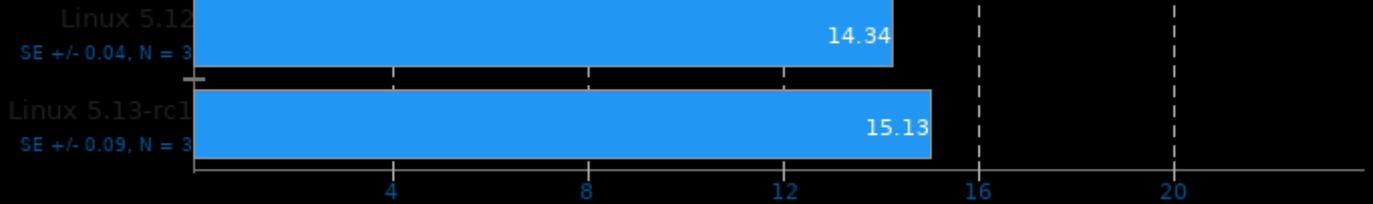


1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

Parboil 2.5

Test: OpenMP Stencil

← Seconds, Fewer Is Better

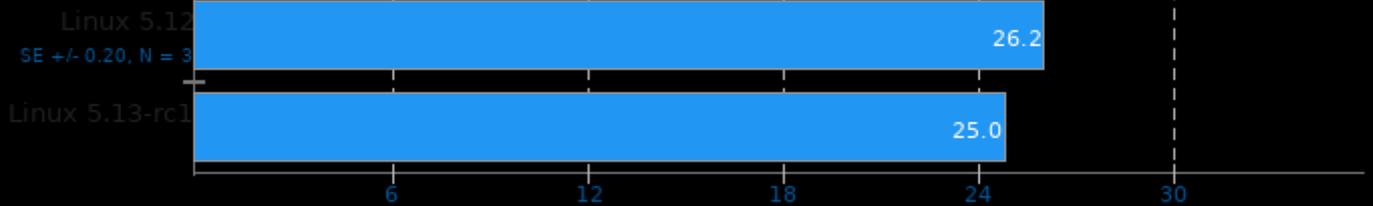


1. (CXX) g++ options: -lm -lpthread -lgomp -O3 -ffast-math -fopenmp

Selenium

Benchmark: WASM imageConvolute - Browser: Firefox

← ms, Fewer Is Better

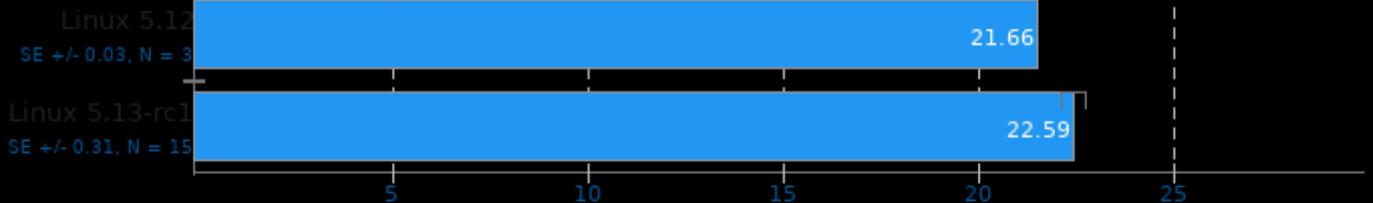


1. firefox 87.0

QMCPACK 3.11

Input: simple-H2O

← Total Execution Time - Seconds, Fewer Is Better

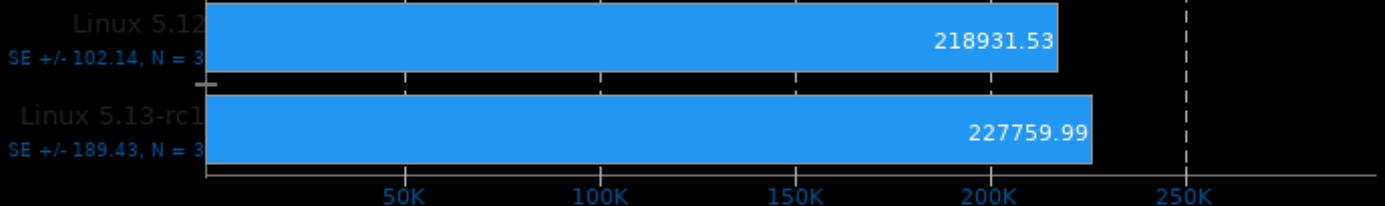


1. (CXX) g++ options: -fopenmp -finline-limit=1000 -fstrict-aliasing -funroll-all-loops -march=native -O3 -fomit-frame-pointer -ffast-math -pthread -lm

Stress-NG 0.11.07

Test: SENDFILE

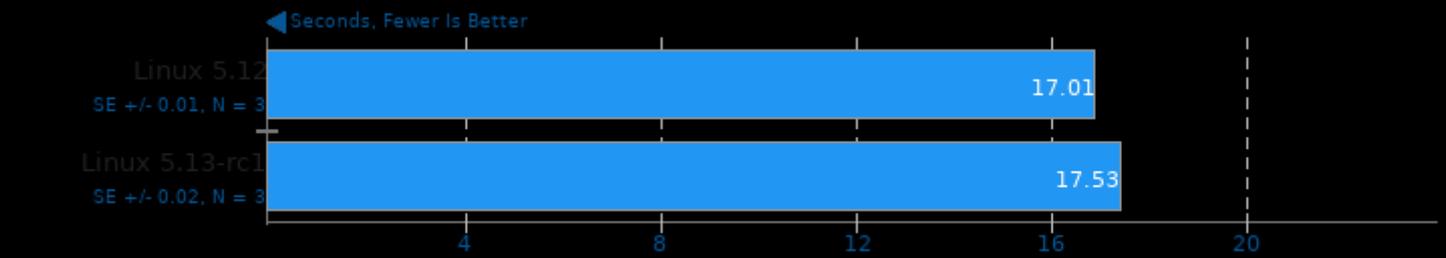
▶ Bogo Ops/s, More Is Better



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

Rodinia 3.1

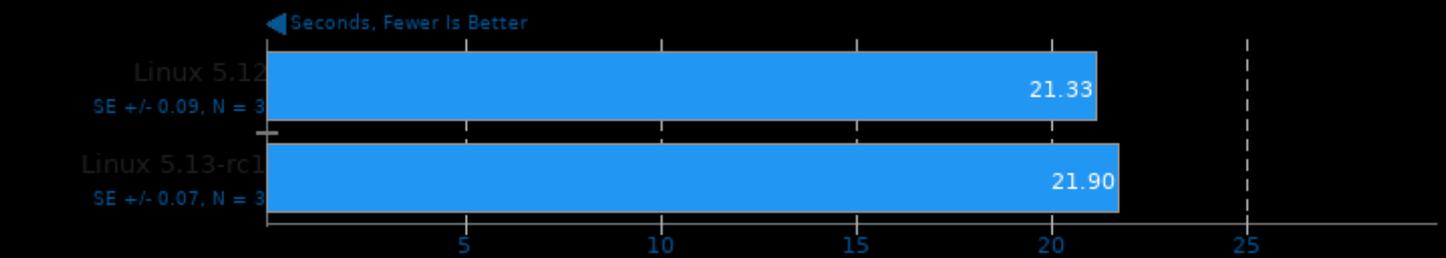
Test: OpenMP Streamcluster



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

Rodinia 3.1

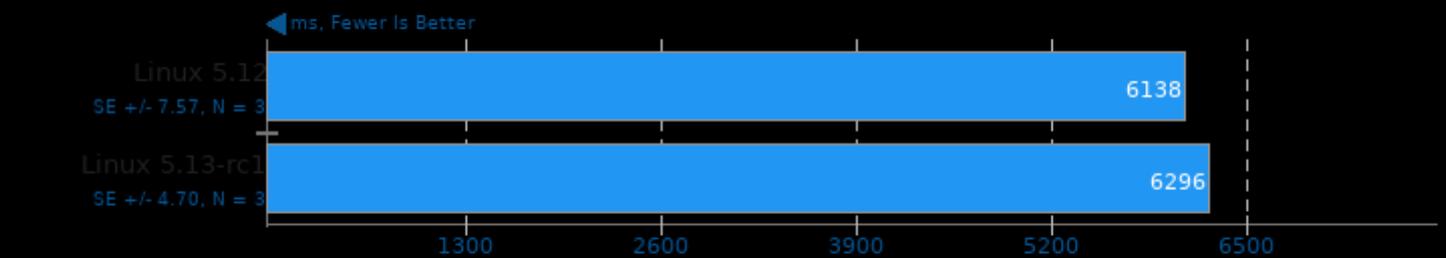
Test: OpenMP CFD Solver



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

Google Draco 1.4.1

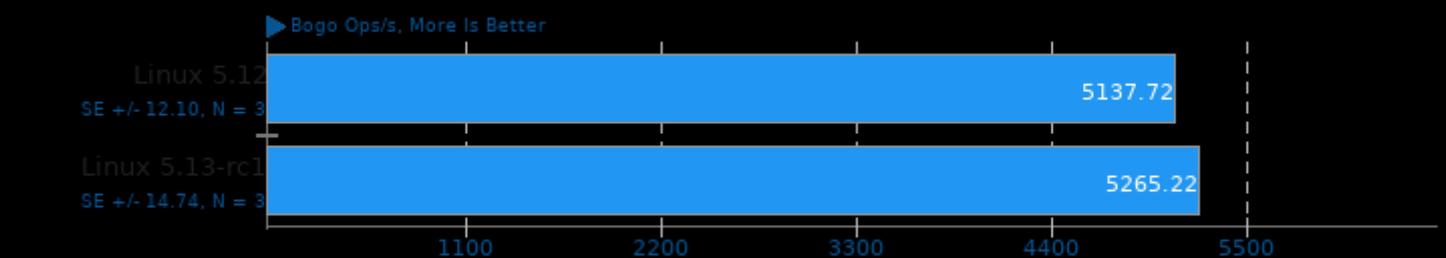
Model: Church Facade



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

Stress-NG 0.11.07

Test: CPU Stress

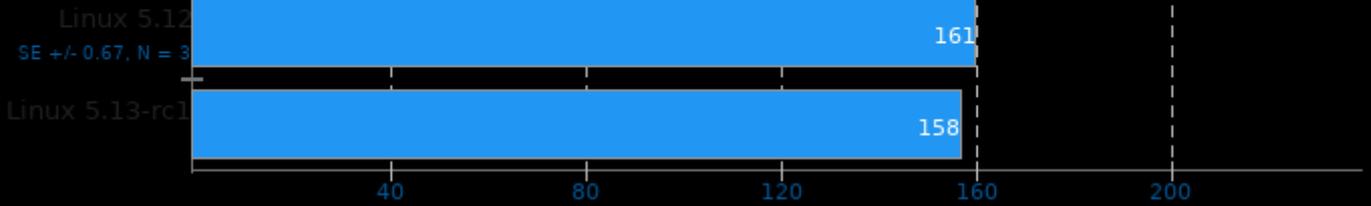


1. (C) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -pthread -lc

ctx_clock

Context Switch Time

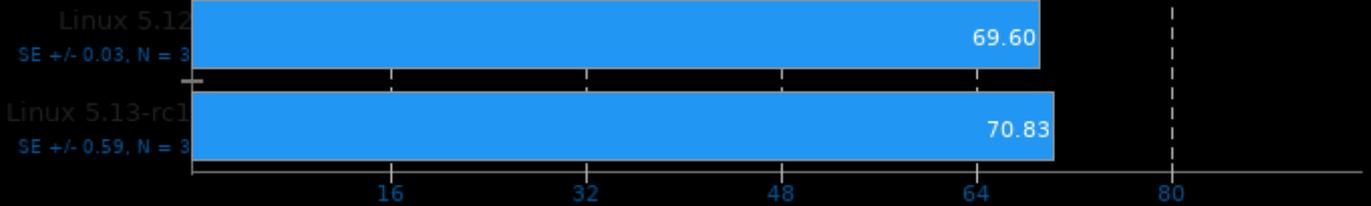
◀ Clocks, Fewer Is Better



Rodinia 3.1

Test: OpenMP HotSpot3D

◀ Seconds, Fewer Is Better

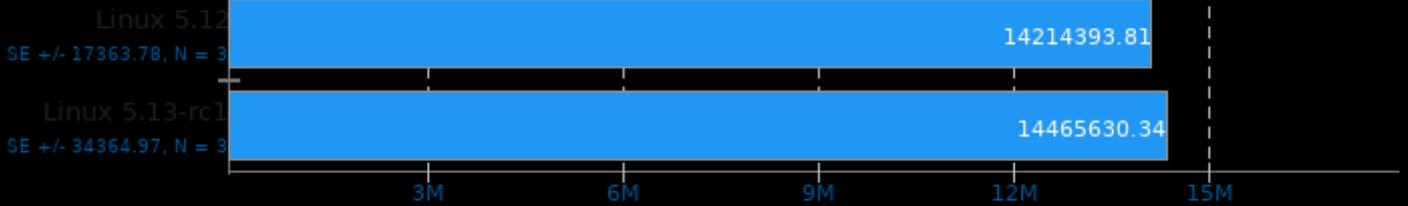


1. (CXX) g++ options: -O2 -fOpenCL

Stress-NG 0.11.07

Test: System V Message Passing

▶ Bogo Ops/s, More Is Better

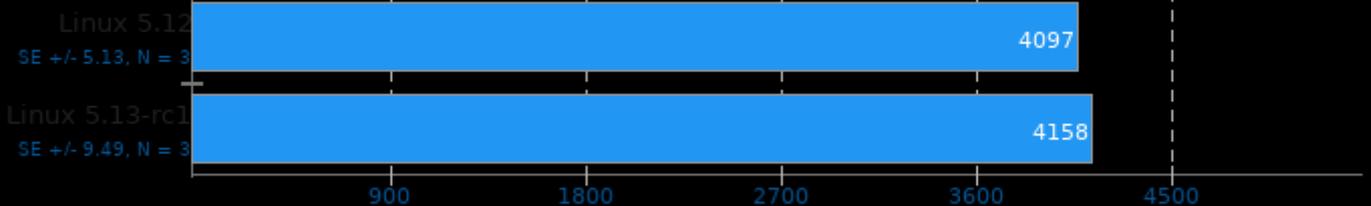


1. (C) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -pthread -lc

Google Draco 1.4.1

Model: Lion

◀ ms, Fewer Is Better

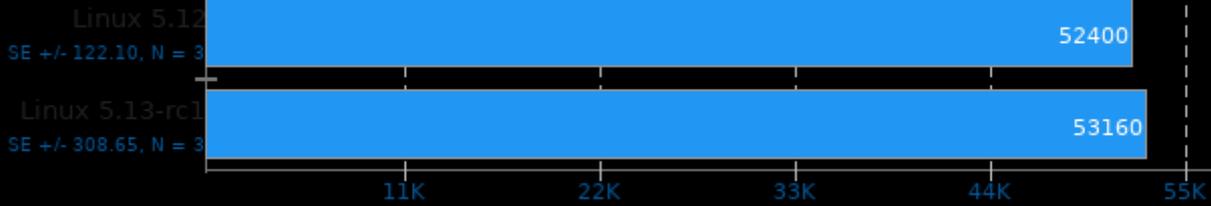


1. (CXX) g++ options: -O3

PJSIP 2.11

Method: OPTIONS, Stateless

▶ Responses Per Second, More Is Better

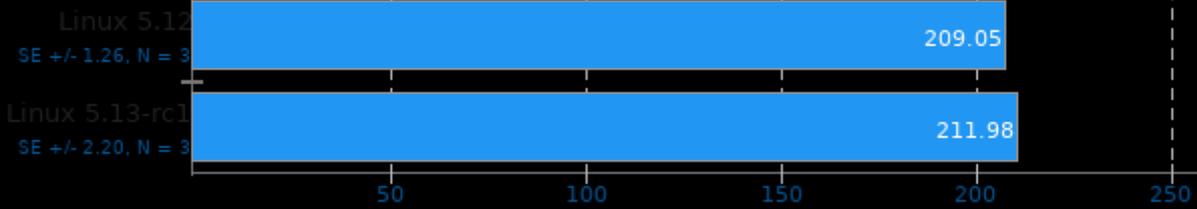


1. (CC) gcc options: -fSDL2 -lavformat -lavcodec -lswscale -lavutil -lstdc++ -lopus -lssl -lcrypto -luuid -lm -lrt -lpthread -lasound -O2

Rodinia 3.1

Test: OpenMP LavaMD

◀ Seconds, Fewer Is Better

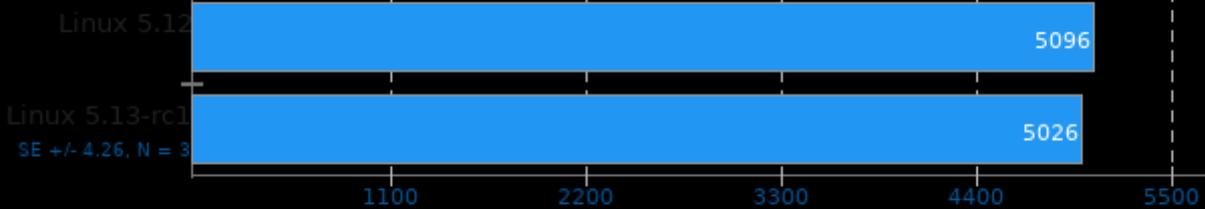


1. (CXX) g++ options: -O2 -fOpenCL

PJSIP 2.11

Method: INVITE

▶ Responses Per Second, More Is Better

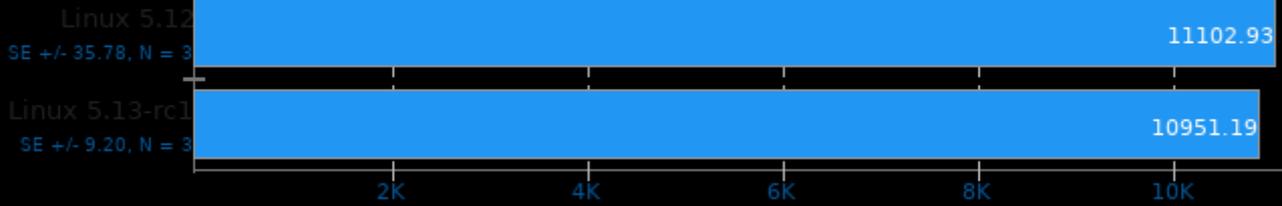


1. (CC) gcc options: -fSDL2 -lavformat -lavcodec -lswscale -lavutil -lstdc++ -lopus -lssl -lcrypto -luuid -lm -lrt -lpthread -lasound -O2

Stress-NG 0.11.07

Test: Socket Activity

► Bogo Ops/s, More Is Better

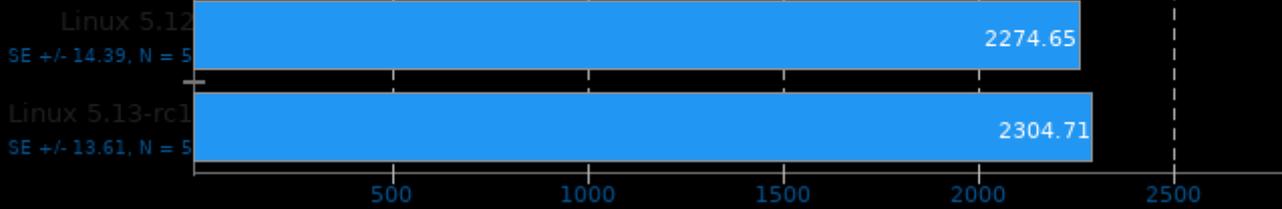


1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

Renaissance 0.10.0

Test: In-Memory Database Shootout

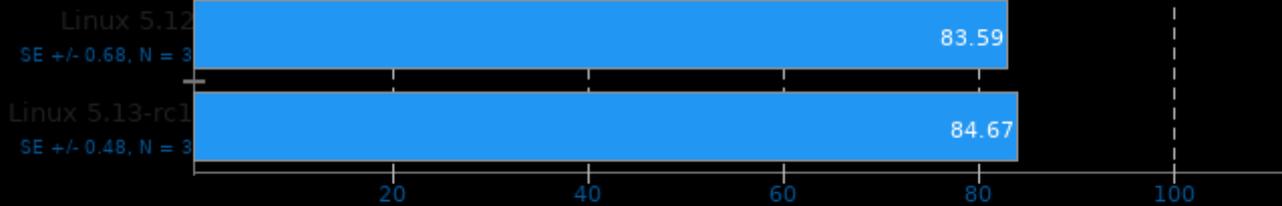
◀ ms, Fewer Is Better



Timed Wasmer Compilation 1.0.2

Time To Compile

◀ Seconds, Fewer Is Better

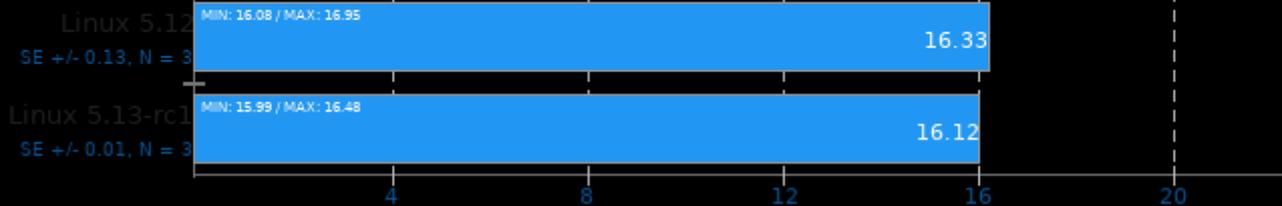


1. (CC) gcc options: -m64 -pie -nodefaultlibs -ldl -lrt -lpthread -lgcc_s -lc -lm -lutil

Embree 3.13

Binary: Pathtracer ISPC - Model: Asian Dragon

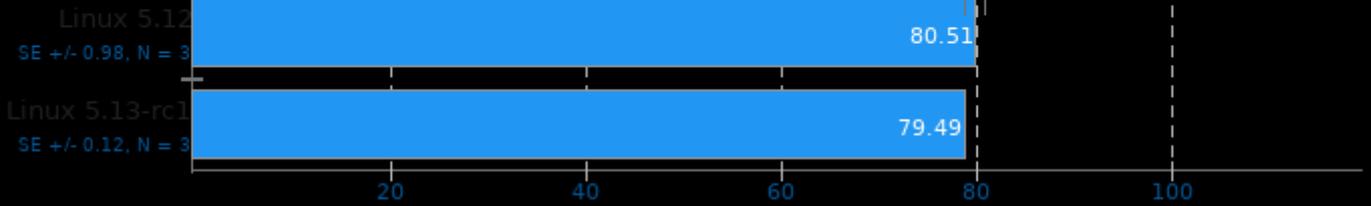
► Frames Per Second, More Is Better



ParaView 5.9

Test: Wavelet Volume - Resolution: 3840 x 2160

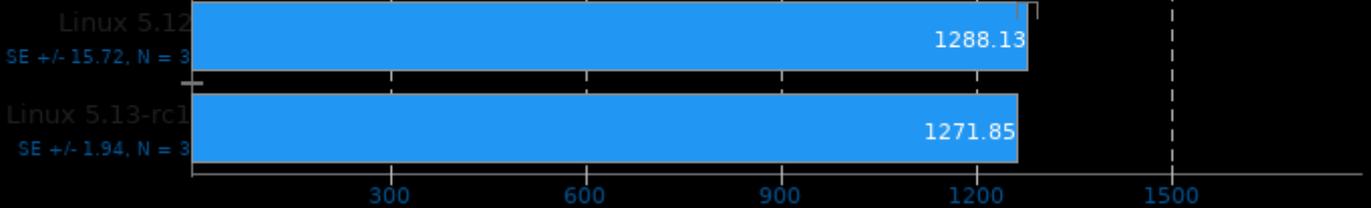
▶ Frames / Sec, More Is Better



ParaView 5.9

Test: Wavelet Volume - Resolution: 3840 x 2160

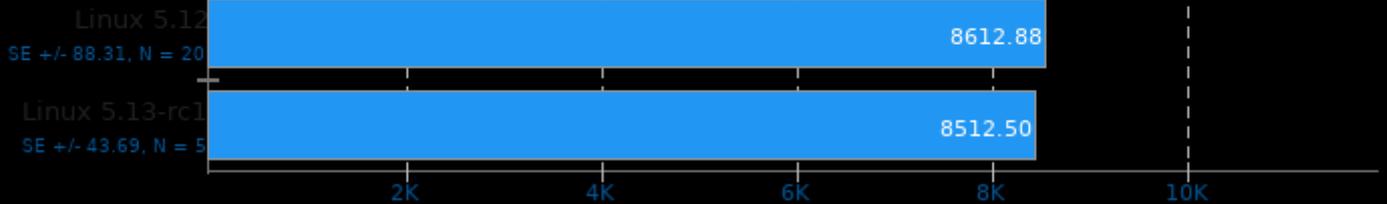
▶ MiVoxels / Sec, More Is Better



Renaissance 0.10.0

Test: Akka Unbalanced Cobwebbed Tree

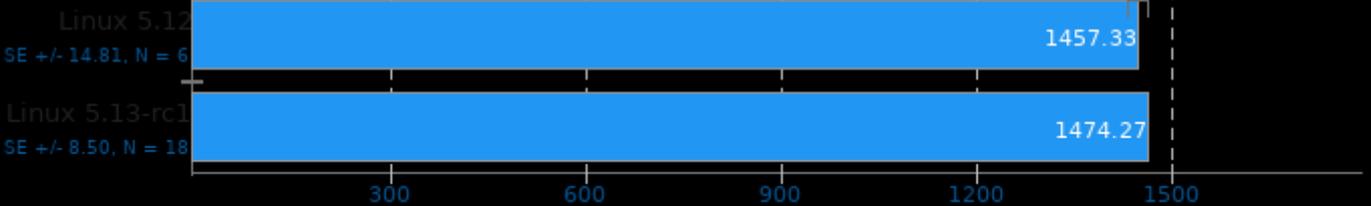
◀ ms, Fewer Is Better



Renaissance 0.10.0

Test: Apache Spark ALS

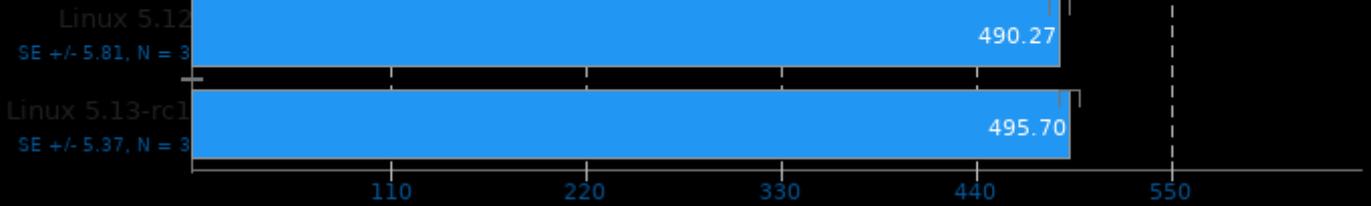
◀ ms, Fewer Is Better



Tesseract 2014-05-12

Resolution: 3840 x 2160

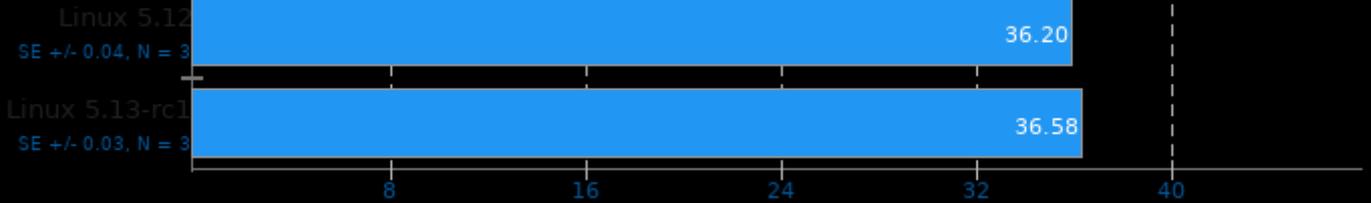
► Frames Per Second, More Is Better



Hackbench

Count: 16 - Type: Process

◄ Seconds, Fewer Is Better

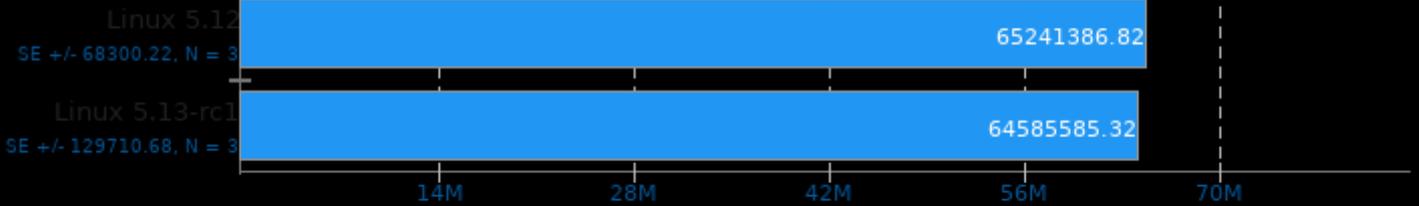


1. (CC) gcc options: -pthread

Stress-NG 0.11.07

Test: Malloc

► Bogo Ops/s, More Is Better

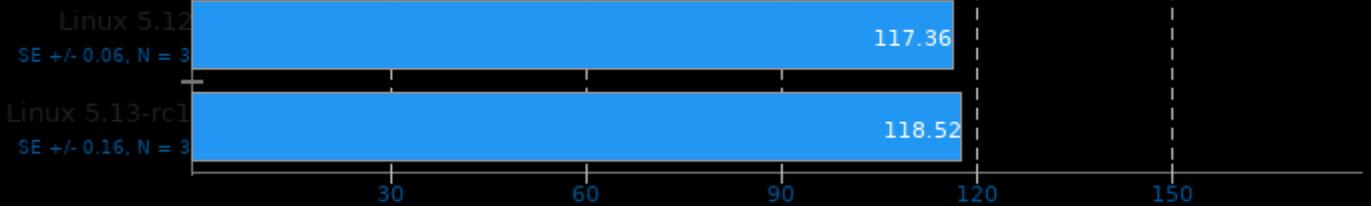


1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -pthread -lc

Parboil 2.5

Test: OpenMP LBM

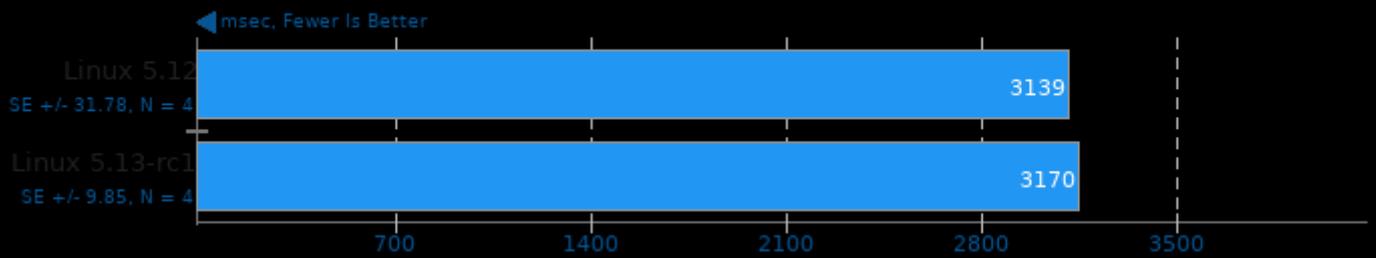
◄ Seconds, Fewer Is Better



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

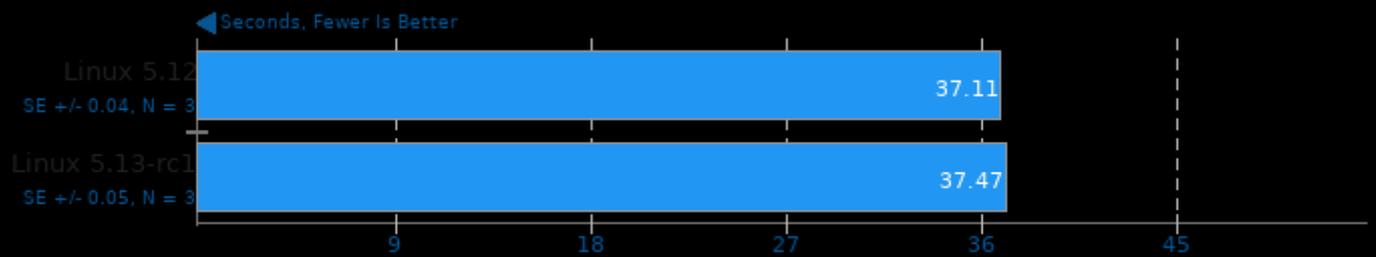
DaCapo Benchmark 9.12-MR1

Java Test: jython



Hackbench

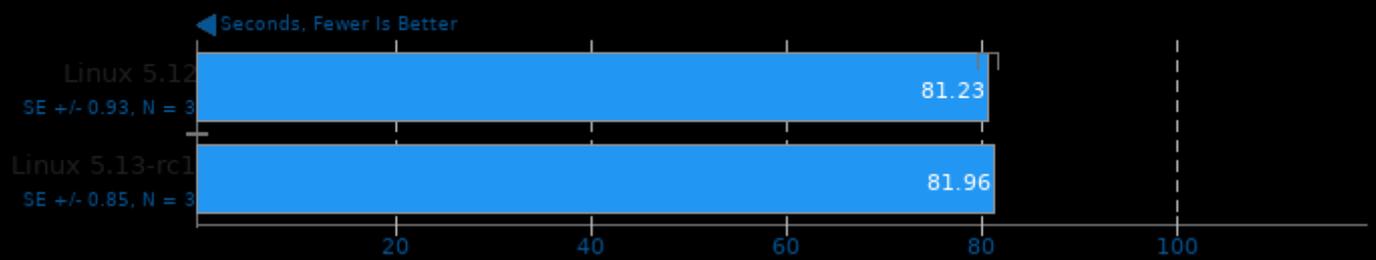
Count: 16 - Type: Thread



1. (GCC) gcc options: -lpthread

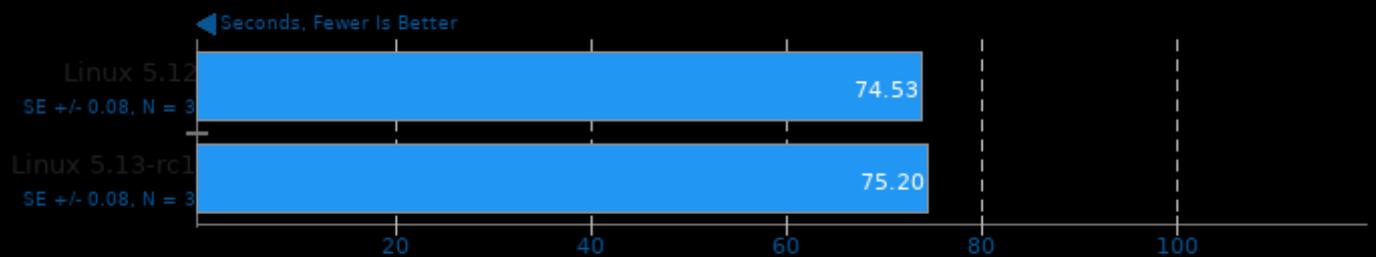
Timed Linux Kernel Compilation 5.10.20

Time To Compile



Hackbench

Count: 32 - Type: Process

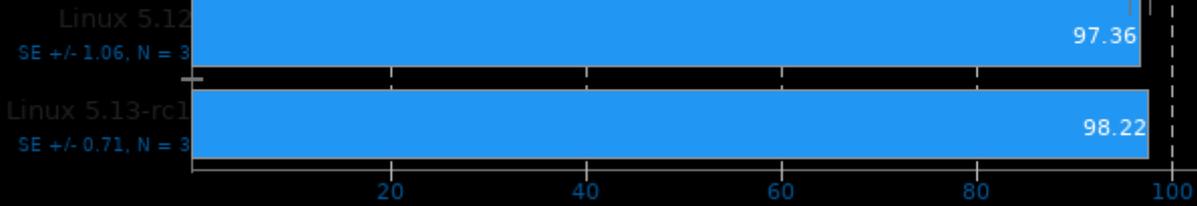


1. (GCC) gcc options: -lpthread

Selenium

Benchmark: Jetstream 2 - Browser: Firefox

▶ Score, More Is Better

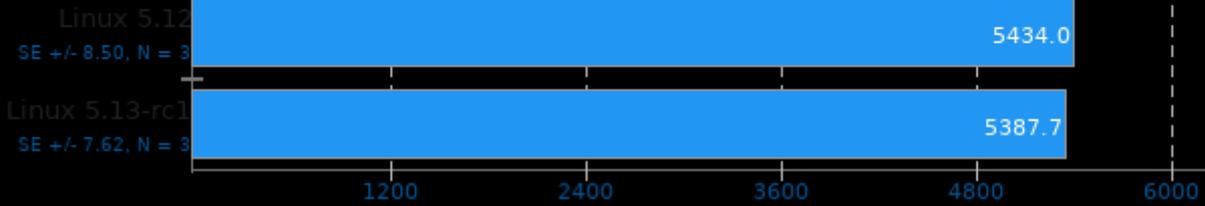


1. firefox 87.0

Cryptsetup

AES-XTS 256b Encryption

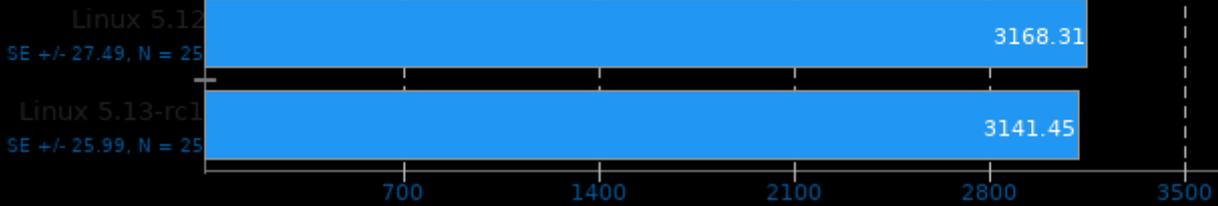
▶ MiB/s, More Is Better



Renaissance 0.10.0

Test: Apache Spark PageRank

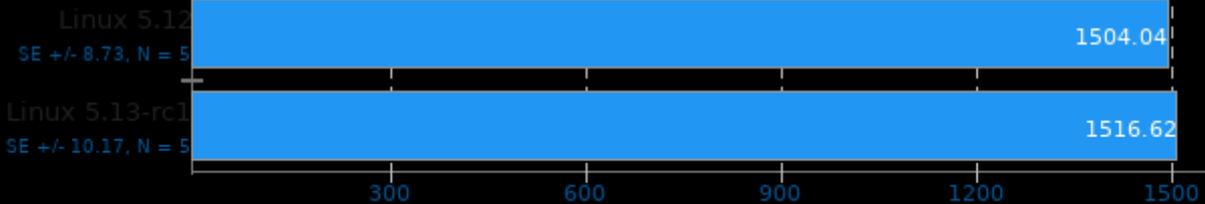
◀ ms, Fewer Is Better



Renaissance 0.10.0

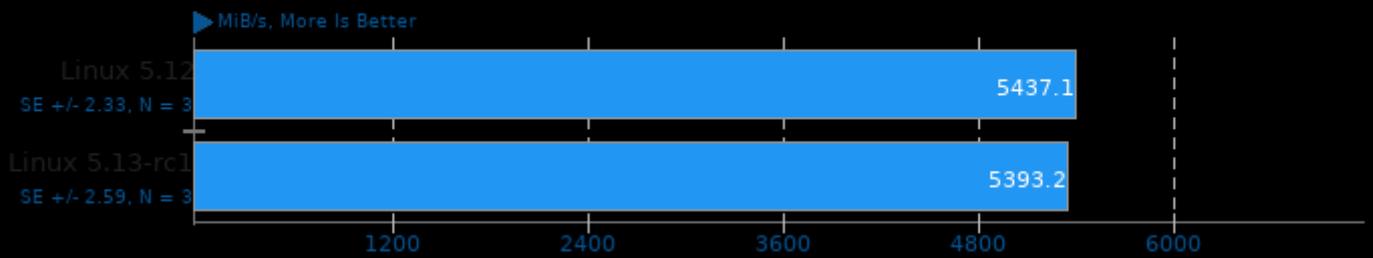
Test: Twitter HTTP Requests

◀ ms, Fewer Is Better



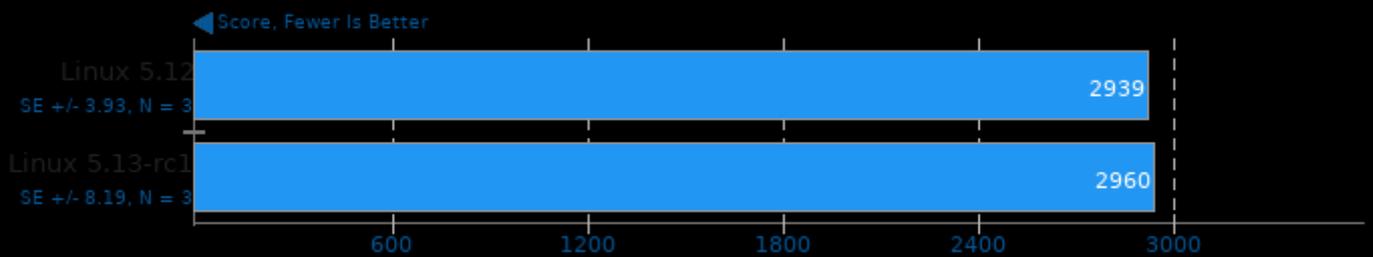
Cryptsetup

AES-XTS 256b Decryption



Selenium

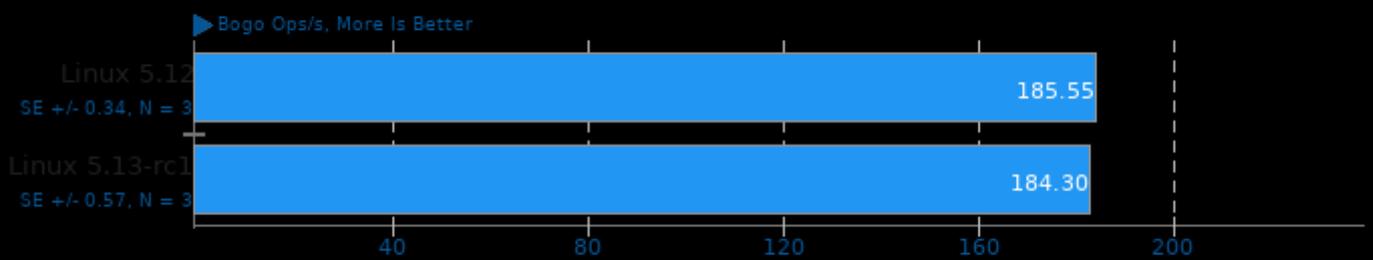
Benchmark: PSPDFKit WASM - Browser: Google Chrome



1. chrome 90.0.4430.72

Stress-NG 0.11.07

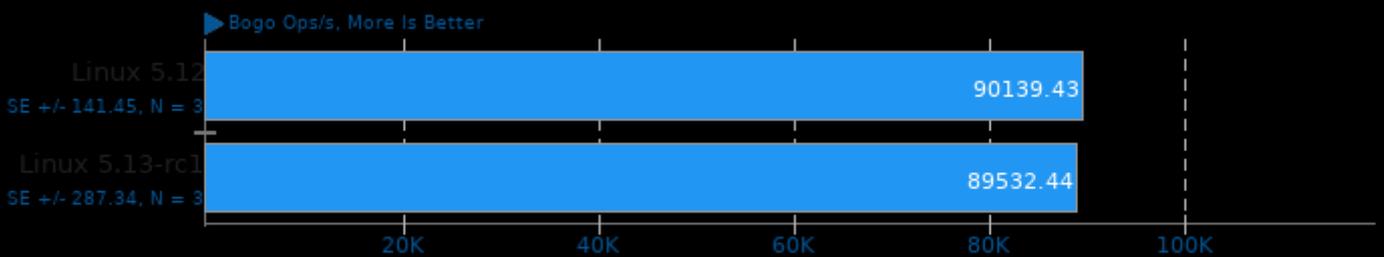
Test: Glibc Qsort Data Sorting



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

Stress-NG 0.11.07

Test: Forking

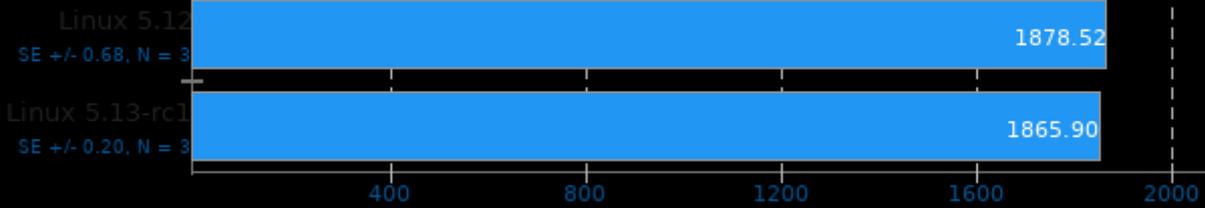


1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

Stress-NG 0.11.07

Test: Memory Copying

► Bogo Ops/s, More Is Better

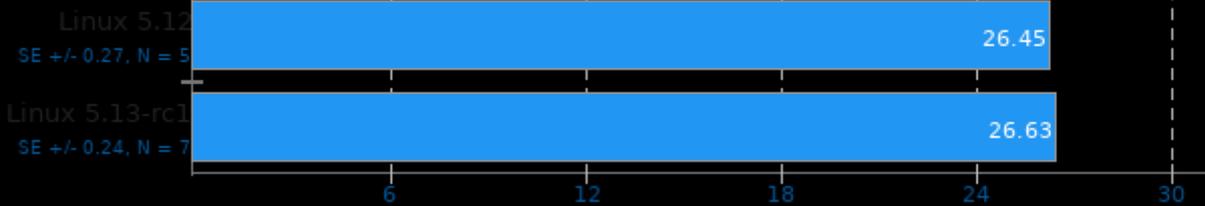


1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -pthread -lc

Selenium

Benchmark: WASM imageConvolute - Browser: Google Chrome

◀ ms, Fewer Is Better

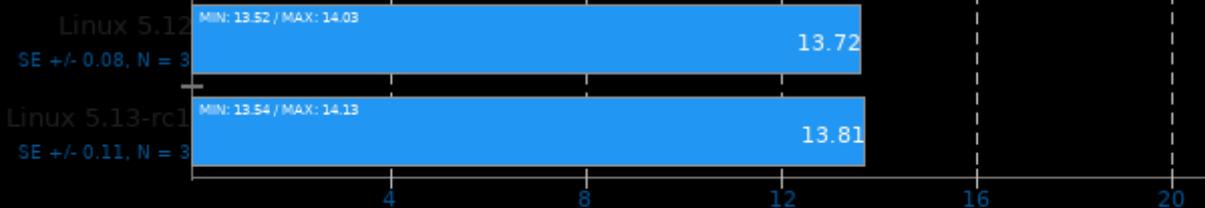


1. chrome 90.0.4430.72

Embree 3.13

Binary: Pathtracer - Model: Asian Dragon

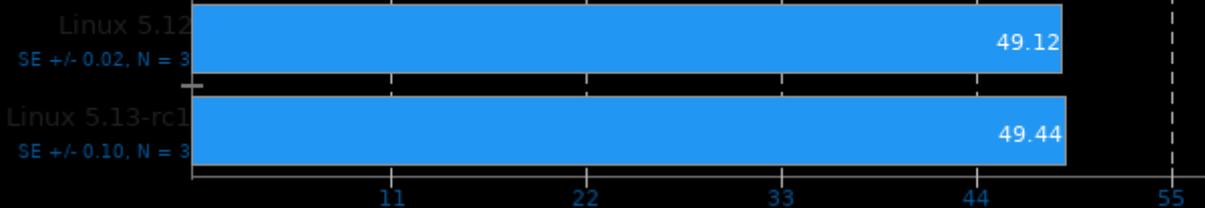
► Frames Per Second, More Is Better



Timed Mesa Compilation 21.0

Time To Compile

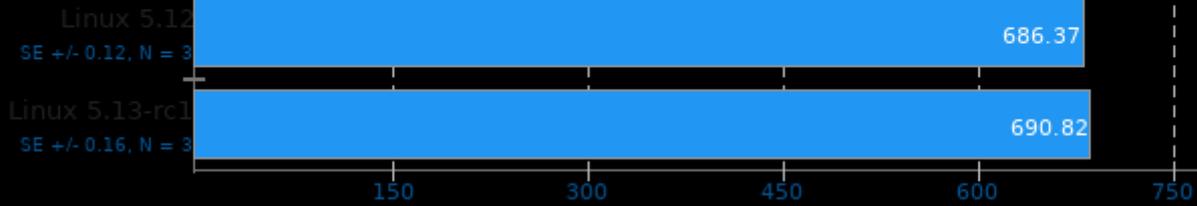
◀ Seconds, Fewer Is Better



Timed LLVM Compilation 12.0

Build System: Ninja

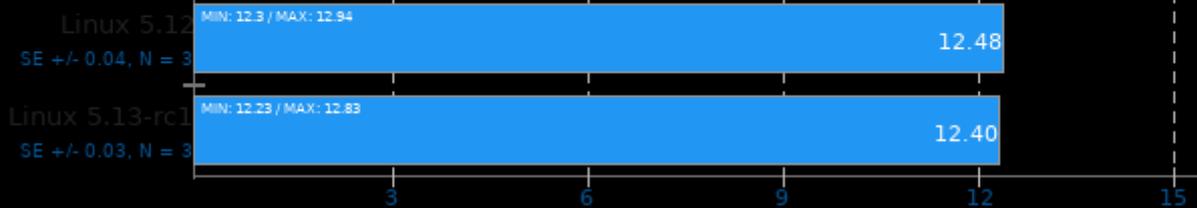
← Seconds, Fewer Is Better



Embree 3.13

Binary: Pathtracer - Model: Crown

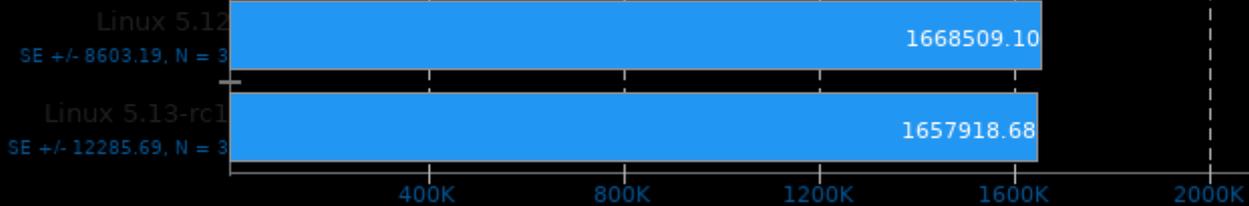
▶ Frames Per Second, More Is Better



Stress-NG 0.11.07

Test: Glibc C String Functions

▶ Bogo Ops/s, More Is Better

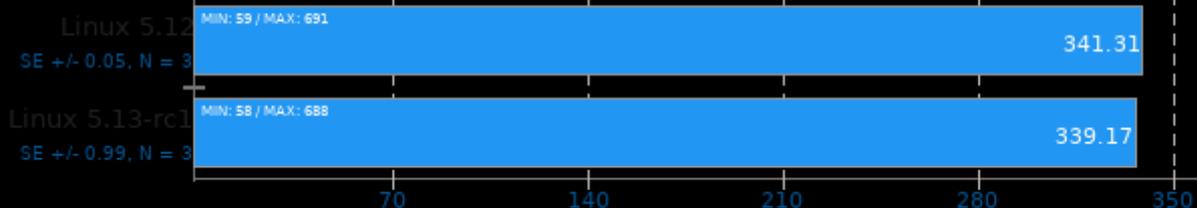


1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

Xonotic 0.8.2

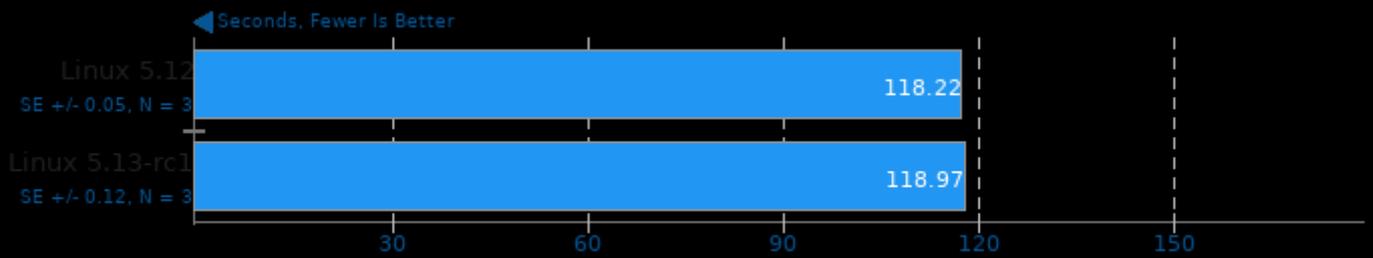
Resolution: 3840 x 2160 - Effects Quality: Ultimate

▶ Frames Per Second, More Is Better



Xcompact3d Incompact3d 2021-03-11

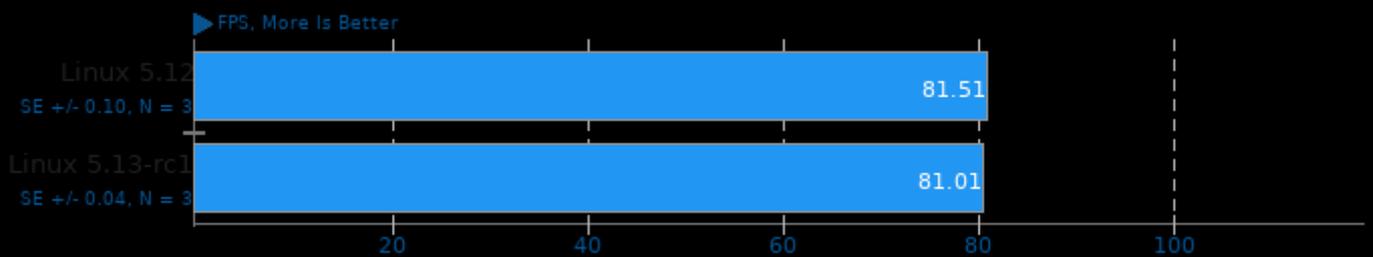
Input: input.i3d 193 Cells Per Direction



1. (F9X) gfortran options: -cpp -O2 -funroll-loops -floop-optimize -fcray-pointer -fbacktrace -pthread -lmpi_usempif08 -lmpi_mpiqh -lmpi -lopen-rte -lopen

libgav1 0.16.3

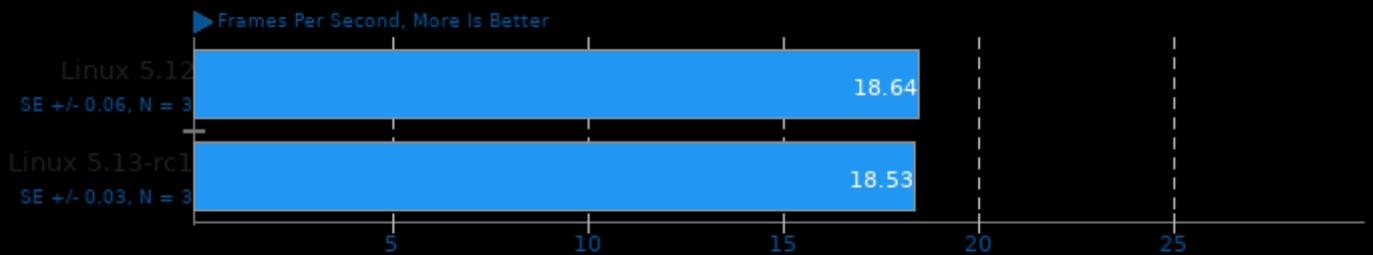
Video Input: Summer Nature 4K



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

SVT-AV1 0.8.7

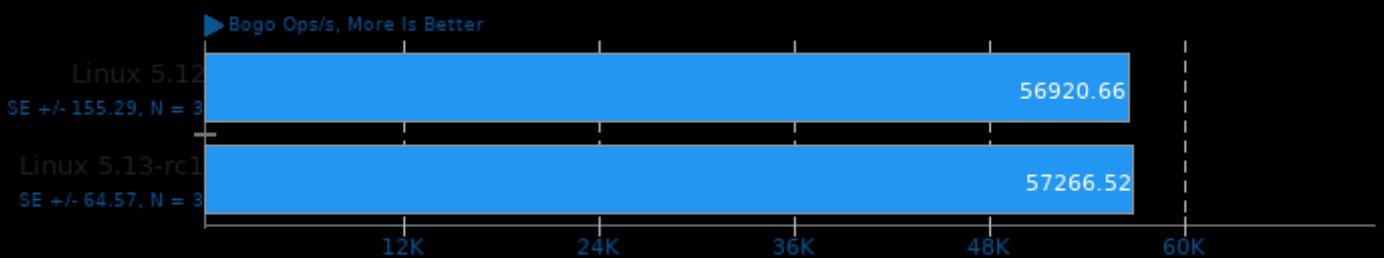
Encoder Mode: Preset 8 - Input: Bosphorus 4K



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

Stress-NG 0.11.07

Test: Matrix Math

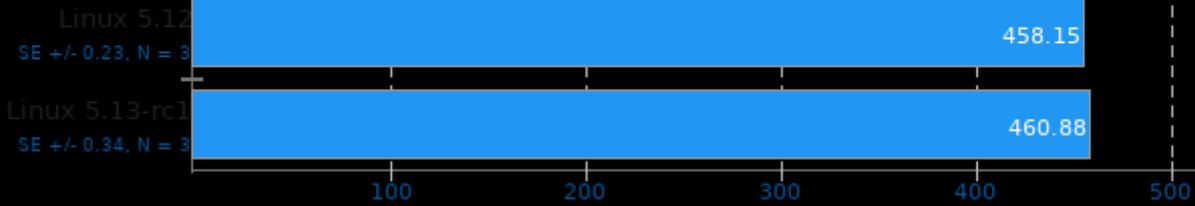


1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -pthread -lc

Timed Node.js Compilation 15.11

Time To Compile

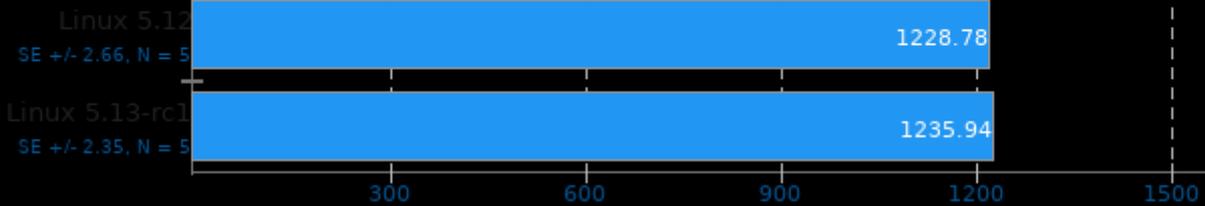
← Seconds, Fewer Is Better



Renaissance 0.10.0

Test: Scala Dotty

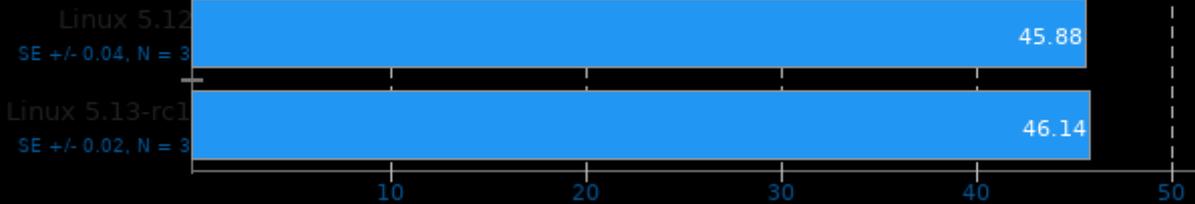
← ms, Fewer Is Better



SQLite Speedtest 3.30

Timed Time - Size 1,000

← Seconds, Fewer Is Better

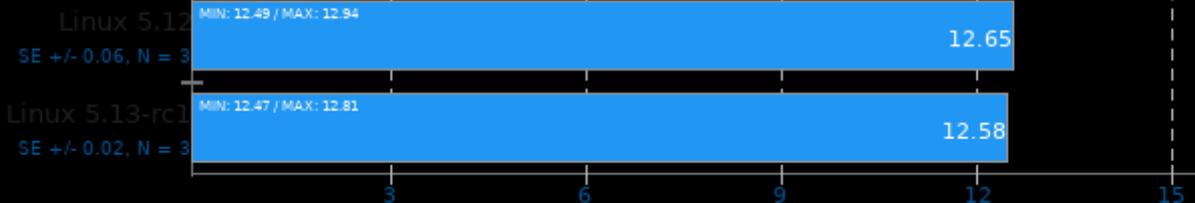


1. (CC) gcc options: -O2 -ldl -lz -lpthread

Embree 3.13

Binary: Pathtracer - Model: Asian Dragon Obj

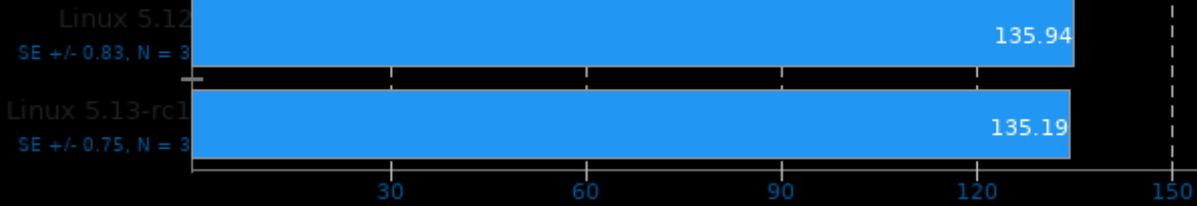
► Frames Per Second, More Is Better



SVT-HEVC 1.5.0

Tuning: 7 - Input: Bosphorus 1080p

► Frames Per Second, More Is Better

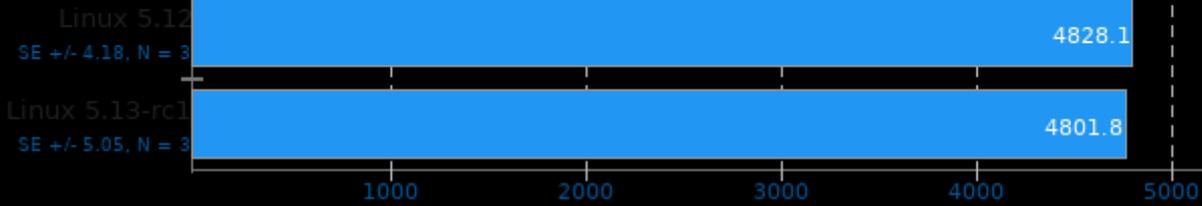


1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -lpthread -lrt

Cryptsetup

AES-XTS 512b Encryption

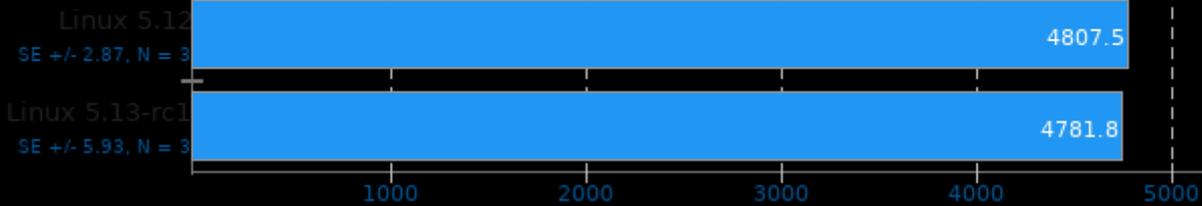
► MiB/s, More Is Better



Cryptsetup

AES-XTS 512b Decryption

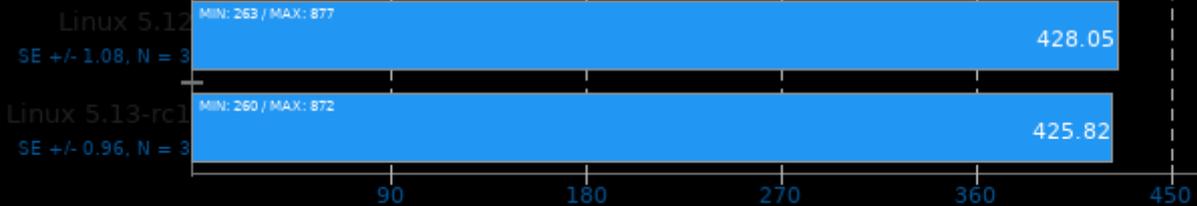
► MiB/s, More Is Better



Xonotic 0.8.2

Resolution: 3840 x 2160 - Effects Quality: Ultra

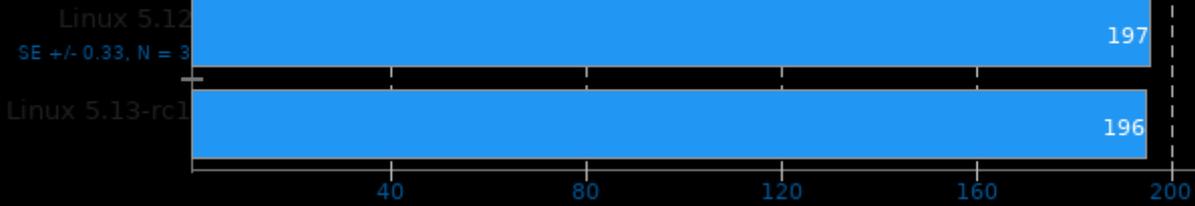
► Frames Per Second, More Is Better



Selenium

Benchmark: Speedometer - Browser: Google Chrome

Runs Per Minute, More Is Better

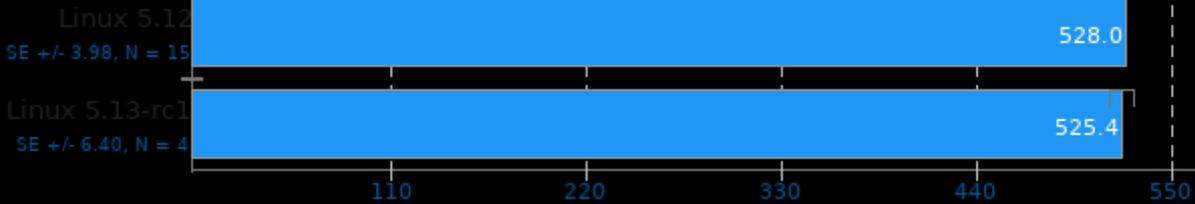


1. chrome 90.0.4430.72

FS-Mark 3.3

Test: 1000 Files, 1MB Size

Files/s, More Is Better

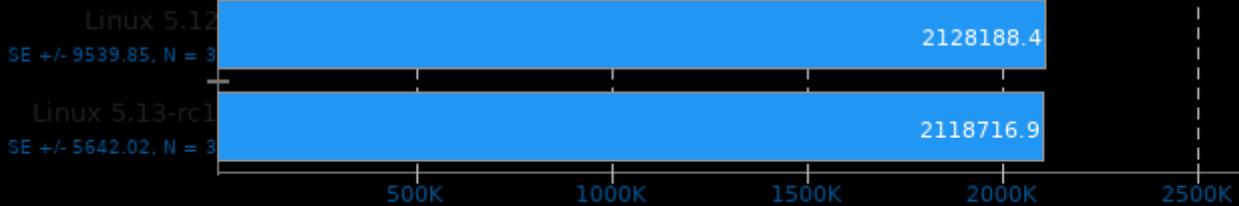


1. (CC) gcc options: -static

InfluxDB 1.8.2

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

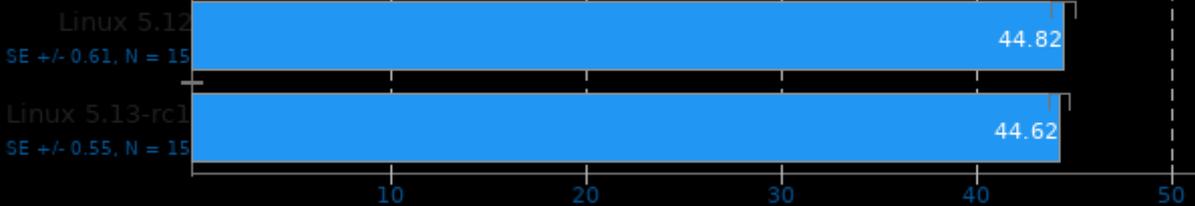
val/sec, More Is Better



Parboil 2.5

Test: OpenMP MRI Gridding

Seconds, Fewer Is Better

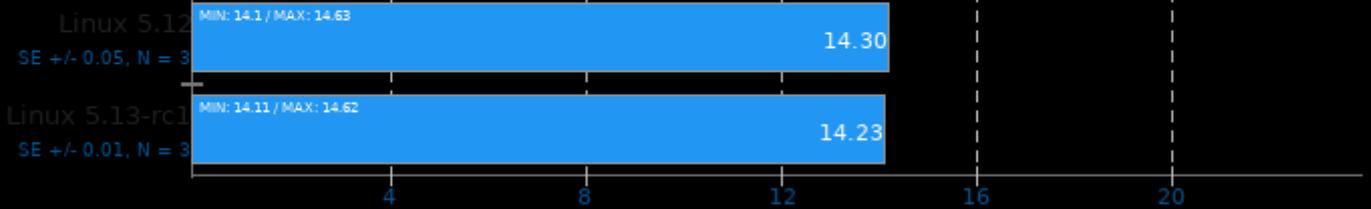


1. (CXX) g++ options: -lm -lthread -lgomp -O3 -ffast-math -fopenmp

Embree 3.13

Binary: Pathtracer ISPC - Model: Asian Dragon Obj

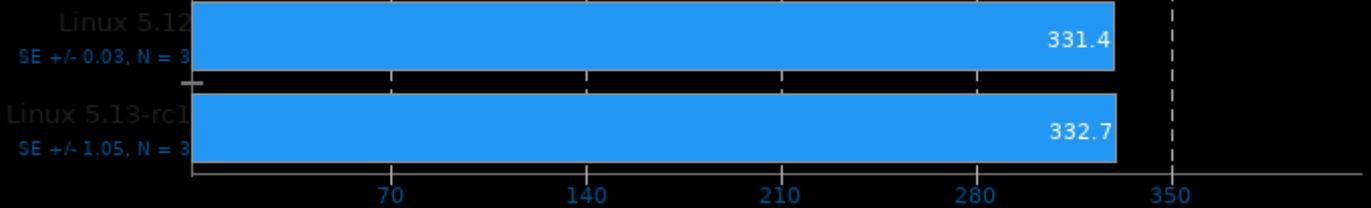
▶ Frames Per Second, More Is Better



Selenium

Benchmark: WASM collisionDetection - Browser: Firefox

◀ ms, Fewer Is Better

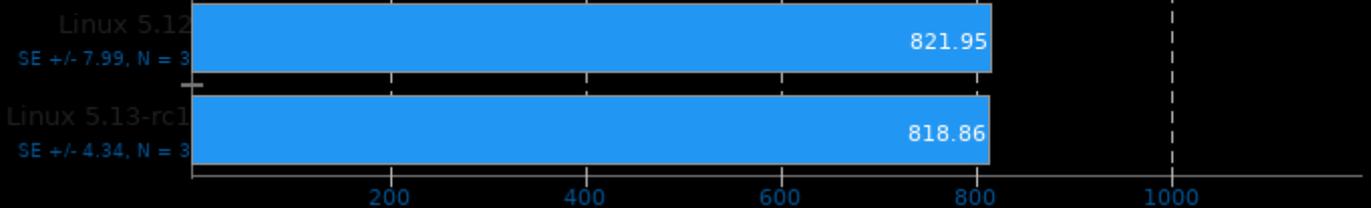


1. firefox 87.0

Compile Bench 0.6

Test: Initial Create

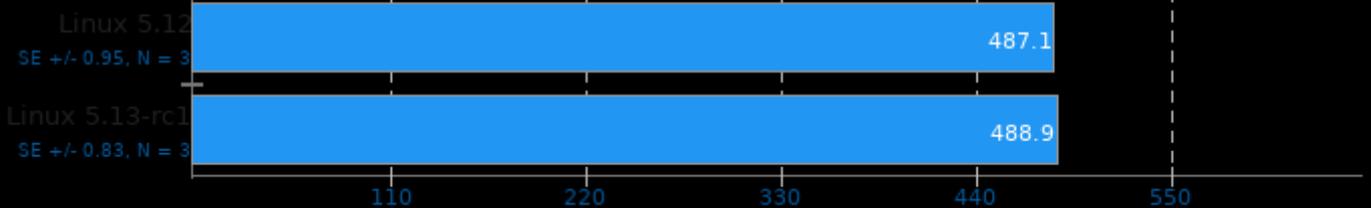
▶ MB/s, More Is Better



Cryptsetup

Twofish-XTS 256b Encryption

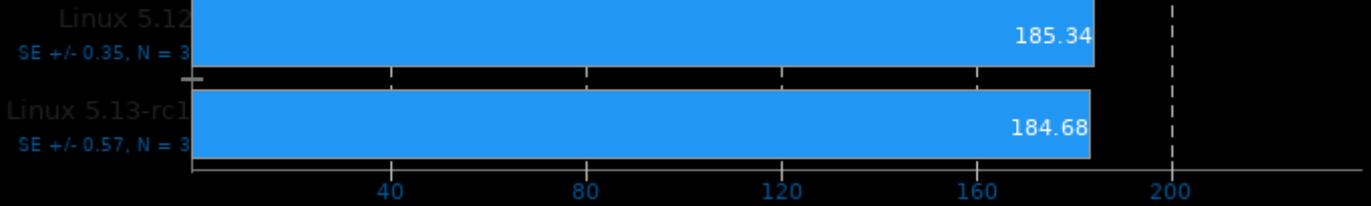
▶ MiB/s, More Is Better



Selenium

Benchmark: Jetstream 2 - Browser: Google Chrome

▶ Score, More Is Better

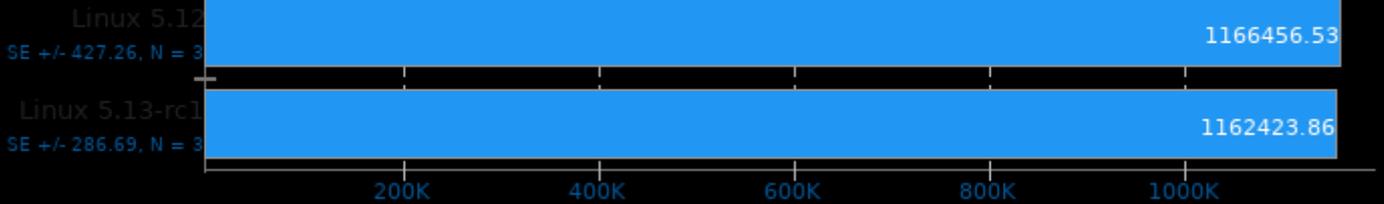


1. chrome 90.0.4430.72

Stress-NG 0.11.07

Test: Semaphores

▶ Bogo Ops/s, More Is Better

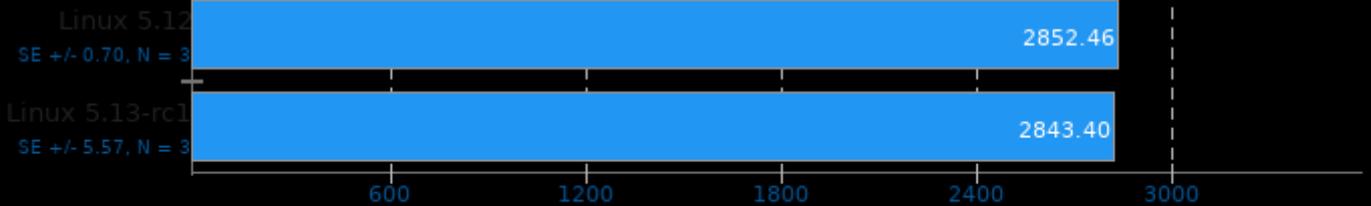


1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -lpthread -lc

ParaView 5.9

Test: Wavelet Contour - Resolution: 3840 x 2160

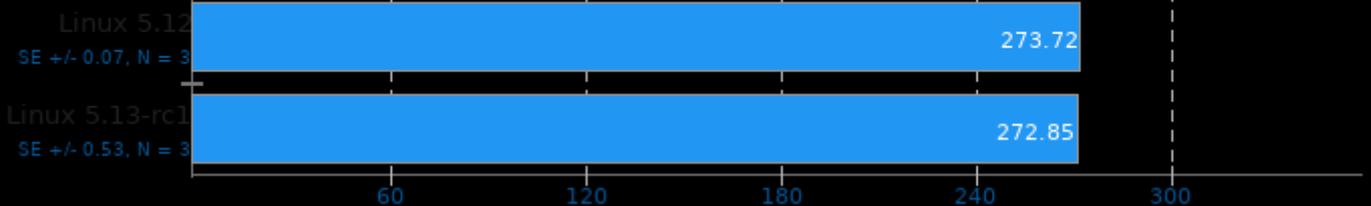
▶ MiPolys / Sec, More Is Better



ParaView 5.9

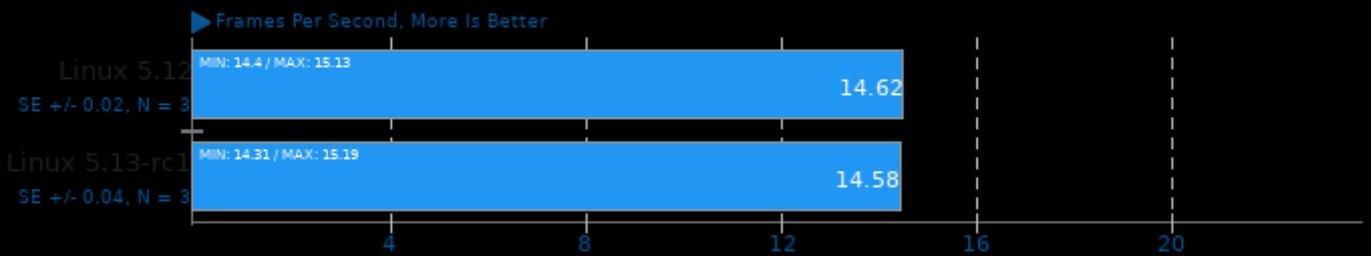
Test: Wavelet Contour - Resolution: 3840 x 2160

▶ Frames / Sec, More Is Better



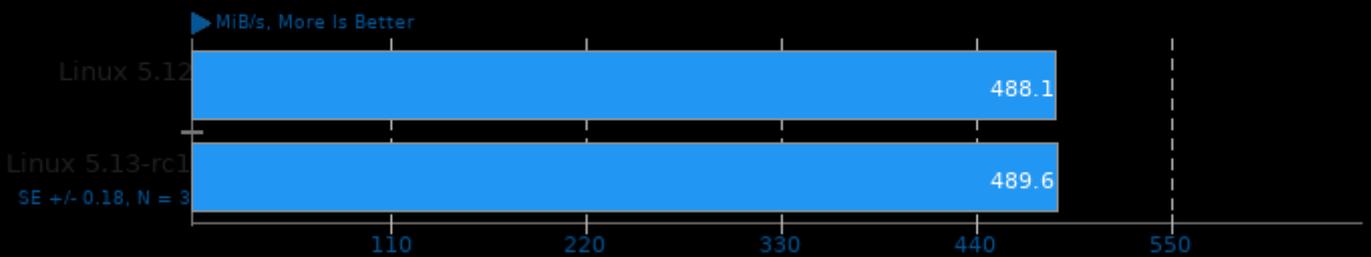
Embree 3.13

Binary: Pathtracer ISPC - Model: Crown



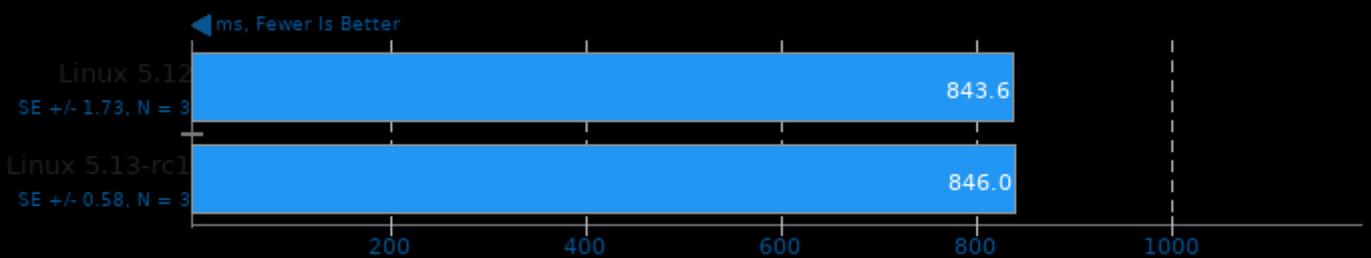
Cryptsetup

Twofish-XTS 512b Encryption



Selenium

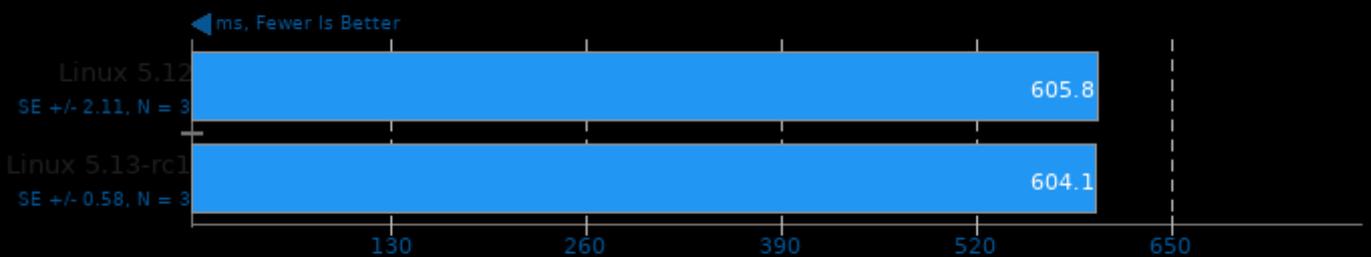
Benchmark: Kraken - Browser: Firefox



1. firefox 87.0

Selenium

Benchmark: Kraken - Browser: Google Chrome



1. chrome 90.0.4430.72

Parboil 2.5

Test: OpenMP CUTCP

◀ Seconds, Fewer Is Better

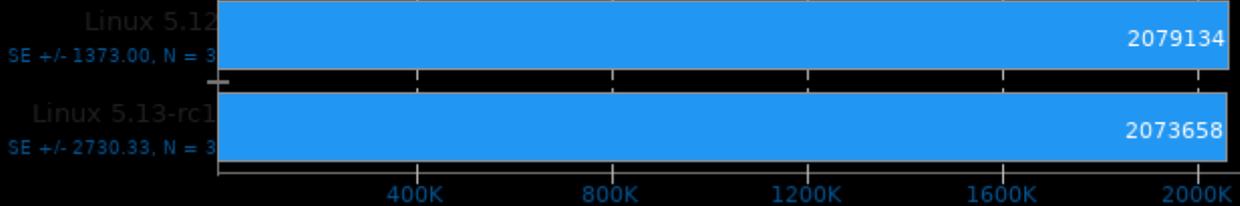


1. (CXX) g++ options: -lm -lthread -lgomp -O3 -ffast-math -fopenmp

Cryptsetup

Test: PBKDF2-sha512

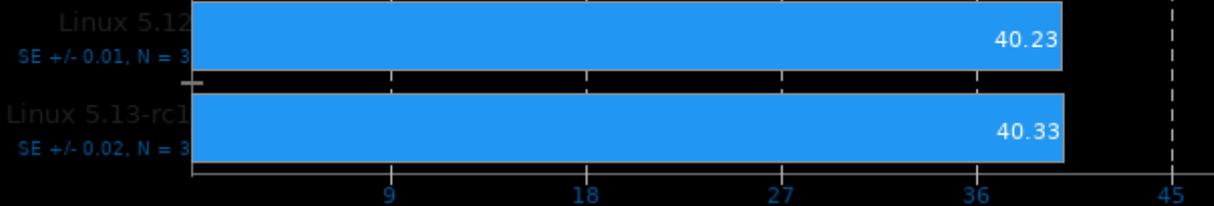
▶ Iterations Per Second, More Is Better



RealSR-NCNN 20200818

Scale: 4x - TAA: Yes

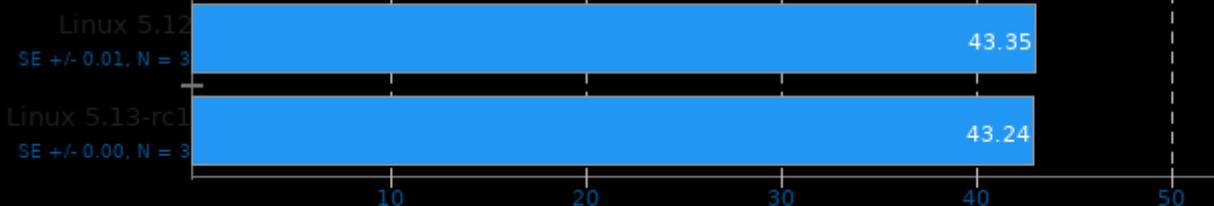
◀ Seconds, Fewer Is Better



ParaView 5.9

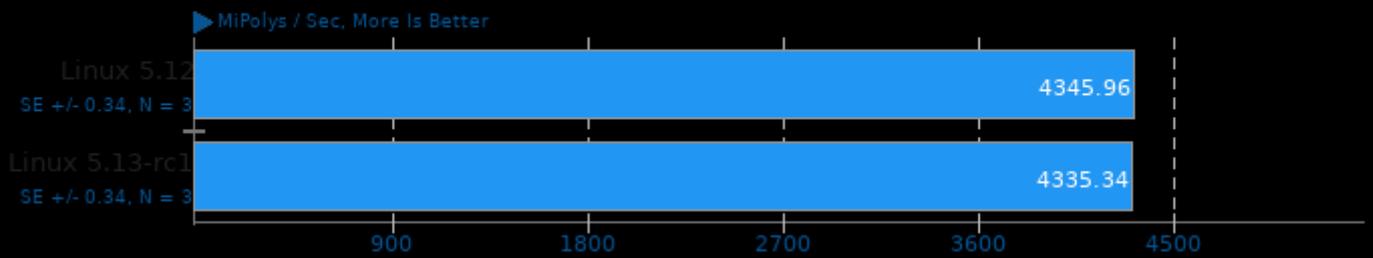
Test: Many Spheres - Resolution: 3840 x 2160

▶ Frames / Sec, More Is Better



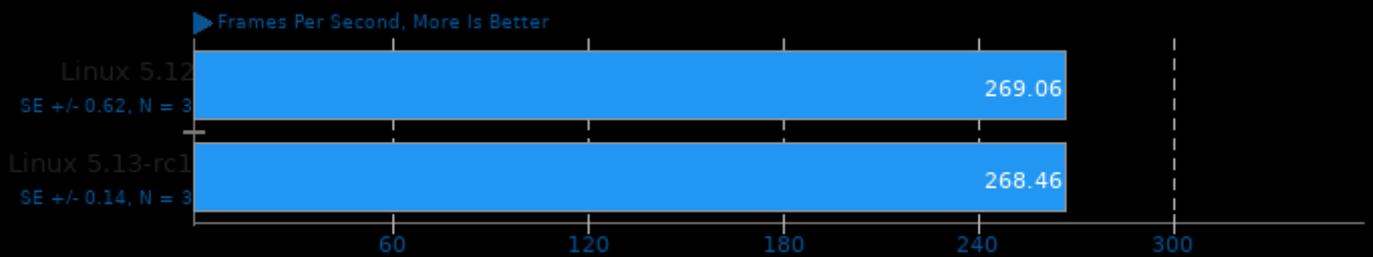
ParaView 5.9

Test: Many Spheres - Resolution: 3840 x 2160



SVT-HEVC 1.5.0

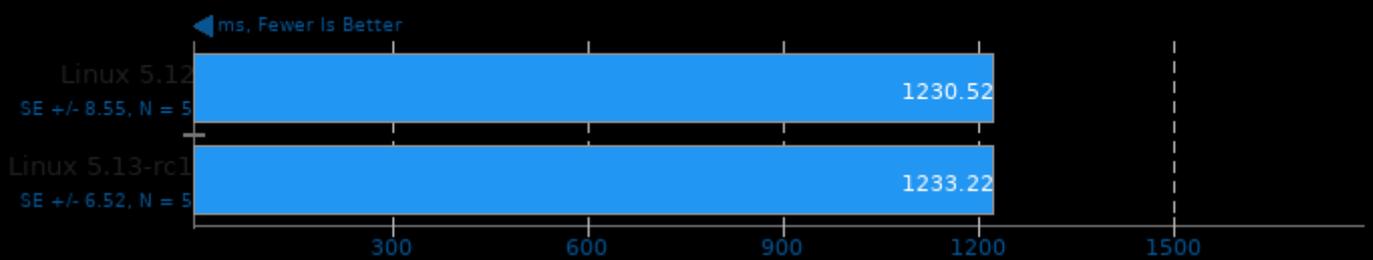
Tuning: 10 - Input: Bosphorus 1080p



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

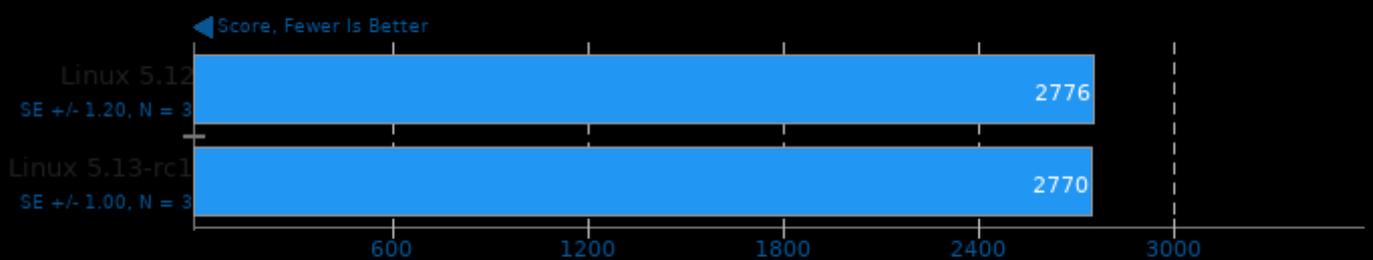
Renaissance 0.10.0

Test: Random Forest



Selenium

Benchmark: PSPDFKit WASM - Browser: Firefox

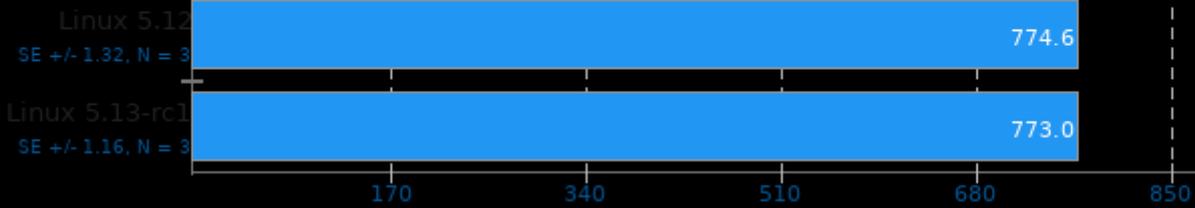


1. firefox 87.0

Cryptsetup

Serpent-XTS 256b Encryption

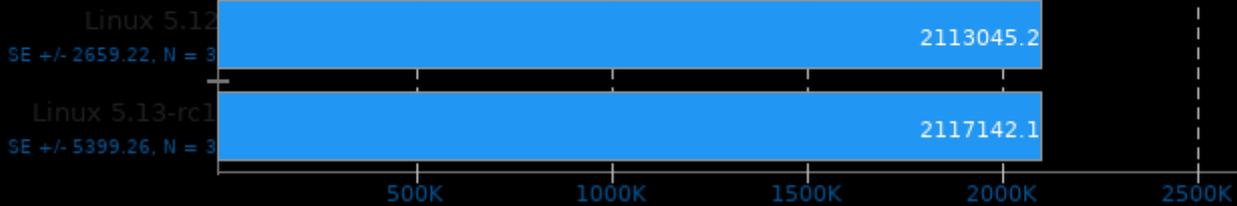
▶ MiB/s, More Is Better



InfluxDB 1.8.2

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

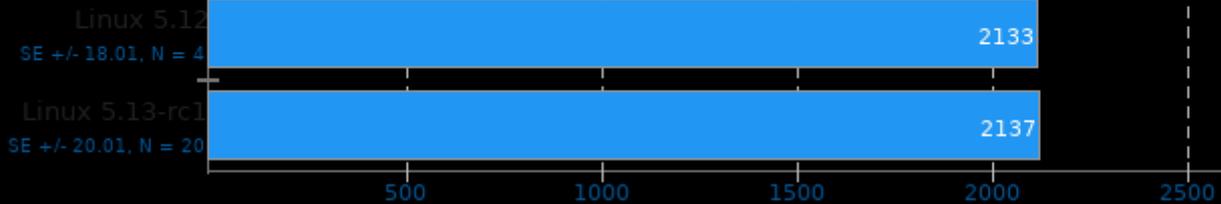
▶ val/sec, More Is Better



DaCapo Benchmark 9.12-MR1

Java Test: Tradebeans

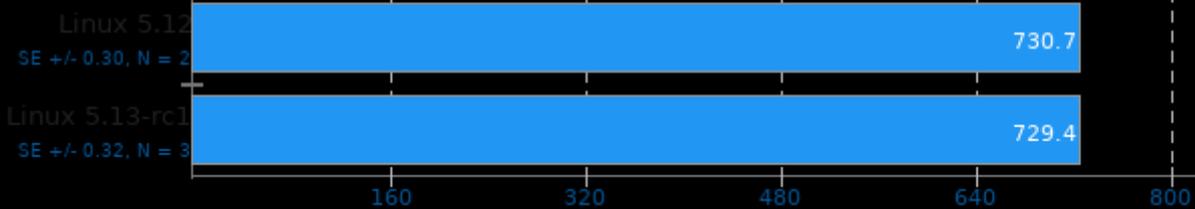
◀ msec, Fewer Is Better



Cryptsetup

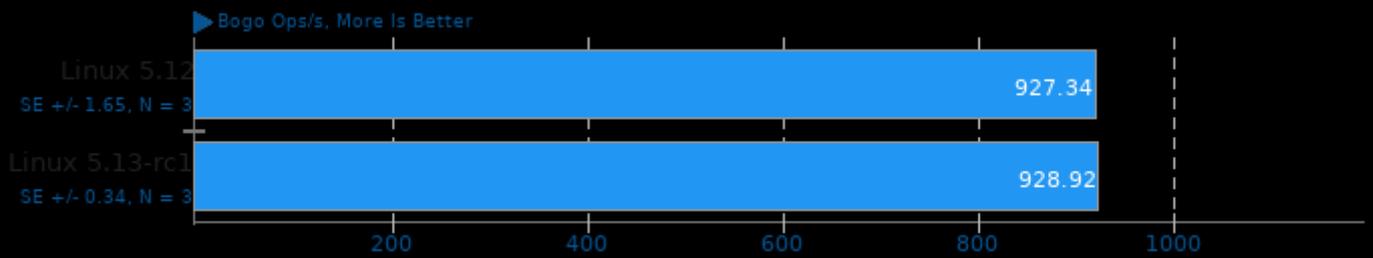
Serpent-XTS 512b Decryption

▶ MiB/s, More Is Better



Stress-NG 0.11.07

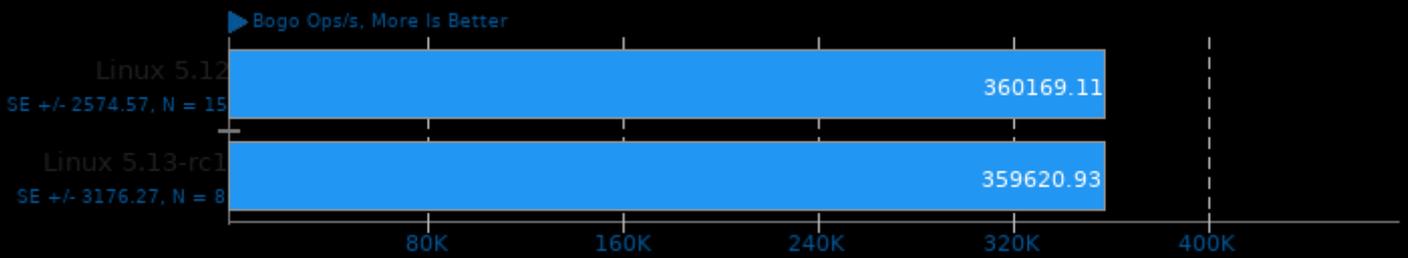
Test: MEMFD



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

Stress-NG 0.11.07

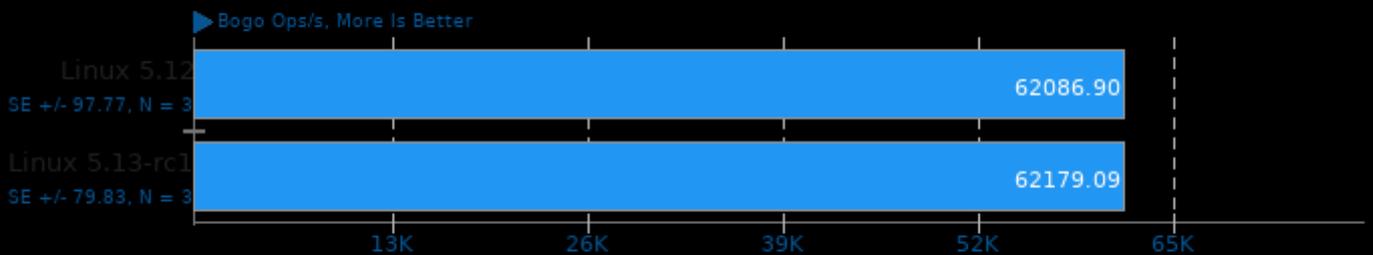
Test: Atomic



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

Stress-NG 0.11.07

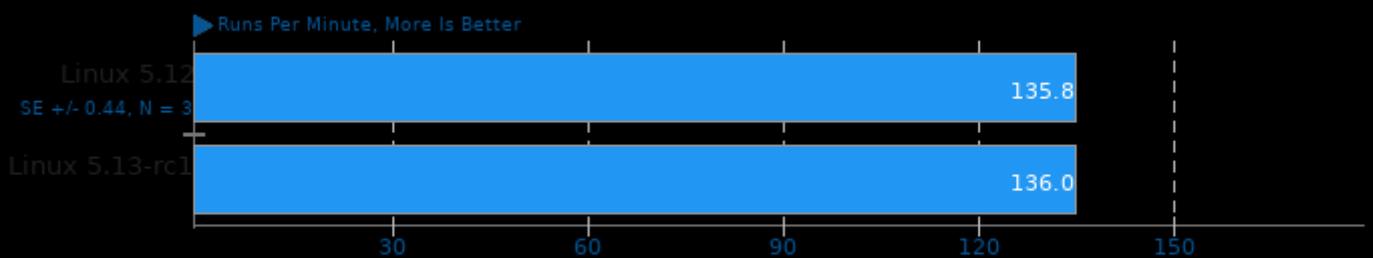
Test: Vector Math



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

Selenium

Benchmark: Speedometer - Browser: Firefox

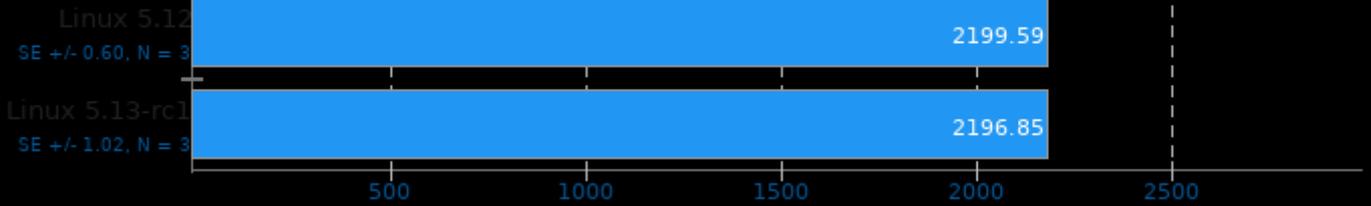


1. firefox 87.0

Stress-NG 0.11.07

Test: Crypto

► Bogo Ops/s, More Is Better

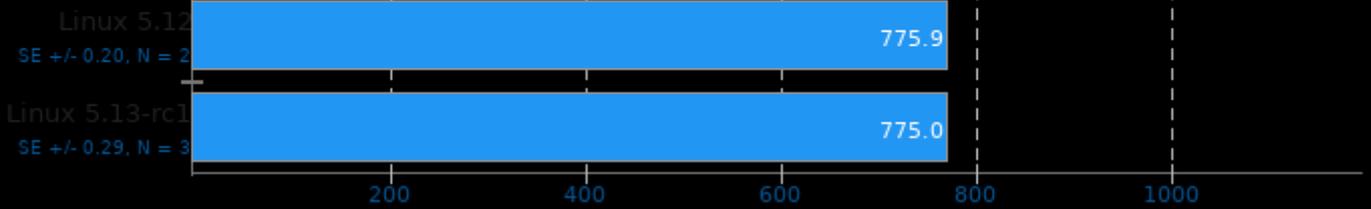


1. (CC) gcc options: -O2 -std=gnu99 -lm -lcrypt -lrt -lsctp -lz -ldl -pthread -lc

Cryptsetup

Serpent-XTS 512b Encryption

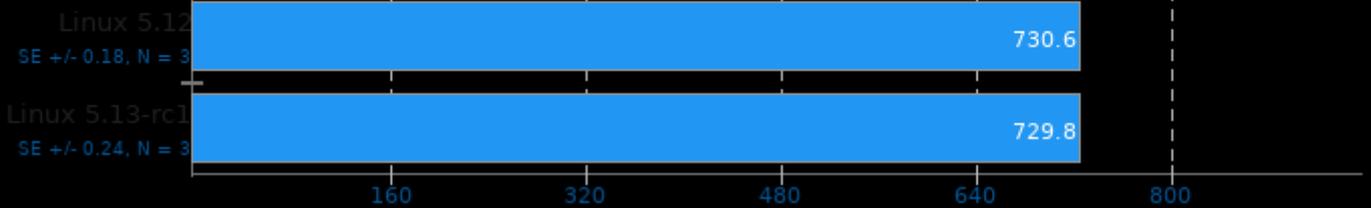
► MiB/s, More Is Better



Cryptsetup

Serpent-XTS 256b Decryption

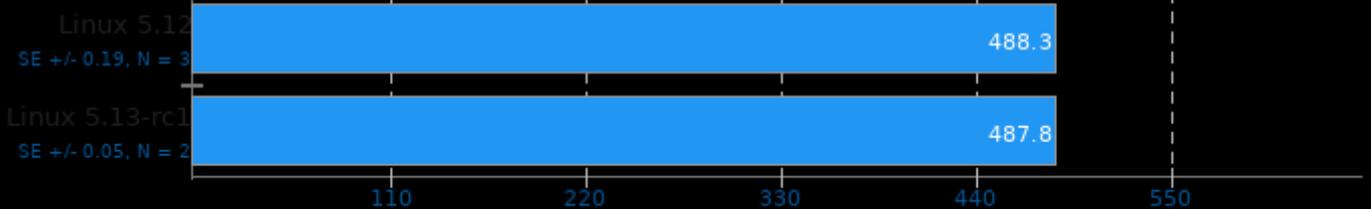
► MiB/s, More Is Better



Cryptsetup

Twofish-XTS 512b Decryption

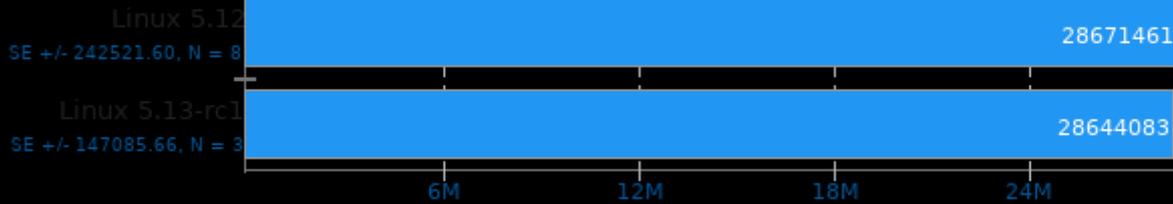
► MiB/s, More Is Better



Stockfish 13

Total Time

► Nodes Per Second, More Is Better

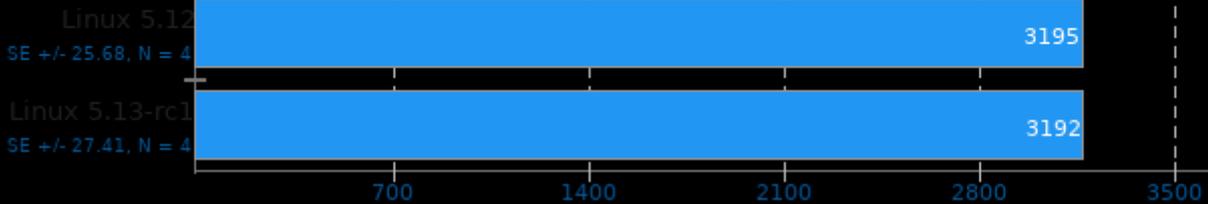


1. (CXX) g++ options: -lgcov -m64 -lpthread -fno-exceptions -std=c++17 -fprofile-use -fno-peel-loops -fno-tracer -pedantic -O3 -msse -msse3 -mpopcnt

DaCapo Benchmark 9.12-MR1

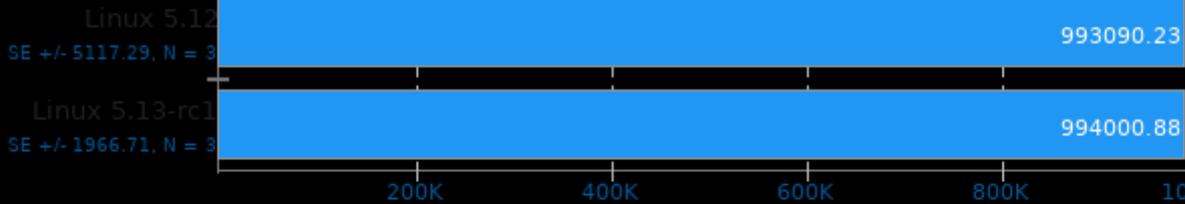
Java Test: Tradesoap

◄ msec, Fewer Is Better



KeyDB 6.0.16

► Ops/sec, More Is Better

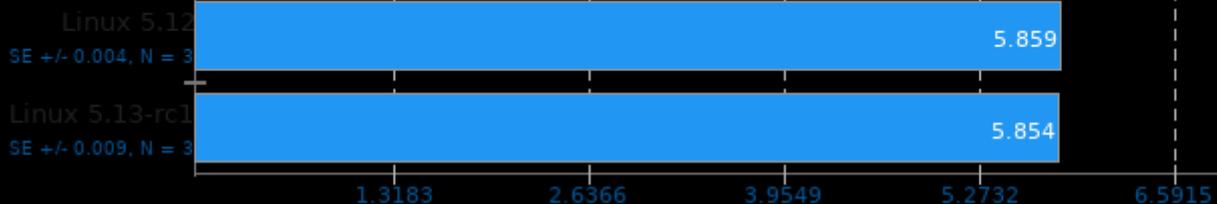


1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcrc

Waifu2x-NCNN Vulkan 20200818

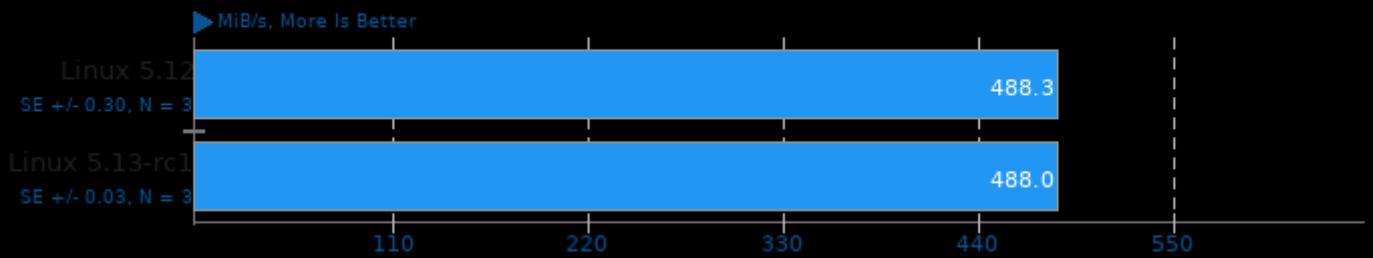
Scale: 2x - Denoise: 3 - TAA: Yes

◄ Seconds, Fewer Is Better



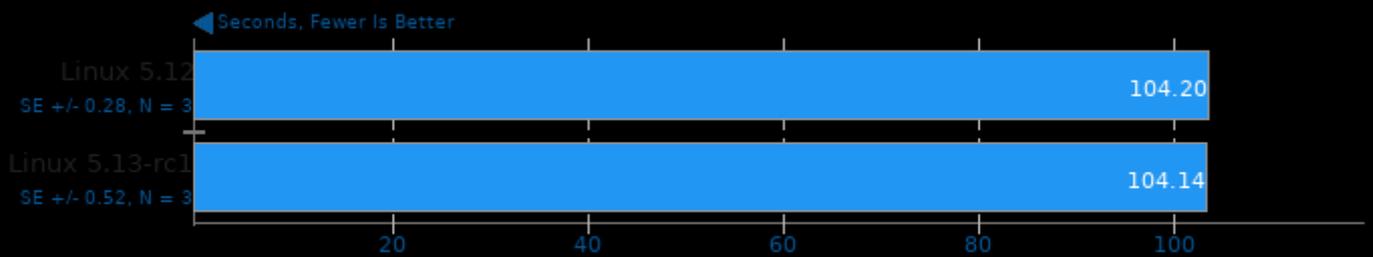
Cryptsetup

Twofish-XTS 256b Decryption



Rodinia 3.1

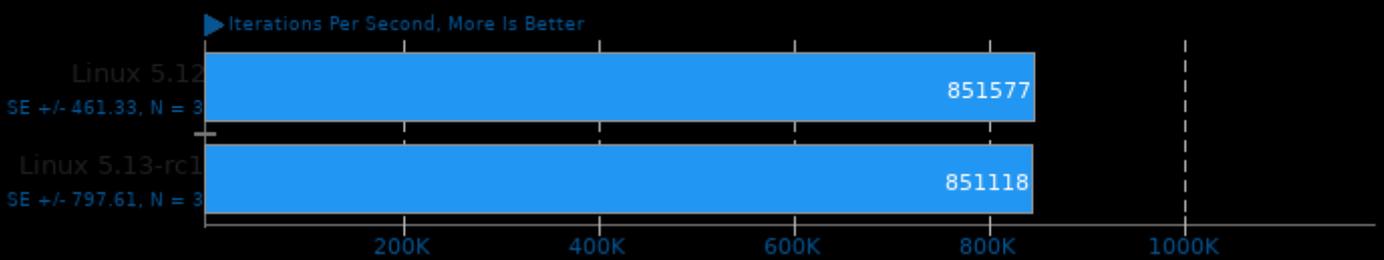
Test: OpenMP Leukocyte



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

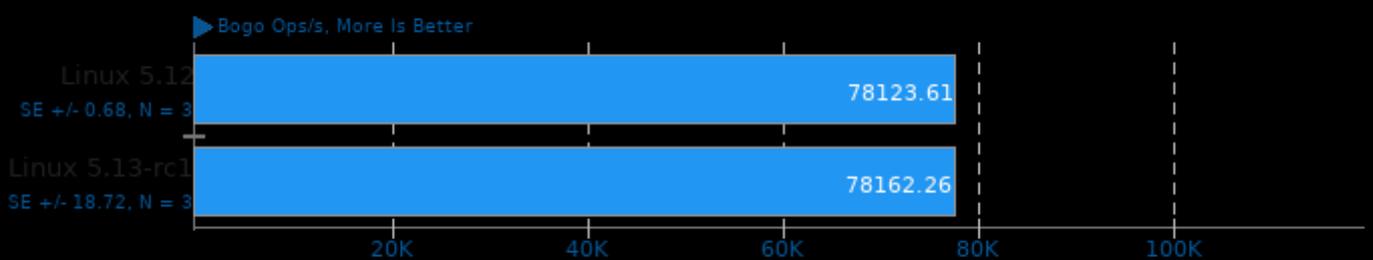
Cryptsetup

PBKDF2-whirlpool



Stress-NG 0.11.07

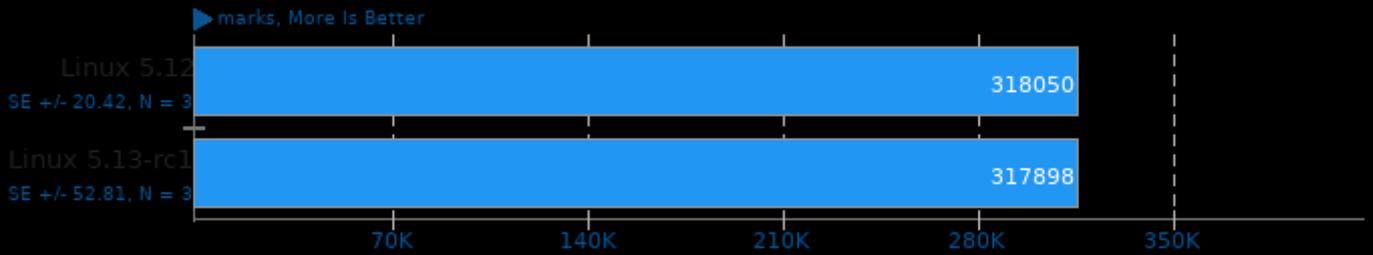
Test: RdRand



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

SecureMark 1.0.4

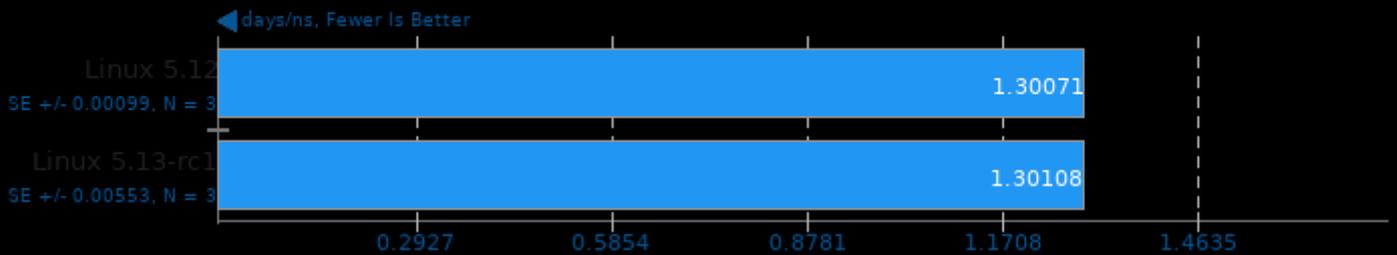
Benchmark: SecureMark-TLS



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

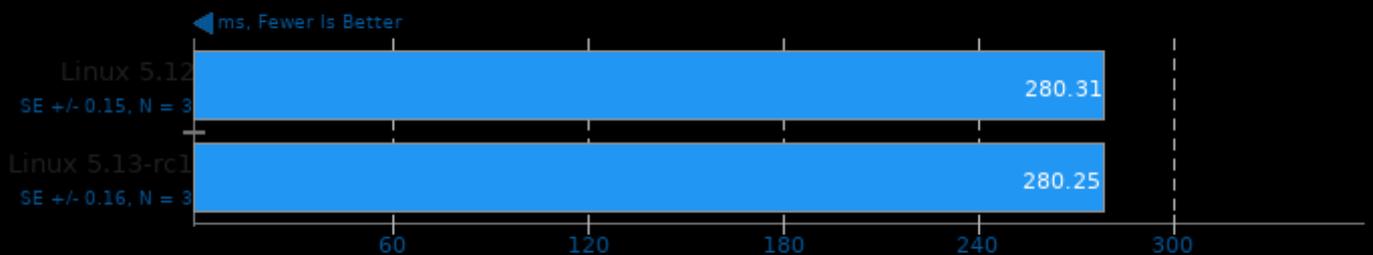
NAMD 2.14

ATPase Simulation - 327,506 Atoms



Selenium

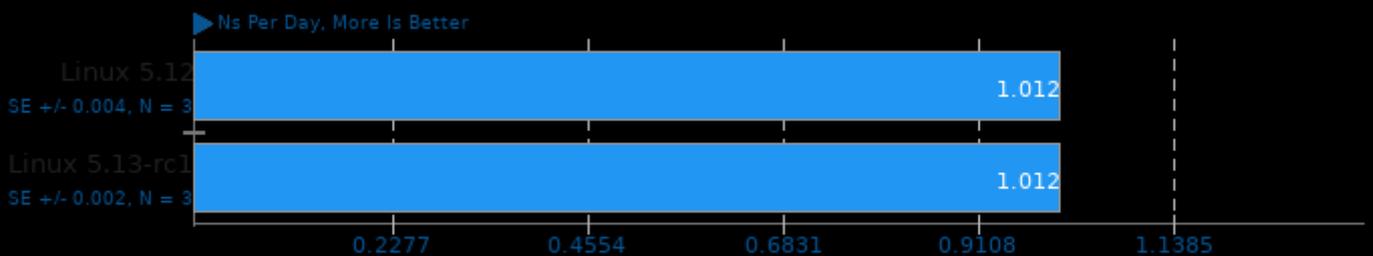
Benchmark: WASM collisionDetection - Browser: Google Chrome



1. chrome 90.0.4430.72

GROMACS 2021

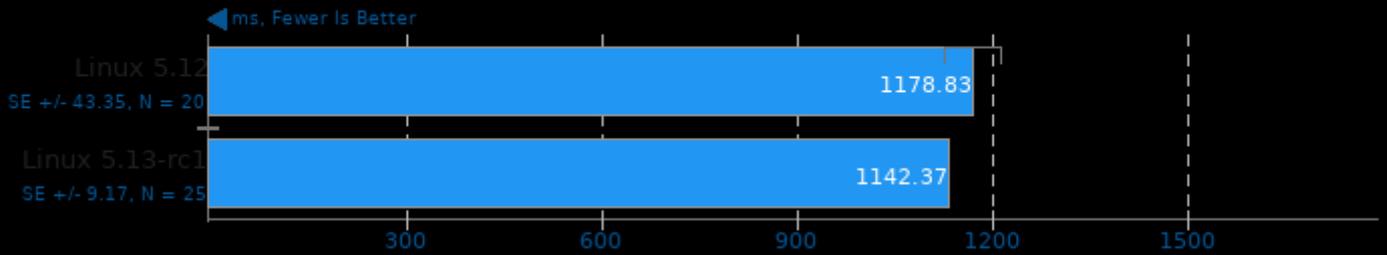
Input: water_GMX50_bare



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

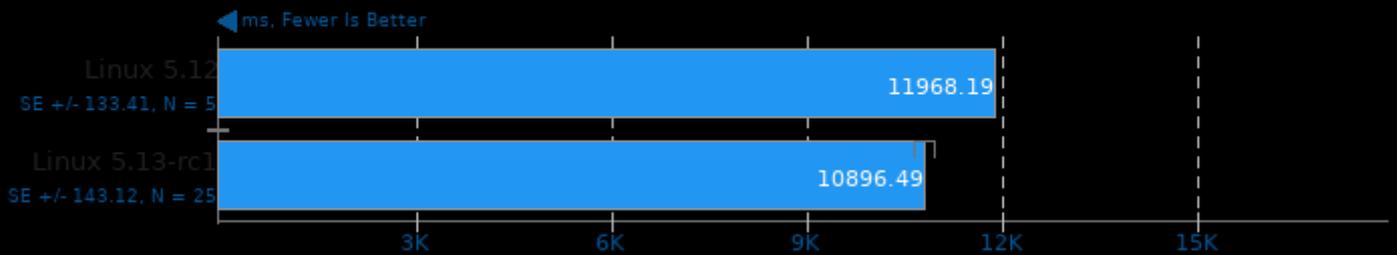
Renaissance 0.10.0

Test: Genetic Algorithm Using Jenetics + Futures



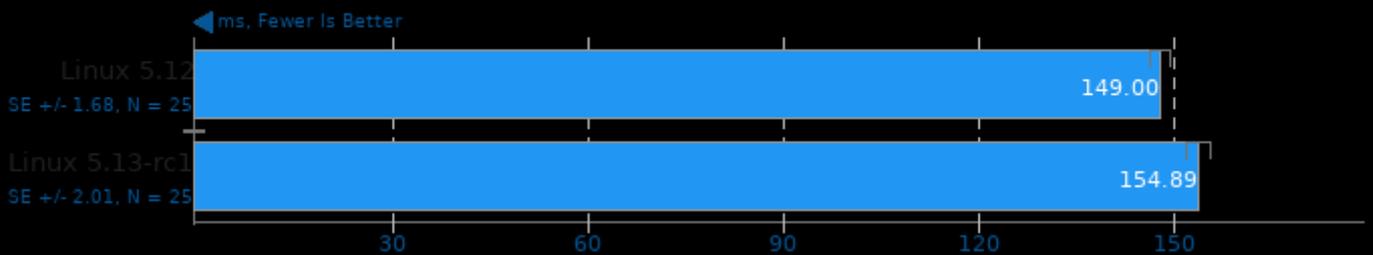
Renaissance 0.10.0

Test: Savina Reactors.IO



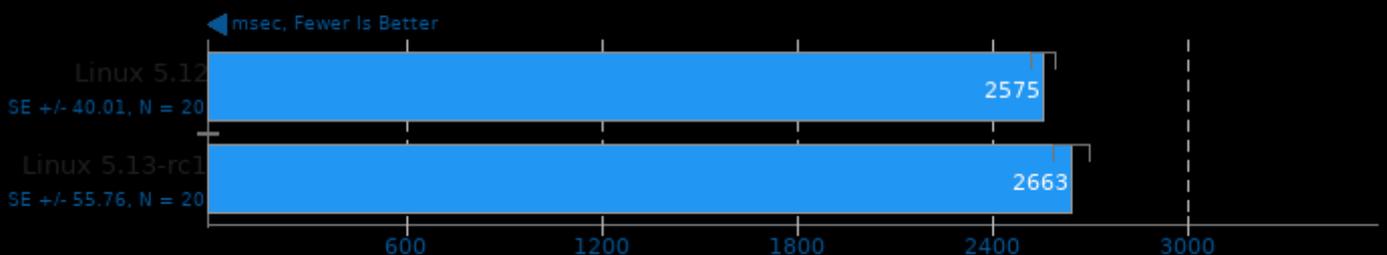
Renaissance 0.10.0

Test: Apache Spark Bayes



DaCapo Benchmark 9.12-MR1

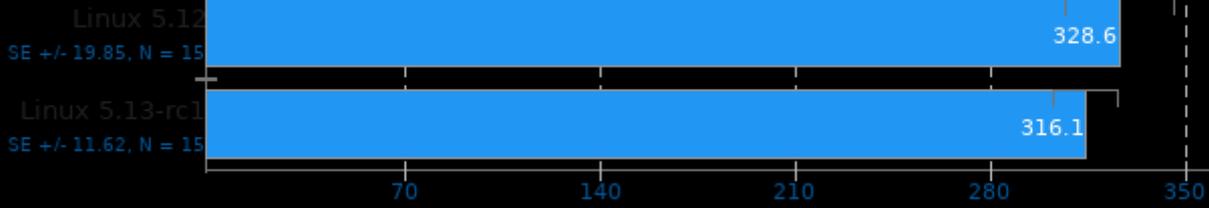
Java Test: H2



FS-Mark 3.3

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

Files/s, More Is Better

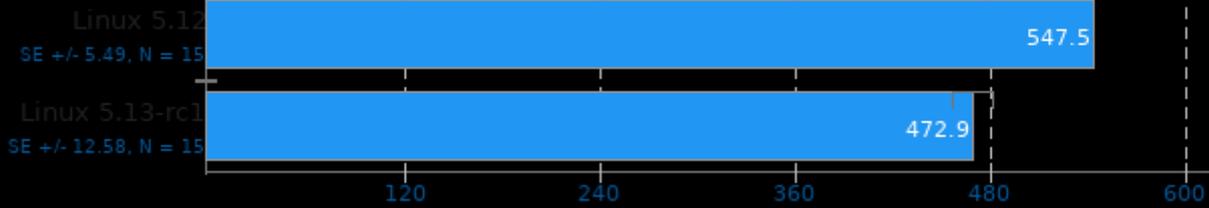


1. (CC) gcc options: -static

FS-Mark 3.3

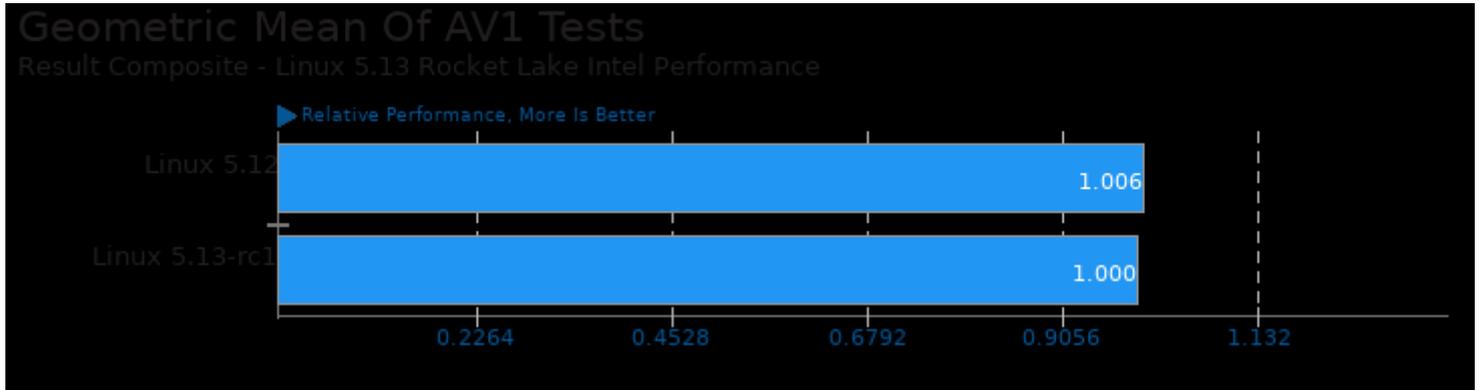
Test: 5000 Files, 1MB Size, 4 Threads

Files/s, More Is Better

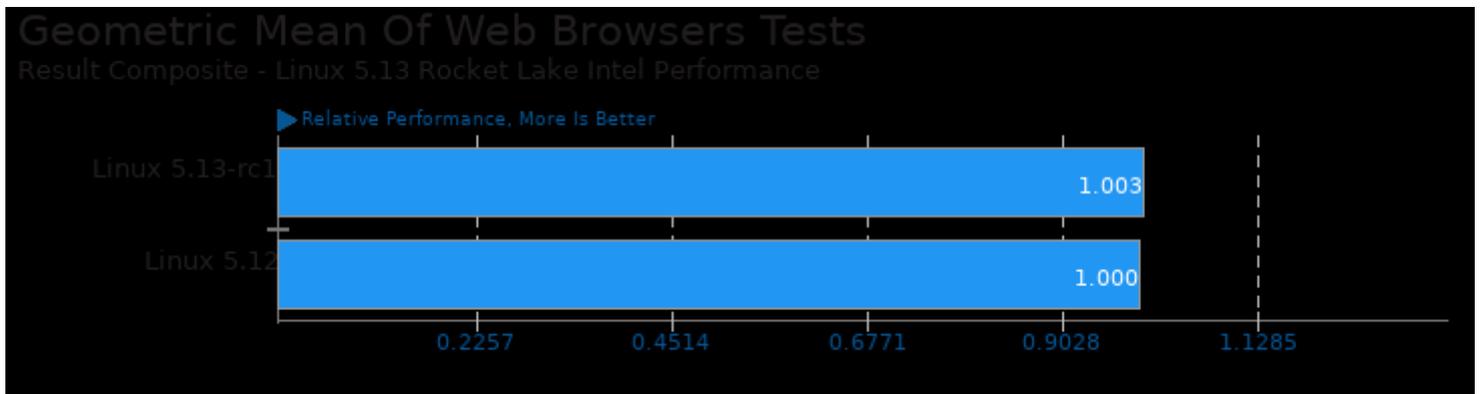


1. (CC) gcc options: -static

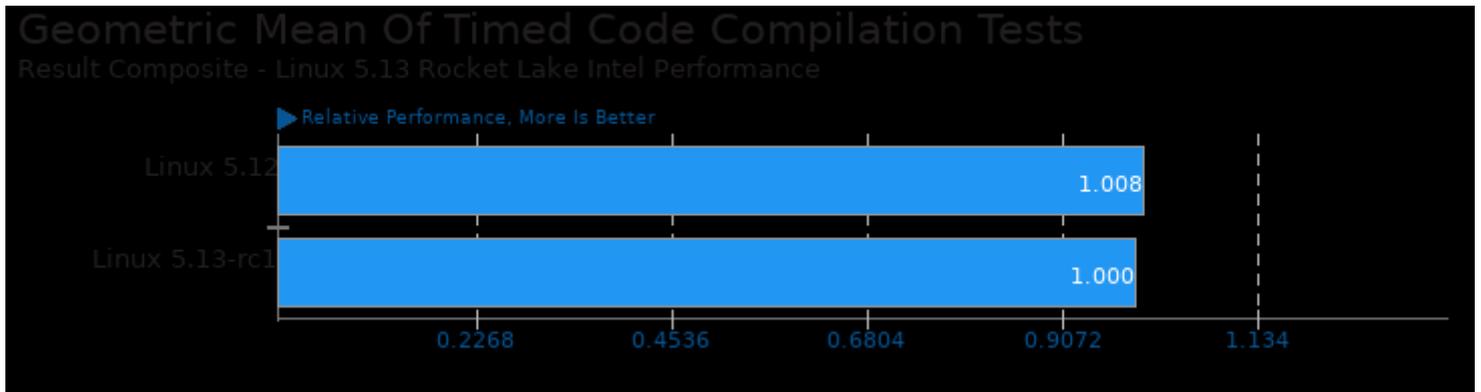
These geometric means are based upon test groupings / test suites for this result file.



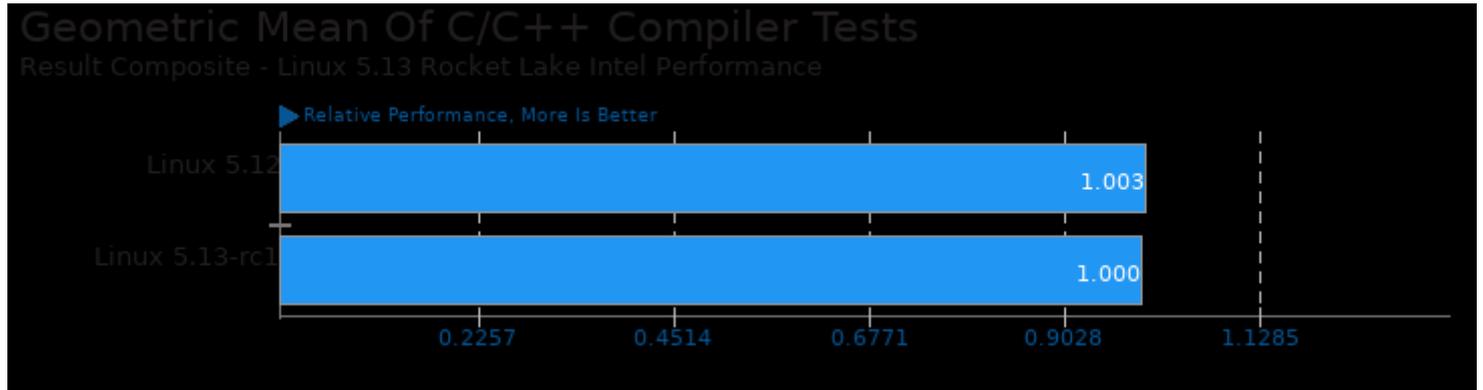
Geometric mean based upon tests: pts/svt-av1 and pts/libgav1



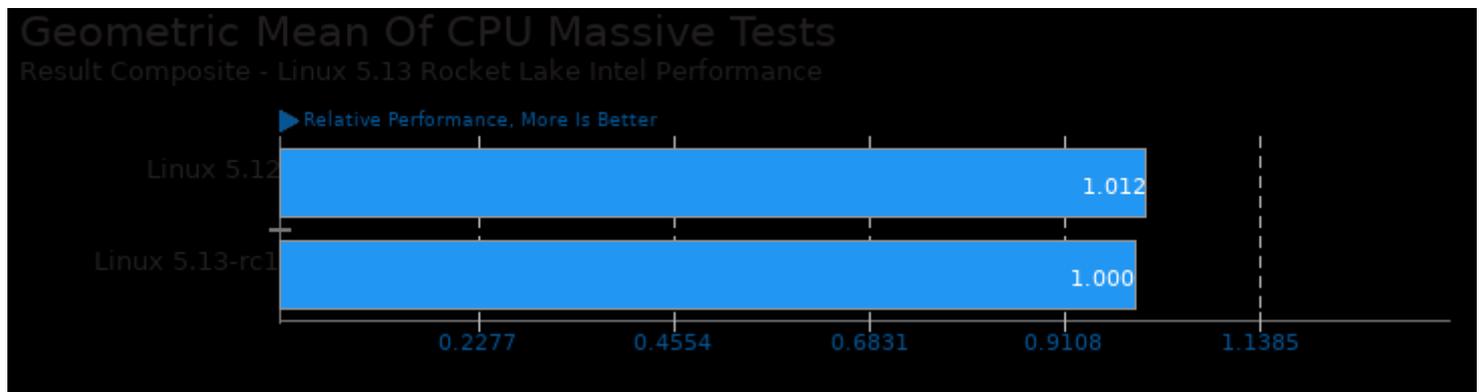
Geometric mean based upon tests: system/selenium



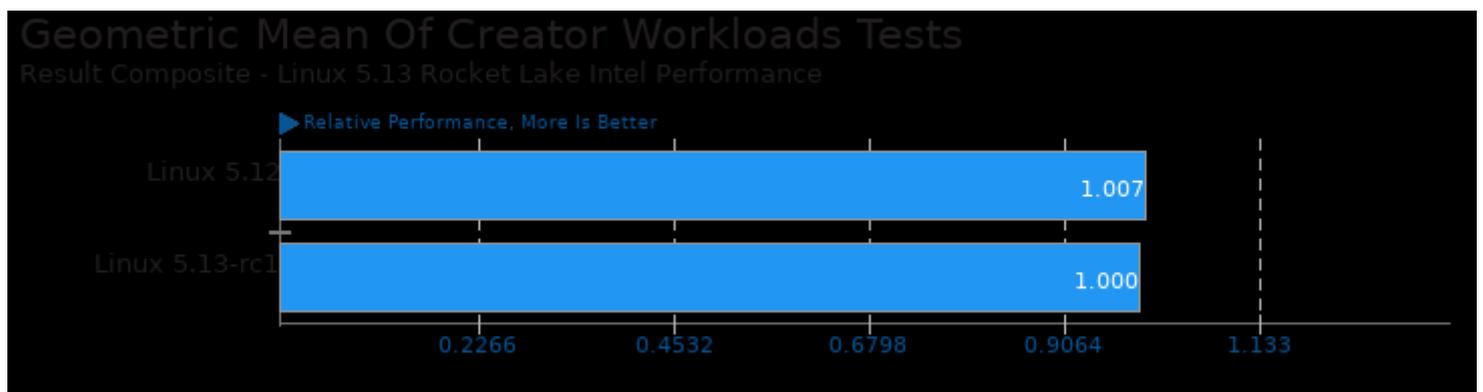
Geometric mean based upon tests: pts/build-linux-kernel, pts/build-llvm, pts/build-wasmer, pts/build-nodejs and pts/build-mesa



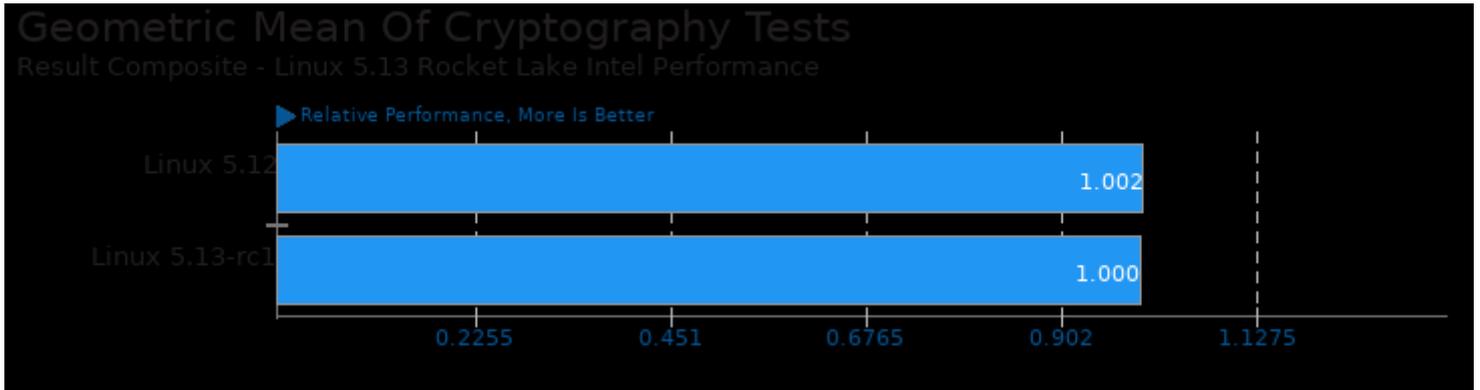
Geometric mean based upon tests: pts/stockfish, pts/build-llvm, pts/sqlite-speedtest, pts/libgav1, pts/svt-av1, pts/gromacs and pts/keydb



Geometric mean 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



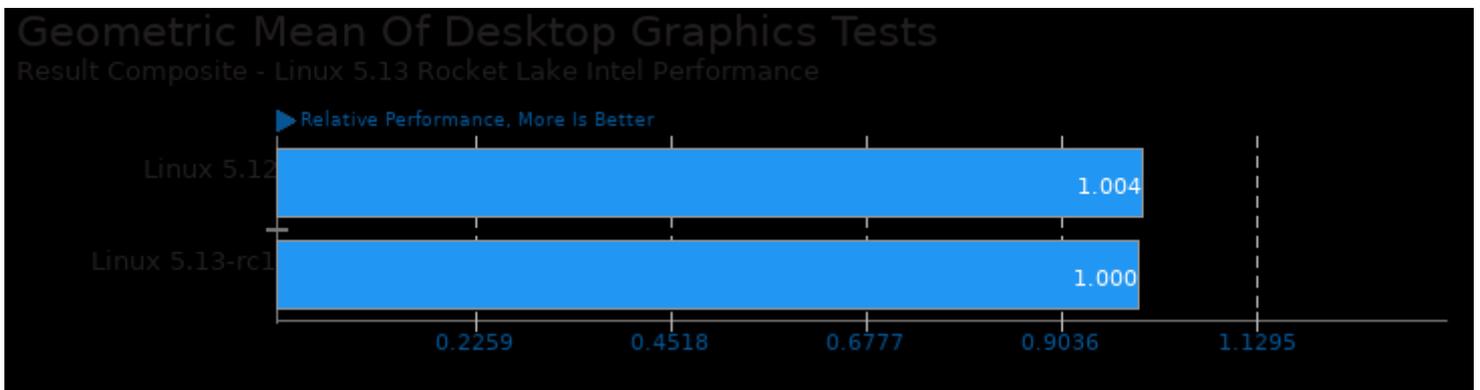
Geometric mean based upon tests: pts/svt-hevc, pts/svt-av1, pts/libgav1, pts/embree and pts/draco



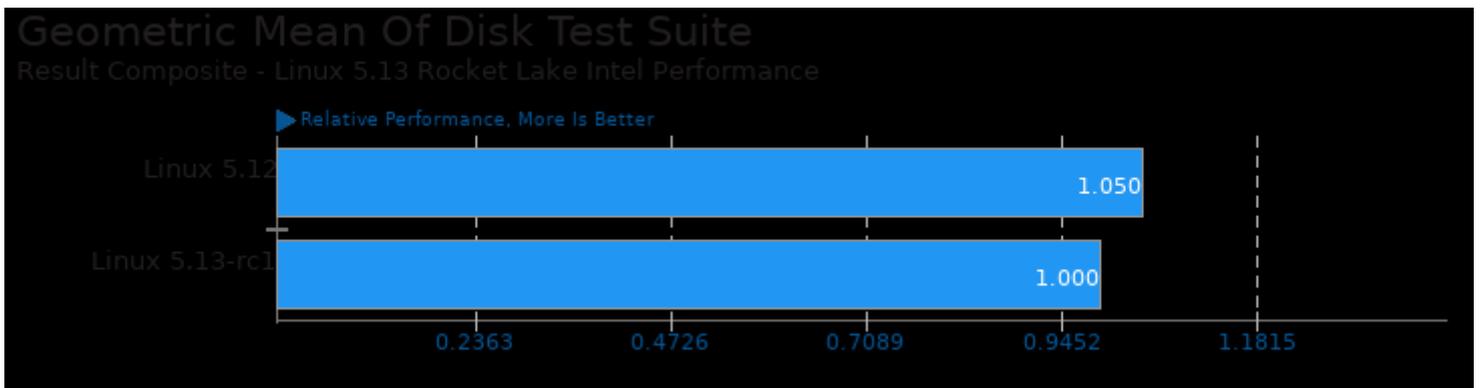
Geometric mean based upon tests: system/cryptsetup and pts/securemark



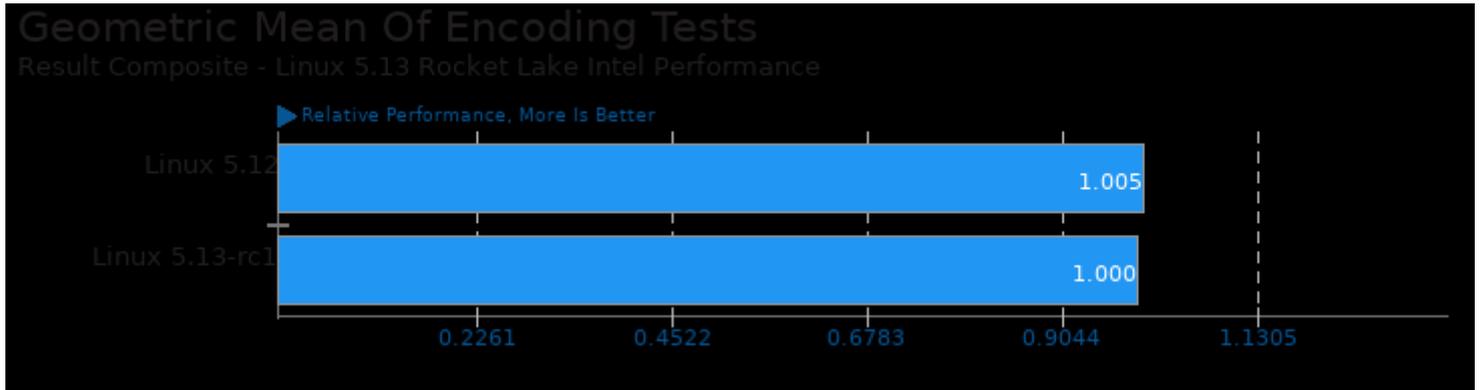
Geometric mean based upon tests: pts/sqlite-speedtest, pts/keydb and pts/influxdb



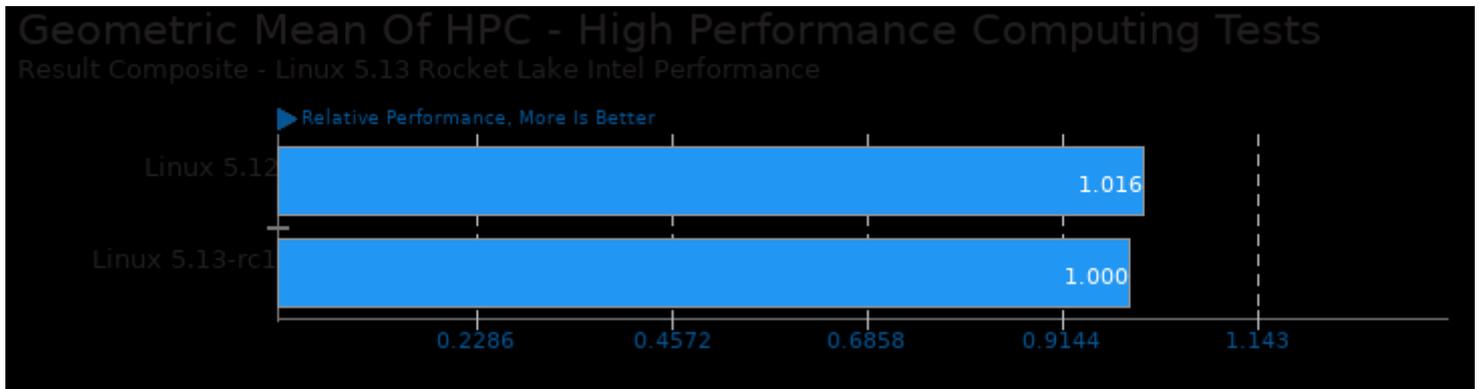
Geometric mean based upon tests: pts/xonotic, pts/tesseract and pts/paraview



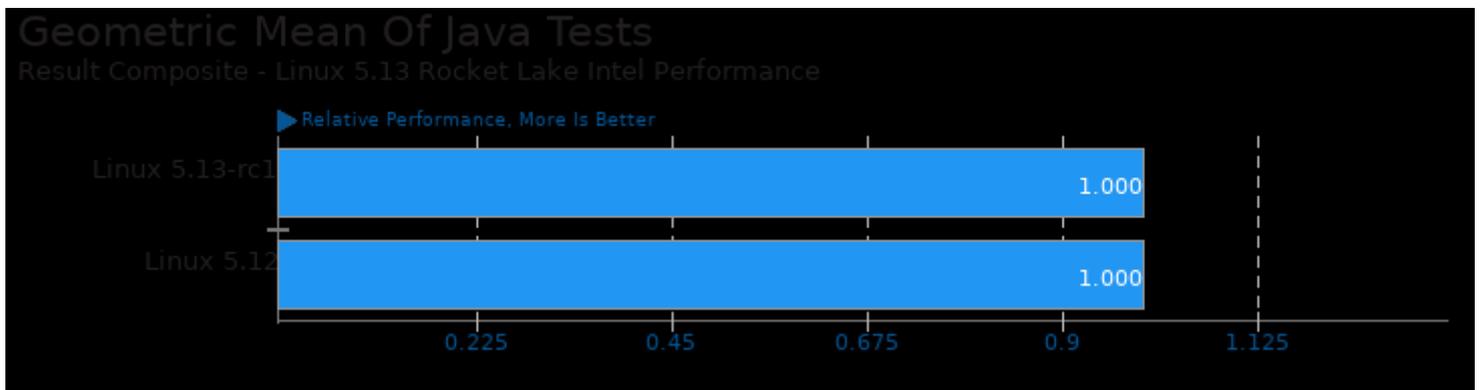
Geometric mean based upon tests: pts/fs-mark and pts/compilebench



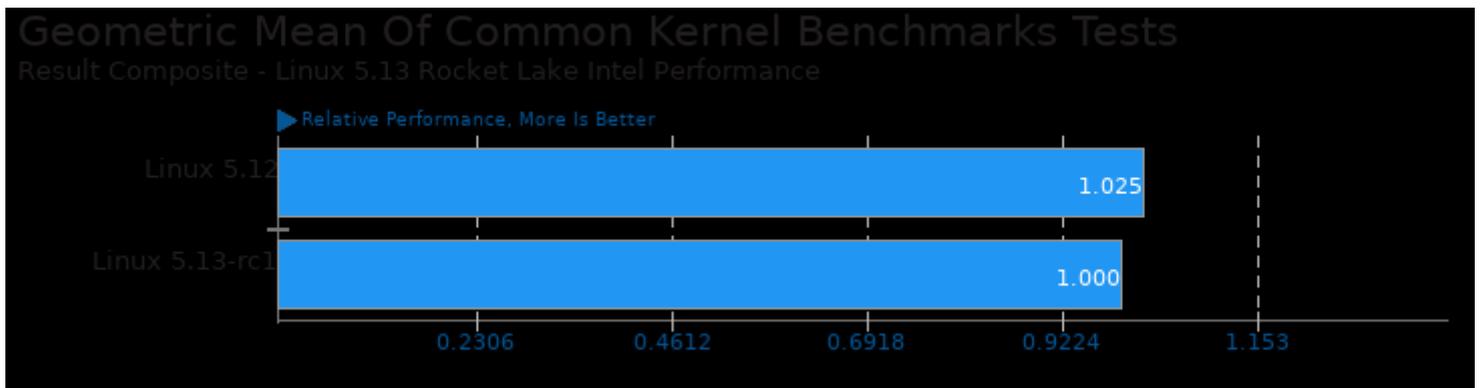
Geometric mean based upon tests: pts/svt-hevc, pts/svt-av1 and pts/libgav1



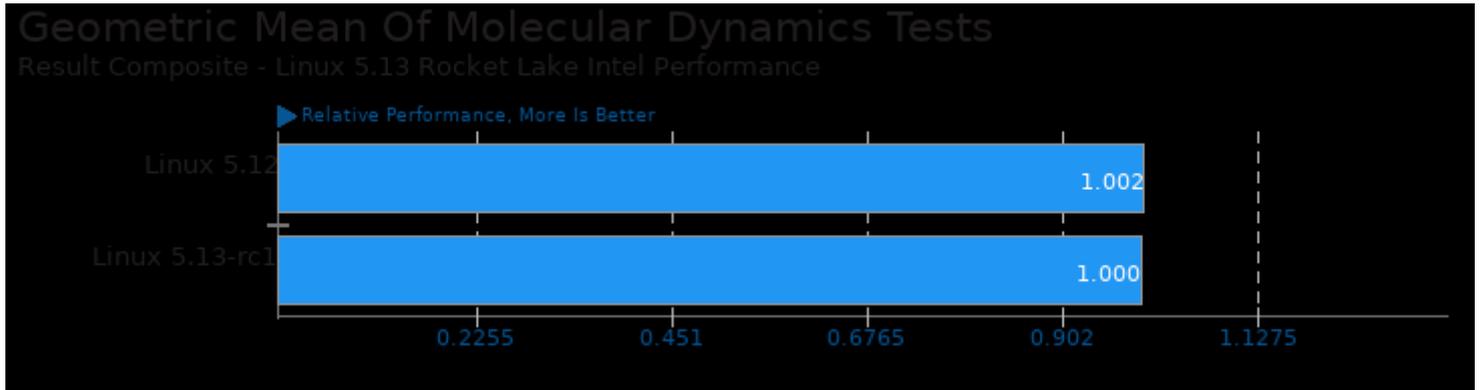
Geometric mean based upon tests: pts/rodinia, pts/parboil, pts/namd, pts/gromacs, pts/incompact3d and pts/qmcpack



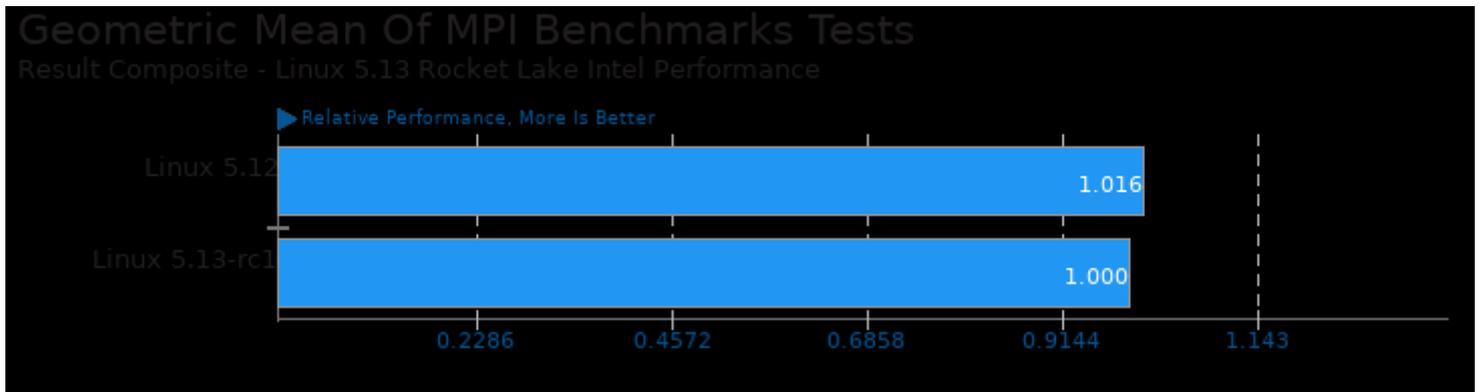
Geometric mean based upon tests: pts/dacapobench and pts/renaissance



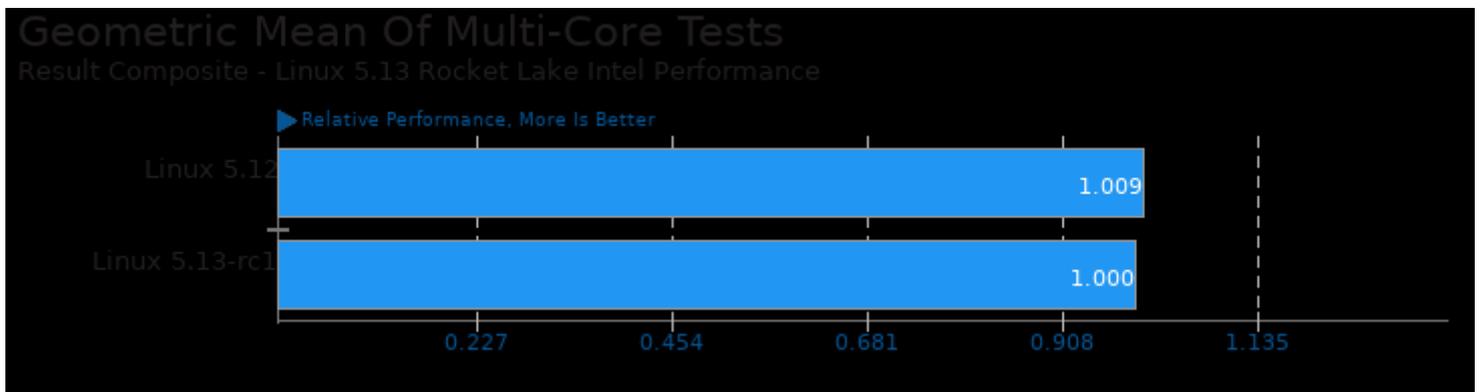
Geometric mean based upon tests: pts/sqlite-speedtest, pts/ctx-clock, pts/hackbench and pts/stress-ng



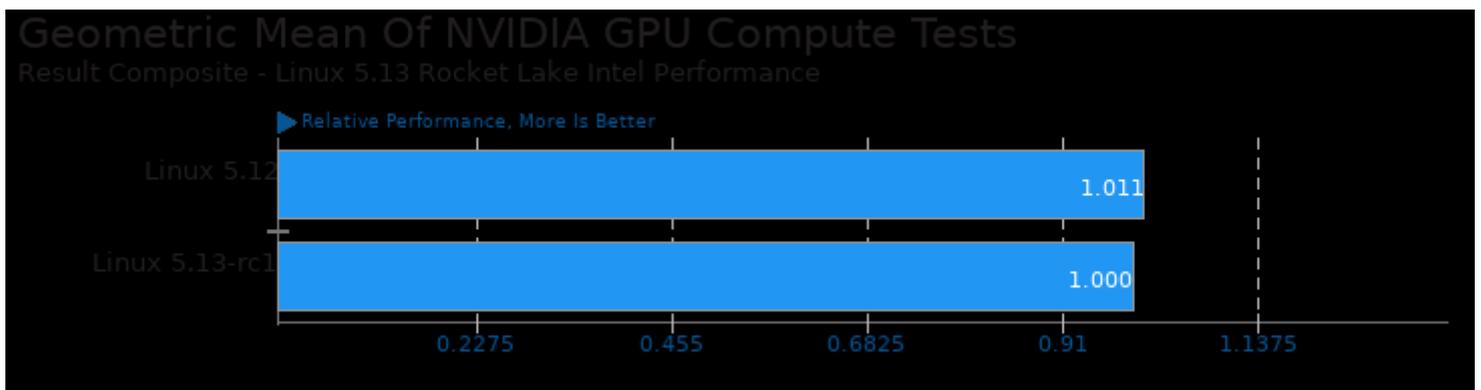
Geometric mean based upon tests: pts/namd, pts/gromacs and pts/incompact3d



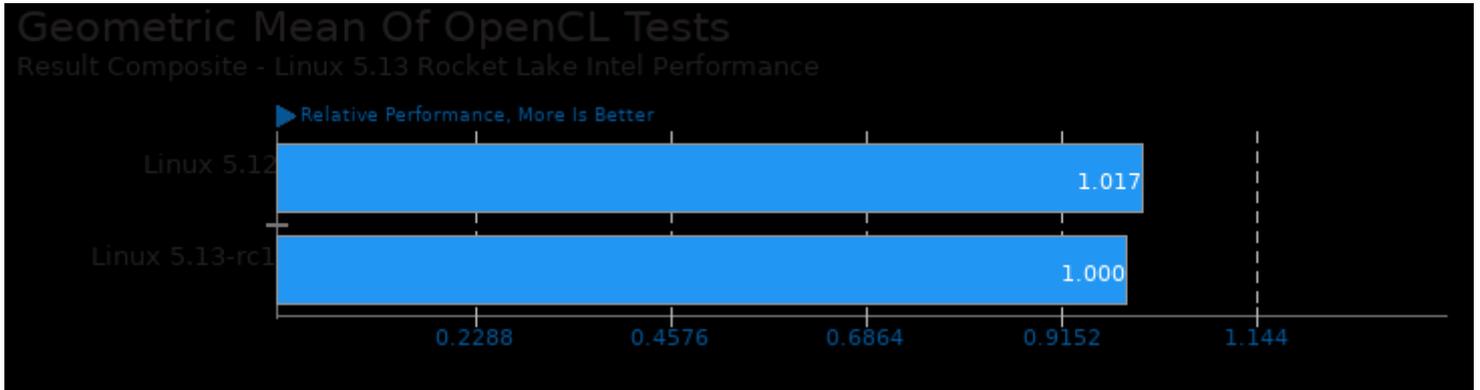
Geometric mean based upon tests: pts/incompact3d, pts/gromacs and pts/qmcpack



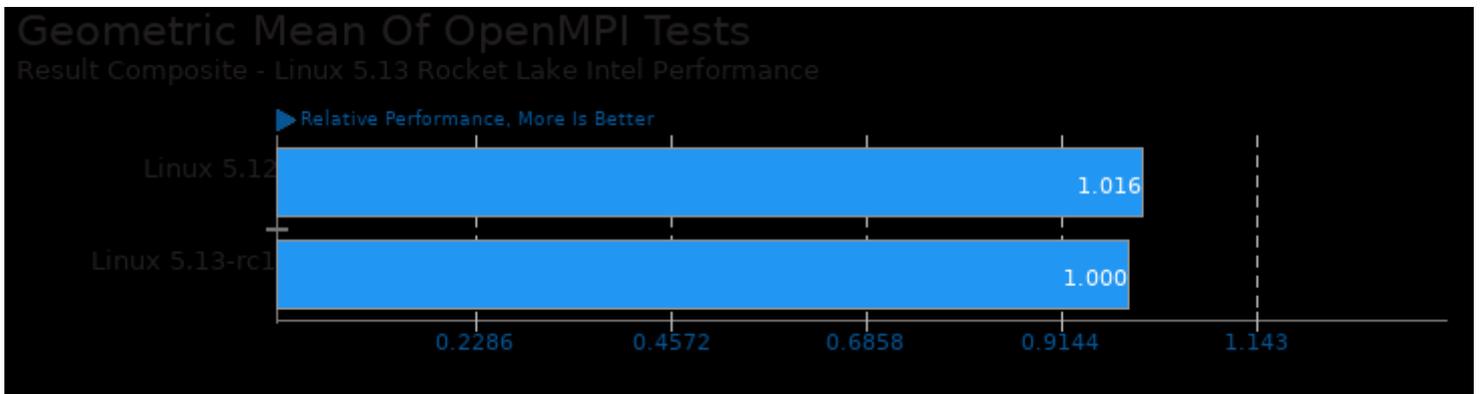
Geometric mean based upon tests: pts/stockfish, pts/svt-hevc, pts/svt-av1, pts/libgav1, pts/robinia, pts/parboil, pts/namd, pts/gromacs, pts/build-linux-kernel, pts/build-llvm, pts/build-wasmer, pts/build-nodejs, pts/build-mesa and pts/embree



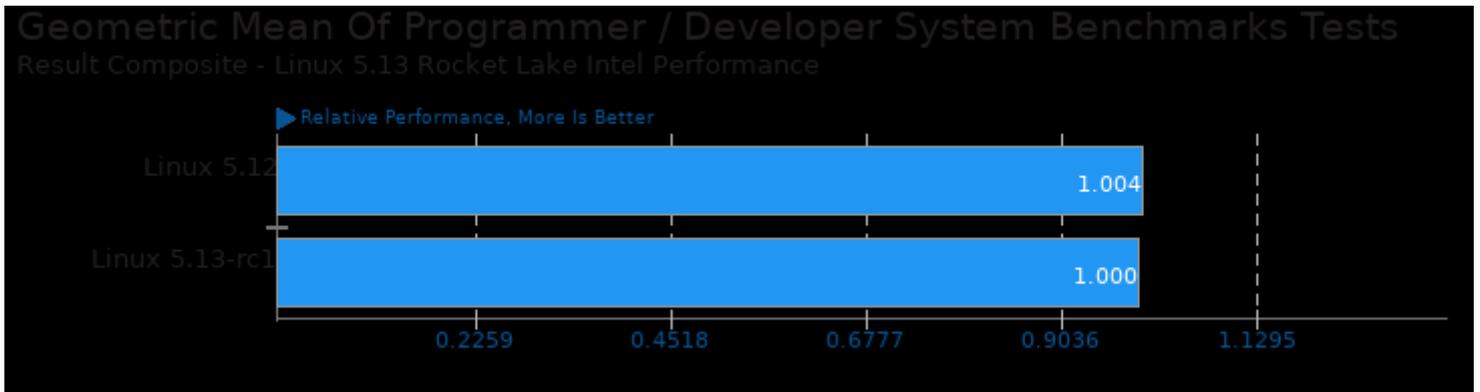
Geometric mean based upon tests: pts/gromacs, pts/rodinia, pts/realsr-ncnn and pts/waifu2x-ncnn



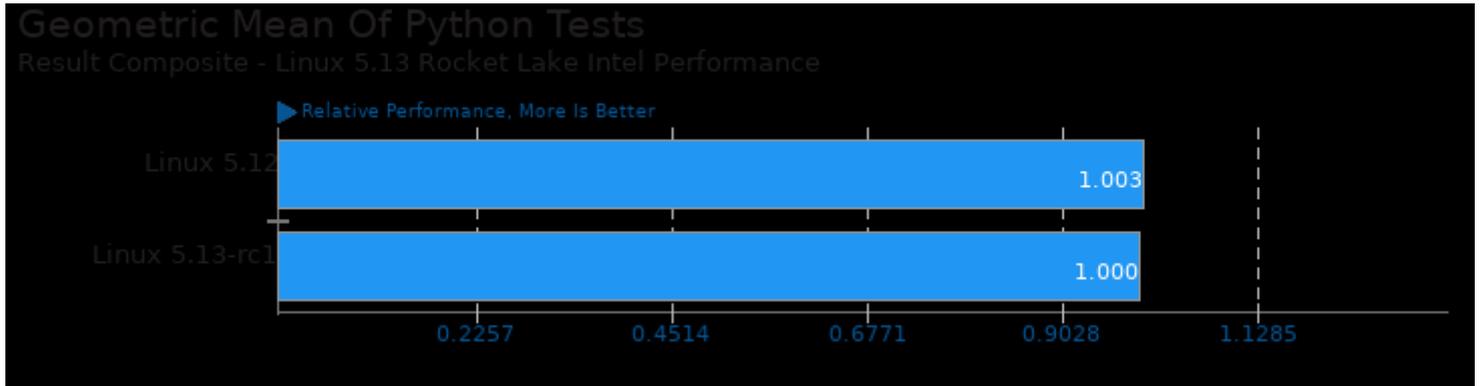
Geometric mean based upon tests: pts/rodinia and pts/parboil



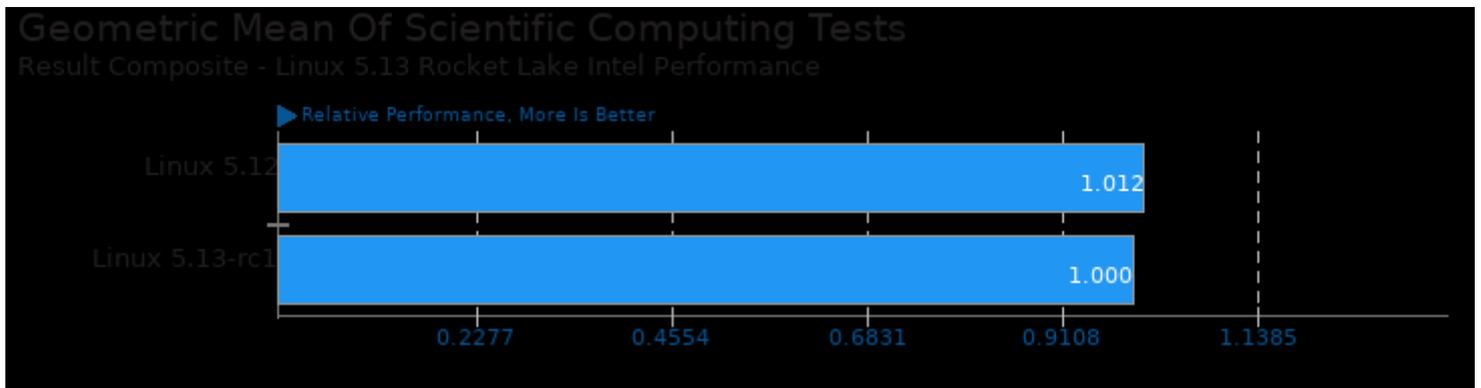
Geometric mean based upon tests: pts/parboil, pts/qmcpack, pts/rodinia, pts/incompact3d and pts/gromacs



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



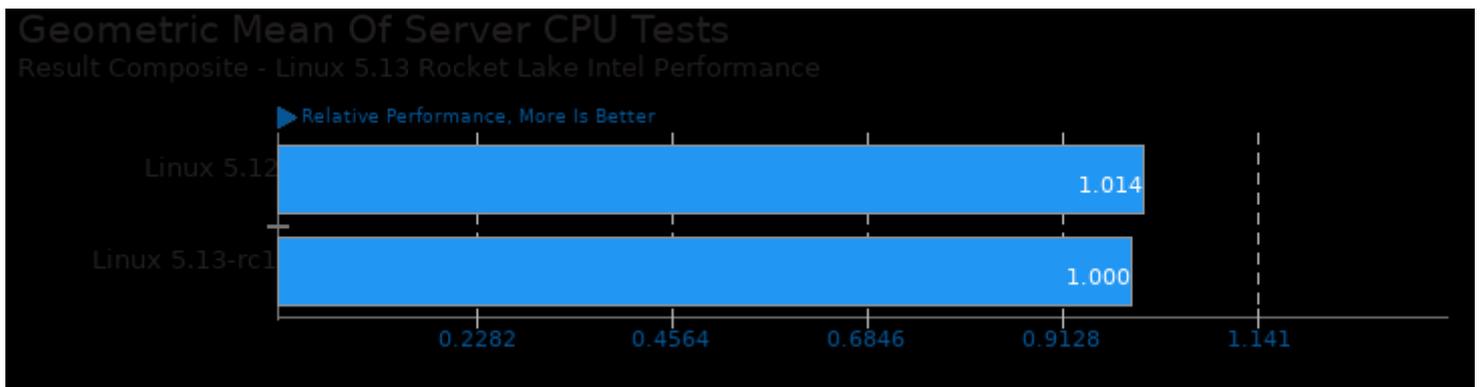
Geometric mean based upon tests: pts/parboil, system/selenium, pts/paraview, pts/build-mesa, pts/build-llvm, pts/build-nodejs and pts/compilebench



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

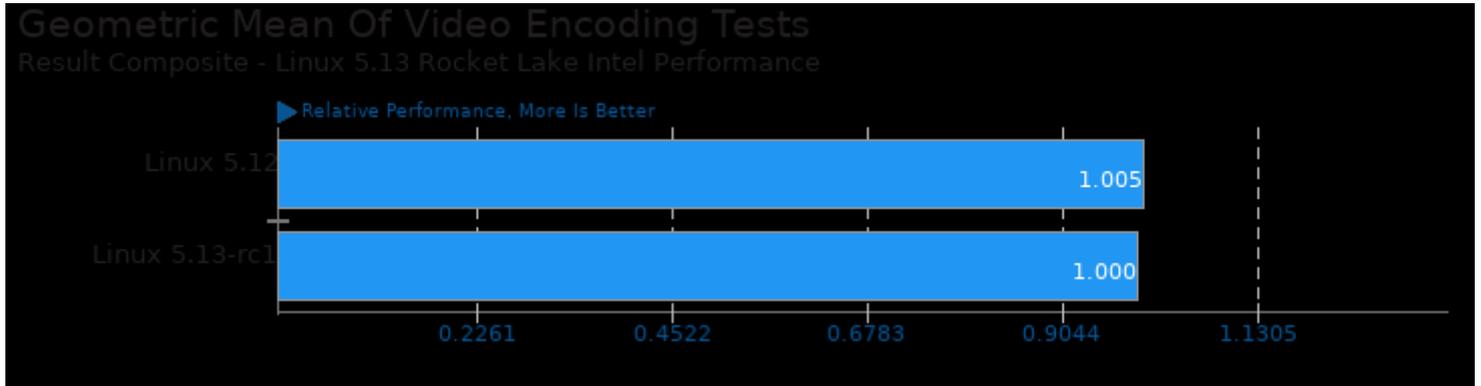


Geometric mean based upon tests: pts/keydb, pts/sqlite-speedtest and pts/influxdb

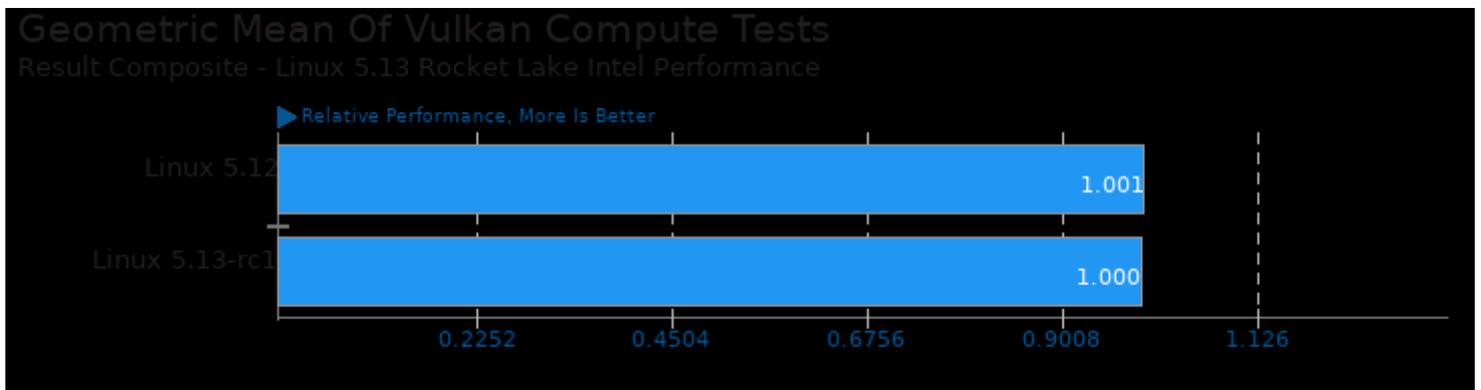


Geometric mean based upon tests: pts/rodinia, pts/namd, pts/dacapobench, pts/renaissance, pts/svt-av1, pts/svt-hevc,

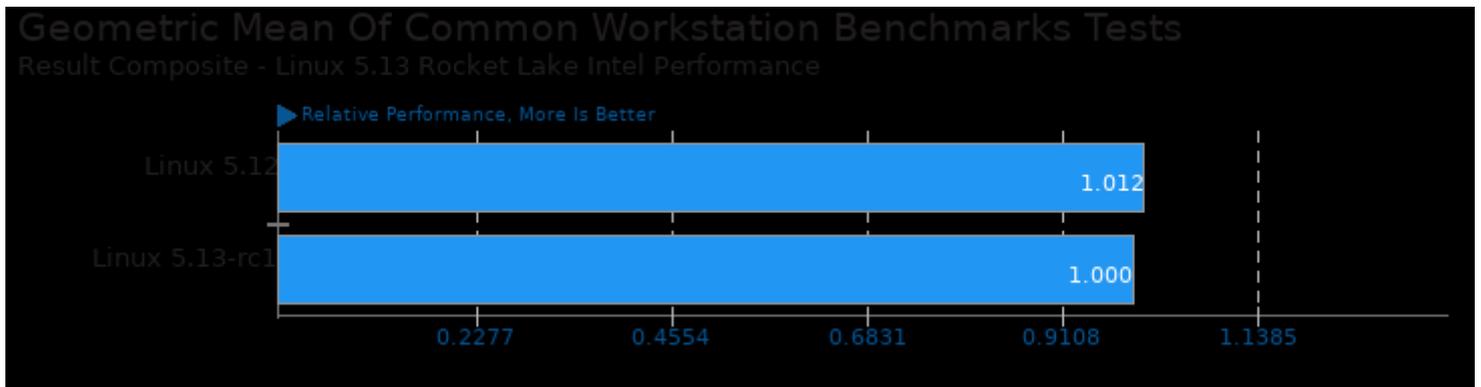
pts/stockfish, pts/build-linux-kernel, pts/build-llvm, pts/hackbench, pts/stress-ng and pts/ctx-clock



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



Geometric mean based upon tests: pts/realr-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 16:42.