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Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks

Intel Xeon Gold 6226R testing with a Supermicro X11SPL-F v1.02 (3.1 BIOS) and ASPEED on Ubuntu 20.10 via the Phoronix Test Suite.

Automated Executive Summary

Linux 5.15.83 had the most wins, coming in first place for 41% of the tests.

Based on the geometric mean of all complete results, the fastest (Linux 5.15.83) was 1.011x the speed of the slowest (Linux 6.1). Linux 5.10.130 was 0.995x the speed of Linux 5.15.83 and Linux 6.1 was 0.995x the speed of Linux 5.10.130.

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

Stress-NG (Test: Context Switching) at 2.677x
Stress-NG (Test: System V Message Passing) at 2.295x
Stress-NG (Test: MEMFD) at 1.51x
Stress-NG (Test: Malloc) at 1.4x
Stress-NG (Test: NUMA) at 1.395x
ctx_clock (Context Switch Time) at 1.299x
PostgreSQL (Scaling Factor: 100 - Clients: 500 - Mode: Read Only) at 1.262x
PostgreSQL (Scaling Factor: 100 - Clients: 500 - Mode: Read Only - Average Latency) at 1.262x

Stress-NG (*Test: MMAP*) at 1.258x

Stress-NG (*Test: Mutex*) at 1.222x.

Test Systems:

Linux 5.10.130

Processor: Intel Xeon Gold 6226R @ 3.90GHz (16 Cores / 32 Threads), Motherboard: Supermicro X11SPL-F v1.02 (3.1 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 192GB, Disk: 280GB INTEL SSDPED1D280GA, Graphics: ASPEED, Monitor: VE228, Network: 2 x Intel I210

OS: Ubuntu 20.10, Kernel: 5.10.130-0510130-generic (x86_64), Desktop: GNOME Shell 3.38.1, Display Server: X Server 1.20.9, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-poYruo/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgn-amdhsa=/build/gcc-10-poYruo/gcc-10-10.3.0/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-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v

Processor Notes: Scaling Governor: intel_cpf freq performance - CPU Microcode: 0x5003102

Python Notes: Python 3.8.10

Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Vulnerable: Clear buffers attempted no microcode; SMT vulnerable + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Vulnerable: eIBRS with unprivileged eBPF + srbs: Not affected + tsx_async_abort: Mitigation of TSX disabled

Linux 5.15.83

Processor: Intel Xeon Gold 6226R @ 3.90GHz (16 Cores / 32 Threads), Motherboard: Supermicro X11SPL-F v1.02 (3.1 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 192GB, Disk: 280GB INTEL SSDPED1D280GA, Graphics: ASPEED, Monitor: VE228, Network: 2 x Intel I210

OS: Ubuntu 20.10, Kernel: 5.15.83-051583-generic (x86_64), Desktop: GNOME Shell 3.38.1, Display Server: X Server 1.20.9, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-poYruo/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgn-amdhsa=/build/gcc-10-poYruo/gcc-10-10.3.0/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-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v

Processor Notes: Scaling Governor: intel_cpf freq performance - CPU Microcode: 0x5003102

Python Notes: Python 3.8.10

Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Vulnerable: Clear buffers attempted no microcode; SMT vulnerable + retbleed: Mitigation of Enhanced IBRS + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling PBRSB-eIBRS: SW sequence + srbs: Not affected + tsx_async_abort: Mitigation of TSX disabled

Linux 6.1

Processor: Intel Xeon Gold 6226R @ 3.90GHz (16 Cores / 32 Threads), Motherboard: Supermicro X11SPL-F v1.02 (3.1 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 192GB, Disk: 280GB INTEL SSDPED1D280GA, Graphics:

ASPEED, Monitor: VE228, Network: 2 x Intel I210

OS: Ubuntu 20.10, Kernel: 6.1.0-phx (x86_64), Desktop: GNOME Shell 3.38.1, Display Server: X Server 1.20.9, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise

```
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --enable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie
--enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug
--enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto
--enable-offload-targets=nvptx-none=/build/gcc-10-poYruo/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgnn-amdhsa=/build/gcc-10-poYruo/gcc-10-10.3.0/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-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32
--with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
```

Processor Notes: Scaling Governor: intel_cpfufreq performance - CPU Microcode: 0x5003102

Python Notes: Python 3.8.10

Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Vulnerable: Clear buffers attempted no microcode; SMT vulnerable + rebleed: Mitigation of Enhanced IBRS + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling PBRSB-eIBRS: SW sequence + srbds: Not affected + tsx_async_abort: Mitigation of TSX disabled

	Linux 5.10.130	Linux 5.15.83	Linux 6.1
7-Zip Compression - Compression Rating (MIPS)	106357	108058	106968
Normalized	98.43%	100%	98.99%
Standard Deviation	0.2%	0.6%	0.9%
7-Zip Compression - D.R (MIPS)	86432	86735	86680
Normalized	99.65%	100%	99.94%
Standard Deviation	0.5%	0.3%	0.5%
Aircrack-ng (k/s)	50606	50608	50609
Normalized	99.99%	100%	100%
Standard Deviation	0.4%	0.4%	0.5%
AOM AV1 - Speed 6 Two-Pass - Bosphorus	11.70	11.77	11.65
4K (FPS)			
Normalized	99.41%	100%	98.98%
Standard Deviation	0.3%	0.3%	0.4%
AOM AV1 - Speed 8 Realtime - Bosphorus	37.88	37.86	36.10
4K (FPS)			
Normalized	100%	99.95%	95.3%
Standard Deviation	0.4%	0.9%	0.4%
AOM AV1 - Speed 9 Realtime - Bosphorus	48.05	47.66	45.41
4K (FPS)			
Normalized	100%	99.19%	94.51%
Standard Deviation	0.2%	0.5%	0.4%
AOM AV1 - Speed 10 Realtime - Bosphorus	48.34	48.33	45.97
4K (FPS)			
Normalized	100%	99.98%	95.1%
Standard Deviation	0.4%	0.7%	0.5%
ASTC Encoder - Fast (MT/s)	193.1315	193.0244	192.9917
Normalized	100%	99.94%	99.93%
Standard Deviation	0%	0%	0%
ASTC Encoder - Medium (MT/s)	72.1595	72.1219	72.0972
Normalized	100%	99.95%	99.91%
Standard Deviation	0%	0.1%	0.1%

ASTC Encoder - Thorough (MT/s)	9.3225	9.3267	9.3103
Normalized	99.95%	100%	99.82%
Standard Deviation	0%	0.1%	0.2%
ASTC Encoder - Exhaustive (MT/s)	0.9371	0.9375	0.9368
Normalized	99.96%	100%	99.93%
Standard Deviation	0%	0%	0.1%
Blender - BMW27 - CPU-Only (sec)	106.13	106.38	106.46
Normalized	100%	99.76%	99.69%
Standard Deviation	0.1%	0.1%	0%
Blender - Classroom - CPU-Only (sec)	318.28	317.07	318.71
Normalized	99.62%	100%	99.49%
Standard Deviation	0.2%	0.1%	0.3%
Blender - Fishy Cat - CPU-Only (sec)	144.25	144.34	144.29
Normalized	100%	99.94%	99.97%
Standard Deviation	0.1%	0.4%	0.1%
Blender - Barbershop - CPU-Only (sec)	1146	1145	1145
Normalized	99.91%	100%	99.97%
Standard Deviation	0.1%	0%	0.1%
Blender - Pabellon Barcelona - CPU-Only	373.74	373.54	374.17
Normalized	99.95%	100%	99.83%
Standard Deviation	0.2%	0.1%	0.2%
BRL-CAD - V.P.M (VGR Performance Metric)	167771	166852	168334
Normalized	99.67%	99.12%	100%
C-Blosc - blosc1z shuffle (MB/s)	15238	15999	15256
Normalized	95.25%	100%	95.36%
Standard Deviation	0.7%	0.6%	0.3%
C-Blosc - blosc1z bitshuffle (MB/s)	10159	10556	10161
Normalized	96.24%	100%	96.26%
Standard Deviation	0.3%	0.2%	0.4%
ClickHouse - 1.R.W.A.D.F.R.C.C	205.76	204.26	198.51
(Queries/min, Geo Mean)			
Normalized	100%	99.27%	96.48%
Standard Deviation	2.9%	2.9%	0.8%
ClickHouse - 1.R.W.A.D.S.R (Queries/min, Geo Mean)	212.60	209.58	204.43
Normalized	100%	98.58%	96.16%
Standard Deviation	1.6%	2.2%	3.6%
ClickHouse - 1.R.W.A.D.T.R (Queries/min, Geo Mean)	212.42	215.02	212.92
Normalized	98.79%	100%	99.02%
Standard Deviation	1.8%	1.4%	0.9%
Cpuminer-Opt - Magi (kH/s)	374.94	373.55	373.45
Normalized	100%	99.63%	99.6%
Standard Deviation	2.2%	1.9%	2.2%
Cpuminer-Opt - x25x (kH/s)	640.06	641.61	638.64
Normalized	99.76%	100%	99.54%
Standard Deviation	0.1%	0.4%	0.1%
Cpuminer-Opt - scrypt (kH/s)	491.90	489.83	491.85
Normalized	100%	99.58%	99.99%
Standard Deviation	1.4%	1.9%	0.9%
Cpuminer-Opt - Deepcoin (kH/s)	14497	14500	14420
Normalized	99.98%	100%	99.45%
Standard Deviation	0.6%	0.6%	
Cpuminer-Opt - Ringcoin (kH/s)	2833	2812	2801
Normalized	100%	99.27%	98.85%

Standard Deviation	1.7%	0%	0.1%
Cpuminer-Opt - Blake-2 S (kH/s)	1149103	1150583	1137550
Normalized	99.87%	100%	98.87%
Standard Deviation	1%	1.6%	0.5%
Cpuminer-Opt - Garlicoin (kH/s)	6573	6594	6572
Normalized	99.68%	100%	99.66%
Standard Deviation	0.1%	0.3%	0.1%
Cpuminer-Opt - Skeincoin (kH/s)	135103	134833	134320
Normalized	100%	99.8%	99.42%
Standard Deviation	0.2%	0%	0.4%
Cpuminer-Opt - Myriad-Groestl (kH/s)	17363	17610	17477
Normalized	98.6%	100%	99.24%
Standard Deviation	2.9%	1.8%	1.3%
Cpuminer-Opt - LBC, LBRY Credits (kH/s)	96820	966663	96010
Normalized	100%	99.84%	99.16%
Standard Deviation	1.2%	0.3%	1.1%
Cpuminer-Opt - Q.S.2.P (kH/s)	218830	218493	217237
Normalized	100%	99.85%	99.27%
Standard Deviation	0.6%	0%	0.2%
Cpuminer-Opt - T.S.2.O (kH/s)	315913	313917	315723
Normalized	100%	99.37%	99.94%
Standard Deviation	1.4%	0.4%	1.2%
ctx_clock - C.S.T (Clocks)	154	179	200
Normalized	100%	86.03%	77%
Standard Deviation		0.6%	
Dragonflydb - 50 - 1:1 (Ops/sec)	978963	1123954	1130454
Normalized	86.6%	99.42%	100%
Standard Deviation	7.2%	0.1%	0.2%
Dragonflydb - 50 - 1:5 (Ops/sec)	1047699	1186278	1180450
Normalized	88.32%	100%	99.51%
Standard Deviation	0.1%	0.2%	0.2%
Dragonflydb - 50 - 5:1 (Ops/sec)	989149	1068663	1074996
Normalized	92.01%	99.41%	100%
Standard Deviation	1.4%	0.6%	0.1%
Dragonflydb - 200 - 1:1 (Ops/sec)	971725	1060251	1046604
Normalized	91.65%	100%	98.71%
Standard Deviation	0.3%	0.2%	1%
Dragonflydb - 200 - 1:5 (Ops/sec)	1021149	1117322	1099078
Normalized	91.39%	100%	98.37%
Standard Deviation	0.1%	0.6%	0.1%
Dragonflydb - 200 - 5:1 (Ops/sec)	918617	993338	979549
Normalized	92.48%	100%	98.61%
Standard Deviation	0.8%	0.1%	0.3%
EnCodec - 3 kbps (sec)	29.141	28.660	30.426
Normalized	98.35%	100%	94.2%
Standard Deviation	1.2%	2.9%	2.8%
EnCodec - 6 kbps (sec)	29.495	29.530	32.017
Normalized	100%	99.88%	92.12%
Standard Deviation	0.6%	0.7%	0.5%
EnCodec - 24 kbps (sec)	34.162	33.917	36.321
Normalized	99.28%	100%	93.38%
Standard Deviation	0.1%	1%	0.6%
EnCodec - 1.5 kbps (sec)	28.208	28.349	30.493
Normalized	100%	99.5%	92.51%
Standard Deviation	2.9%	2%	2.9%

Facebook RocksDB - Rand Fill (Op/s)	983199	982848	935285
Normalized	100%	99.96%	95.13%
Standard Deviation	1.9%	2.1%	0.5%
Facebook RocksDB - Rand Read (Op/s)	65094239	65233649	65337175
Normalized	99.63%	99.84%	100%
Standard Deviation	1.5%	0.4%	1%
Facebook RocksDB - Update Rand (Op/s)	625695	616626	594485
Normalized	100%	98.55%	95.01%
Standard Deviation	1%	0.3%	0.6%
Facebook RocksDB - Seq Fill (Op/s)	1204255	1193837	1134991
Normalized	100%	99.13%	94.25%
Standard Deviation	1.5%	0.5%	1.8%
Facebook RocksDB - Rand Fill Sync (Op/s)	216464	234969	218454
Normalized	92.12%	100%	92.97%
Standard Deviation	0.2%	0.5%	0.1%
Facebook RocksDB - Read While Writing	3100899	3043279	2985392
Normalized	100%	98.14%	96.28%
Standard Deviation	2.8%	1.7%	0.8%
Facebook RocksDB - R.R.W.R (Op/s)	2132608	2129359	2133528
Normalized	99.96%	99.8%	100%
Standard Deviation	1.3%	0.7%	0.9%
FLAC Audio Encoding - WAV To FLAC (sec)	21.110	21.098	21.376
Normalized	99.94%	100%	98.7%
Standard Deviation	0.3%	0.3%	0.4%
GraphicsMagick - Swirl (Iterations/min)	502	499	491
Normalized	100%	99.4%	97.81%
Standard Deviation	0.8%	0.5%	0.5%
GraphicsMagick - Rotate (Iterations/min)	757	731	668
Normalized	100%	96.57%	88.24%
Standard Deviation	2.9%	0.4%	3.1%
GraphicsMagick - Sharpen (Iterations/min)	199	199	197
Normalized	100%	100%	98.99%
Standard Deviation	1.2%	1%	1.2%
GraphicsMagick - Enhanced (Iterations/min)	315	314	311
Normalized	100%	99.68%	98.73%
Standard Deviation	0.4%	0.4%	0.4%
GraphicsMagick - Resizing (Iterations/min)	1333	1321	1299
Normalized	100%	99.1%	97.45%
Standard Deviation	1%	0.4%	0.4%
GraphicsMagick - Noise-Gaussian (Iterations/min)	335	331	322
Normalized	100%	98.81%	96.12%
Standard Deviation		0.9%	
GraphicsMagick - HWB Color Space (Iterations/min)	976	957	872
Normalized	100%	98.05%	89.34%
Standard Deviation		0.3%	0.3%
JPEG XL Decoding libjxl - 1 (MP/s)	38.17	37.90	36.37
Normalized	100%	99.29%	95.28%
Standard Deviation	0.3%	0.2%	0.1%
JPEG XL Decoding libjxl - All (MP/s)	208.79	209.18	181.54
Normalized	99.81%	100%	86.79%
Standard Deviation	1.1%	0.3%	2%
JPEG XL libjxl - PNG - 80 (MP/s)	7.70	7.71	7.36
Normalized	99.87%	100%	95.46%

JPEG XL libjxl - PNG - 90 (MP/s)	Standard Deviation	0.2%	0.1%	0.2%
	Normalized	7.58	7.54	7.20
JPEG XL libjxl - JPEG - 80 (MP/s)	Standard Deviation	0.3%	0.4%	0.4%
	Normalized	7.45	7.40	7.08
JPEG XL libjxl - JPEG - 90 (MP/s)	Standard Deviation	0.2%	0.1%	0.3%
	Normalized	7.30	7.25	6.94
JPEG XL libjxl - PNG - 100 (MP/s)	Standard Deviation	0.2%	0.1%	0.1%
	Normalized	0.54	0.54	0.53
JPEG XL libjxl - JPEG - 100 (MP/s)	Standard Deviation	0%	0%	0%
	Normalized	0.53	0.53	0.52
LAMMPS Molecular Dynamics Simulator - 20k Atoms (ns/day)	Standard Deviation	10.427	10.414	10.399
	Normalized	100%	99.88%	99.73%
LAMMPS Molecular Dynamics Simulator - Rhodopsin Protein (ns/day)	Standard Deviation	10.659	10.639	10.608
	Normalized	100%	99.81%	99.52%
libavif avifenc - 0 (sec)	Standard Deviation	0.1%	0.2%	0.3%
	Normalized	145.012	144.709	145.036
libavif avifenc - 2 (sec)	Standard Deviation	0.3%	0.2%	0.2%
	Normalized	70.517	71.065	71.201
libavif avifenc - 6 (sec)	Standard Deviation	0.1%	1%	0.6%
	Normalized	6.689	6.749	6.798
libavif avifenc - 6, Lossless (sec)	Standard Deviation	1.5%	1.4%	0.9%
	Normalized	11.376	11.425	11.580
libavif avifenc - 10, Lossless (sec)	Standard Deviation	0.7%	0.1%	0.4%
	Normalized	6.637	6.666	6.909
miniBUDE - OpenMP - BM1 (GFInst/s)	Standard Deviation	0.5%	0.4%	0.7%
	Normalized	530.266	529.240	535.565
miniBUDE - OpenMP - BM1 (Billion Interactions/s)	Standard Deviation	0%	0.1%	0.1%
	Normalized	21.211	21.170	21.422
miniBUDE - OpenMP - BM2 (GFInst/s)	Standard Deviation	0%	0.1%	0.1%
	Normalized	534.738	532.924	538.790
miniBUDE - OpenMP - BM2 (Billion Interactions/s)	Standard Deviation	0.1%	0%	0.1%
	Normalized	21.389	21.317	21.552
Mobile Neural Network - nasnet (ms)	Standard Deviation	0.1%	0%	0.1%
	Normalized	14.910	14.880	15.122
	Normalized	99.8%	100%	98.4%

	Standard Deviation	1.4%	1.2%	3%
Mobile Neural Network - mobilenetV3 (ms)	2.091	2.071		2.083
Normalized	99.04%	100%		99.42%
Standard Deviation	0.8%	0.7%		1.3%
Mobile Neural Network - squeezenetv1.1	2.592	2.537		2.606
Normalized	97.88%	100%		97.35%
Standard Deviation	1.4%	1%		1.3%
Mobile Neural Network - resnet-v2-50 (ms)	10.148	9.850		9.932
Normalized	97.06%	100%		99.17%
Standard Deviation	1.7%	0.4%		1.1%
Mobile Neural Network - SqueezeNetV1.0	4.892	4.897		4.969
Normalized	100%	99.9%		98.45%
Standard Deviation	1.5%	0.3%		1.1%
Mobile Neural Network - MobileNetV2_224	3.855	3.752		3.831
Normalized	97.33%	100%		97.94%
Standard Deviation	0.3%	0.9%		1.5%
Mobile Neural Network - mobilenet-v1-1.0	2.678	2.639		2.640
Normalized	98.54%	100%		99.96%
Standard Deviation	2.9%	3.1%		3.2%
Mobile Neural Network - inception-v3 (ms)	22.733	22.438		22.789
Normalized	98.7%	100%		98.46%
Standard Deviation	2.7%	2.9%		4.3%
Natron - Spaceship (FPS)	3.6	3.6		3.6
Standard Deviation	0%	0%		0%
NCNN - CPU - mobilenet (ms)	14.54	14.71		14.45
Normalized	99.38%	98.23%		100%
Standard Deviation	0.3%	3%		0.1%
NCNN - CPU-v2-v2 - mobilenet-v2 (ms)	5.56	5.53		5.57
Normalized	99.46%	100%		99.28%
Standard Deviation	0.2%	0.3%		0.2%
NCNN - CPU-v3-v3 - mobilenet-v3 (ms)	4.95	4.95		4.95
Standard Deviation	0.2%	2.1%		0.3%
NCNN - CPU - shufflenet-v2 (ms)	5.66	5.59		5.63
Normalized	98.76%	100%		99.29%
Standard Deviation	0.5%	0.3%		0.3%
NCNN - CPU - mnasnet (ms)	4.91	4.85		4.89
Normalized	98.78%	100%		99.18%
Standard Deviation	0.9%	0.2%		0.2%
NCNN - CPU - efficientnet-b0 (ms)	7.06	6.99		7.04
Normalized	99.01%	100%		99.29%
Standard Deviation	0.4%	0.3%		0.1%
NCNN - CPU - blazeface (ms)	2.38	2.29		2.36
Normalized	96.22%	100%		97.03%
Standard Deviation	0.4%	0.2%		0.5%
NCNN - CPU - googlenet (ms)	11.57	11.46		11.48
Normalized	99.05%	100%		99.83%
Standard Deviation	0.8%	0.4%		0.3%
NCNN - CPU - vgg16 (ms)	26.95	27.69		26.52
Normalized	98.4%	95.77%		100%
Standard Deviation	0.8%	8.9%		0.6%
NCNN - CPU - resnet18 (ms)	8.09	8.05		7.85
Normalized	97.03%	97.52%		100%
Standard Deviation	0.8%	6.6%		0.3%
NCNN - CPU - alexnet (ms)	5.46	5.48		5.46
Normalized	100%	99.64%		100%

	Standard Deviation	0.4%	3.6%	0.4%
NCNN - CPU - resnet50 (ms)	14.20	14.21	13.83	
	Normalized	97.39%	97.33%	100%
	Standard Deviation	0.6%	5.8%	1.7%
NCNN - CPU - yolov4-tiny (ms)	23.60	23.89	23.35	
	Normalized	98.94%	97.74%	100%
	Standard Deviation	0.5%	4%	0.7%
NCNN - CPU - squeezenet_ssd (ms)	17.13	16.85	16.76	
	Normalized	97.84%	99.47%	100%
	Standard Deviation	1.2%	1.7%	1.4%
NCNN - CPU - regnety_400m (ms)	18.83	18.67	18.70	
	Normalized	99.15%	100%	99.84%
	Standard Deviation	1.4%	0.2%	0.3%
NCNN - CPU - vision_transformer (ms)	160.27	161.23	160.39	
	Normalized	100%	99.4%	99.93%
	Standard Deviation	1%	0.6%	0.7%
NCNN - CPU - FastestDet (ms)	7.02	6.91	6.96	
	Normalized	98.43%	100%	99.28%
	Standard Deviation	0.8%	0.7%	0.5%
nekRS - TurboPipe Periodic (FLOP/s)	70649766667	70923633333	70481500000	
	Normalized	99.61%	100%	99.38%
	Standard Deviation	0.4%	0.5%	0.1%
Neural Magic DeepSparse - N.D.C.o.b.u.o.l - A.M.S (items/sec)	10.5210	10.4539	10.4097	
	Normalized	100%	99.36%	98.94%
	Standard Deviation	0.3%	0.9%	1.1%
Neural Magic DeepSparse - N.D.C.o.b.u.o.l - A.M.S (ms/batch)	758.0277	759.3525	764.7425	
	Normalized	100%	99.83%	99.12%
	Standard Deviation	0.2%	0.5%	1%
Neural Magic DeepSparse - N.D.C.o.b.u.o.l - S.S.S (items/sec)	9.5996	9.6141	9.5393	
	Normalized	99.85%	100%	99.22%
	Standard Deviation	0.5%	0.6%	1.5%
Neural Magic DeepSparse - N.D.C.o.b.u.o.l - S.S.S (ms/batch)	104.1622	104.0054	104.8348	
	Normalized	99.85%	100%	99.21%
	Standard Deviation	0.5%	0.6%	1.5%
Neural Magic DeepSparse - N.Q.A.B.b.u.S.1.P - A.M.S (items/sec)	55.4233	55.5849	55.4366	
	Normalized	99.71%	100%	99.73%
	Standard Deviation	0.5%	0.4%	0.5%
Neural Magic DeepSparse - N.Q.A.B.b.u.S.1.P - A.M.S (ms/batch)	144.2410	143.8065	144.2114	
	Normalized	99.7%	100%	99.72%
	Standard Deviation	0.5%	0.4%	0.5%
Neural Magic DeepSparse - N.Q.A.B.b.u.S.1.P - S.S.S (items/sec)	43.7612	42.9013	43.3202	
	Normalized	100%	98.04%	98.99%
	Standard Deviation	1%	2.9%	0.8%
Neural Magic DeepSparse - N.Q.A.B.b.u.S.1.P - S.S.S (ms/batch)	22.8396	23.3139	23.0718	
	Normalized	100%	97.97%	98.99%
	Standard Deviation	1%	3%	0.8%

Neural Magic DeepSparse - C.D.Y.C - A.M.S	86.6567	86.9402	86.8832
(items/sec)			
Normalized	99.67%	100%	99.93%
Standard Deviation	0.2%	0.2%	0.1%
Neural Magic DeepSparse - C.D.Y.C - A.M.S	92.2142	91.9860	92.0462
(ms/batch)			
Normalized	99.75%	100%	99.93%
Standard Deviation	0.2%	0.2%	0.1%
Neural Magic DeepSparse - C.D.Y.C - S.S.S	75.2616	75.0401	75.2635
(items/sec)			
Normalized	100%	99.7%	100%
Standard Deviation	0%	0.3%	0.2%
Neural Magic DeepSparse - C.D.Y.C - S.S.S	13.2689	13.3089	13.2691
(ms/batch)			
Normalized	100%	99.7%	100%
Standard Deviation	0%	0.3%	0.2%
Neural Magic DeepSparse - C.C.R.5.I - A.M.S	219.3569	219.0088	218.6936
(items/sec)			
Normalized	100%	99.84%	99.7%
Standard Deviation	0.1%	0.4%	0.4%
Neural Magic DeepSparse - C.C.R.5.I - A.M.S	36.4390	36.4973	36.5392
(ms/batch)			
Normalized	100%	99.84%	99.73%
Standard Deviation	0.1%	0.4%	0.4%
Neural Magic DeepSparse - C.C.R.5.I - S.S.S	132.6485	134.1326	132.5077
(items/sec)			
Normalized	98.89%	100%	98.79%
Standard Deviation	2.2%	0.7%	2.8%
Neural Magic DeepSparse - C.C.R.5.I - S.S.S	7.5265	7.4408	7.5359
(ms/batch)			
Normalized	98.86%	100%	98.74%
Standard Deviation	2.2%	0.7%	2.8%
Neural Magic DeepSparse - N.T.C.D.m - A.M.S (items/sec)	108.5475	108.3377	108.7443
Normalized	99.82%	99.63%	100%
Standard Deviation	0.1%	0.8%	0.8%
Neural Magic DeepSparse - N.T.C.D.m - A.M.S (ms/batch)	73.6759	73.8216	73.5456
Normalized	99.82%	99.63%	100%
Standard Deviation	0.1%	0.8%	0.8%
Neural Magic DeepSparse - N.T.C.D.m - S.S.S	73.6039	72.0552	71.8852
(items/sec)			
Normalized	100%	97.9%	97.66%
Standard Deviation	1.5%	0.8%	1.2%
Neural Magic DeepSparse - N.T.C.D.m - S.S.S	13.5771	13.8679	13.9013
(ms/batch)			
Normalized	100%	97.9%	97.67%
Standard Deviation	1.5%	0.8%	1.2%
Neural Magic DeepSparse - N.T.C.B.b.u.S	55.5433	54.4332	54.2726
A.M.S (items/sec)			
Normalized	100%	98%	97.71%
Standard Deviation	0.4%	0.9%	0.5%

Neural Magic DeepSparse - N.T.C.B.b.u.S -	144.0062	146.9505	147.3804
A.M.S (ms/batch)			
Normalized	100%	98%	97.71%
Standard Deviation	0.4%	0.9%	0.5%
Neural Magic DeepSparse - N.T.C.B.b.u.S -	38.4438	37.7602	37.2115
S.S.S (items/sec)			
Normalized	100%	98.22%	96.79%
Standard Deviation	0.7%	1.9%	1.4%
Neural Magic DeepSparse - N.T.C.B.b.u.S -	26.0011	26.4774	26.8656
S.S.S (ms/batch)			
Normalized	100%	98.2%	96.78%
Standard Deviation	0.7%	1.9%	1.5%
Neural Magic DeepSparse - N.T.C.B.b.u.c -	10.5403	10.4339	10.3832
A.M.S (items/sec)			
Normalized	100%	98.99%	98.51%
Standard Deviation	0.9%	0.7%	0.6%
Neural Magic DeepSparse - N.T.C.B.b.u.c -	752.8319	760.8374	763.3064
A.M.S (ms/batch)			
Normalized	100%	98.95%	98.63%
Standard Deviation	0.5%	0.4%	0.6%
Neural Magic DeepSparse - N.T.C.B.b.u.c -	9.6153	9.6111	9.6532
S.S.S (items/sec)			
Normalized	99.61%	99.56%	100%
Standard Deviation	1%	0.5%	0.4%
Neural Magic DeepSparse - N.T.C.B.b.u.c -	103.9960	104.0376	103.5823
S.S.S (ms/batch)			
Normalized	99.6%	99.56%	100%
Standard Deviation	1%	0.5%	0.4%
Numenta Anomaly Benchmark - KNN CAD	185.330	182.657	180.519
(sec)			
Normalized	97.4%	98.83%	100%
Standard Deviation	0.8%	0.6%	0.4%
Numenta Anomaly Benchmark - Relative	15.803	15.813	15.525
Entropy (sec)			
Normalized	98.24%	98.18%	100%
Standard Deviation	2.9%	0.9%	2.2%
Numenta Anomaly Benchmark - Windowed	9.070	9.018	9.073
Gaussian (sec)			
Normalized	99.43%	100%	99.39%
Standard Deviation	0.7%	0.9%	0.7%
Numenta Anomaly Benchmark - Earthgecko	114.813	115.529	115.831
Skyline (sec)			
Normalized	100%	99.38%	99.12%
Standard Deviation	0.7%	0.5%	1%
Numenta Anomaly Benchmark - B.C (sec)	41.392	41.433	41.936
(sec)			
Normalized	100%	99.9%	98.7%
Standard Deviation	0.7%	0.9%	0.8%
Numenta Anomaly Benchmark - C.A.D.O	55.734	55.659	55.815
Normalized	99.87%	100%	99.72%
Standard Deviation	0.9%	0.8%	0.5%
oneDNN - IP Shapes 1D - f32 - CPU (ms)	2.29636	2.29385	2.29708
Normalized	99.89%	100%	99.86%
Standard Deviation	0.2%	0.1%	0.1%

oneDNN - IP Shapes 3D - f32 - CPU (ms)	3.10144	3.08561	3.09433
Normalized	99.49%	100%	99.72%
Standard Deviation	0.3%	0.7%	0.3%
oneDNN - IP Shapes 1D - u8s8f32 - CPU (ms)	0.496613	0.497248	0.496776
Normalized	100%	99.87%	99.97%
Standard Deviation	0.1%	0.1%	0.1%
oneDNN - IP Shapes 3D - u8s8f32 - CPU (ms)	1.25271	1.25174	1.24871
Normalized	99.68%	99.76%	100%
Standard Deviation	0.4%	0.3%	0.5%
oneDNN - C.B.S.A - f32 - CPU (ms)	4.29153	4.31178	4.28618
Normalized	99.88%	99.41%	100%
Standard Deviation	0.4%	0.5%	0.3%
oneDNN - D.B.s - f32 - CPU (ms)	4.70699	4.70834	4.98067
Normalized	100%	99.97%	94.51%
Standard Deviation	0.6%	0.5%	0.9%
oneDNN - D.B.s - f32 - CPU (ms)	3.30606	3.29633	3.31244
Normalized	99.71%	100%	99.51%
Standard Deviation	0.2%	0.2%	0.4%
oneDNN - C.B.S.A - u8s8f32 - CPU (ms)	4.15869	4.20343	4.18096
Normalized	100%	98.94%	99.47%
Standard Deviation	0.5%	0.4%	0.3%
oneDNN - D.B.s - u8s8f32 - CPU (ms)	0.540654	0.540452	0.541430
Normalized	99.96%	100%	99.82%
Standard Deviation	0.2%	0.1%	0.1%
oneDNN - D.B.s - u8s8f32 - CPU (ms)	0.851455	0.846543	0.831866
Normalized	97.7%	98.27%	100%
Standard Deviation	1.3%	2.1%	0.8%
oneDNN - R.N.N.T - f32 - CPU (ms)	1613	1611	1614
Normalized	99.88%	100%	99.82%
Standard Deviation	0.1%	0%	0%
oneDNN - R.N.N.I - f32 - CPU (ms)	909.632	912.066	909.147
Normalized	99.95%	99.68%	100%
Standard Deviation	0.4%	0.2%	0.3%
oneDNN - R.N.N.T - u8s8f32 - CPU (ms)	1622	1615	1619
Normalized	99.57%	100%	99.75%
Standard Deviation	0.2%	0.4%	0.2%
oneDNN - R.N.N.I - u8s8f32 - CPU (ms)	911.816	908.188	913.943
Normalized	99.6%	100%	99.37%
Standard Deviation	0.2%	0.1%	0.5%
oneDNN - M.M.B.S.T - f32 - CPU (ms)	0.956399	0.961682	0.963400
Normalized	100%	99.45%	99.27%
Standard Deviation	0.3%	0.7%	0.5%
oneDNN - M.M.B.S.T - u8s8f32 - CPU (ms)	0.313238	0.316005	0.313975
Normalized	100%	99.12%	99.77%
Standard Deviation	0.4%	1%	0%
OpenFOAM - d.S.M.S - Mesh Time (sec)	38.53511	38.235781	38.361993
Normalized	99.22%	100%	99.67%
OpenFOAM - d.S.M.S - Execution Time (sec)	188.28208	186.39843	186.93467
Normalized	99%	100%	99.71%
OpenFOAM - d.M.M.S - Mesh Time (sec)	241.48551	242.25487	242.92307
Normalized	100%	99.68%	99.41%
OpenFOAM - d.M.M.S - Execution Time (sec)	1599	1612	1607
Normalized	100%	99.2%	99.46%
OpenRadioss - Bumper Beam (sec)	152.41	151.82	153.23
Normalized	99.61%	100%	99.08%

Standard Deviation	0.2%	0.2%	0.2%
OpenRadioss - C.P.D.T (sec)	96.21	96.31	96.30
Normalized	100%	99.9%	99.91%
Standard Deviation	0.4%	0.2%	0.1%
OpenRadioss - B.S.o.W (sec)	256.43	256.19	255.89
Normalized	99.79%	99.88%	100%
Standard Deviation	0.3%	0.1%	0.1%
OpenRadioss - R.O.R.S.I (sec)	159.75	159.15	160.27
Normalized	99.62%	100%	99.3%
Standard Deviation	0.1%	0.2%	0.3%
OpenRadioss - I.a.F.S.I.D.C (sec)	443.72	445.17	446.66
Normalized	100%	99.67%	99.34%
Standard Deviation	0.2%	0.2%	0.2%
OpenVINO - F.D.F - CPU (FPS)	5.88	5.88	5.89
Normalized	99.83%	99.83%	100%
Standard Deviation	1%	0.9%	0.6%
OpenVINO - F.D.F - CPU (ms)	1357	1356	1357
Normalized	99.92%	100%	99.94%
Standard Deviation	1%	1%	0.7%
OpenVINO - P.D.F - CPU (FPS)	3.31	3.30	3.28
Normalized	100%	99.7%	99.09%
Standard Deviation	0.8%	0.8%	0.3%
OpenVINO - P.D.F - CPU (ms)	2400	2402	2415
Normalized	100%	99.93%	99.37%
Standard Deviation	0.5%	0.5%	0.3%
OpenVINO - P.D.F - CPU (FPS)	3.25	3.25	3.23
Normalized	100%	100%	99.38%
Standard Deviation	0.7%	0.5%	0.5%
OpenVINO - P.D.F - CPU (ms)	2436	2442	2451
Normalized	100%	99.78%	99.4%
Standard Deviation	0.5%	0.7%	0.4%
OpenVINO - V.D.F - CPU (FPS)	272.09	272.80	267.62
Normalized	99.74%	100%	98.1%
Standard Deviation	0.7%	0%	0.8%
OpenVINO - V.D.F - CPU (ms)	29.37	29.29	29.86
Normalized	99.73%	100%	98.09%
Standard Deviation	0.7%	0.1%	0.8%
OpenVINO - F.D.F.I - CPU (FPS)	19.11	19.15	19.17
Normalized	99.69%	99.9%	100%
Standard Deviation	0%	0.2%	0.2%
OpenVINO - F.D.F.I - CPU (ms)	417.71	416.95	416.16
Normalized	99.63%	99.81%	100%
Standard Deviation	0.1%	0.2%	0.2%
OpenVINO - V.D.F.I - CPU (FPS)	969.33	957.08	957.41
Normalized	100%	98.74%	98.77%
Standard Deviation	1%	0.3%	0.1%
OpenVINO - V.D.F.I - CPU (ms)	8.24	8.34	8.33
Normalized	100%	98.8%	98.92%
Standard Deviation	1%	0.3%	0.1%
OpenVINO - W.P.D.F - CPU (FPS)	625.50	623.36	620.61
Normalized	100%	99.66%	99.22%
Standard Deviation	0.2%	0.2%	0.4%
OpenVINO - W.P.D.F - CPU (ms)	25.53	25.62	25.73
Normalized	100%	99.65%	99.22%
Standard Deviation	0.2%	0.3%	0.4%

OpenVINO - M.T.E.T.D.F - CPU (FPS)	64.82	64.28	63.96
Normalized	100%	99.17%	98.67%
Standard Deviation	1.9%	0.7%	1.1%
OpenVINO - M.T.E.T.D.F - CPU (ms)	123.34	124.34	124.97
Normalized	100%	99.2%	98.7%
Standard Deviation	1.9%	0.6%	1.1%
OpenVINO - W.P.D.F.I - CPU (FPS)	1992	1994	1992
Normalized	99.91%	100%	99.93%
Standard Deviation	0.1%	0.1%	0.1%
OpenVINO - W.P.D.F.I - CPU (ms)	8.02	8.01	8.02
Normalized	99.88%	100%	99.88%
Standard Deviation	0.1%	0.1%	0.1%
OpenVINO - P.V.B.D.F - CPU (FPS)	485.36	485.19	491.24
Normalized	98.8%	98.77%	100%
Standard Deviation	3%	1.6%	2.9%
OpenVINO - P.V.B.D.F - CPU (ms)	16.47	16.46	16.27
Normalized	98.79%	98.85%	100%
Standard Deviation	3%	1.6%	3%
OpenVINO - A.G.R.R.0.F - CPU (FPS)	15260	15259	15144
Normalized	100%	99.99%	99.24%
Standard Deviation	1.3%	1.2%	1.1%
OpenVINO - A.G.R.R.0.F - CPU (ms)	1.04	1.03	1.04
Normalized	99.04%	100%	99.04%
Standard Deviation	1.5%	1.1%	1%
OpenVINO - A.G.R.R.0.F.I - CPU (FPS)	31168	31007	30632
Normalized	100%	99.49%	98.28%
Standard Deviation	0.5%	0.2%	0.1%
OpenVINO - A.G.R.R.0.F.I - CPU (ms)	0.50	0.5	0.51
Normalized	100%	100%	98.04%
Standard Deviation	1.1%	0%	0%
OSPRay Studio - 1 - 4K - 1 - Path Tracer (ms)	7055	7046	7048
Normalized	99.87%	100%	99.97%
Standard Deviation	0.3%	0%	
OSPRay Studio - 2 - 4K - 1 - Path Tracer (ms)	7242	7246	7245
Normalized	100%	99.94%	99.96%
Standard Deviation	0.1%	0.1%	0.1%
OSPRay Studio - 3 - 4K - 1 - Path Tracer (ms)	8633	8628	8633
Normalized	99.94%	100%	99.94%
Standard Deviation	0.1%	0%	0.2%
OSPRay Studio - 1 - 4K - 16 - Path Tracer	121467	121486	123000
Normalized	100%	99.98%	98.75%
Standard Deviation	0%	0.2%	2.8%
OSPRay Studio - 1 - 4K - 32 - Path Tracer	234216	234142	234371
Normalized	99.97%	100%	99.9%
Standard Deviation	0.2%	0%	0.2%
OSPRay Studio - 2 - 4K - 16 - Path Tracer	124428	124556	126341
Normalized	100%	99.9%	98.49%
Standard Deviation	0.1%	0.1%	2.6%
OSPRay Studio - 2 - 4K - 32 - Path Tracer	239935	240311	240430
Normalized	100%	99.84%	99.79%
Standard Deviation	0.1%	0%	0.1%
OSPRay Studio - 3 - 4K - 16 - Path Tracer	146583	146570	146692
Normalized	99.99%	100%	99.92%
Standard Deviation	0.1%	0.1%	0%
OSPRay Studio - 3 - 4K - 32 - Path Tracer	284699	284853	284235
	(ms)		

	Normalized	99.84%	99.78%	100%
	Standard Deviation	0.1%	0.1%	0.1%
OSPRay Studio - 1 - 1080p - 1 - Path Tracer	1778	1778	1779	
(ms)				
	Normalized	100%	100%	99.94%
	Standard Deviation	0.1%	0.1%	0.1%
OSPRay Studio - 2 - 1080p - 1 - Path Tracer	1826	1826	1824	
(ms)				
	Normalized	99.89%	99.89%	100%
	Standard Deviation	0.1%	0.1%	0.1%
OSPRay Studio - 3 - 1080p - 1 - Path Tracer	2178	2176	2173	
(ms)				
	Normalized	99.77%	99.86%	100%
	Standard Deviation	0.1%		0%
OSPRay Studio - 1 - 1080p - 16 - Path Tracer	28409	28417	28479	
(ms)				
	Normalized	100%	99.97%	99.75%
	Standard Deviation	0%	0.1%	0.1%
OSPRay Studio - 1 - 1080p - 32 - Path Tracer	65271	65242	65894	
(ms)				
	Normalized	99.96%	100%	99.01%
	Standard Deviation	0.1%	0.1%	1.4%
OSPRay Studio - 2 - 1080p - 16 - Path Tracer	29172	29206	29165	
(ms)				
	Normalized	99.98%	99.86%	100%
	Standard Deviation	0.2%	0%	
OSPRay Studio - 2 - 1080p - 32 - Path Tracer	66823	66817	67837	
(ms)				
	Normalized	99.99%	100%	98.5%
	Standard Deviation	0.1%	0.1%	3%
OSPRay Studio - 3 - 1080p - 16 - Path Tracer	34786	34801	34779	
(ms)				
	Normalized	99.98%	99.94%	100%
	Standard Deviation	0.1%	0%	0%
OSPRay Studio - 3 - 1080p - 32 - Path Tracer	78016	77997	79804	
(ms)				
	Normalized	99.98%	100%	97.74%
	Standard Deviation	0.2%	0.2%	3%
PostgreSQL - 100 - 100 - Read Only (TPS)	465422	515273	523788	
	Normalized	88.86%	98.37%	100%
	Standard Deviation	0.7%	0%	0.7%
PostgreSQL - 100 - 100 - Read Only - Average Latency (ms)	0.215	0.194	0.191	
	Normalized	88.84%	98.45%	100%
	Standard Deviation	0.8%	0%	0.9%
PostgreSQL - 100 - 250 - Read Only (TPS)	413949	475175	487468	
	Normalized	84.92%	97.48%	100%
	Standard Deviation	1.2%	0.1%	2%
PostgreSQL - 100 - 250 - Read Only - Average Latency (ms)	0.604	0.526	0.513	
	Normalized	84.93%	97.53%	100%
	Standard Deviation	1.2%	0.1%	1.9%
PostgreSQL - 100 - 500 - Read Only (TPS)	370238	426428	467167	
	Normalized	79.25%	91.28%	100%

	Standard Deviation	0.4%	0.3%	0.3%
PostgreSQL - 100 - 500 - Read Only -	1.350	1.173	1.070	
	Average Latency (ms)			
	Normalized	79.26%	91.22%	100%
	Standard Deviation	0.4%	0.3%	0.3%
PostgreSQL - 100 - 100 - Read Write (TPS)	53656	56230	54365	
	Normalized	95.42%	100%	96.68%
	Standard Deviation	0.5%	0.4%	0.3%
PostgreSQL - 100 - 100 - Read Write -	1.864	1.779	1.839	
	Average Latency (ms)			
	Normalized	95.44%	100%	96.74%
	Standard Deviation	0.5%	0.4%	0.3%
PostgreSQL - 100 - 250 - Read Write (TPS)	47676	45922	45223	
	Normalized	100%	96.32%	94.85%
	Standard Deviation	0.5%	0.1%	0.3%
PostgreSQL - 100 - 250 - Read Write -	5.244	5.444	5.528	
	Average Latency (ms)			
	Normalized	100%	96.33%	94.86%
	Standard Deviation	0.5%	0.1%	0.3%
PostgreSQL - 100 - 500 - Read Write (TPS)	38503	33824	36109	
	Normalized	100%	87.85%	93.78%
	Standard Deviation	0.3%	0.5%	0.4%
PostgreSQL - 100 - 500 - Read Write -	12.986	14.783	13.847	
	Average Latency (ms)			
	Normalized	100%	87.84%	93.78%
	Standard Deviation	0.3%	0.5%	0.4%
Primesieve - 1e12 (sec)	14.443	14.429	14.424	
	Normalized	99.87%	99.97%	100%
	Standard Deviation	0.1%	0.6%	0.3%
Primesieve - 1e13 (sec)	174.722	174.658	174.977	
	Normalized	99.96%	100%	99.82%
	Standard Deviation	0.4%	0.4%	0.5%
spaCy - en_core_web_lg (tokens/sec)	11314	11236	11231	
	Normalized	100%	99.31%	99.27%
	Standard Deviation	0.2%	0.2%	0.3%
spaCy - en_core_web_trf (tokens/sec)	2446	2416	2341	
	Normalized	100%	98.77%	95.71%
	Standard Deviation	0.7%	0.5%	0.6%
srsRAN - OFDM_Test (Samples / Second)	122000000	1226333333	1207333333	
	Normalized	99.48%	100%	98.45%
	Standard Deviation	0.4%	0.5%	0.6%
srsRAN - 4.P.1.P.M.6.Q (eNb Mb/s)	279.8	282.7	280.2	
	Normalized	98.97%	100%	99.12%
	Standard Deviation	0.1%	0.1%	0.2%
srsRAN - 4.P.1.P.M.6.Q (UE Mb/s)	117.3	118.3	117.1	
	Normalized	99.15%	100%	98.99%
	Standard Deviation	0.4%	0.1%	0%
srsRAN - 4.P.1.P.S.6.Q (eNb Mb/s)	279.8	282.0	280.3	
	Normalized	99.22%	100%	99.4%
	Standard Deviation	0.2%	0.1%	0.1%
srsRAN - 4.P.1.P.S.6.Q (UE Mb/s)	123.3	123.9	123.3	
	Normalized	99.52%	100%	99.52%
	Standard Deviation	0%	0.1%	0.2%
srsRAN - 4.P.1.P.M.2.Q (eNb Mb/s)	303.4	310.0	307.4	
	Normalized	97.87%	100%	99.16%

	Standard Deviation	1%	0.1%	0.2%
srsRAN - 4.P.1.P.M.2.Q (UE Mb/s)	126.9	128.0		127.2
Normalized	99.14%	100%	99.38%	
Standard Deviation	0.2%	0.2%	0.2%	
srsRAN - 4.P.1.P.S.2.Q (eNb Mb/s)	307.0	307.9	305.5	
Normalized	99.71%	100%	99.22%	
Standard Deviation	0.1%	0.1%	0.1%	
srsRAN - 4.P.1.P.S.2.Q (UE Mb/s)	131.0	131.6	130.3	
Normalized	99.54%	100%	99.01%	
Standard Deviation	0.1%	0.1%	0.2%	
srsRAN - 5.P.T.5.P.S.6.Q (eNb Mb/s)	98.6	98.6	98.3	
Normalized	100%	100%	99.7%	
Standard Deviation	0.6%	0.2%	0.3%	
srsRAN - 5.P.T.5.P.S.6.Q (UE Mb/s)	65.9	66.0	65.9	
Normalized	99.85%	100%	99.85%	
Standard Deviation	0.2%	0.4%	0.2%	
Stargate Digital Audio Workstation - 44100 -	3.909552	3.972591	3.817268	
512 (Render Ratio)				
Normalized	98.41%	100%	96.09%	
Standard Deviation	1.3%	0.8%	2.9%	
Stargate Digital Audio Workstation - 96000 -	2.537891	2.579045	2.497164	
512 (Render Ratio)				
Normalized	98.4%	100%	96.83%	
Standard Deviation	2.4%	0.9%	2.2%	
Stargate Digital Audio Workstation - 192000 -	1.536255	1.567049	1.520040	
512 (Render Ratio)				
Normalized	98.03%	100%	97%	
Standard Deviation	0.9%	1.9%	0.7%	
Stargate Digital Audio Workstation - 44100 -	4.385893	4.431098	4.311382	
1024 (Render Ratio)				
Normalized	98.98%	100%	97.3%	
Standard Deviation	0.1%	0.4%	1.9%	
Stargate Digital Audio Workstation - 480000 -	3.726933	3.790321	3.718812	
512 (Render Ratio)				
Normalized	98.33%	100%	98.11%	
Standard Deviation	0.9%	2.4%	2.1%	
Stargate Digital Audio Workstation - 96000 -	2.999611	3.063511		3.012585
1024 (Render Ratio)				
Normalized	97.91%	100%	98.34%	
Standard Deviation	1%	0.3%	1.2%	
Stargate Digital Audio Workstation - 192000 -	1.889268	1.989680		1.928814
1024 (Render Ratio)				
Normalized	94.95%	100%	96.94%	
Standard Deviation	1.5%	1%	1.2%	
Stargate Digital Audio Workstation - 480000 -	4.199568	4.270897		4.208880
1024 (Render Ratio)				
Normalized	98.33%	100%	98.55%	
Standard Deviation	1.2%	0.6%	0.7%	
Stress-NG - MMAP (Bogo Ops/s)	390.20	381.23	310.22	
Normalized	100%	97.7%	79.5%	
Standard Deviation	0.3%	0.3%	1.5%	
Stress-NG - NUMA (Bogo Ops/s)	358.05	335.58	256.61	
Normalized	100%	93.72%	71.67%	
Standard Deviation	1.4%	0.5%	1.2%	

Stress-NG - Futex (Bogo Ops/s)	1498829	2364279	2433807
Normalized	61.58%	97.14%	100%
Standard Deviation	8.7%	2.4%	0.7%
Stress-NG - MEMFD (Bogo Ops/s)	1009	879.67	667.82
Normalized	100%	87.22%	66.21%
Standard Deviation	0.2%	0.1%	0.1%
Stress-NG - Mutex (Bogo Ops/s)	8606775	9013626	7375258
Normalized	95.49%	100%	81.82%
Standard Deviation	0.2%	4.8%	0.6%
Stress-NG - Atomic (Bogo Ops/s)	223732	225144	225639
Normalized	99.15%	99.78%	100%
Standard Deviation	1.1%	1.2%	2.8%
Stress-NG - Crypto (Bogo Ops/s)	18743	18733	18728
Normalized	100%	99.95%	99.92%
Standard Deviation	0.4%	0.8%	0.6%
Stress-NG - Malloc (Bogo Ops/s)	22392194	20930091	15989080
Normalized	100%	93.47%	71.4%
Standard Deviation	0.7%	1.1%	1%
Stress-NG - Forking (Bogo Ops/s)	56720	60087	53633
Normalized	94.4%	100%	89.26%
Standard Deviation	0.5%	0.5%	1.2%
Stress-NG - IO_uring (Bogo Ops/s)	36489	32759	32919
Normalized	100%	89.78%	90.22%
Standard Deviation	1.9%	2.7%	1.3%
Stress-NG - SENDFILE (Bogo Ops/s)	241611	285767	284966
Normalized	84.55%	100%	99.72%
Standard Deviation	1.8%	1.3%	1.2%
Stress-NG - CPU Cache (Bogo Ops/s)	116.33	128.31	115.59
Normalized	90.66%	100%	90.09%
Standard Deviation	9.6%	16.4%	6.7%
Stress-NG - CPU Stress (Bogo Ops/s)	34274	34239	34059
Normalized	100%	99.9%	99.38%
Standard Deviation	2.7%	0%	0.1%
Stress-NG - Semaphores (Bogo Ops/s)	3214995	3314461	3315661
Normalized	96.96%	99.96%	100%
Standard Deviation	0%	0.1%	0.1%
Stress-NG - Matrix Math (Bogo Ops/s)	55915	55890	55875
Normalized	100%	99.96%	99.93%
Standard Deviation	1.5%	1.6%	2%
Stress-NG - Vector Math (Bogo Ops/s)	55352	55415	55344
Normalized	99.89%	100%	99.87%
Standard Deviation	1.1%	1%	1%
Stress-NG - x86_64 RdRand (Bogo Ops/s)	252391	252394	252372
Normalized	100%	100%	99.99%
Standard Deviation	0%	0%	0%
Stress-NG - Memory Copying (Bogo Ops/s)	4201	4129	4182
Normalized	100%	98.29%	99.54%
Standard Deviation	1.3%	1.8%	1.2%
Stress-NG - Socket Activity (Bogo Ops/s)	10161	17786	16991
Normalized	57.13%	100%	95.53%
Standard Deviation	11.5%	0.8%	1.1%
Stress-NG - Context Switching (Bogo Ops/s)	5500707	2284154	2054659
Normalized	100%	41.52%	37.35%
Standard Deviation	2.3%	0.5%	0.3%
Stress-NG - G.C.S.F (Bogo Ops/s)	911918	916397	916844

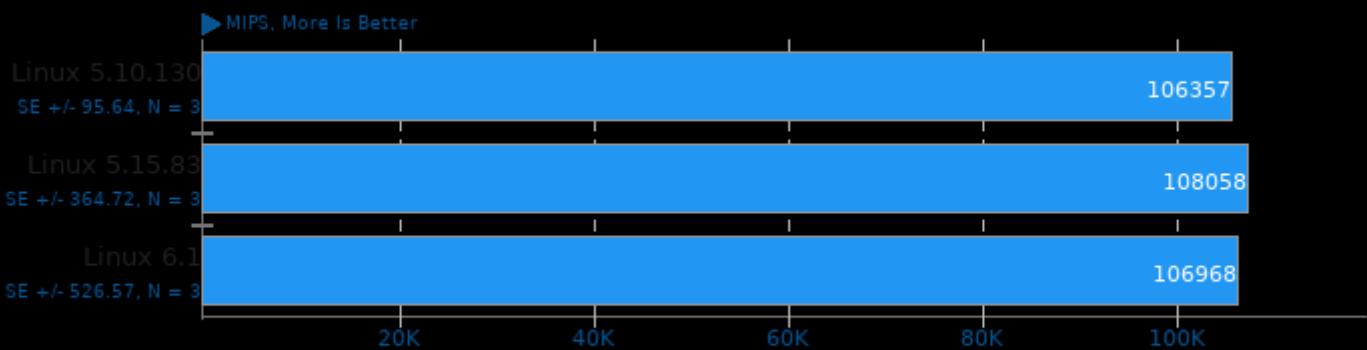
	Normalized	99.46%	99.95%	100%
	Standard Deviation	1.2%	0.7%	1.6%
Stress-NG - G.Q.D.S (Bogo Ops/s)	194.36	194.88	194.30	
	Normalized	99.73%	100%	99.7%
	Standard Deviation	1.4%	1%	1.1%
Stress-NG - S.V.M.P (Bogo Ops/s)	6490812	8257907	14896083	
	Normalized	43.57%	55.44%	100%
	Standard Deviation	0.6%	0.1%	0.3%
SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)	2.475	2.483	2.460	
	Normalized	99.68%	100%	99.07%
	Standard Deviation	0.2%	0.4%	0.3%
SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	34.519	34.818	34.723	
	Normalized	99.14%	100%	99.73%
	Standard Deviation	0.3%	0.8%	1%
SVT-AV1 - Preset 12 - Bosphorus 4K (FPS)	126.497	127.534	126.763	
	Normalized	99.19%	100%	99.4%
	Standard Deviation	0.6%	0.8%	0.4%
SVT-AV1 - Preset 13 - Bosphorus 4K (FPS)	120.794	122.978	121.596	
	Normalized	98.22%	100%	98.88%
	Standard Deviation	1%	0.4%	0.9%
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	7.046	6.985	7.024	
	Normalized	100%	99.13%	99.69%
	Standard Deviation	1.4%	0.4%	1.1%
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	95.493	95.043	95.151	
	Normalized	100%	99.53%	99.64%
	Standard Deviation	0.7%	0.6%	0.8%
SVT-AV1 - Preset 12 - Bosphorus 1080p	415.136	418.022	409.127	
	Normalized	99.31%	100%	97.87%
	Standard Deviation	0.4%	0.4%	1.1%
SVT-AV1 - Preset 13 - Bosphorus 1080p	423.649	425.263	419.750	
	Normalized	99.62%	100%	98.7%
	Standard Deviation	0.3%	0.5%	0.7%
TensorFlow - CPU - 16 - AlexNet	166.55	166.90	166.31	
	Normalized	99.79%	100%	99.65%
	Standard Deviation	0.5%	0.1%	0.2%
TensorFlow - CPU - 32 - AlexNet	211.25	211.47	211.06	
	Normalized	99.9%	100%	99.81%
	Standard Deviation	0.4%	0.1%	0.2%
TensorFlow - CPU - 64 - AlexNet	243.30	242.73	242.34	
	Normalized	100%	99.77%	99.61%
	Standard Deviation	0%	0.3%	0.2%
TensorFlow - CPU - 256 - AlexNet	278.63	279.05	279.22	
	Normalized	99.79%	99.94%	100%
	Standard Deviation	0.3%	0.4%	0.2%
TensorFlow - CPU - 16 - GoogLeNet (images/sec)	114.41	115.15	116.16	
	Normalized	98.49%	99.13%	100%
	Standard Deviation	0.2%	0.2%	0.2%
TensorFlow - CPU - 16 - ResNet-50 (images/sec)	37.68	38.09	38.01	
	Normalized	98.92%	100%	99.79%
	Standard Deviation	0.2%	0.3%	0.1%

TensorFlow - CPU - 32 - GoogLeNet (images/sec)	121.72	122.18	123.19
Normalized	98.81%	99.18%	100%
Standard Deviation	0.2%	0.2%	0.2%
TensorFlow - CPU - 32 - ResNet-50 (images/sec)	40.23	40.41	40.32
Normalized	99.55%	100%	99.78%
Standard Deviation	0.1%	0.2%	0.1%
TensorFlow - CPU - 64 - GoogLeNet (images/sec)	125.79	126.29	126.49
Normalized	99.45%	99.84%	100%
Standard Deviation	0.1%	0.2%	0.2%
TensorFlow - CPU - 64 - ResNet-50 (images/sec)	41.90	42.05	42.06
Normalized	99.62%	99.98%	100%
Standard Deviation	0.1%	0.1%	0.2%
TensorFlow - CPU - 256 - GoogLeNet (images/sec)	130.21	130.40	130.47
Normalized	99.8%	99.95%	100%
Standard Deviation	0%	0.1%	0%
TensorFlow - CPU - 256 - ResNet-50 (images/sec)	43.50	43.41	43.37
Normalized	100%	99.79%	99.7%
Standard Deviation	0.1%	0.1%	0.1%
Timed CPython Compilation - Default (sec)	19.449	19.493	19.777
Normalized	100%	99.77%	98.34%
Timed CPython Compilation - R.B.P.L.O	383.514	383.962	385.5
Normalized	100%	99.88%	99.48%
Timed Erlang/OTP Compilation - Time To Compile (sec)	91.560	91.754	93.739
Normalized	100%	99.79%	97.68%
Standard Deviation	0.1%	0.3%	0.1%
Timed Godot Game Engine Compilation - Time To Compile (sec)	97.246	97.568	99.420
Normalized	100%	99.67%	97.81%
Standard Deviation	0.4%	0.6%	0.3%
Timed Linux Kernel Compilation - defconfig (sec)	70.169	70.488	72.558
Normalized	100%	99.55%	96.71%
Standard Deviation	0.6%	0.6%	0.7%
Timed Linux Kernel Compilation - allmodconfig (sec)	907.748	911.083	934.265
Normalized	100%	99.63%	97.16%
Standard Deviation	0%	0.2%	0.1%
Timed Node.js Compilation - Time To Compile (sec)	453.613	453.307	459.753
Normalized	99.93%	100%	98.6%
Standard Deviation	0.1%	0.1%	0.1%
Timed PHP Compilation - Time To Compile (sec)	65.325	65.143	65.964
Normalized	99.72%	100%	98.76%
Standard Deviation	0.9%	0.6%	1%
WebP Image Encode - Default (MP/s)	14.37	14.40	14.38

	Normalized	99.79%	100%	99.86%
	Standard Deviation	0.1%	0%	0.1%
WebP Image Encode - Quality 100 (MP/s)		9.00	9.02	8.95
	Normalized	99.78%	100%	99.22%
	Standard Deviation	0.1%	0%	0.2%
WebP Image Encode - Q.1.L (MP/s)	1.27	1.28	1.27	
	Normalized	99.22%	100%	99.22%
	Standard Deviation	0.1%	0.1%	0.1%
WebP Image Encode - Q.1.H.C (MP/s)	3.07	3.09	3.08	
	Normalized	99.35%	100%	99.68%
	Standard Deviation	1.1%	0.1%	0.1%
WebP Image Encode - Q.1.L.H.C (MP/s)	0.48	0.48	0.48	
	Standard Deviation	0.1%	0.1%	0.3%
Xmrig - Monero - 1M (H/s)	6795	6830	6767	
	Normalized	99.48%	100%	99.08%
	Standard Deviation	0.1%	0.6%	1.4%
Xmrig - Wownero - 1M (H/s)	9492	9531	9528	
	Normalized	99.59%	100%	99.96%
	Standard Deviation	1.2%	0.6%	0.9%
Y-Cruncher - 1B (sec)	24.449	24.562	24.455	
	Normalized	100%	99.54%	99.98%
	Standard Deviation	0.1%	0.2%	0.2%
Y-Cruncher - 500M (sec)	11.345	11.366	11.294	
	Normalized	99.55%	99.37%	100%
	Standard Deviation	0.2%	0.1%	0.1%

7-Zip Compression 22.01

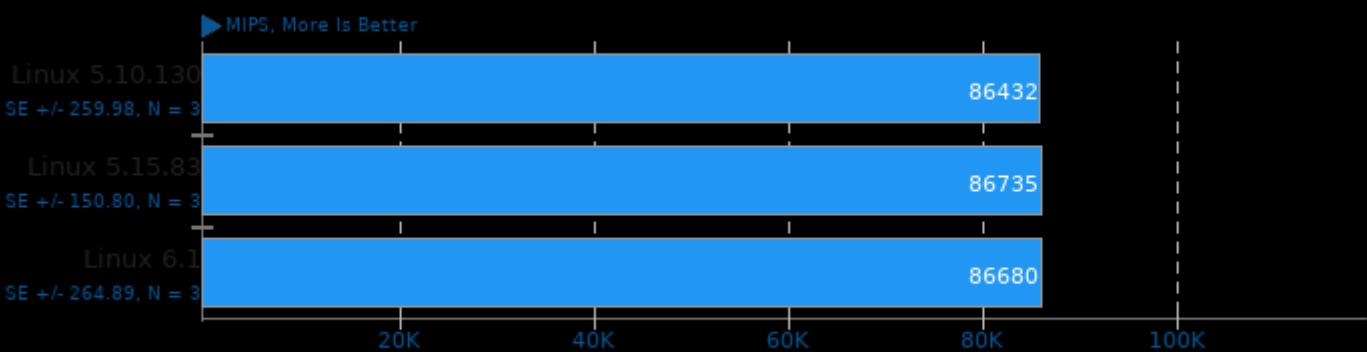
Test: Compression Rating



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

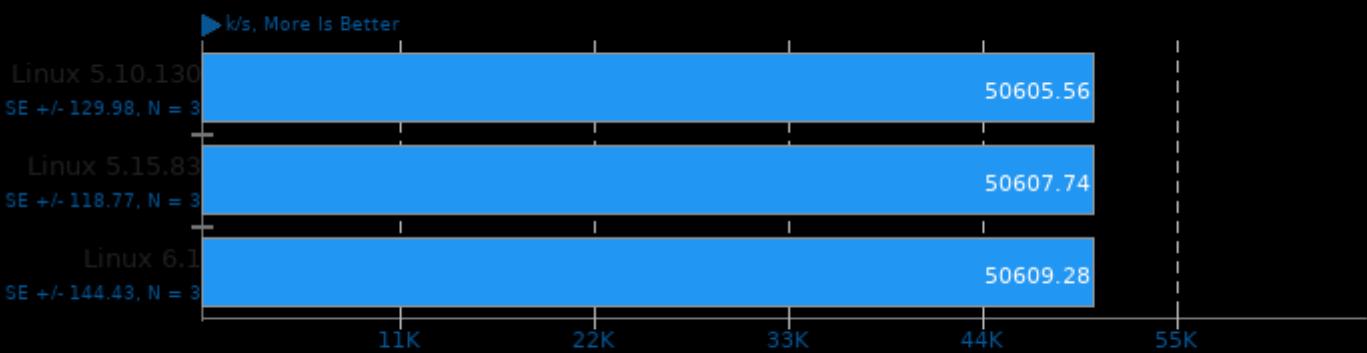
7-Zip Compression 22.01

Test: Decompression Rating



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

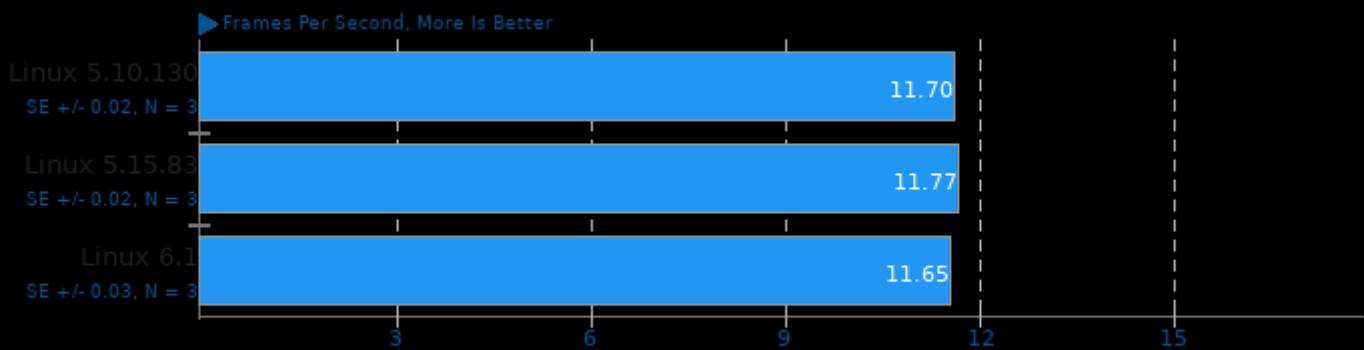
Aircrack-ng 1.7



1. (CXX) g++ options: -std=gnu++17 -O3 -fvisibility=hidden -fcommon -rdynamic -lncurses -lssl -lcrypto -lhwloc -ldl -lm -lbsd -

AOM AV1 3.5

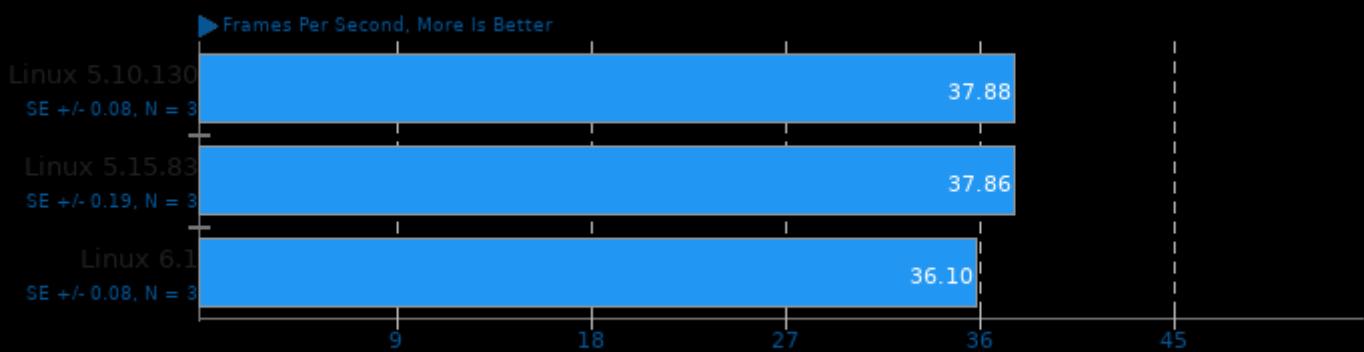
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread

AOM AV1 3.5

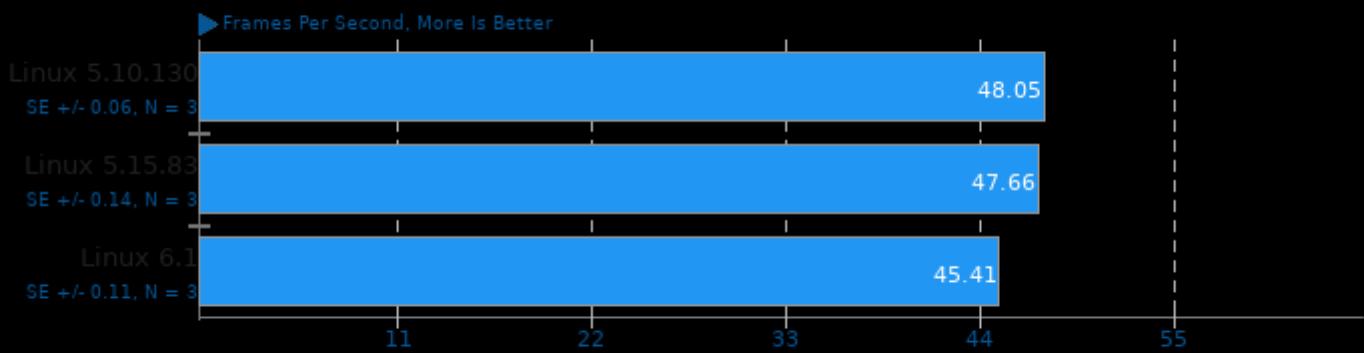
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread

AOM AV1 3.5

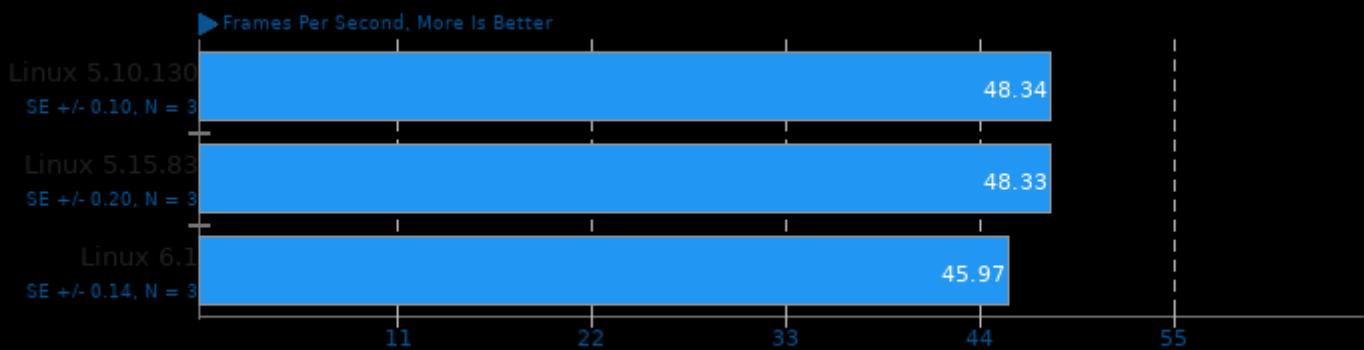
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread

AOM AV1 3.5

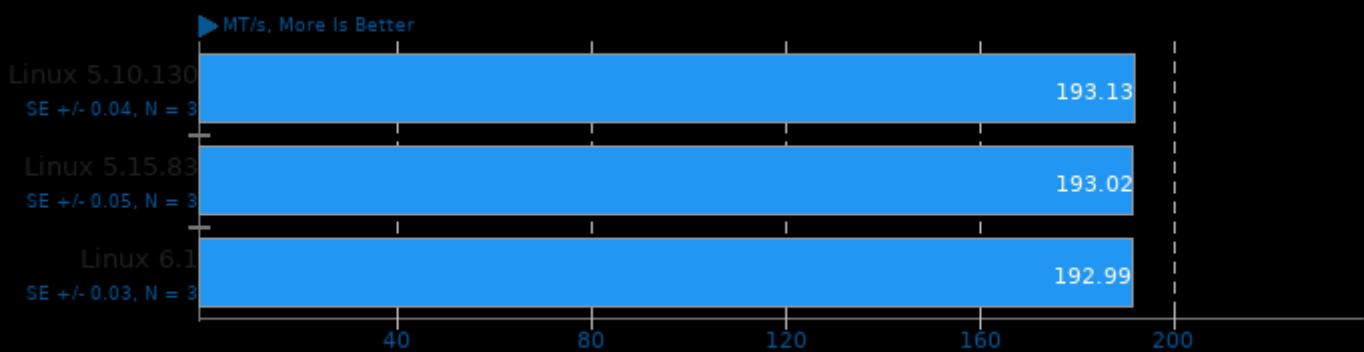
Encoder Mode: Speed 10 Realtime - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread

ASTC Encoder 4.0

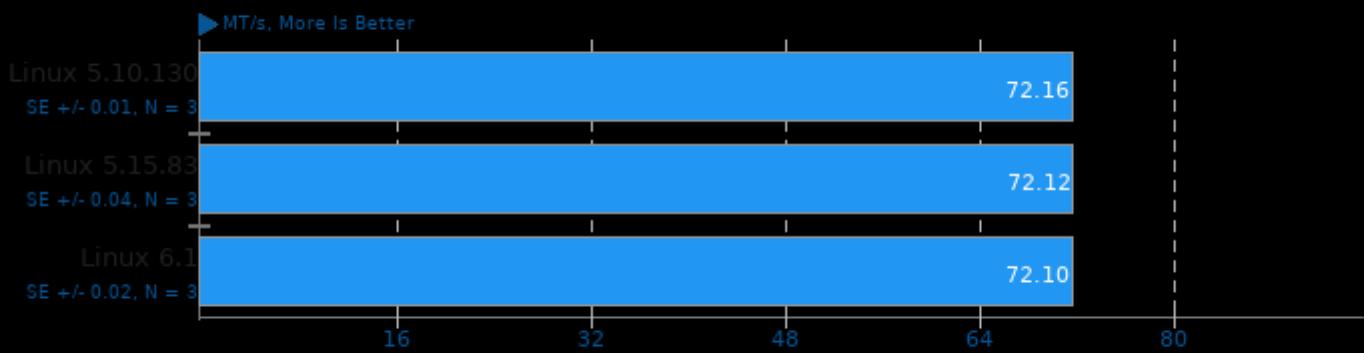
Preset: Fast



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

ASTC Encoder 4.0

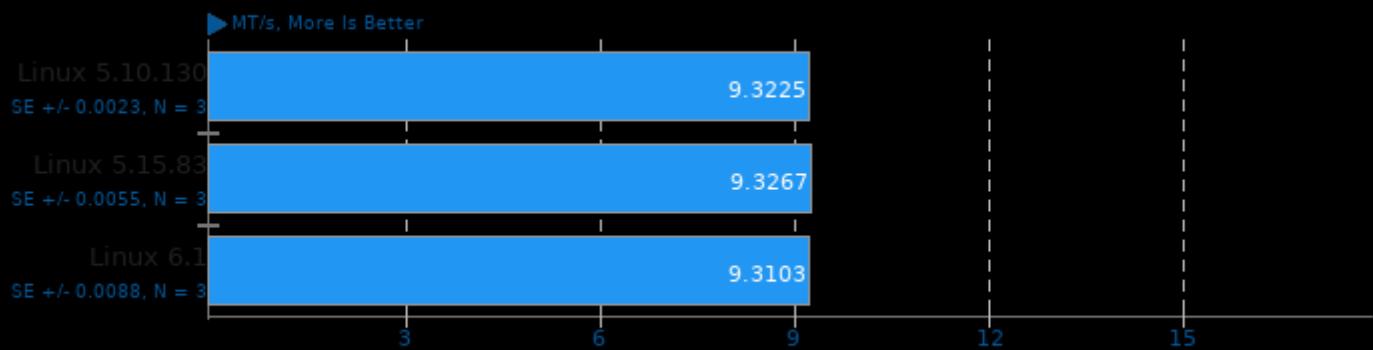
Preset: Medium



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

ASTC Encoder 4.0

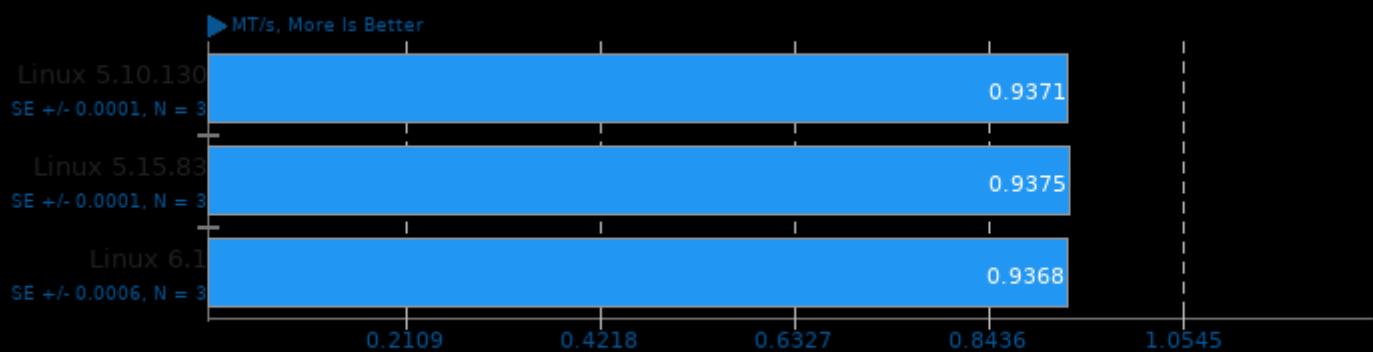
Preset: Thorough



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

ASTC Encoder 4.0

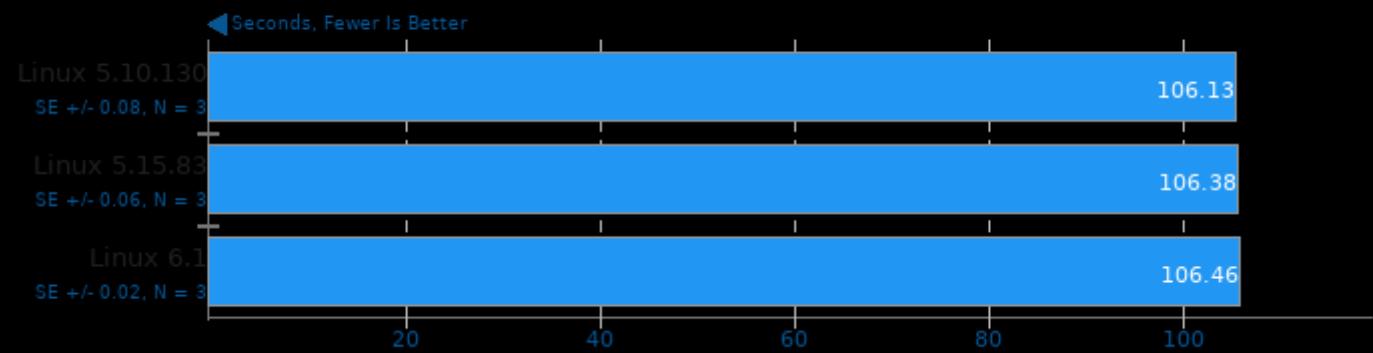
Preset: Exhaustive



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

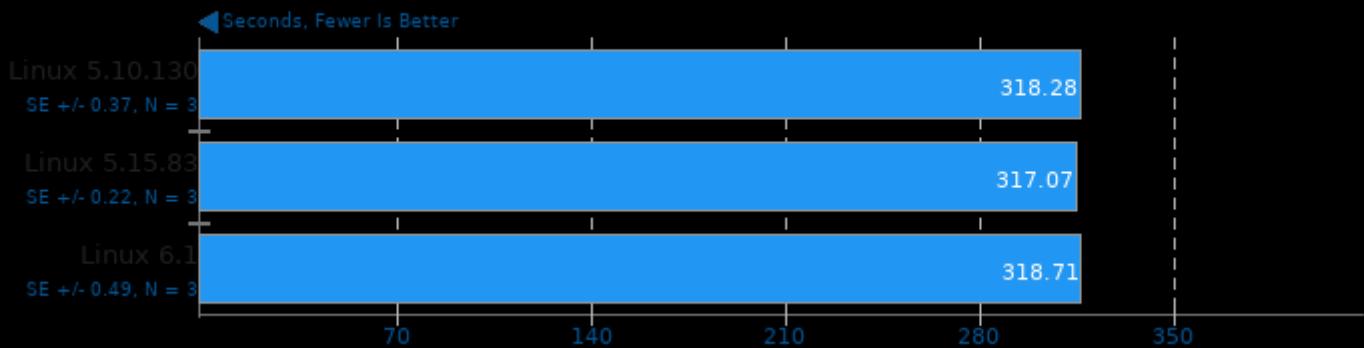
Blender 3.4

Blend File: BMW27 - Compute: CPU-Only



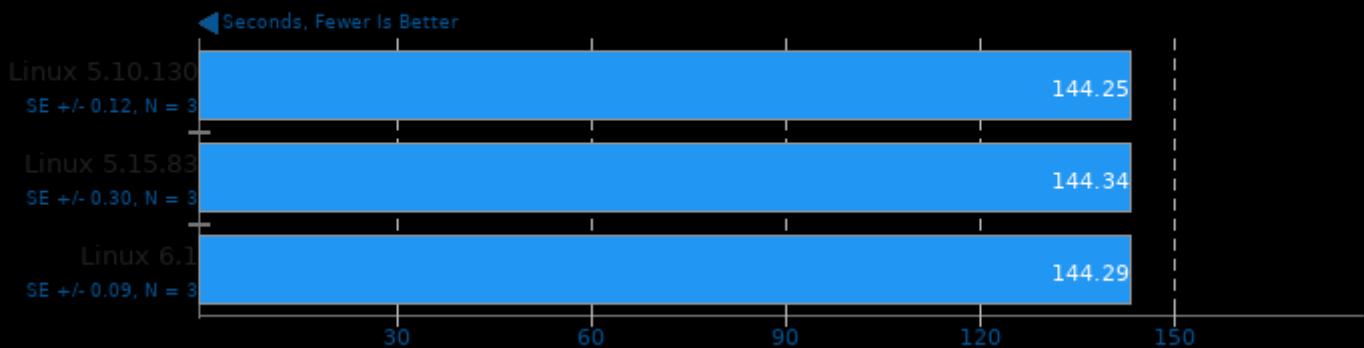
Blender 3.4

Blend File: Classroom - Compute: CPU-Only



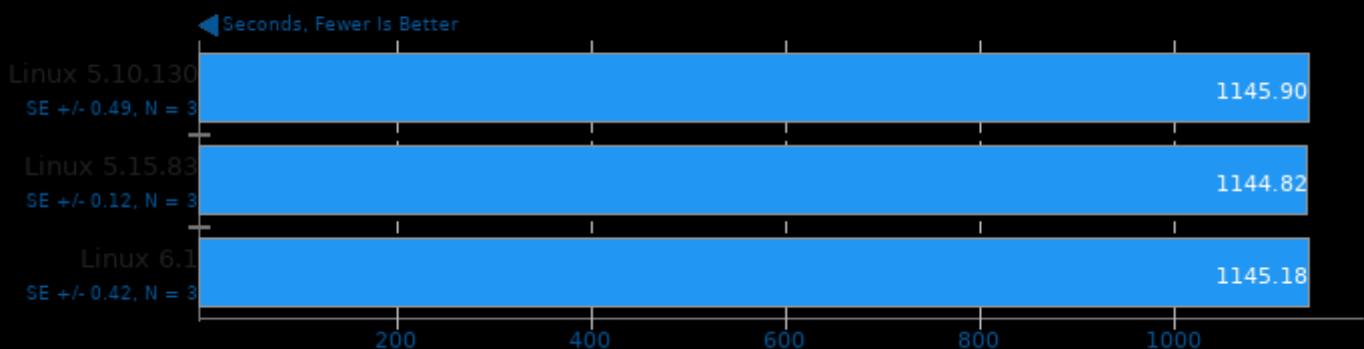
Blender 3.4

Blend File: Fishy Cat - Compute: CPU-Only



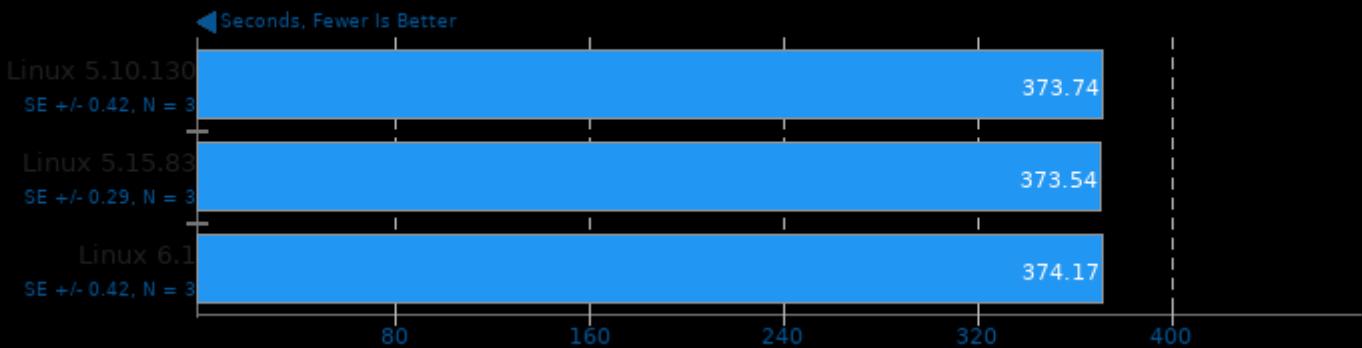
Blender 3.4

Blend File: Barbershop - Compute: CPU-Only



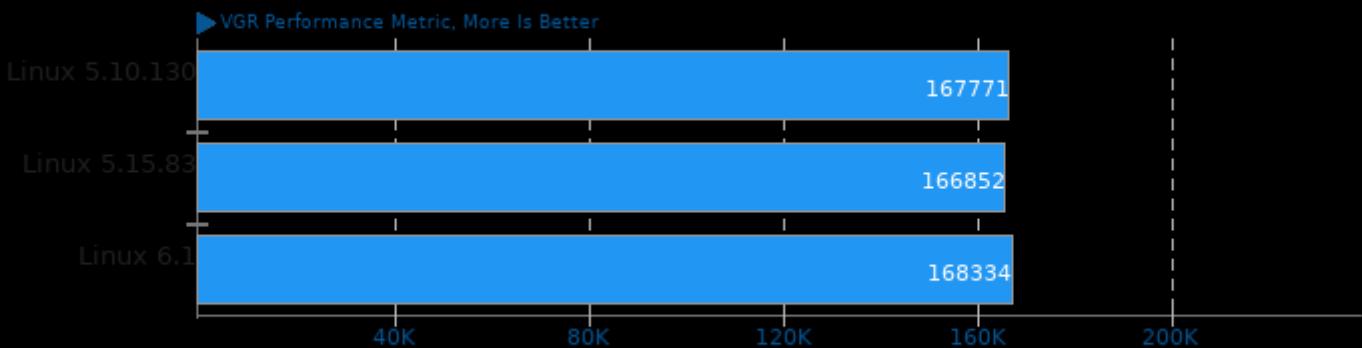
Blender 3.4

Blend File: Pabellon Barcelona - Compute: CPU-Only



BRL-CAD 7.32.6

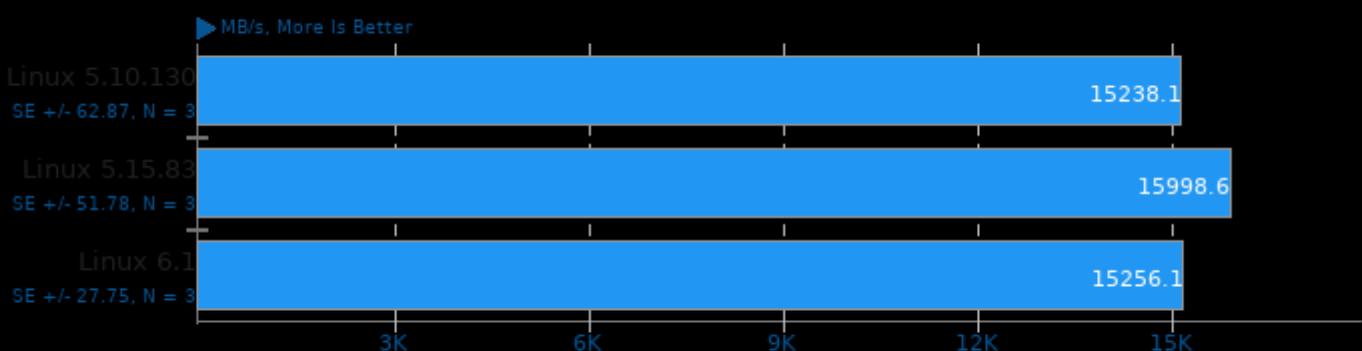
VGR Performance Metric



1. (CXX) g++ options: -std=c++11 -pipe -fvisibility=hidden -fno-strict-aliasing -fno-common -fexceptions -ftemplate-depth=128 -m64 -ggdb3 -O3 -fipa-pt

C-Blosc 2.3

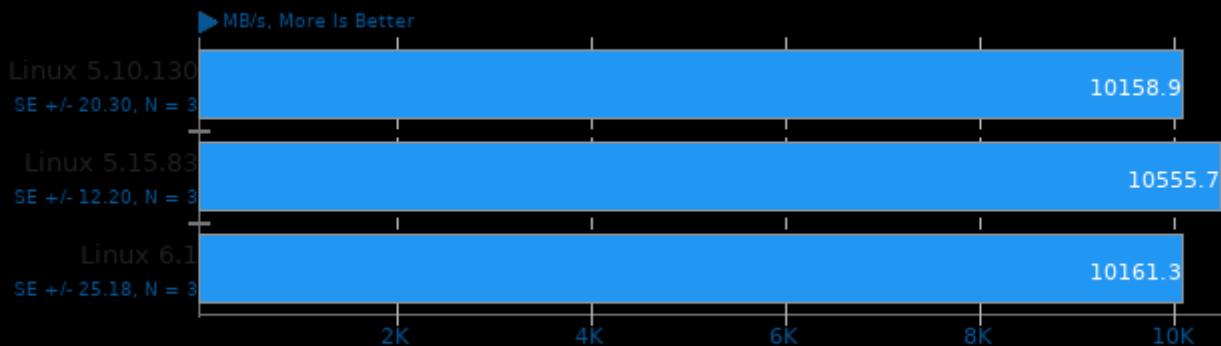
Test: blosclz shuffle



1. (CC) gcc options: -std=gnu99 -O3 -fipa -fthread -lm

C-Blosc 2.3

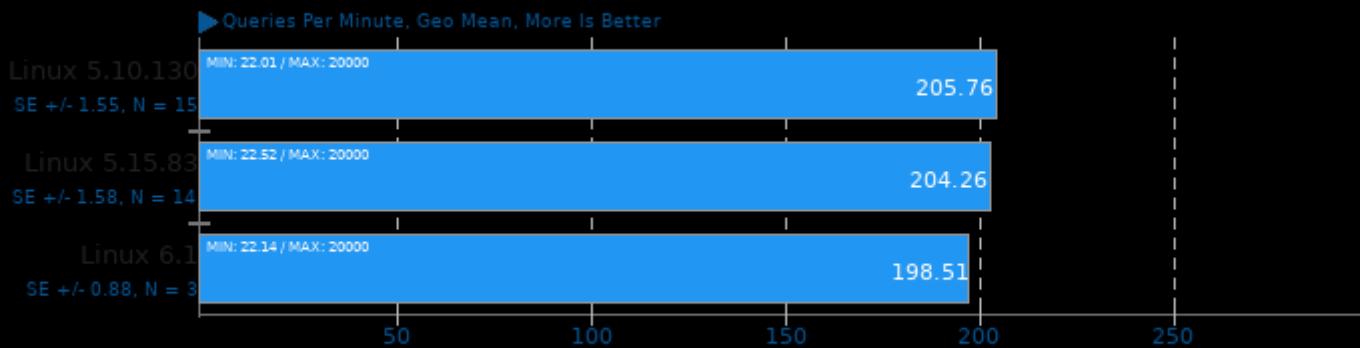
Test: blosclz bitshuffle



1. (CC) gcc options: -std=gnu99 -O3 -lrt -pthread -lm

ClickHouse 22.5.4.19

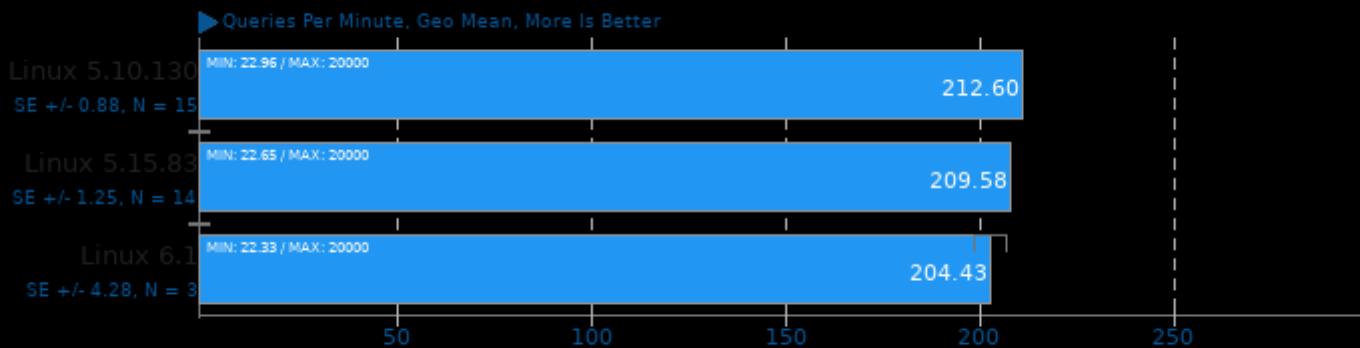
100M Rows Web Analytics Dataset, First Run / Cold Cache



1. ClickHouse server version 22.5.4.19 (official build).

ClickHouse 22.5.4.19

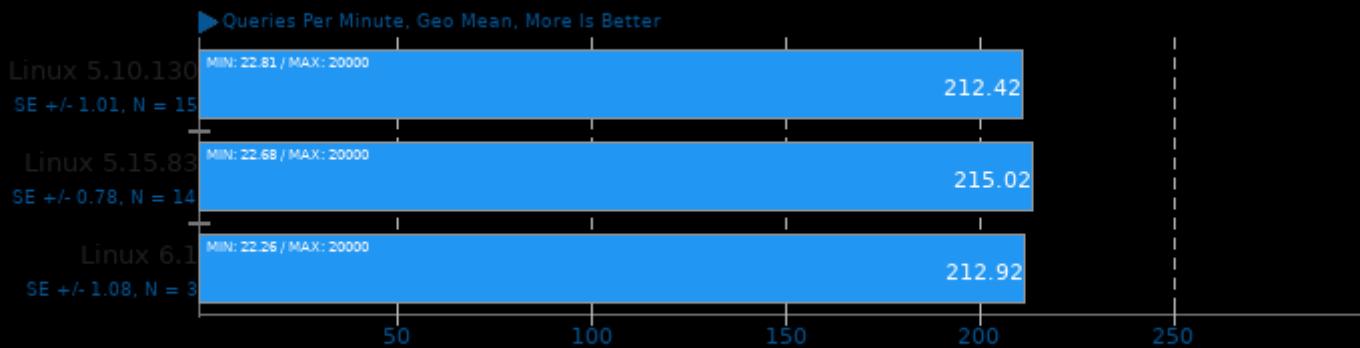
100M Rows Web Analytics Dataset, Second Run



1. ClickHouse server version 22.5.4.19 (official build).

ClickHouse 22.5.4.19

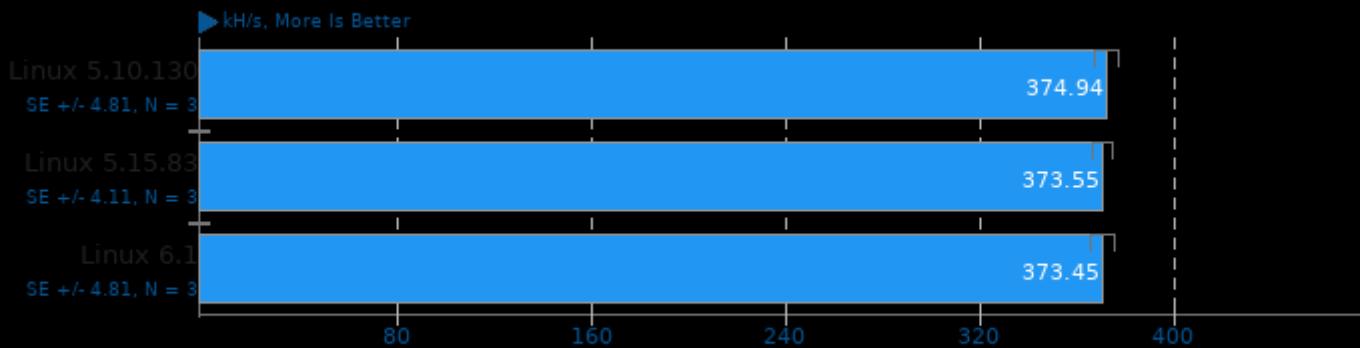
100M Rows Web Analytics Dataset, Third Run



1. ClickHouse server version 22.5.4.19 (official build).

Cpuminer-Opt 3.20.3

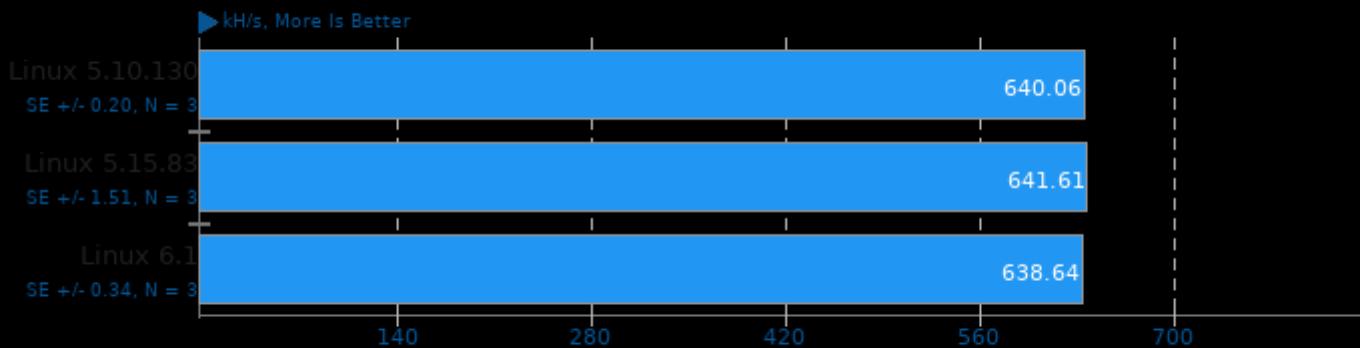
Algorithm: Magi



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

Cpuminer-Opt 3.20.3

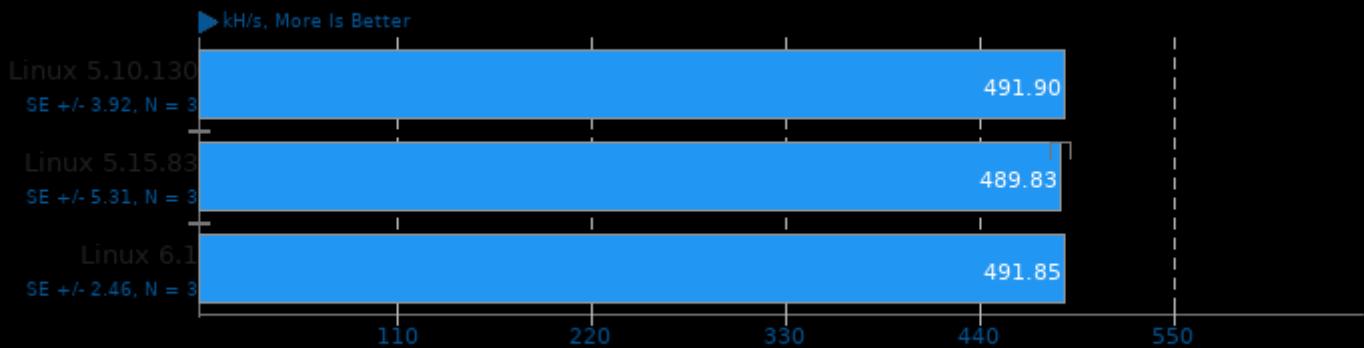
Algorithm: x25x



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

Cpuminer-Opt 3.20.3

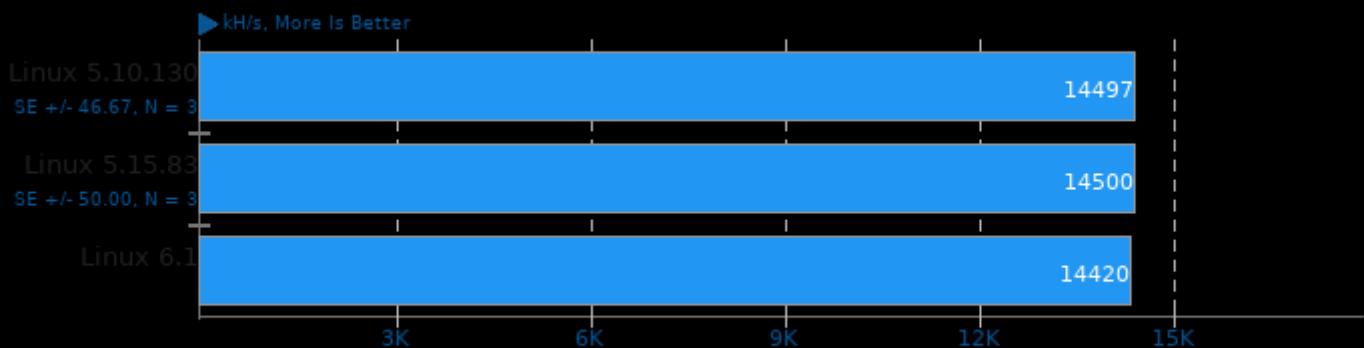
Algorithm: scrypt



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

Cpuminer-Opt 3.20.3

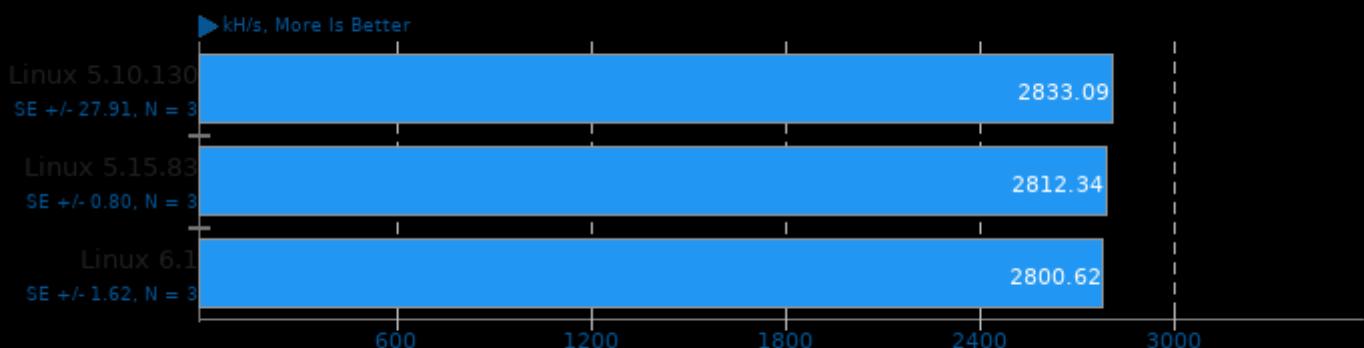
Algorithm: Deepcoin



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

Cpuminer-Opt 3.20.3

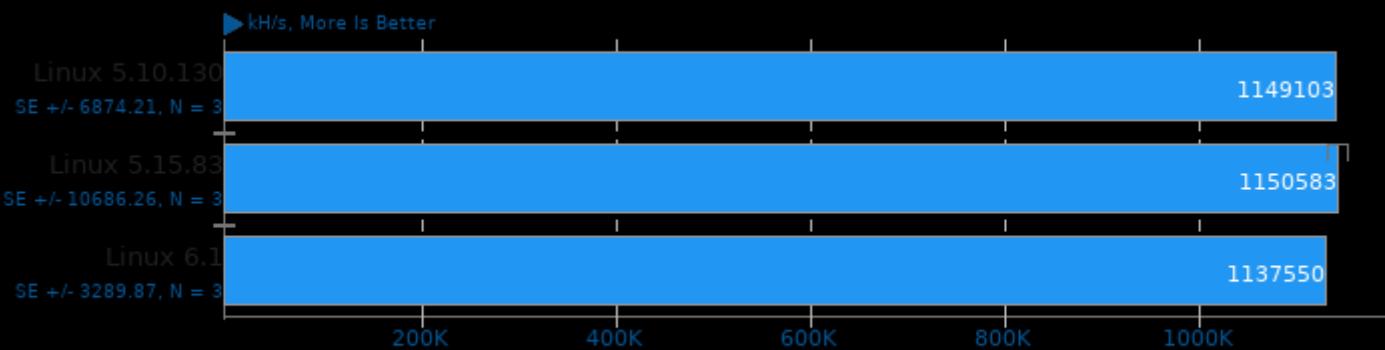
Algorithm: Ringcoin



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

Cpuminer-Opt 3.20.3

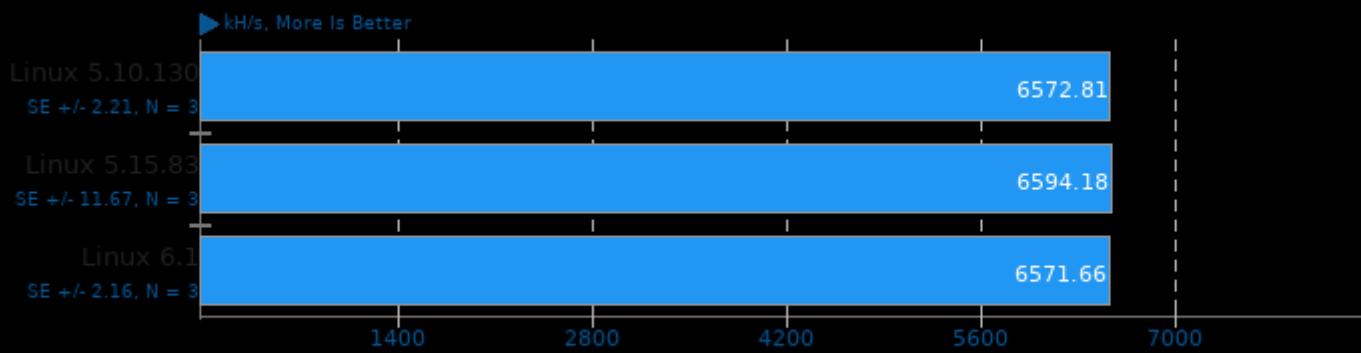
Algorithm: Blake-2 S



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

Cpuminer-Opt 3.20.3

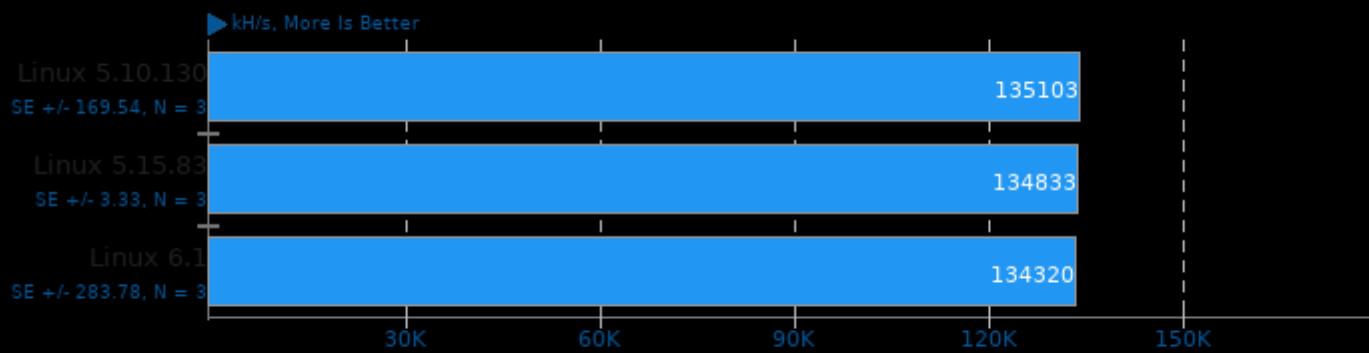
Algorithm: Garlicoin



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

Cpuminer-Opt 3.20.3

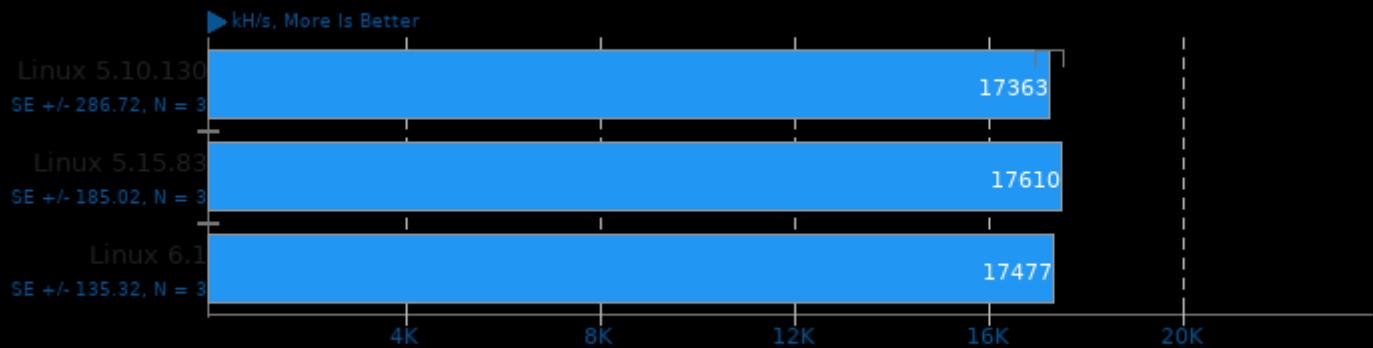
Algorithm: Skeincoin



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

Cpuminer-Opt 3.20.3

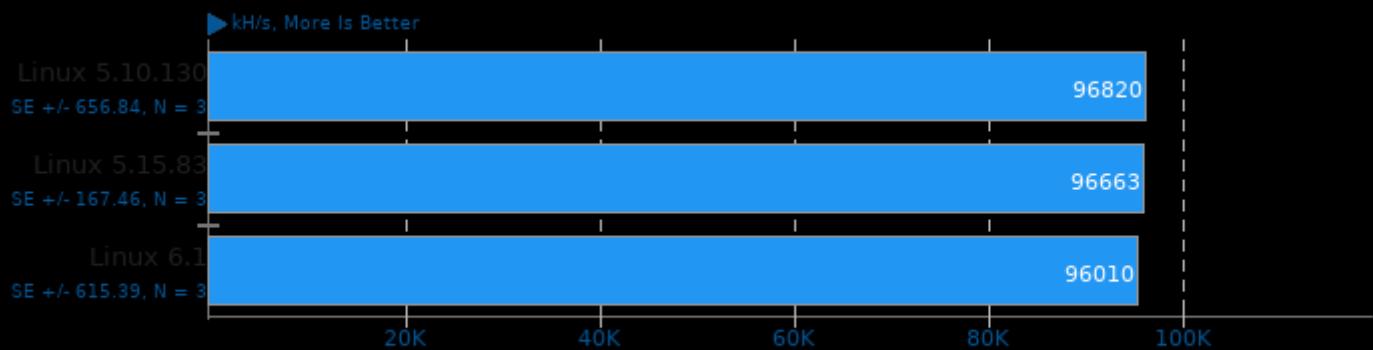
Algorithm: Myriad-Groestl



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

Cpuminer-Opt 3.20.3

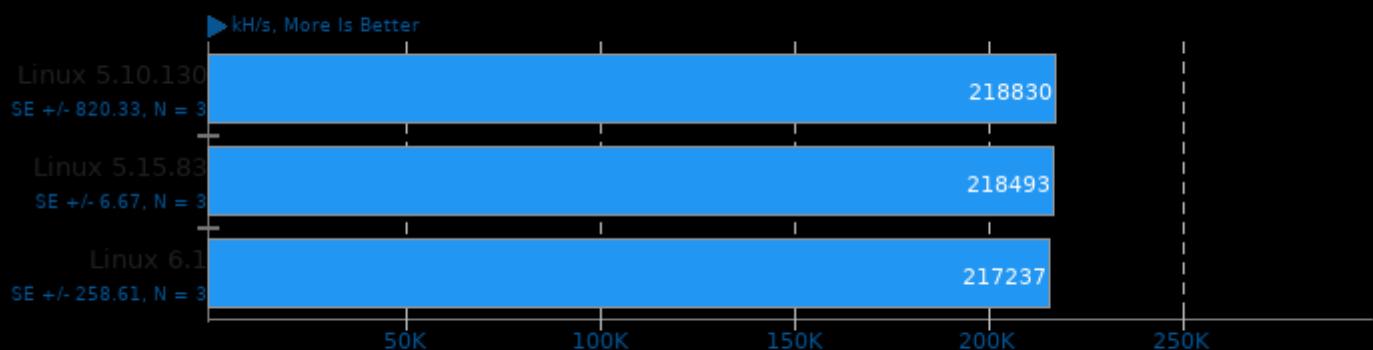
Algorithm: LBC, LBRY Credits



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

Cpuminer-Opt 3.20.3

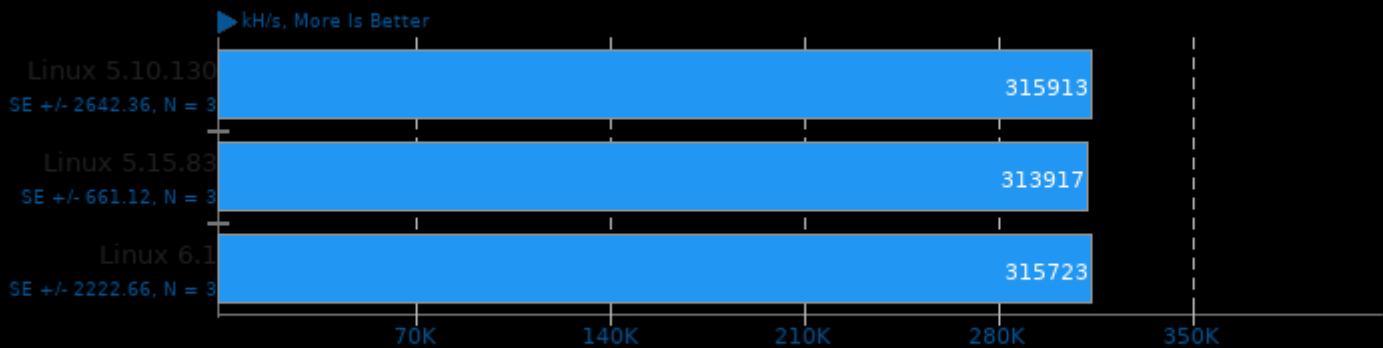
Algorithm: Quad SHA-256, Pyrite



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

Cpuminer-Opt 3.20.3

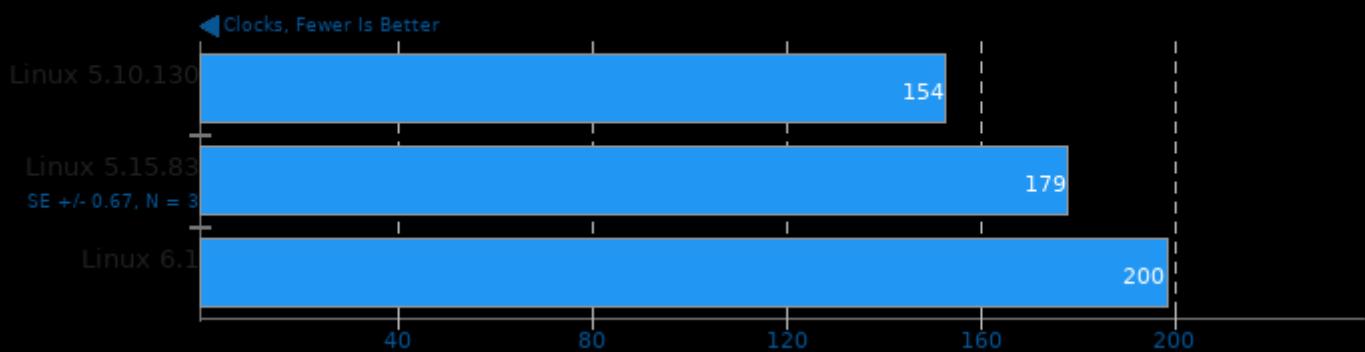
Algorithm: Triple SHA-256, Onecoin



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

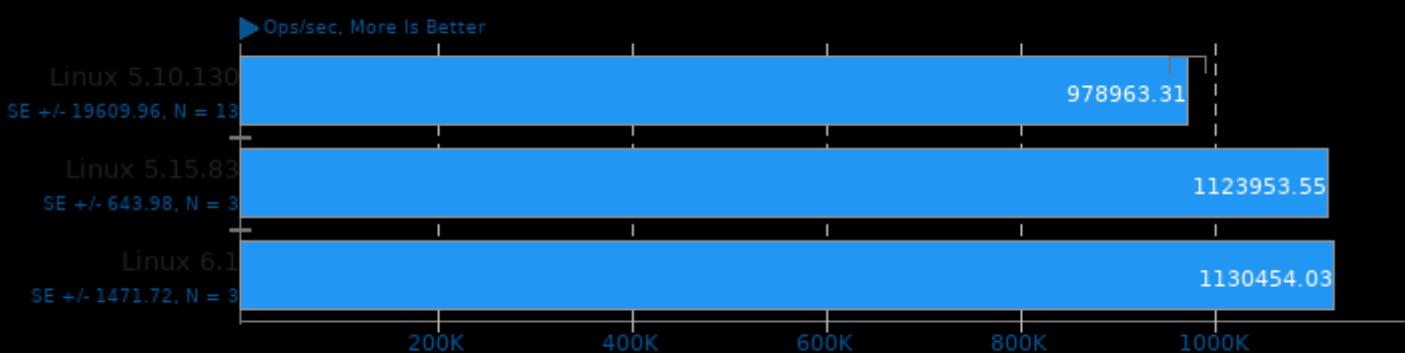
ctx_clock

Context Switch Time



Dragonflydb 0.6

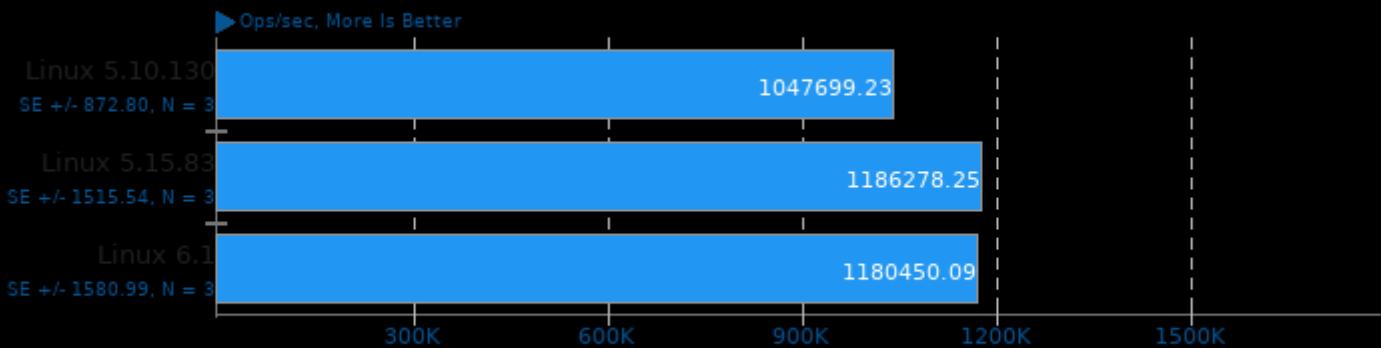
Clients: 50 - Set To Get Ratio: 1:1



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

Dragonflydb 0.6

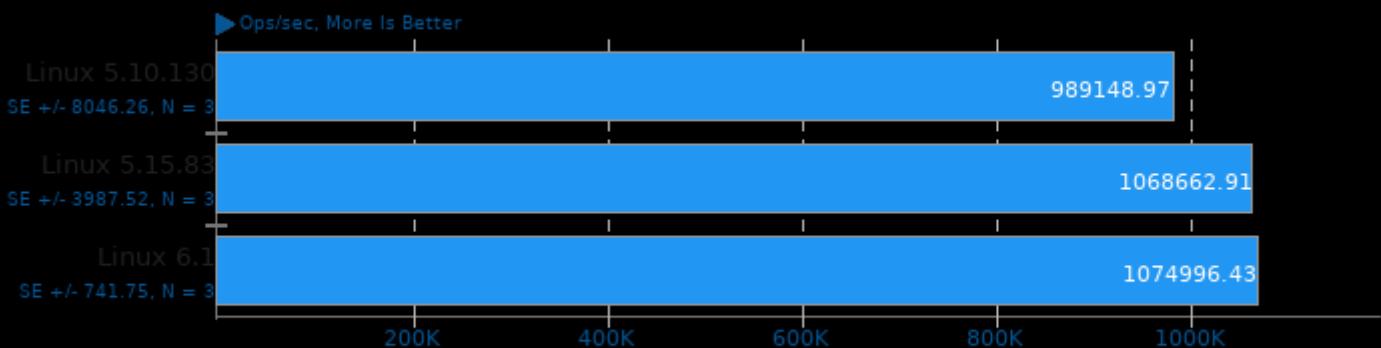
Clients: 50 - Set To Get Ratio: 1:5



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

Dragonflydb 0.6

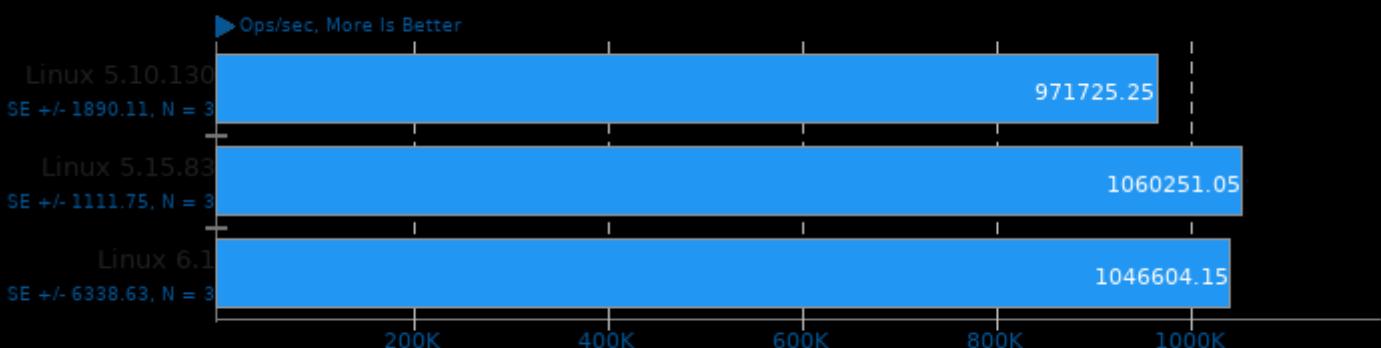
Clients: 50 - Set To Get Ratio: 5:1



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

Dragonflydb 0.6

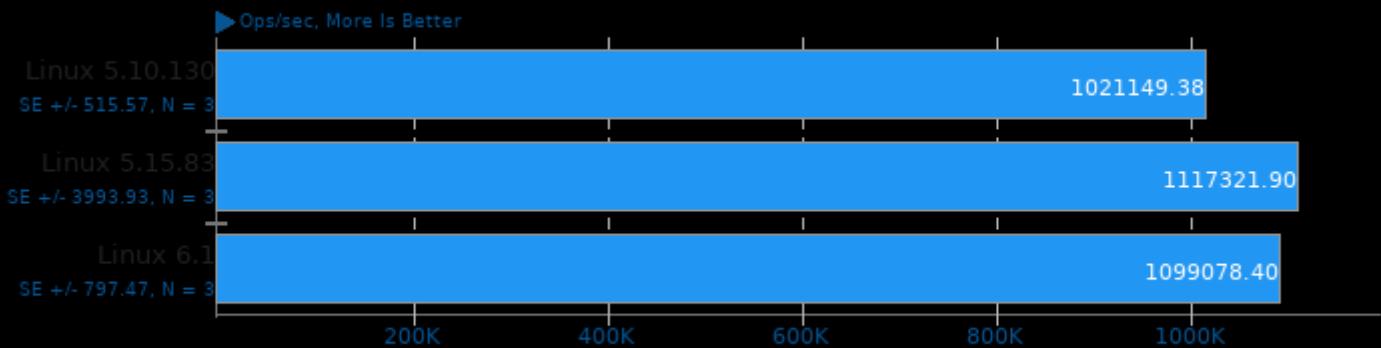
Clients: 200 - Set To Get Ratio: 1:1



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

Dragonflydb 0.6

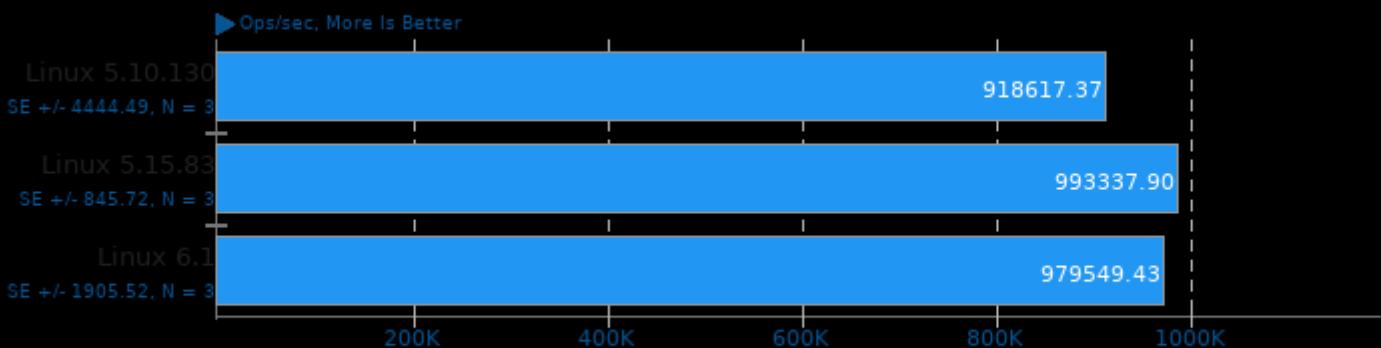
Clients: 200 - Set To Get Ratio: 1:5



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

Dragonflydb 0.6

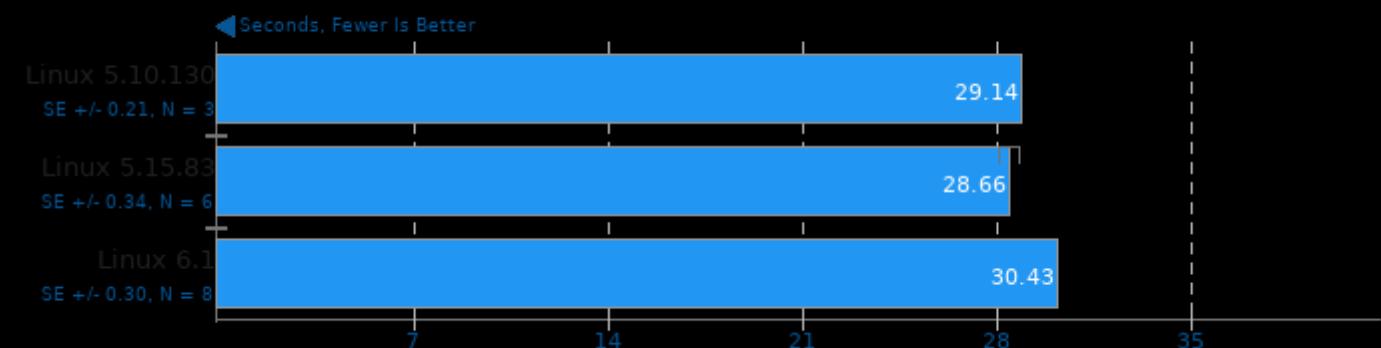
Clients: 200 - Set To Get Ratio: 5:1



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

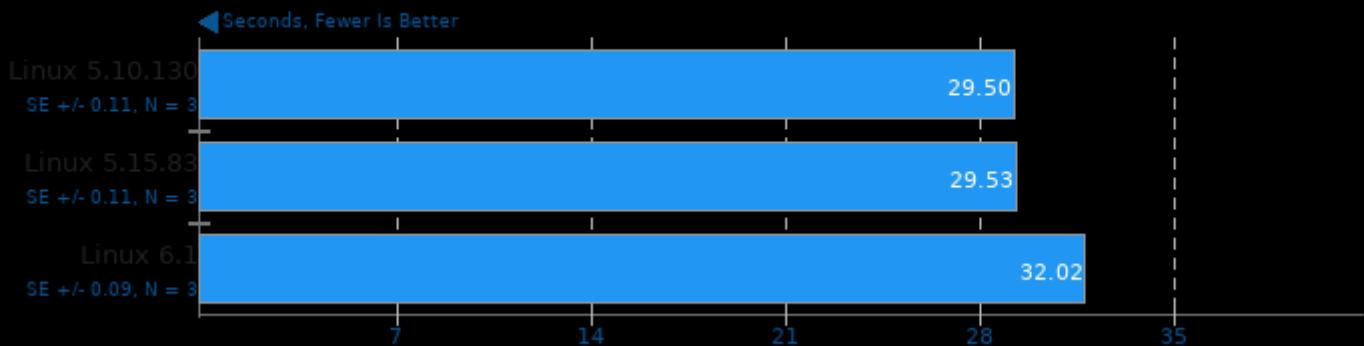
EnCodec 0.1.1

Target Bandwidth: 3 kbps



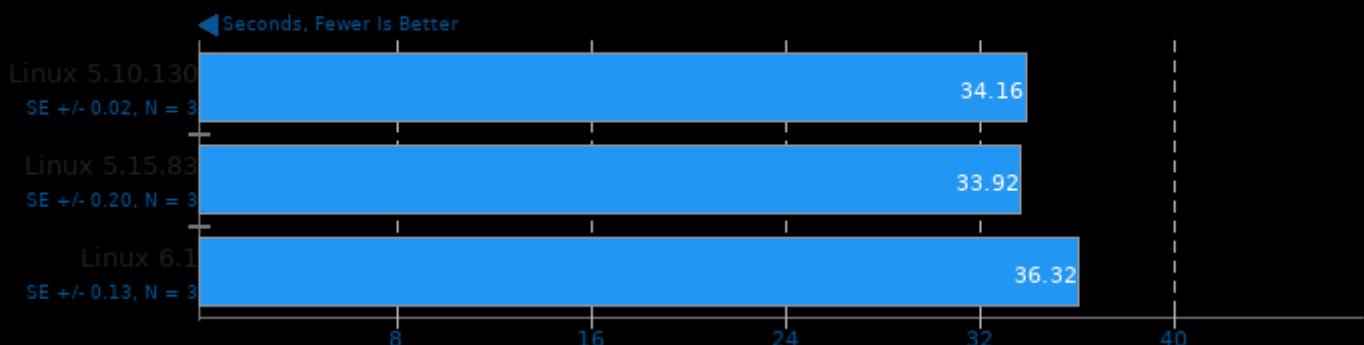
EnCodec 0.1.1

Target Bandwidth: 6 kbps



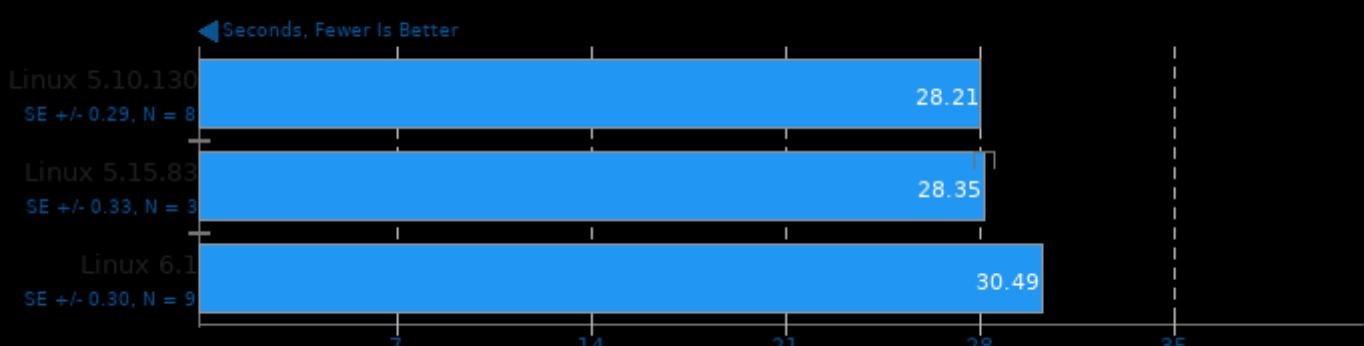
EnCodec 0.1.1

Target Bandwidth: 24 kbps



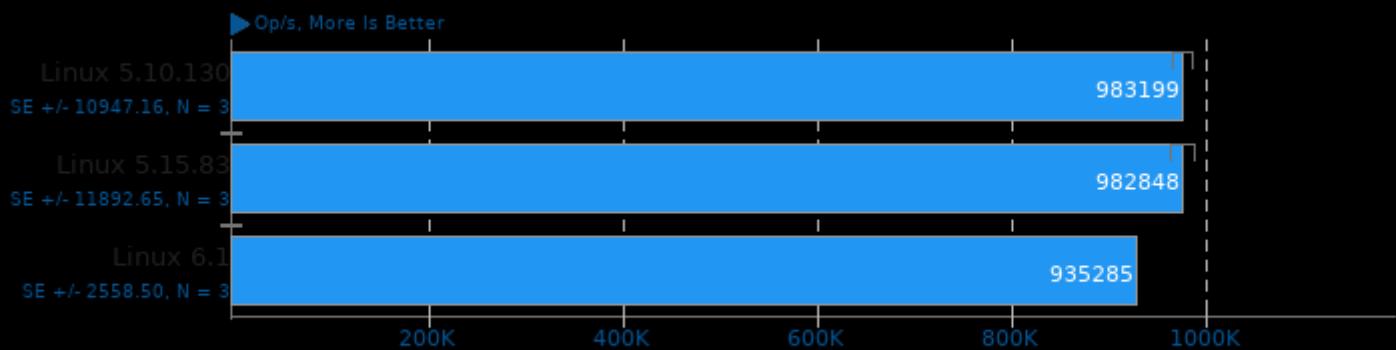
EnCodec 0.1.1

Target Bandwidth: 1.5 kbps



Facebook RocksDB 7.5.3

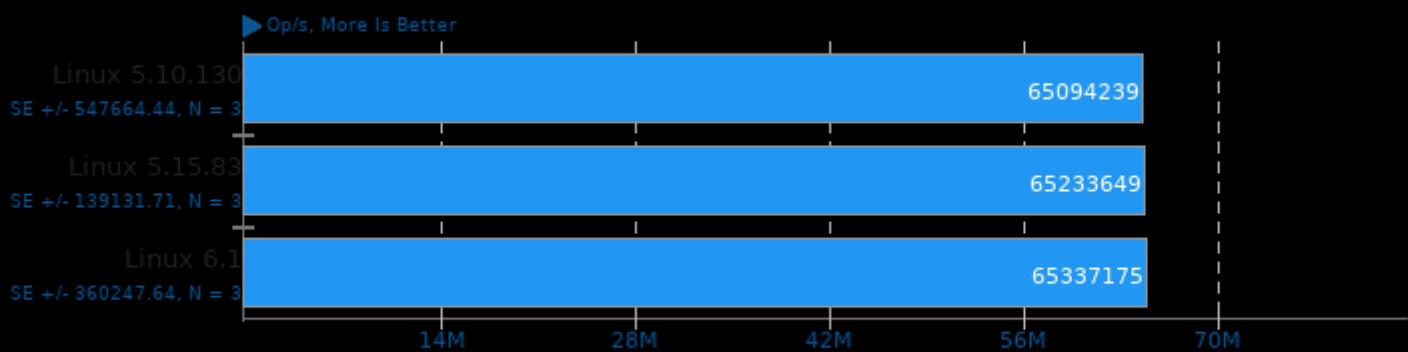
Test: Random Fill



1. (CXX) g++ options: -O3 -march=native -pthread -fno-built-in-memcmp -fno-rtti -lpthread

Facebook RocksDB 7.5.3

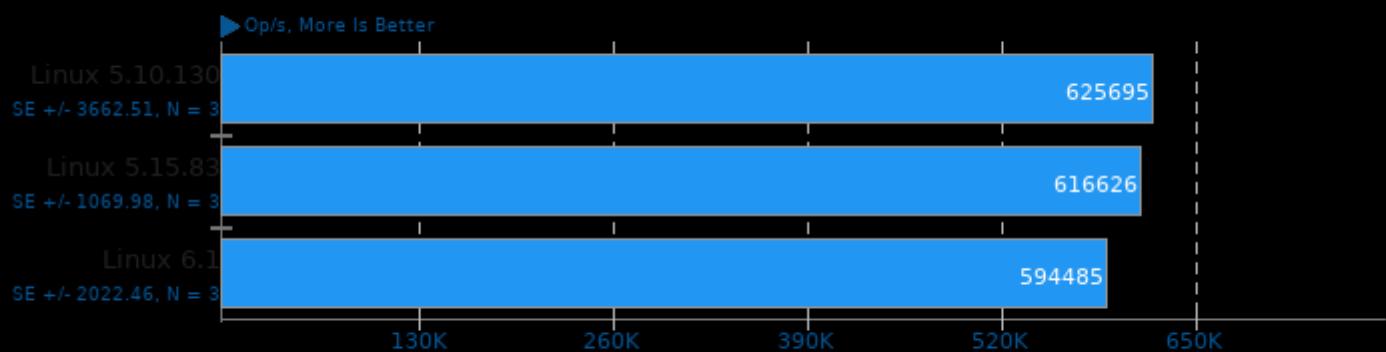
Test: Random Read



1. (CXX) g++ options: -O3 -march=native -pthread -fno-built-in-memcmp -fno-rtti -lpthread

Facebook RocksDB 7.5.3

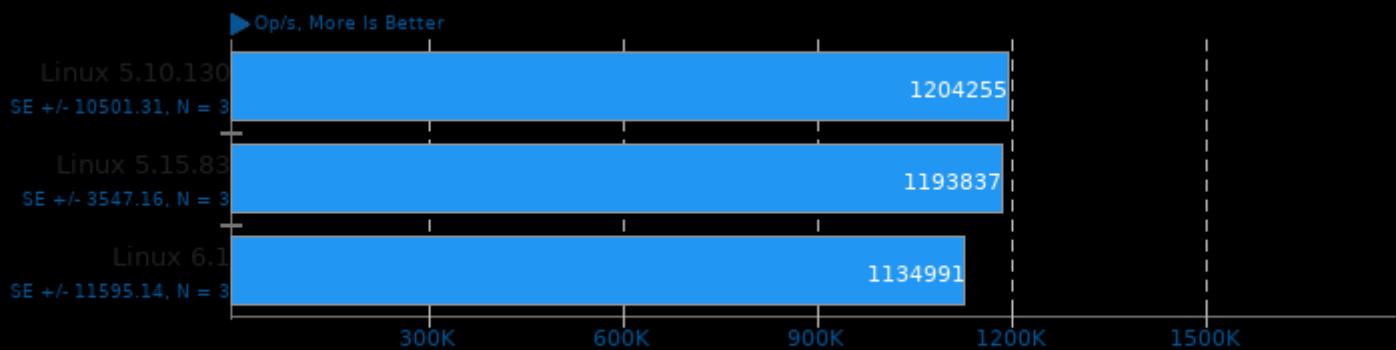
Test: Update Random



1. (CXX) g++ options: -O3 -march=native -pthread -fno-built-in-memcmp -fno-rtti -lpthread

Facebook RocksDB 7.5.3

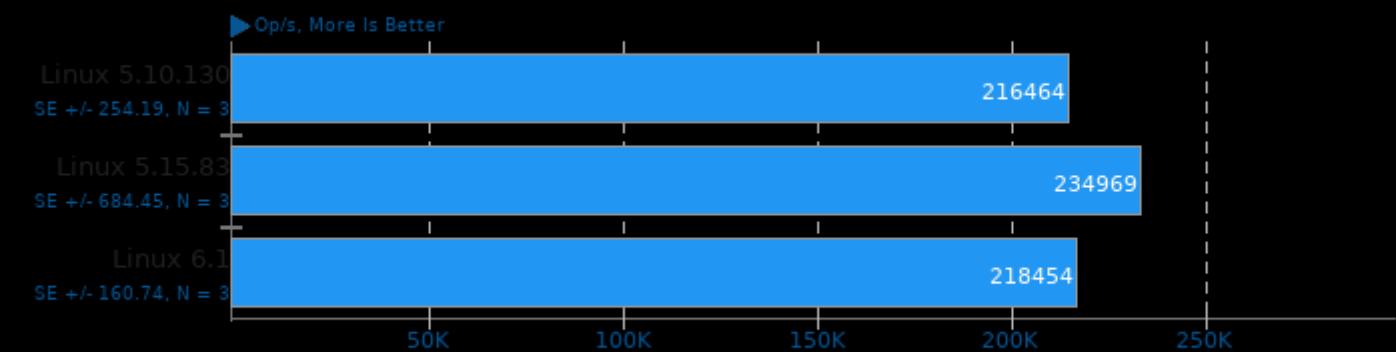
Test: Sequential Fill



1. (CXX) g++ options: -O3 -march=native -pthread -fno-built-in-memcmp -fno-rtti -lpthread

Facebook RocksDB 7.5.3

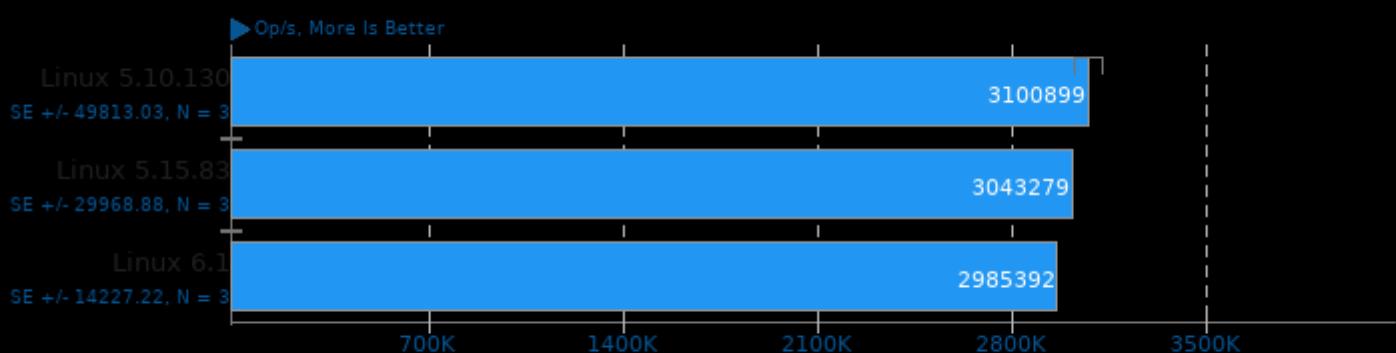
Test: Random Fill Sync



1. (CXX) g++ options: -O3 -march=native -pthread -fno-built-in-memcmp -fno-rtti -lpthread

Facebook RocksDB 7.5.3

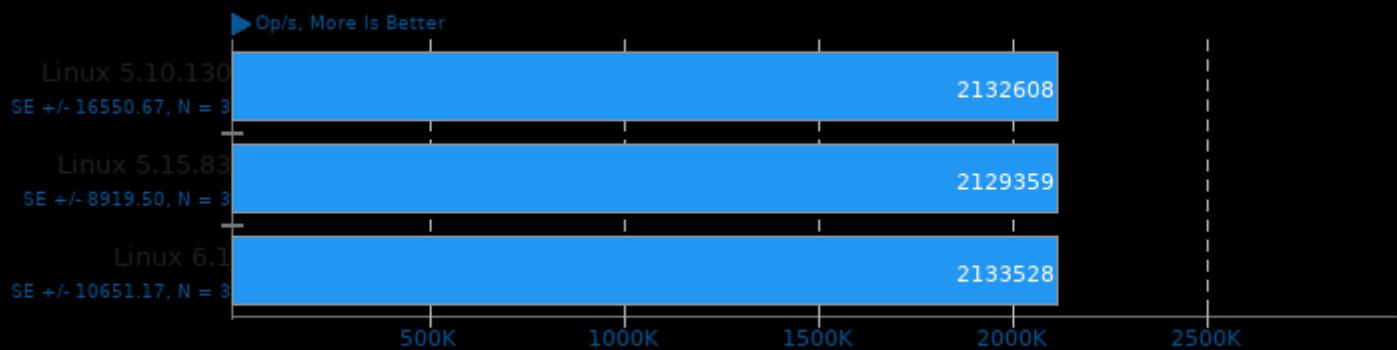
Test: Read While Writing



1. (CXX) g++ options: -O3 -march=native -pthread -fno-built-in-memcmp -fno-rtti -lpthread

Facebook RocksDB 7.5.3

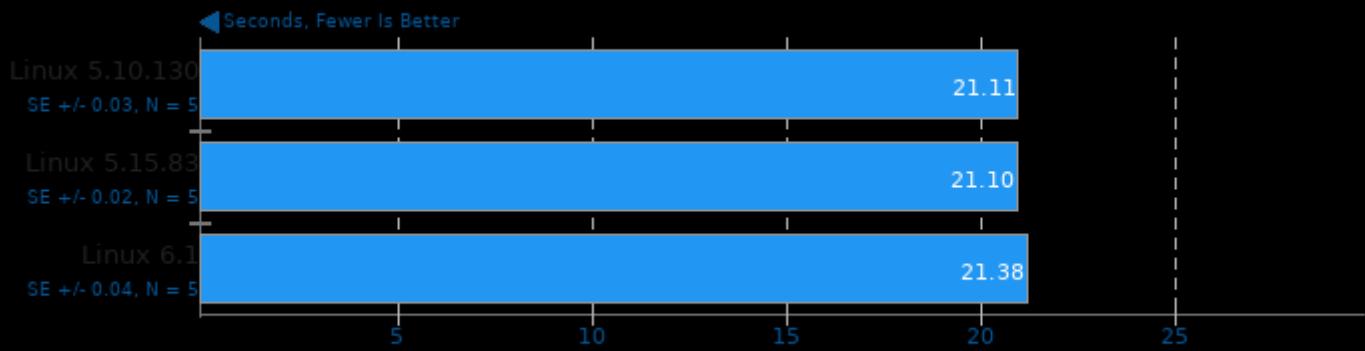
Test: Read Random Write Random



1. (CXX) g++ options: -O3 -march=native -pthread -fno-built-in-memcmp -fno-rtti -pthread

FLAC Audio Encoding 1.4

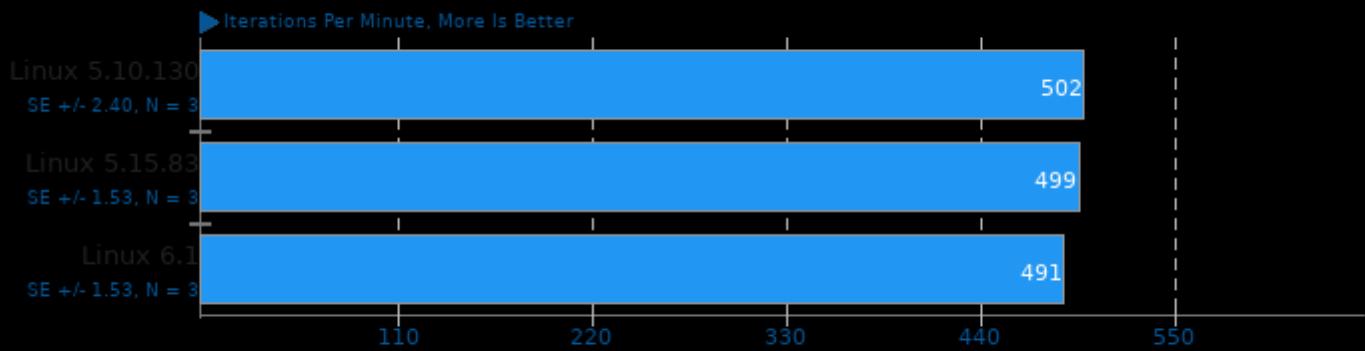
WAV To FLAC



1. (CXX) g++ options: -O3 -fvisibility=hidden -log -lm

GraphicsMagick 1.3.38

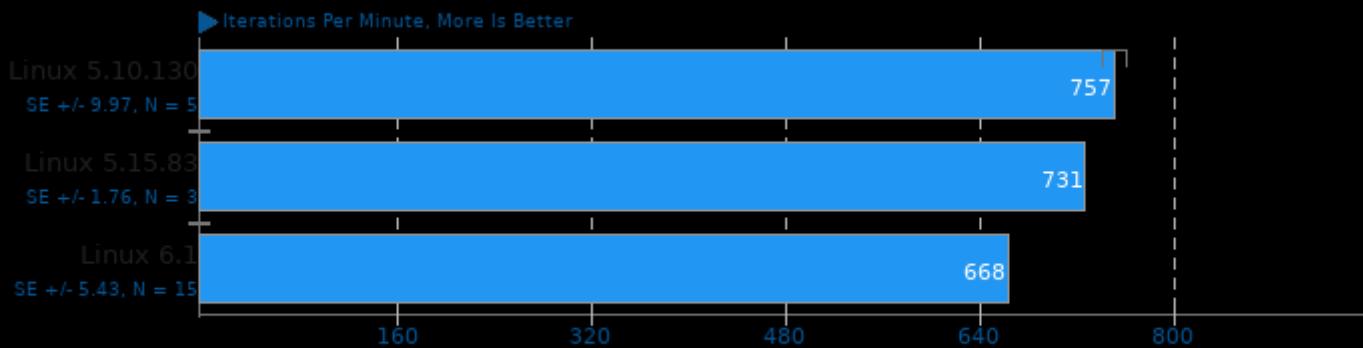
Operation: Swirl



1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -lwebp -lwebpmux -ltiff -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -lxml2 -lz -lm -pthread

GraphicsMagick 1.3.38

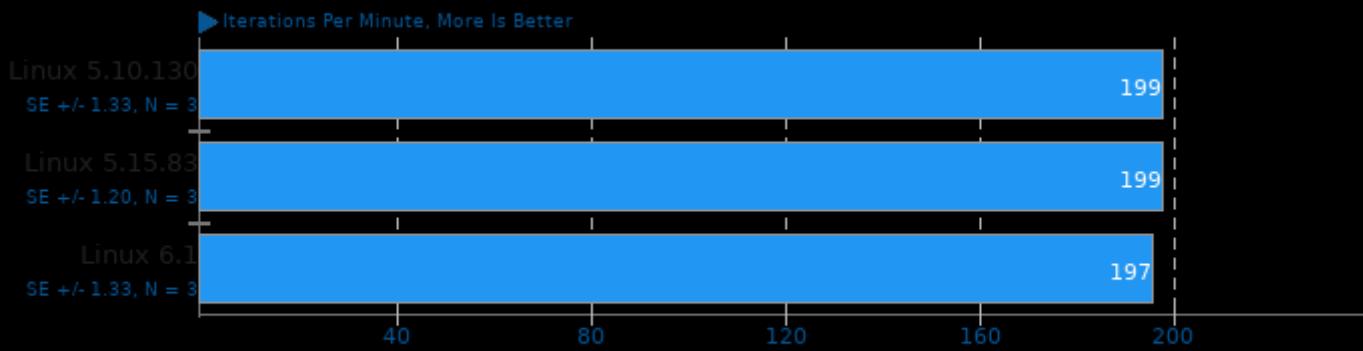
Operation: Rotate



1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -lwebp -lwebpmux -ltiff -freetype -jpeg -lXext -lSM -lICE -lX11 -lzma -bz2 -xml2 -lz -lm -pthread

GraphicsMagick 1.3.38

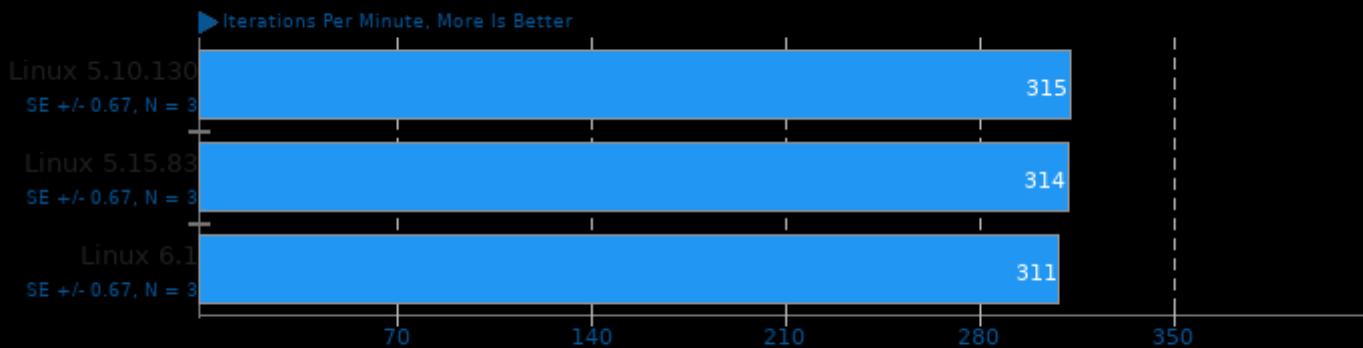
Operation: Sharpen



1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -lwebp -lwebpmux -ltiff -freetype -jpeg -lXext -lSM -lICE -lX11 -lzma -bz2 -xml2 -lz -lm -pthread

GraphicsMagick 1.3.38

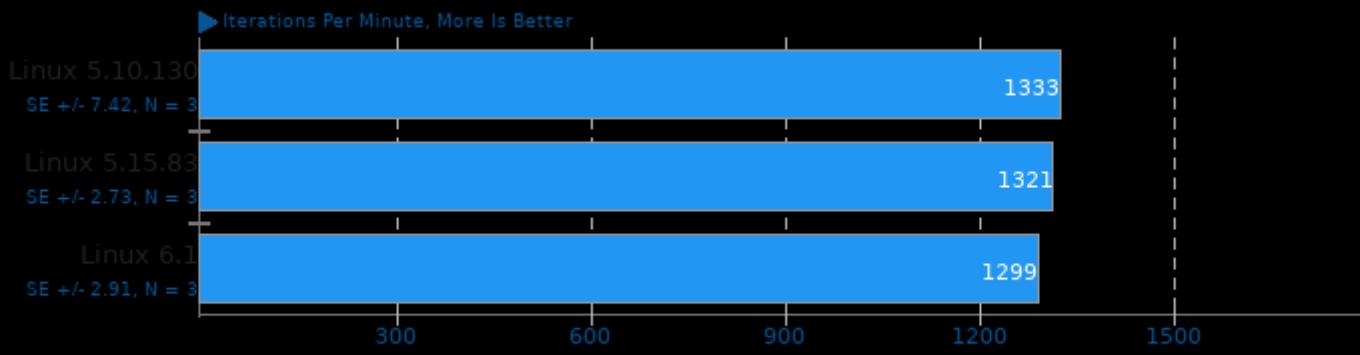
Operation: Enhanced



1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -lwebp -lwebpmux -ltiff -freetype -jpeg -lXext -lSM -lICE -lX11 -lzma -bz2 -xml2 -lz -lm -pthread

GraphicsMagick 1.3.38

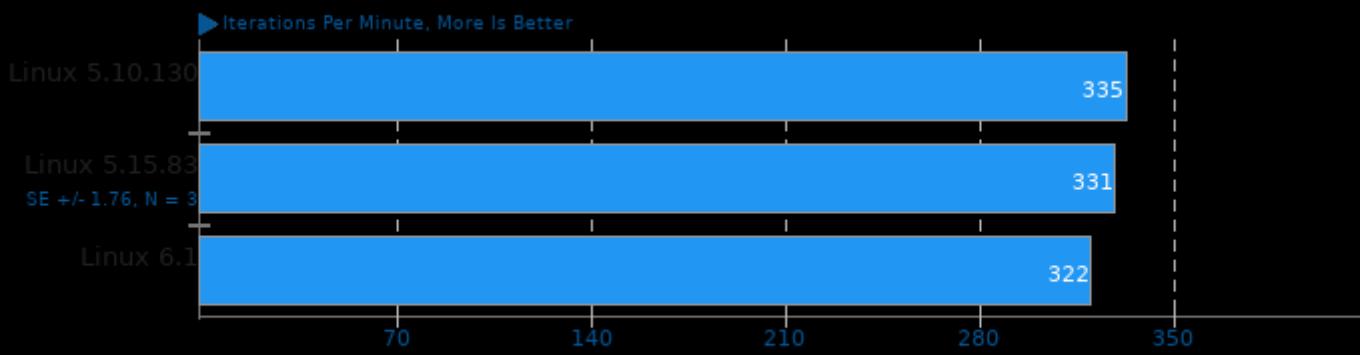
Operation: Resizing



1. (CC) gcc options: -fopenmp -O2 -pthread -ljpeg -lwebp -lwebpmux -ltiff -lfreetype -lxml2 -lm -lpthread

GraphicsMagick 1.3.38

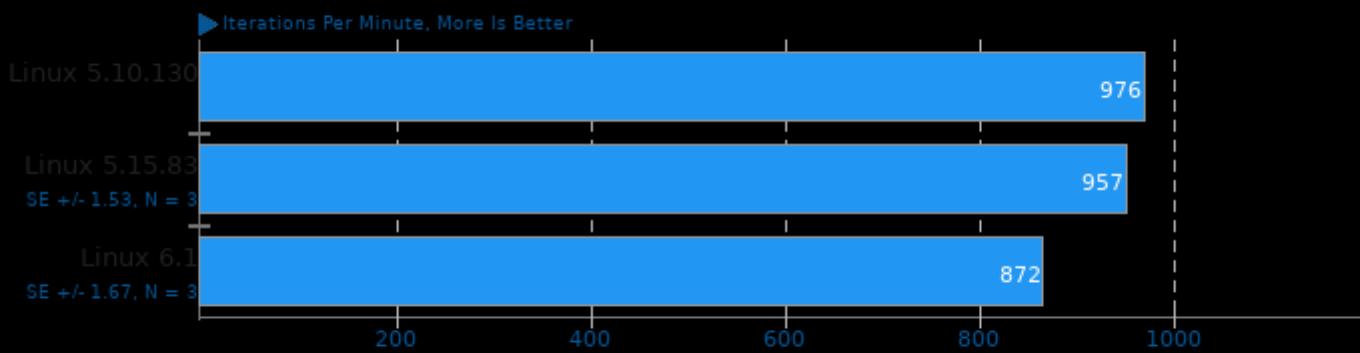
Operation: Noise-Gaussian



1. (CC) gcc options: -fopenmp -O2 -pthread -ljpeg -lwebp -lwebpmux -ltiff -lfreetype -lxml2 -lm -lpthread

GraphicsMagick 1.3.38

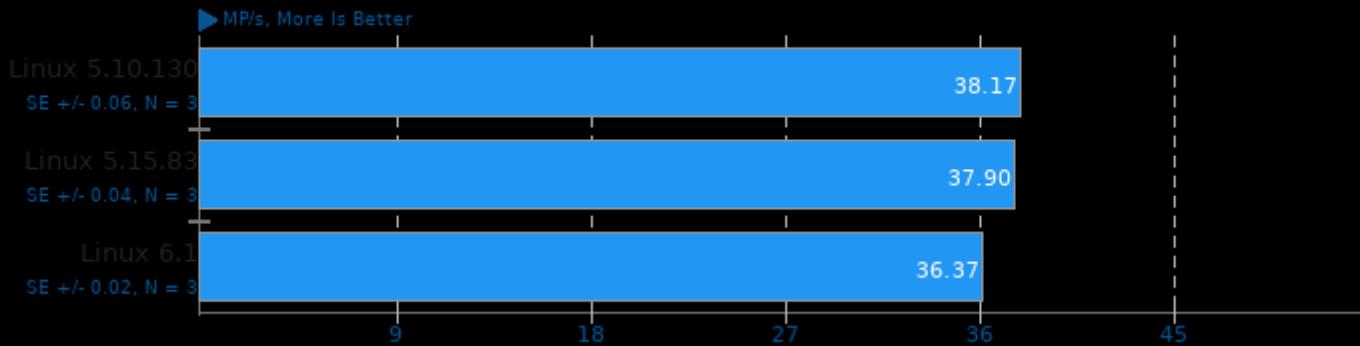
Operation: HWB Color Space



1. (CC) gcc options: -fopenmp -O2 -pthread -ljpeg -lwebp -lwebpmux -ltiff -lfreetype -lxml2 -lm -lpthread

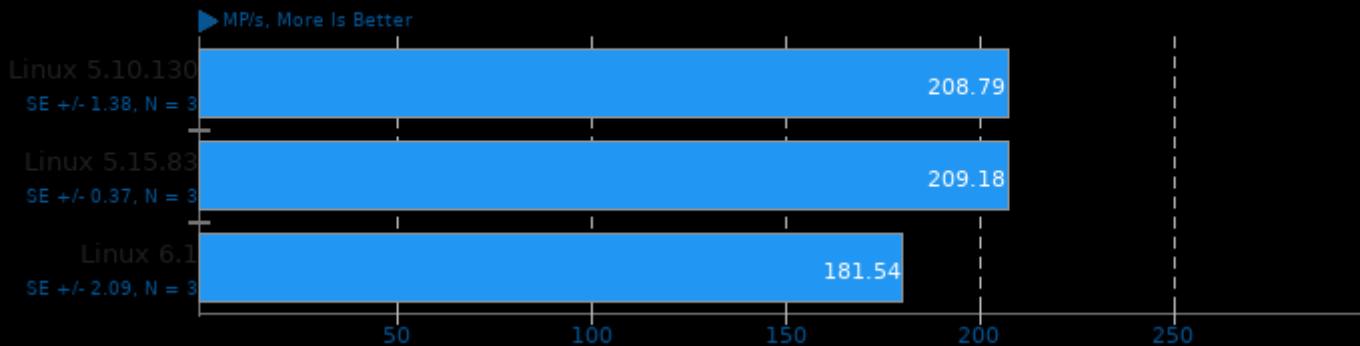
JPEG XL Decoding libjxl 0.7

CPU Threads: 1



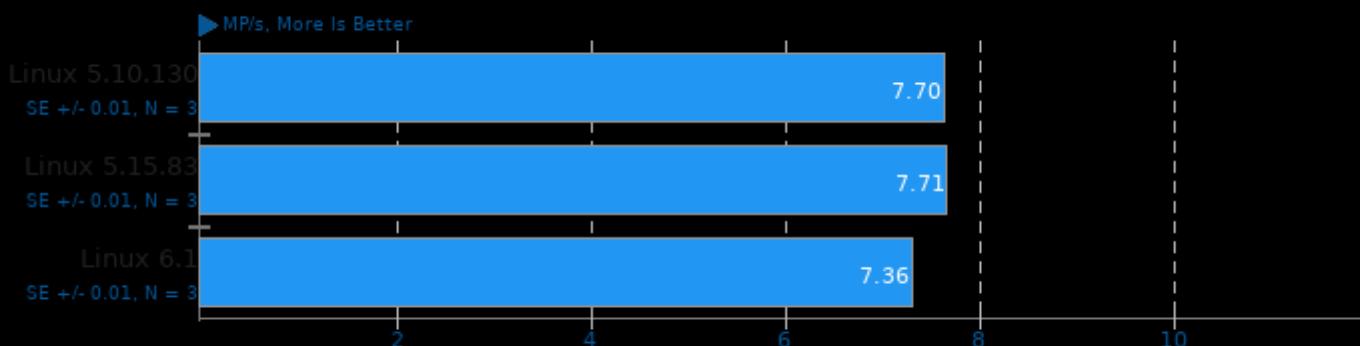
JPEG XL Decoding libjxl 0.7

CPU Threads: All



JPEG XL libjxl 0.7

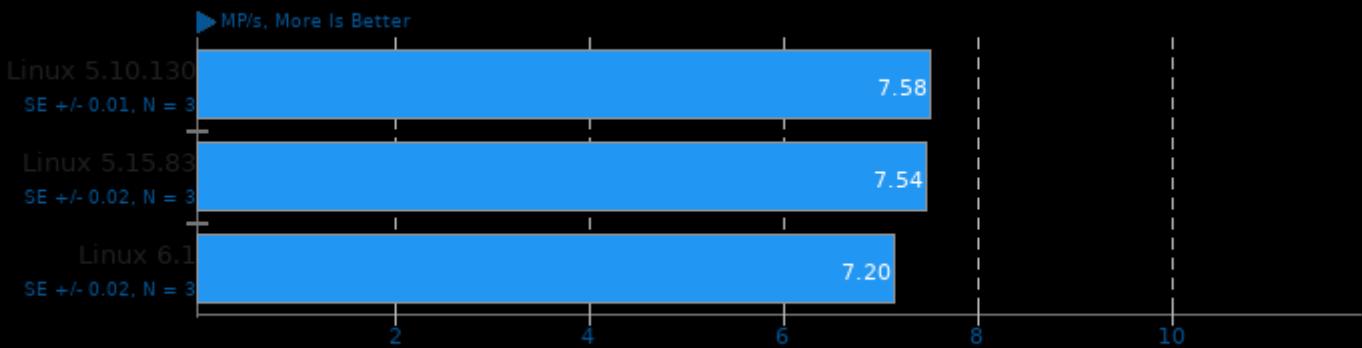
Input: PNG - Quality: 80



1. (CXX) g++ options: -fno-rtti -funwind-tables -O3 -O2 -fPIE -pie -lm -pthread -latomic

JPEG XL libjxl 0.7

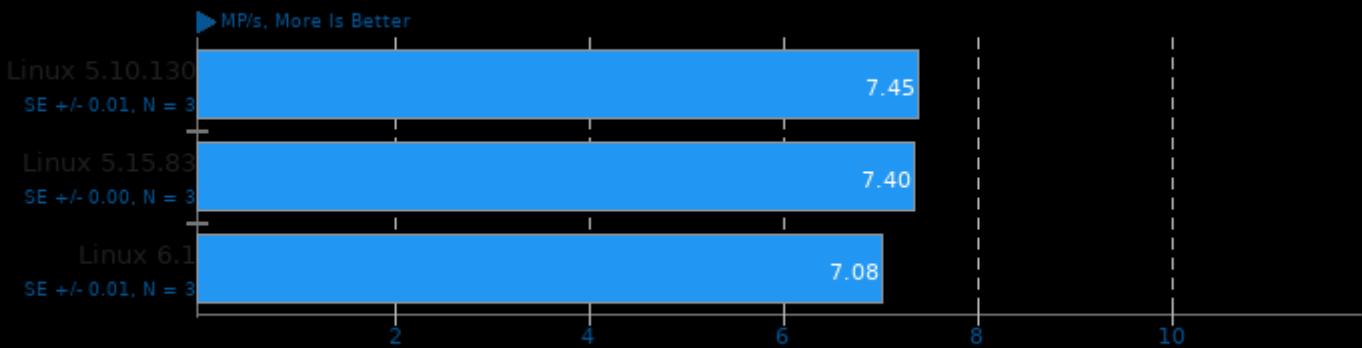
Input: PNG - Quality: 90



1. (CXX) g++ options: -fno-rtti -funwind-tables -O3 -O2 -fPIE -pie -lm -pthread -latomic

JPEG XL libjxl 0.7

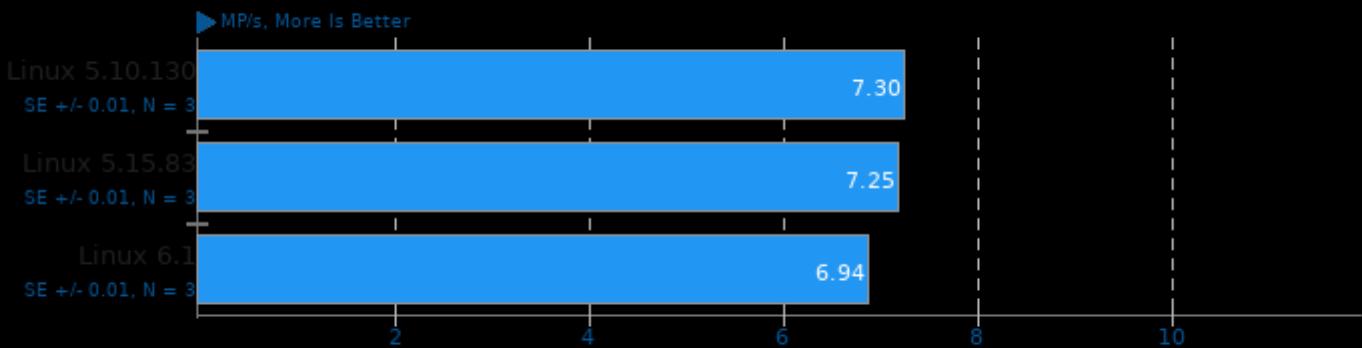
Input: JPEG - Quality: 80



1. (CXX) g++ options: -fno-rtti -funwind-tables -O3 -O2 -fPIE -pie -lm -pthread -latomic

JPEG XL libjxl 0.7

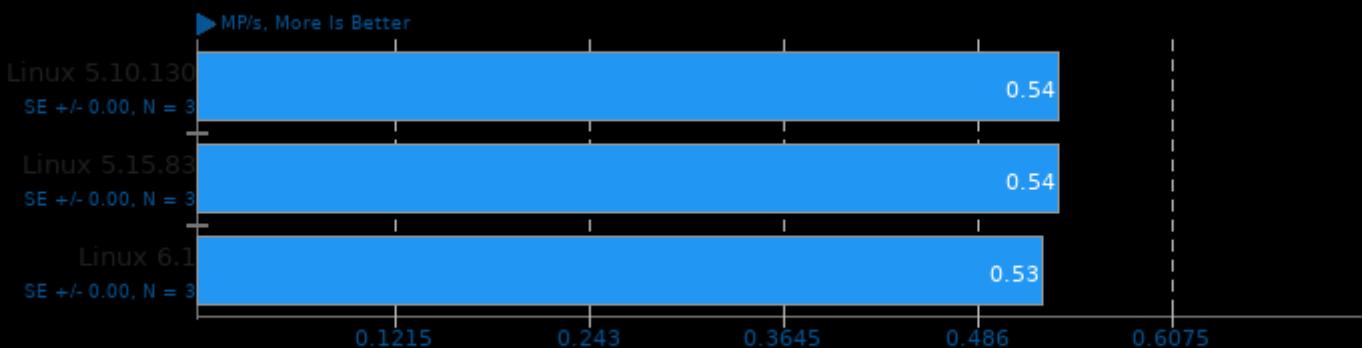
Input: JPEG - Quality: 90



1. (CXX) g++ options: -fno-rtti -funwind-tables -O3 -O2 -fPIE -pie -lm -pthread -latomic

JPEG XL libjxl 0.7

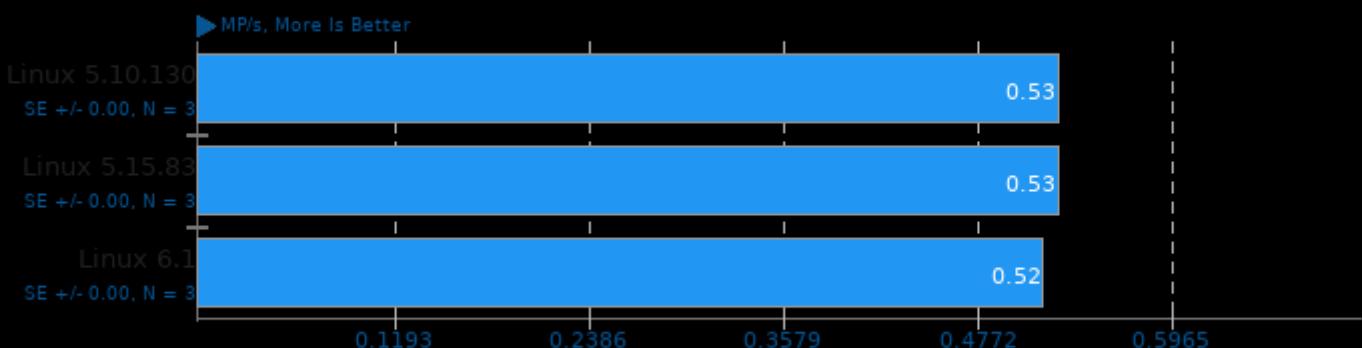
Input: PNG - Quality: 100



1. (CXX) g++ options: -fno-rtti -funwind-tables -O3 -O2 -fPIE -pie -lm -pthread -latomic

JPEG XL libjxl 0.7

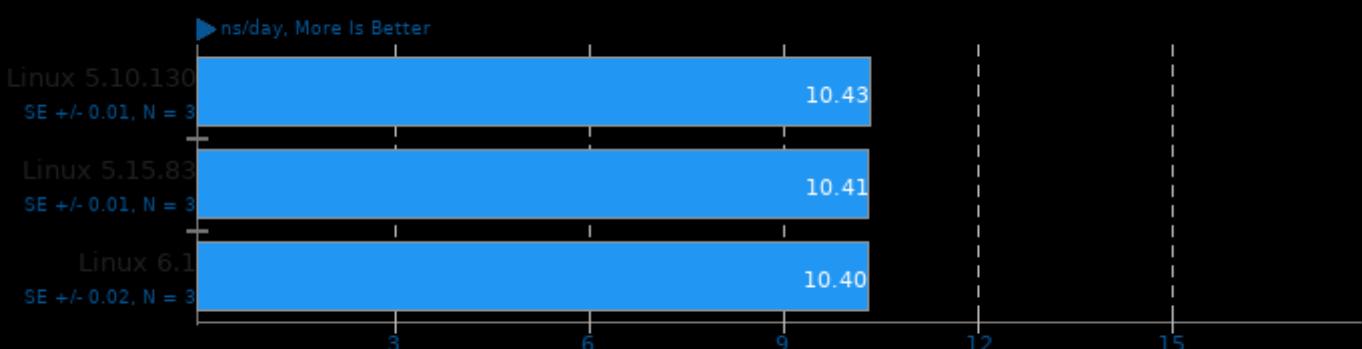
Input: JPEG - Quality: 100



1. (CXX) g++ options: -fno-rtti -funwind-tables -O3 -O2 -fPIE -pie -lm -pthread -latomic

LAMMPS Molecular Dynamics Simulator 23Jun2022

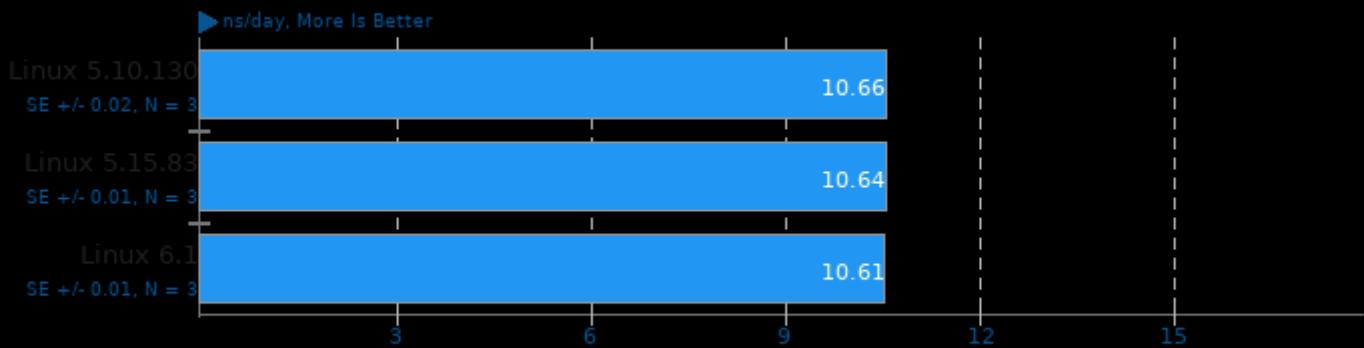
Model: 20k Atoms



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

LAMMPS Molecular Dynamics Simulator 23Jun2022

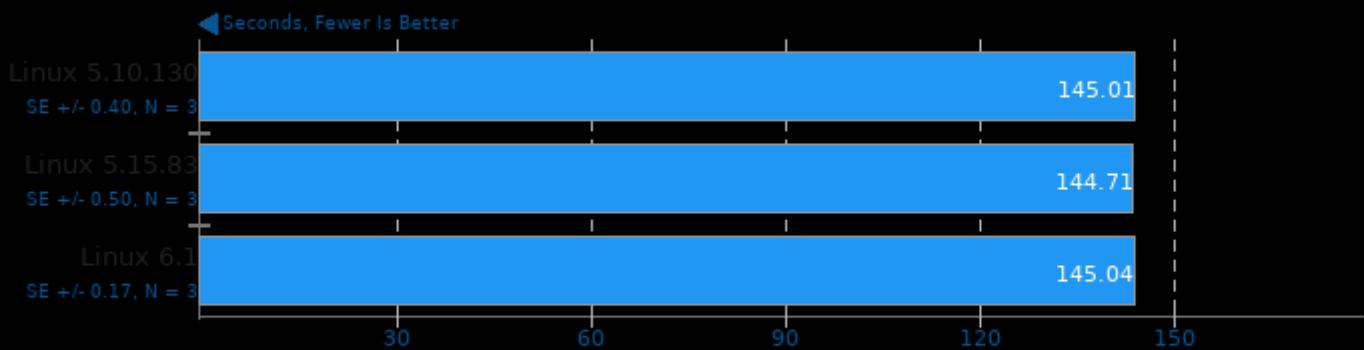
Model: Rhodopsin Protein



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

libavif avifenc 0.11

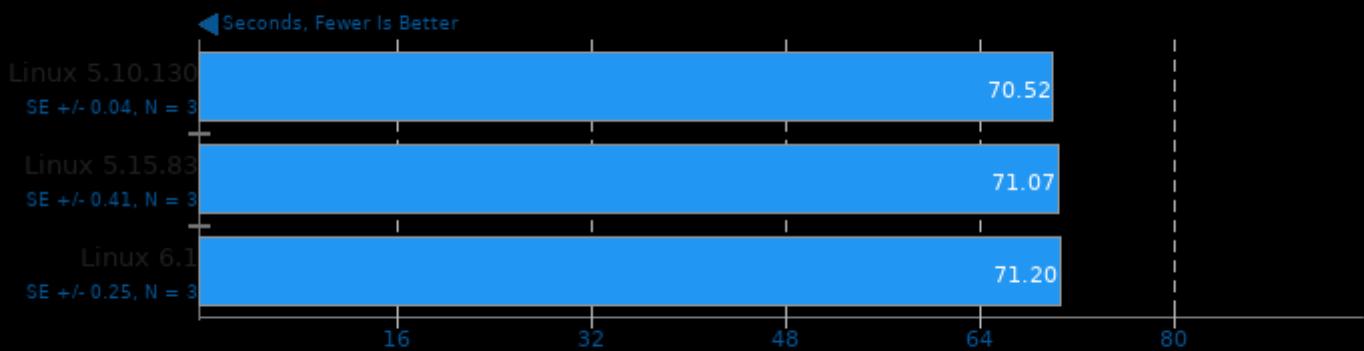
Encoder Speed: 0



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

libavif avifenc 0.11

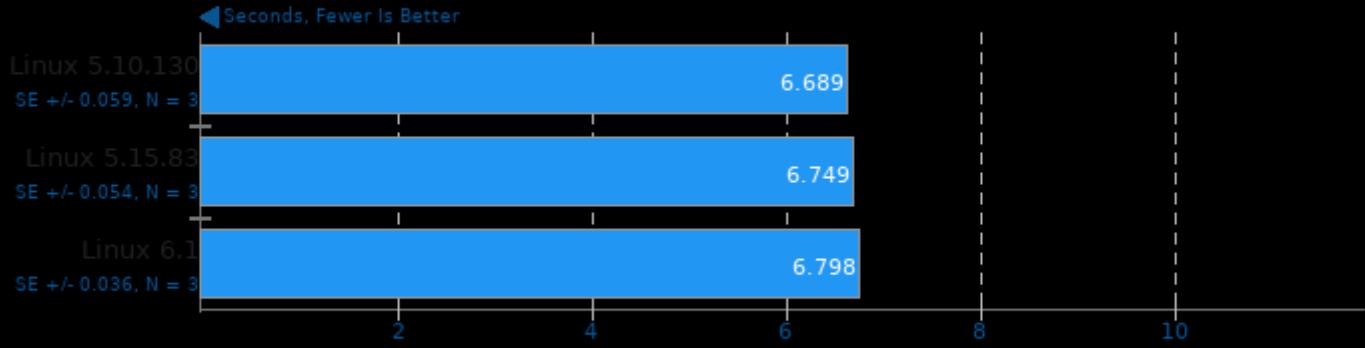
Encoder Speed: 2



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

libavif avifenc 0.11

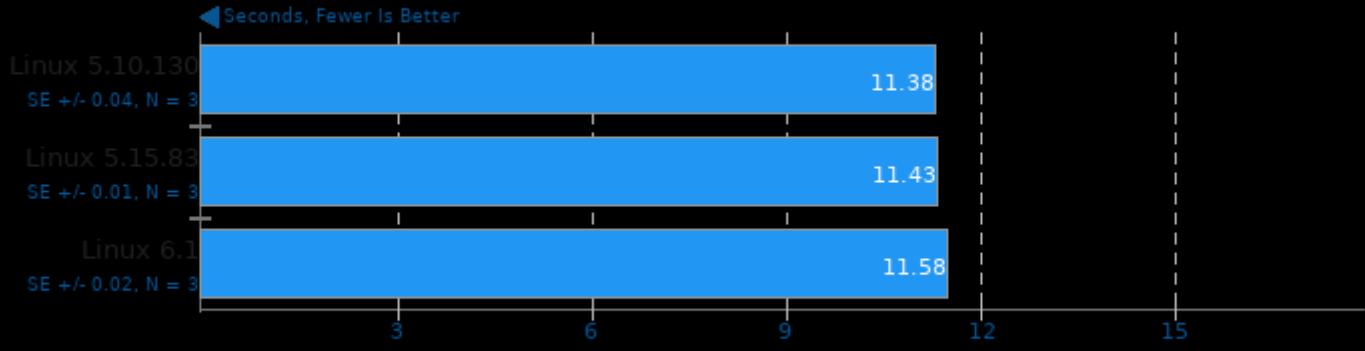
Encoder Speed: 6



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

libavif avifenc 0.11

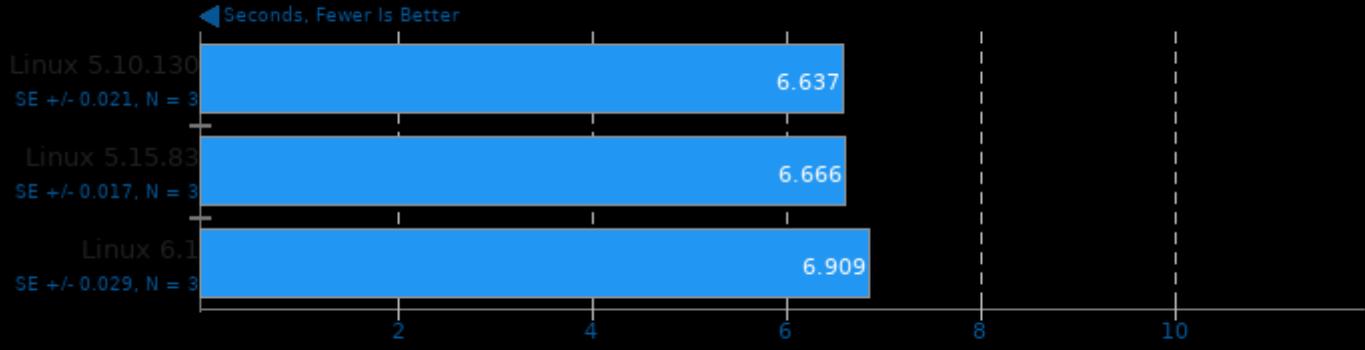
Encoder Speed: 6, Lossless



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

libavif avifenc 0.11

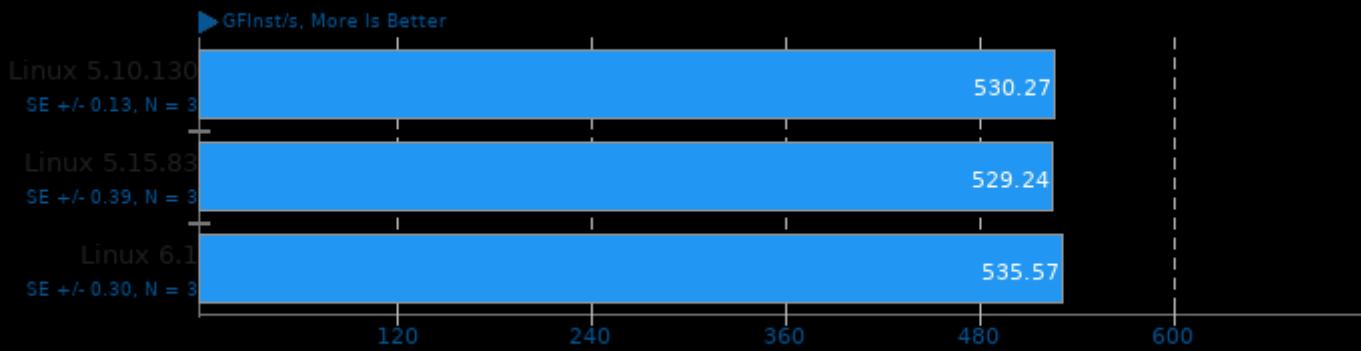
Encoder Speed: 10, Lossless



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

miniBUDE 20210901

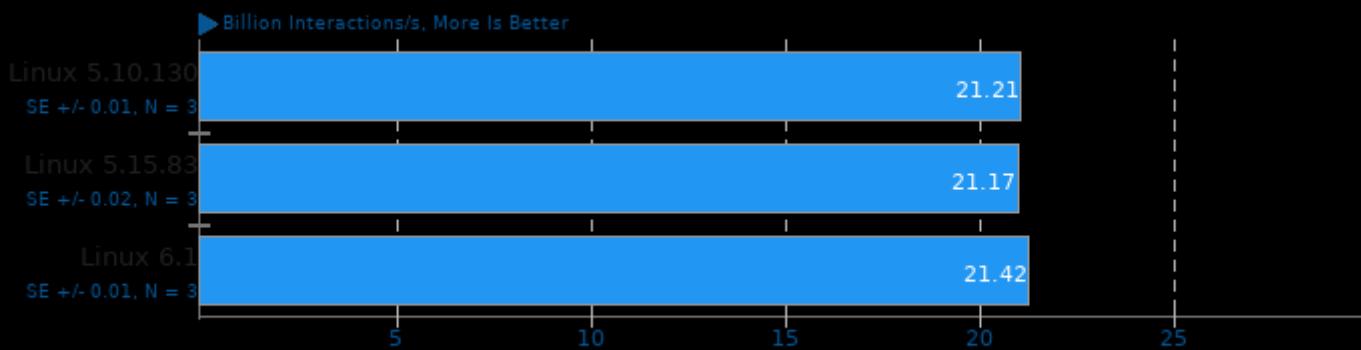
Implementation: OpenMP - Input Deck: BM1



1. (CC) gcc options: -std=c99 -Ofast -ffast-math -fopenmp -march=native -lm

miniBUDE 20210901

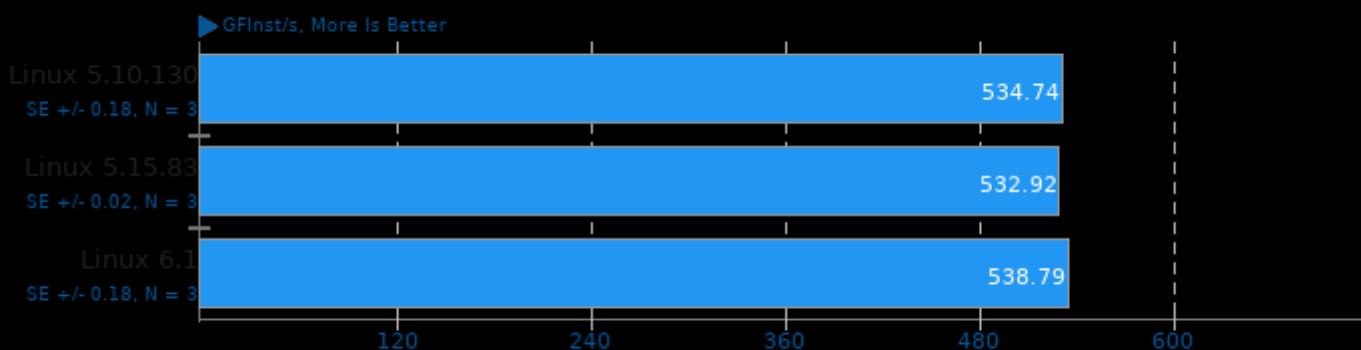
Implementation: OpenMP - Input Deck: BM1



1. (CC) gcc options: -std=c99 -Ofast -ffast-math -fopenmp -march=native -lm

miniBUDE 20210901

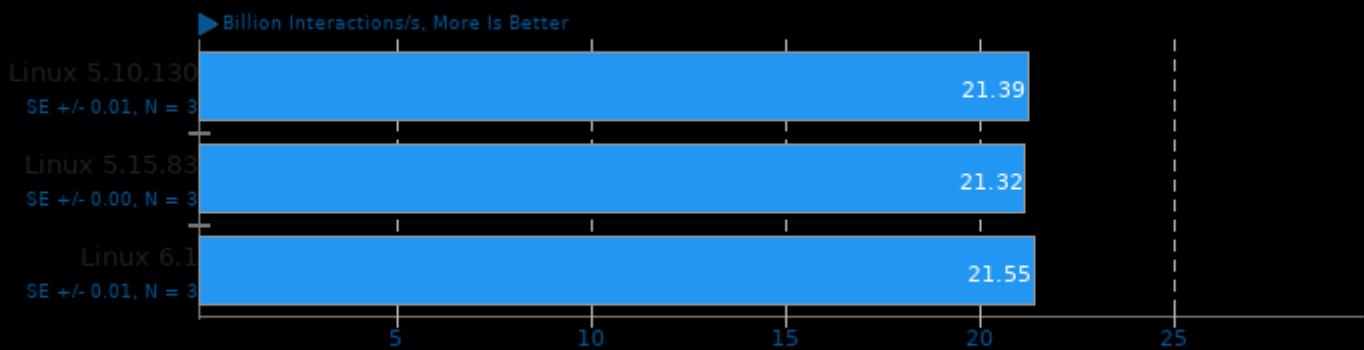
Implementation: OpenMP - Input Deck: BM2



1. (CC) gcc options: -std=c99 -Ofast -ffast-math -fopenmp -march=native -lm

miniBUDE 20210901

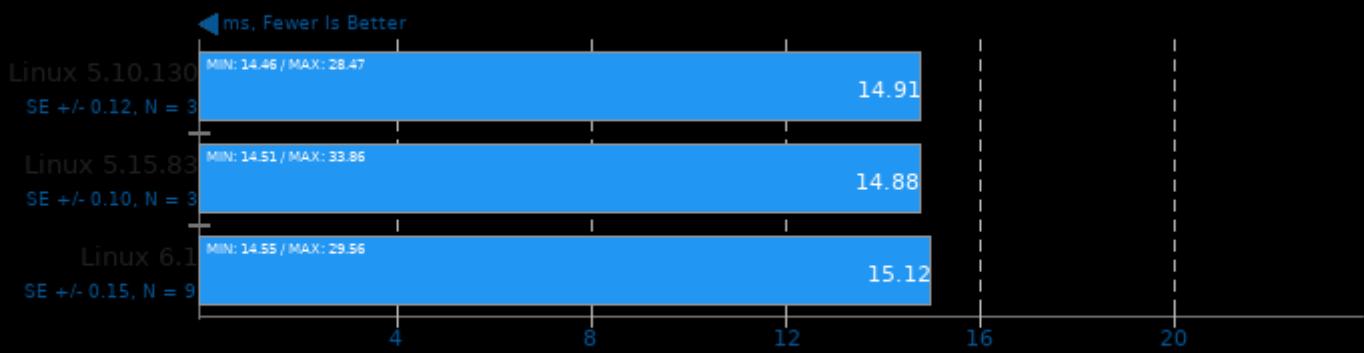
Implementation: OpenMP - Input Deck: BM2



1. (CC) gcc options: -std=c99 -Ofast -ffast-math -fopenmp -march=native -lm

Mobile Neural Network 2.1

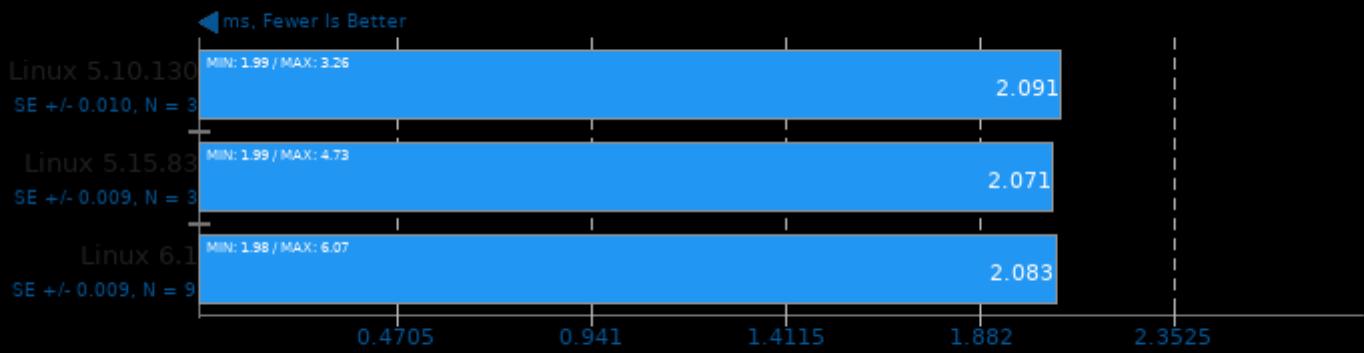
Model: nasnet



1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fno-threadsafe-statics

Mobile Neural Network 2.1

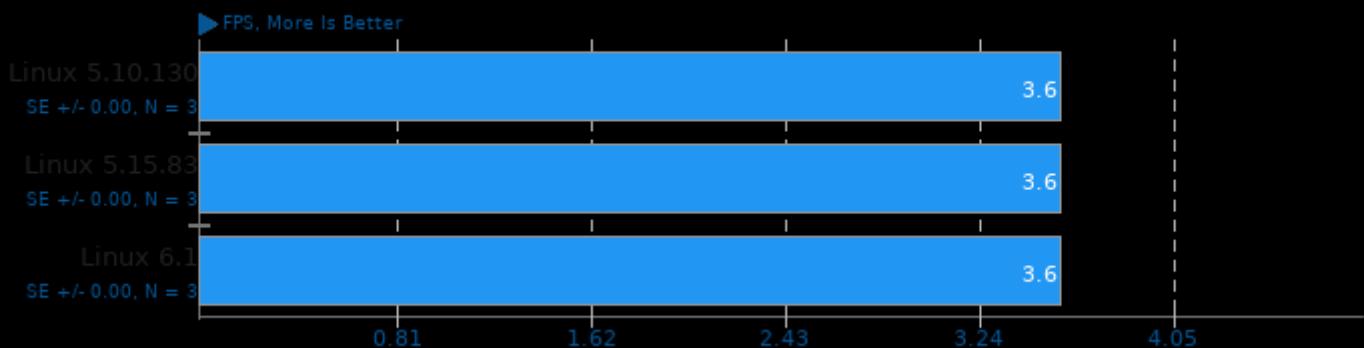
Model: mobilenetV3



1. (CXX) g++ options: -std=c++11 -O3 -fvisibility=hidden -fomit-frame-pointer -fstrict-aliasing -ffunction-sections -fdata-sections -ffast-math -fno-rtti -fno-threadsafe-statics

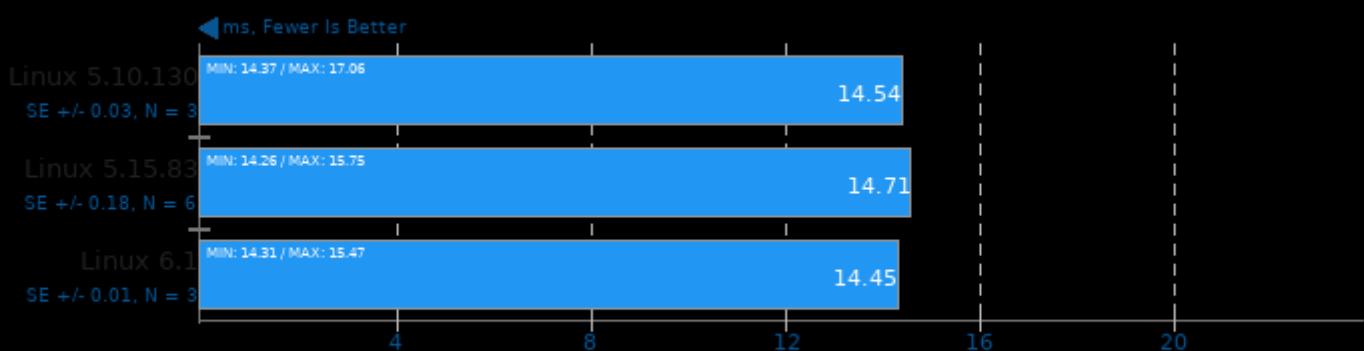
Natron 2.4.3

Input: Spaceship



NCNN 20220729

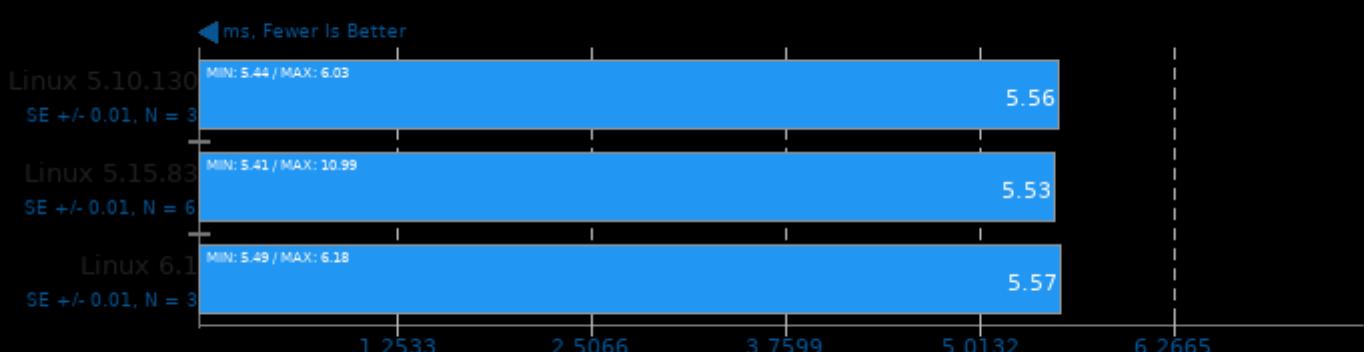
Target: CPU - Model: mobilenet



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

NCNN 20220729

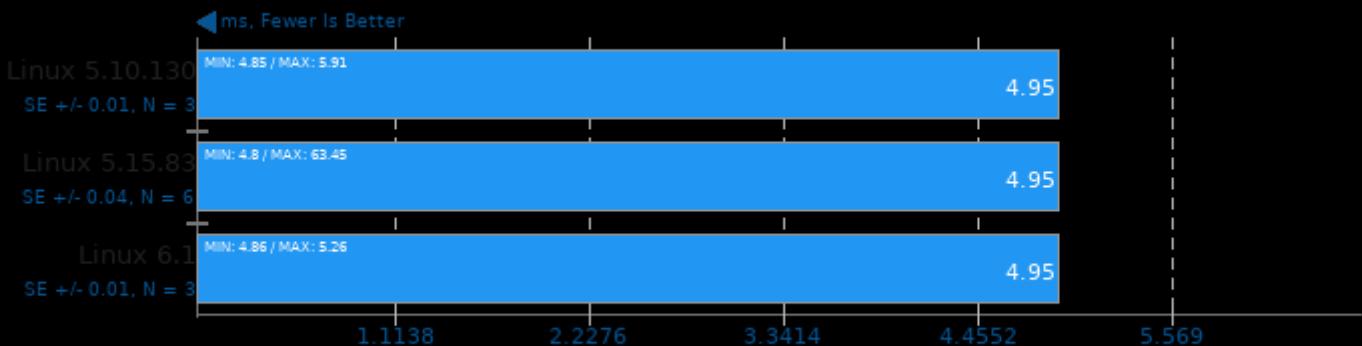
Target: CPU-v2-v2 - Model: mobilenet-v2



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

NCNN 20220729

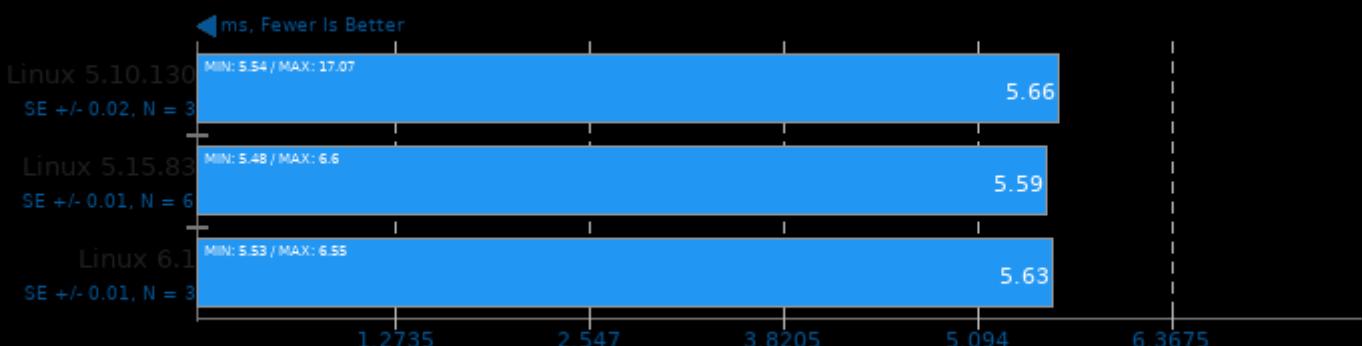
Target: CPU-v3-v3 - Model: mobilenet-v3



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

NCNN 20220729

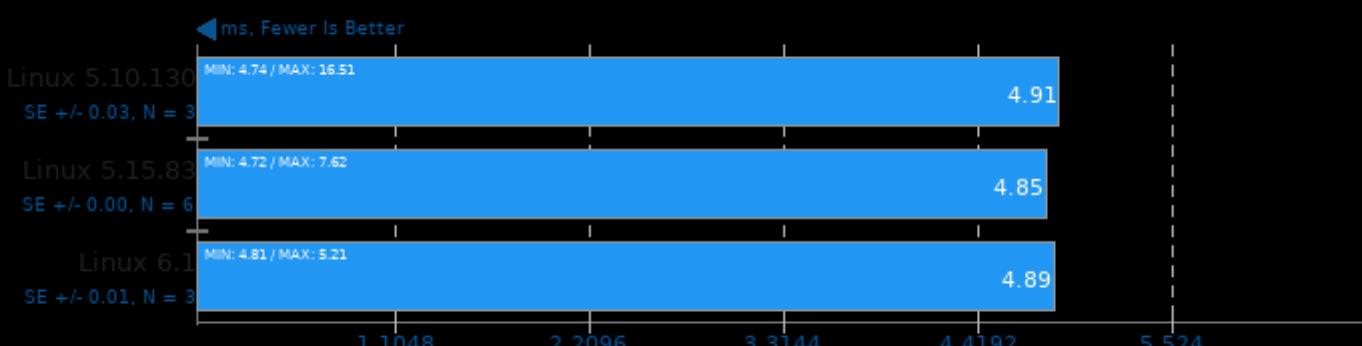
Target: CPU - Model: shufflenet-v2



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

NCNN 20220729

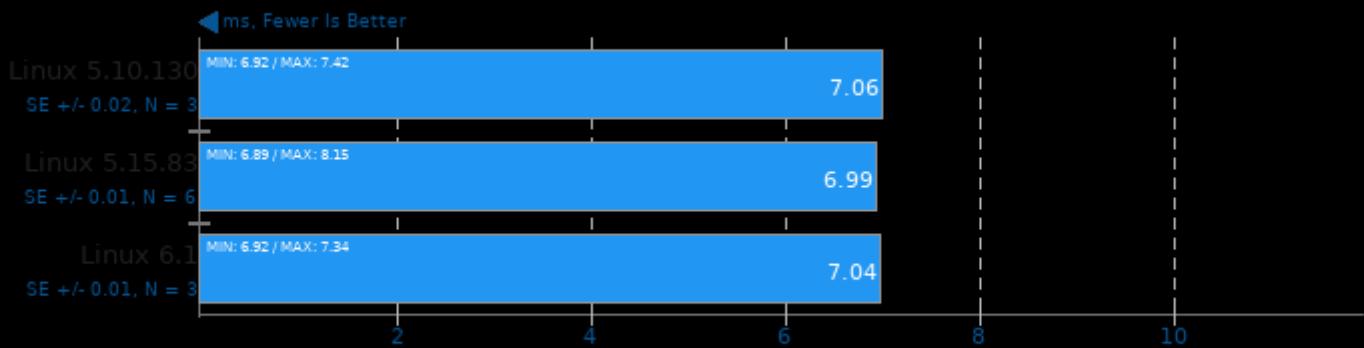
Target: CPU - Model: mnasnet



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

NCNN 20220729

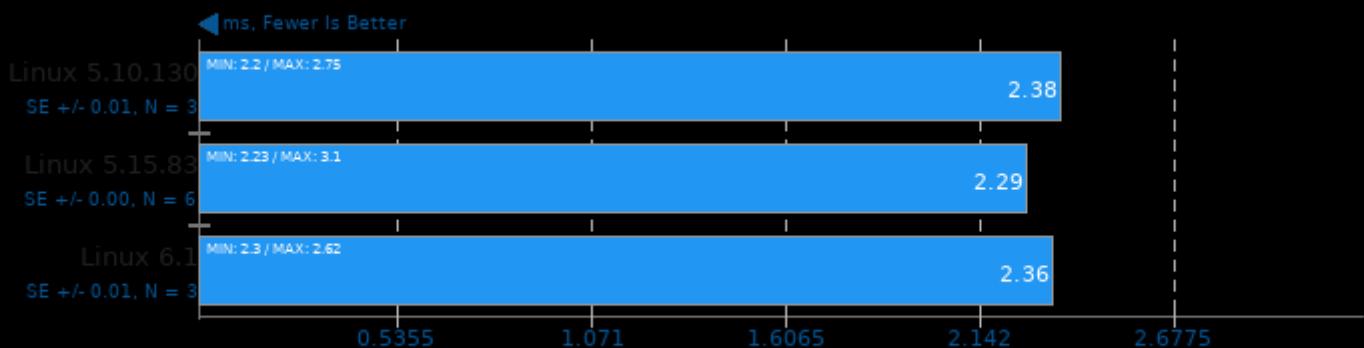
Target: CPU - Model: efficientnet-b0



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

NCNN 20220729

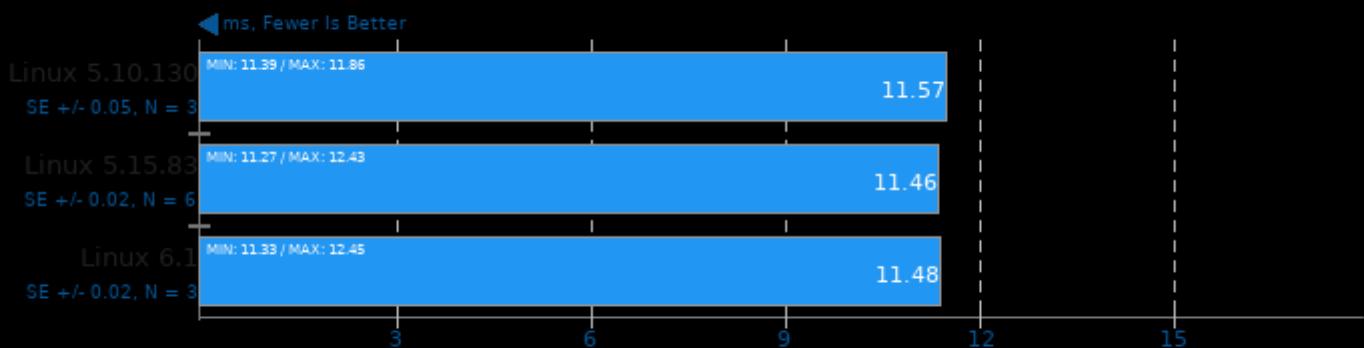
Target: CPU - Model: blazeface



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

NCNN 20220729

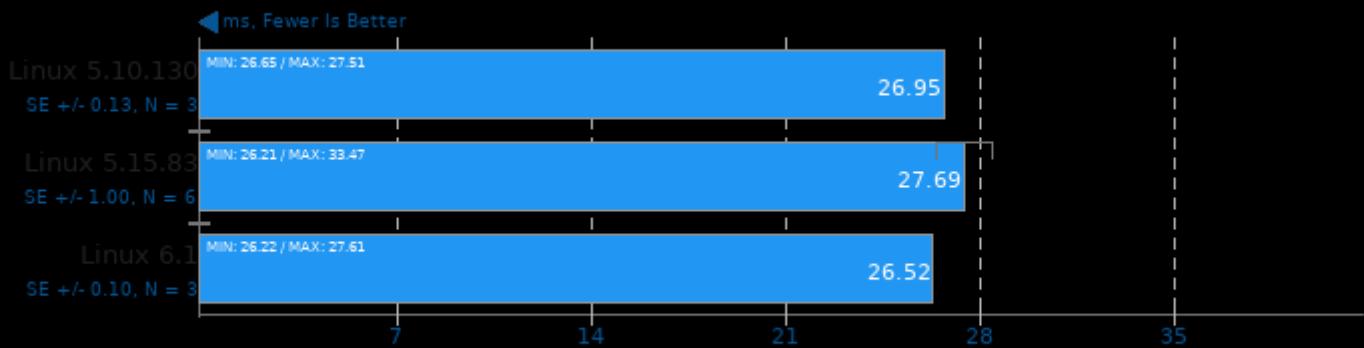
Target: CPU - Model: googlenet



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

NCNN 20220729

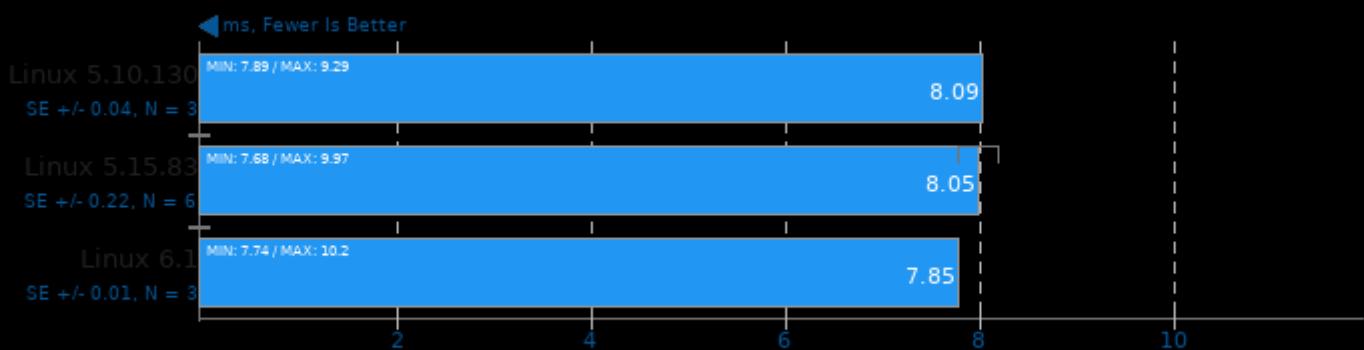
Target: CPU - Model: vgg16



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

NCNN 20220729

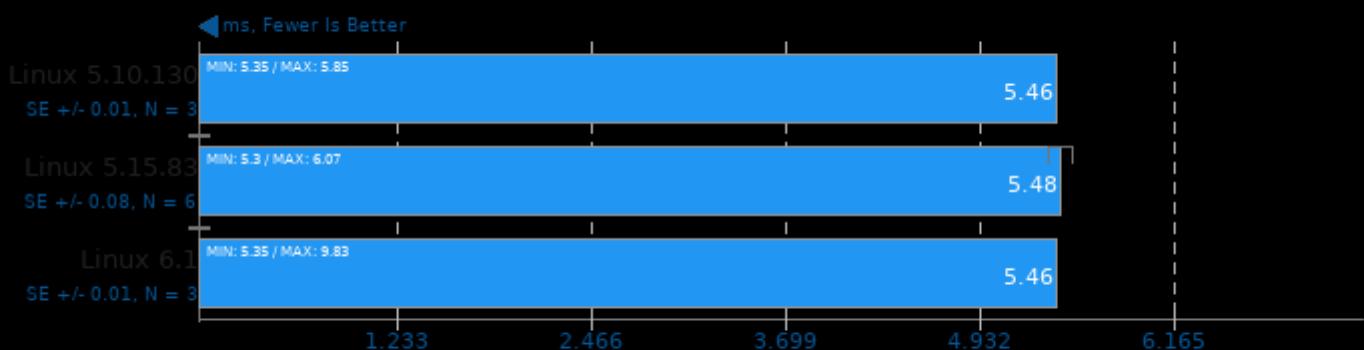
Target: CPU - Model: resnet18



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

NCNN 20220729

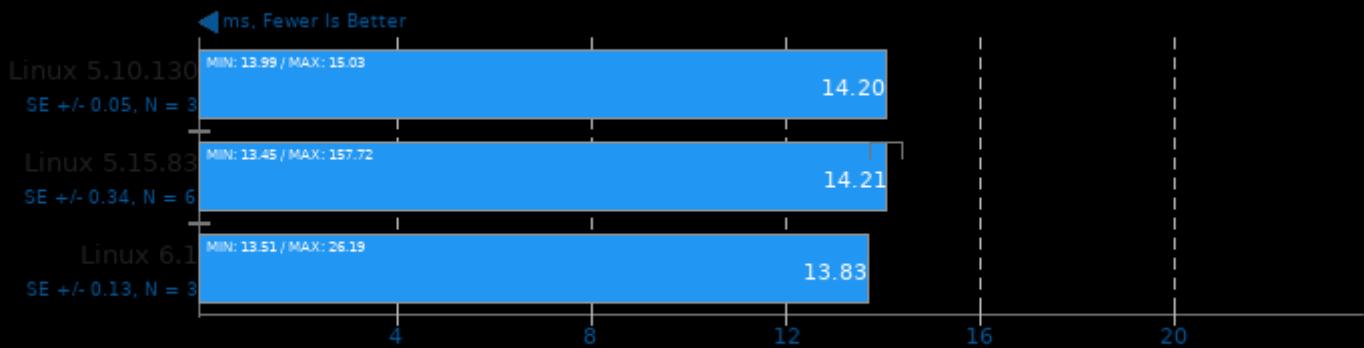
Target: CPU - Model: alexnet



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

NCNN 20220729

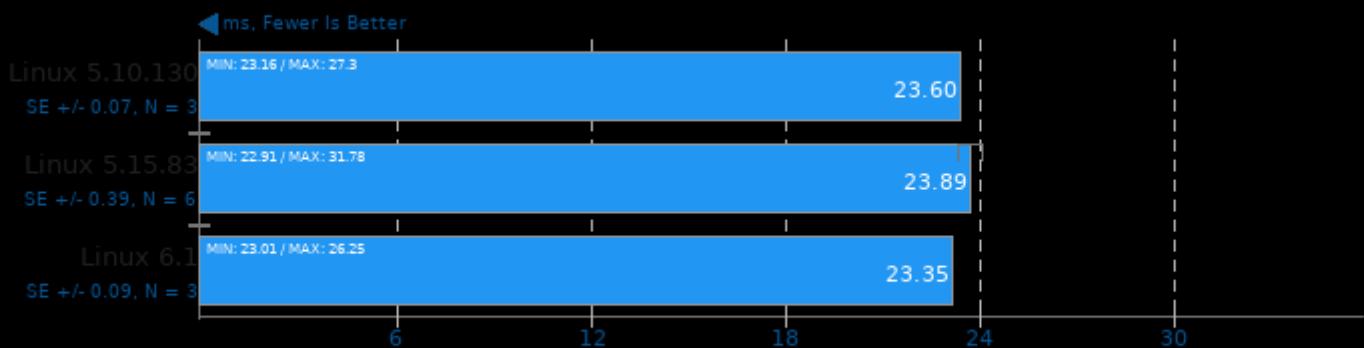
Target: CPU - Model: resnet50



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

NCNN 20220729

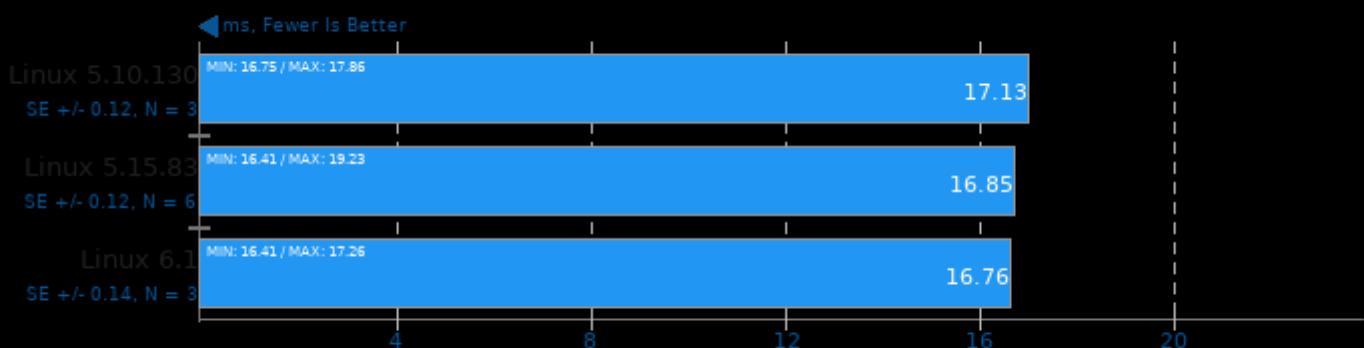
Target: CPU - Model: yolov4-tiny



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

NCNN 20220729

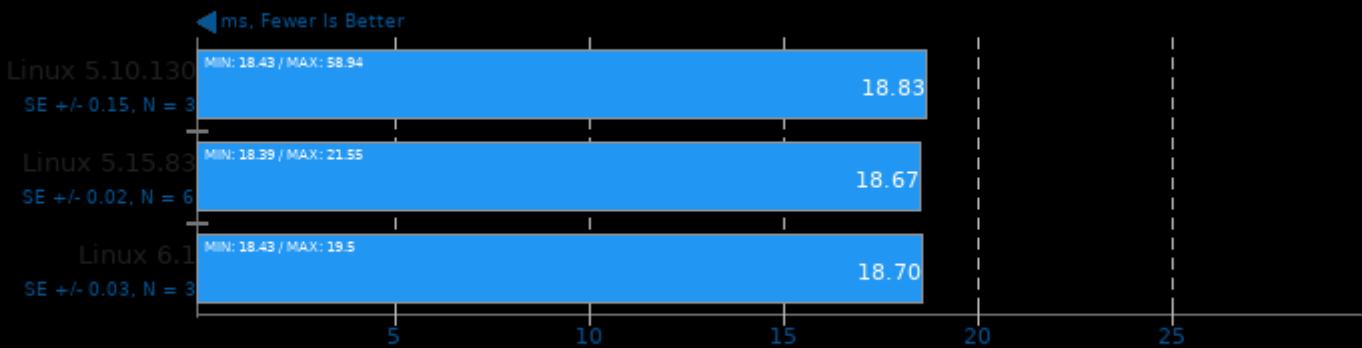
Target: CPU - Model: squeezezenet_ssd



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

NCNN 20220729

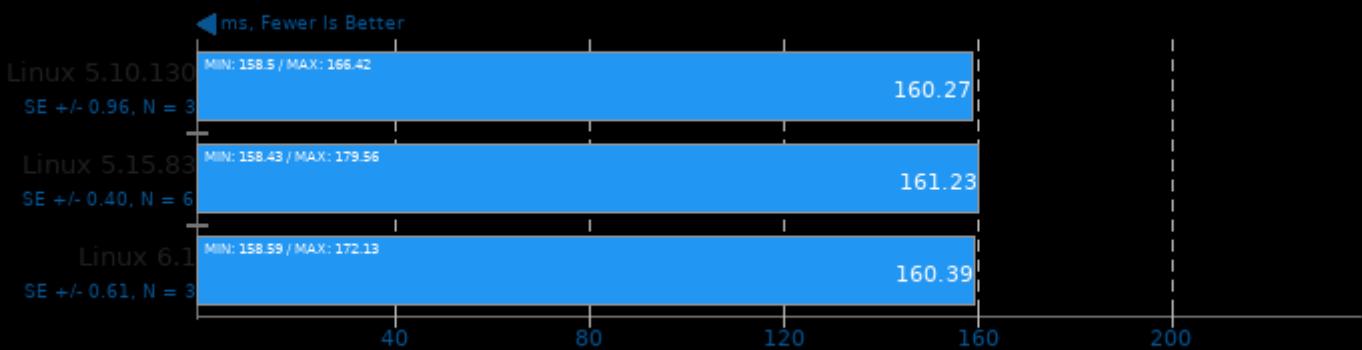
Target: CPU - Model: regnety_400m



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

NCNN 20220729

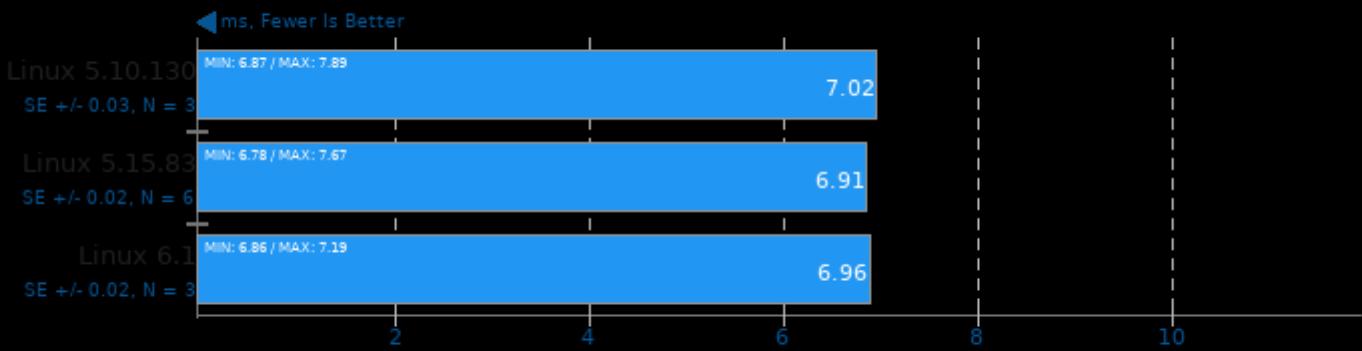
Target: CPU - Model: vision_transformer



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

NCNN 20220729

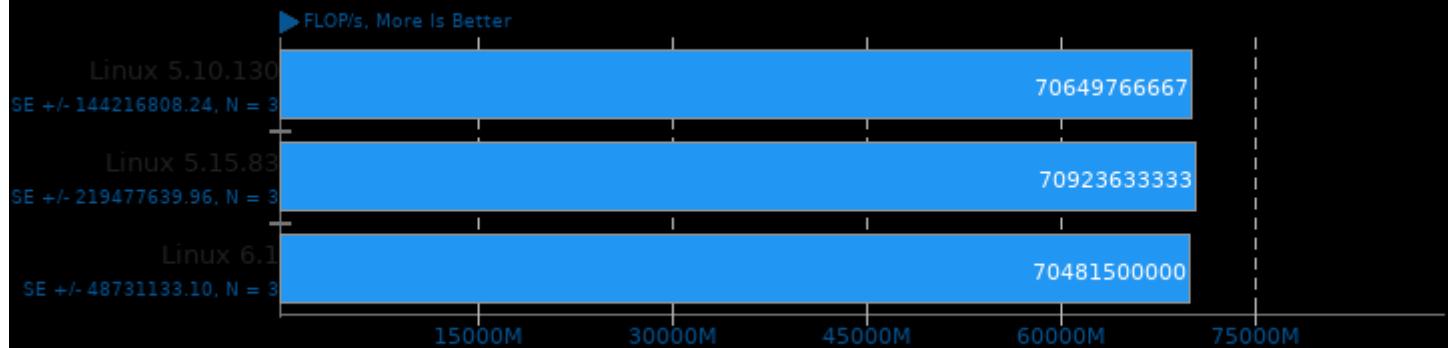
Target: CPU - Model: FastestDet



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

nekRS 22.0

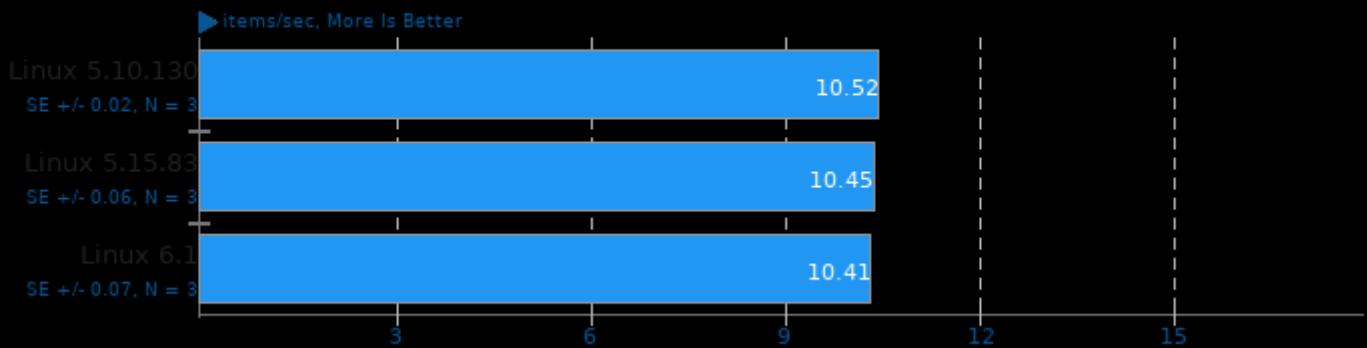
Input: TurboPipe Periodic



1. (CXX) g++ options: -fopenmp -O2 -march=native -mtune=native -ftree-vectorize -pthread -lmpi_cxx -lmpi

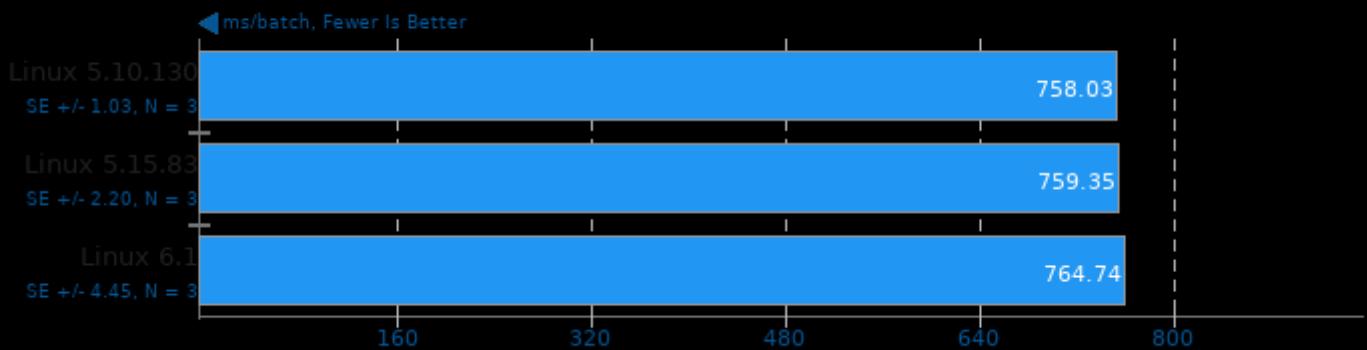
Neural Magic DeepSparse 1.1

Model: NLP Document Classification, oBERT base uncased on IMDB - Scenario: Asynchronous Multi-Stream



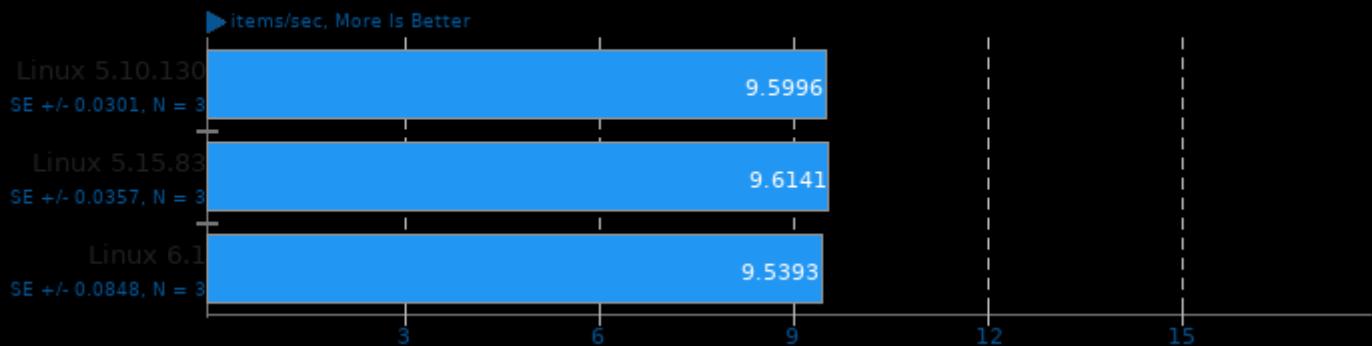
Neural Magic DeepSparse 1.1

Model: NLP Document Classification, oBERT base uncased on IMDB - Scenario: Asynchronous Multi-Stream



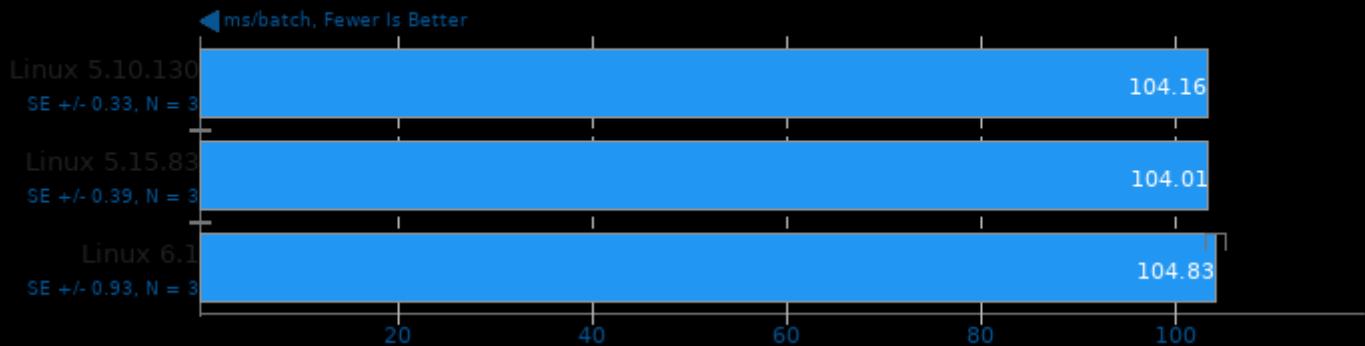
Neural Magic DeepSparse 1.1

Model: NLP Document Classification, oBERT base uncased on IMDB - Scenario: Synchronous Single-Stream



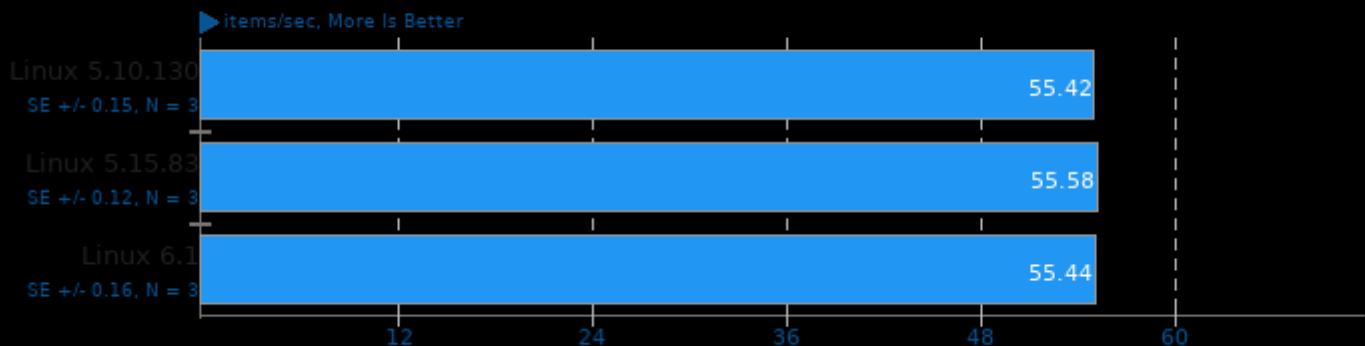
Neural Magic DeepSparse 1.1

Model: NLP Document Classification, oBERT base uncased on IMDB - Scenario: Synchronous Single-Stream



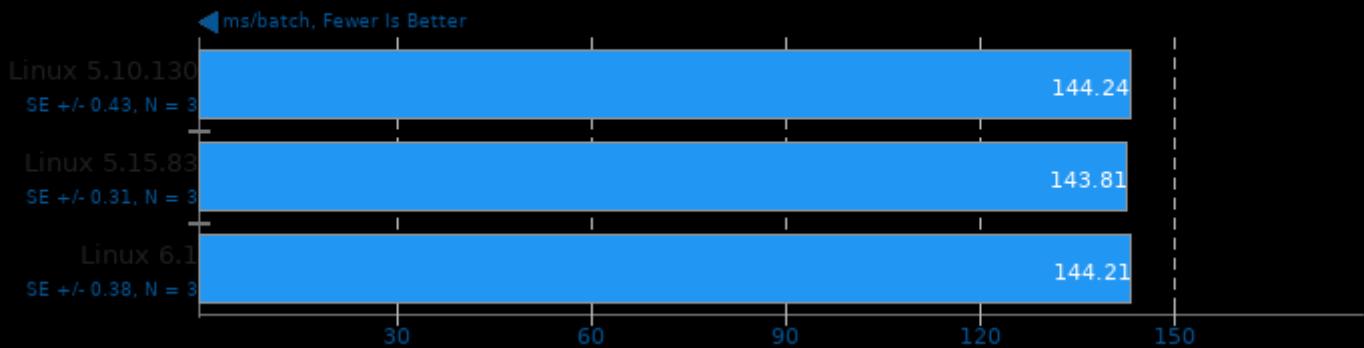
Neural Magic DeepSparse 1.1

Model: NLP Question Answering, BERT base uncased SQuAD 12layer Pruned90 - Scenario: Asynchronous Multi-Stream



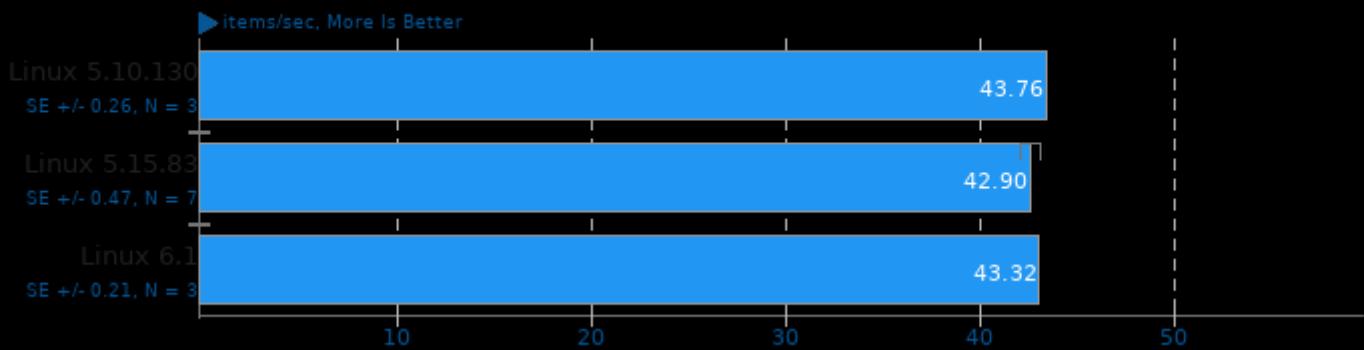
Neural Magic DeepSparse 1.1

Model: NLP Question Answering, BERT base uncased SQuAD 12layer Pruned90 - Scenario: Asynchronous Multi-Stream



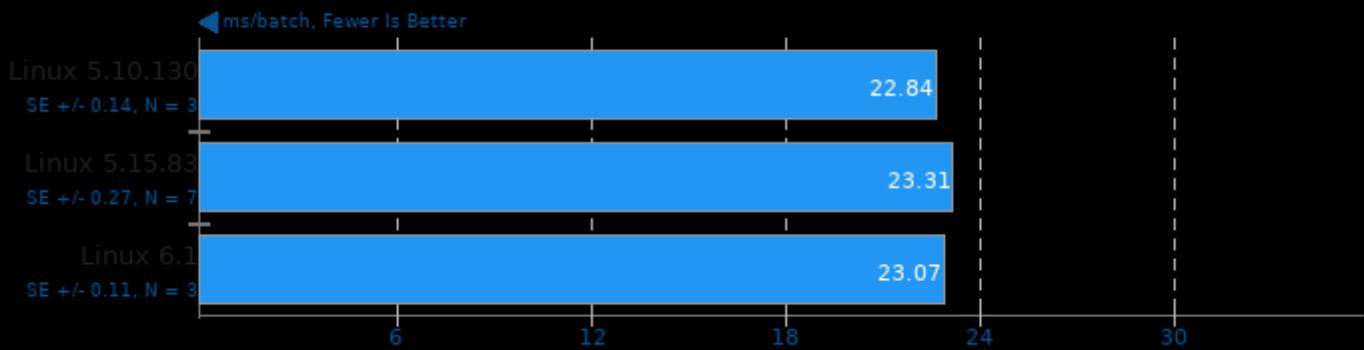
Neural Magic DeepSparse 1.1

Model: NLP Question Answering, BERT base uncased SQuAD 12layer Pruned90 - Scenario: Synchronous Single-Stream



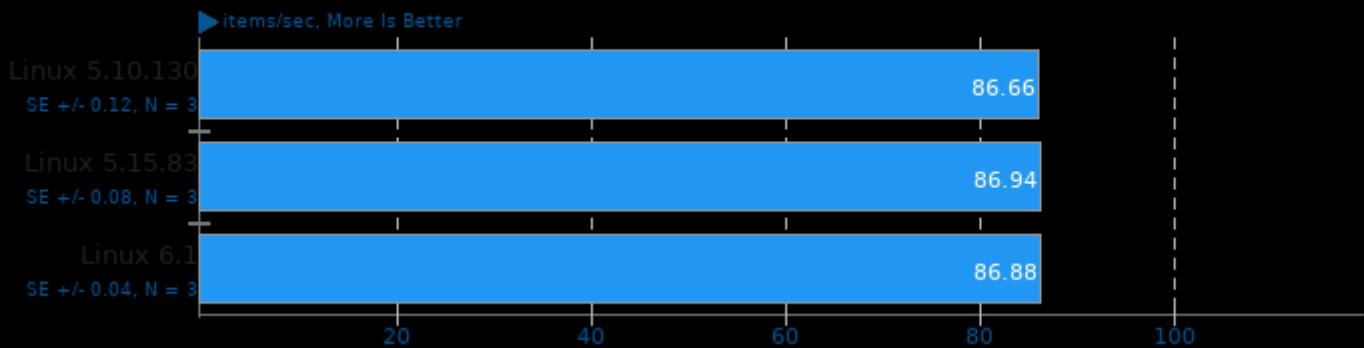
Neural Magic DeepSparse 1.1

Model: NLP Question Answering, BERT base uncased SQuAD 12layer Pruned90 - Scenario: Synchronous Single-Stream



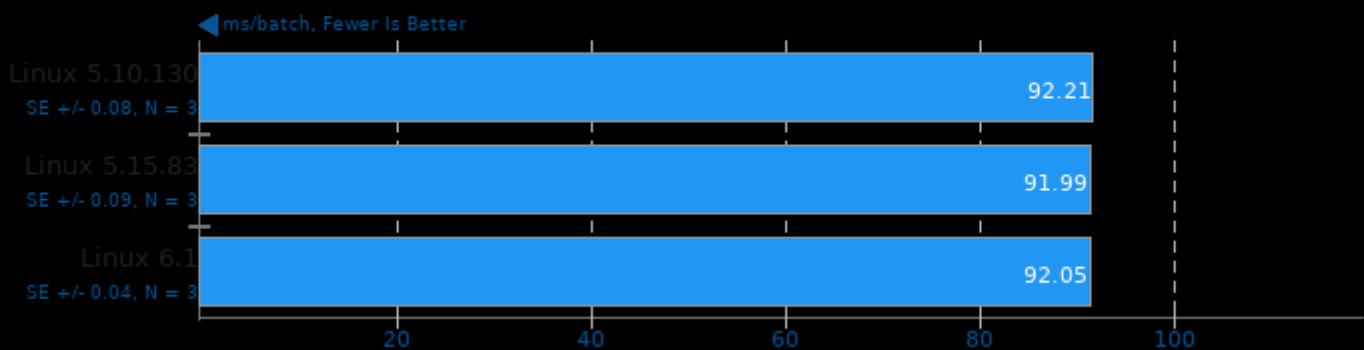
Neural Magic DeepSparse 1.1

Model: CV Detection,YOLOv5s COCO - Scenario: Asynchronous Multi-Stream



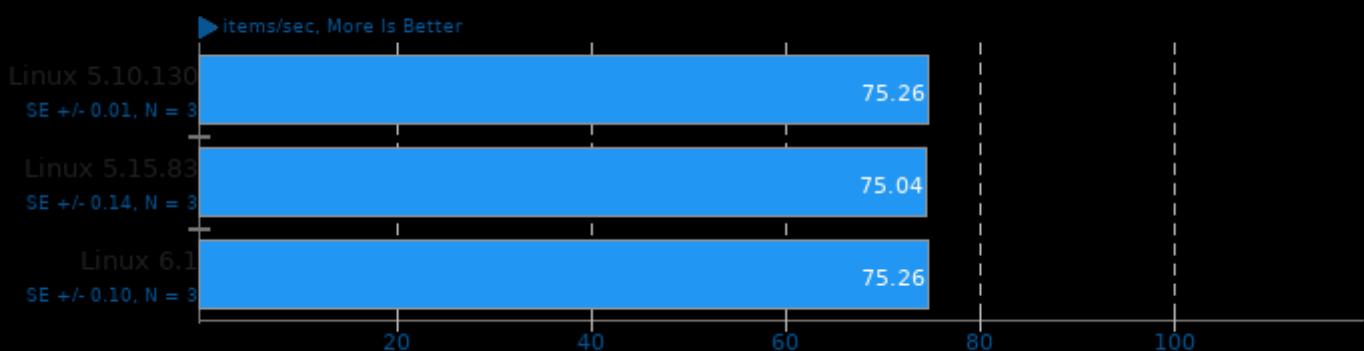
Neural Magic DeepSparse 1.1

Model: CV Detection,YOLOv5s COCO - Scenario: Asynchronous Multi-Stream



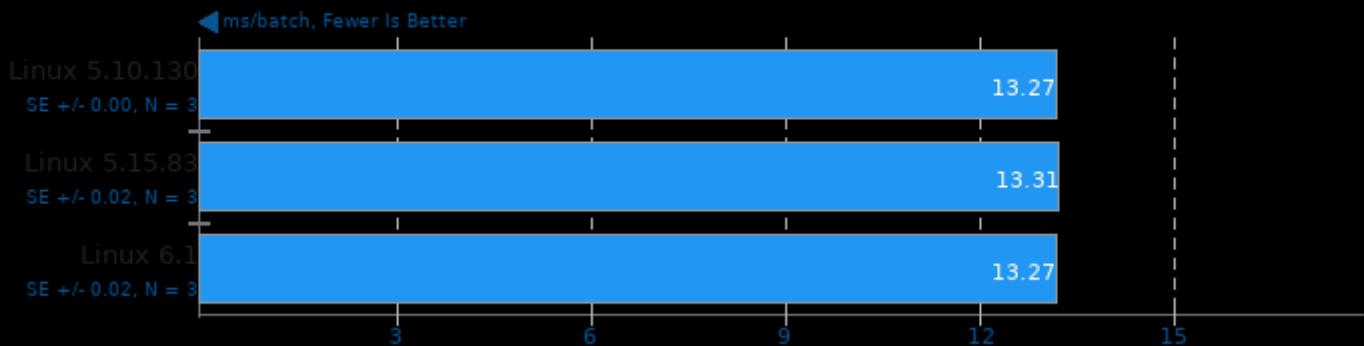
Neural Magic DeepSparse 1.1

Model: CV Detection,YOLOv5s COCO - Scenario: Synchronous Single-Stream



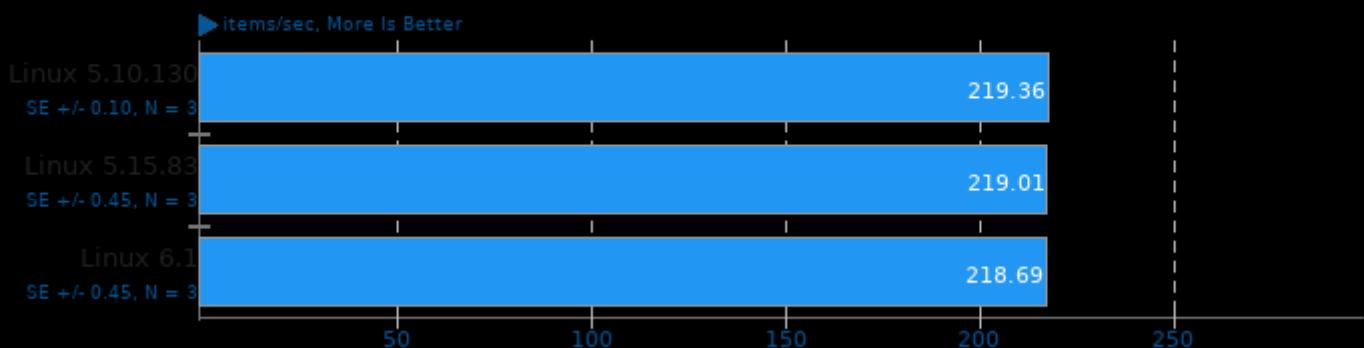
Neural Magic DeepSparse 1.1

Model: CV Detection, YOLOv5s COCO - Scenario: Synchronous Single-Stream



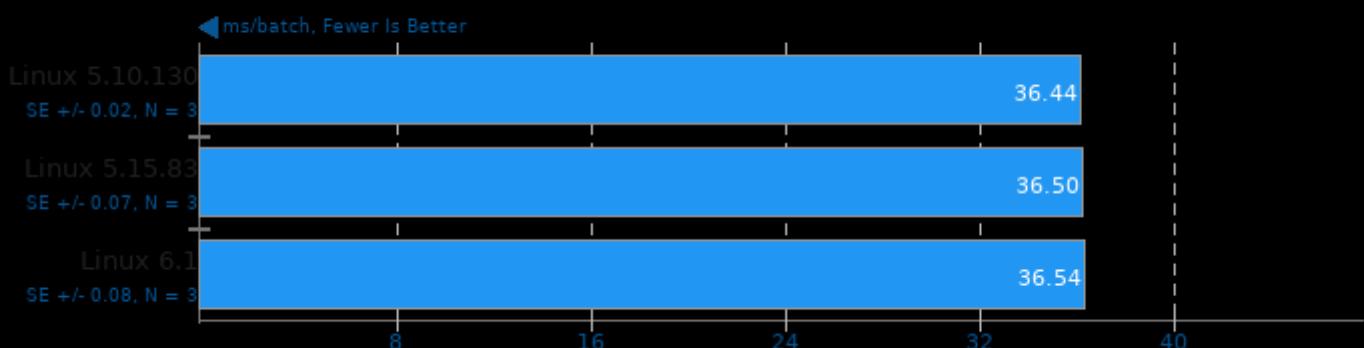
Neural Magic DeepSparse 1.1

Model: CV Classification, ResNet-50 ImageNet - Scenario: Asynchronous Multi-Stream



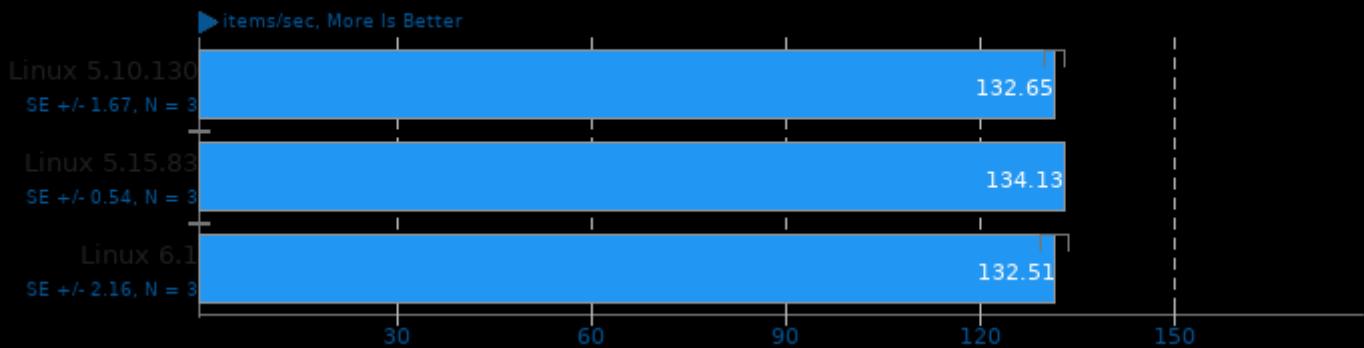
Neural Magic DeepSparse 1.1

Model: CV Classification, ResNet-50 ImageNet - Scenario: Asynchronous Multi-Stream



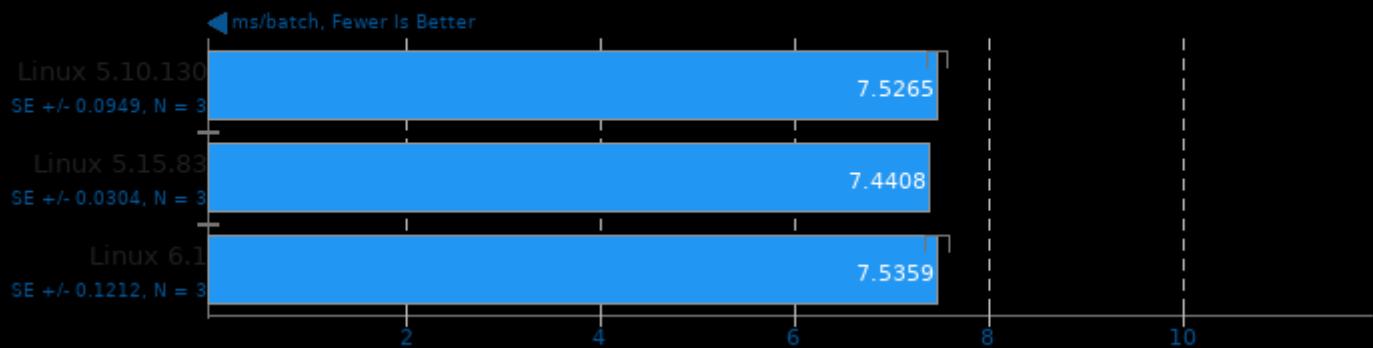
Neural Magic DeepSparse 1.1

Model: CV Classification, ResNet-50 ImageNet - Scenario: Synchronous Single-Stream



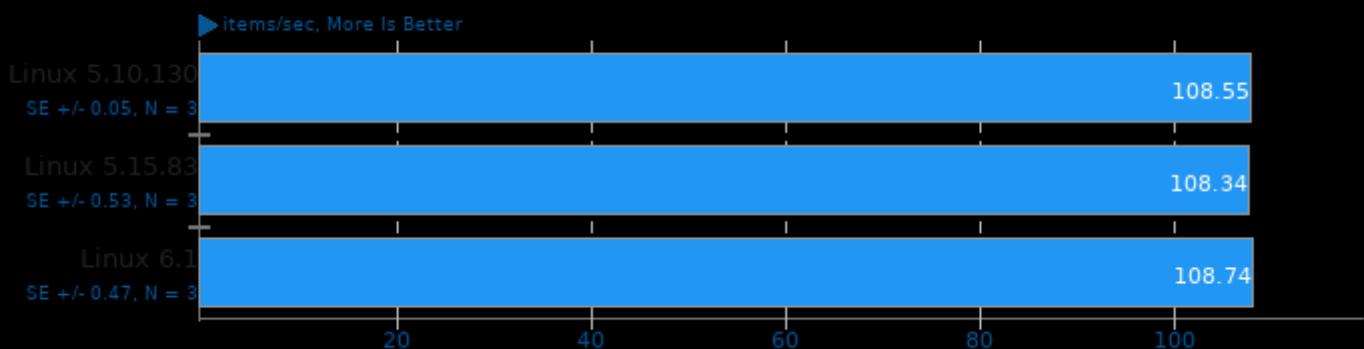
Neural Magic DeepSparse 1.1

Model: CV Classification, ResNet-50 ImageNet - Scenario: Synchronous Single-Stream



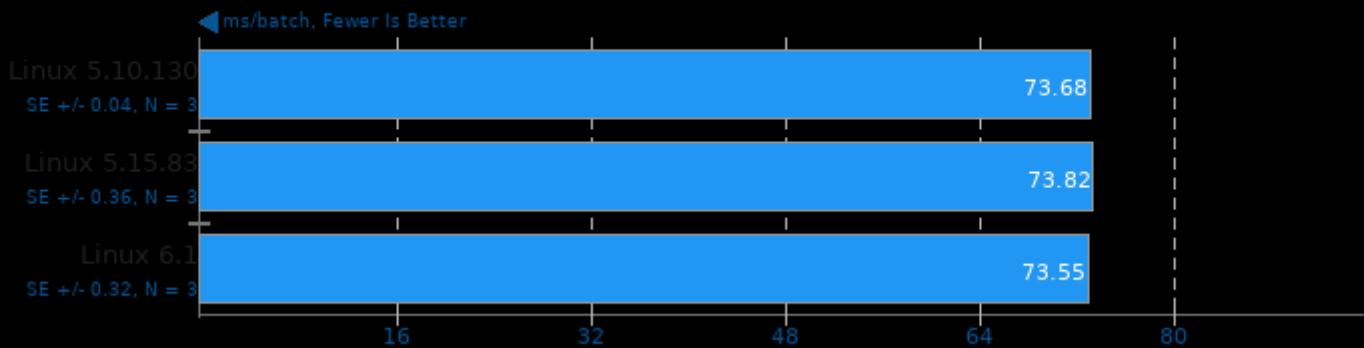
Neural Magic DeepSparse 1.1

Model: NLP Text Classification, DistilBERT mnli - Scenario: Asynchronous Multi-Stream



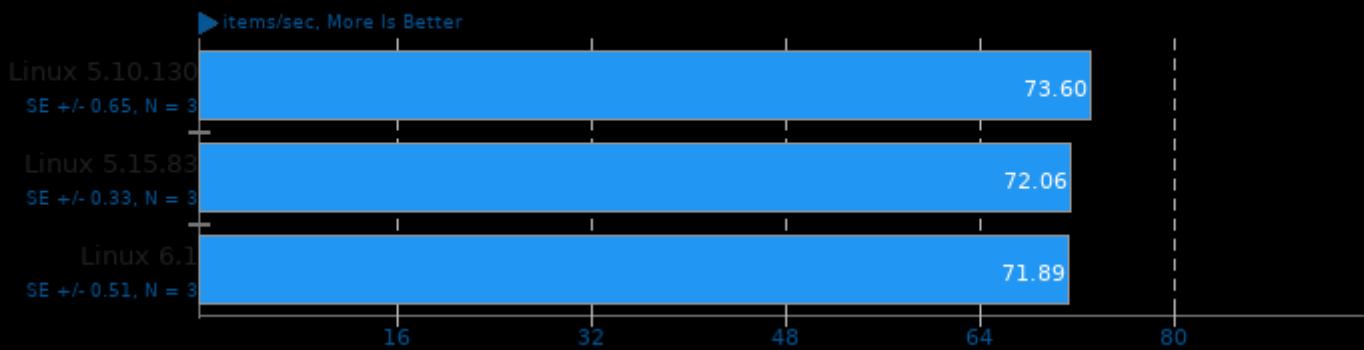
Neural Magic DeepSparse 1.1

Model: NLP Text Classification, DistilBERT mnli - Scenario: Asynchronous Multi-Stream



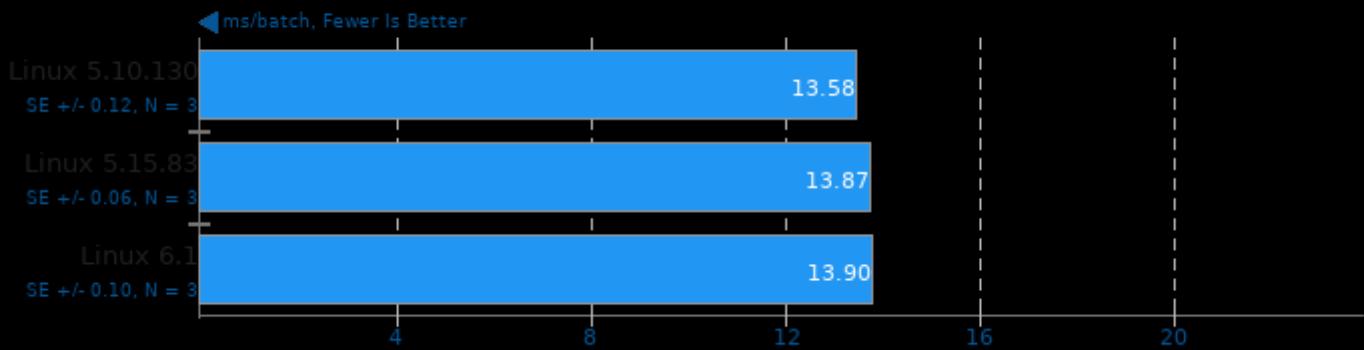
Neural Magic DeepSparse 1.1

Model: NLP Text Classification, DistilBERT mnli - Scenario: Synchronous Single-Stream



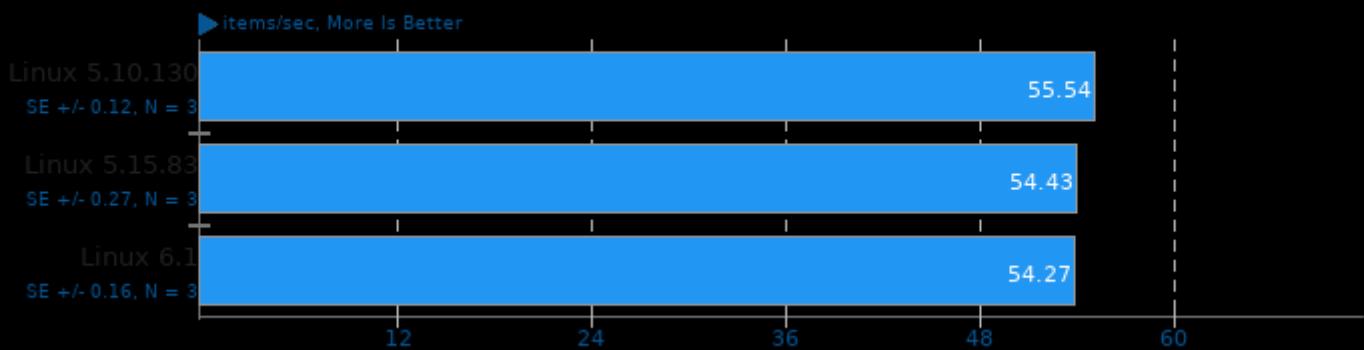
Neural Magic DeepSparse 1.1

Model: NLP Text Classification, DistilBERT mnli - Scenario: Synchronous Single-Stream



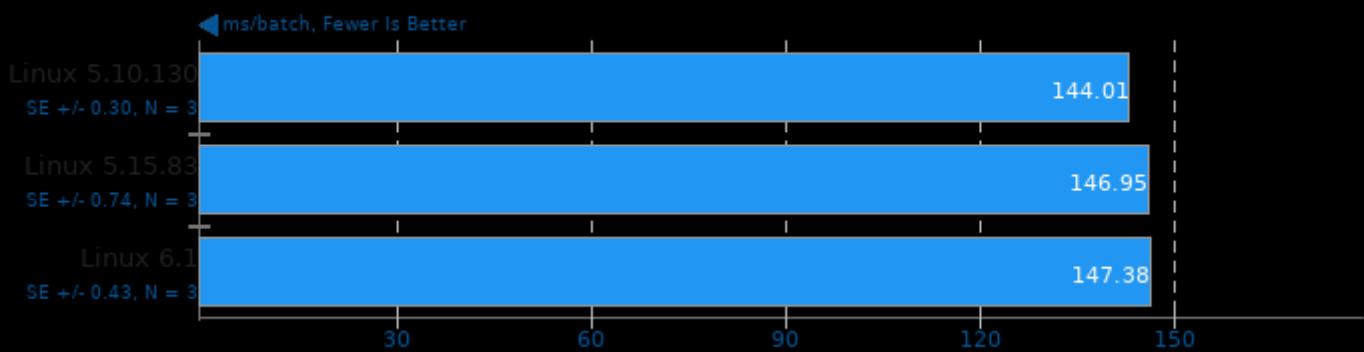
Neural Magic DeepSparse 1.1

Model: NLP Text Classification, BERT base uncased SST2 - Scenario: Asynchronous Multi-Stream



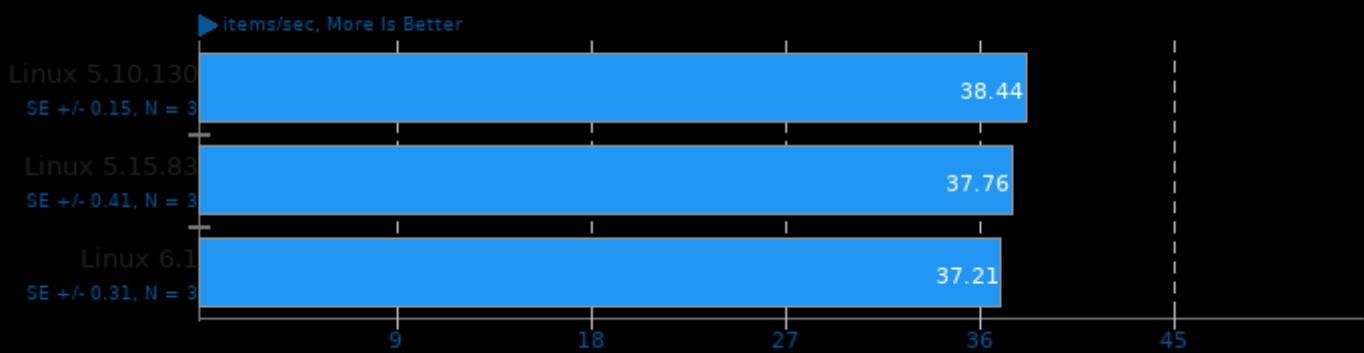
Neural Magic DeepSparse 1.1

Model: NLP Text Classification, BERT base uncased SST2 - Scenario: Asynchronous Multi-Stream



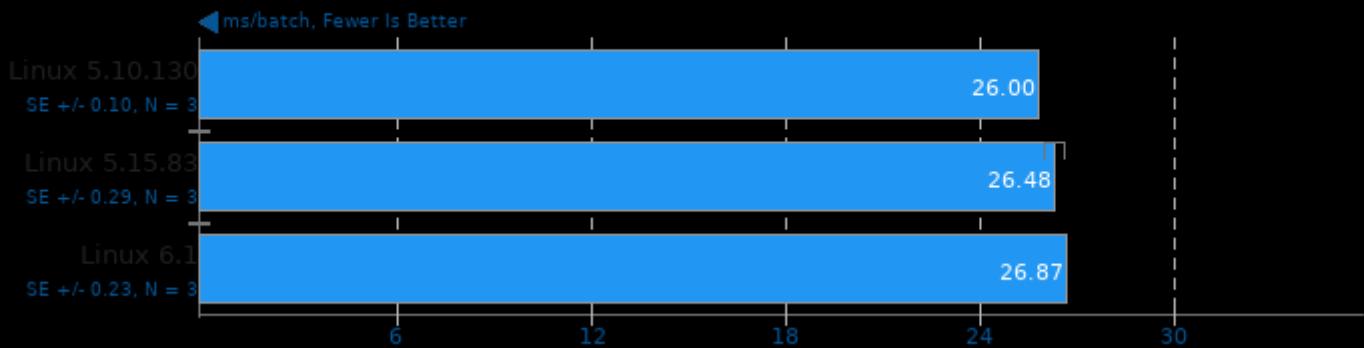
Neural Magic DeepSparse 1.1

Model: NLP Text Classification, BERT base uncased SST2 - Scenario: Synchronous Single-Stream



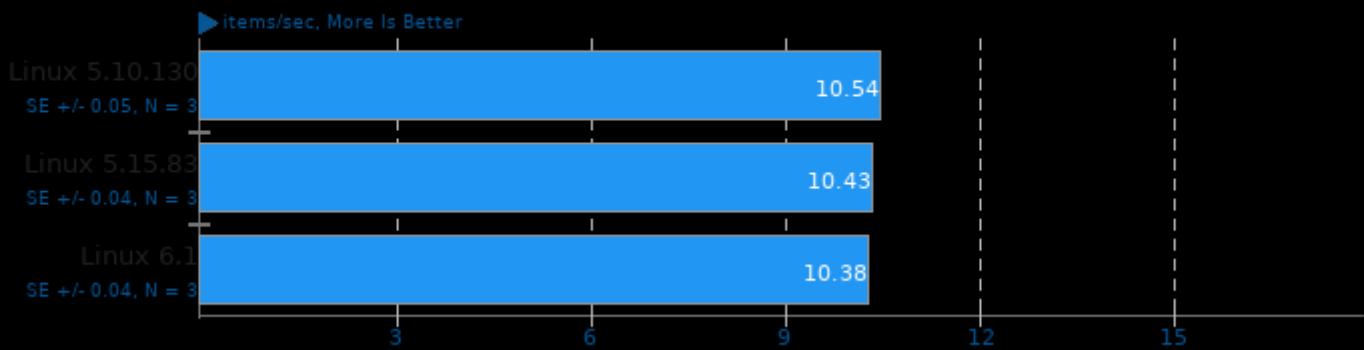
Neural Magic DeepSparse 1.1

Model: NLP Text Classification, BERT base uncased SST2 - Scenario: Synchronous Single-Stream



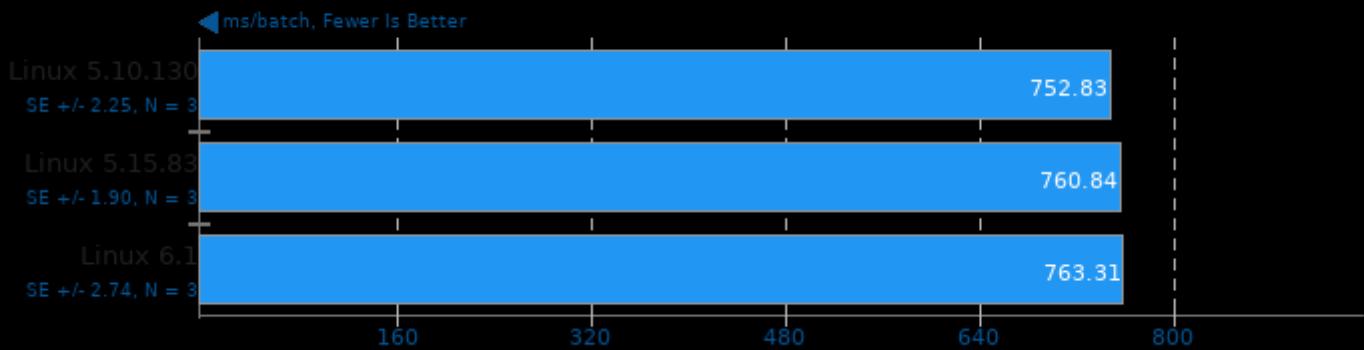
Neural Magic DeepSparse 1.1

Model: NLP Token Classification, BERT base uncased conll2003 - Scenario: Asynchronous Multi-Stream



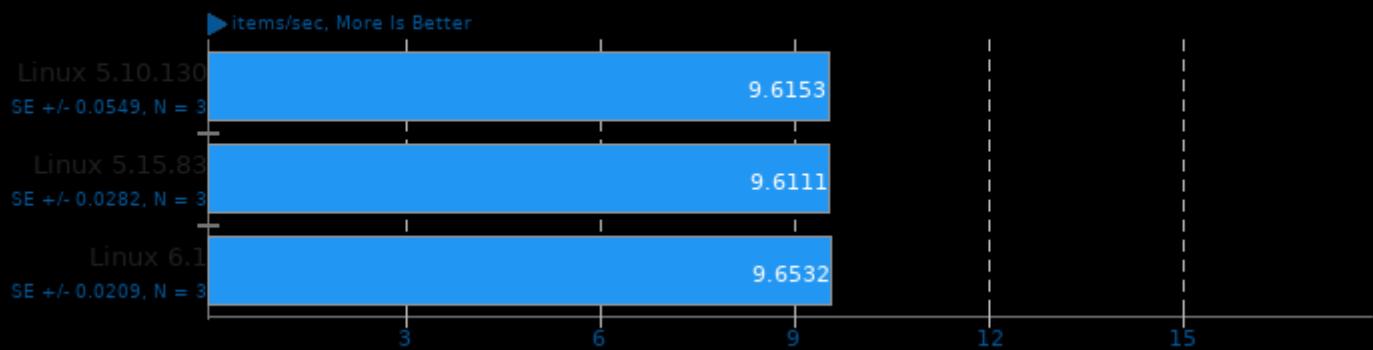
Neural Magic DeepSparse 1.1

Model: NLP Token Classification, BERT base uncased conll2003 - Scenario: Asynchronous Multi-Stream



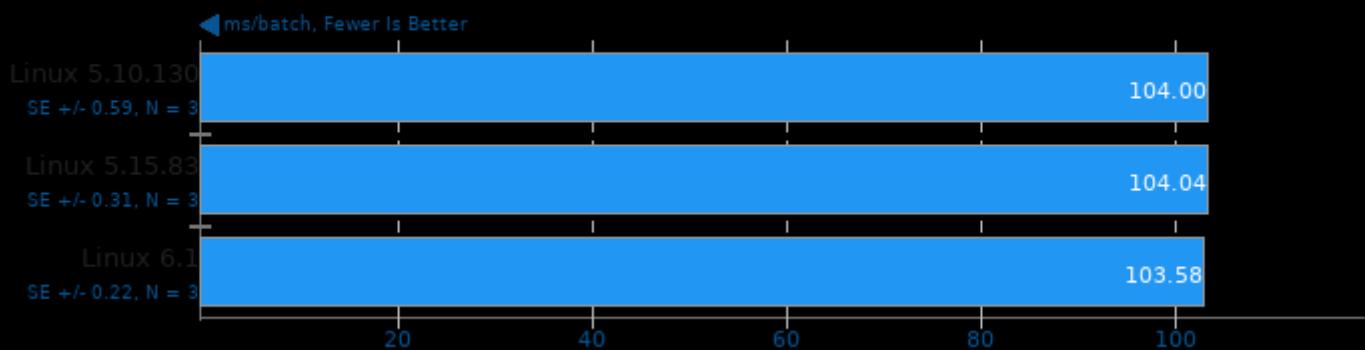
Neural Magic DeepSparse 1.1

Model: NLP Token Classification, BERT base uncased conll2003 - Scenario: Synchronous Single-Stream



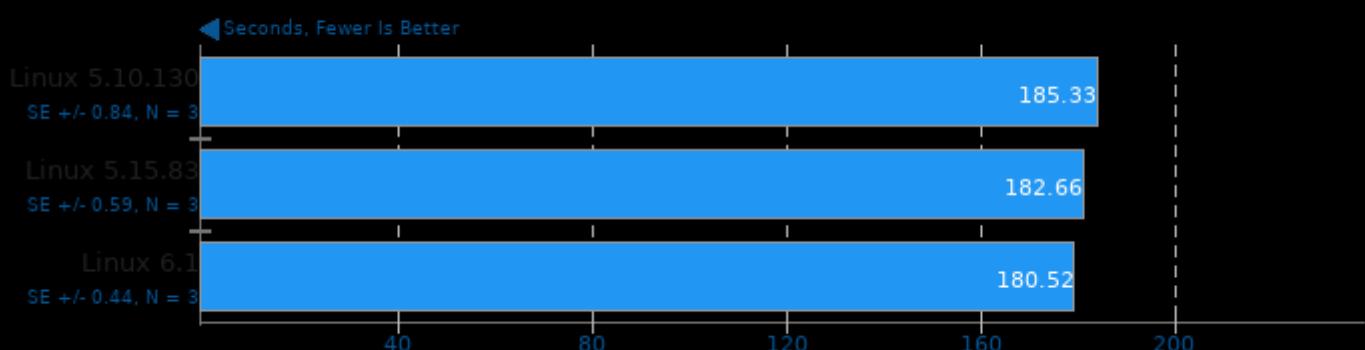
Neural Magic DeepSparse 1.1

Model: NLP Token Classification, BERT base uncased conll2003 - Scenario: Synchronous Single-Stream



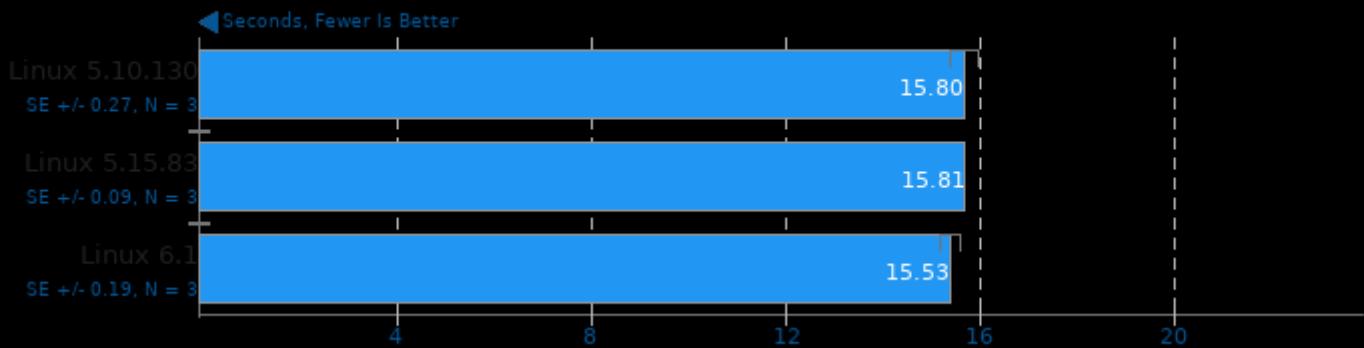
Numenata Anomaly Benchmark 1.1

Detector: KNN CAD



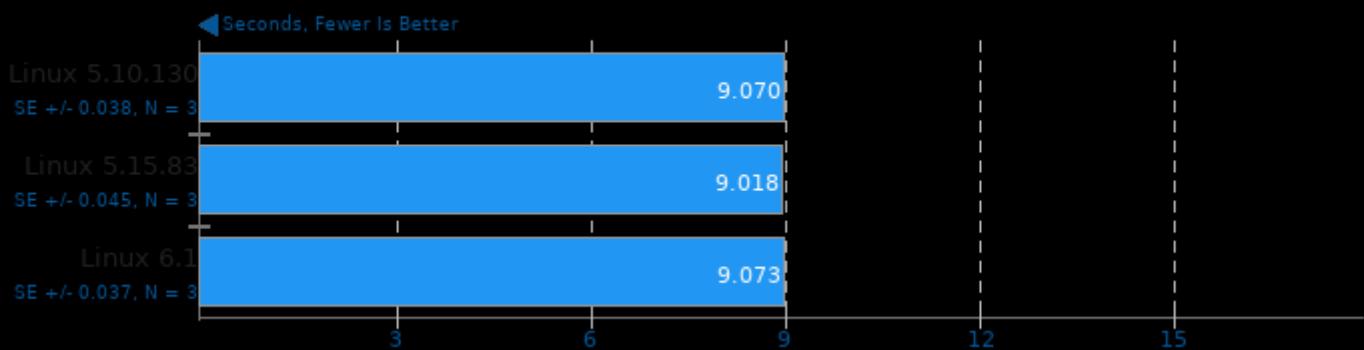
Numenta Anomaly Benchmark 1.1

Detector: Relative Entropy



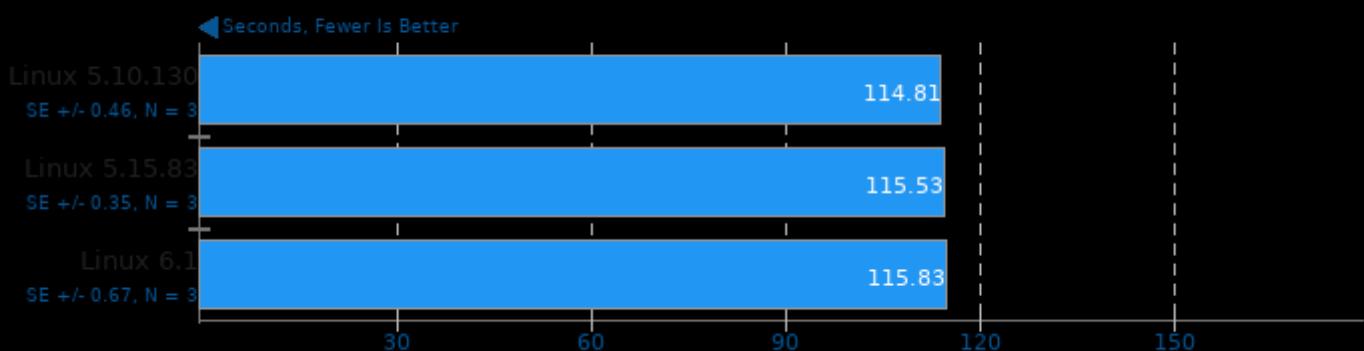
Numenta Anomaly Benchmark 1.1

Detector: Windowed Gaussian



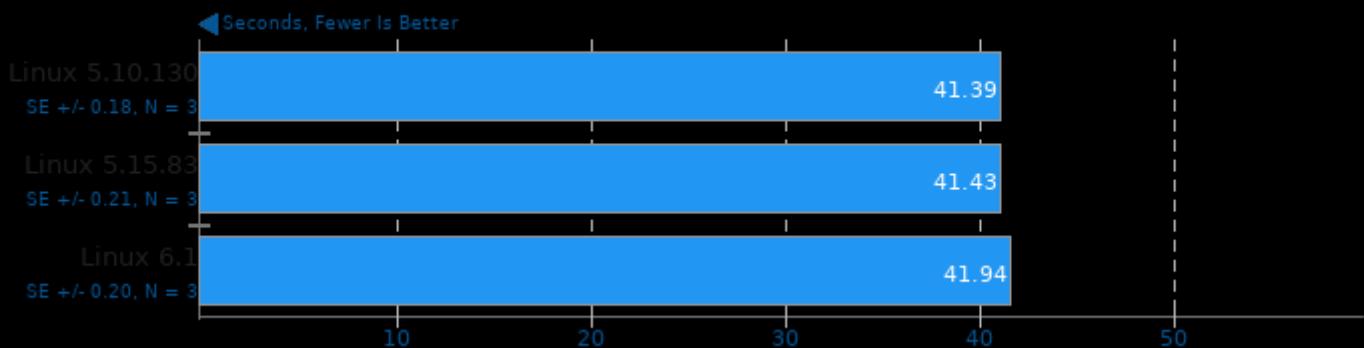
Numenta Anomaly Benchmark 1.1

Detector: Earthgecko Skyline



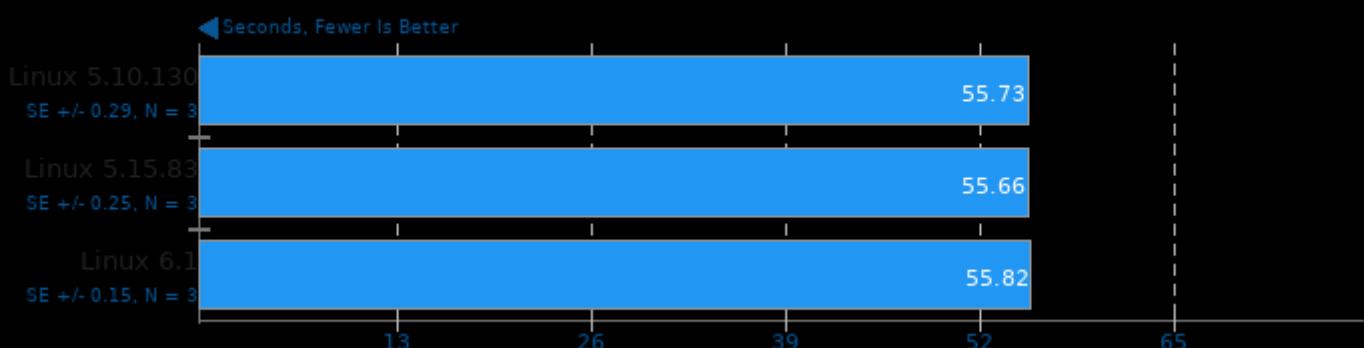
Numenta Anomaly Benchmark 1.1

Detector: Bayesian Changepoint



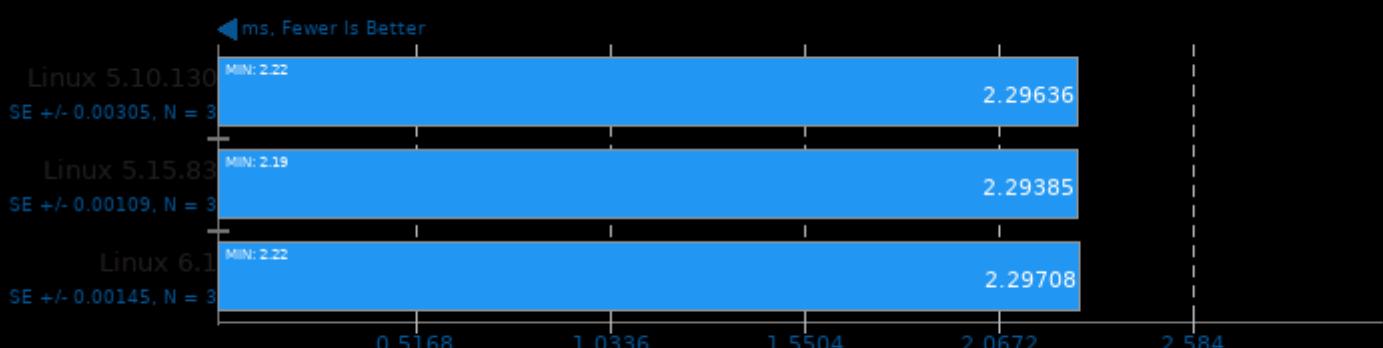
Numenta Anomaly Benchmark 1.1

Detector: Contextual Anomaly Detector OSE



oneDNN 2.7

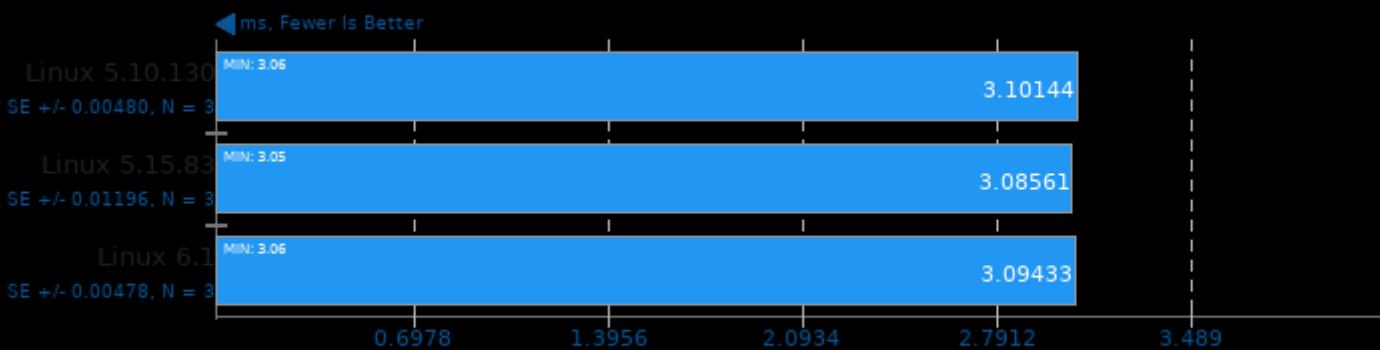
Harness: IP Shapes 1D - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.7

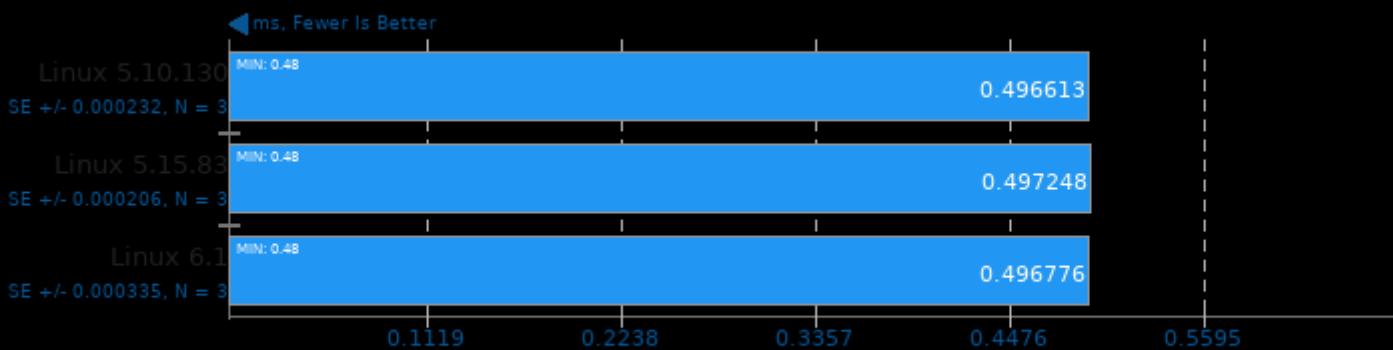
Harness: IP Shapes 3D - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.7

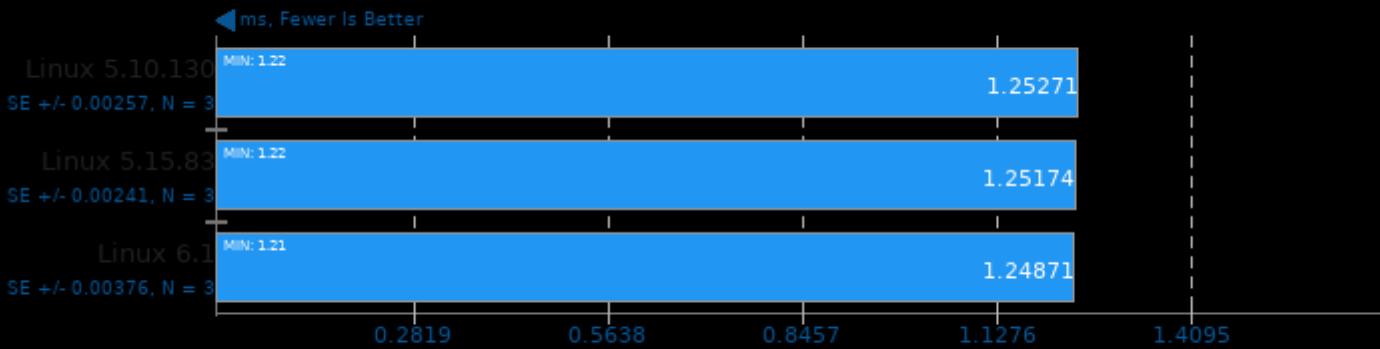
Harness: IP Shapes 1D - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.7

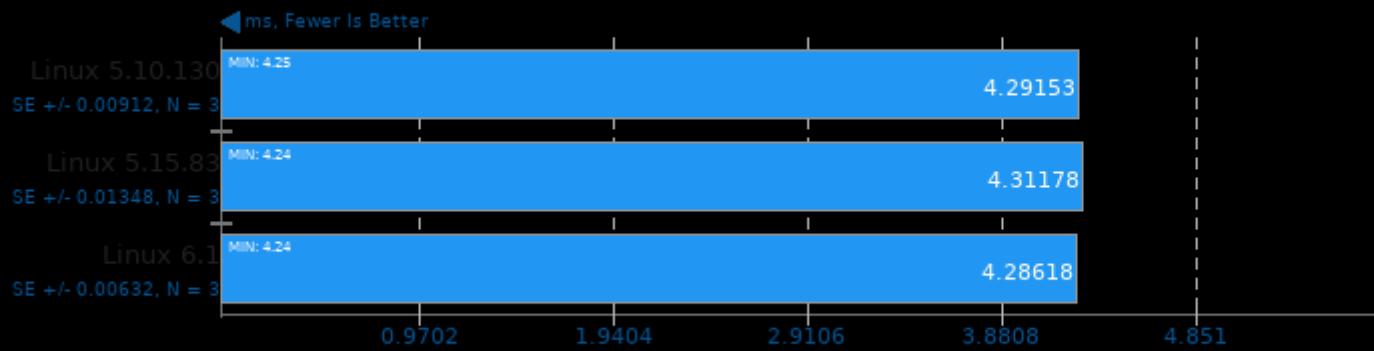
Harness: IP Shapes 3D - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.7

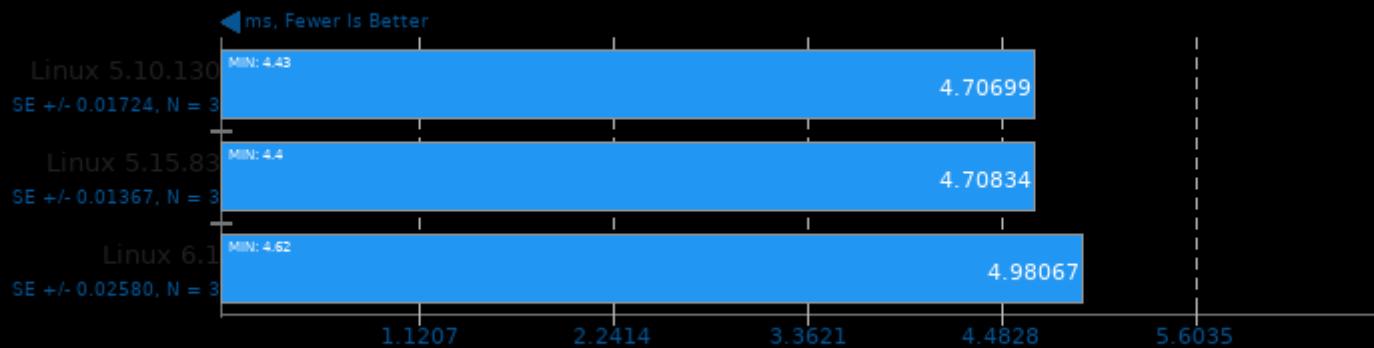
Harness: Convolution Batch Shapes Auto - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.7

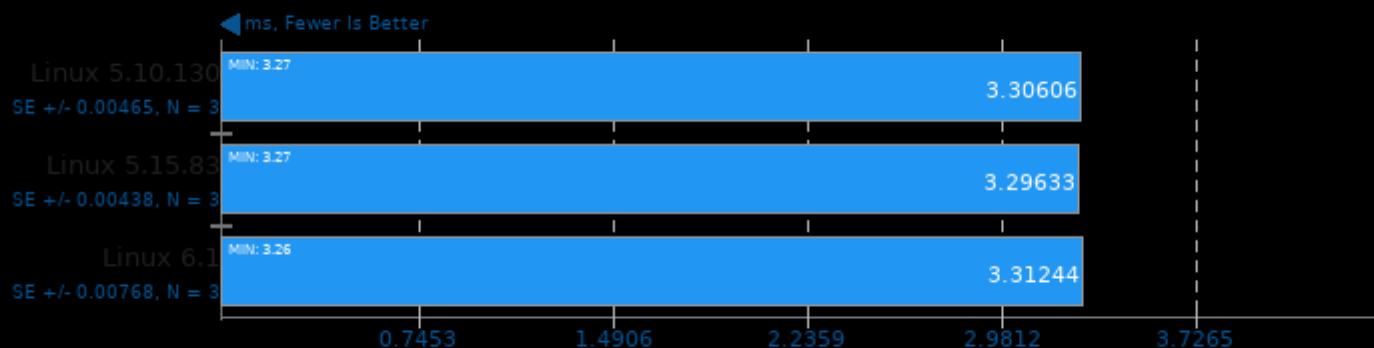
Harness: Deconvolution Batch shapes_1d - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.7

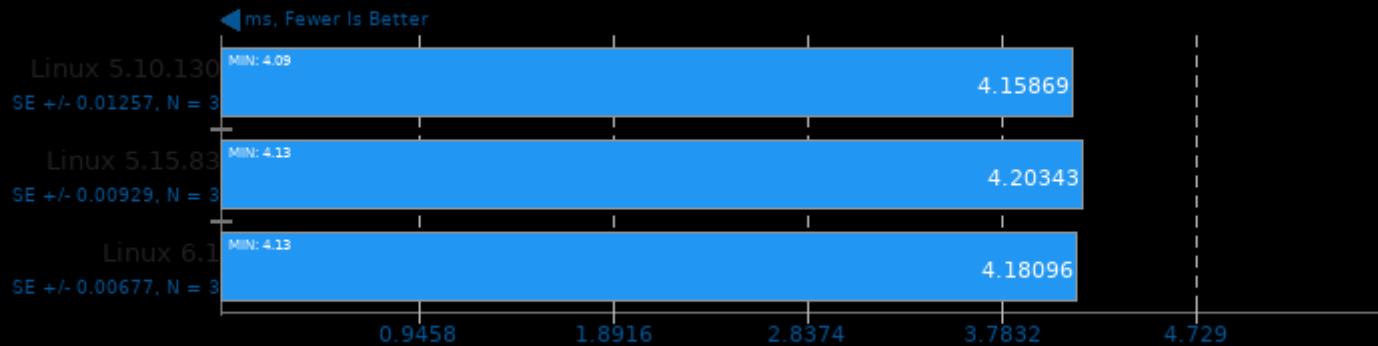
Harness: Deconvolution Batch shapes_3d - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.7

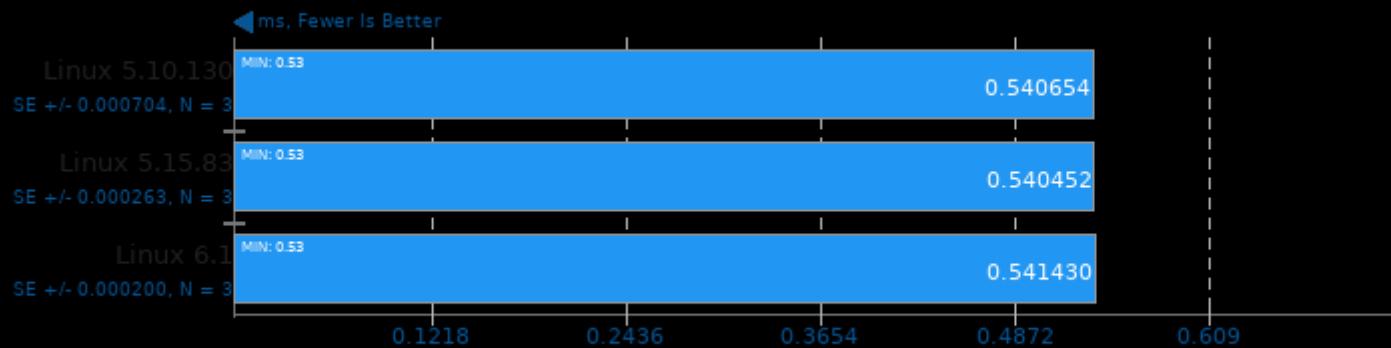
Harness: Convolution Batch Shapes Auto - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.7

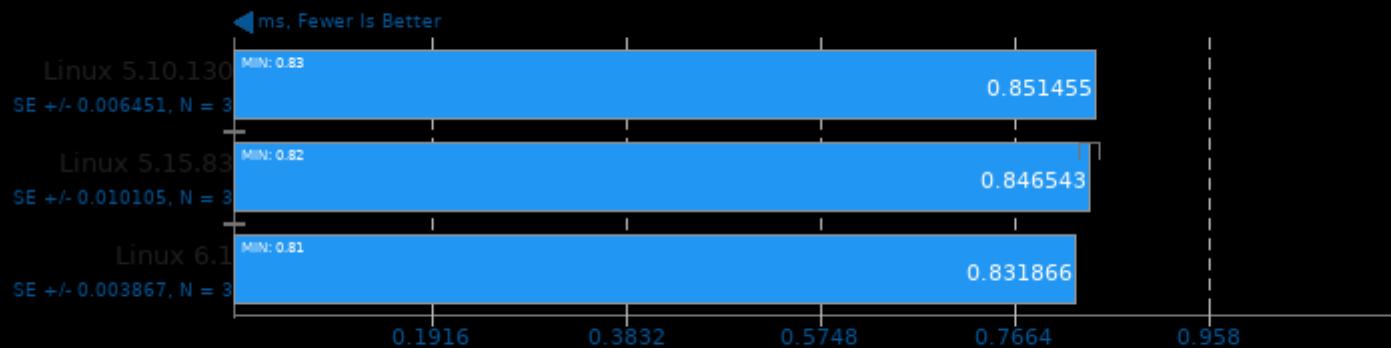
Harness: Deconvolution Batch shapes_1d - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.7

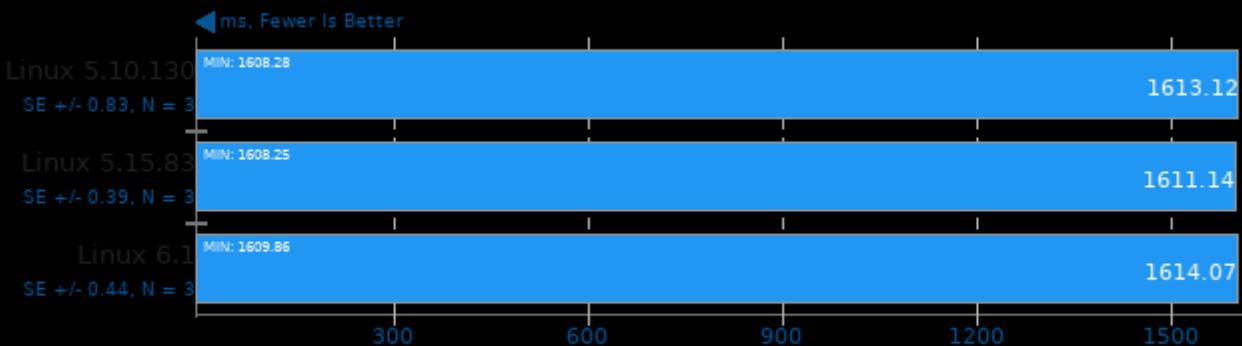
Harness: Deconvolution Batch shapes_3d - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.7

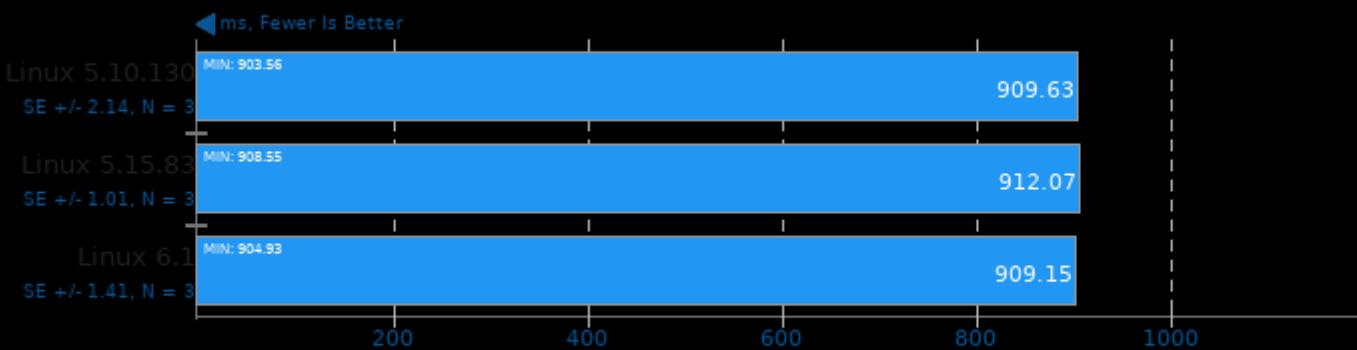
Harness: Recurrent Neural Network Training - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.7

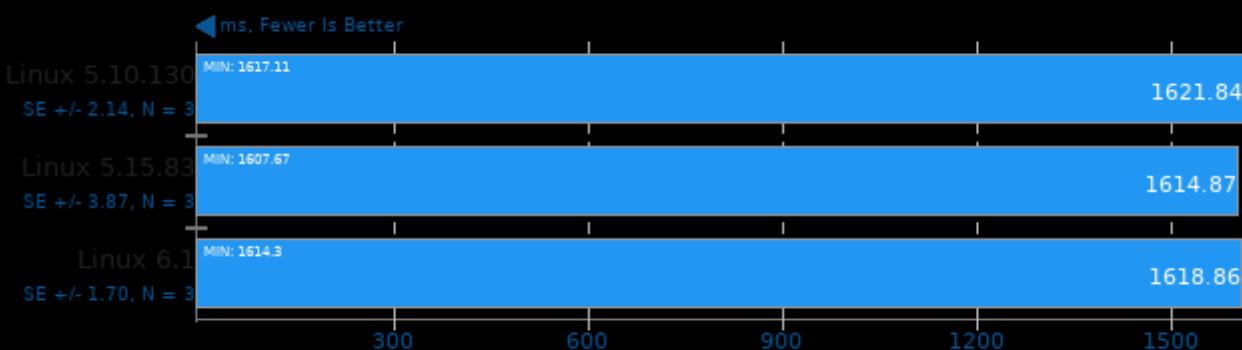
Harness: Recurrent Neural Network Inference - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.7

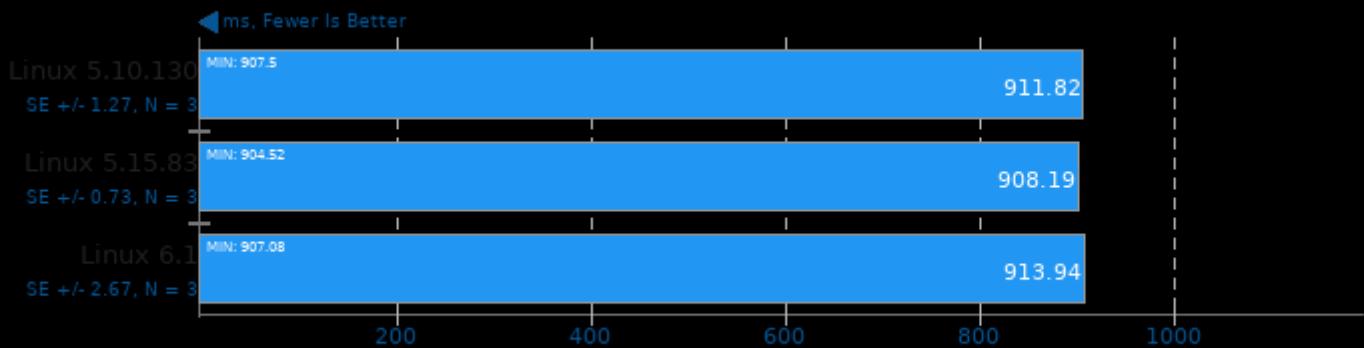
Harness: Recurrent Neural Network Training - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.7

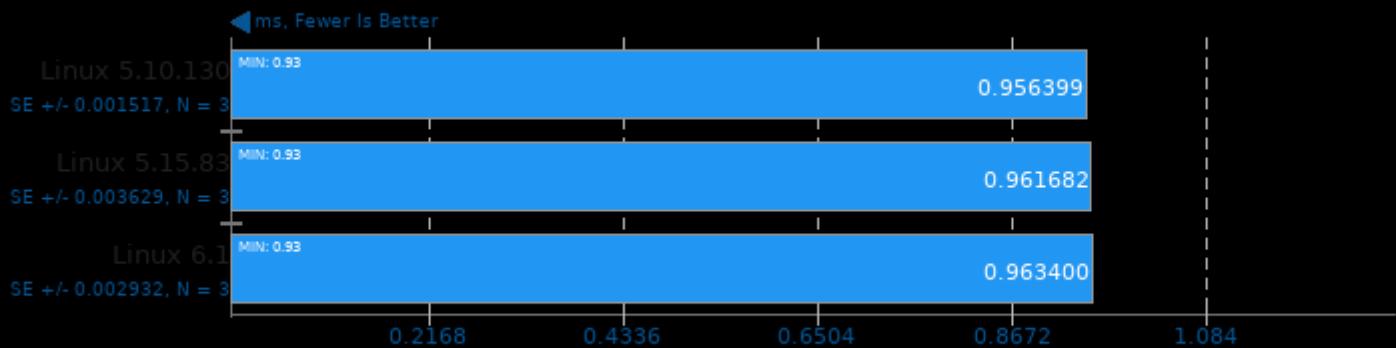
Harness: Recurrent Neural Network Inference - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.7

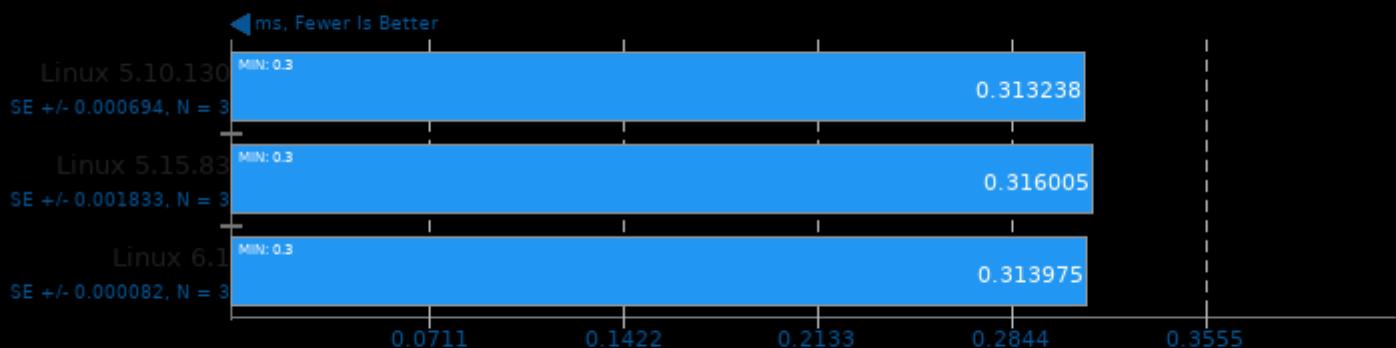
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

oneDNN 2.7

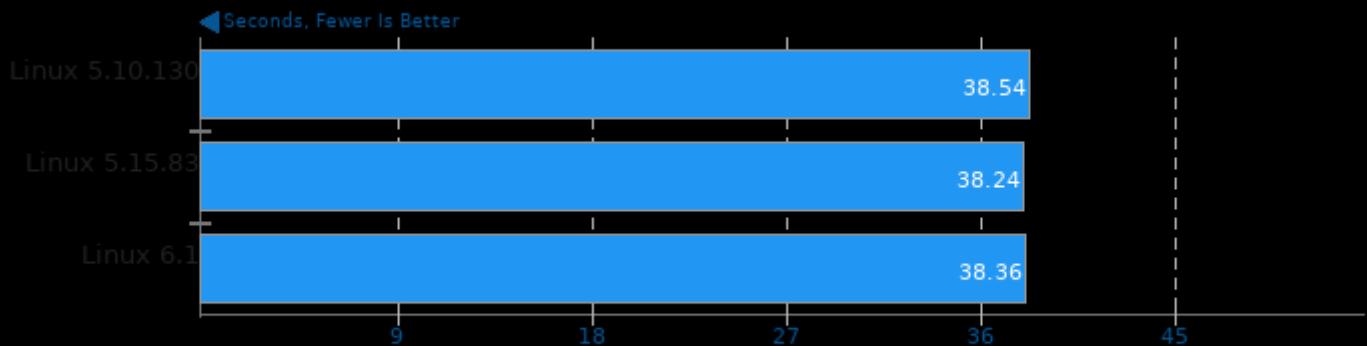
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

OpenFOAM 10

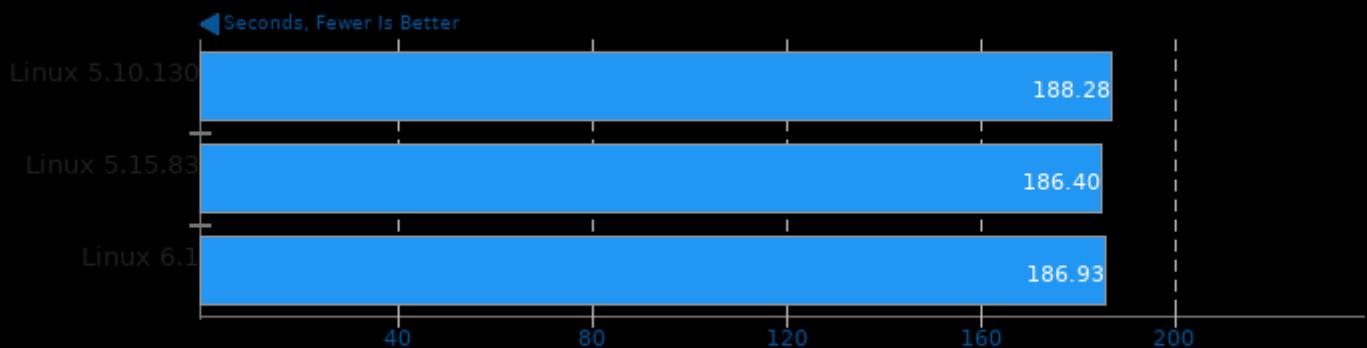
Input: drivaerFastback, Small Mesh Size - Mesh Time



1. (CXX) g++ options: -std=c++14 -m64 -O3 -ftemplate-depth=100 -fPIC -fuse-lld=bfd -Xlinker --add-needed --no-as-needed -ldynamicMesh -lgenericPatch

OpenFOAM 10

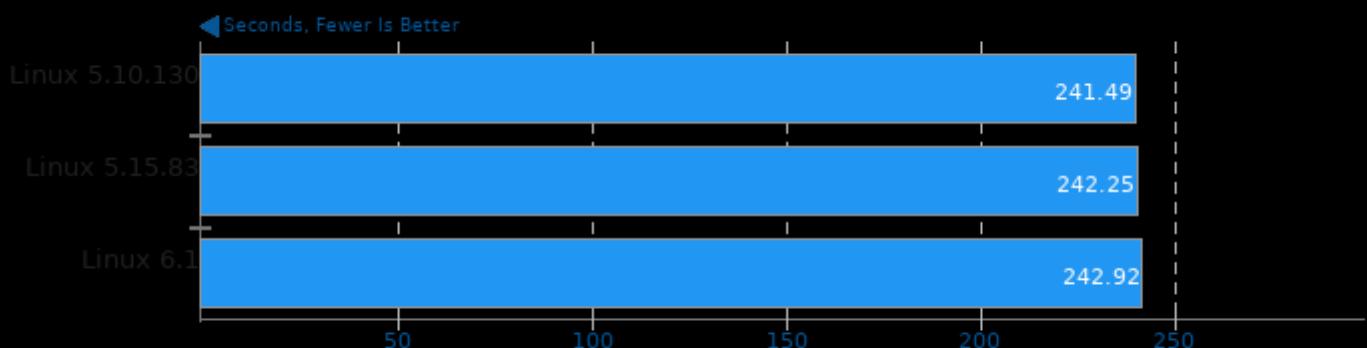
Input: drivaerFastback, Small Mesh Size - Execution Time



1. (CXX) g++ options: -std=c++14 -m64 -O3 -ftemplate-depth=100 -fPIC -fuse-lld=bfd -Xlinker --add-needed --no-as-needed -ldynamicMesh -lgenericPatch

OpenFOAM 10

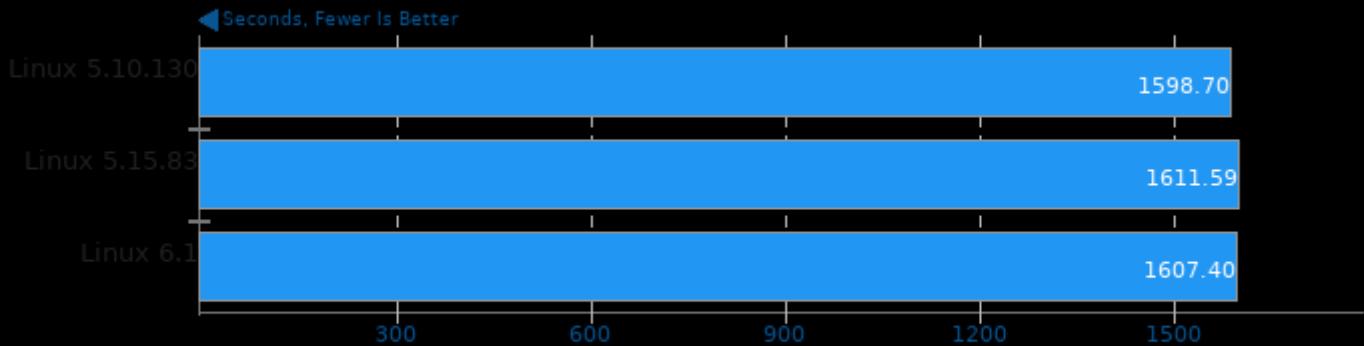
Input: drivaerFastback, Medium Mesh Size - Mesh Time



1. (CXX) g++ options: -std=c++14 -m64 -O3 -ftemplate-depth=100 -fPIC -fuse-lld=bfd -Xlinker --add-needed --no-as-needed -ldynamicMesh -lgenericPatch

OpenFOAM 10

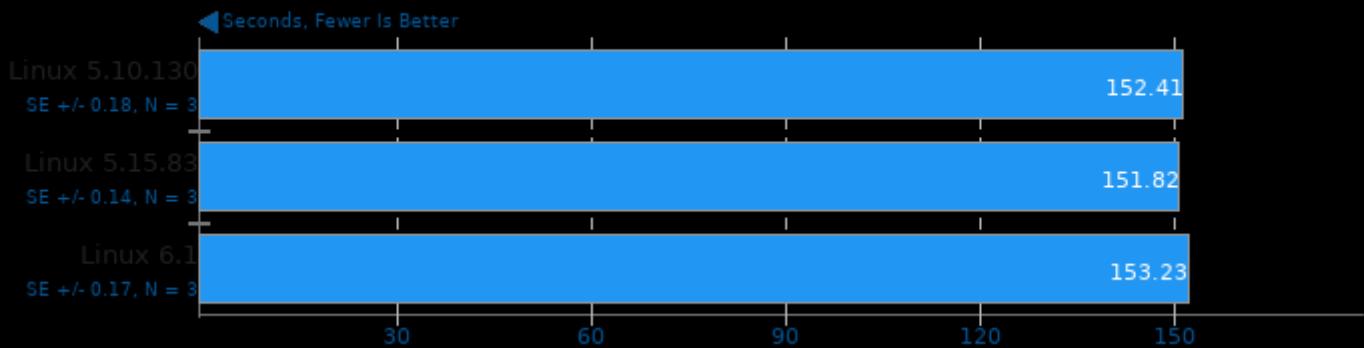
Input: drivaerFastback, Medium Mesh Size - Execution Time



1. (CXX) g++ options: -std=c++14 -m64 -O3 -ftemplate-depth=100 -fPIC -fno-fuse-linker -fno-bfd -fno-linker -fno-add-needed -fno-no-as-needed -fdynamicMesh -fgenericPatch

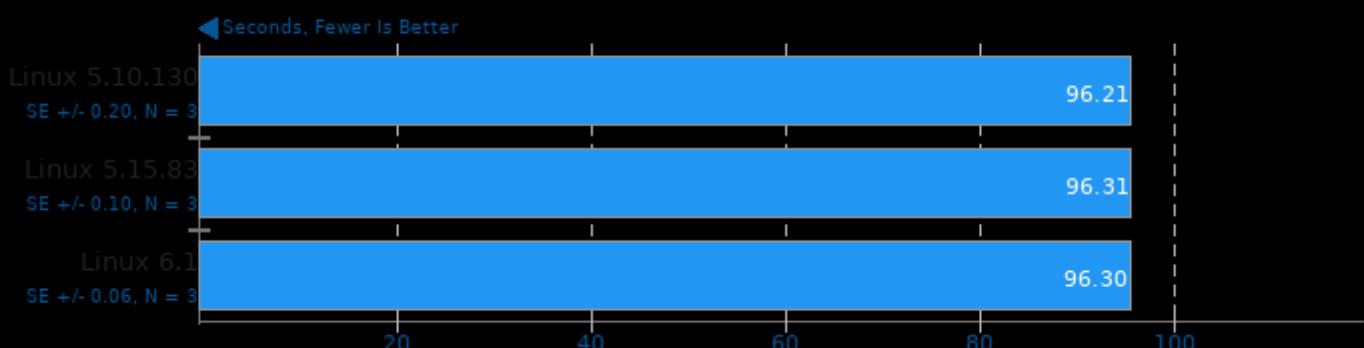
OpenRadioss 2022.10.13

Model: Bumper Beam



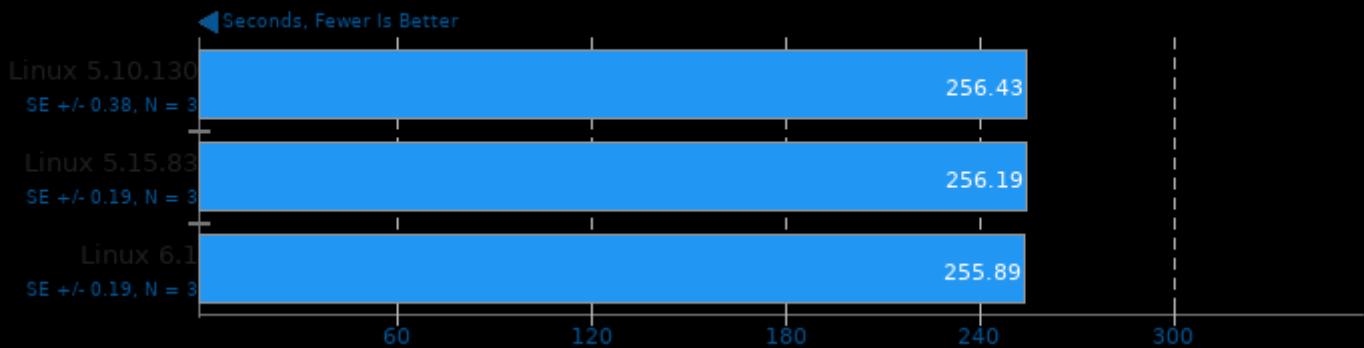
OpenRadioss 2022.10.13

Model: Cell Phone Drop Test



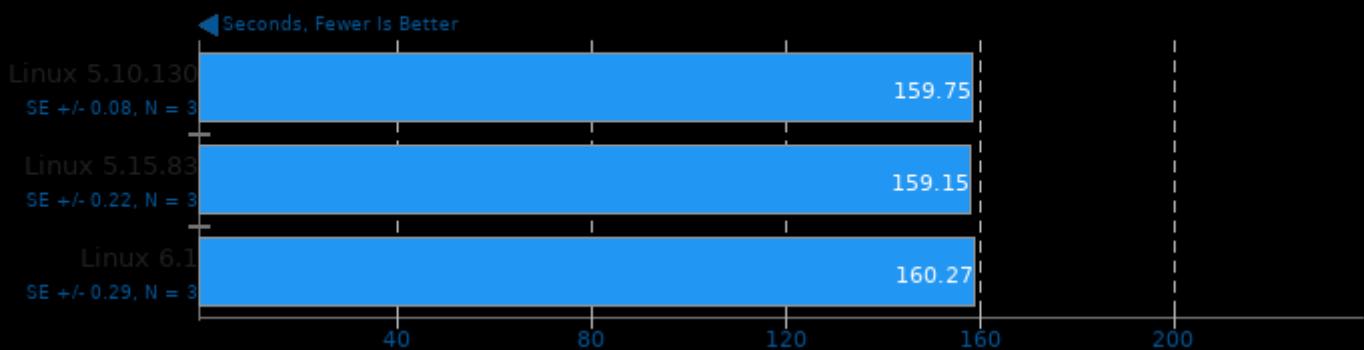
OpenRadioss 2022.10.13

Model: Bird Strike on Windshield



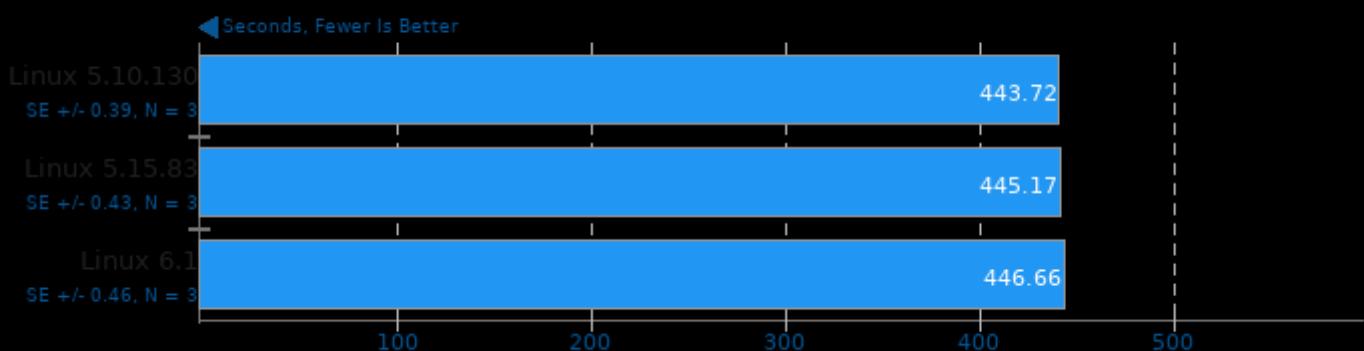
OpenRadioss 2022.10.13

Model: Rubber O-Ring Seal Installation



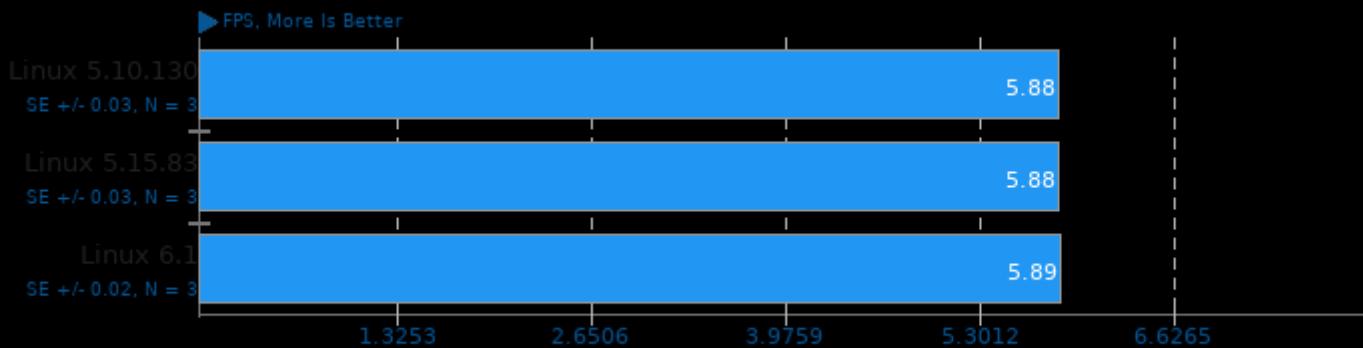
OpenRadioss 2022.10.13

Model: INIVOL and Fluid Structure Interaction Drop Container



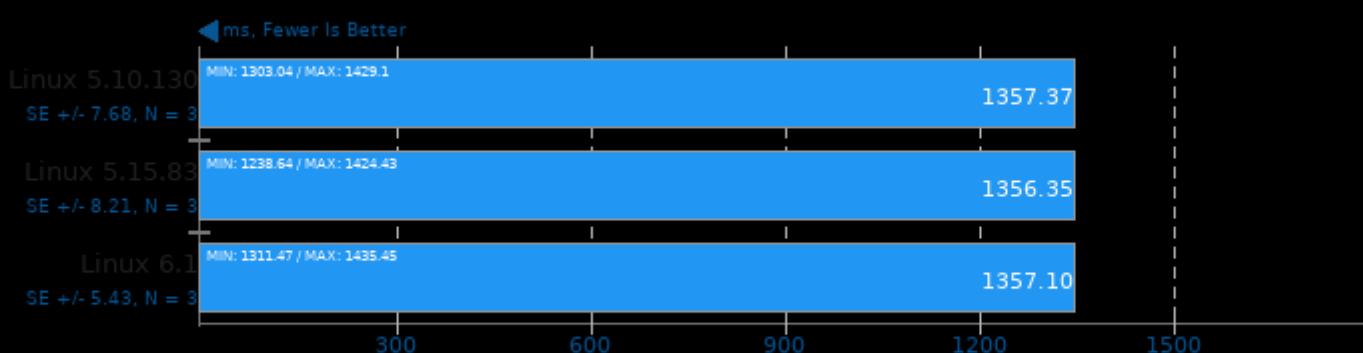
OpenVINO 2022.2.dev

Model: Face Detection FP16 - Device: CPU



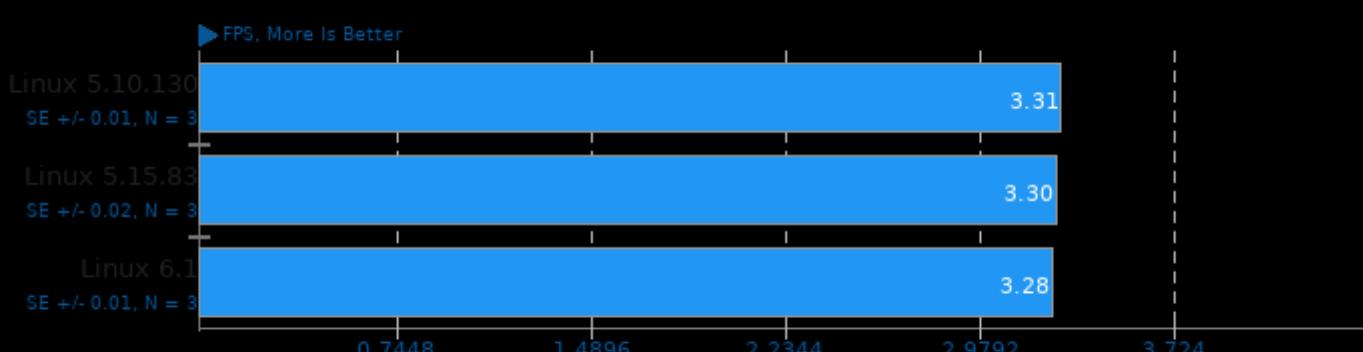
OpenVINO 2022.2.dev

Model: Face Detection FP16 - Device: CPU



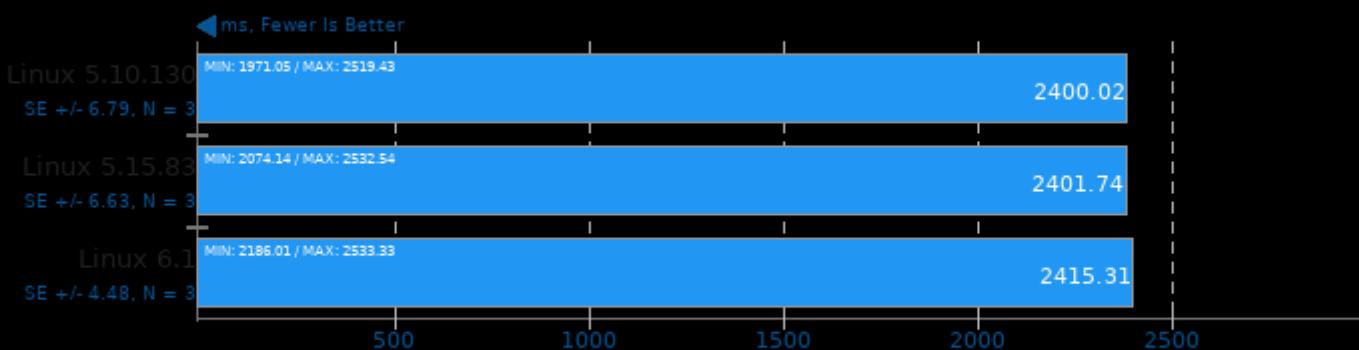
OpenVINO 2022.2.dev

Model: Person Detection FP16 - Device: CPU



OpenVINO 2022.2.dev

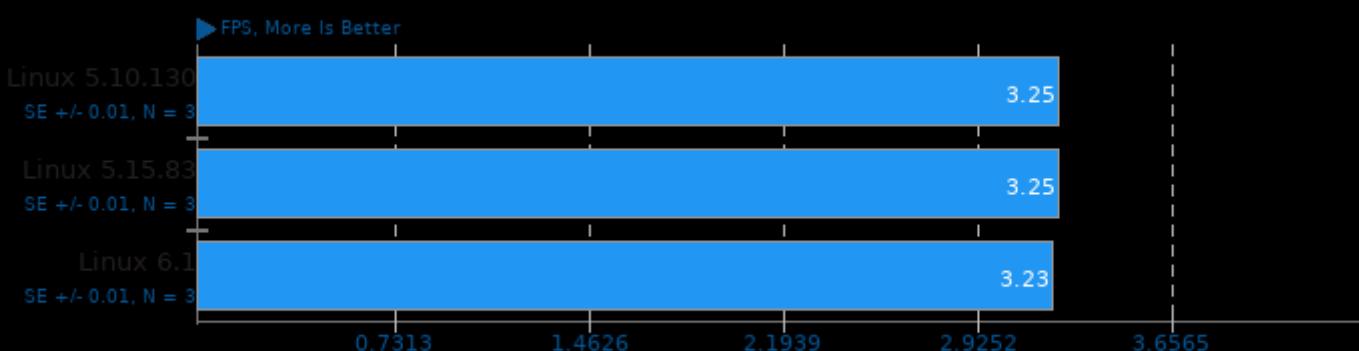
Model: Person Detection FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno-shared

OpenVINO 2022.2.dev

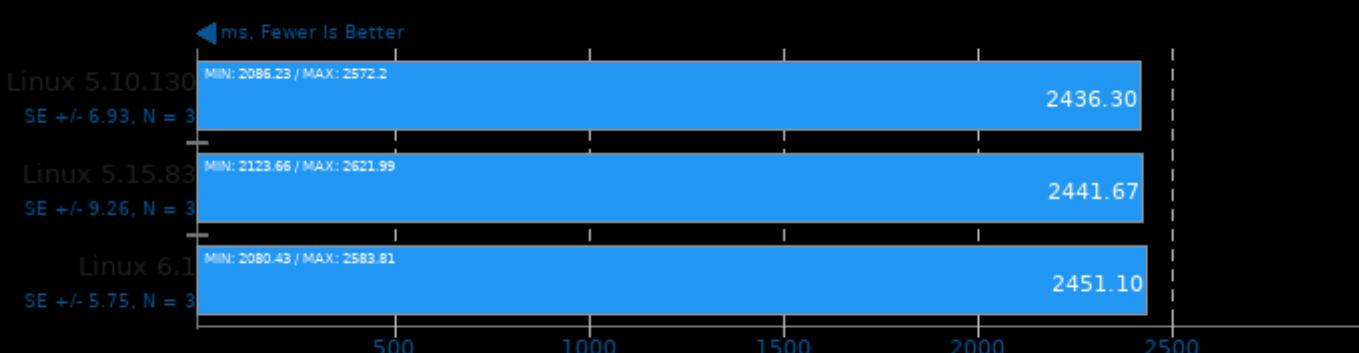
Model: Person Detection FP32 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno-shared

OpenVINO 2022.2.dev

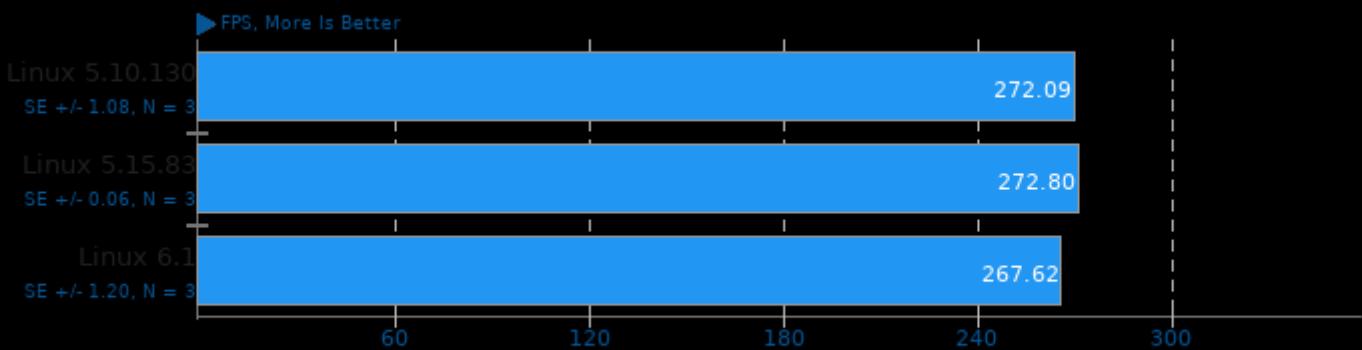
Model: Person Detection FP32 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno-shared

OpenVINO 2022.2.dev

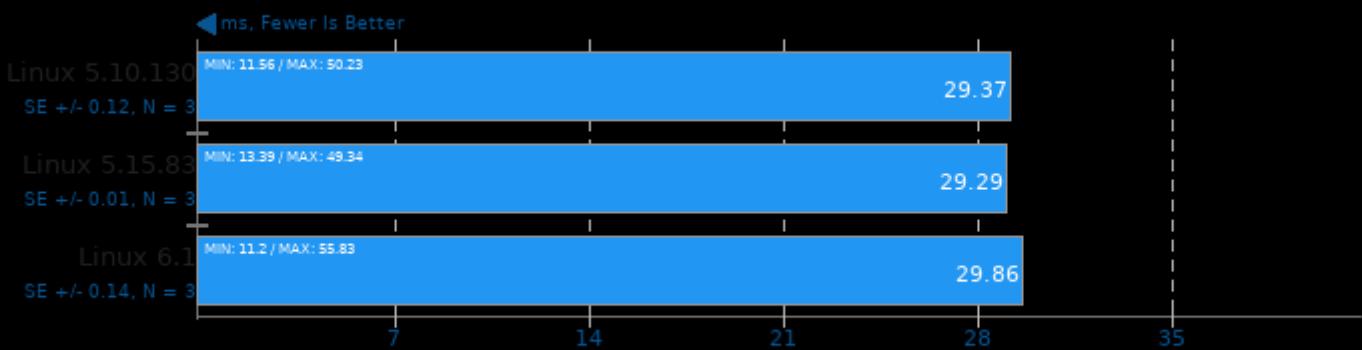
Model: Vehicle Detection FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

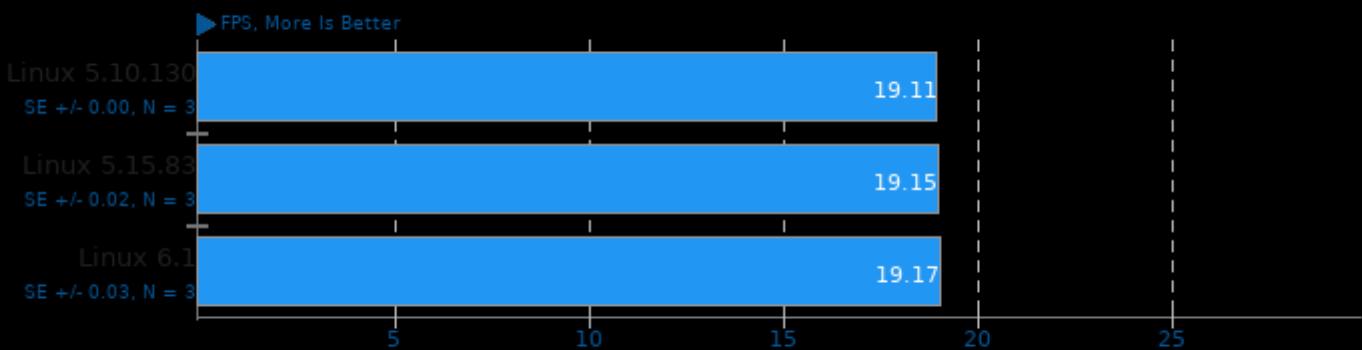
Model: Vehicle Detection FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

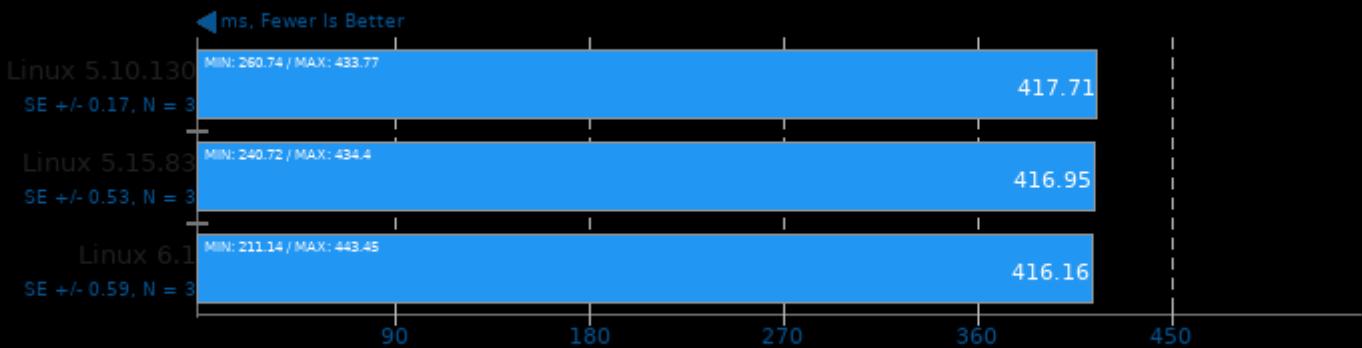
Model: Face Detection FP16-INT8 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

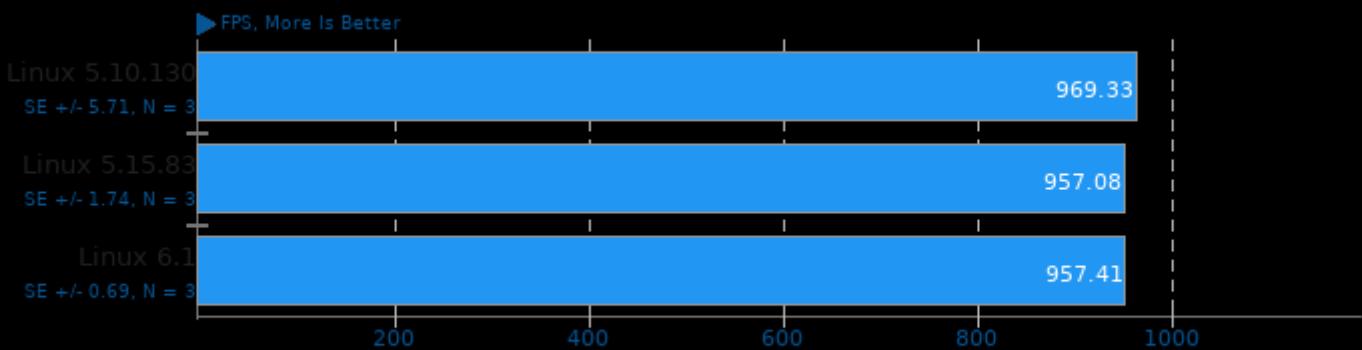
Model: Face Detection FP16-INT8 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

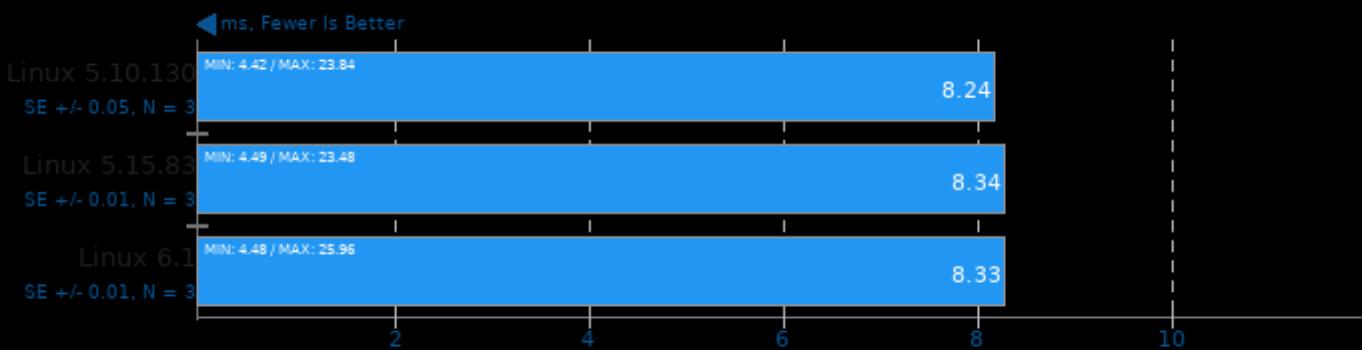
Model: Vehicle Detection FP16-INT8 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

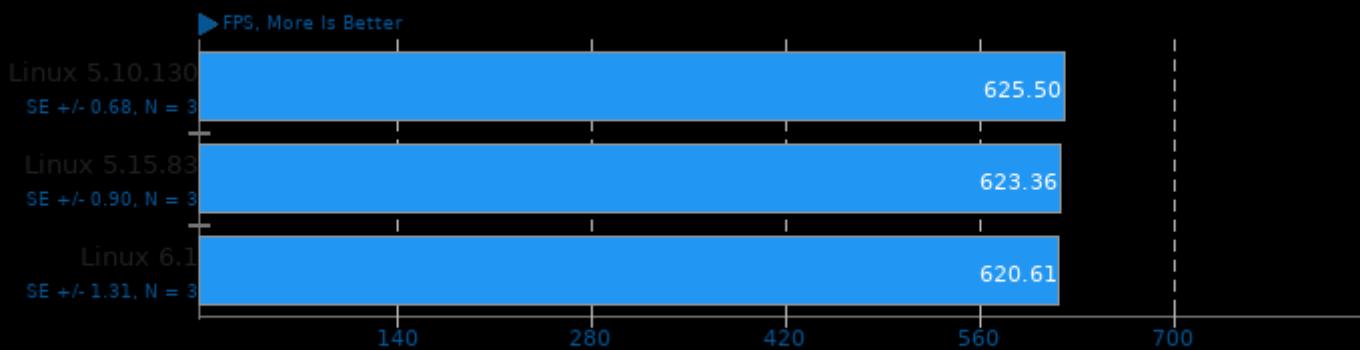
Model: Vehicle Detection FP16-INT8 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

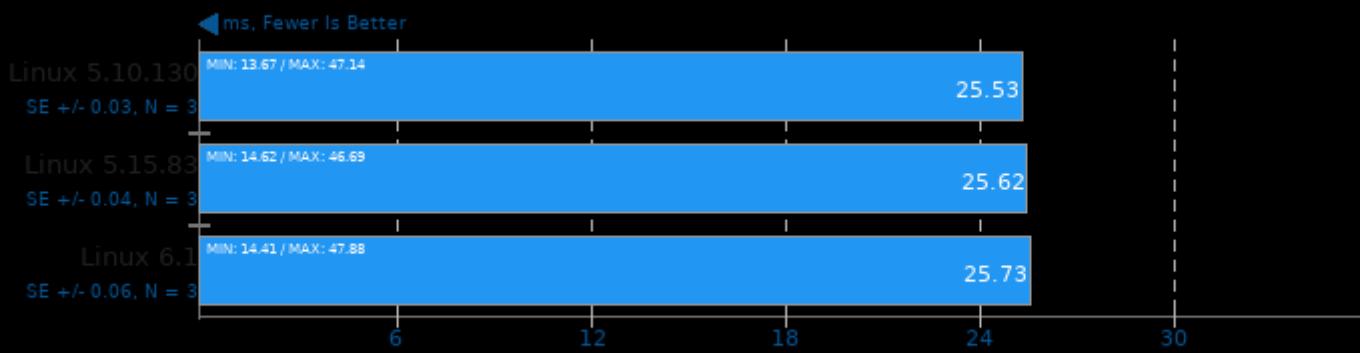
Model: Weld Porosity Detection FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

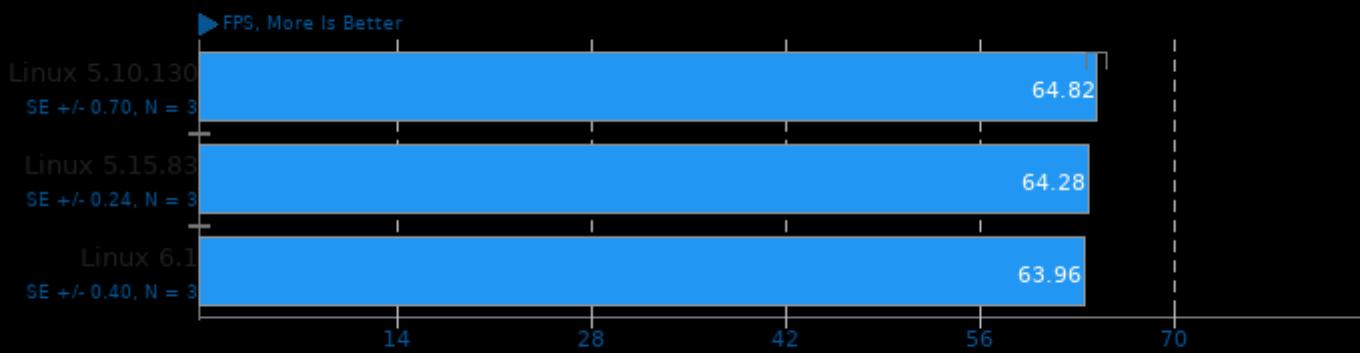
Model: Weld Porosity Detection FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

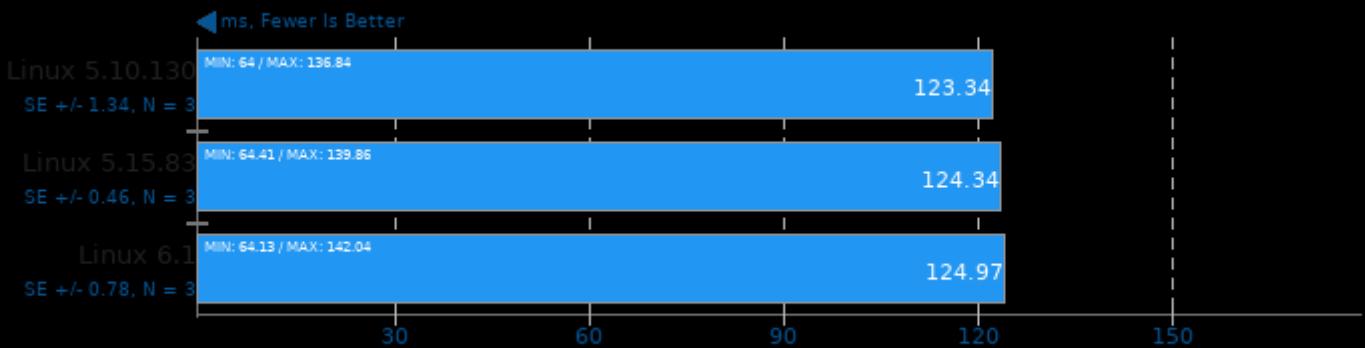
Model: Machine Translation EN To DE FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

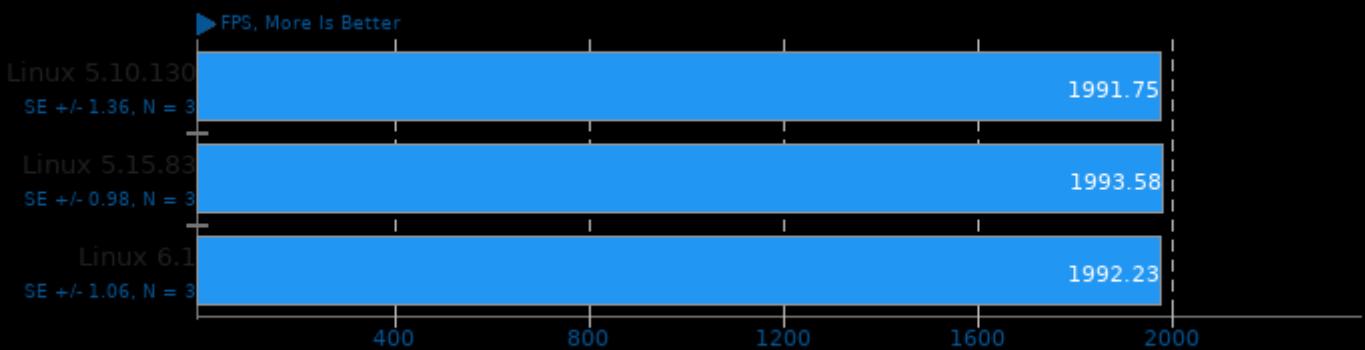
Model: Machine Translation EN To DE FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

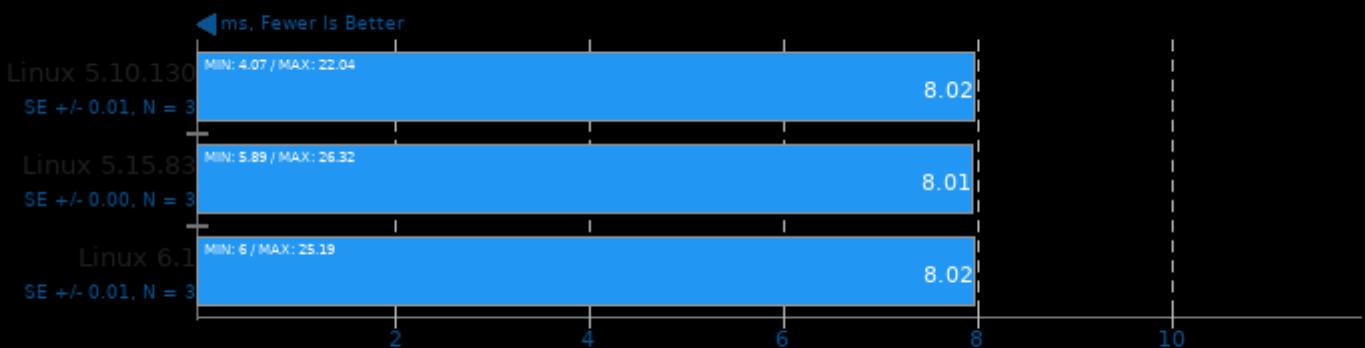
Model: Weld Porosity Detection FP16-INT8 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

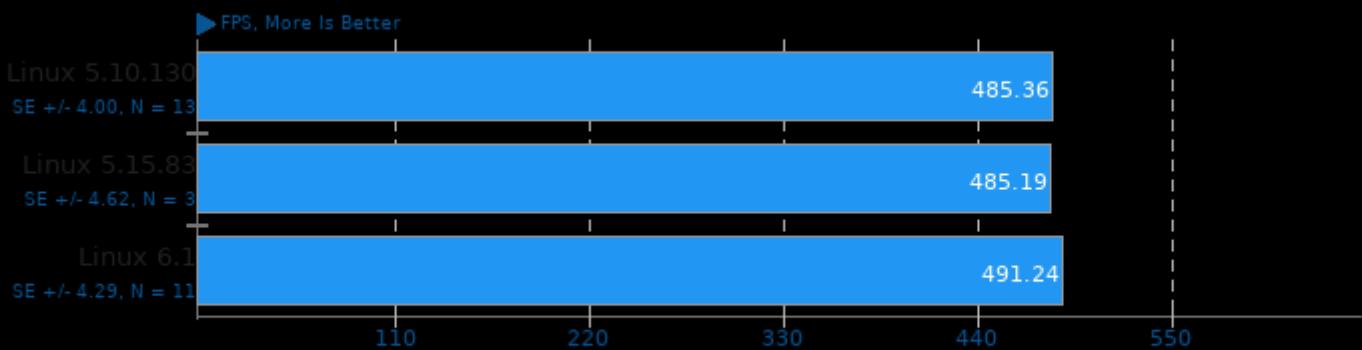
Model: Weld Porosity Detection FP16-INT8 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

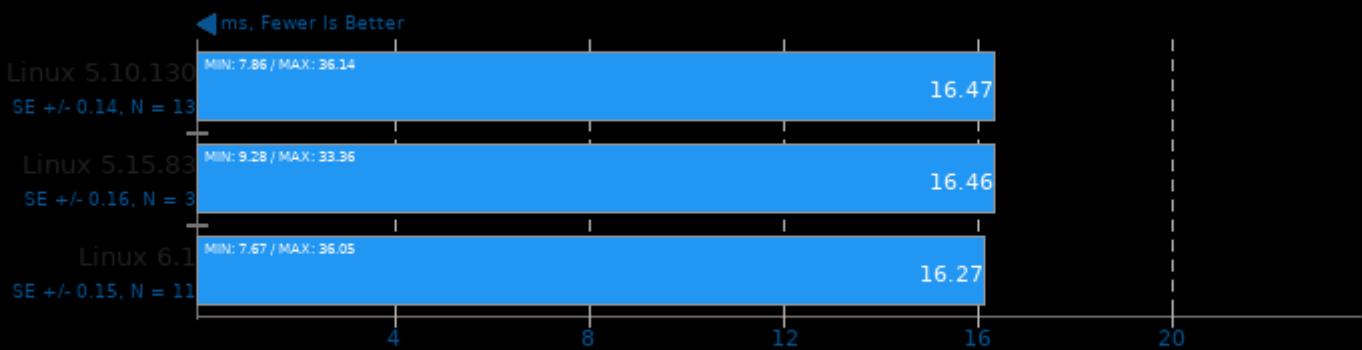
Model: Person Vehicle Bike Detection FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

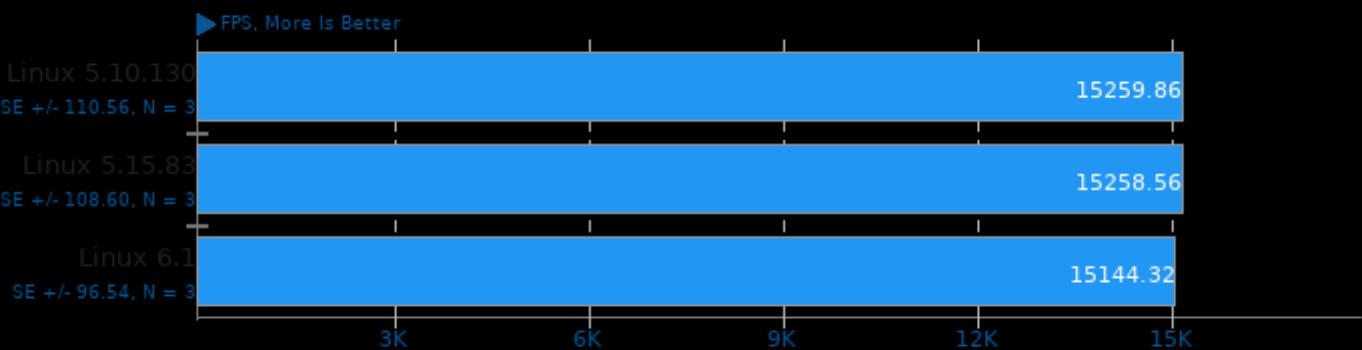
Model: Person Vehicle Bike Detection FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

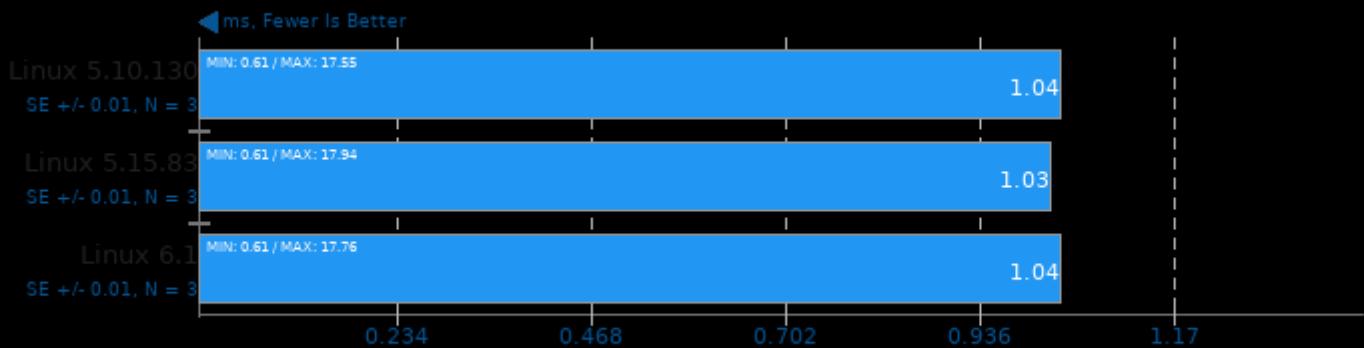
Model: Age Gender Recognition Retail 0013 FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

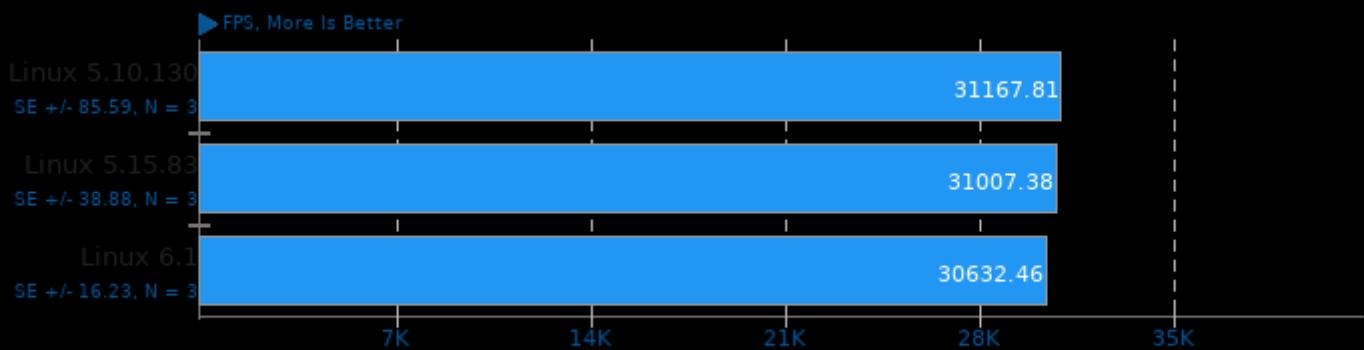
Model: Age Gender Recognition Retail 0013 FP16 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

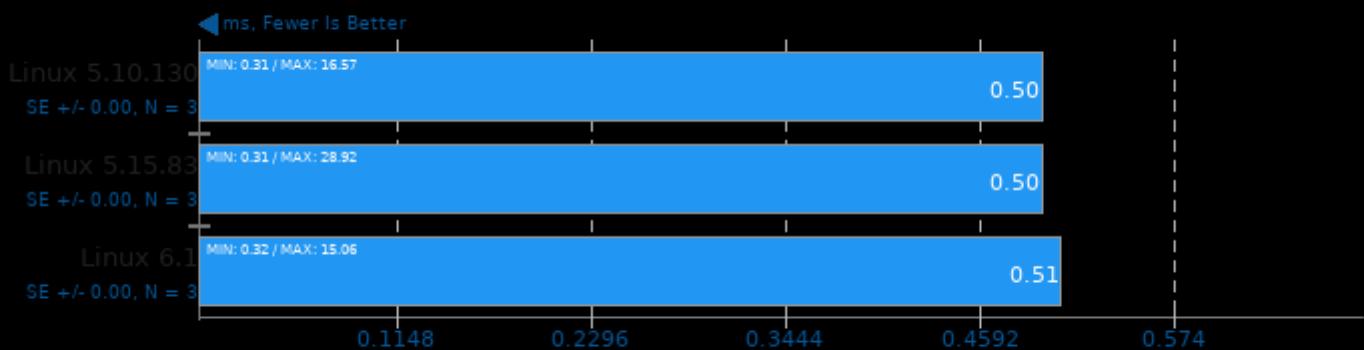
Model: Age Gender Recognition Retail 0013 FP16-INT8 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OpenVINO 2022.2.dev

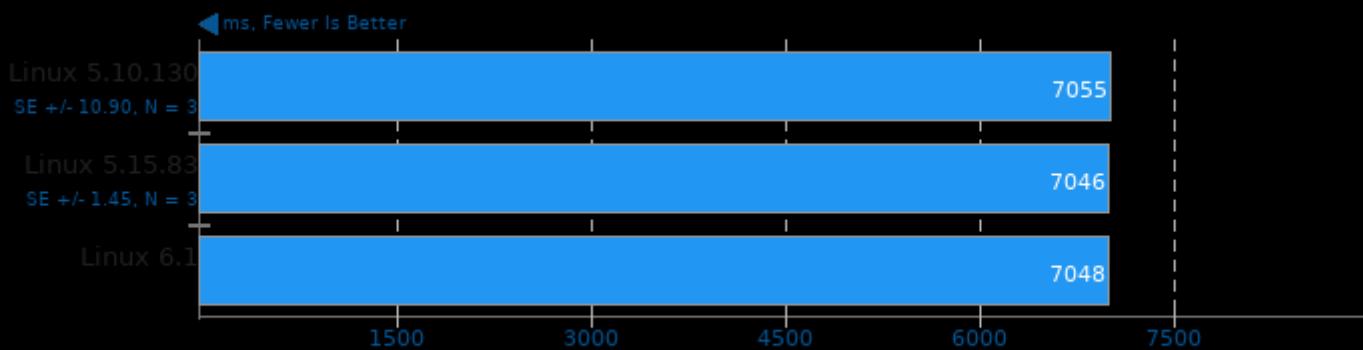
Model: Age Gender Recognition Retail 0013 FP16-INT8 - Device: CPU



1. (CXX) g++ options: -fPIC -fsigned-char -ffunction-sections -fdata-sections -O3 -fno-strict-overflow -fwrapv -fno -shared

OSPRay Studio 0.11

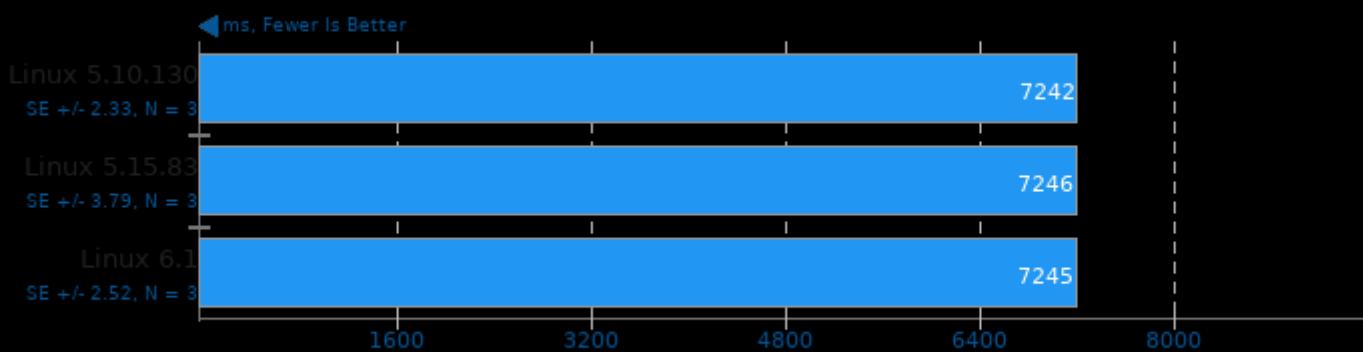
Camera: 1 - Resolution: 4K - Samples Per Pixel: 1 - Renderer: Path Tracer



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

OSPRay Studio 0.11

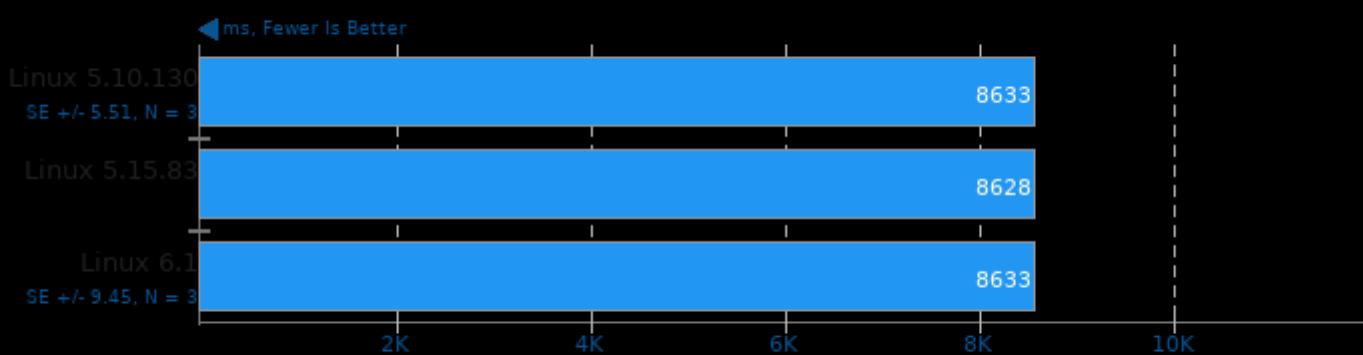
Camera: 2 - Resolution: 4K - Samples Per Pixel: 1 - Renderer: Path Tracer



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

OSPRay Studio 0.11

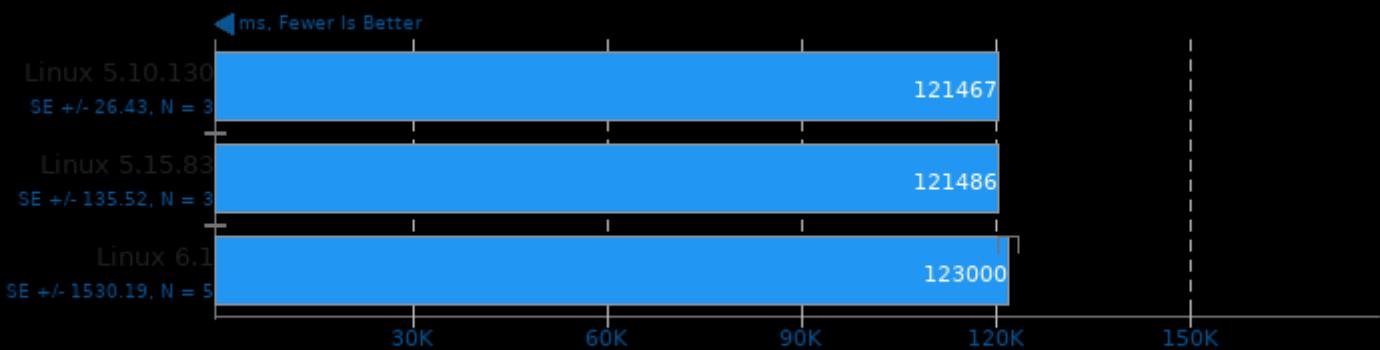
Camera: 3 - Resolution: 4K - Samples Per Pixel: 1 - Renderer: Path Tracer



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

OSPRay Studio 0.11

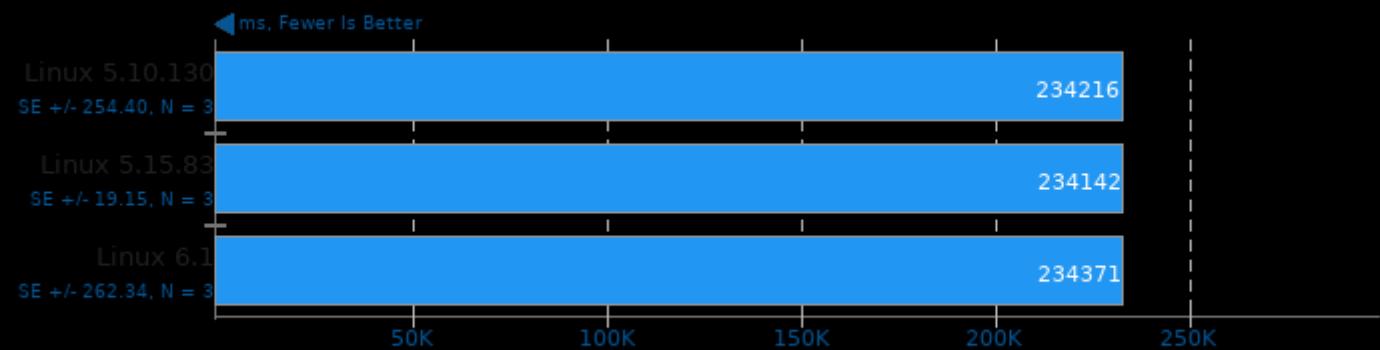
Camera: 1 - Resolution: 4K - Samples Per Pixel: 16 - Renderer: Path Tracer



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

OSPRay Studio 0.11

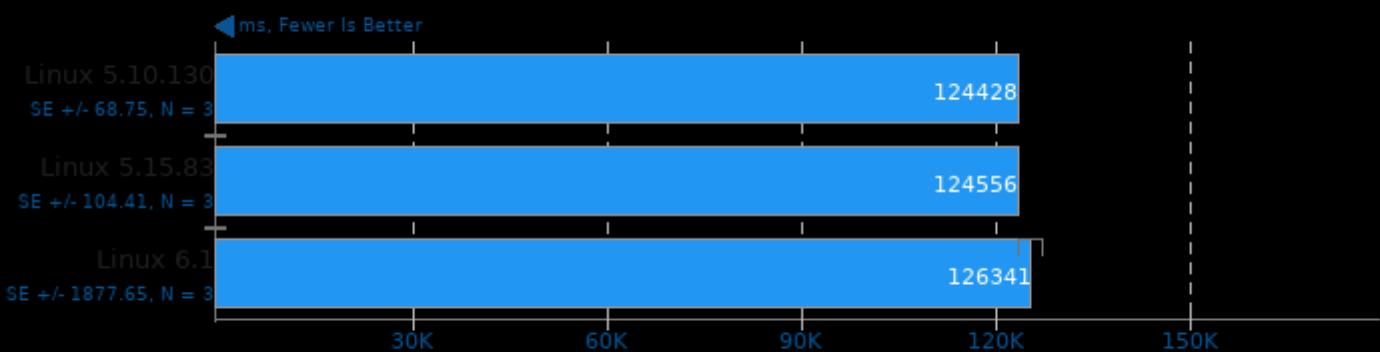
Camera: 1 - Resolution: 4K - Samples Per Pixel: 32 - Renderer: Path Tracer



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

OSPRay Studio 0.11

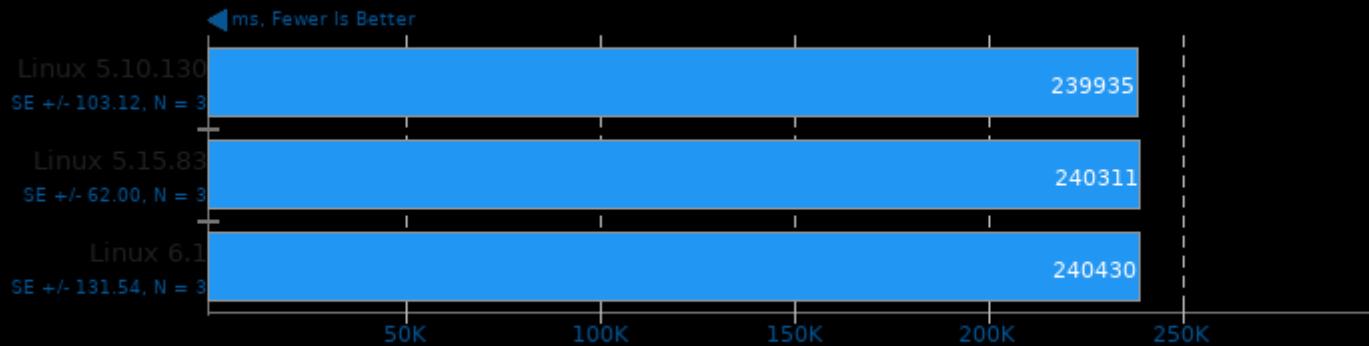
Camera: 2 - Resolution: 4K - Samples Per Pixel: 16 - Renderer: Path Tracer



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

OSPRay Studio 0.11

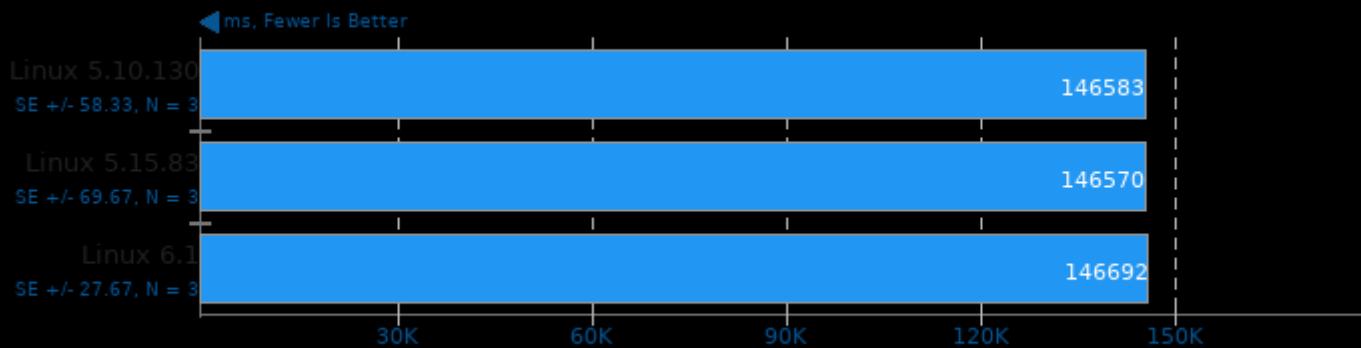
Camera: 2 - Resolution: 4K - Samples Per Pixel: 32 - Renderer: Path Tracer



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

OSPRay Studio 0.11

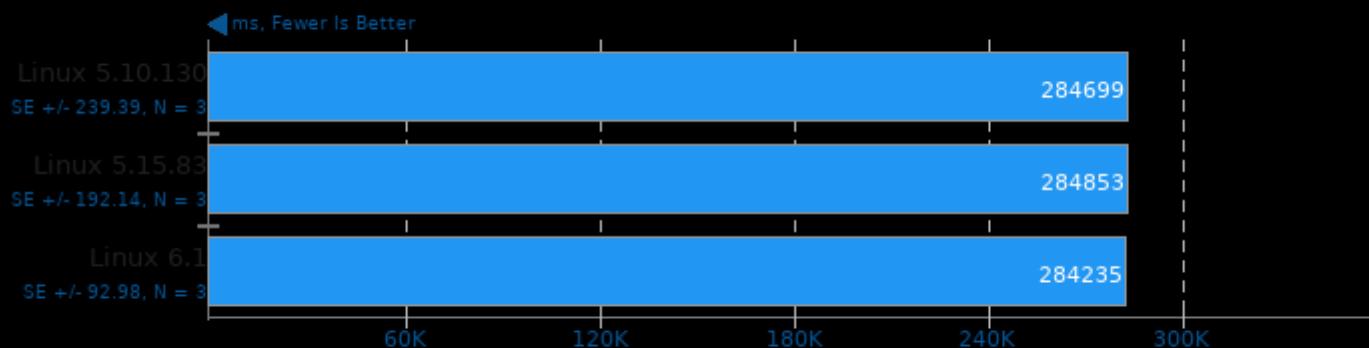
Camera: 3 - Resolution: 4K - Samples Per Pixel: 16 - Renderer: Path Tracer



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

OSPRay Studio 0.11

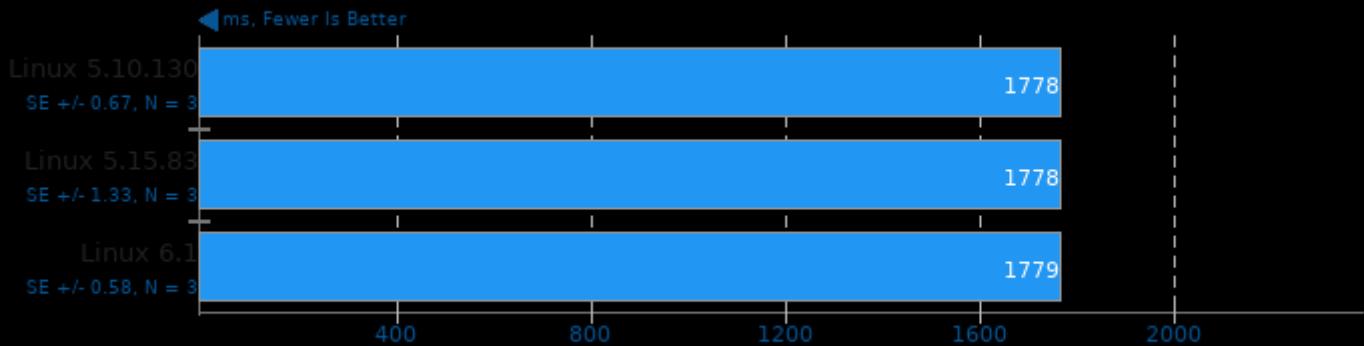
Camera: 3 - Resolution: 4K - Samples Per Pixel: 32 - Renderer: Path Tracer



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

OSPRay Studio 0.11

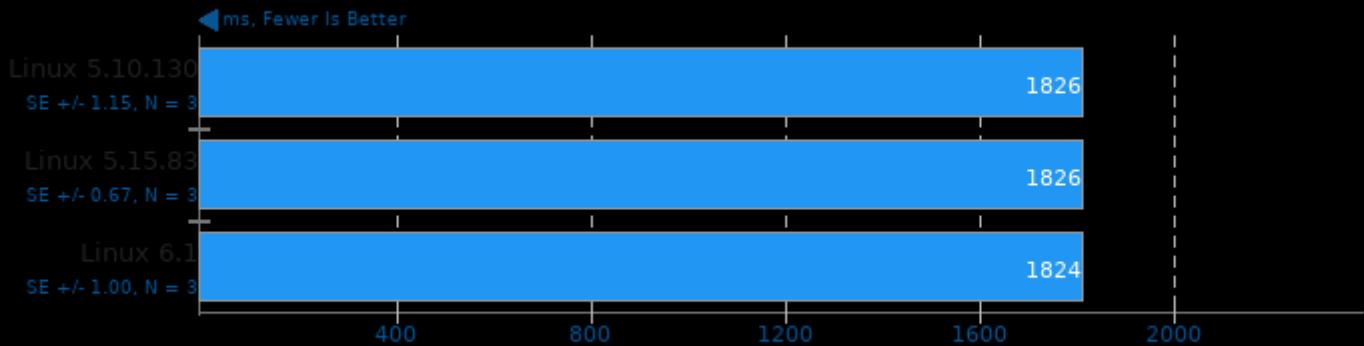
Camera: 1 - Resolution: 1080p - Samples Per Pixel: 1 - Renderer: Path Tracer



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

OSPRay Studio 0.11

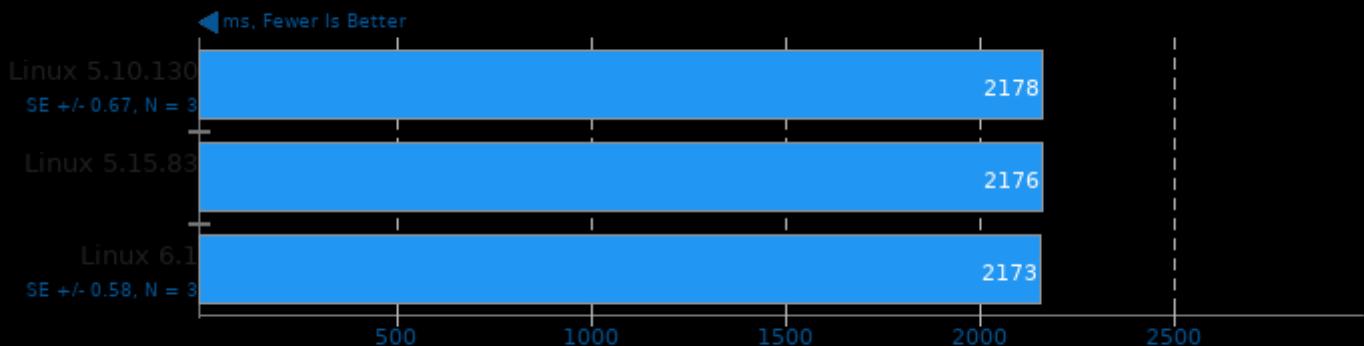
Camera: 2 - Resolution: 1080p - Samples Per Pixel: 1 - Renderer: Path Tracer



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

OSPRay Studio 0.11

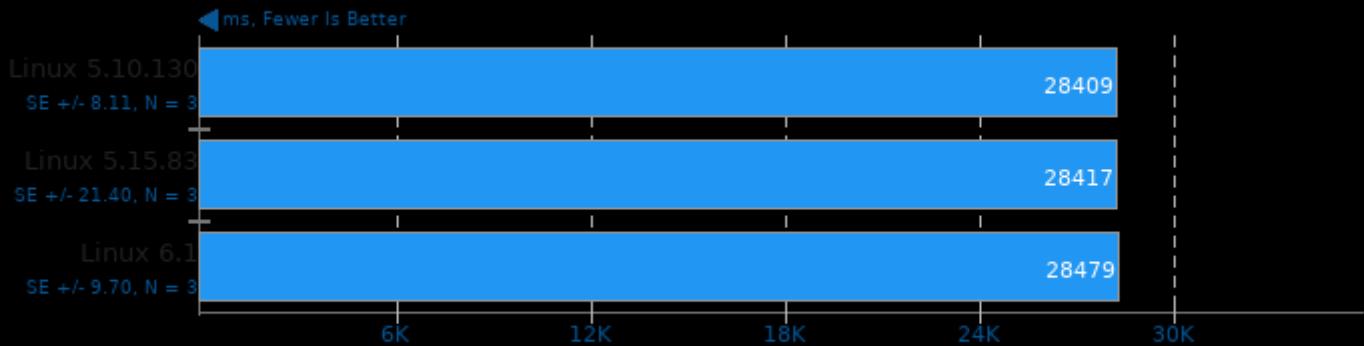
Camera: 3 - Resolution: 1080p - Samples Per Pixel: 1 - Renderer: Path Tracer



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

OSPRay Studio 0.11

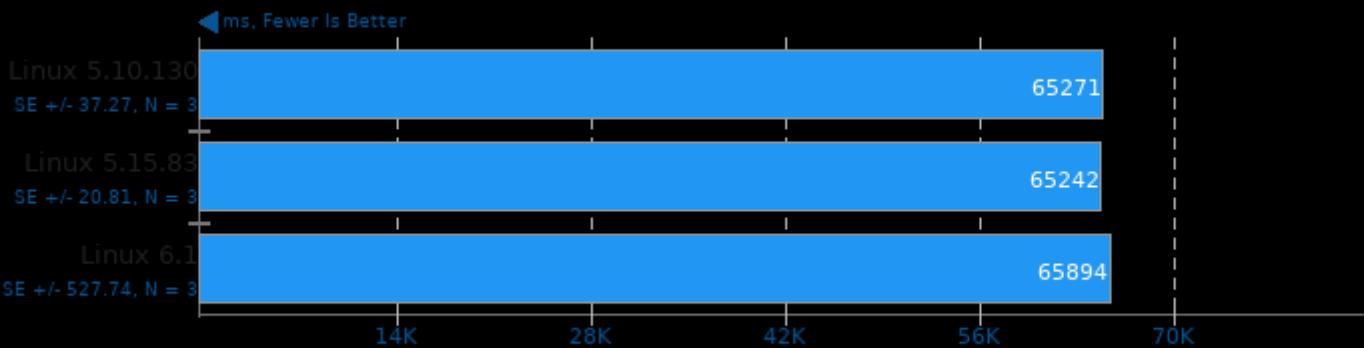
Camera: 1 - Resolution: 1080p - Samples Per Pixel: 16 - Renderer: Path Tracer



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

OSPRay Studio 0.11

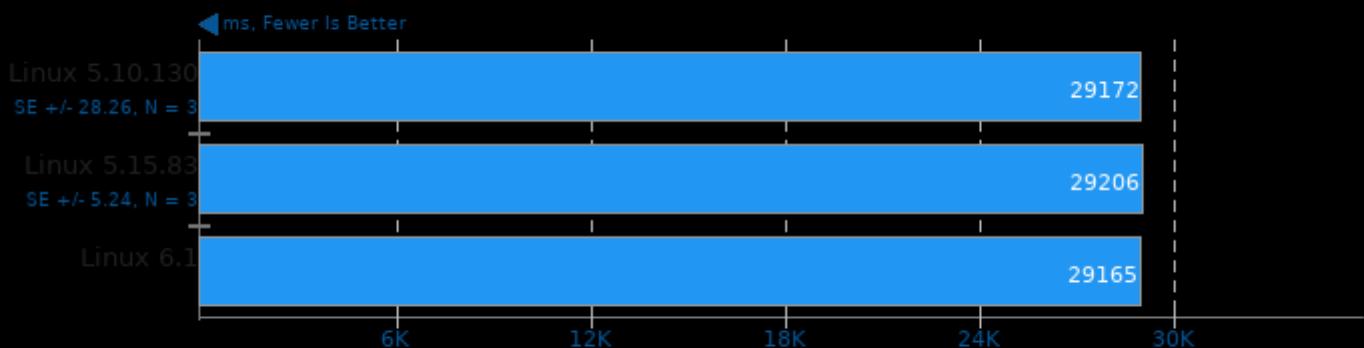
Camera: 1 - Resolution: 1080p - Samples Per Pixel: 32 - Renderer: Path Tracer



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

OSPRay Studio 0.11

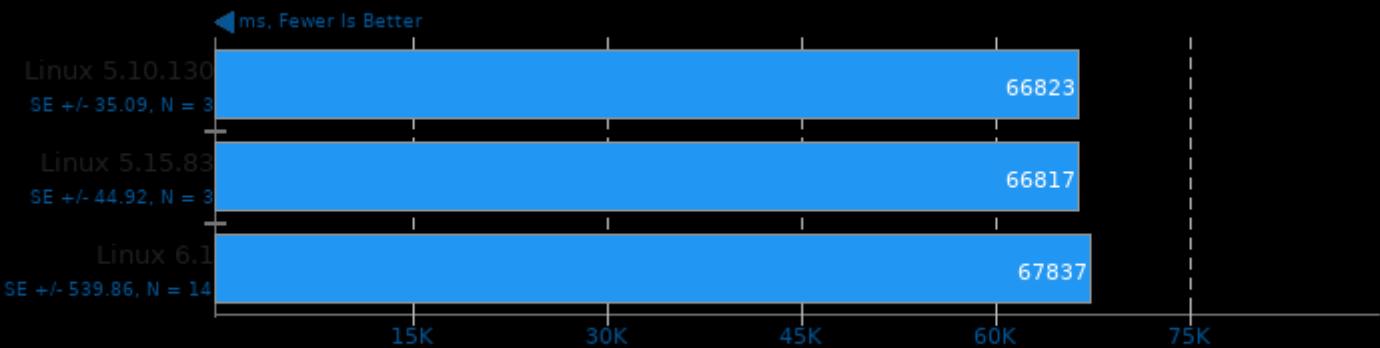
Camera: 2 - Resolution: 1080p - Samples Per Pixel: 16 - Renderer: Path Tracer



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

OSPRay Studio 0.11

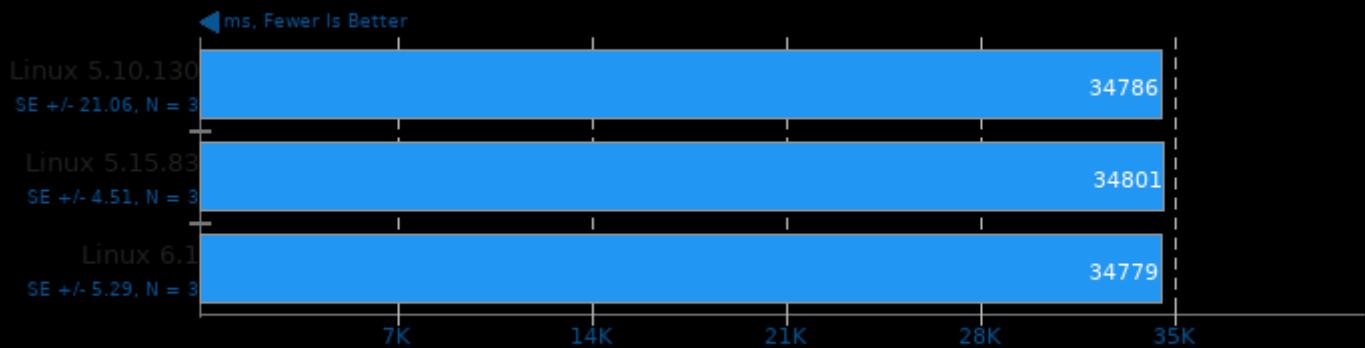
Camera: 2 - Resolution: 1080p - Samples Per Pixel: 32 - Renderer: Path Tracer



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

OSPRay Studio 0.11

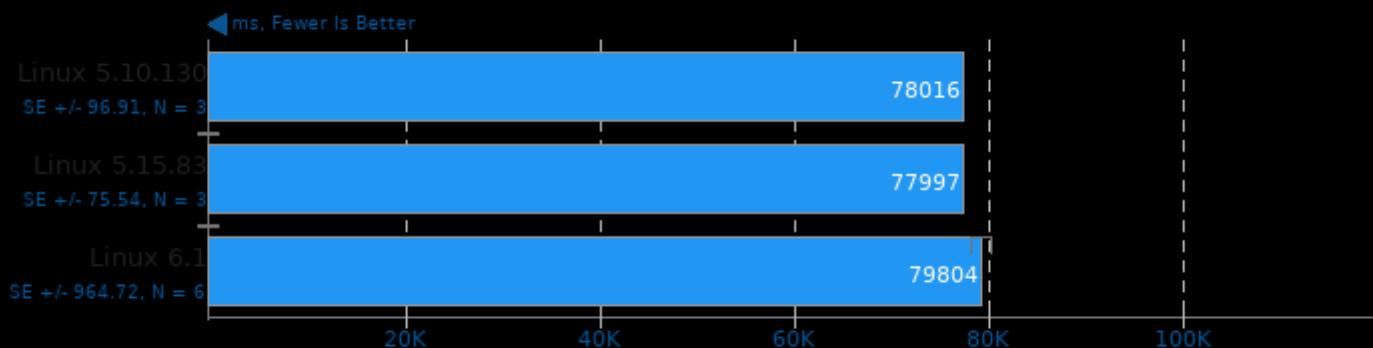
Camera: 3 - Resolution: 1080p - Samples Per Pixel: 16 - Renderer: Path Tracer



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

OSPRay Studio 0.11

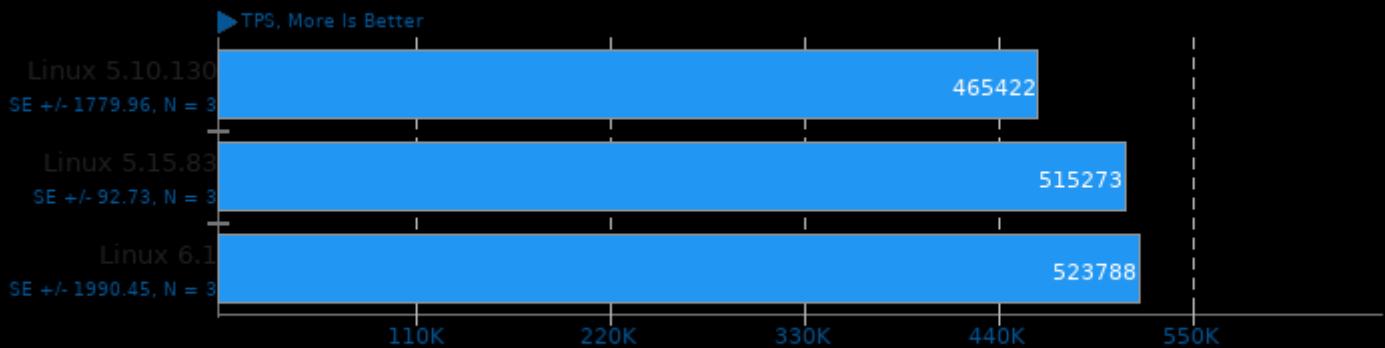
Camera: 3 - Resolution: 1080p - Samples Per Pixel: 32 - Renderer: Path Tracer



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

PostgreSQL 15

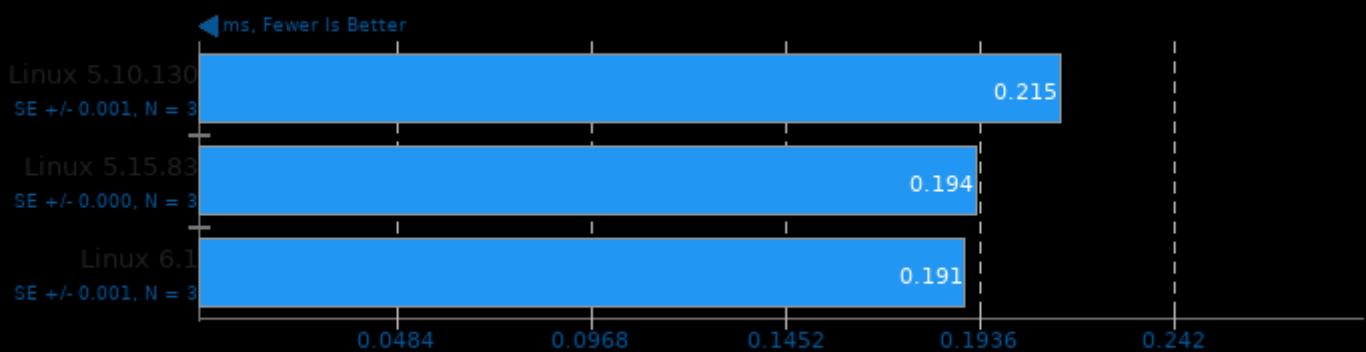
Scaling Factor: 100 - Clients: 100 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL 15

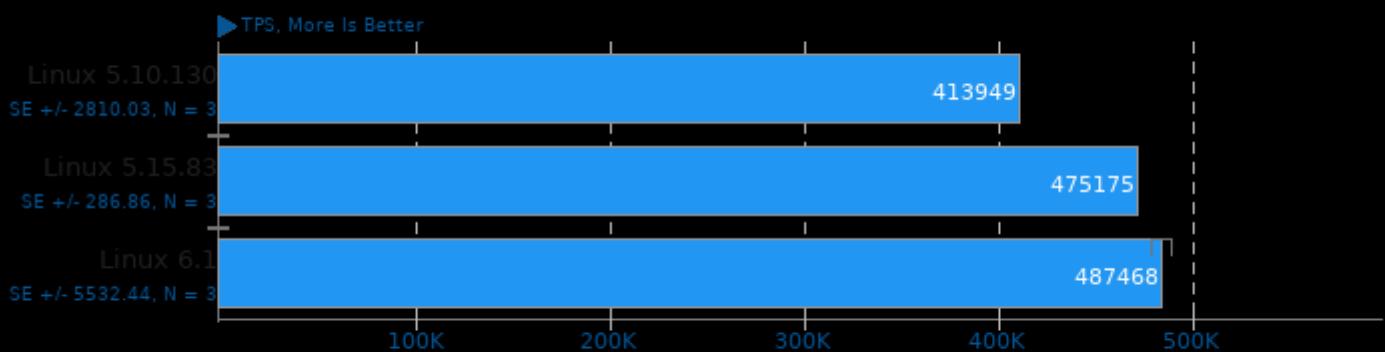
Scaling Factor: 100 - Clients: 100 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL 15

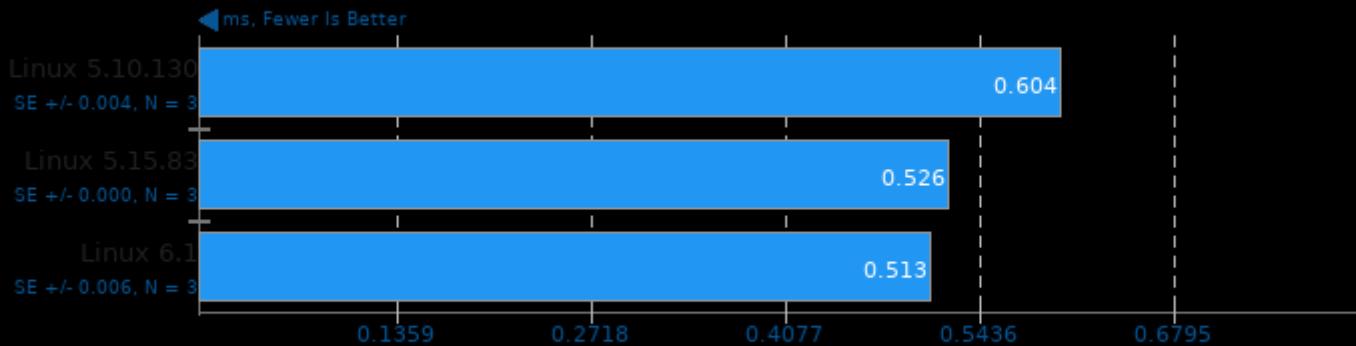
Scaling Factor: 100 - Clients: 250 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL 15

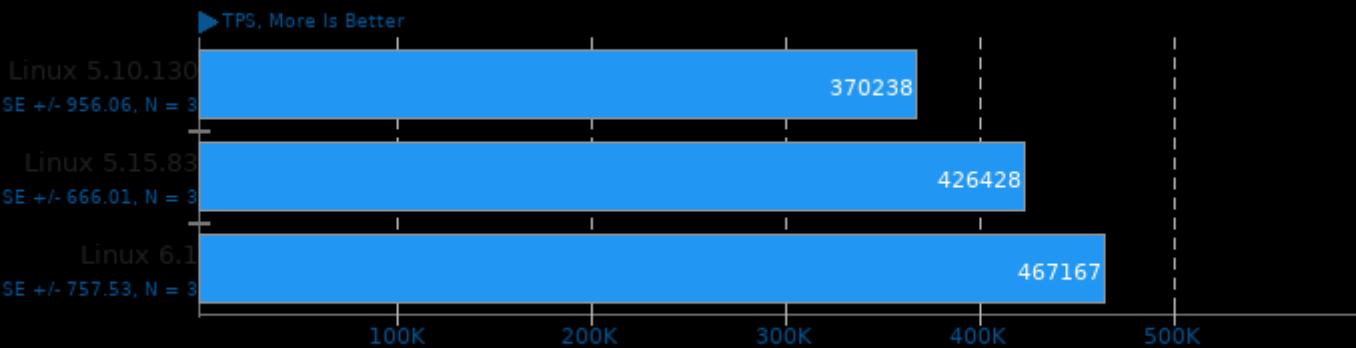
Scaling Factor: 100 - Clients: 250 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL 15

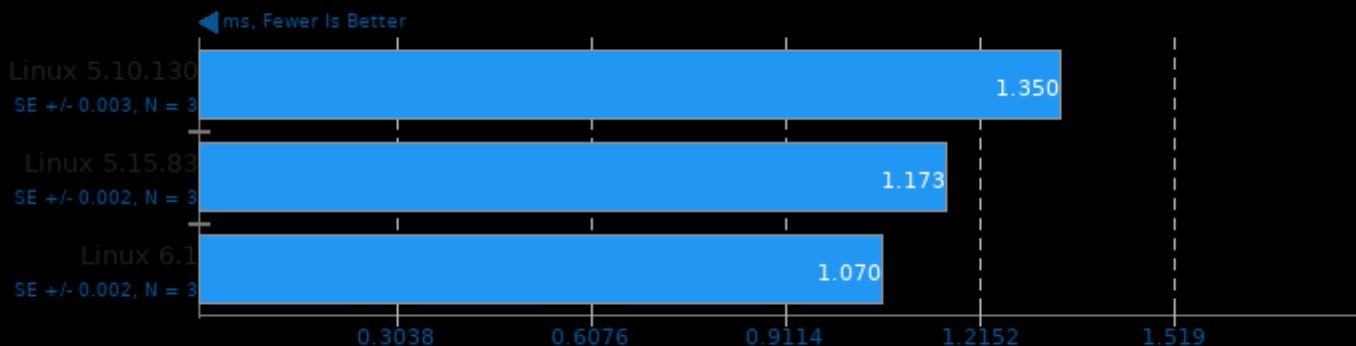
Scaling Factor: 100 - Clients: 500 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL 15

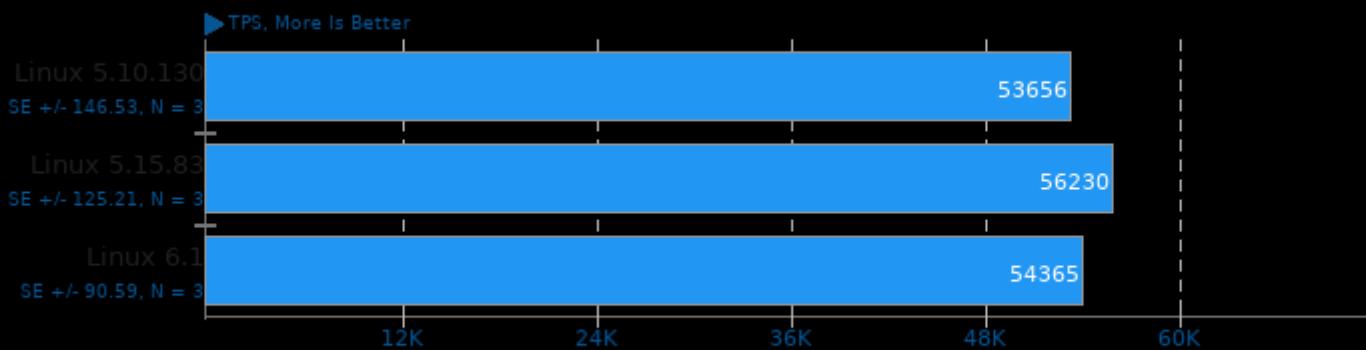
Scaling Factor: 100 - Clients: 500 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL 15

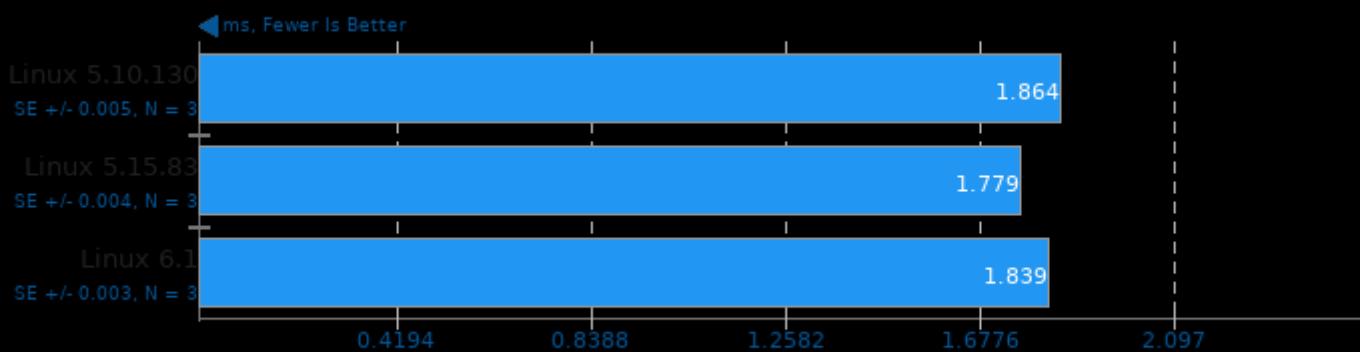
Scaling Factor: 100 - Clients: 100 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lgpgcommon -lgpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL 15

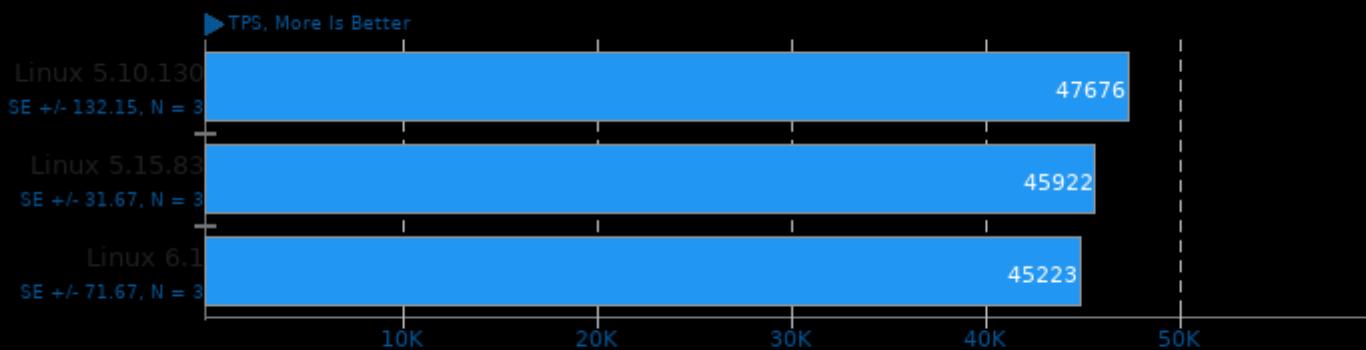
Scaling Factor: 100 - Clients: 100 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lgpgcommon -lgpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL 15

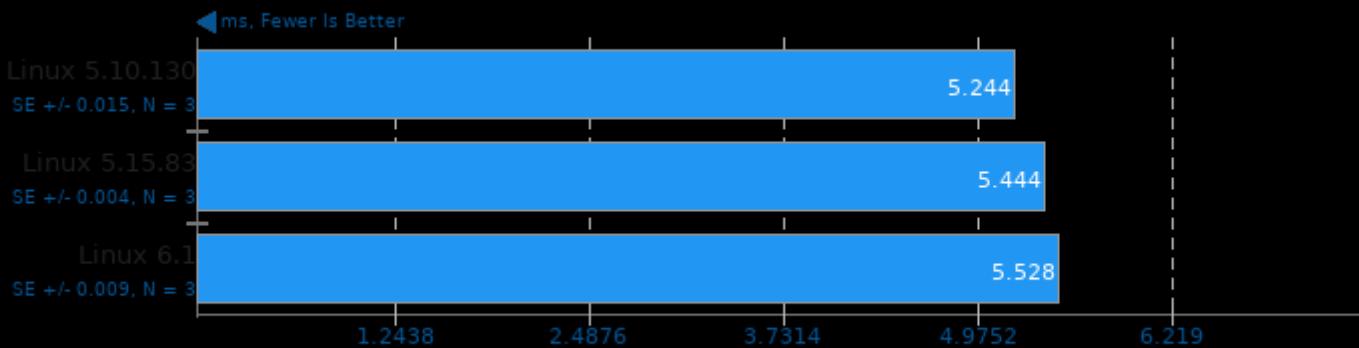
Scaling Factor: 100 - Clients: 250 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lgpgcommon -lgpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL 15

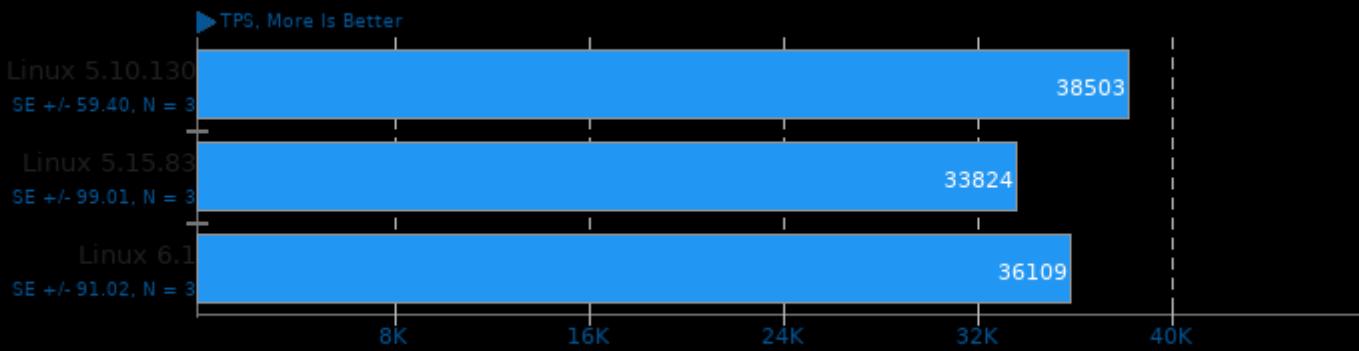
Scaling Factor: 100 - Clients: 250 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lgcccommon -lgccport -lpq -lpthread -lrt -ldl -lm

PostgreSQL 15

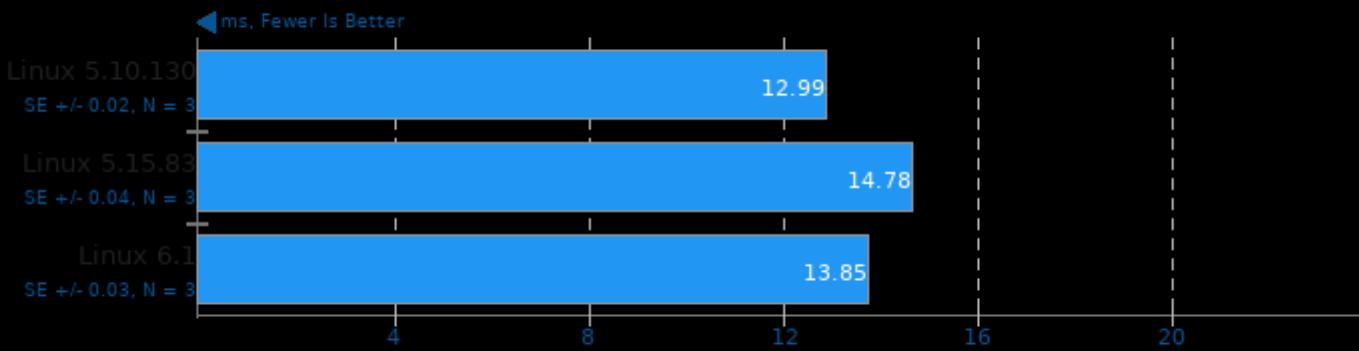
Scaling Factor: 100 - Clients: 500 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lgcccommon -lgccport -lpq -lpthread -lrt -ldl -lm

PostgreSQL 15

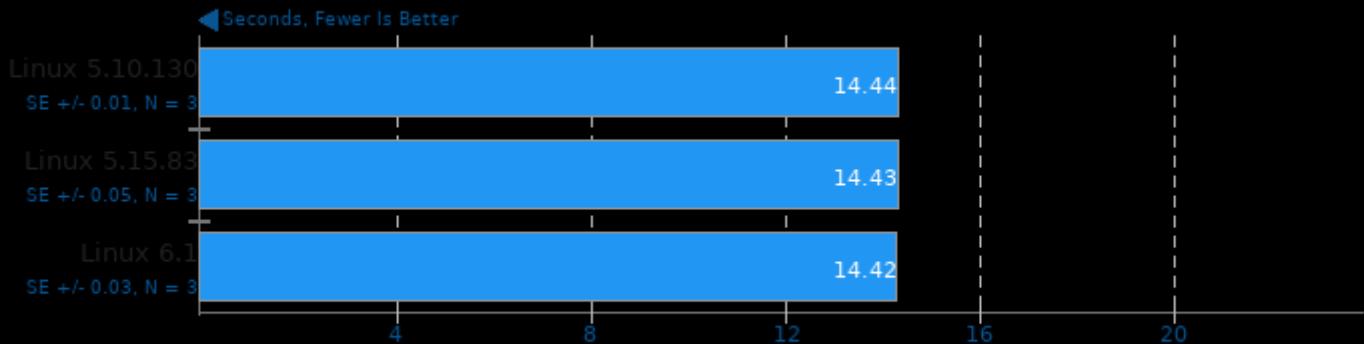
Scaling Factor: 100 - Clients: 500 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lgcccommon -lgccport -lpq -lpthread -lrt -ldl -lm

Primesieve 8.0

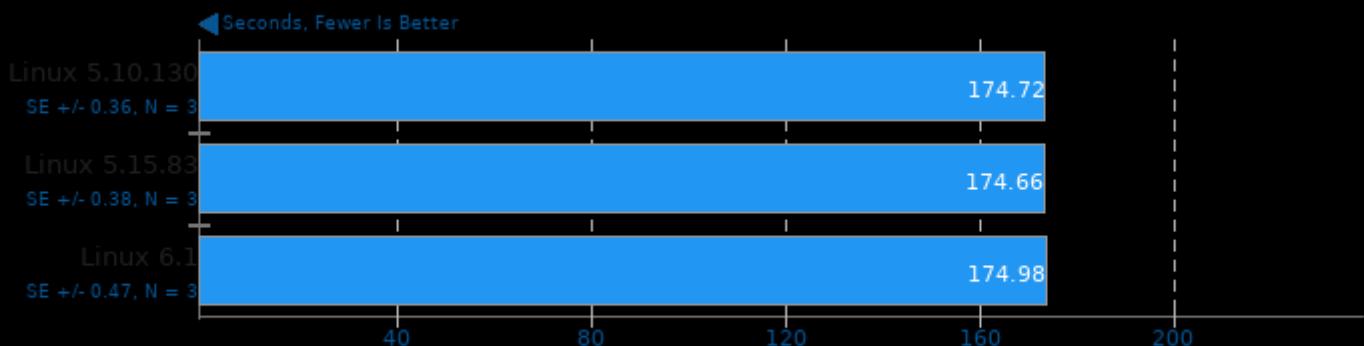
Length: 1e12



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

Primesieve 8.0

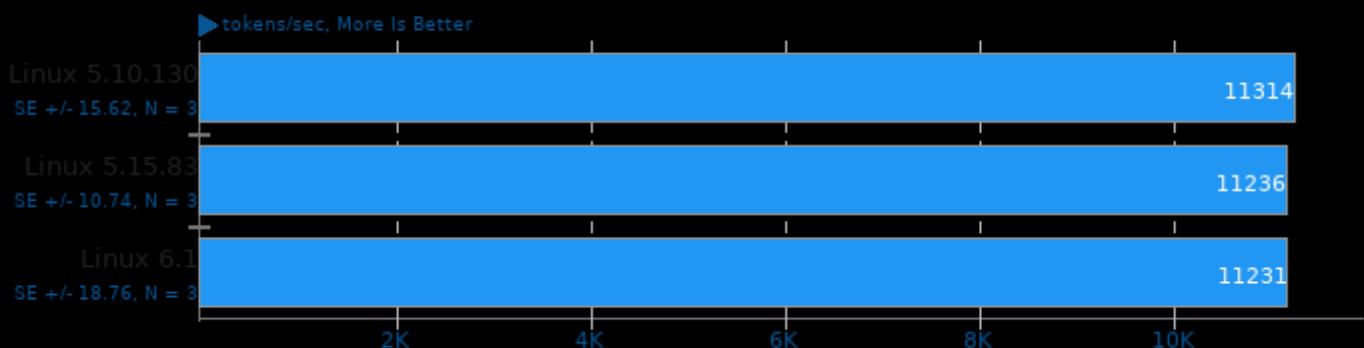
Length: 1e13



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

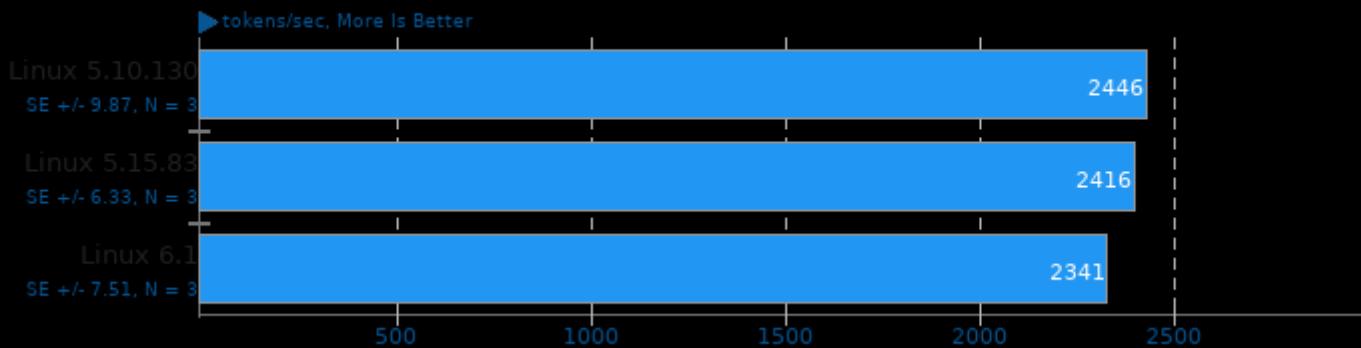
spaCy 3.4.1

Model: en_core_web_lg



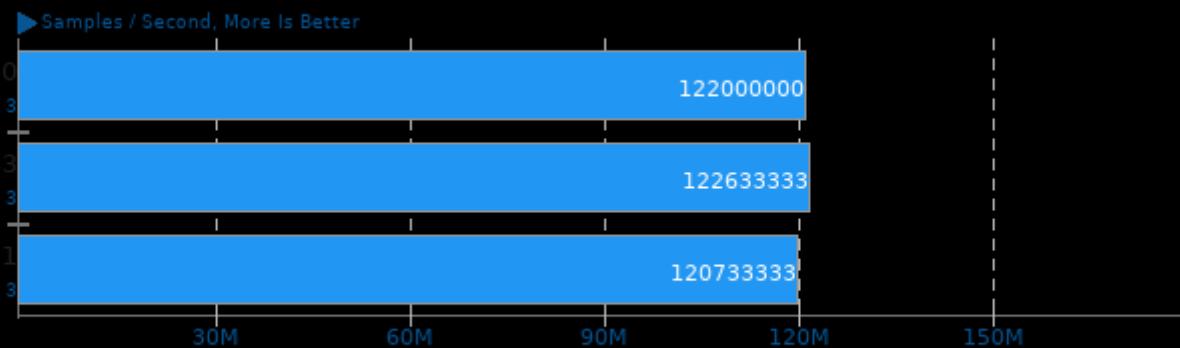
spaCy 3.4.1

Model: en_core_web_trf



srsRAN 22.04.1

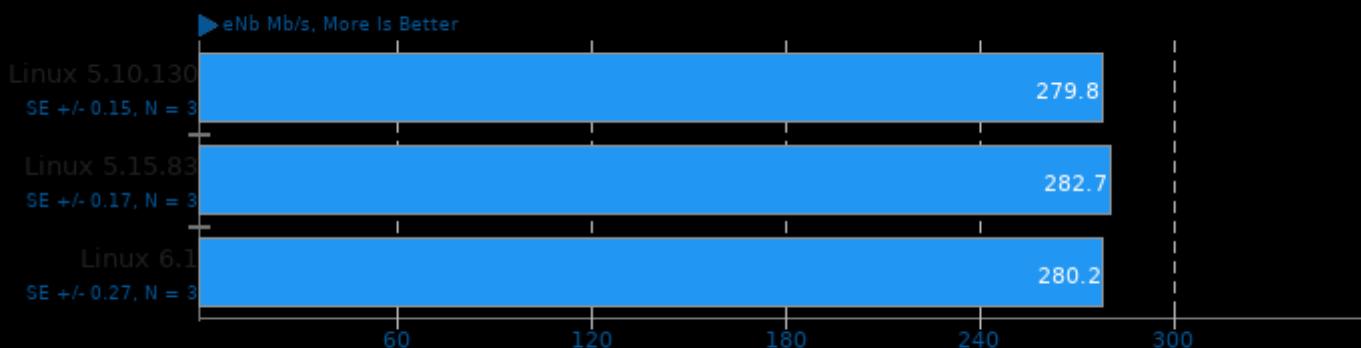
Test: OFDM_Test



1. (CXX) g++ options: -std=c++14 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 22.04.1

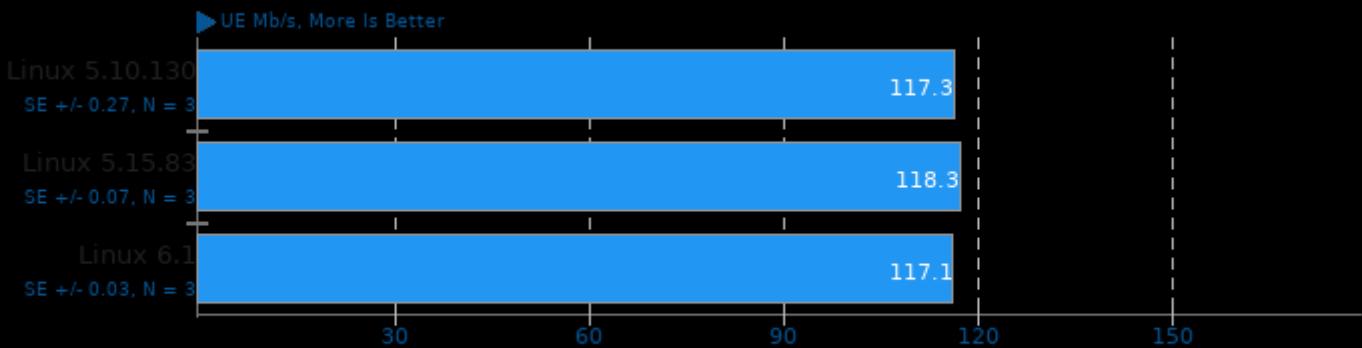
Test: 4G PHY_DL_Test 100 PRB MIMO 64-QAM



1. (CXX) g++ options: -std=c++14 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 22.04.1

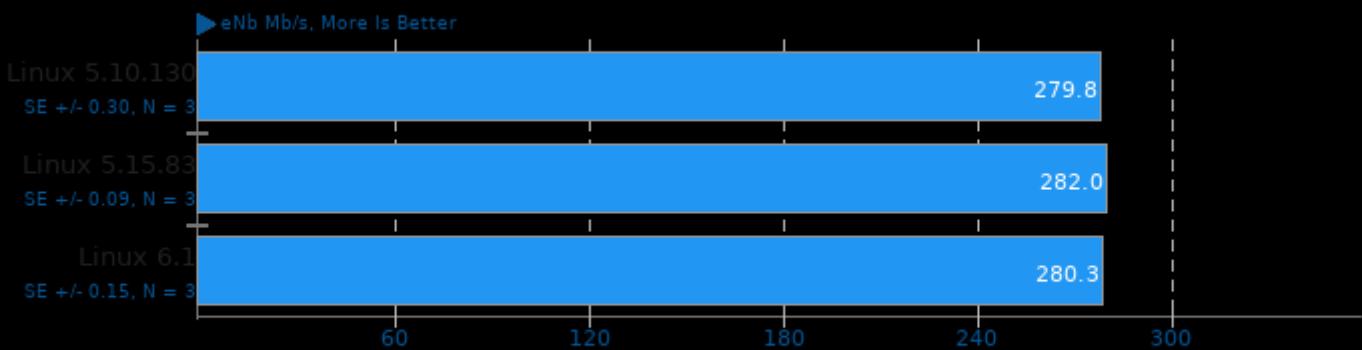
Test: 4G PHY_DL_Test 100 PRB MIMO 64-QAM



1. (CXX) g++ options: -std=c++14 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 22.04.1

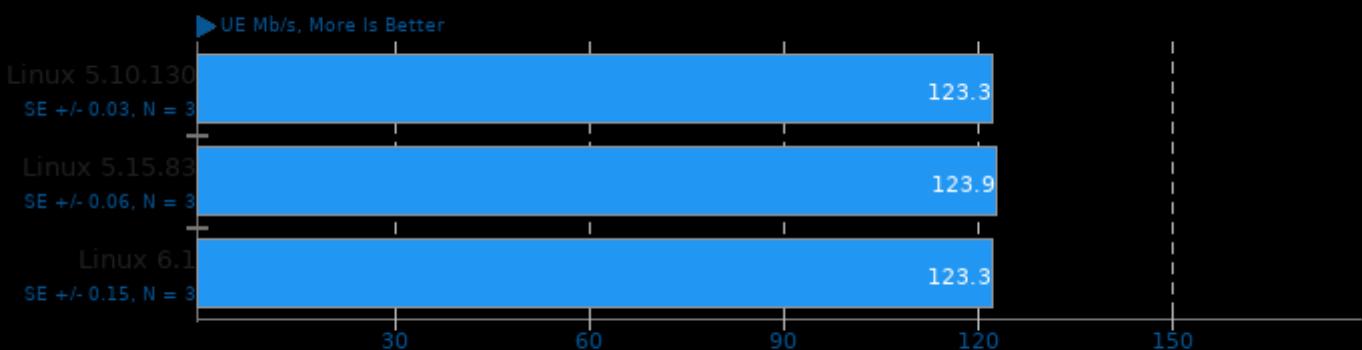
Test: 4G PHY_DL_Test 100 PRB SISO 64-QAM



1. (CXX) g++ options: -std=c++14 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 22.04.1

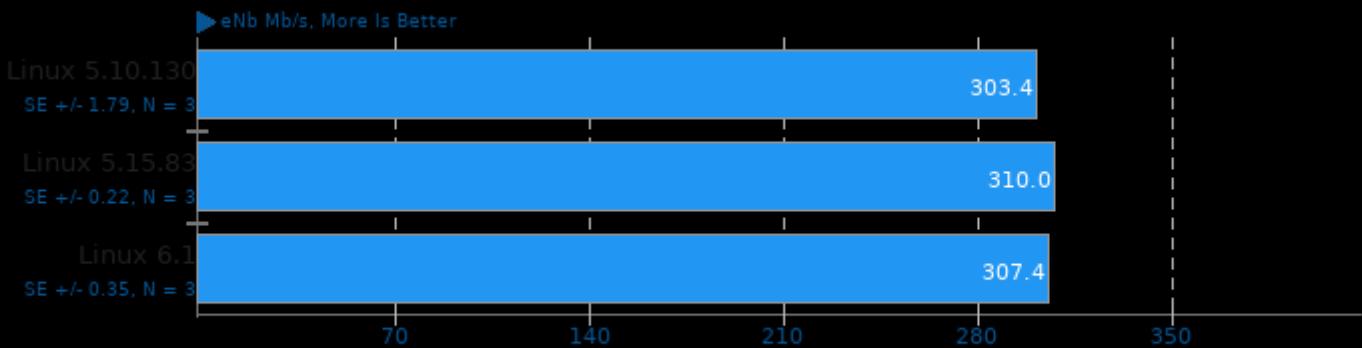
Test: 4G PHY_DL_Test 100 PRB SISO 64-QAM



1. (CXX) g++ options: -std=c++14 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 22.04.1

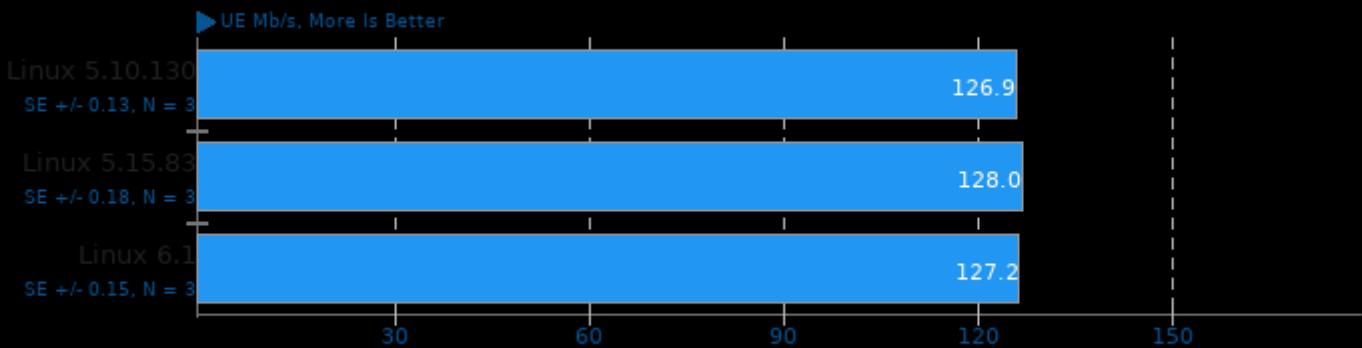
Test: 4G PHY_DL_Test 100 PRB MIMO 256-QAM



1. (CXX) g++ options: -std=c++14 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 22.04.1

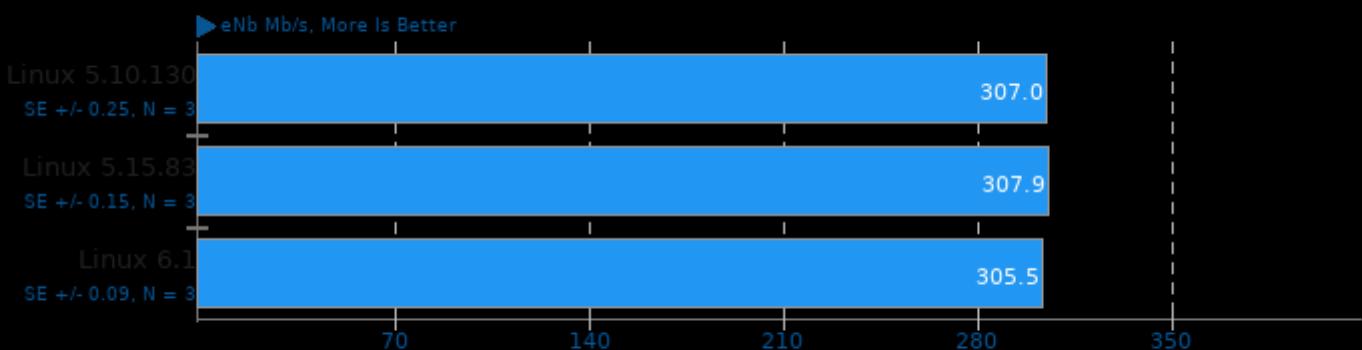
Test: 4G PHY_DL_Test 100 PRB MIMO 256-QAM



1. (CXX) g++ options: -std=c++14 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 22.04.1

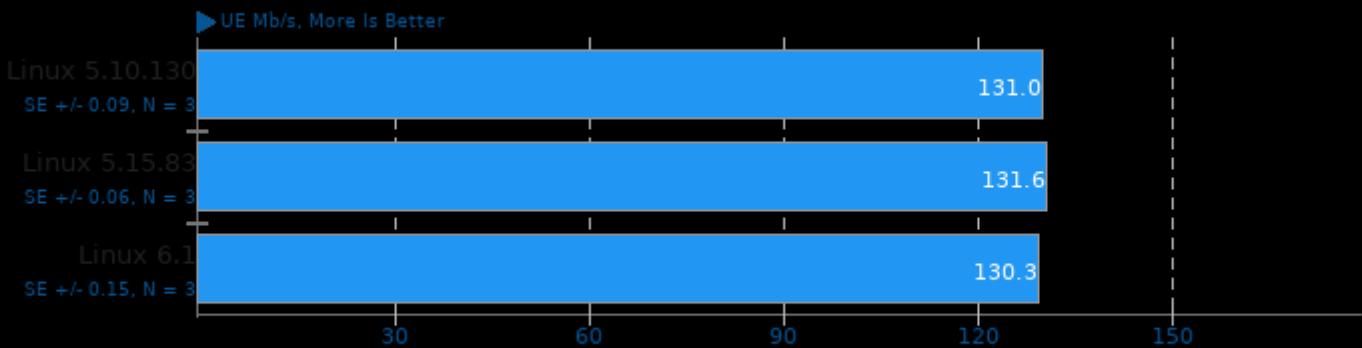
Test: 4G PHY_DL_Test 100 PRB SISO 256-QAM



1. (CXX) g++ options: -std=c++14 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 22.04.1

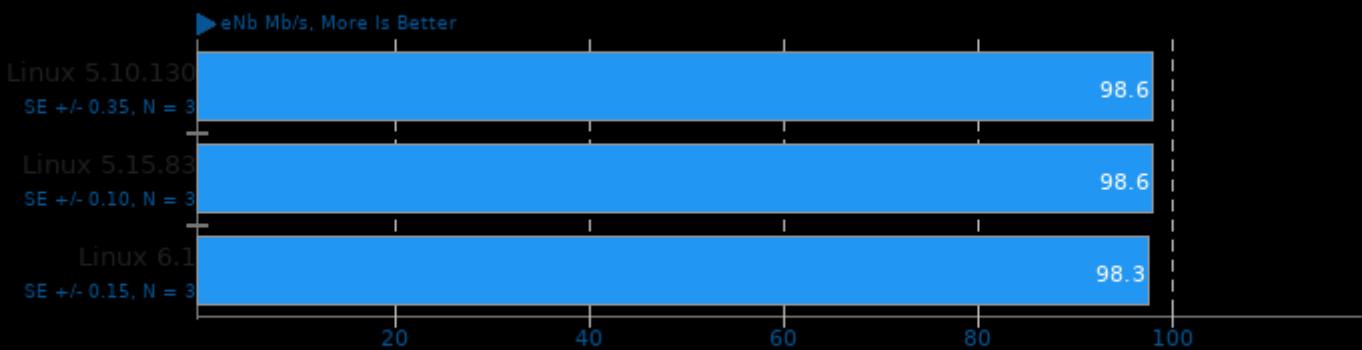
Test: 4G PHY_DL_Test 100 PRB SISO 256-QAM



1. (CXX) g++ options: -std=c++14 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 22.04.1

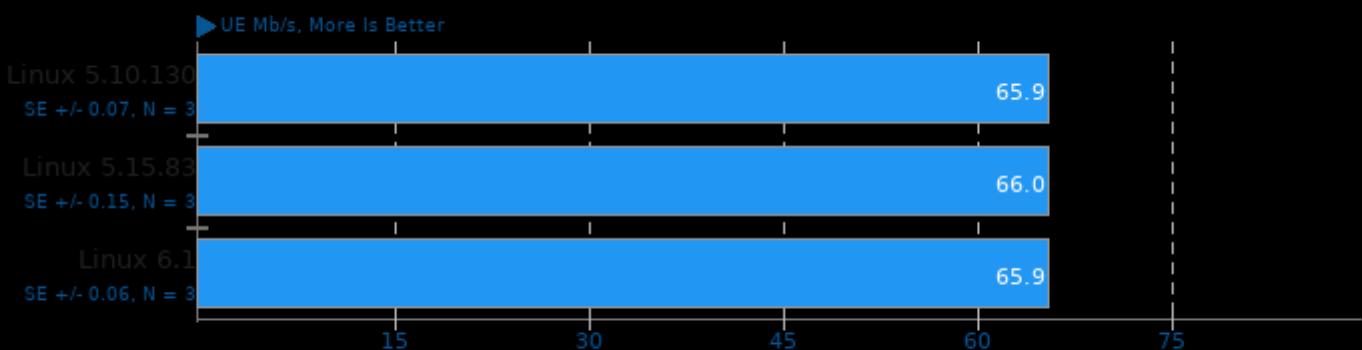
Test: 5G PHY_DL_NR Test 52 PRB SISO 64-QAM



1. (CXX) g++ options: -std=c++14 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 22.04.1

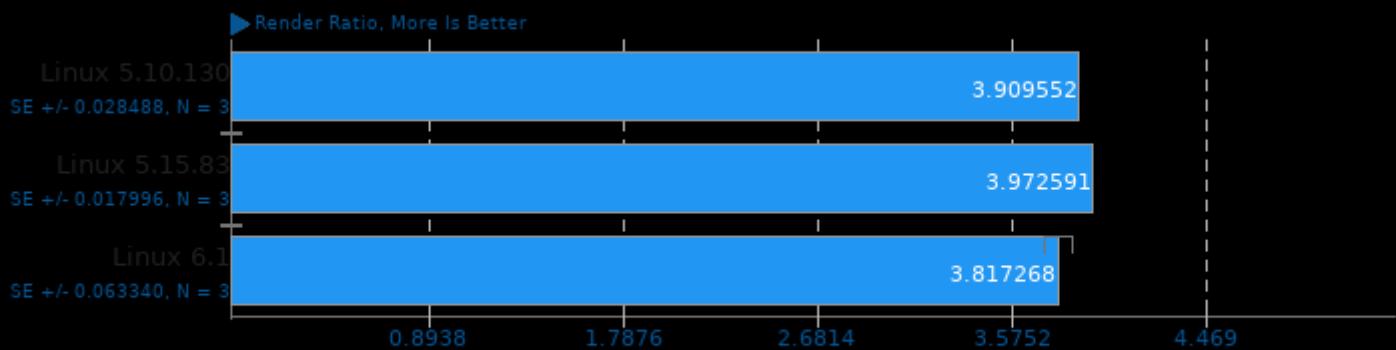
Test: 5G PHY_DL_NR Test 52 PRB SISO 64-QAM



1. (CXX) g++ options: -std=c++14 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

Stargate Digital Audio Workstation 22.11.5

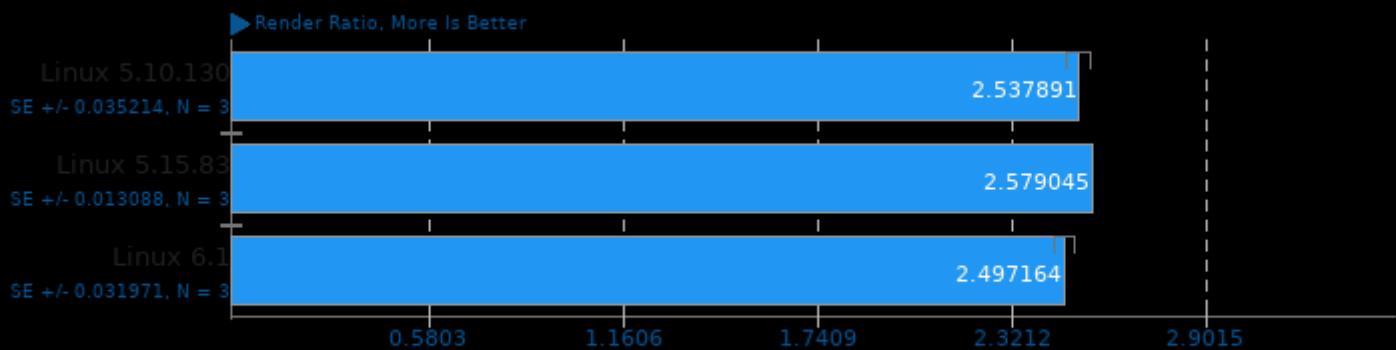
Sample Rate: 44100 - Buffer Size: 512



1. (CXX) g++ options: -lpthread -lsndfile -lm -O3 -march=native -ffast-math -funroll-loops -fstrength-reduce -fstrict-aliasing -finline-functions

Stargate Digital Audio Workstation 22.11.5

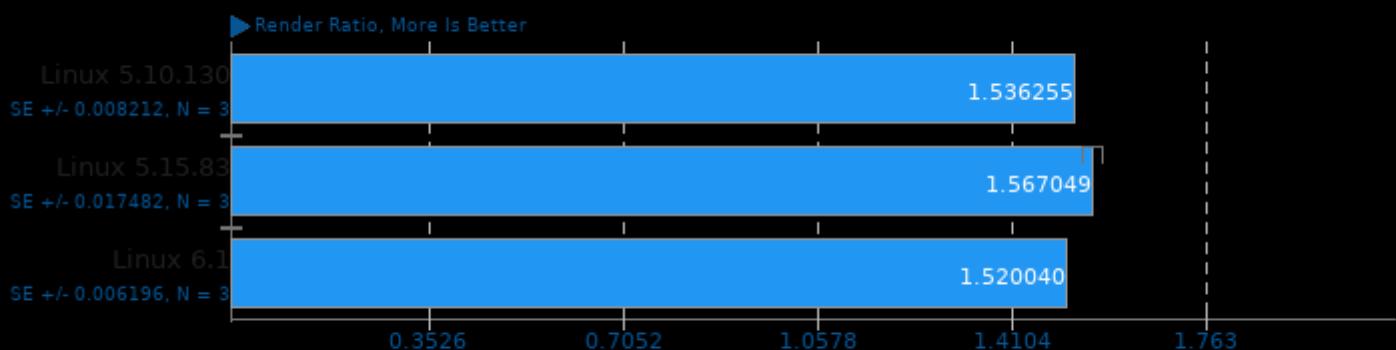
Sample Rate: 96000 - Buffer Size: 512



1. (CXX) g++ options: -lpthread -lsndfile -lm -O3 -march=native -ffast-math -funroll-loops -fstrength-reduce -fstrict-aliasing -finline-functions

Stargate Digital Audio Workstation 22.11.5

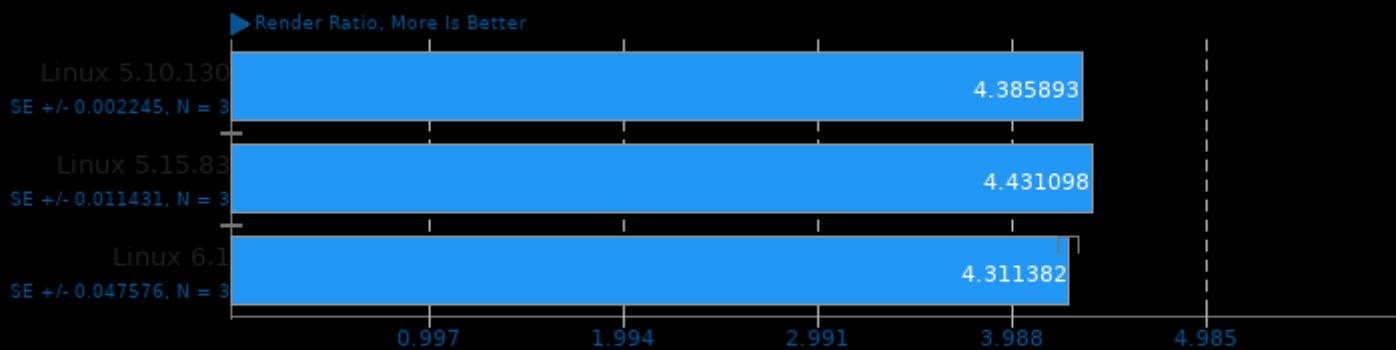
Sample Rate: 192000 - Buffer Size: 512



1. (CXX) g++ options: -lpthread -lsndfile -lm -O3 -march=native -ffast-math -funroll-loops -fstrength-reduce -fstrict-aliasing -finline-functions

Stargate Digital Audio Workstation 22.11.5

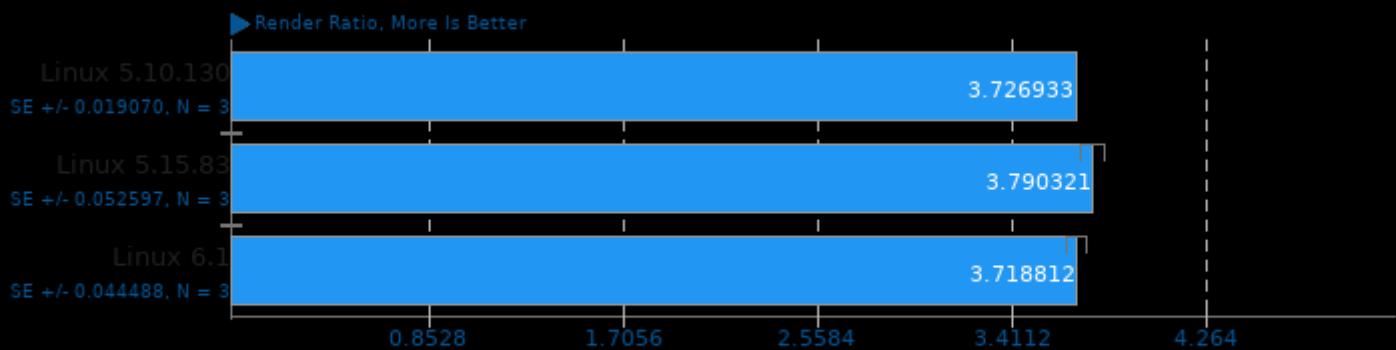
Sample Rate: 44100 - Buffer Size: 1024



1. (CXX) g++ options: -lpthread -lsndfile -lm -O3 -march=native -ffast-math -funroll-loops -fstrength-reduce -fstrict-aliasing -finline-functions

Stargate Digital Audio Workstation 22.11.5

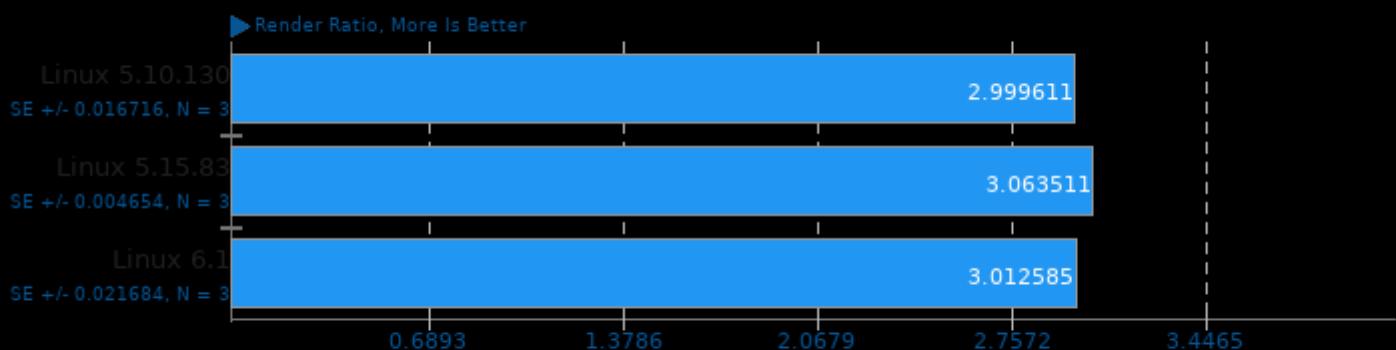
Sample Rate: 480000 - Buffer Size: 512



1. (CXX) g++ options: -lpthread -lsndfile -lm -O3 -march=native -ffast-math -funroll-loops -fstrength-reduce -fstrict-aliasing -finline-functions

Stargate Digital Audio Workstation 22.11.5

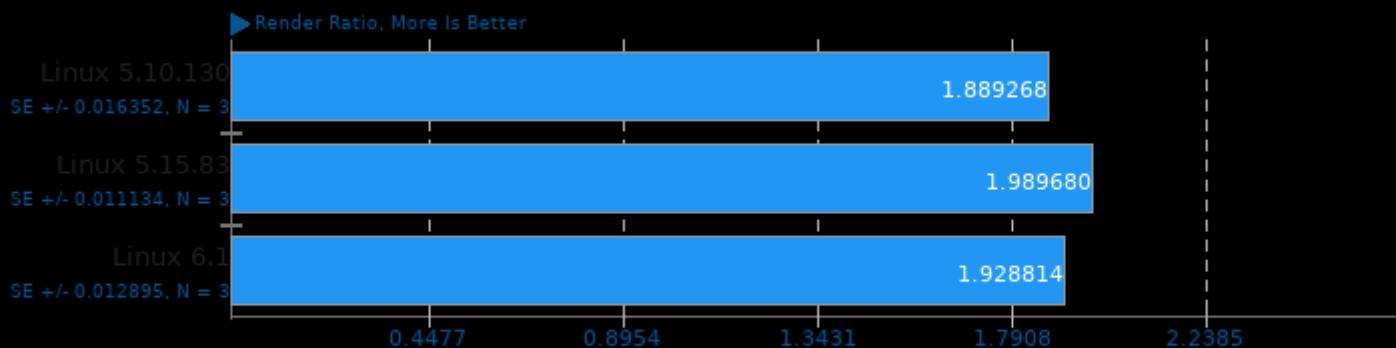
Sample Rate: 96000 - Buffer Size: 1024



1. (CXX) g++ options: -lpthread -lsndfile -lm -O3 -march=native -ffast-math -funroll-loops -fstrength-reduce -fstrict-aliasing -finline-functions

Stargate Digital Audio Workstation 22.11.5

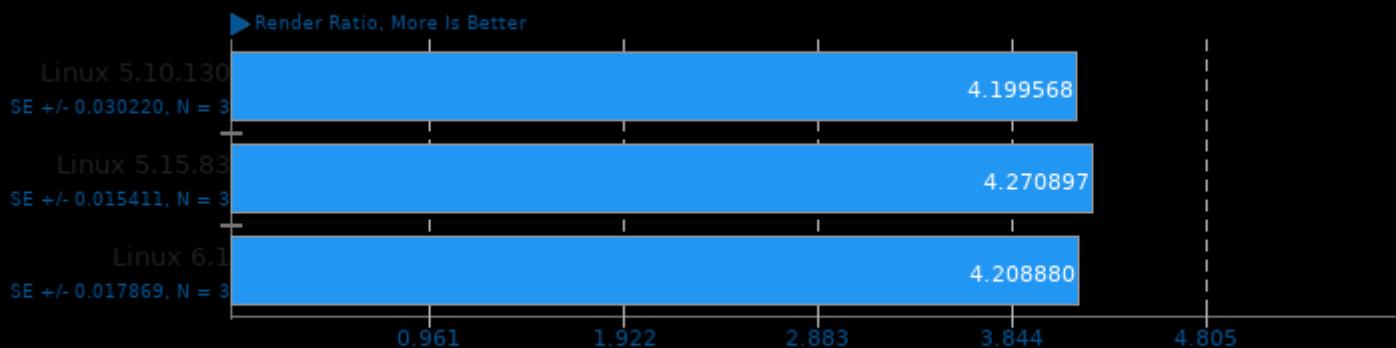
Sample Rate: 192000 - Buffer Size: 1024



1. (CXX) g++ options: -lpthread -lsndfile -lm -O3 -march=native -ffast-math -funroll-loops -fstrength-reduce -fstrict-aliasing -finline-functions

Stargate Digital Audio Workstation 22.11.5

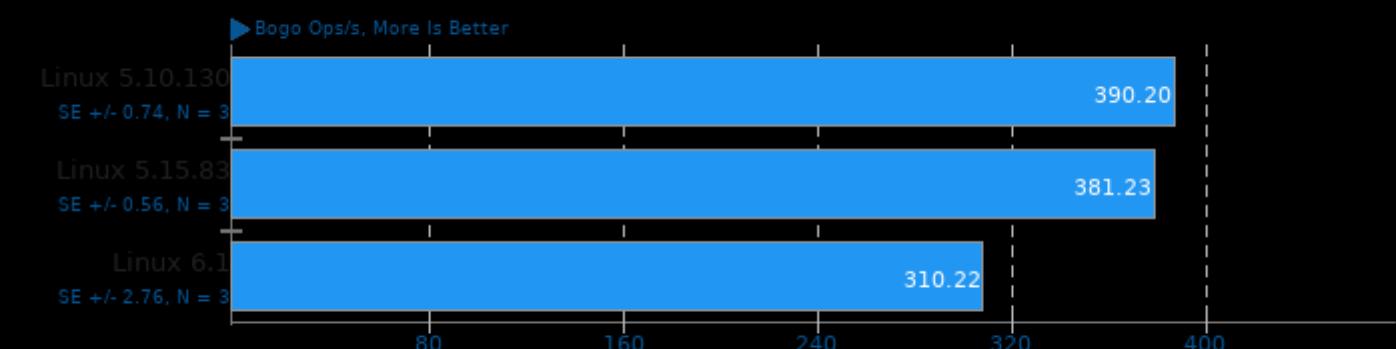
Sample Rate: 480000 - Buffer Size: 1024



1. (CXX) g++ options: -lpthread -lsndfile -lm -O3 -march=native -ffast-math -funroll-loops -fstrength-reduce -fstrict-aliasing -finline-functions

Stress-NG 0.14.06

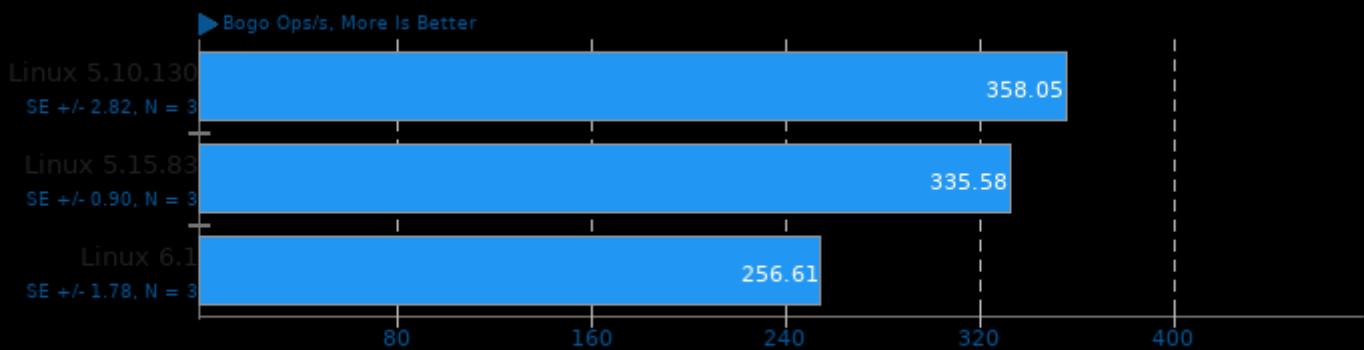
Test: MMAP



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-lld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

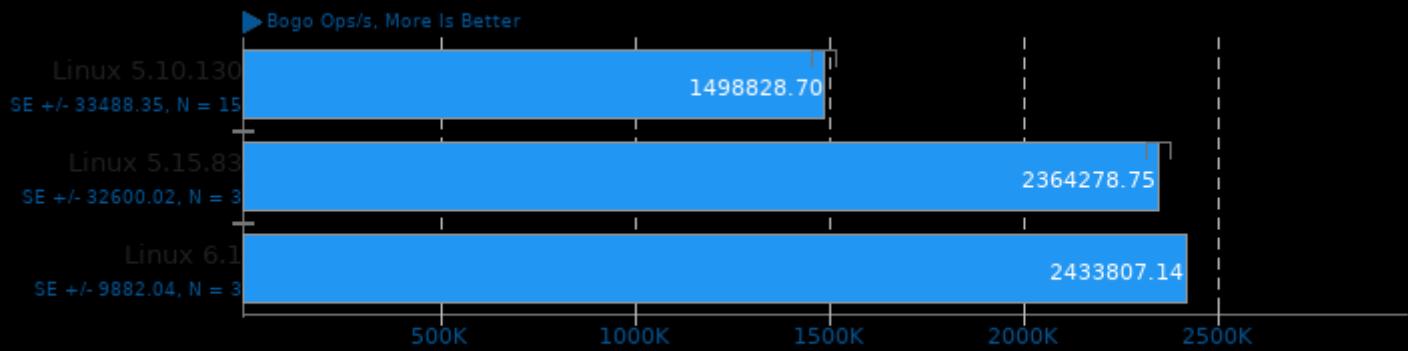
Test: NUMA



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

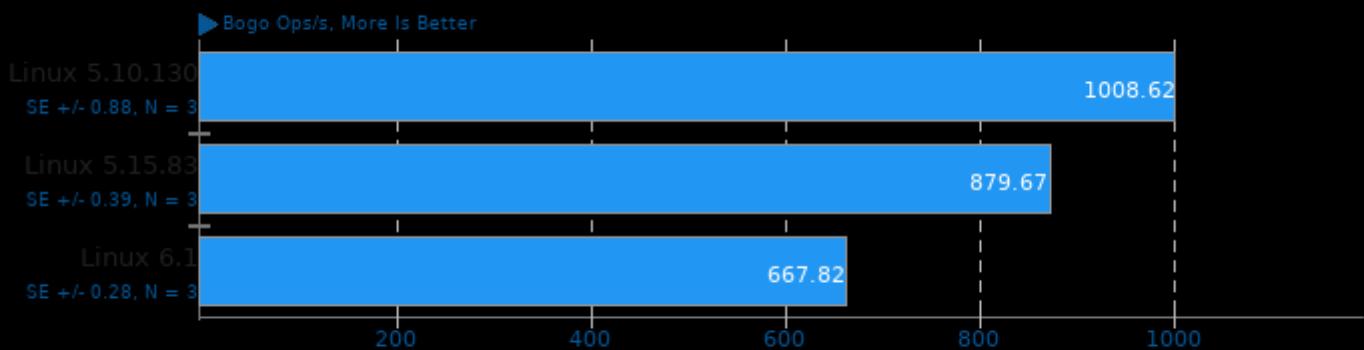
Test: Futex



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

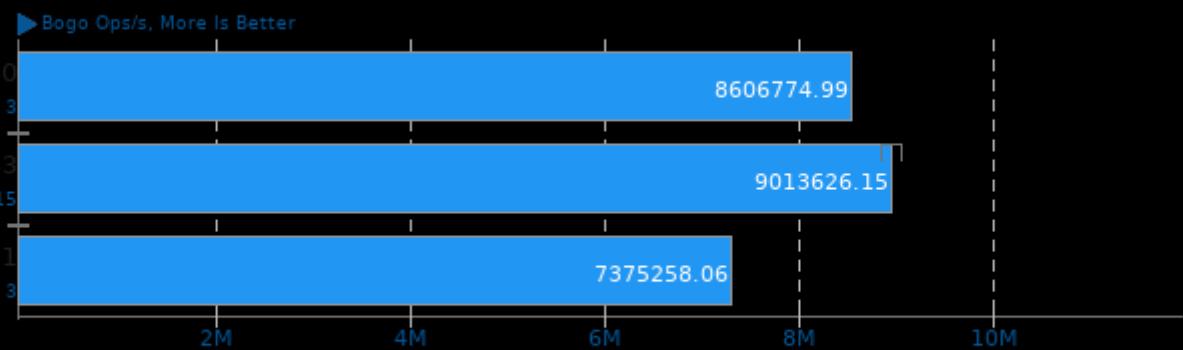
Test: MEMFD



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

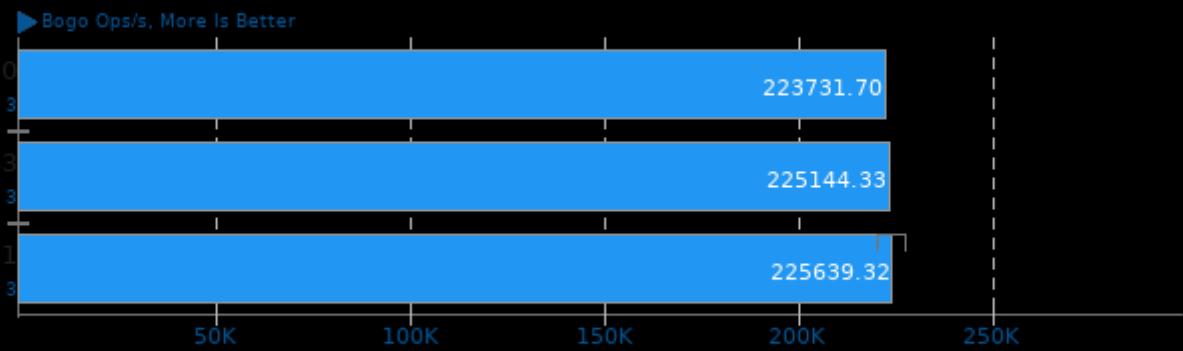
Test: Mutex



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

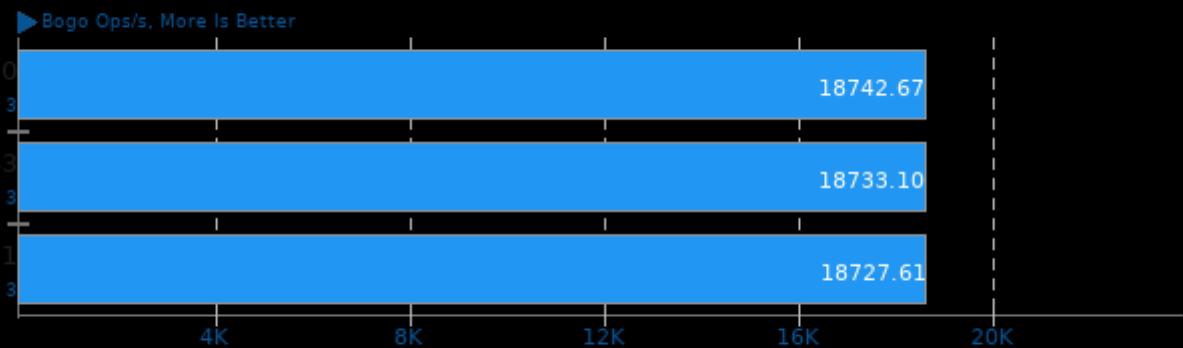
Test: Atomic



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

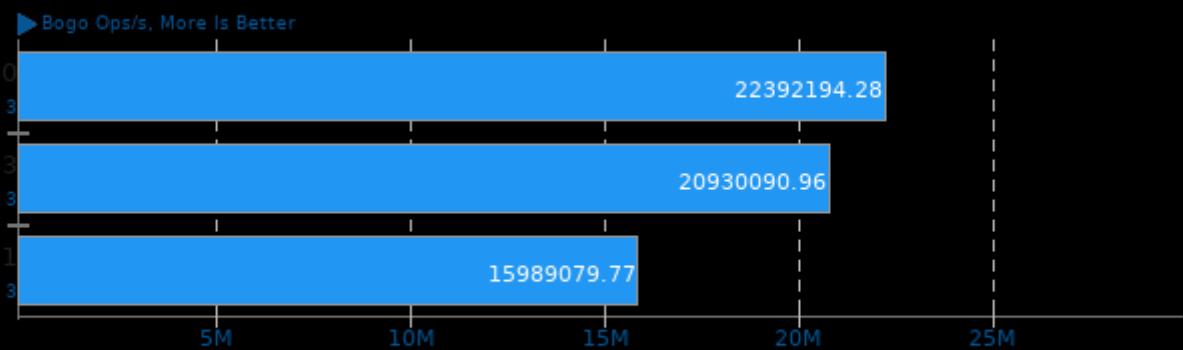
Test: Crypto



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

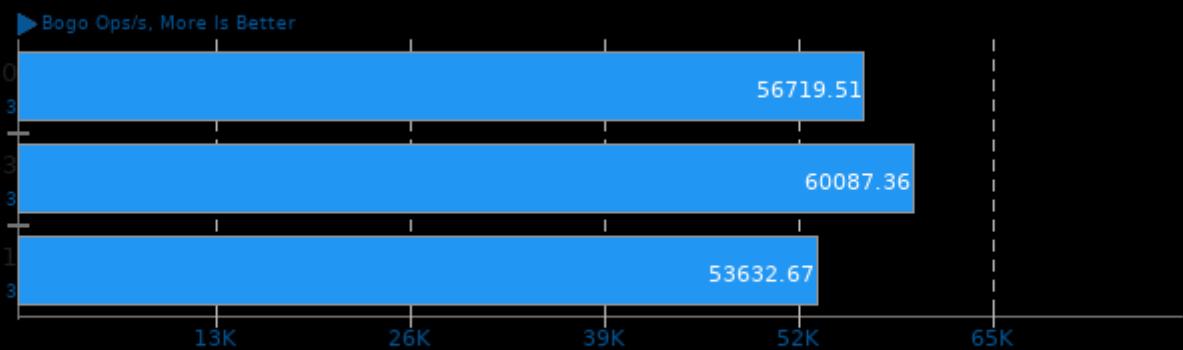
Test: Malloc



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

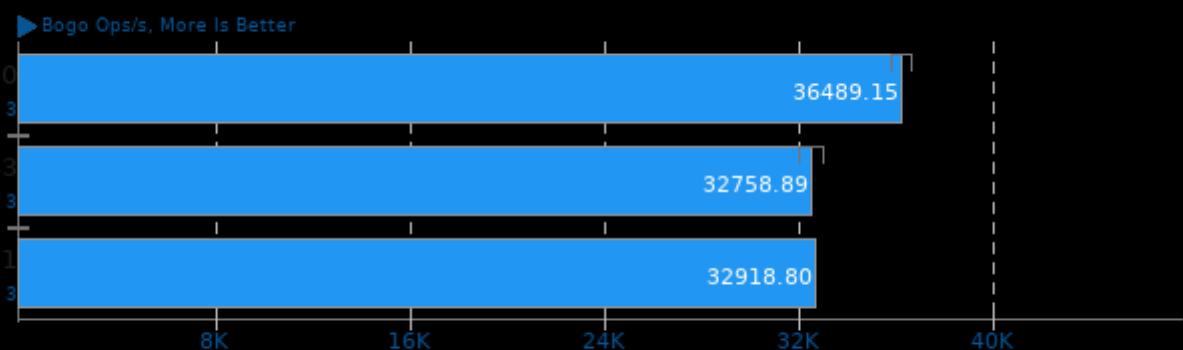
Test: Forking



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

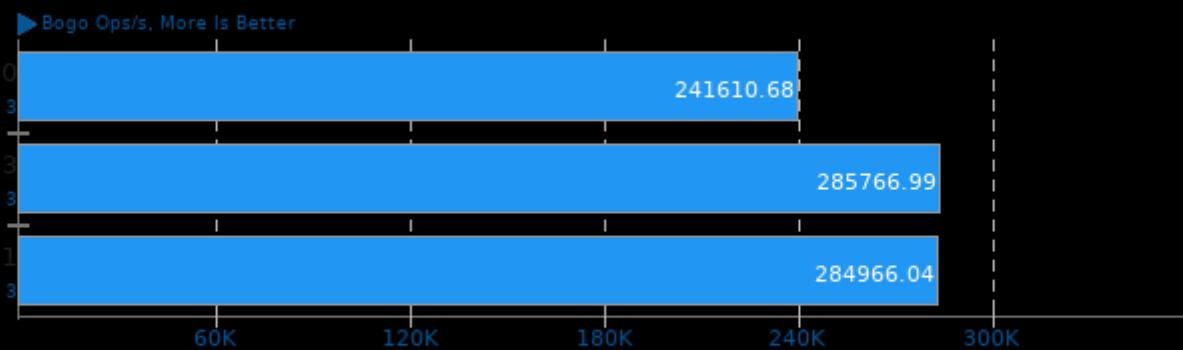
Test: IO_uring



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

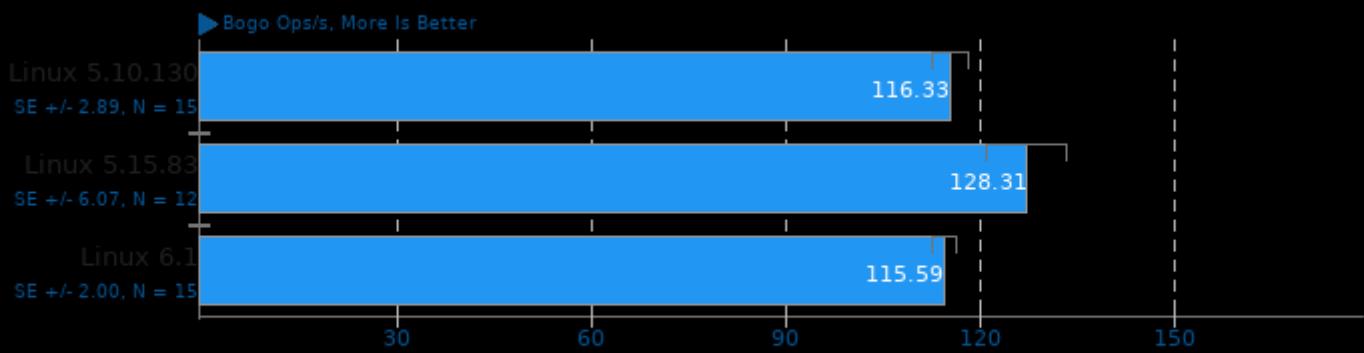
Test: SENDFILE



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

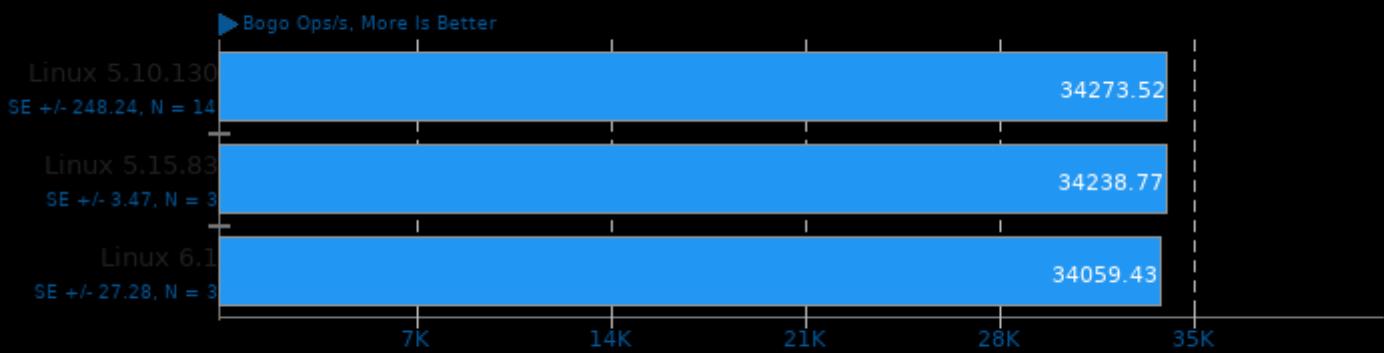
Test: CPU Cache



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

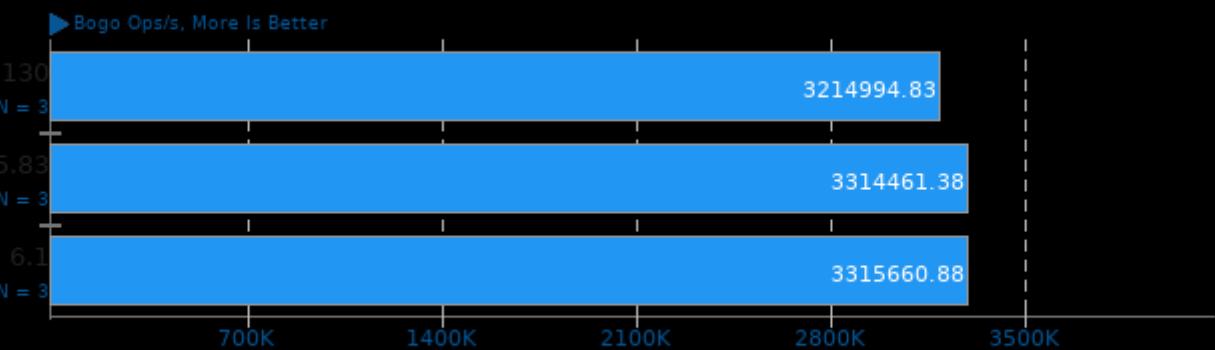
Test: CPU Stress



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

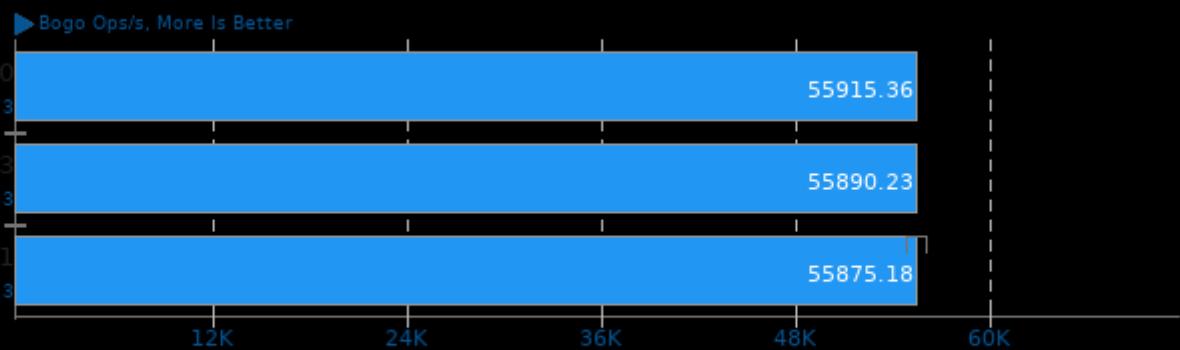
Test: Semaphores



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

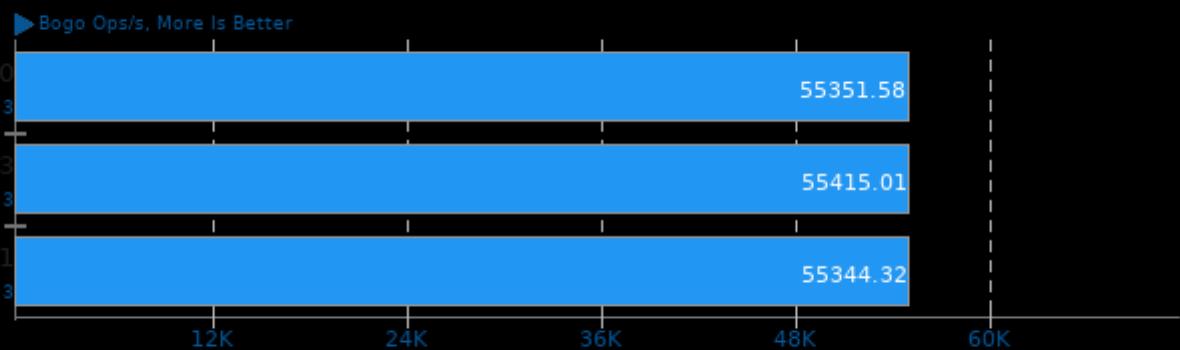
Test: Matrix Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

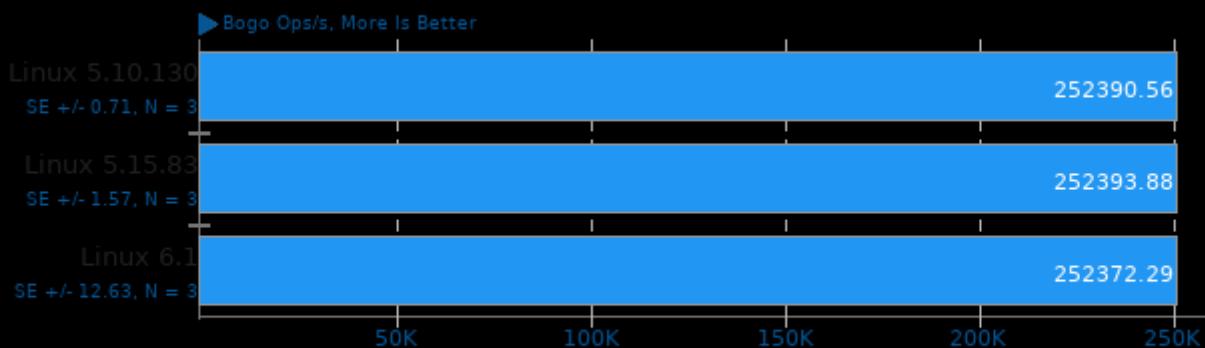
Test: Vector Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

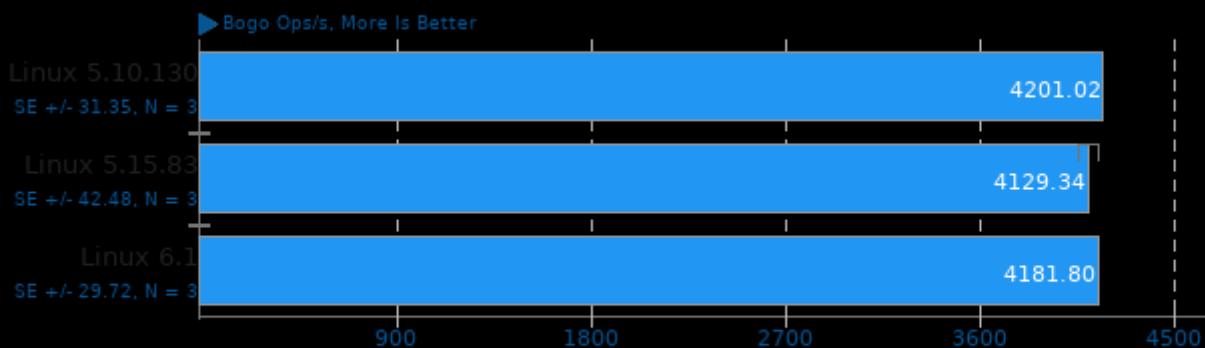
Test: x86_64 RdRand



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

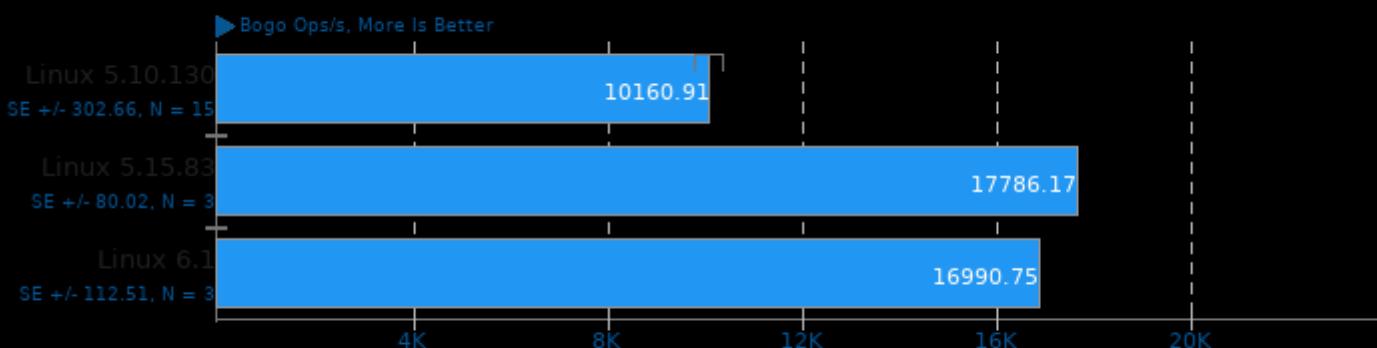
Test: Memory Copying



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

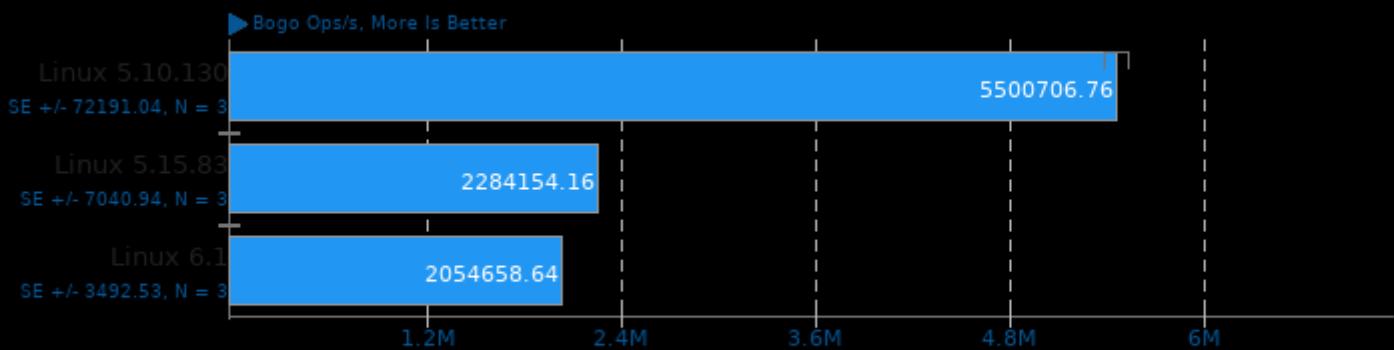
Test: Socket Activity



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

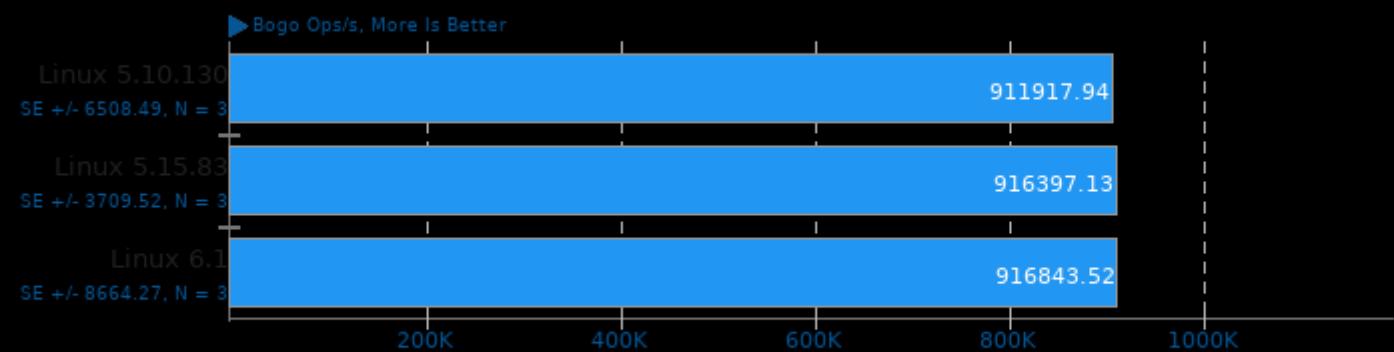
Test: Context Switching



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

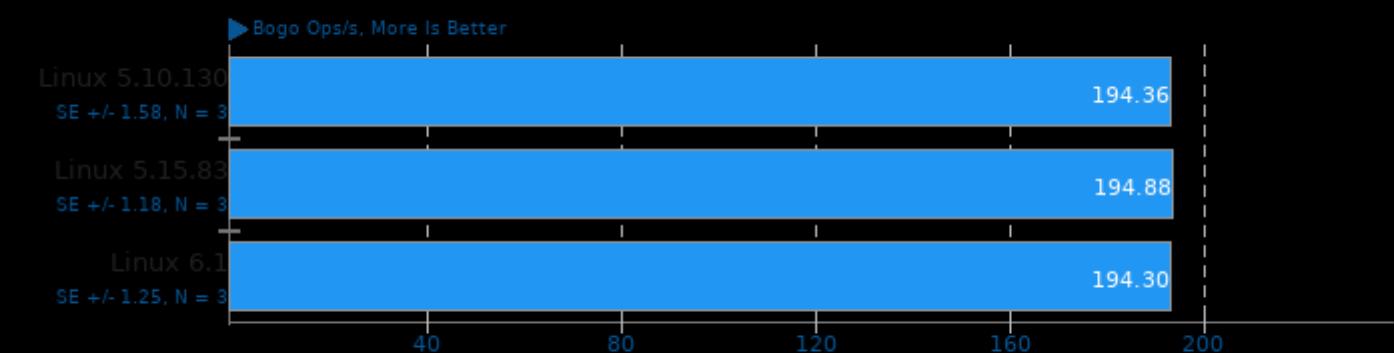
Test: Glibc C String Functions



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

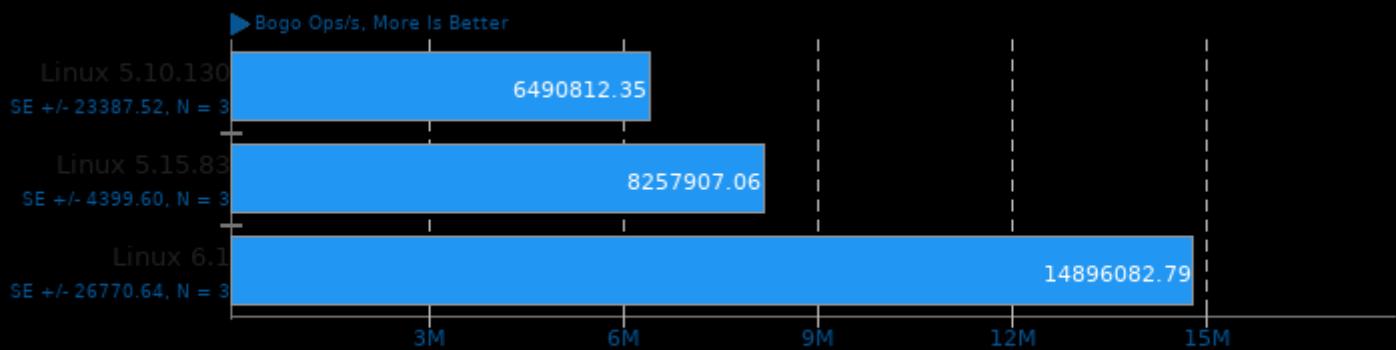
Test: Glibc Qsort Data Sorting



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-ld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -IGLESv2 -ljpeg -lrt -lsctp -lz -pthread

Stress-NG 0.14.06

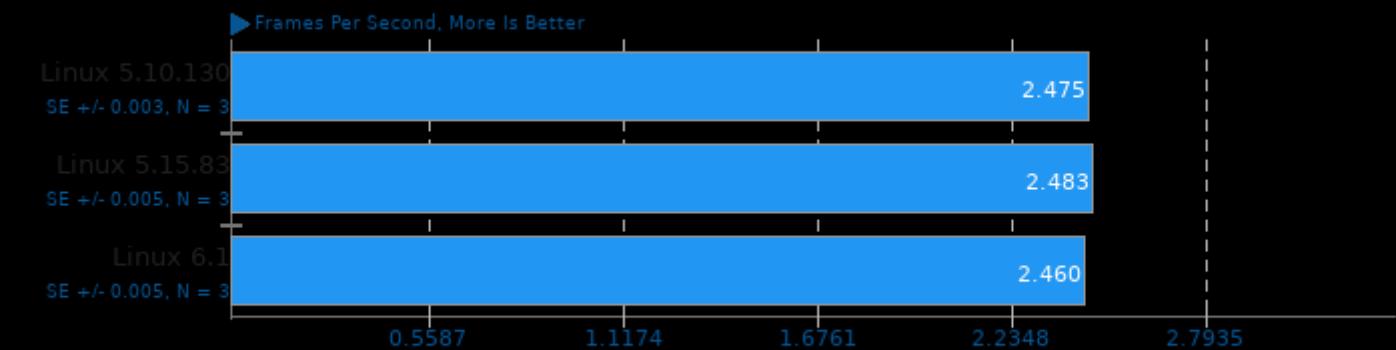
Test: System V Message Passing



1. (CC) gcc options: -O2 -std=gnu99 -lm -fuse-lld=gold -laio -lapparmor -latomic -lbsd -lc -lcrypt -ldl -lEGL -lGLESv2 -ljpeg -lrt -lsctp -lz -pthread

SVT-AV1 1.4

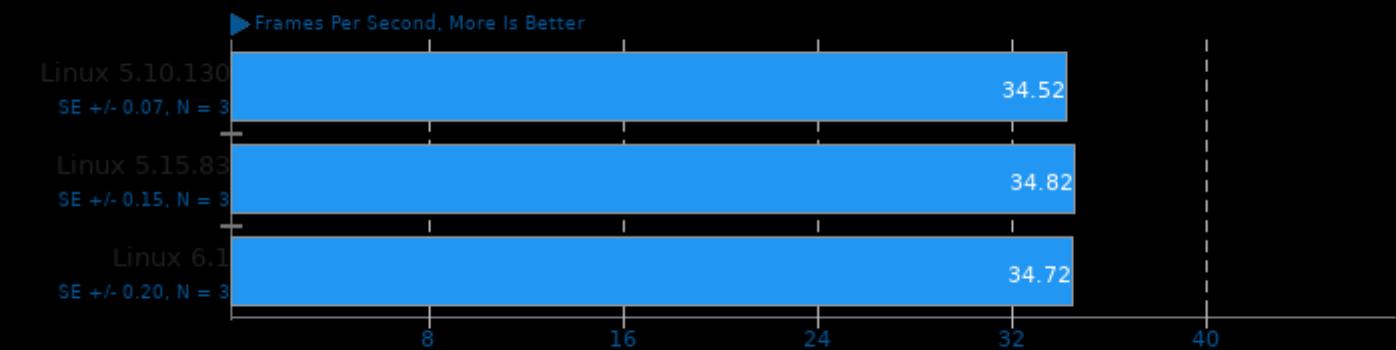
Encoder Mode: Preset 4 - Input: Bosphorus 4K



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

SVT-AV1 1.4

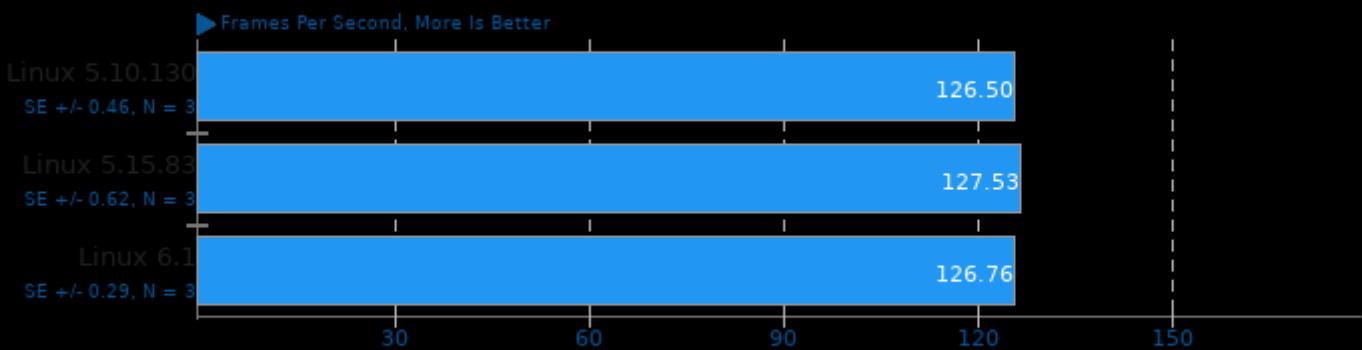
Encoder Mode: Preset 8 - Input: Bosphorus 4K



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

SVT-AV1 1.4

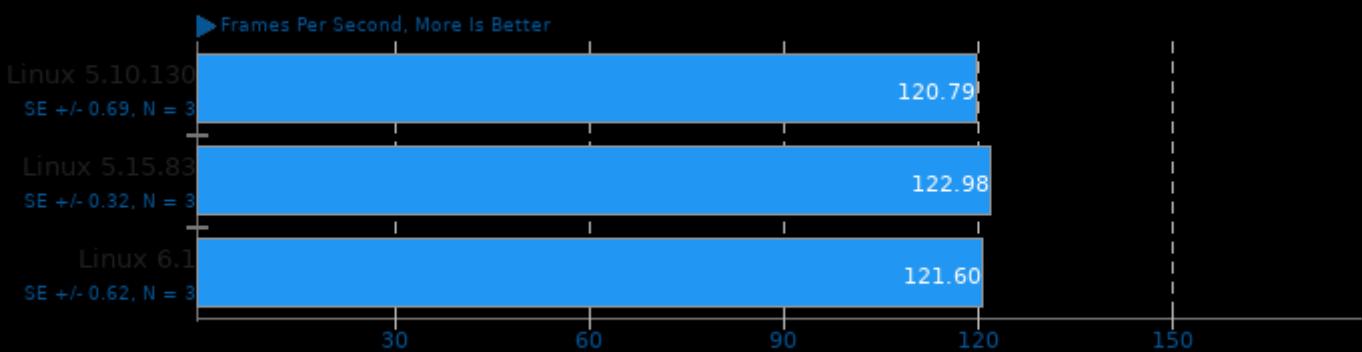
Encoder Mode: Preset 12 - Input: Bosphorus 4K



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

SVT-AV1 1.4

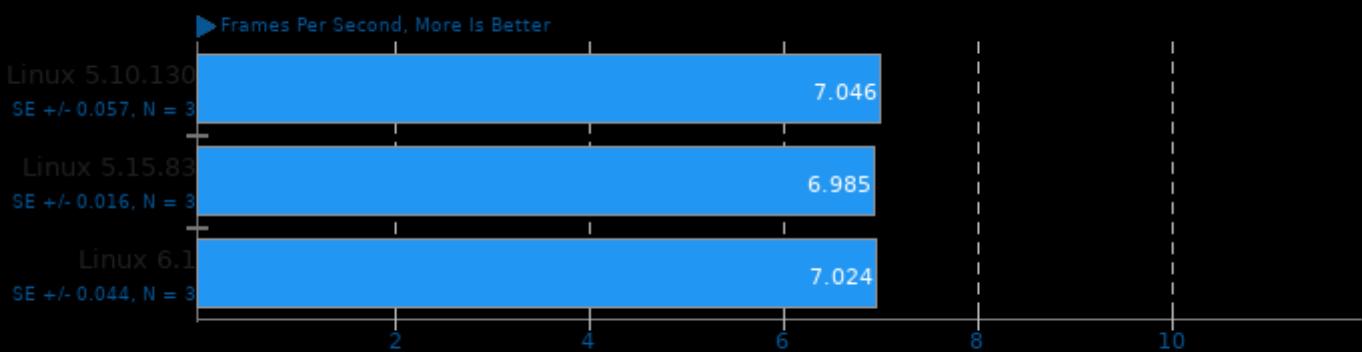
Encoder Mode: Preset 13 - Input: Bosphorus 4K



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

SVT-AV1 1.4

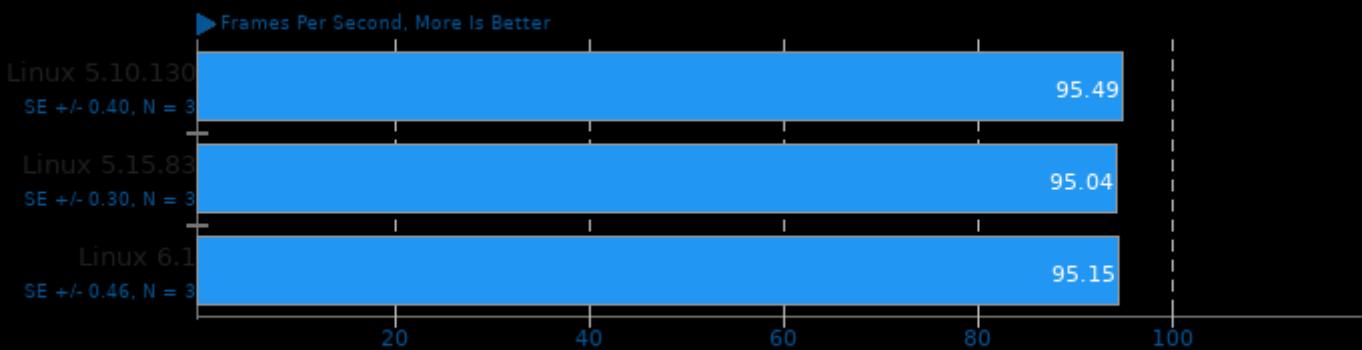
Encoder Mode: Preset 4 - Input: Bosphorus 1080p



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

SVT-AV1 1.4

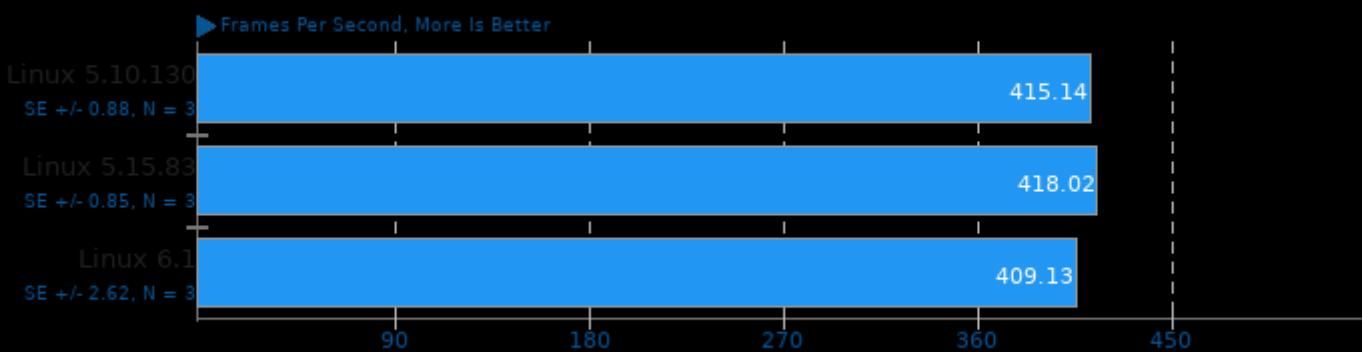
Encoder Mode: Preset 8 - Input: Bosphorus 1080p



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

SVT-AV1 1.4

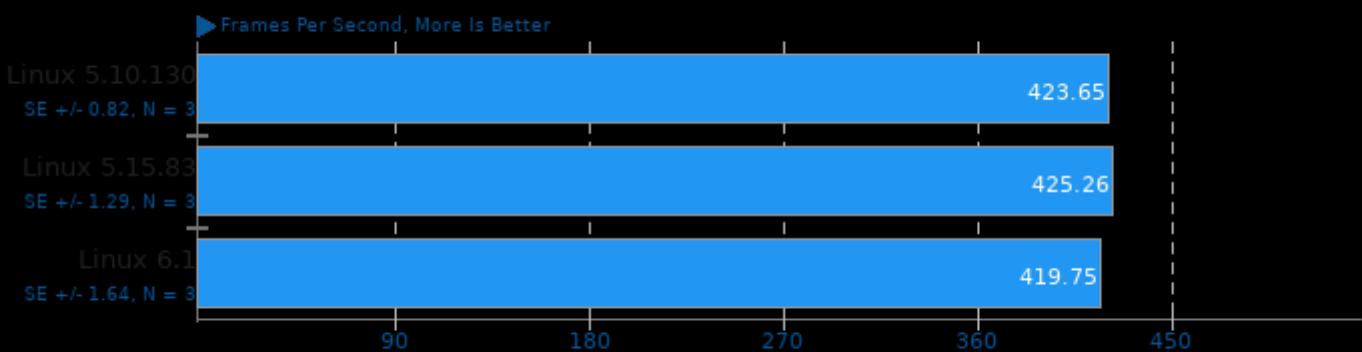
Encoder Mode: Preset 12 - Input: Bosphorus 1080p



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

SVT-AV1 1.4

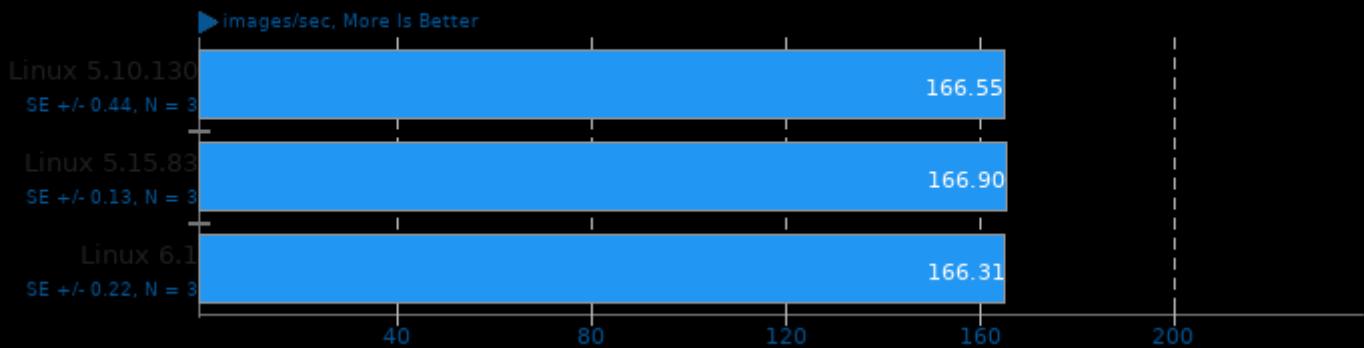
Encoder Mode: Preset 13 - Input: Bosphorus 1080p



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

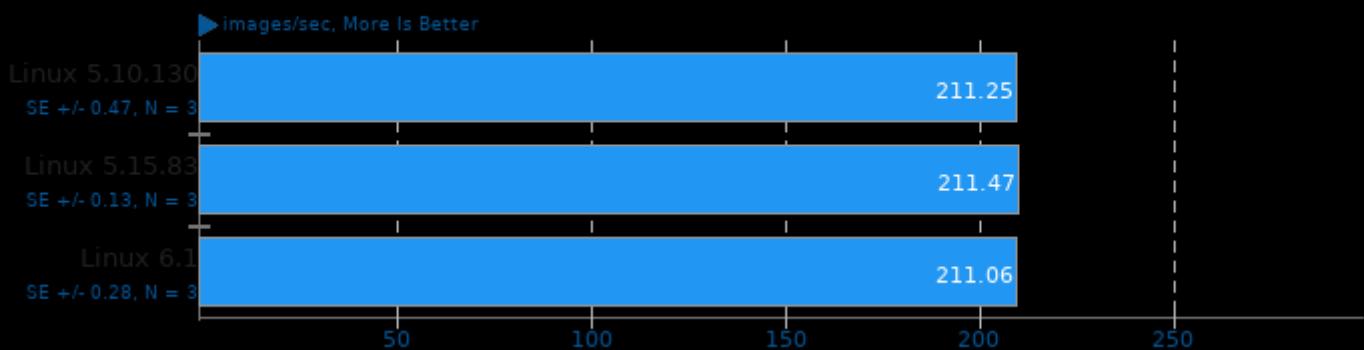
TensorFlow 2.10

Device: CPU - Batch Size: 16 - Model: AlexNet



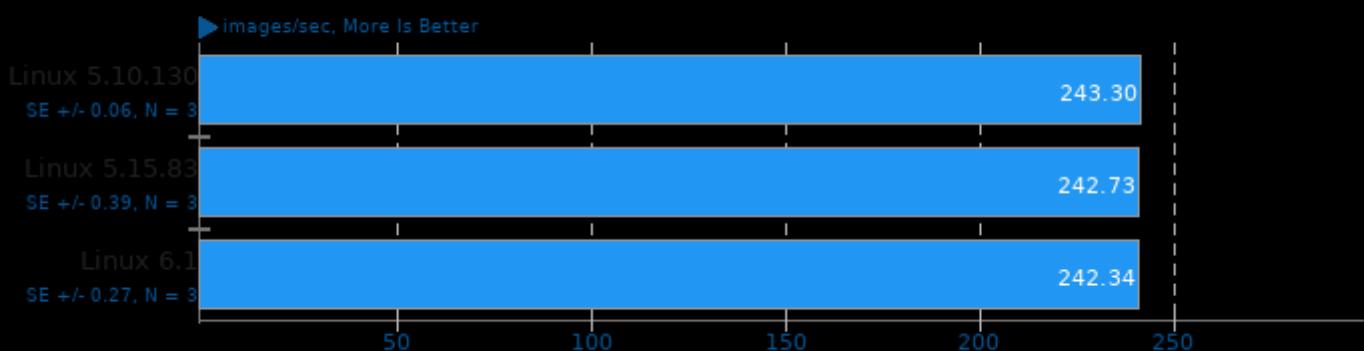
TensorFlow 2.10

Device: CPU - Batch Size: 32 - Model: AlexNet



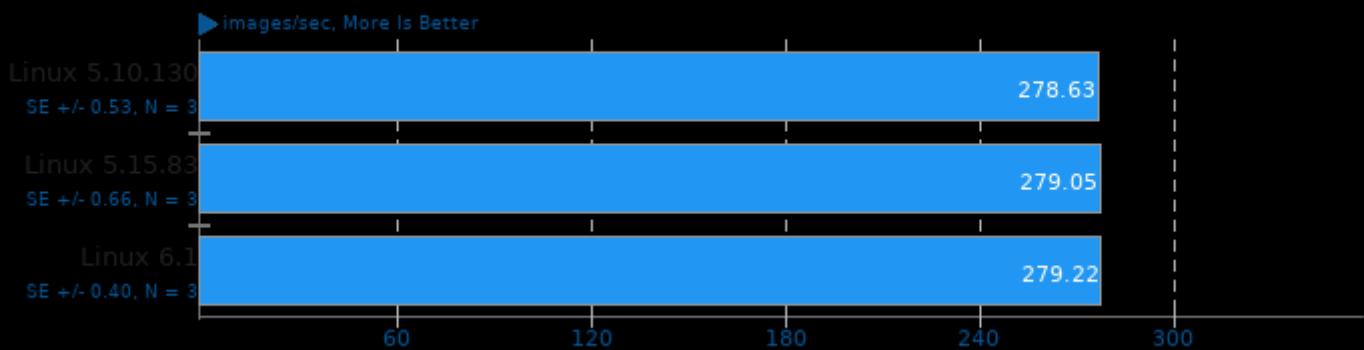
TensorFlow 2.10

Device: CPU - Batch Size: 64 - Model: AlexNet



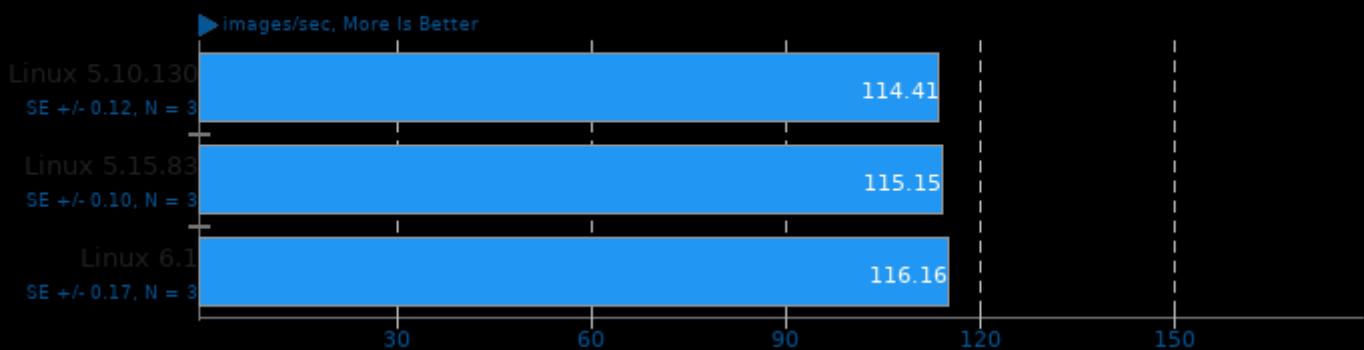
TensorFlow 2.10

Device: CPU - Batch Size: 256 - Model: AlexNet



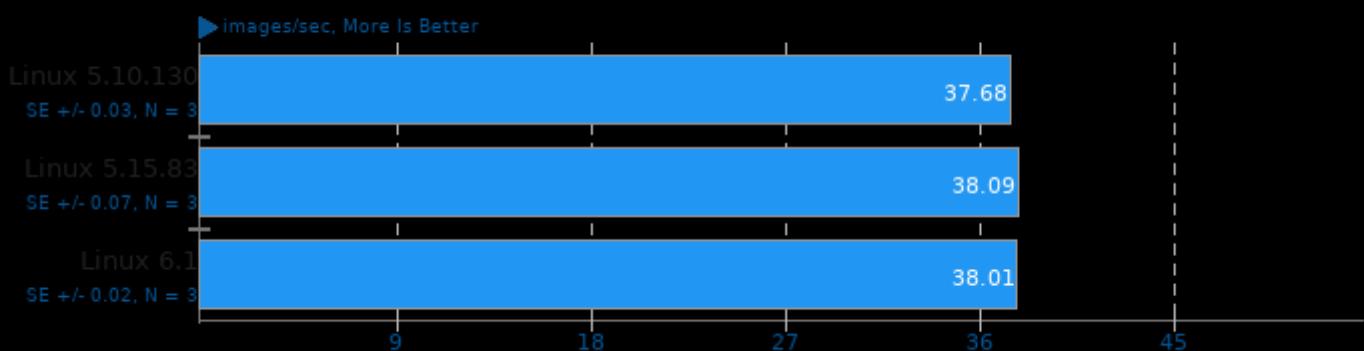
TensorFlow 2.10

Device: CPU - Batch Size: 16 - Model: GoogLeNet



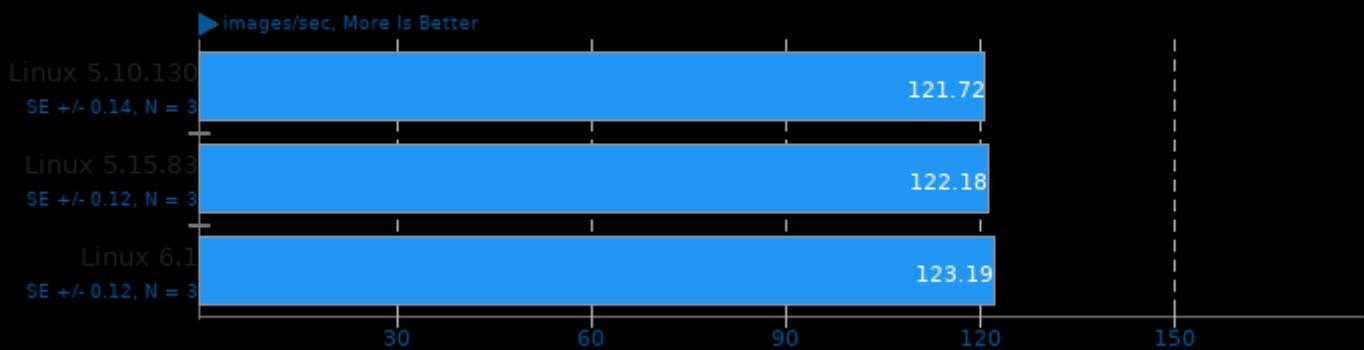
TensorFlow 2.10

Device: CPU - Batch Size: 16 - Model: ResNet-50



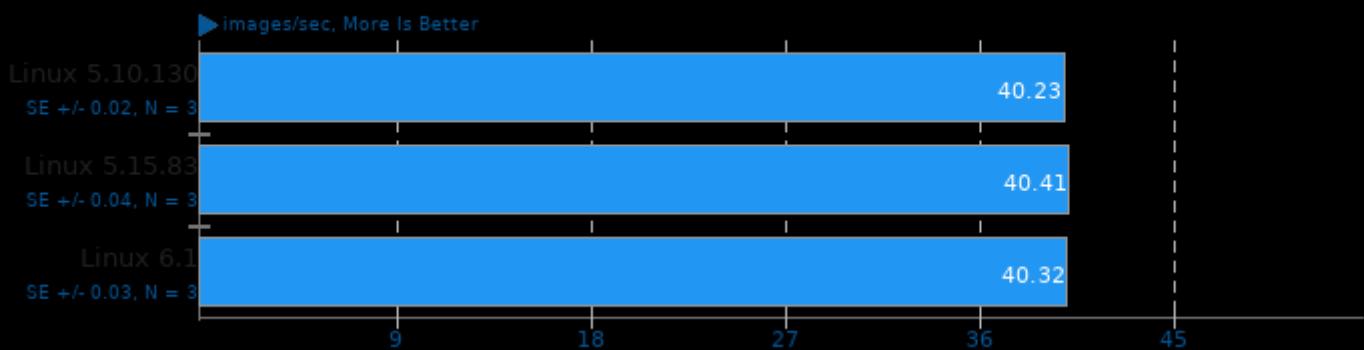
TensorFlow 2.10

Device: CPU - Batch Size: 32 - Model: GoogLeNet



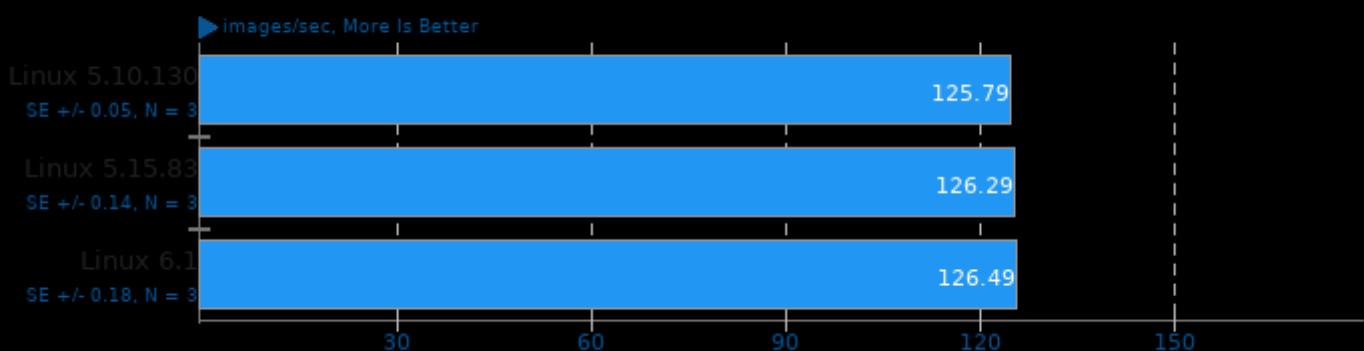
TensorFlow 2.10

Device: CPU - Batch Size: 32 - Model: ResNet-50



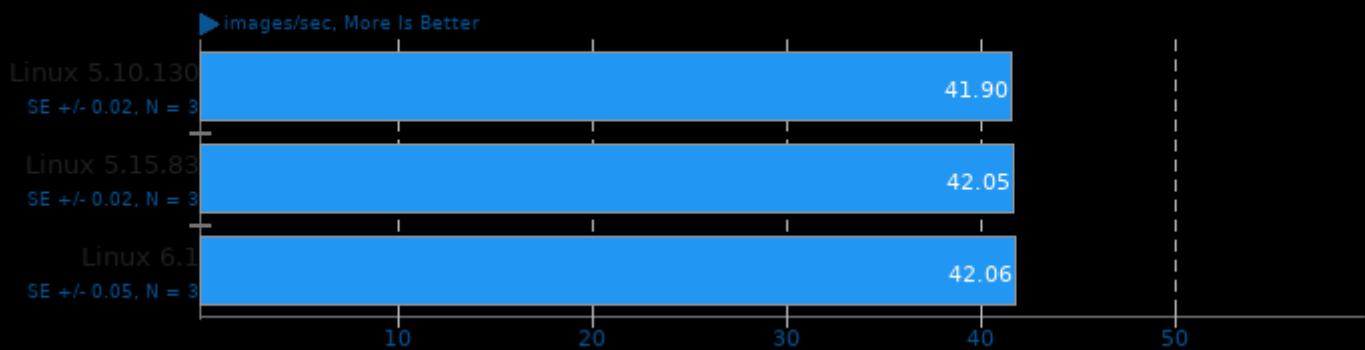
TensorFlow 2.10

Device: CPU - Batch Size: 64 - Model: GoogLeNet



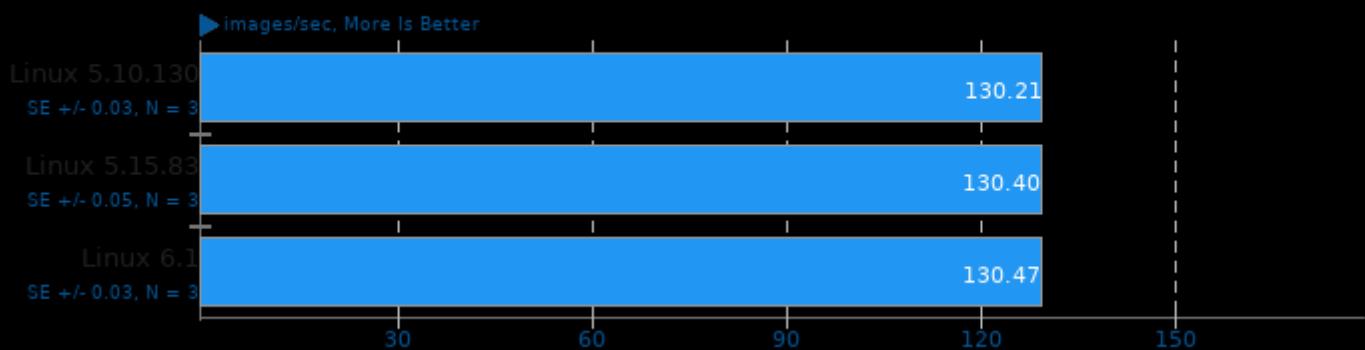
TensorFlow 2.10

Device: CPU - Batch Size: 64 - Model: ResNet-50



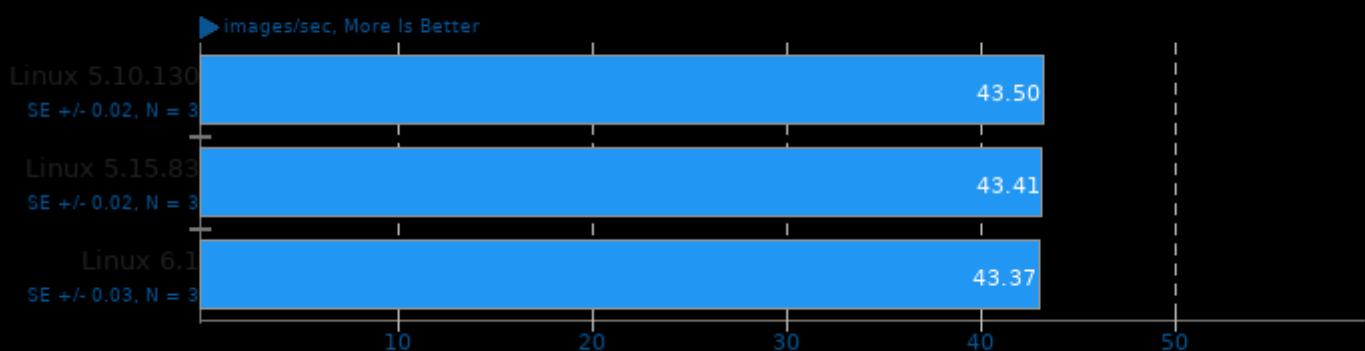
TensorFlow 2.10

Device: CPU - Batch Size: 256 - Model: GoogLeNet



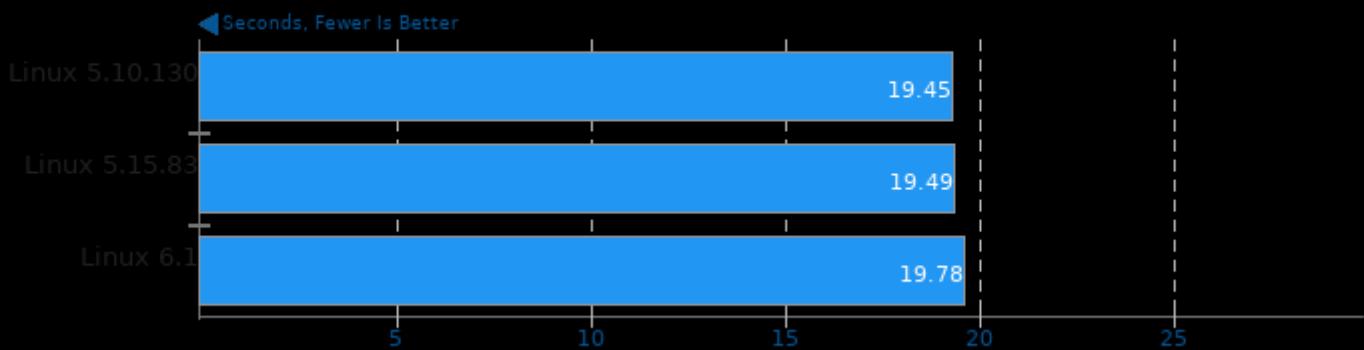
TensorFlow 2.10

Device: CPU - Batch Size: 256 - Model: ResNet-50



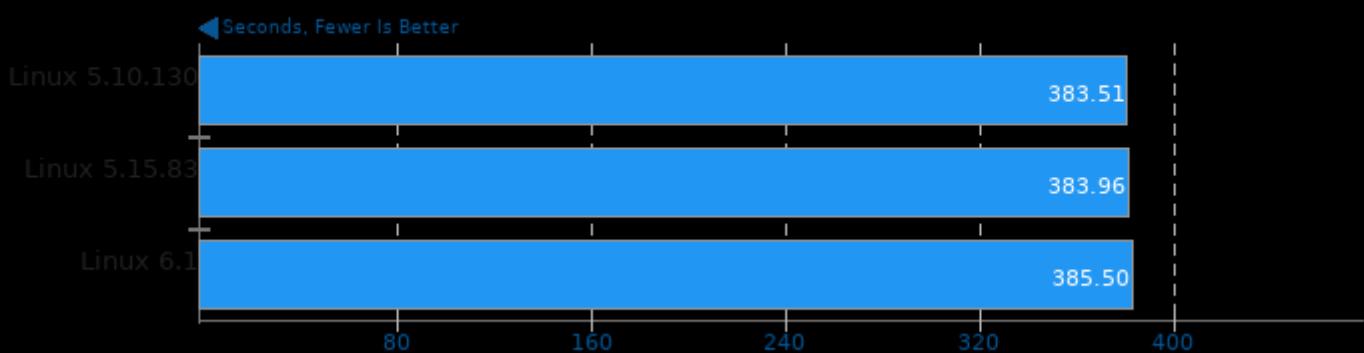
Timed CPython Compilation 3.10.6

Build Configuration: Default



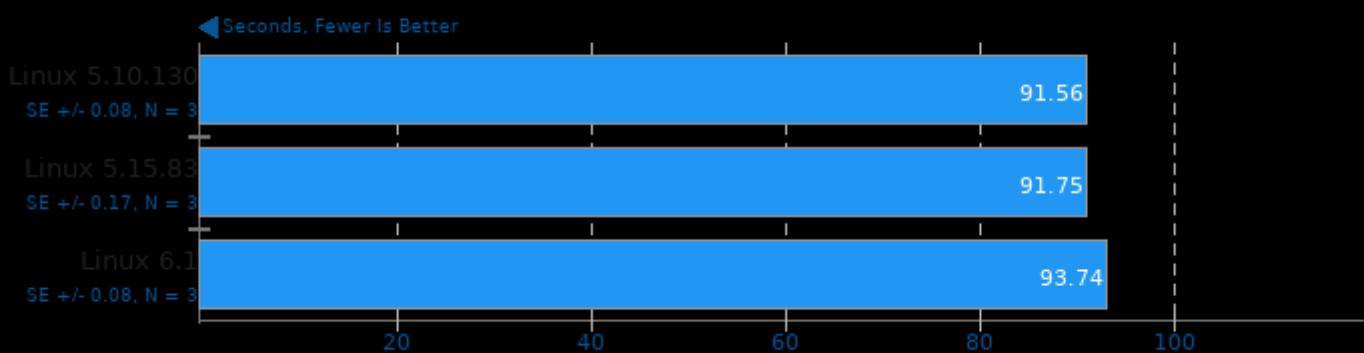
Timed CPython Compilation 3.10.6

Build Configuration: Released Build, PGO + LTO Optimized



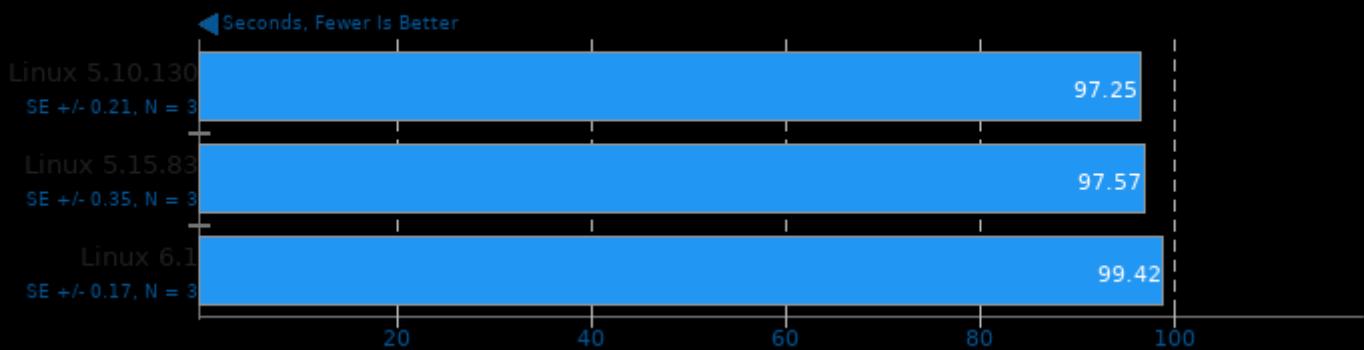
Timed Erlang/OTP Compilation 25.0

Time To Compile



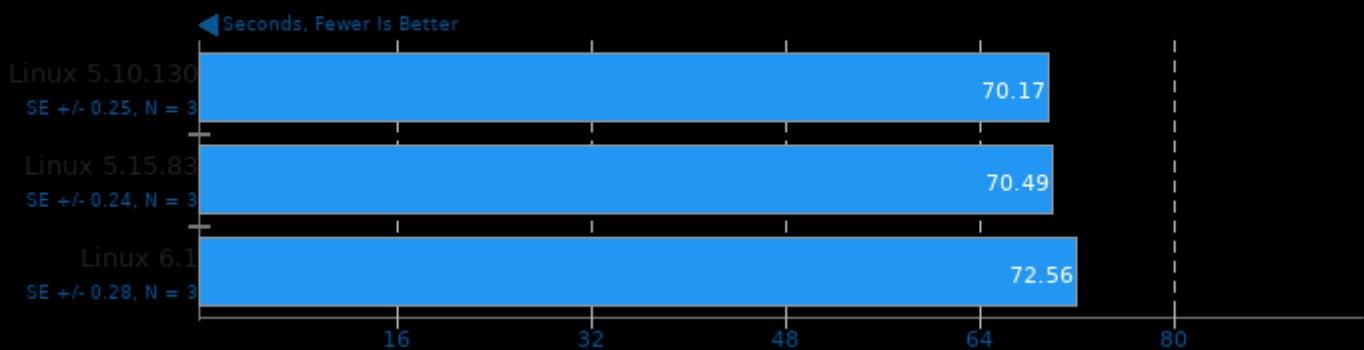
Timed Godot Game Engine Compilation 3.2.3

Time To Compile



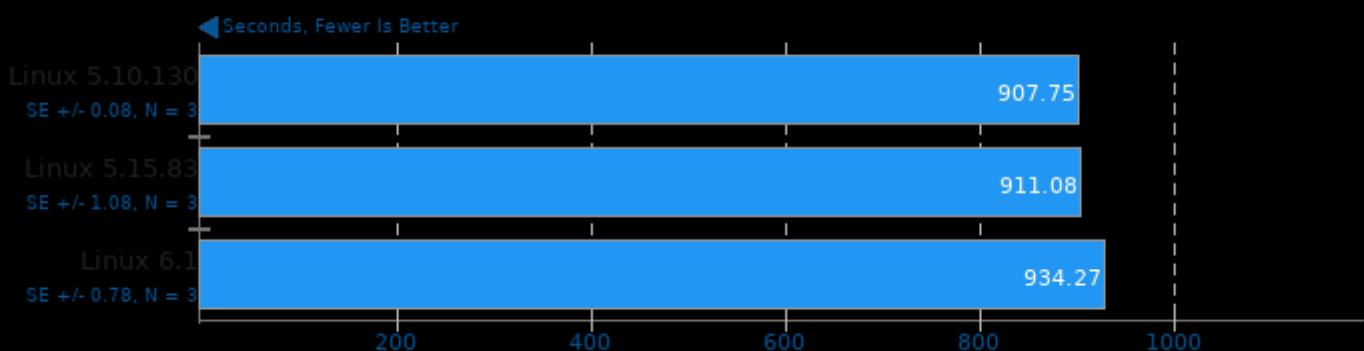
Timed Linux Kernel Compilation 6.1

Build: defconfig



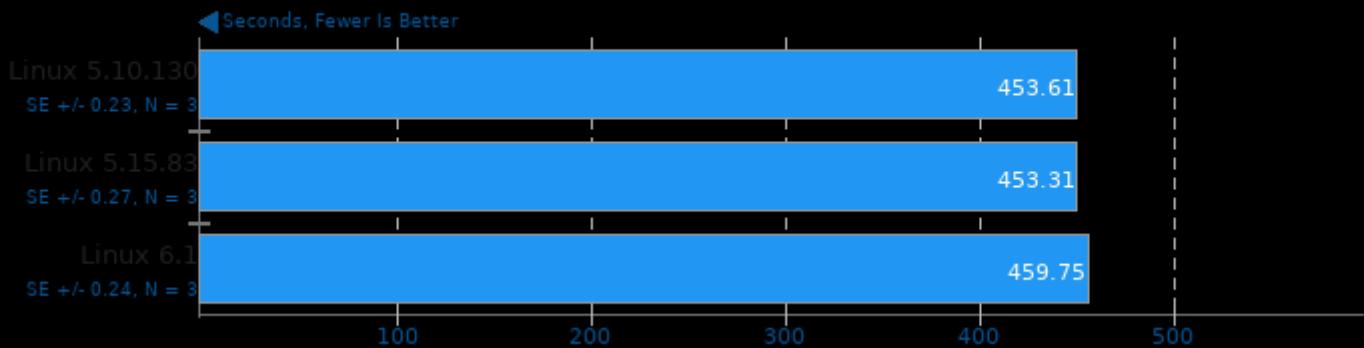
Timed Linux Kernel Compilation 6.1

Build: allmodconfig



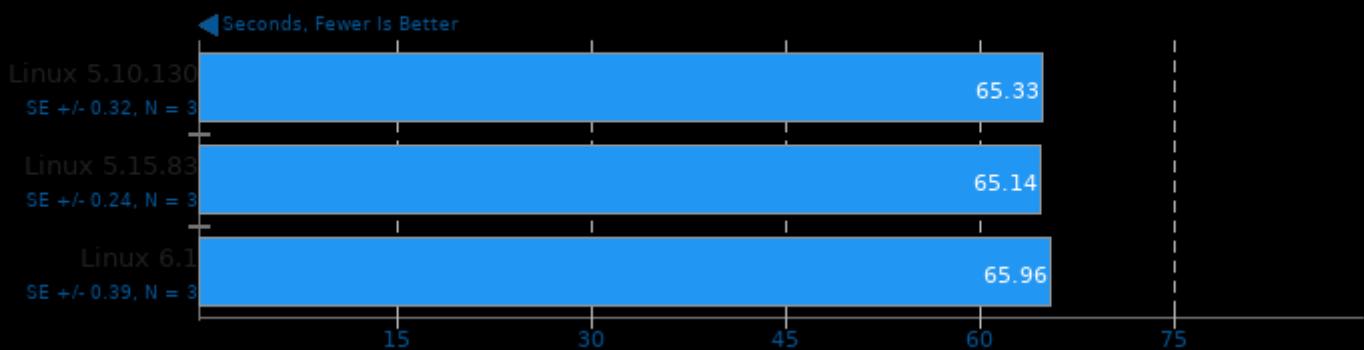
Timed Node.js Compilation 18.8

Time To Compile



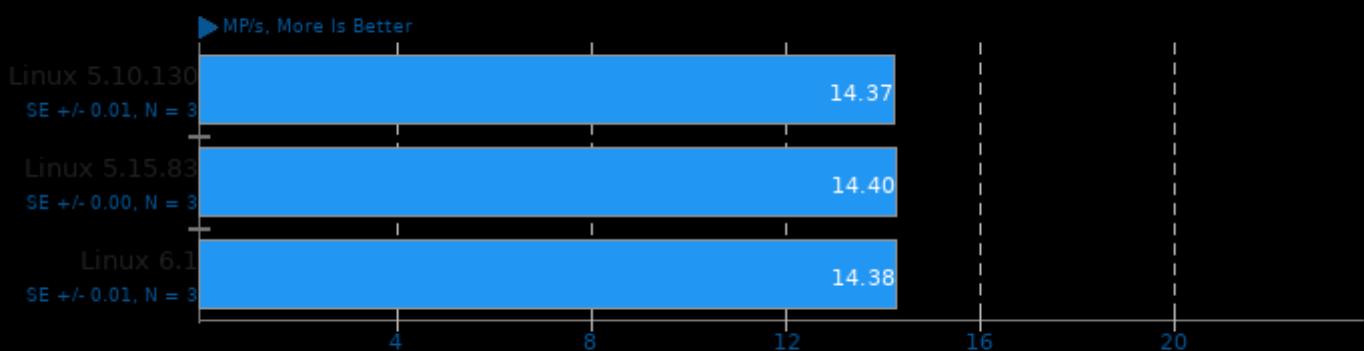
Timed PHP Compilation 8.1.9

Time To Compile



WebP Image Encode 1.2.4

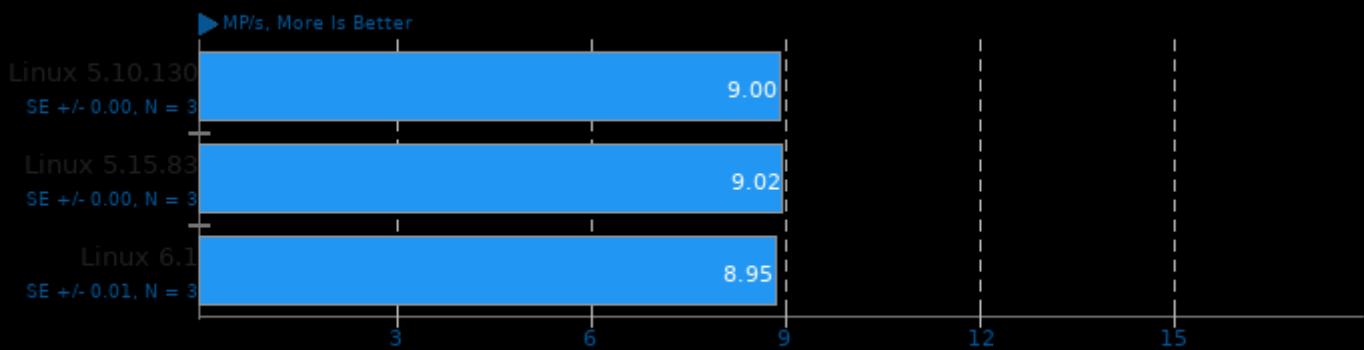
Encode Settings: Default



1. (CC) gcc options: -fvisibility=hidden -O2 -lm -pthread

WebP Image Encode 1.2.4

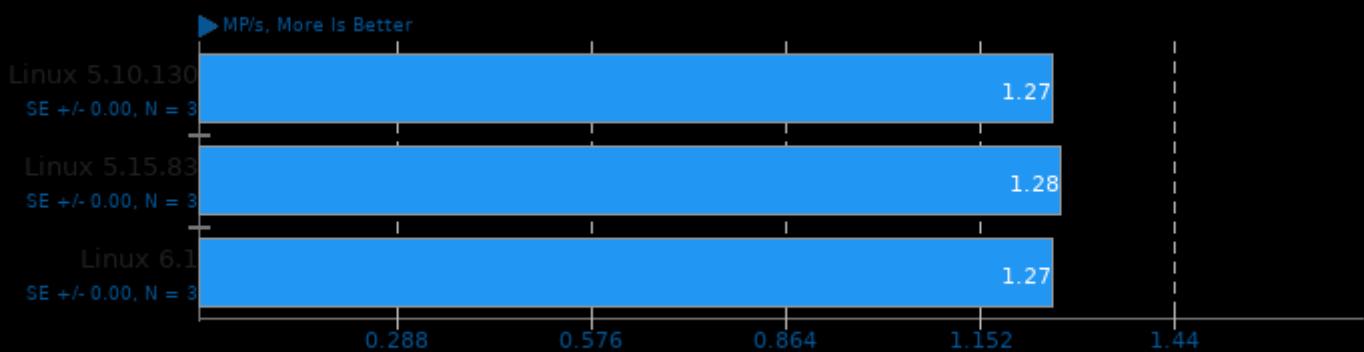
Encode Settings: Quality 100



1. (CC) gcc options: -fvisibility=hidden -O2 -lm -pthread

WebP Image Encode 1.2.4

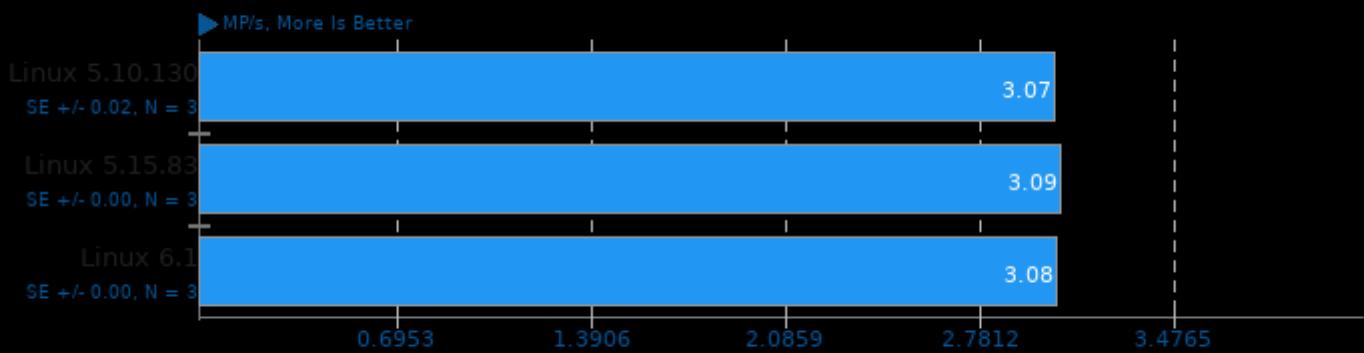
Encode Settings: Quality 100, Lossless



1. (CC) gcc options: -fvisibility=hidden -O2 -lm -pthread

WebP Image Encode 1.2.4

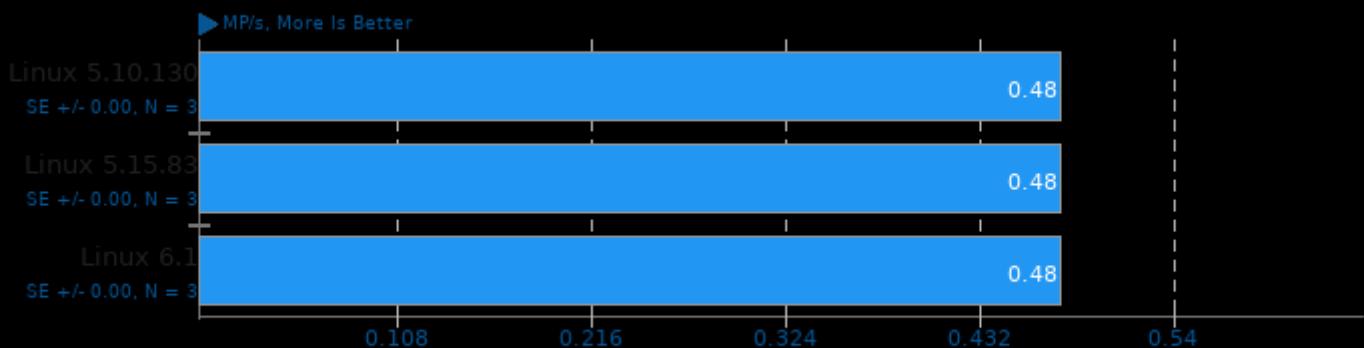
Encode Settings: Quality 100, Highest Compression



1. (CC) gcc options: -fvisibility=hidden -O2 -lm -pthread

WebP Image Encode 1.2.4

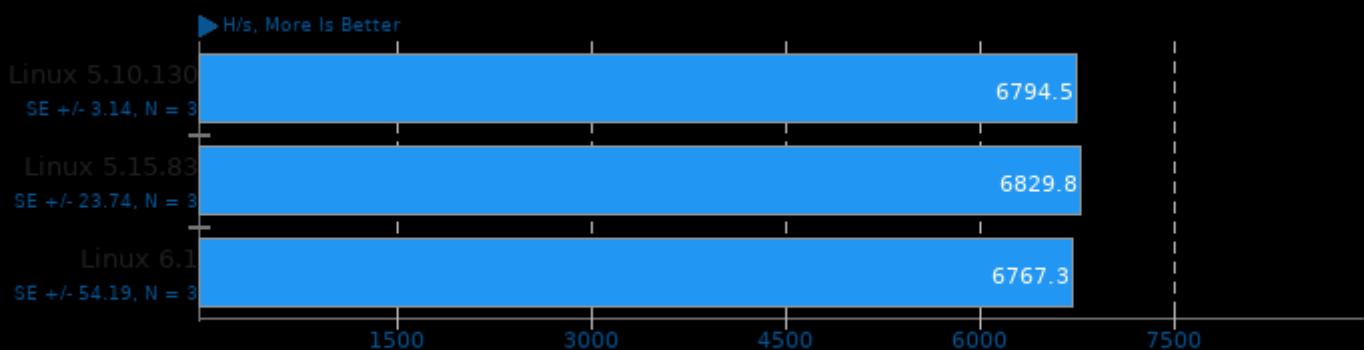
Encode Settings: Quality 100, Lossless, Highest Compression



1. (CC) gcc options: -fvisibility=hidden -O2 -lm -pthread

Xmrig 6.18.1

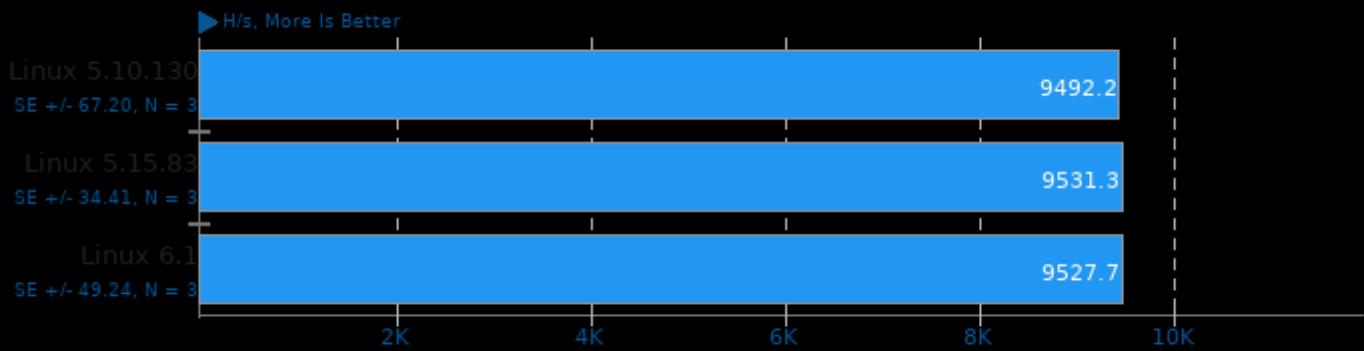
Variant: Monero - Hash Count: 1M



1. (CXX) g++ options: -fexceptions -fno-rtti -maes -O3 -Ofast -static-libgcc -static-libstdc++ -rdynamic -lssl -lcrypto -luv -lpthread -lrt -ldl -lhwloc

Xmrig 6.18.1

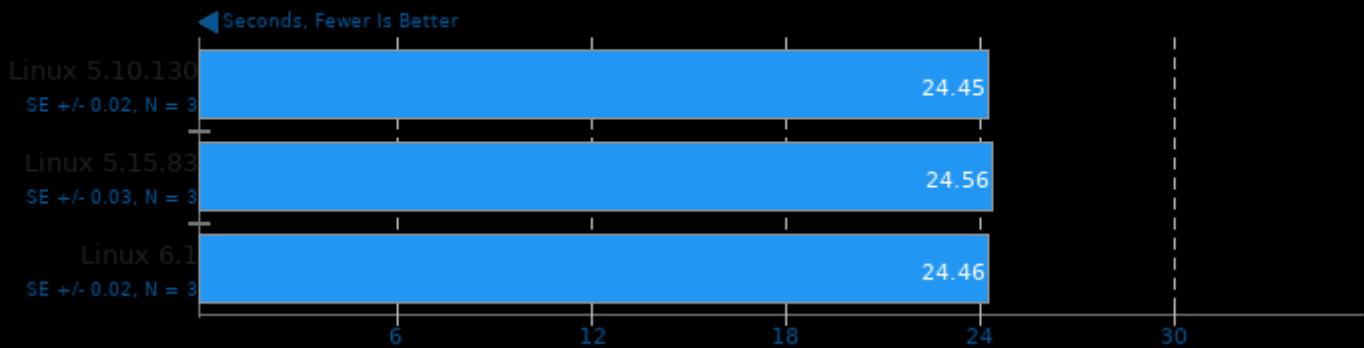
Variant: Wownero - Hash Count: 1M



1. (CXX) g++ options: -fexceptions -fno-rtti -maes -O3 -Ofast -static-libgcc -static-libstdc++ -rdynamic -lssl -lcrypto -luv -lpthread -lrt -ldl -lhwloc

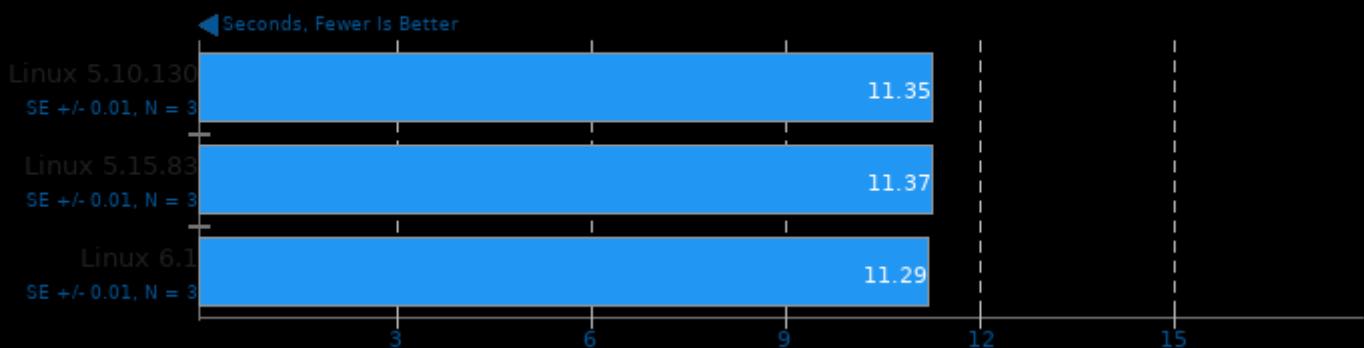
Y-Cruncher 0.7.10.9513

Pi Digits To Calculate: 1B

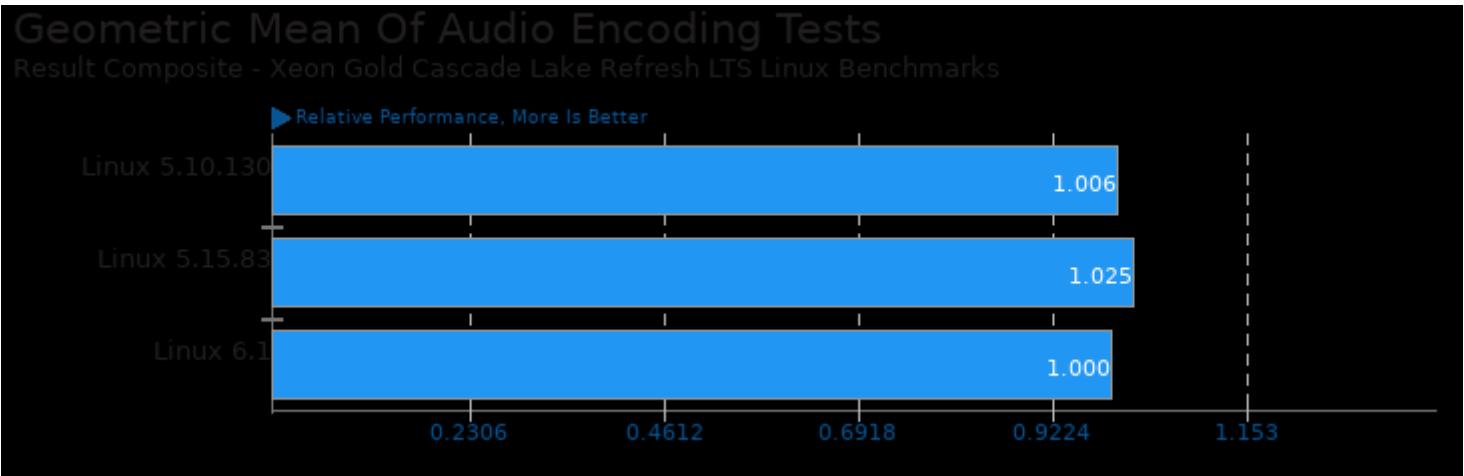


Y-Cruncher 0.7.10.9513

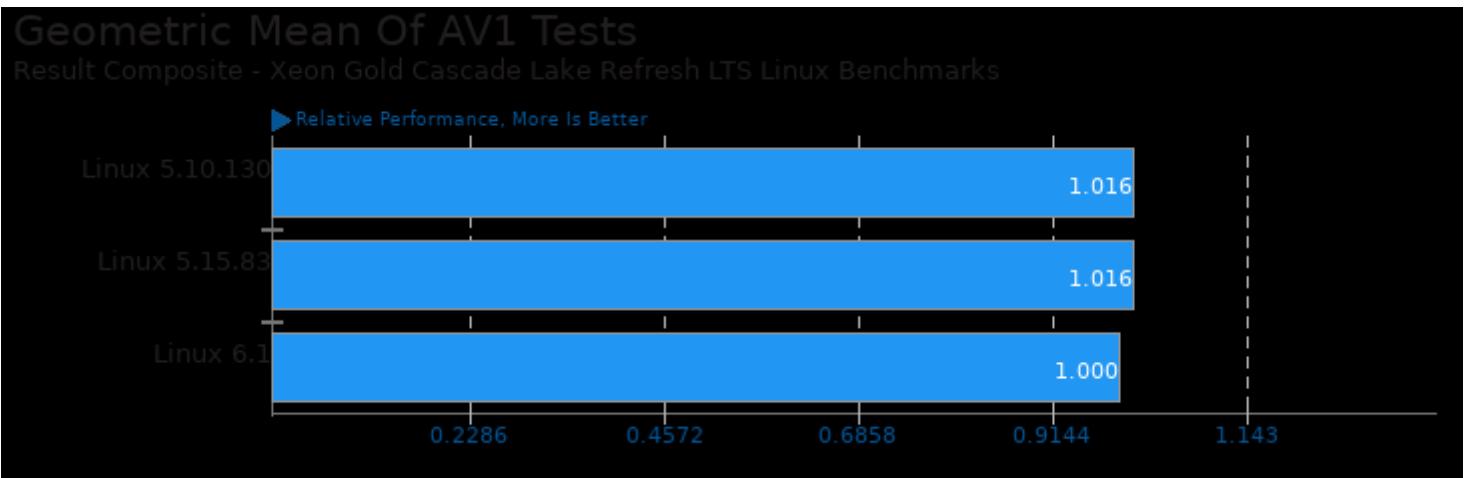
Pi Digits To Calculate: 500M



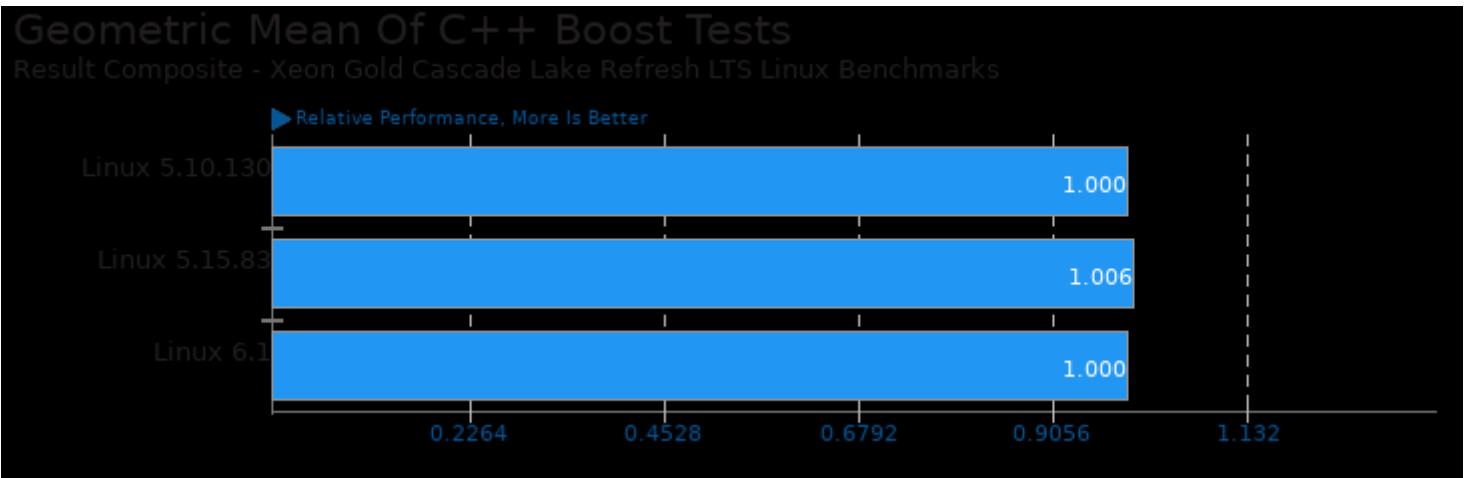
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/encode-flac and pts/stargate



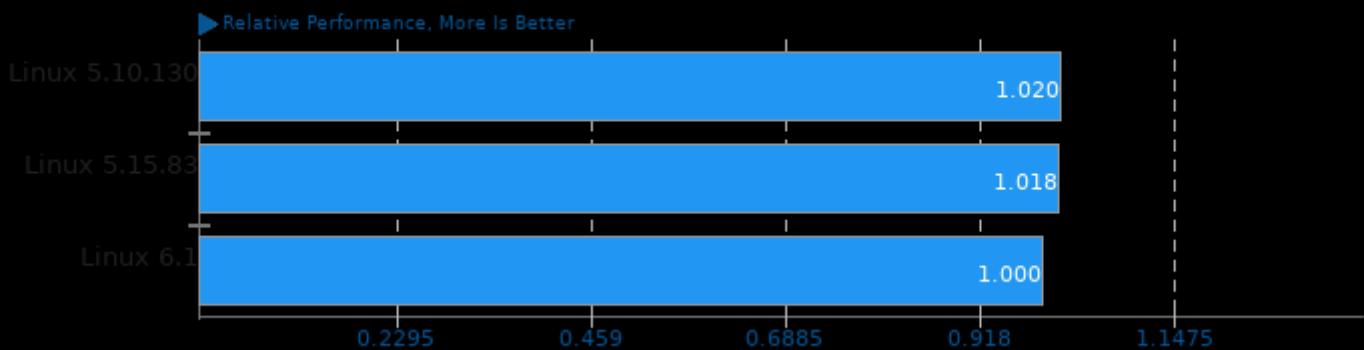
Geometric mean based upon tests: pts/aom-av1, pts/svt-av1 and pts/avifenc



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

Geometric Mean Of Timed Code Compilation Tests

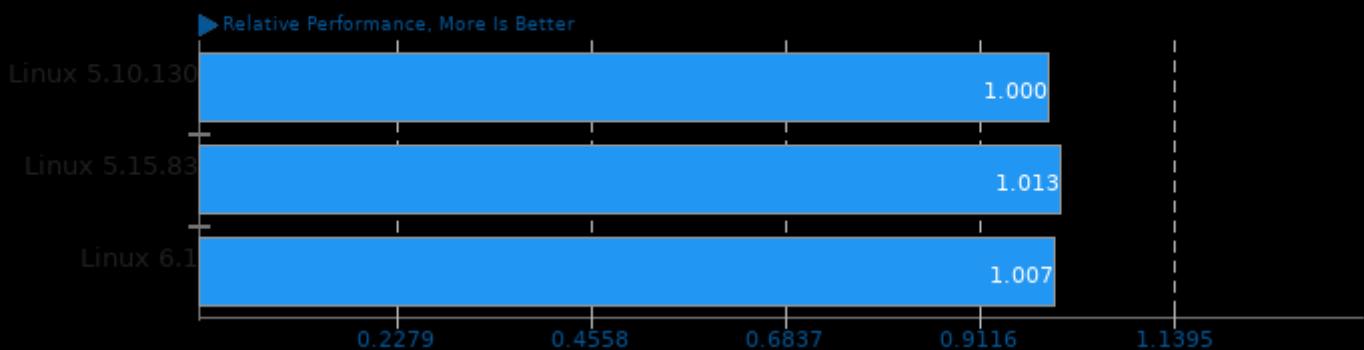
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/build-php, pts/build-linux-kernel, pts/build-python, pts/build-godot, pts/build-erlang and pts/build-nodejs

Geometric Mean Of C/C++ Compiler Tests

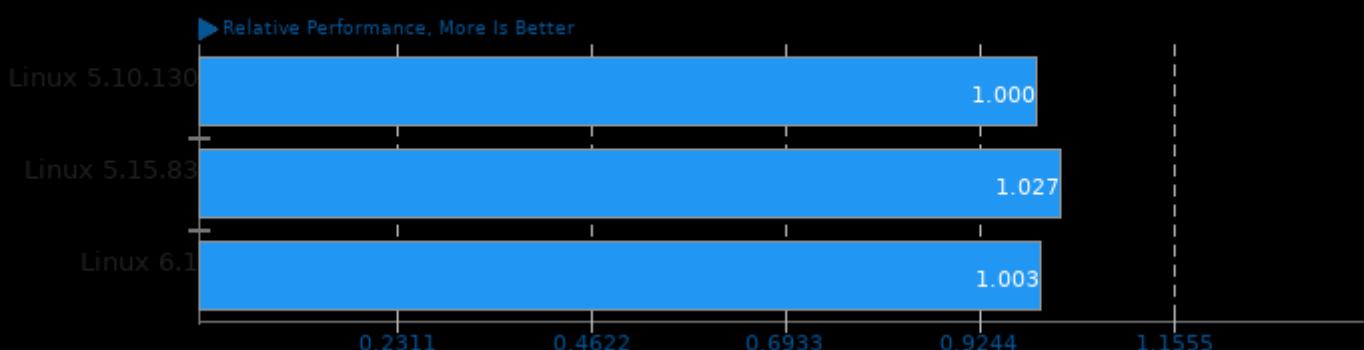
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/graphics-magick, pts/build-php, pts/compress-7zip, pts/encode-flac, pts/pgbench, pts/lammps, pts/aircrack-ng, pts/aom-av1 and pts/svt-av1

Geometric Mean Of Compression Tests

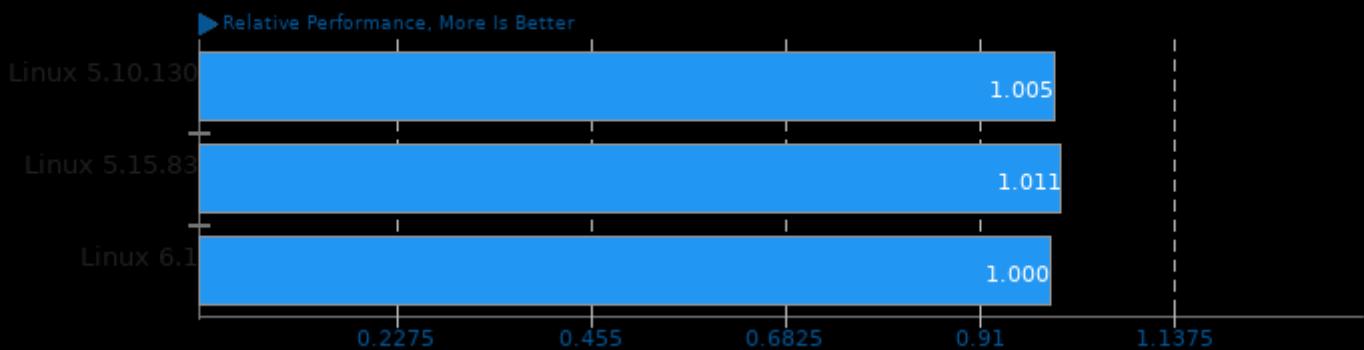
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/compress-7zip and pts/blosc

Geometric Mean Of CPU Massive Tests

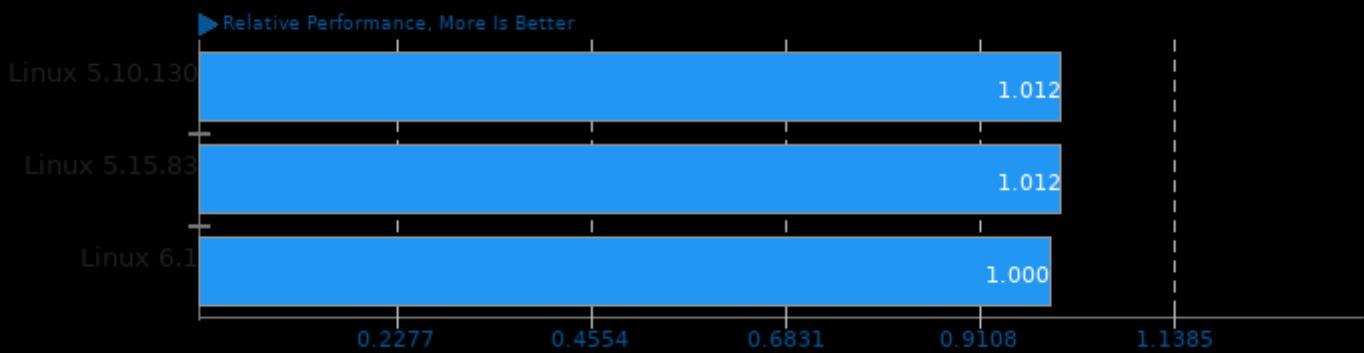
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/brl-cad, pts/build-linux-kernel, pts/build-php, pts/compress-7zip, pts/ctx-clock, pts/svt-av1, pts/encode-flac, pts/graphics-magick, pts/lammps, pts/onednn, pts/numENTA-nab, pts/pgbench, pts/primesieve, pts/stress-ng, pts/tensorflow, pts/blender and pts/cpuminer-opt

Geometric Mean Of Creator Workloads Tests

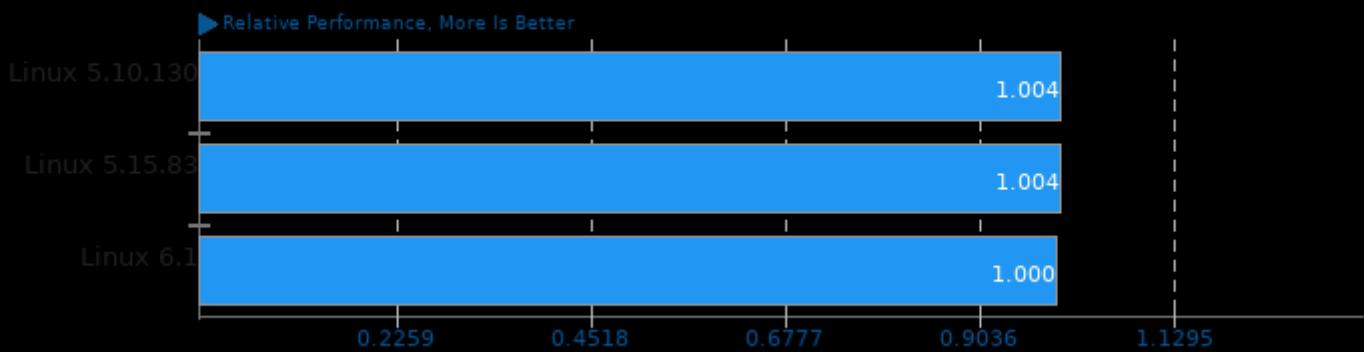
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/ospray-studio, pts/blender, pts/natron, pts/aom-av1, pts/svt-av1, pts/avifenc, pts/encode-flac, pts/stargate, pts/graphics-magick, pts/webp, pts/jpegxl, pts/jpegxl-decode, pts/onednn, pts/openvino, pts/astcenc, pts/build-godot and pts/brl-cad

Geometric Mean Of Cryptocurrency Benchmarks, CPU Mining Tests

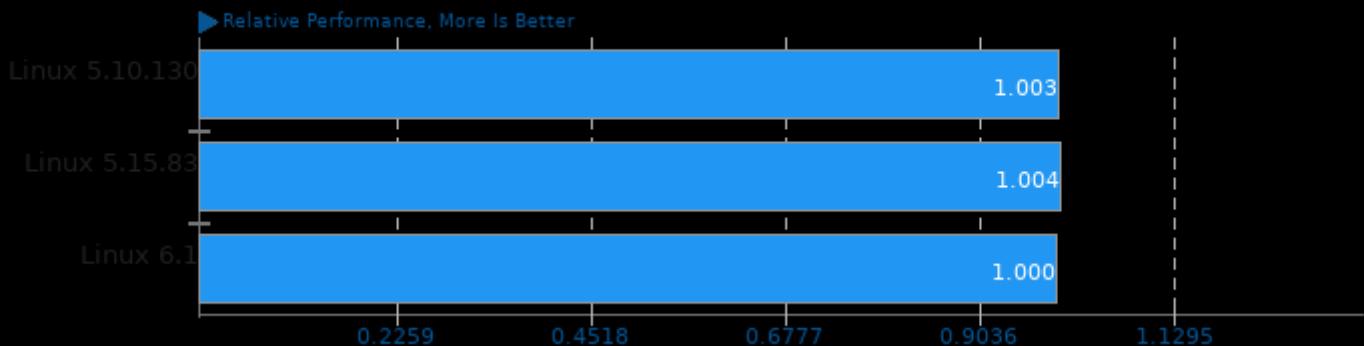
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/cpuminer-opt and pts/xmrig

Geometric Mean Of Cryptography Tests

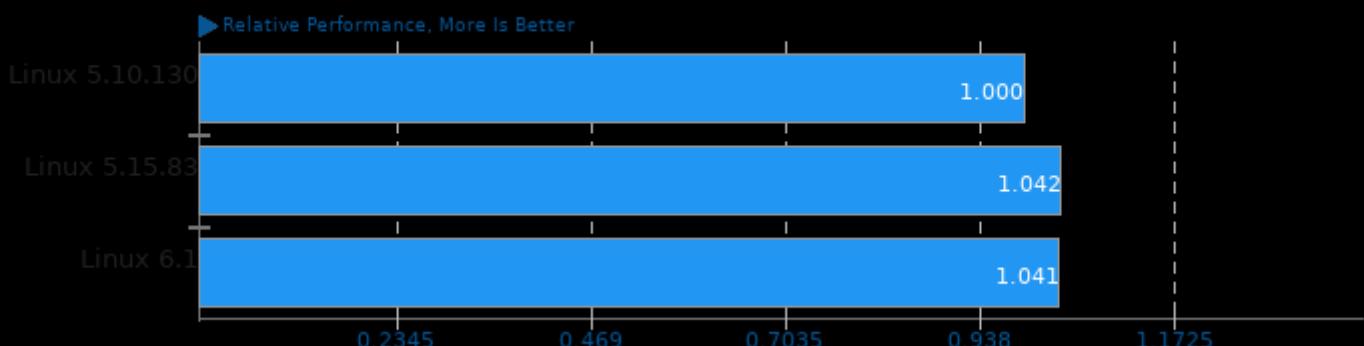
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/aircrack-ng, pts/cpuminer-opt and pts/xmrig

Geometric Mean Of Database Test Suite

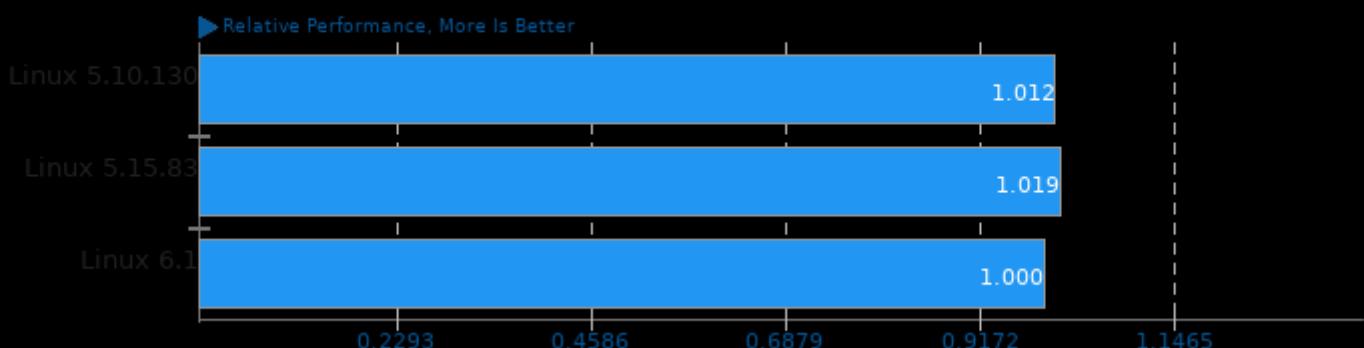
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/dragonflydb, pts/rocksdb, pts/pgbench and pts/clickhouse

Geometric Mean Of Encoding Tests

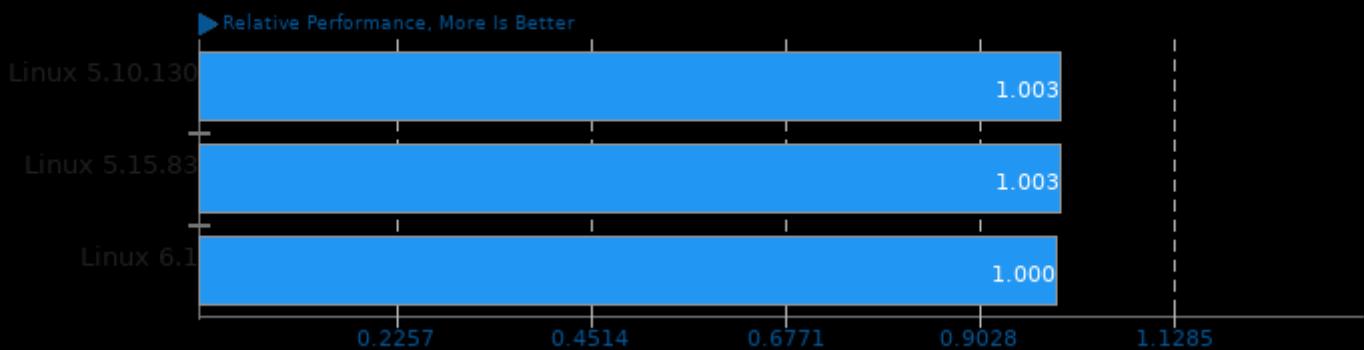
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/encode-flac, pts/stargate, pts/aom-av1, pts/svt-av1 and pts/avifenc

Geometric Mean Of Game Development Tests

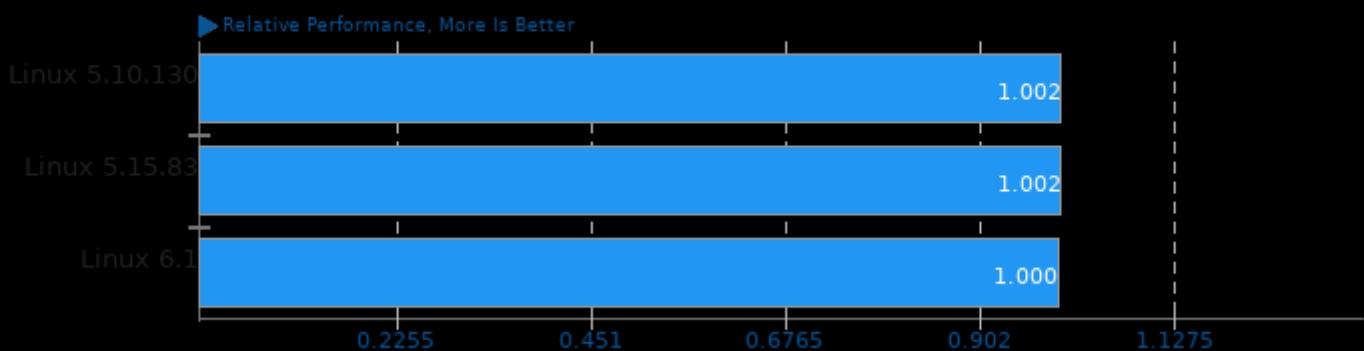
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/astcenc, pts/build-godot and pts/blender

Geometric Mean Of HPC - High Performance Computing Tests

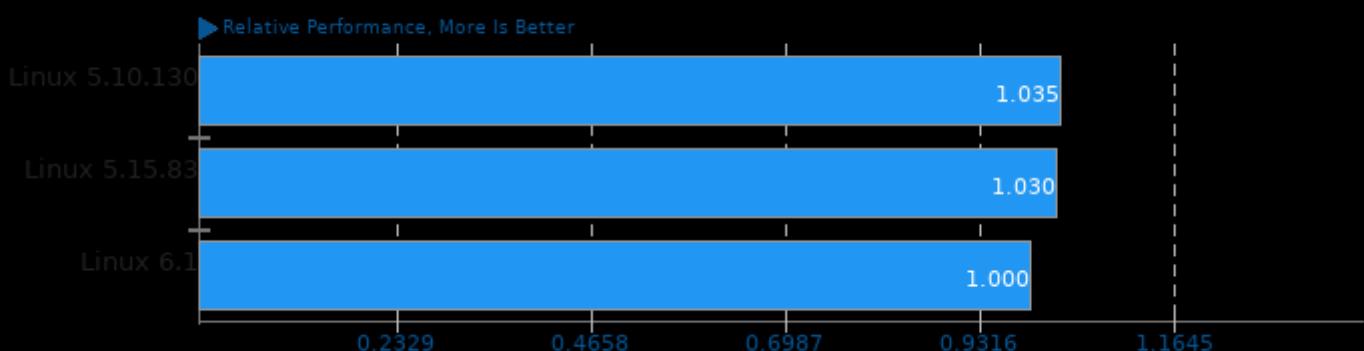
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/lammps, pts/openfoam, pts/mnn, pts/ncnn, pts/numamenta-nab, pts/tensorflow, pts/onnednn, pts/openvino, pts/spacy, pts/deepsparse, pts/openradioss, pts/nekrs and pts/minibude

Geometric Mean Of Imaging Tests

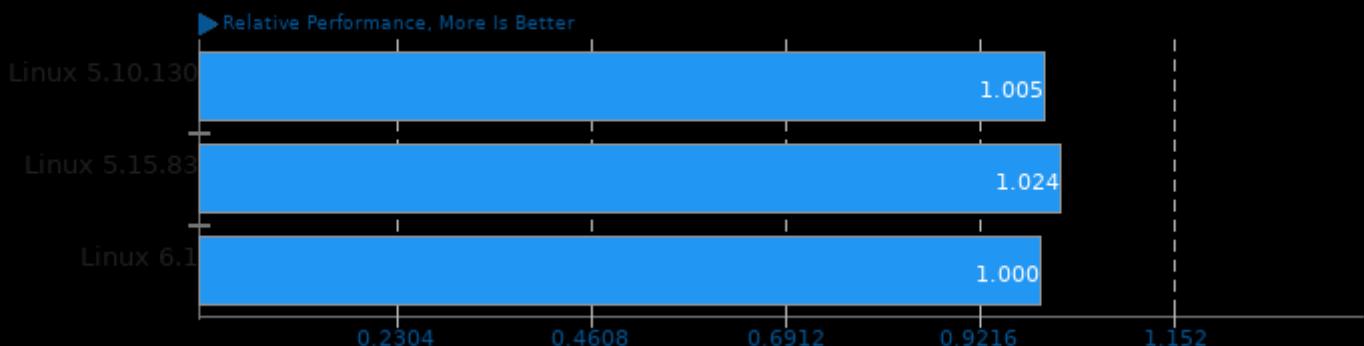
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/graphics-magick, pts/webp, pts/jpegxl, pts/jpegxl-decode and pts/avifenc

Geometric Mean Of Common Kernel Benchmarks Tests

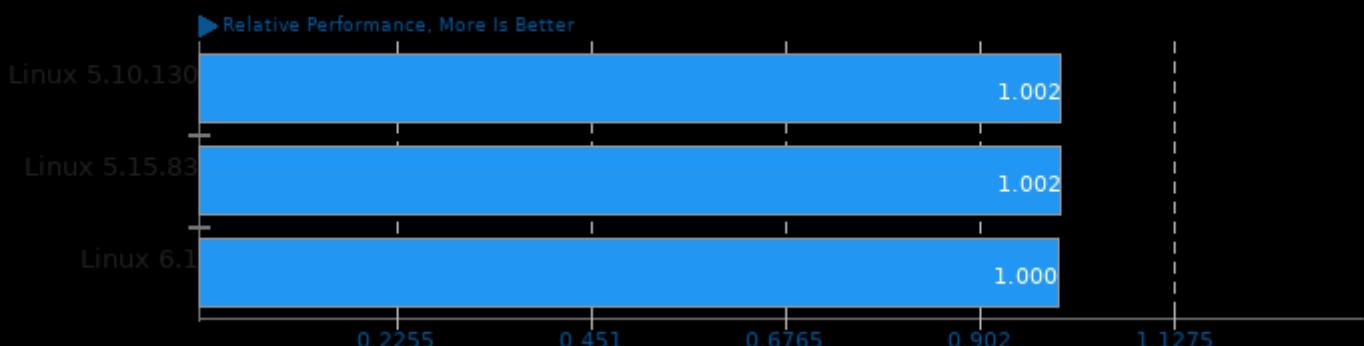
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/pgbench, pts/ctx-clock, pts/stress-ng and pts/rocksdb

Geometric Mean Of Machine Learning Tests

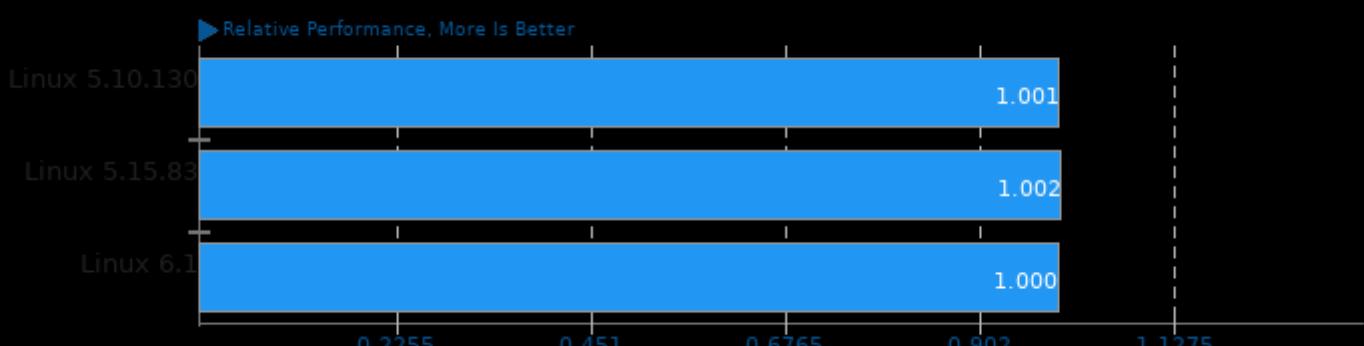
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/mnn, pts/ncnn, pts/numenta-nab, pts/tensorflow, pts/onednn, pts/openvino, pts/spacy and pts/deepsparse

Geometric Mean Of Molecular Dynamics Tests

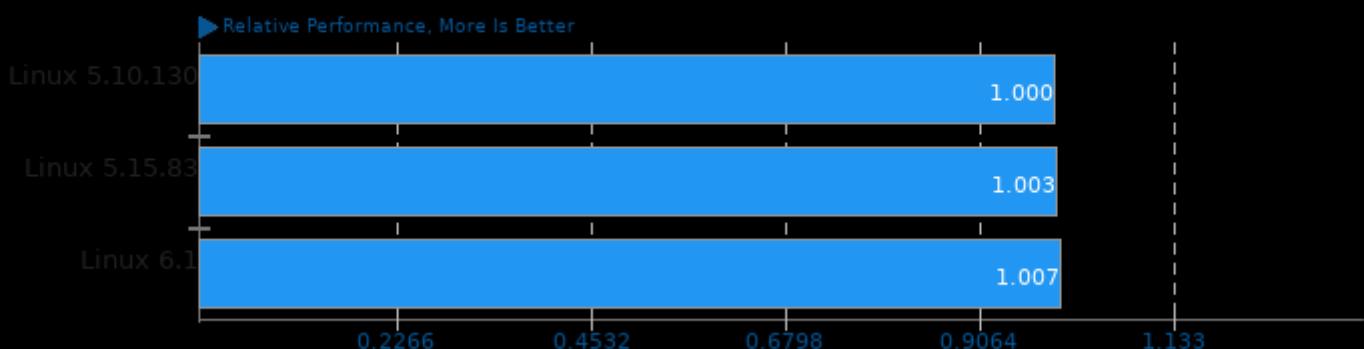
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/lammps and pts/openfoam

Geometric Mean Of NVIDIA GPU Compute Tests

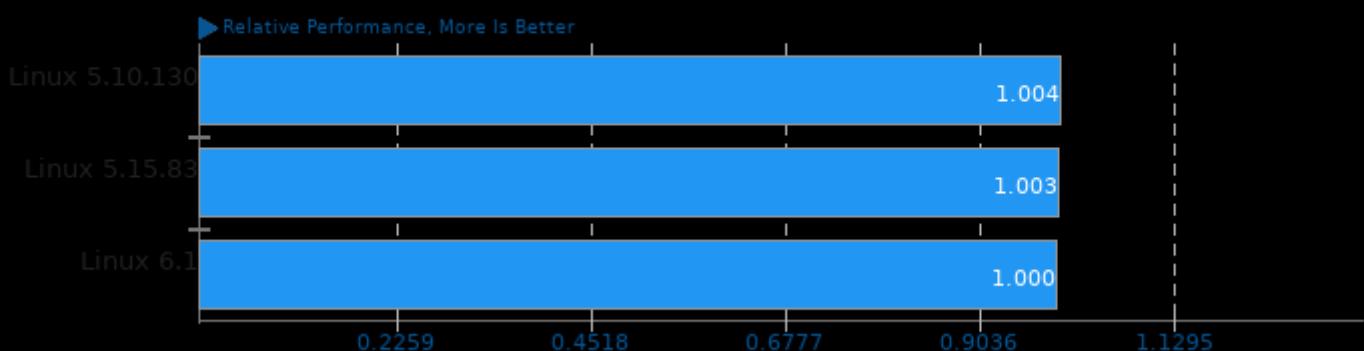
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



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

Geometric Mean Of Intel oneAPI Tests

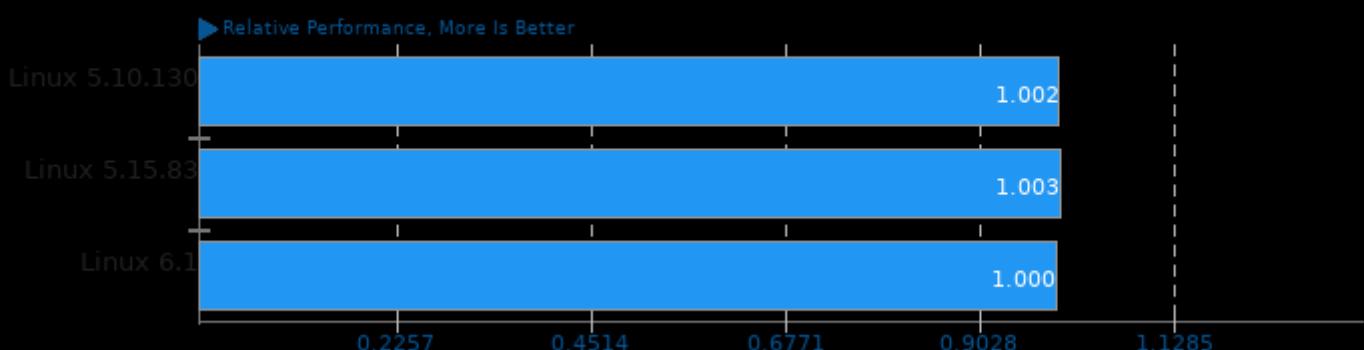
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/onednn, pts/ospray-studio and pts/openvino

Geometric Mean Of OpenMPI Tests

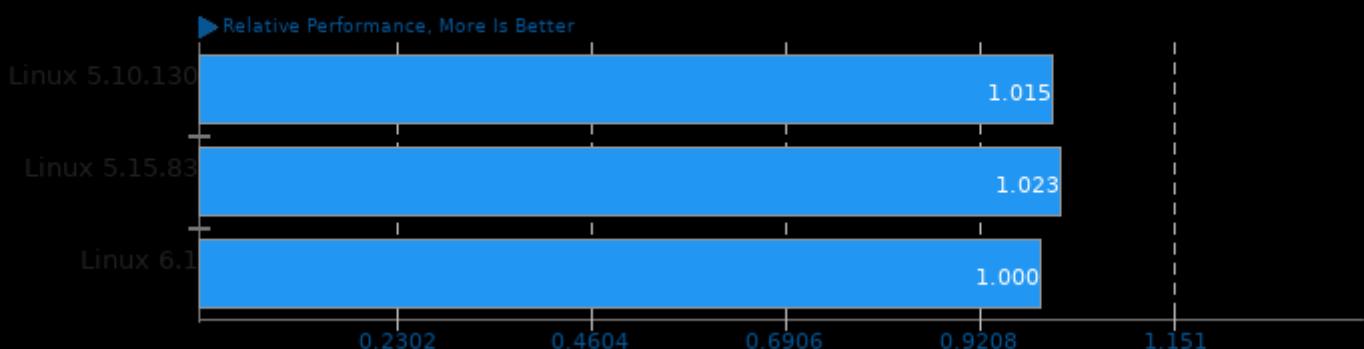
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/lammps, pts/nekrs, pts/openfoam and pts/openradioss

Geometric Mean Of Programmer / Developer System Benchmarks Tests

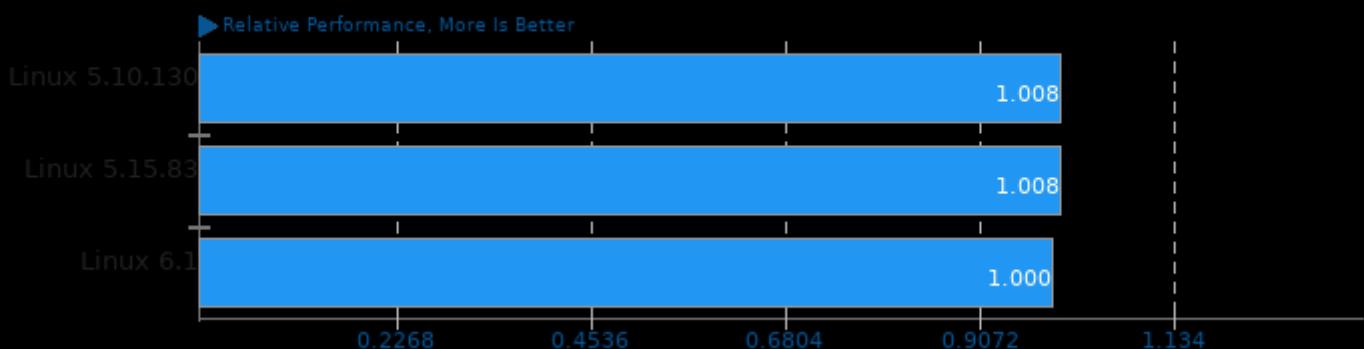
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/blosc, pts/build-php, pts/build-linux-kernel, pts/build-python, pts/build-godot, pts/build-erlang and pts/build-nodejs

Geometric Mean Of Python Tests

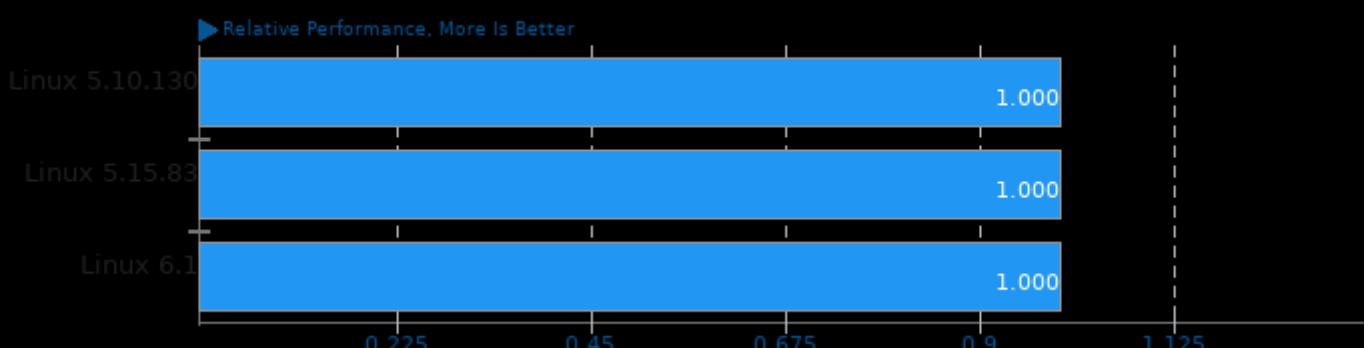
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/encodec, pts/deepsparse, pts/numamenta-nab, pts/openvino, pts/spacy, pts/stargate, pts/tensorflow, pts/build-godot and pts/build-nodejs

Geometric Mean Of Renderers Tests

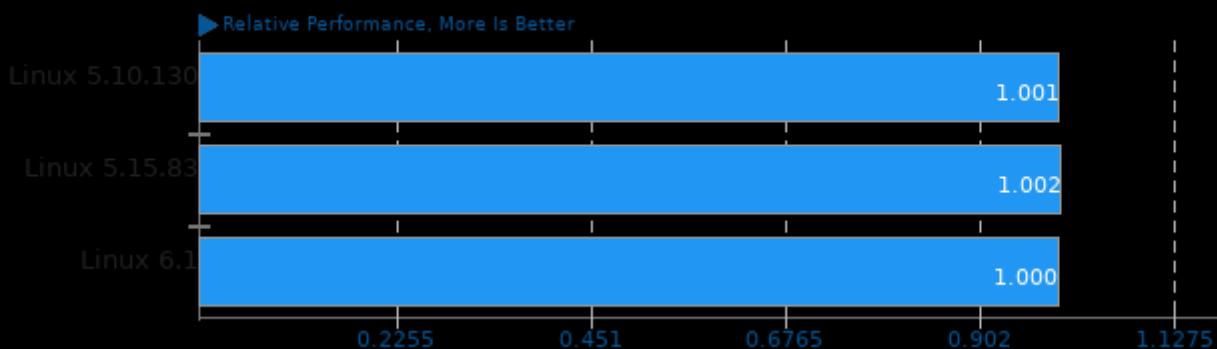
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/ospray-studio, pts/blender and pts/natron

Geometric Mean Of Scientific Computing Tests

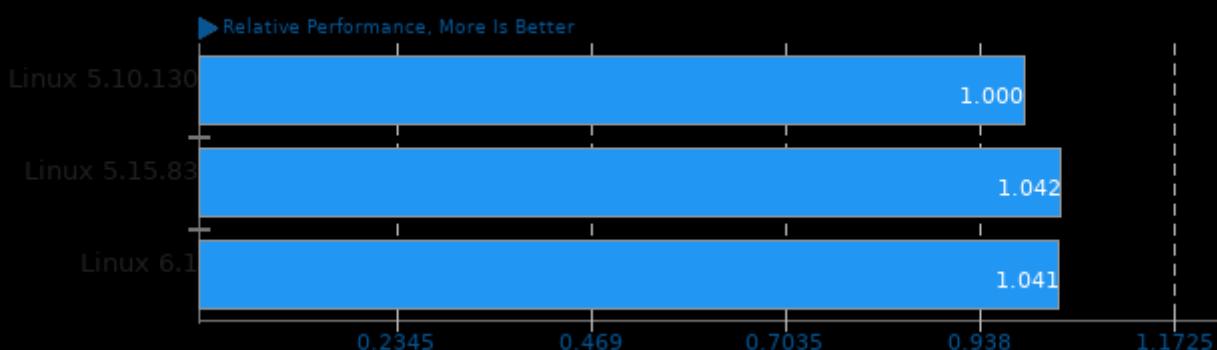
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/lammps and pts/openfoam

Geometric Mean Of Server Tests

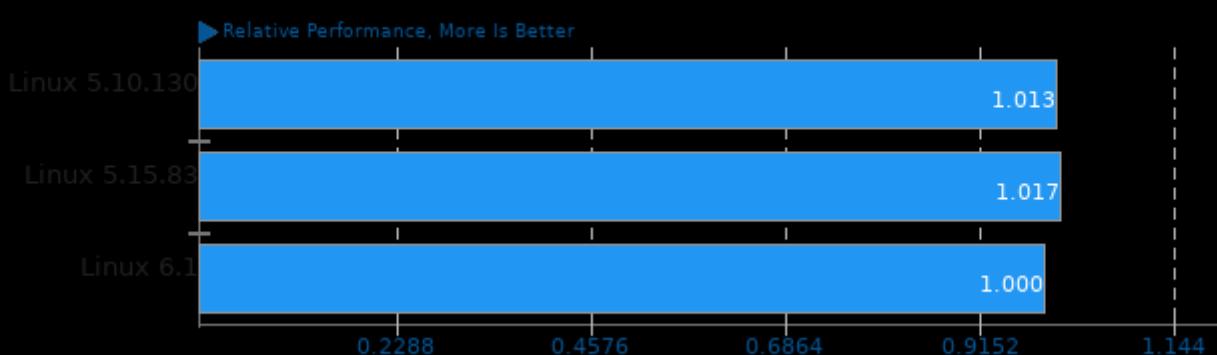
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/pgbench, pts/rocksdb, pts/dragonflydb and pts/clickhouse

Geometric Mean Of Server CPU Tests

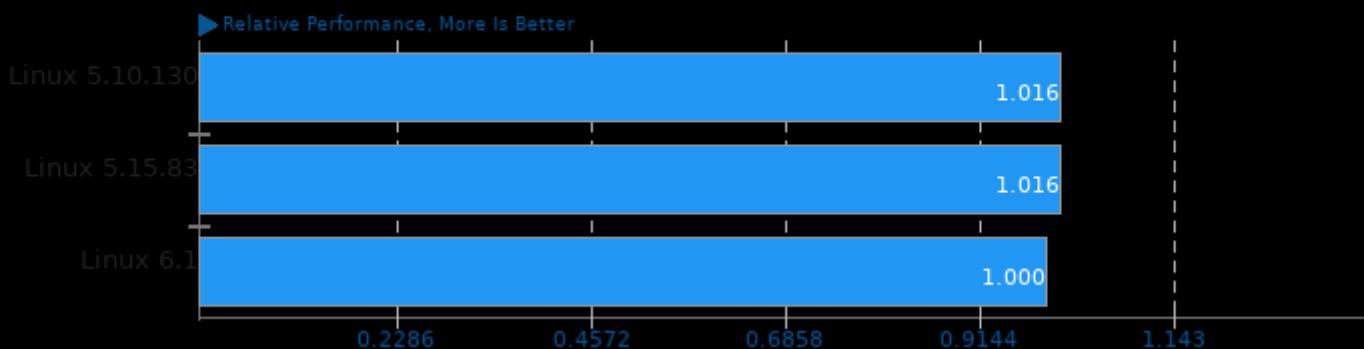
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/onnednn, pts/svt-av1, pts/compress-7zip, pts/build-linux-kernel, pts/build-php, pts/stress-ng, pts/ctx-clock, pts/blender, pts/numenta-nab and pts/cpuminer-opt

Geometric Mean Of Video Encoding Tests

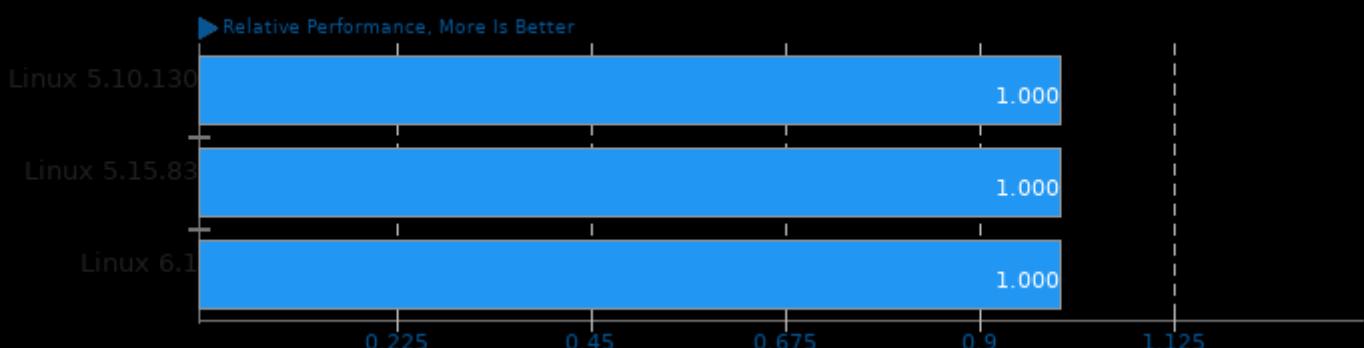
Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



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

Geometric Mean Of Common Workstation Benchmarks Tests

Result Composite - Xeon Gold Cascade Lake Refresh LTS Linux Benchmarks



Geometric mean based upon tests: pts/blender and pts/brl-cad

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 08:46.