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i7 6800K Debian

Intel Core i7-6800K testing with a MSI X99A WORKSTATION (MS-7A54) v1.0 (1.10 BIOS) and Zotac NVIDIA GeForce GTX 1050 2GB on Debian 10 via the Phoronix Test Suite.

Automated Executive Summary

Repeat had the most wins, coming in first place for 40% of the tests.

Based on the geometric mean of all complete results, the fastest (Debian 10 Buster) was 1.001x the speed of the slowest (Debian 10). Debian 10 Buster was 1x the speed of Repeat and Debian 10 was 0.999x the speed of Debian 10 Buster.

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

Zstd Compression (Compression Level: 19) at 1.111x
NCNN (Target: CPU - Model: blazeface) at 1.035x
OSBench (Test: Memory Allocations) at 1.031x
WebP Image Encode (Encode Settings: Quality 100, Lossless) at 1.03x
Incompact3D (Input: Cylinder) at 1.028x
NCNN (Target: CPU - Model: squeezenet_int8) at 1.026x
doraw (RAW To PPM Image Conversion) at 1.023x
OSBench (Test: Launch Programs) at 1.022x

eSpeak-NG Speech Engine (Text-To-Speech Synthesis) at 1.02x
 WebP Image Encode (Encode Settings: Default) at 1.017x.

Test Systems:

Debian 10

Debian 10 Buster

Repeat

Processor: Intel Core i7-6800K @ 3.80GHz (6 Cores / 12 Threads), Motherboard: MSI X99A WORKSTATION (MS-7A54) v1.0 (1.10 BIOS), Chipset: Intel Xeon E7 v4/Xeon, Memory: 16GB, Disk: 120GB TOSHIBA TR150, Graphics: Zotac NVIDIA GeForce GTX 1050 2GB, Audio: Realtek ALC1150, Monitor: G237HL, Network: Intel I218-LM + Intel I210

OS: Debian 10, Kernel: 4.19.0-10-amd64 (x86_64), Desktop: GNOME Shell 3.30.2, Display Server: X Server 1.20.4 + Wayland, Display Driver: modesetting 1.20.4, Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1920x1080

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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic --without-cuda-driver -v

Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xb000002e

Python Notes: Python 2.7.16 + Python 3.7.3

Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Vulnerable: Clear buffers attempted no microcode; SMT vulnerable + meltdown: Mitigation of PTI + 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 Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbs: Not affected + tsx_async_abort: Vulnerable: Clear buffers attempted no microcode; SMT vulnerable

| | Debian 10 | Debian 10 Buster | Repeat |
|--|------------------|------------------|------------------|
| OSBench - Create Files (us/Event) | 14.685416 | 14.684122 | 14.494470 |
| Normalized | 98.7% | 98.71% | 100% |
| Standard Deviation | 0.1% | 1.3% | 2.9% |
| OSBench - Create Threads (us/Event) | 11.610190 | 12.149334 | 12.640794 |
| Normalized | 100% | 95.56% | 91.85% |
| Standard Deviation | 2.5% | 9.8% | 11.4% |
| OSBench - Launch Programs (us/Event) | 39.476554 | 40.109952 | 40.352344 |
| Normalized | 100% | 98.42% | 97.83% |
| Standard Deviation | 0.2% | 0.4% | 0.1% |
| OSBench - Create Processes (us/Event) | 23.462772 | 23.286343 | 23.643971 |
| Normalized | 99.25% | 100% | 98.49% |
| Standard Deviation | 1.7% | 1.1% | 1.8% |
| OSBench - Memory Allocations (Ns/Event) | 84.364653 | 81.814369 | 84.232648 |
| Normalized | 96.98% | 100% | 97.13% |
| Standard Deviation | 0.1% | 1.5% | 0.3% |

| | | | |
|--|-------------------|-------------------|--------------|
| NAMD - ATPase Simulation - 327,506 Atoms | 2.75748 | 2.76335 | 2.76279 |
| (days/ns) | | | |
| Normalized | 100% | 99.79% | 99.81% |
| Standard Deviation | 0.6% | 0.1% | 0.3% |
| Incompact3D - Cylinder (sec) | 535.034912 | 550.102097 | 536.131409 |
| | | | |
| Normalized | 100% | 97.26% | 99.8% |
| Standard Deviation | 0.4% | 2.6% | 0.2% |
| Monte Carlo Simulations of Ionised Nebulae | 253 | 252 | 252 |
| - Dust 2D tau100.0 (sec) | | | |
| Normalized | 99.6% | 100% | 100% |
| Standard Deviation | 0.2% | | |
| LAMMPS Molecular Dynamics Simulator - | 4.050 | 4.060 | 4.050 |
| 20k Atoms (ns/day) | | | |
| Normalized | 99.75% | 100% | 99.75% |
| Standard Deviation | 0.5% | 0.4% | 0.2% |
| LAMMPS Molecular Dynamics Simulator - | 4.247 | 4.231 | 4.246 |
| Rhodopsin Protein (ns/day) | | | |
| Normalized | 100% | 99.62% | 99.98% |
| Standard Deviation | 0.5% | 0.6% | 0.3% |
| WebP Image Encode - Default (Encode Time | 1.875 | | |
| - sec) | | | |
| Normalized | 98.4% | 98.3% | 100% |
| Standard Deviation | 2.7% | 2.8% | 2.6% |
| WebP Image Encode - Quality 100 (Encode | 2.848 | 2.881 | 2.878 |
| Time - sec) | | | |
| Normalized | 100% | 98.85% | 98.96% |
| Standard Deviation | 2.7% | 0.5% | 0.2% |
| WebP Image Encode - Q.1.L (Encode Time - | 19.790 | | |
| sec) | | | |
| Normalized | 97.22% | 97.07% | 100% |
| Standard Deviation | 0.2% | 0.3% | 2.3% |
| WebP Image Encode - Q.1.H.C (Encode Time | 8.550 | | |
| - sec) | | | |
| Normalized | 98.8% | 98.61% | 100% |
| Standard Deviation | 0.3% | 0.4% | 2.9% |
| WebP Image Encode - Q.1.L.H.C (Encode | 41.613 | | |
| Time - sec) | | | |
| Normalized | 99.27% | 99.19% | 100% |
| Standard Deviation | 0.1% | 0.2% | 2.2% |
| Zstd Compression - 3 (MB/s) | 3026 | 3062 | 3056 |
| | | | |
| Normalized | 98.82% | 100% | 99.79% |
| Standard Deviation | 0.1% | 0.2% | 0.2% |
| Zstd Compression - 19 (MB/s) | 34.2 | 38 | 38 |
| | | | |
| Normalized | 90% | 100% | 100% |
| Standard Deviation | 0.2% | | |
| LibRaw - P.P.B (Mpix/sec) | 30.31 | 30.37 | 30.26 |
| | | | |
| Normalized | 99.8% | 100% | 99.64% |
| Standard Deviation | 1% | 1.4% | 1.2% |
| AOM AV1 - Speed 0 Two-Pass (FPS) | 0.24 | 0.24 | 0.24 |
| | | | |
| Standard Deviation | 2.4% | 2.4% | 2.4% |
| AOM AV1 - Speed 4 Two-Pass (FPS) | 1.83 | 1.83 | 1.83 |
| | | | |
| Standard Deviation | 0.3% | 0.3% | 0.3% |
| AOM AV1 - Speed 6 Realtime (FPS) | 14.61 | 14.67 | 14.73 |
| | | | |
| Normalized | 99.19% | 99.59% | 100% |

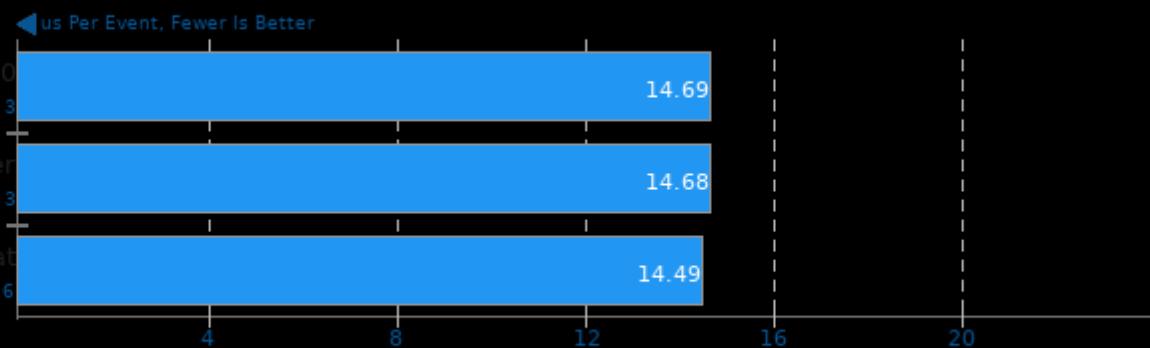
| | | | | |
|---|--------------------|----------------|----------------|---------|
| | Standard Deviation | 1.3% | 0.7% | 0.5% |
| AOM AV1 - Speed 6 Two-Pass (FPS) | 2.88 | 2.90 | 2.90 | |
| Normalized | 99.31% | 100% | 100% | |
| Standard Deviation | 0.5% | 0.7% | 0.3% | |
| AOM AV1 - Speed 8 Realtime (FPS) | 30.50 | 30.66 | | 30.52 |
| Normalized | 99.48% | 100% | 99.54% | |
| Standard Deviation | 0.2% | 1.4% | 0.5% | |
| Timed LLVM Compilation - Time To Compile (sec) | 886.587 | 881.705 | | 883.997 |
| Normalized | 99.45% | 100% | 99.74% | |
| Standard Deviation | 0.5% | 0.3% | 0.2% | |
| ddraw - R.T.P.I.C (sec) | 48.356 | 49.476 | | 49.447 |
| Normalized | 100% | 97.74% | 97.79% | |
| Standard Deviation | 2.8% | 0% | 0.2% | |
| eSpeak-NG Speech Engine - T.T.S.S (sec) | 39.383 | 38.614 | | 39.052 |
| Normalized | 98.05% | 100% | 98.88% | |
| Standard Deviation | 3% | 2% | 2.8% | |
| System GZIP Decompression (sec) | 3.580 | 3.463 | 3.433 | |
| Normalized | 95.89% | 99.13% | 100% | |
| Standard Deviation | 10.9% | 10% | 3% | |
| TensorFlow Lite - SqueezeNet (us) | 370424 | 370419 | 370499 | |
| Normalized | 100% | 100% | 99.98% | |
| Standard Deviation | 0.1% | 0.2% | 0.1% | |
| TensorFlow Lite - Inception V4 (us) | 5425967 | 5428113 | 5425307 | |
| Normalized | 99.99% | 99.95% | 100% | |
| Standard Deviation | 0% | 0% | 0.1% | |
| TensorFlow Lite - NASNet Mobile (us) | 302458 | 302155 | 302017 | |
| Normalized | 99.85% | 99.95% | 100% | |
| Standard Deviation | 0.2% | 0.3% | 0.4% | |
| TensorFlow Lite - Mobilenet Float (us) | 254122 | 254280 | 253975 | |
| Normalized | 99.94% | 99.88% | 100% | |
| Standard Deviation | 0.2% | 0.2% | 0.1% | |
| TensorFlow Lite - Mobilenet Quant (us) | 246406 | 246397 | 246225 | |
| Normalized | 99.93% | 99.93% | 100% | |
| Standard Deviation | 0.2% | 0.2% | 0.1% | |
| TensorFlow Lite - I.R.V (us) | 4888407 | 4888160 | 4889750 | |
| Normalized | 99.99% | 100% | 99.97% | |
| Standard Deviation | 0.1% | 0.1% | 0.1% | |
| GPAW - Carbon Nanotube (sec) | 436.433 | 436.385 | 436.322 | |
| Normalized | 99.97% | 99.99% | 100% | |
| Standard Deviation | 0.1% | 0.1% | 0.3% | |
| Mobile Neural Network - SqueezeNetV1.0 | 7.681 | 7.687 | 7.704 | |
| Normalized | 100% | 99.92% | 99.7% | |
| Standard Deviation | 0.7% | 0.8% | 0.3% | |
| Mobile Neural Network - resnet-v2-50 (ms) | 40.059 | 39.918 | 40.129 | |
| Normalized | 99.65% | 100% | 99.47% | |
| Standard Deviation | 1.5% | 1.1% | 1.5% | |
| Mobile Neural Network - MobileNetV2_224 | 4.655 | 4.648 | 4.635 | |
| Normalized | 99.57% | 99.72% | 100% | |
| Standard Deviation | 1.1% | 0.9% | 0.4% | |
| Mobile Neural Network - mobilenet-v1-1.0 | 7.219 | 7.223 | 7.202 | |
| Normalized | 99.76% | 99.71% | 100% | |
| Standard Deviation | 0.2% | 0.5% | 0.1% | |
| Mobile Neural Network - inception-v3 (ms) | 49.966 | 49.977 | 50.233 | |
| Normalized | 100% | 99.98% | 99.47% | |

| | Standard Deviation | Normalized | Standard Deviation | Normalized |
|---|--------------------|----------------|--------------------|----------------|
| NCNN - CPU - squeezenet_int8 (ms) | 0.7% | 100% | 2.4% | 99.46% |
| | 22.38 | 22.96 | 5.57 | 5.53 |
| NCNN - CPU - mobilenet_v3 (ms) | 1.7% | 97.47% | 0.3% | 99.28% |
| | 5.56 | 5.53 | 4.59 | 4.56 |
| NCNN - CPU - squeezenet (ms) | 1% | 0.7% | 1% | 0.7% |
| | 4.58 | 4.59 | 4.56 | 4.56 |
| NCNN - CPU - mnasnet (ms) | 1.1% | 0.9% | 2.5% | 99.09% |
| | 5.52 | 5.55 | 5.47 | 5.47 |
| NCNN - CPU - blazeface (ms) | 2.5% | 2.2% | 1.3% | 100% |
| | 1.98 | 2.02 | 2.05 | 2.05 |
| NCNN - CPU - googlenet_int8 (ms) | 2.1% | 98.02% | 3% | 99.69% |
| | 61.10 | 60.77 | 60.96 | 60.96 |
| NCNN - CPU - vgg16_int8 (ms) | 0.9% | 100% | 0.7% | 99.69% |
| | 179.99 | 179.89 | 179.30 | 179.30 |
| NCNN - CPU - resnet18_int8 (ms) | 0.4% | 0.2% | 0.4% | 99.62% |
| | 32.83 | 32.97 | 33.16 | 33.16 |
| NCNN - CPU - alexnet (ms) | 0.3% | 1.9% | 0.4% | 99.56% |
| | 15.78 | 15.73 | 15.71 | 15.71 |
| NCNN - CPU - resnet50_int8 (ms) | 0.4% | 0.4% | 1.9% | 99.56% |
| | 108.20 | 109.90 | 108.37 | 108.37 |
| NCNN - CPU - mobilenetv2_yolov3 (ms) | 0.1% | 0.4% | 0.3% | 98.45% |
| | 21.73 | 21.60 | 21.45 | 21.45 |
| Blender - BMW27 - CPU-Only (sec) | 0.1% | 0.7% | 1.1% | 98.71% |
| | 259.45 | 260.13 | 259.34 | 259.34 |
| Blender - Classroom - CPU-Only (sec) | 0.1% | 0.4% | 0.3% | 99.81% |
| | 786.59 | 796.08 | 790.46 | 790.46 |
| Blender - Fishy Cat - CPU-Only (sec) | 0.1% | 0.7% | 0.2% | 99.46% |
| | 364.79 | 366.18 | 364.20 | 364.20 |
| Blender - Barbershop - CPU-Only (sec) | 0.2% | 0.2% | 0.1% | 99.28% |
| | 1053 | 1045 | 1048 | 1048 |
| Blender - Pabellon Barcelona - CPU-Only | 0.1% | 0.1% | 1.1% | 100% |
| | 876.25 | 872.30 | 876.86 | 876.86 |
| Kripke (Throughput FoM) | 0.1% | 0.4% | 0.1% | 99.55% |
| | 3130019 | 3527303 | 3145270 | 3145270 |
| OpenCV - DNN - D.N.N (ms) | 2.8% | 25.2% | 1.1% | 88.74% |
| | 8326 | 9290 | 8743 | 8743 |
| OpenCV - DNN - D.N.N (ms) | 9.3% | 13.4% | 12.7% | 90.62% |
| | 8743 | 95.23% | 9.3% | 95.23% |

| | | | |
|--|---------|---------|---------|
| InfluxDB - 4 - 10000 - 2,5000,1 - 10000 | 902054 | 904699 | 902556 |
| Normalized | 99.71% | 100% | 99.76% |
| Standard Deviation | 2.7% | 2.6% | 2.2% |
| InfluxDB - 64 - 10000 - 2,5000,1 - 10000 | 983617 | 977784 | 990405 |
| (val/sec) | | | |
| Normalized | 99.31% | 98.73% | 100% |
| Standard Deviation | 1.2% | 2.7% | 2.1% |
| InfluxDB - 1024 - 10000 - 2,5000,1 - 10000 | 1089453 | 1096129 | 1099269 |
| (val/sec) | | | |
| Normalized | 99.11% | 99.71% | 100% |
| Standard Deviation | 1.5% | 0.2% | 1% |

OSBench

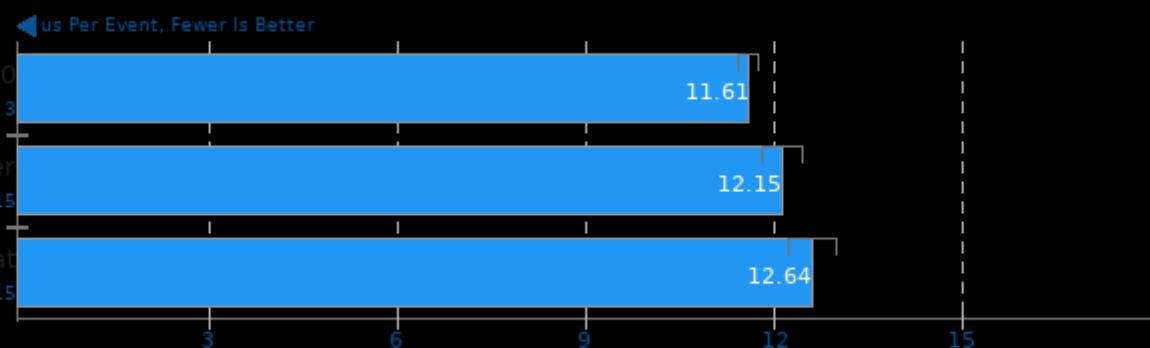
Test: Create Files



1. (CC) gcc options: -lm

OSBench

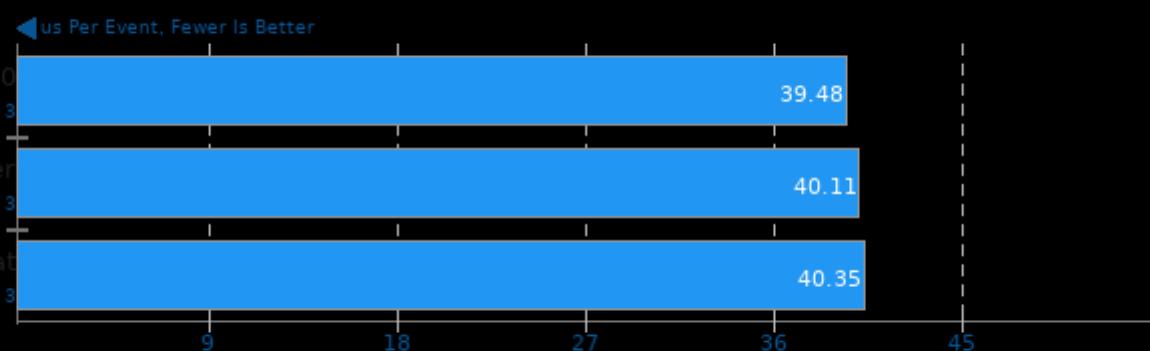
Test: Create Threads



1. (CC) gcc options: -lm

OSBench

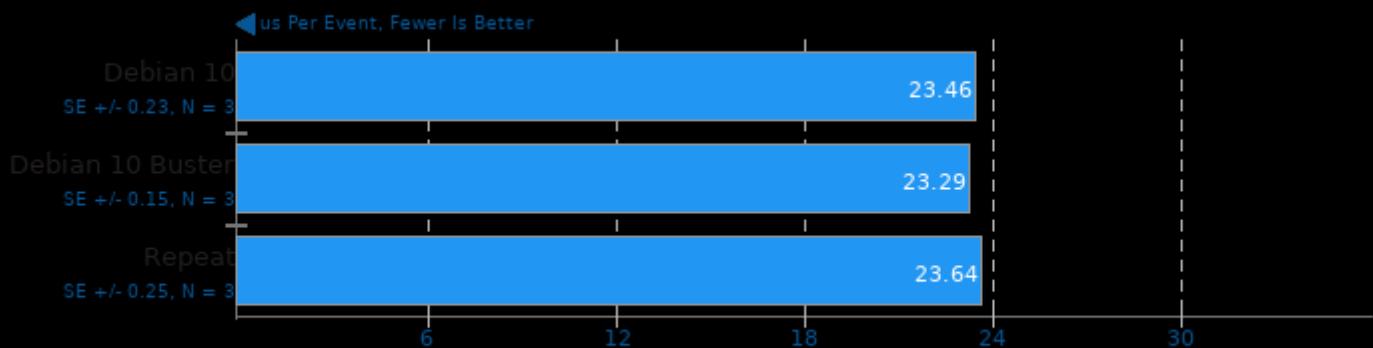
Test: Launch Programs



1. (CC) gcc options: -lm

OSBench

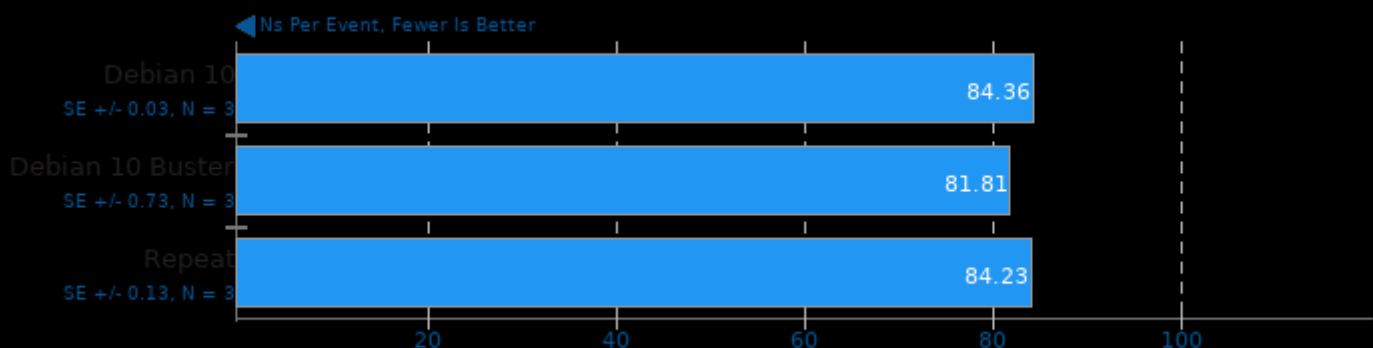
Test: Create Processes



1. (CC) gcc options: -lm

OSBench

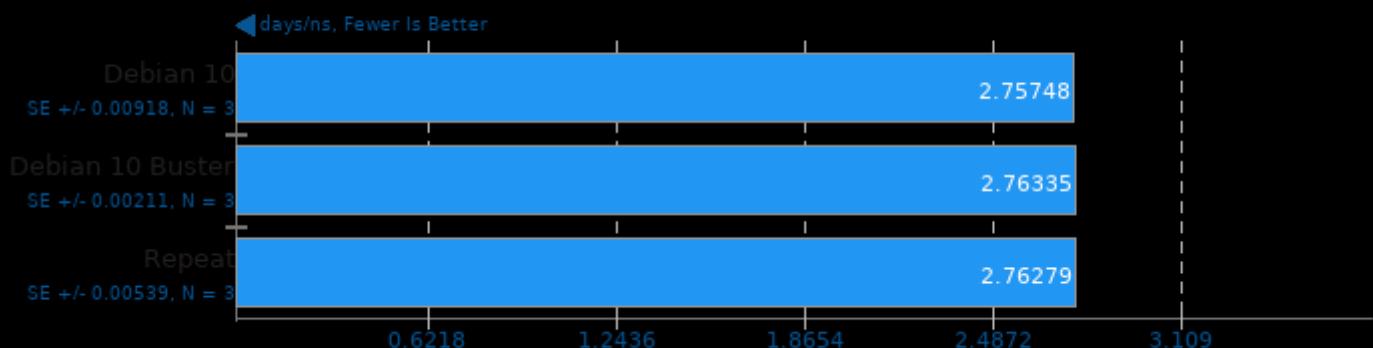
Test: Memory Allocations



1. (CC) gcc options: -lm

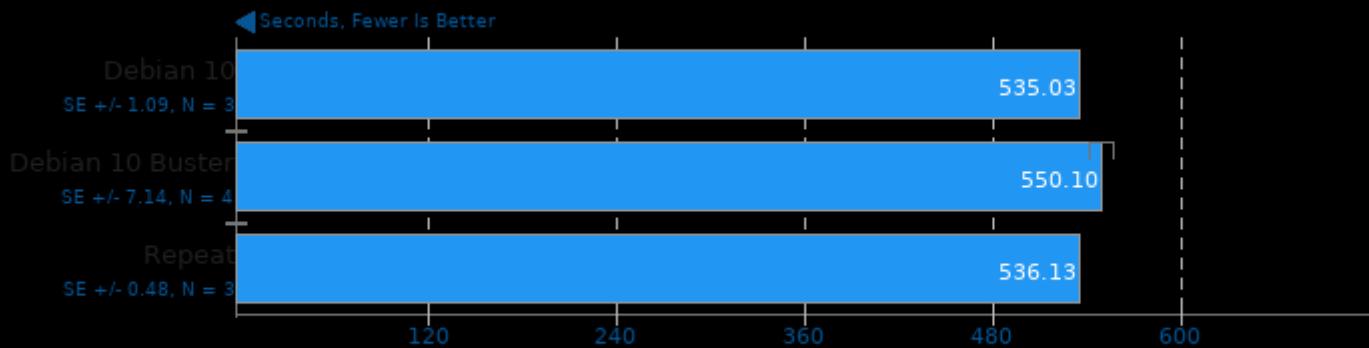
NAMD 2.14

ATPase Simulation - 327,506 Atoms



Incompact3D 2020-09-17

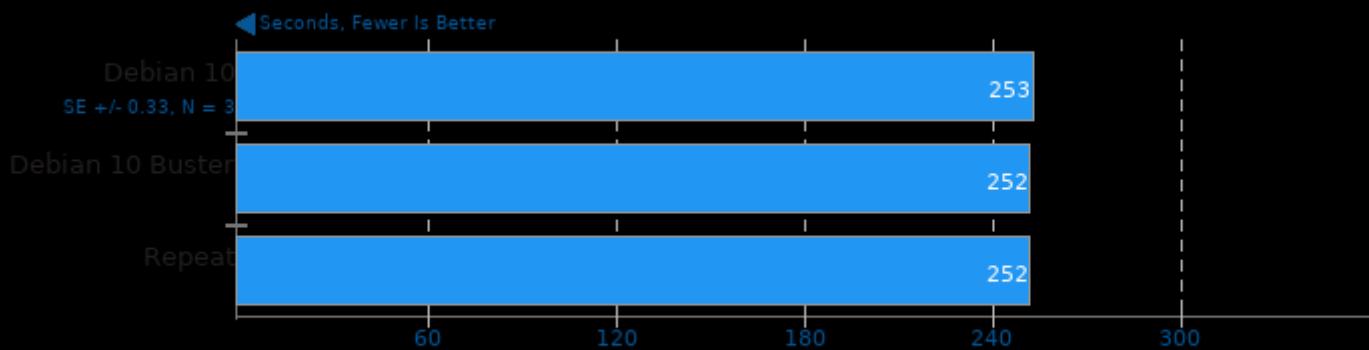
Input: Cylinder



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

Monte Carlo Simulations of Ionised Nebulae 2019-03-24

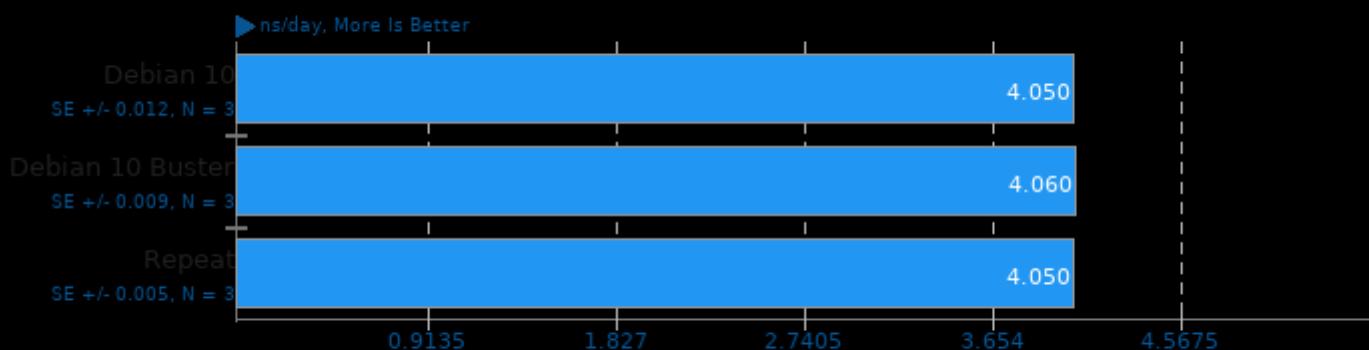
Input: Dust 2D tau100.0



1. (F9X) gfortran options: -cpp -jsource/ -ffree-line-length-0 -lm -std=legacy -O3 -O2 -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi

LAMMPS Molecular Dynamics Simulator 24Aug2020

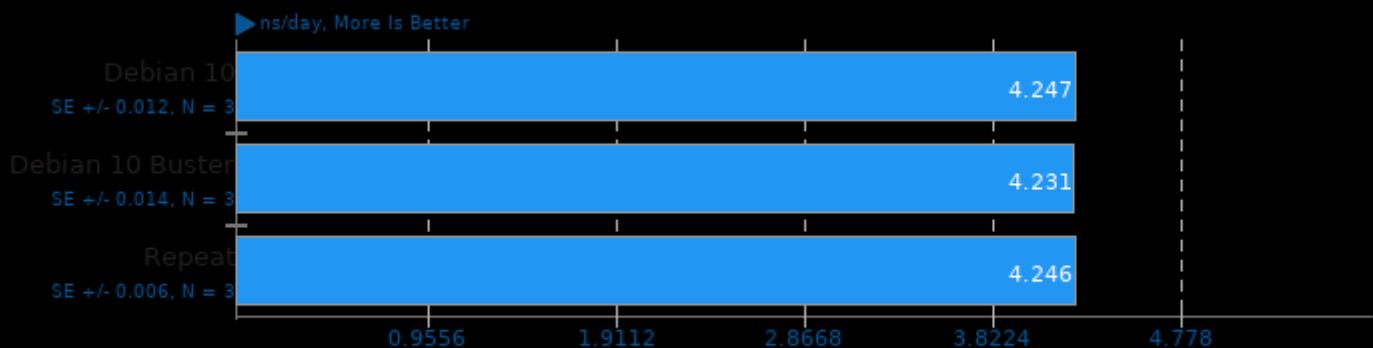
Model: 20k Atoms



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

LAMMPS Molecular Dynamics Simulator 24Aug2020

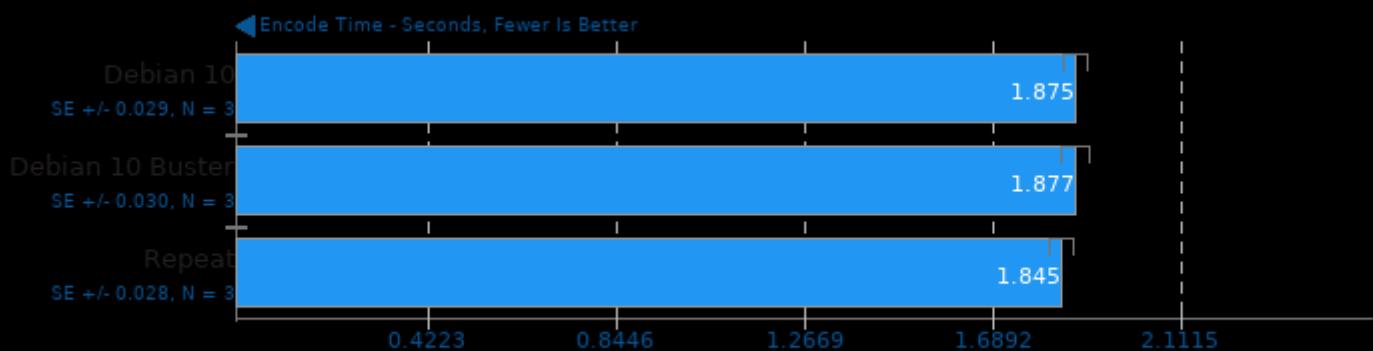
Model: Rhodopsin Protein



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

WebP Image Encode 1.1

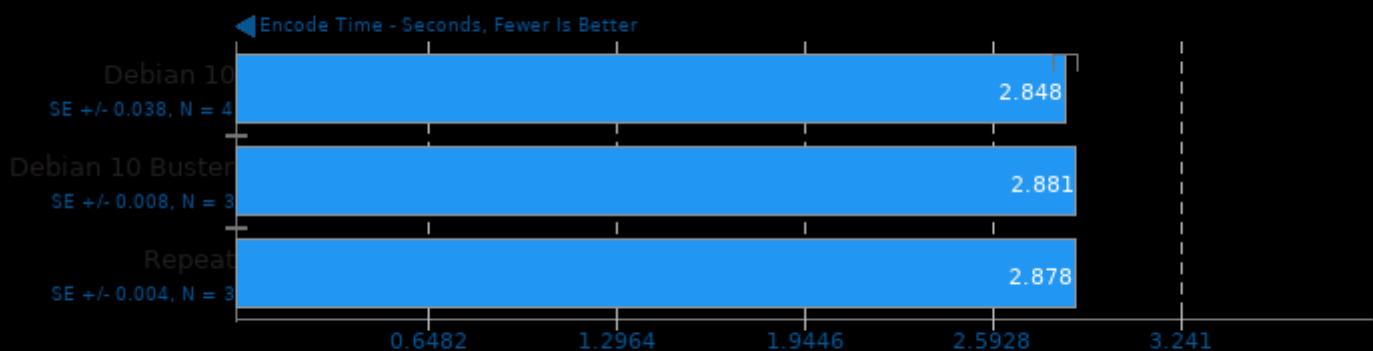
Encode Settings: Default



1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff

WebP Image Encode 1.1

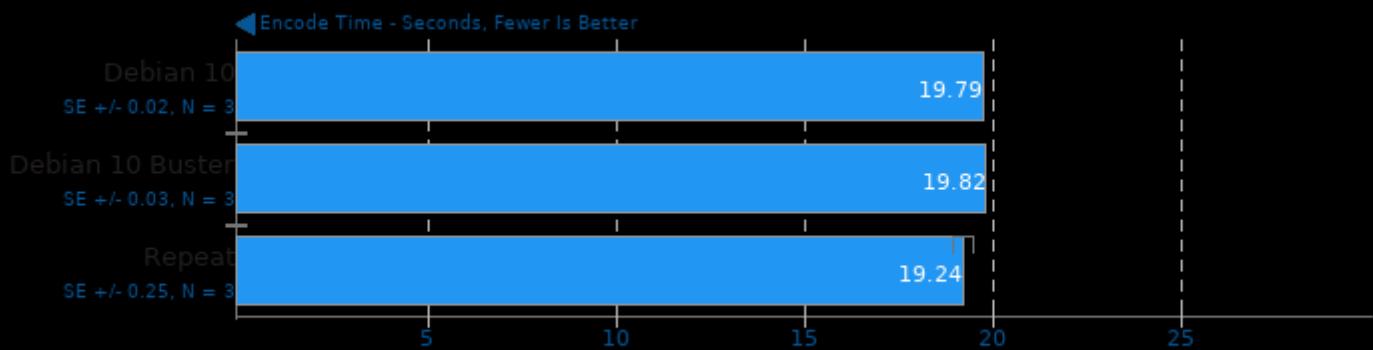
Encode Settings: Quality 100



1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff

WebP Image Encode 1.1

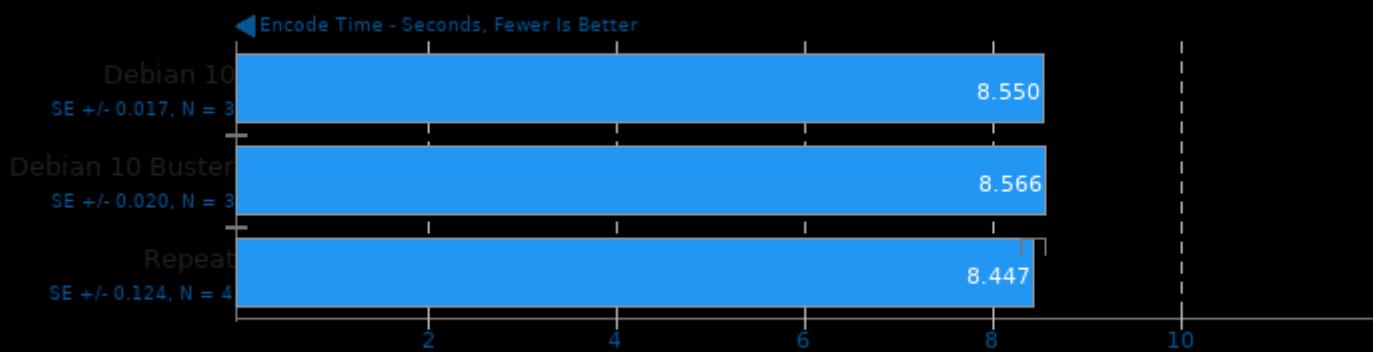
Encode Settings: Quality 100, Lossless



1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff

WebP Image Encode 1.1

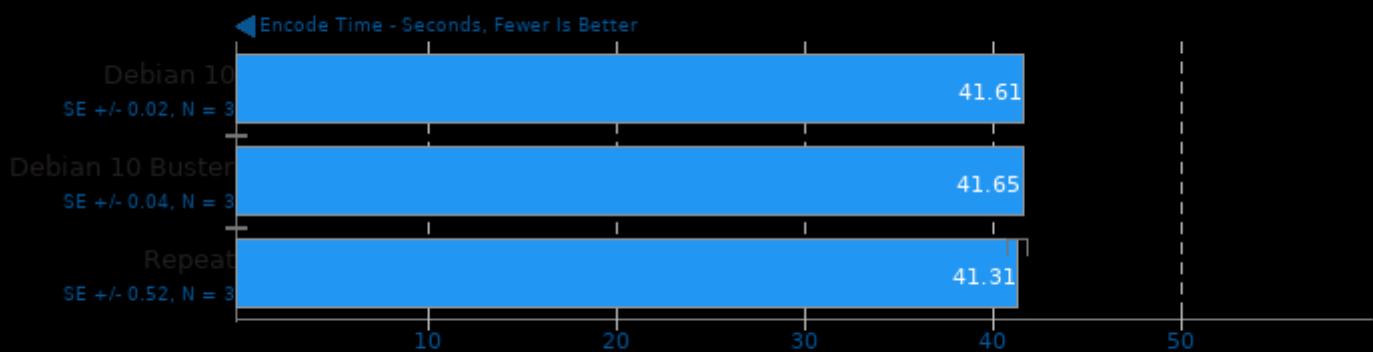
Encode Settings: Quality 100, Highest Compression



1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff

WebP Image Encode 1.1

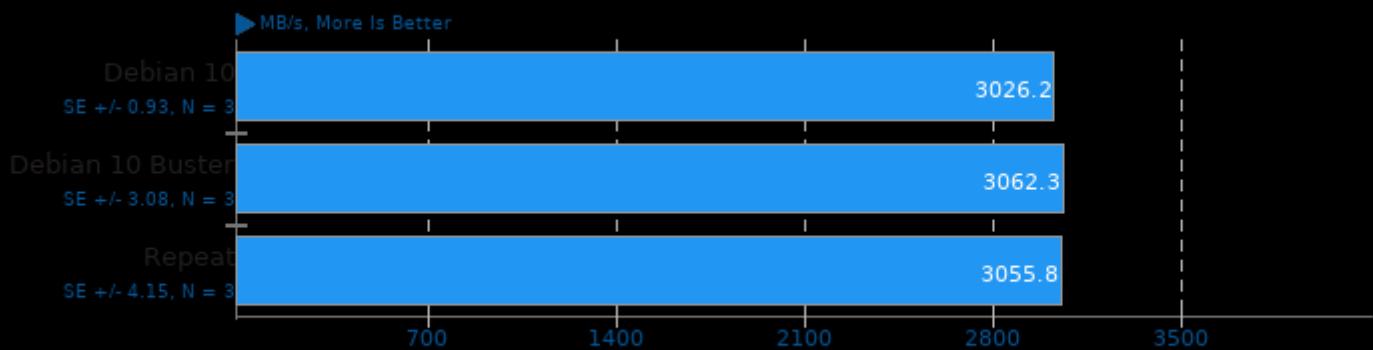
Encode Settings: Quality 100, Lossless, Highest Compression



1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff

Zstd Compression 1.4.5

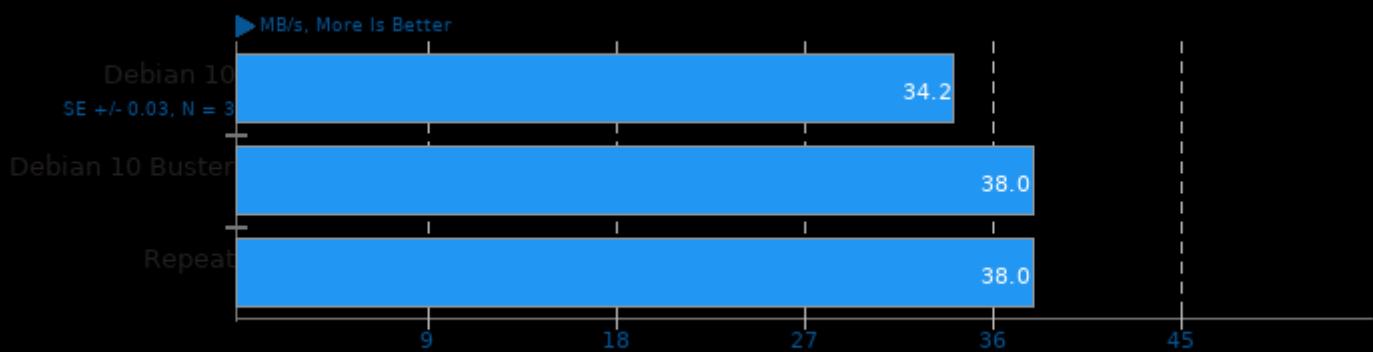
Compression Level: 3



1. (CC) gcc options: -O3 -pthread -lz -llzma

Zstd Compression 1.4.5

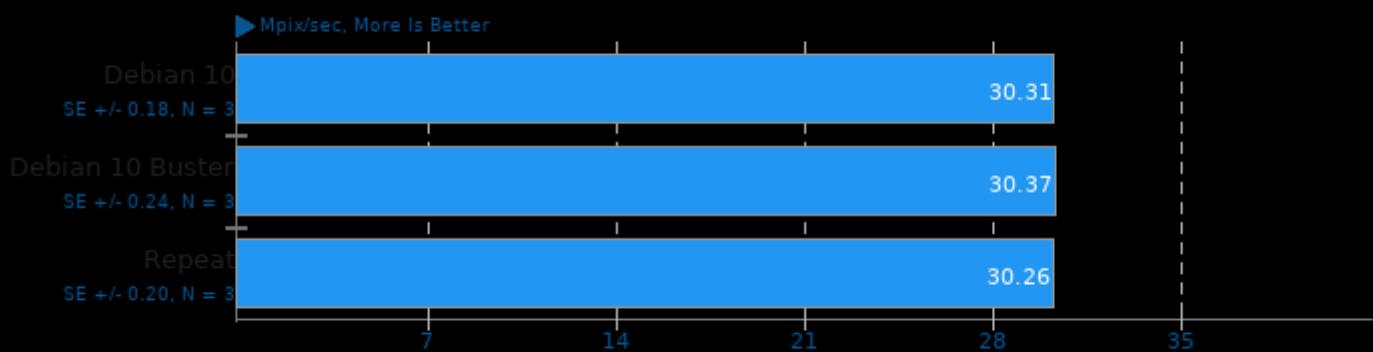
Compression Level: 19



1. (CC) gcc options: -O3 -pthread -lz -llzma

LibRaw 0.20

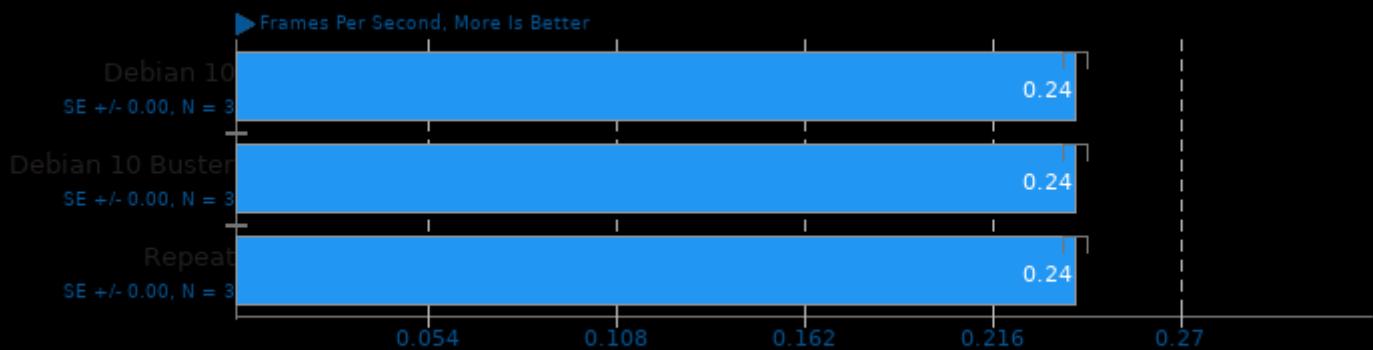
Post-Processing Benchmark



1. (CXX) g++ options: -O2 -fopenmp -ljpeg -lz -lm

AOM AV1 2.0

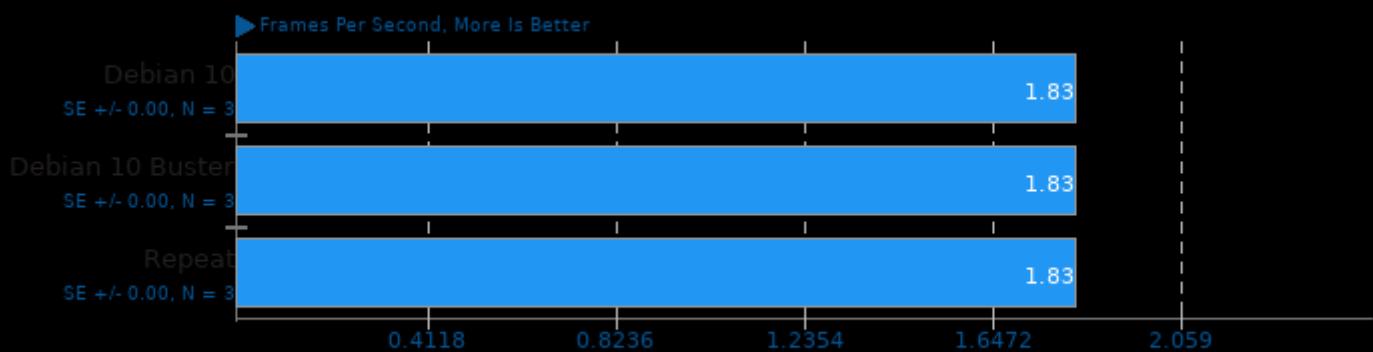
Encoder Mode: Speed 0 Two-Pass



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

AOM AV1 2.0

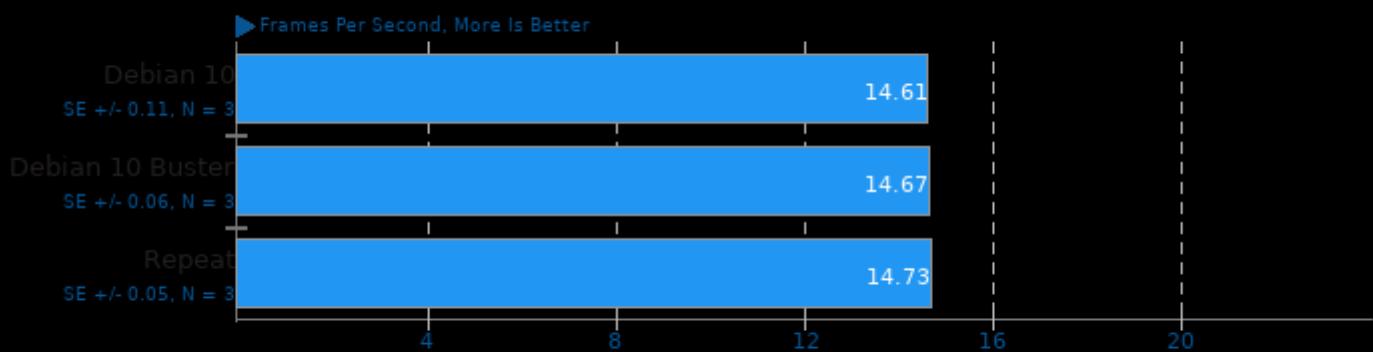
Encoder Mode: Speed 4 Two-Pass



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

AOM AV1 2.0

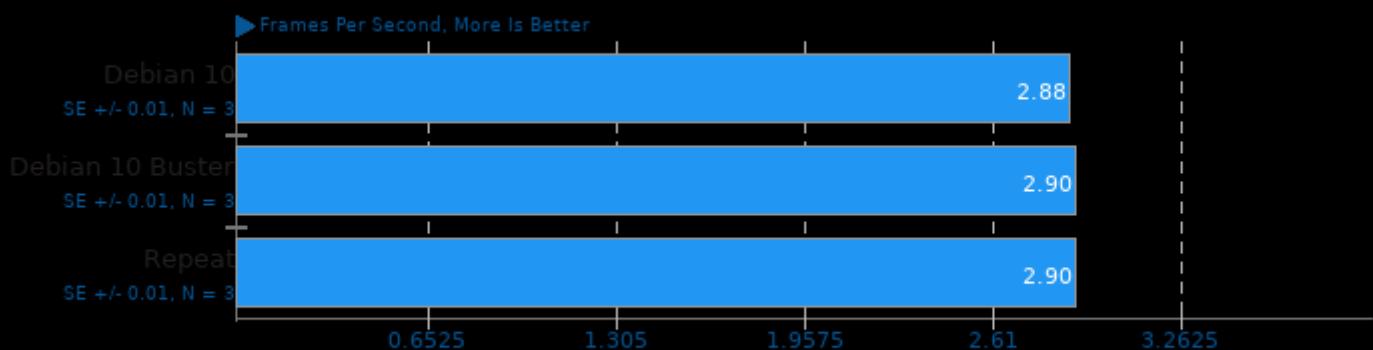
Encoder Mode: Speed 6 Realtime



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

AOM AV1 2.0

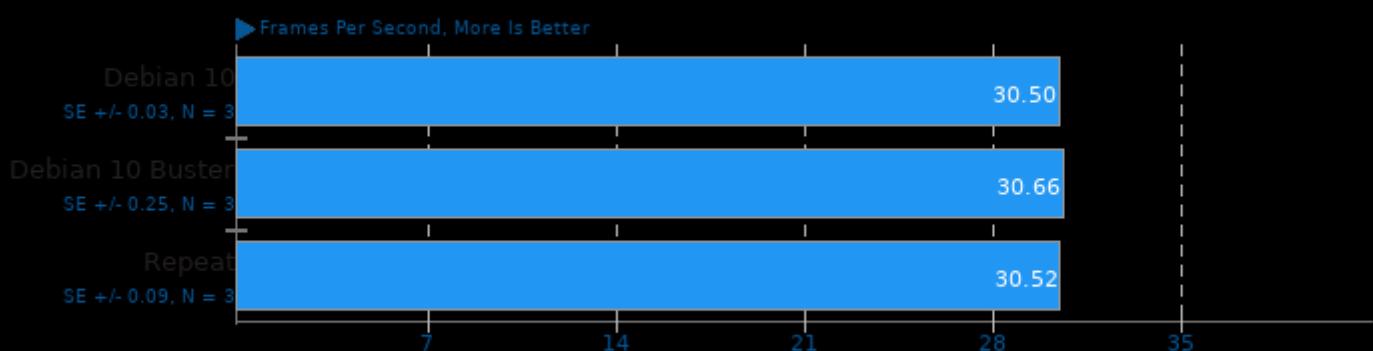
Encoder Mode: Speed 6 Two-Pass



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

AOM AV1 2.0

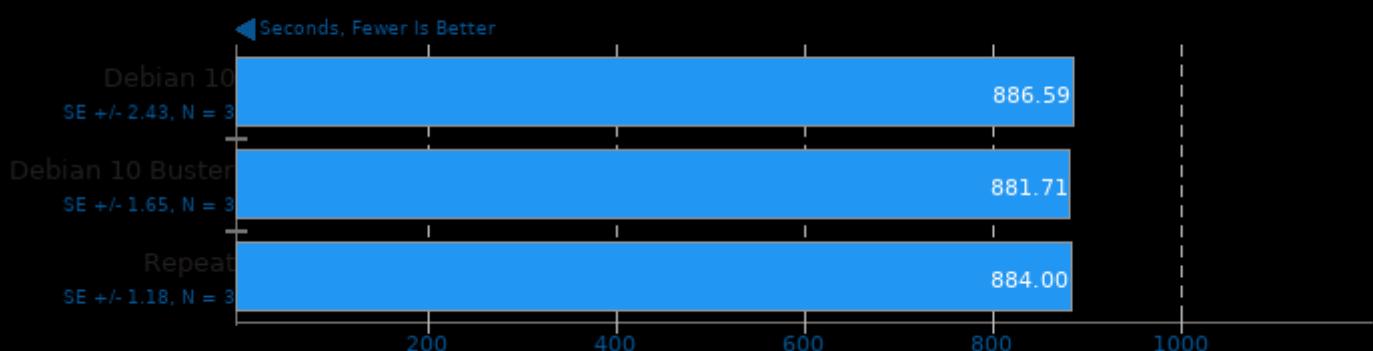
Encoder Mode: Speed 8 Realtime



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

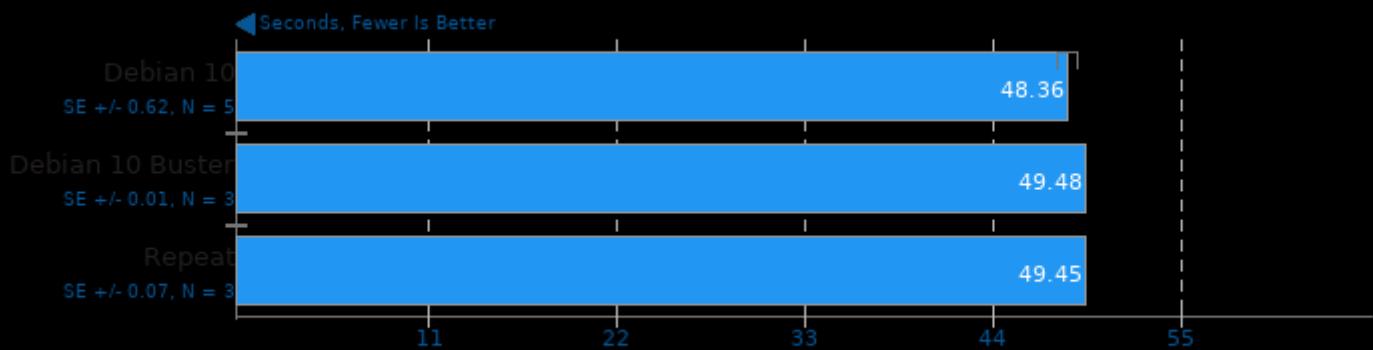
Timed LLVM Compilation 10.0

Time To Compile



ddraw

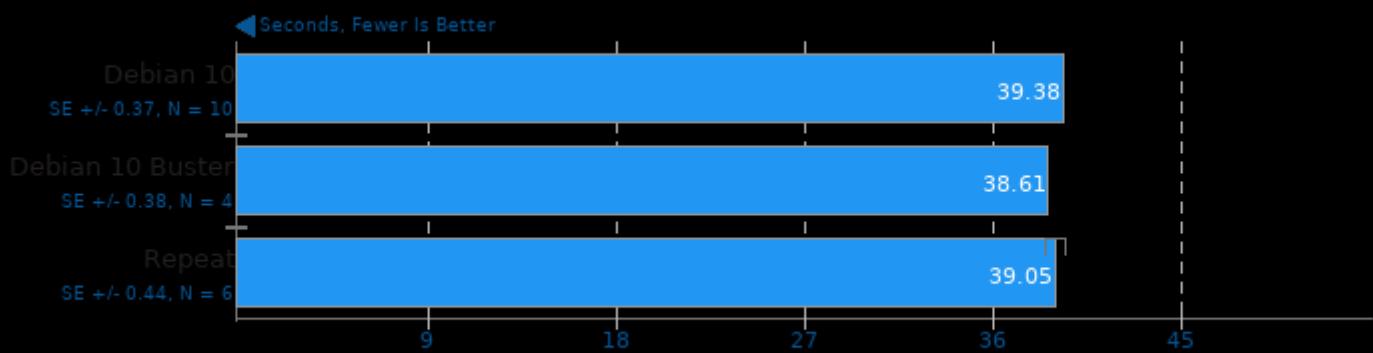
RAW To PPM Image Conversion



1. (CC) gcc options: -lm

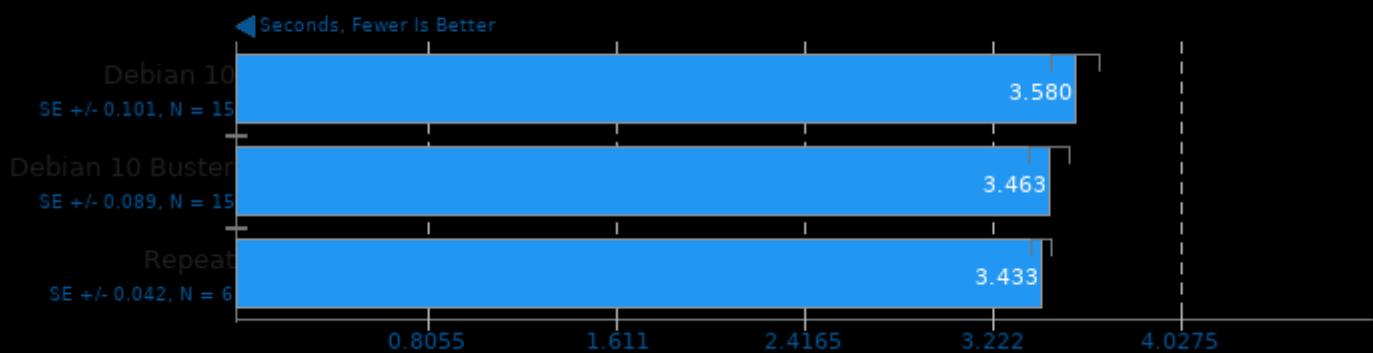
eSpeak-NG Speech Engine 20200907

Text-To-Speech Synthesis



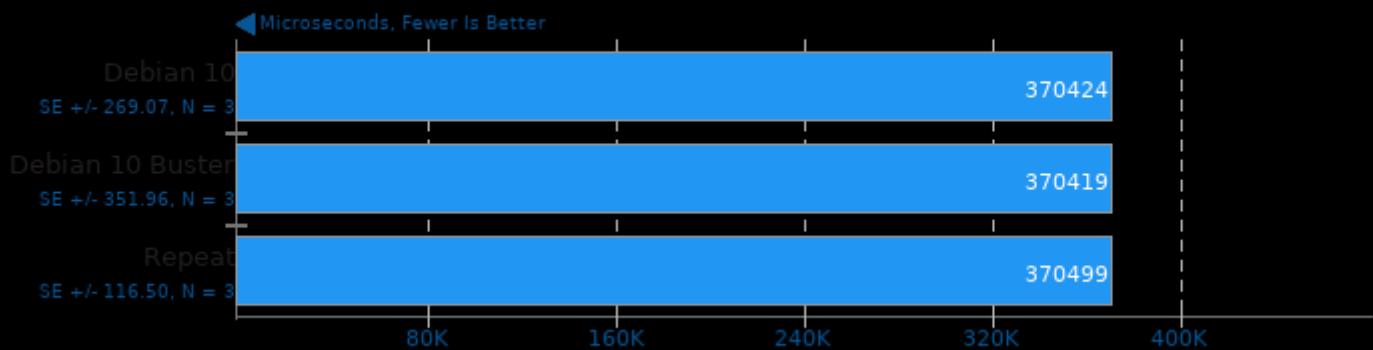
1. (CC) gcc options: -O2 -std=c99

System GZIP Decompression



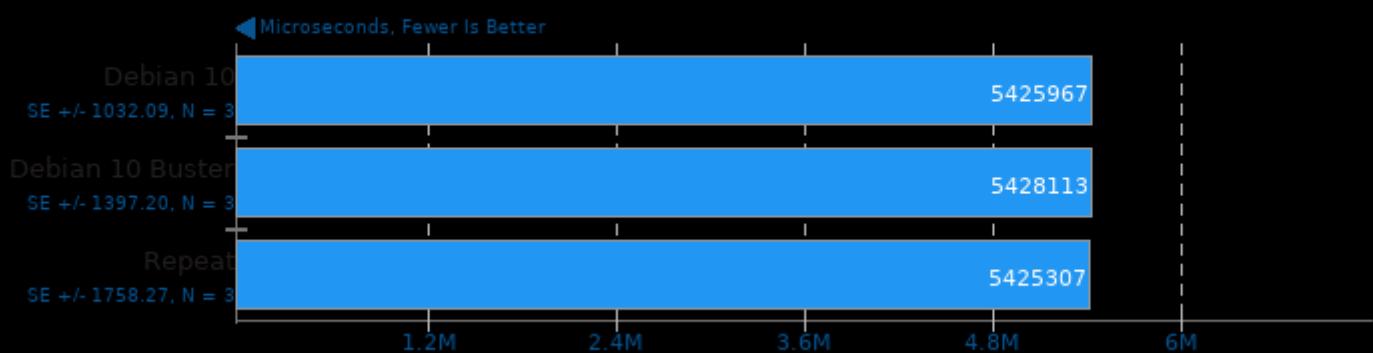
TensorFlow Lite 2020-08-23

Model: SqueezeNet



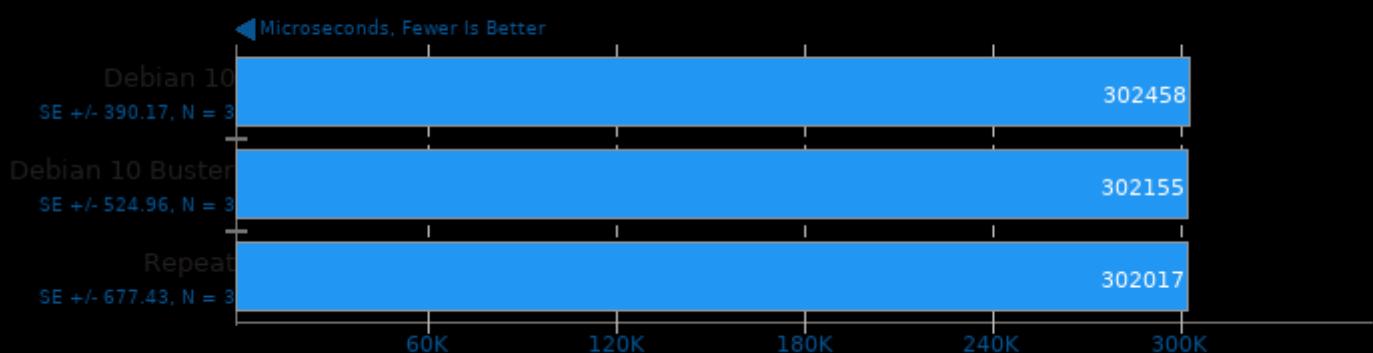
TensorFlow Lite 2020-08-23

Model: Inception V4



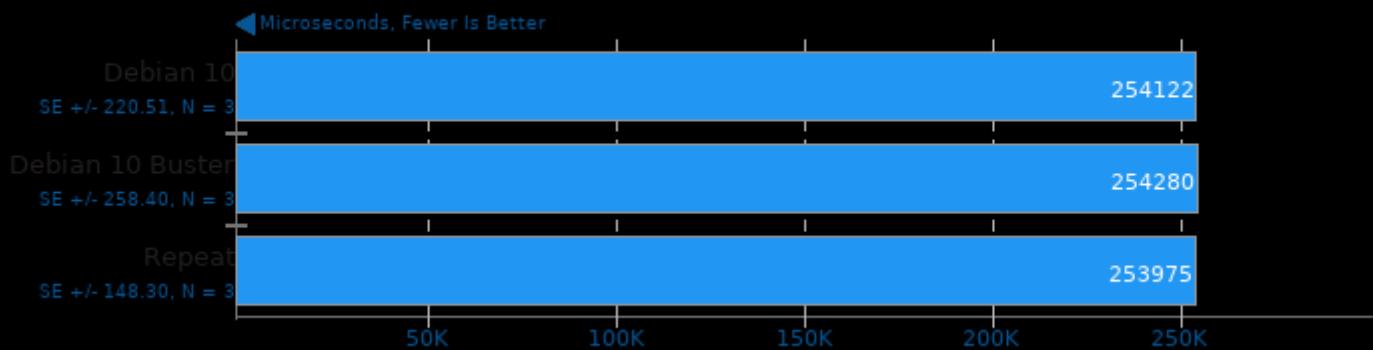
TensorFlow Lite 2020-08-23

Model: NASNet Mobile



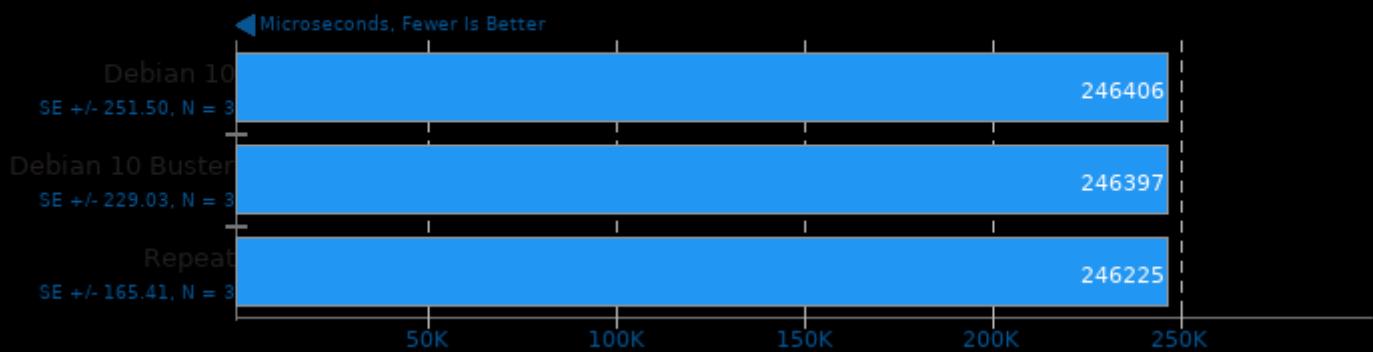
TensorFlow Lite 2020-08-23

Model: Mobilenet Float



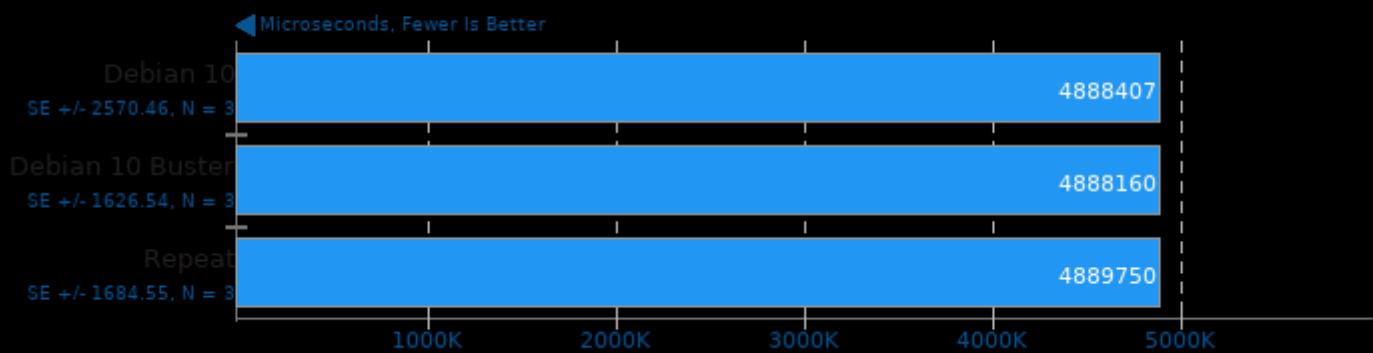
TensorFlow Lite 2020-08-23

Model: Mobilenet Quant



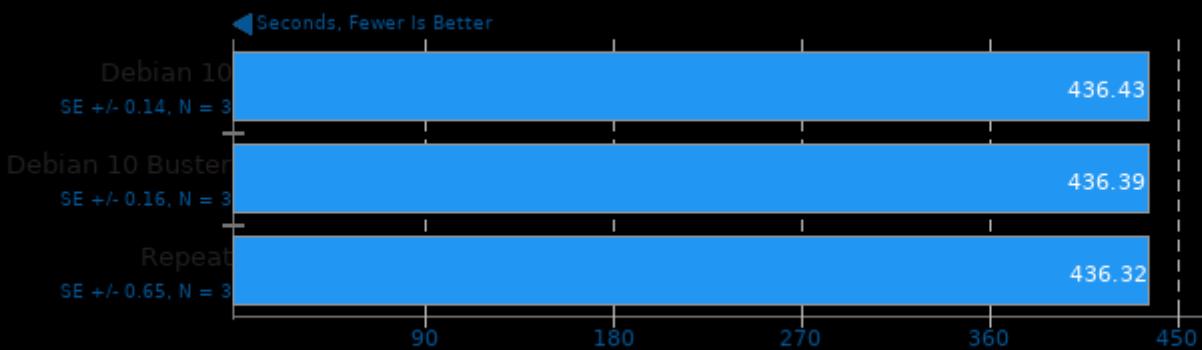
TensorFlow Lite 2020-08-23

Model: Inception ResNet V2



GPAW 20.1

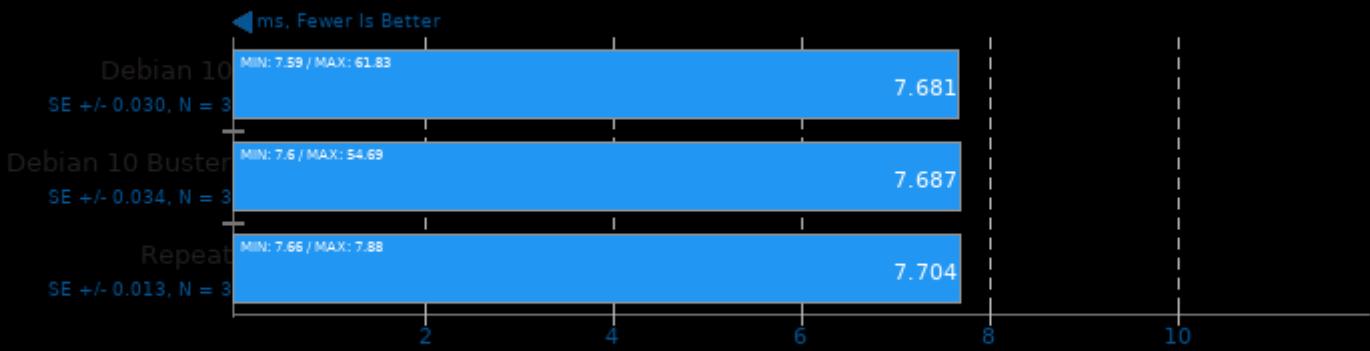
Input: Carbon Nanotube



1. (CC) gcc options: -pthread -shared -lxc -lblas -lmpi

Mobile Neural Network 2020-09-17

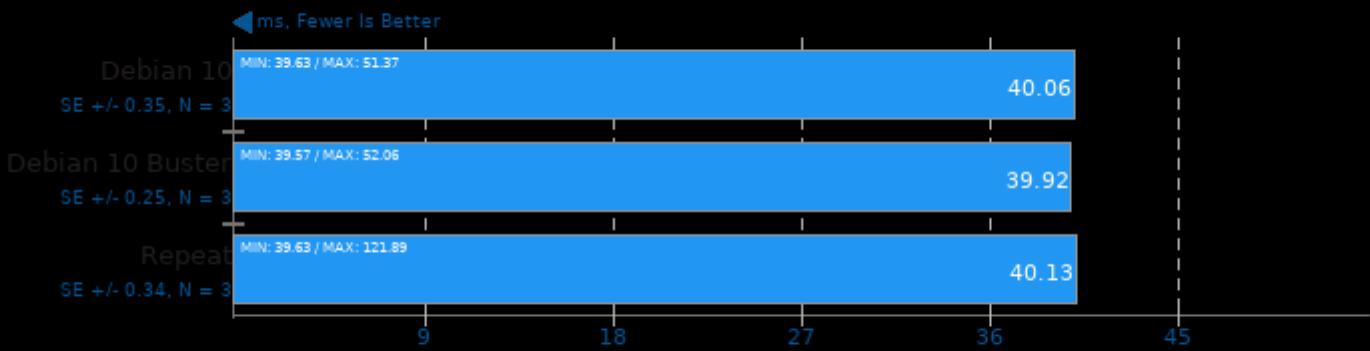
Model: SqueezeNetV1.0



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 2020-09-17

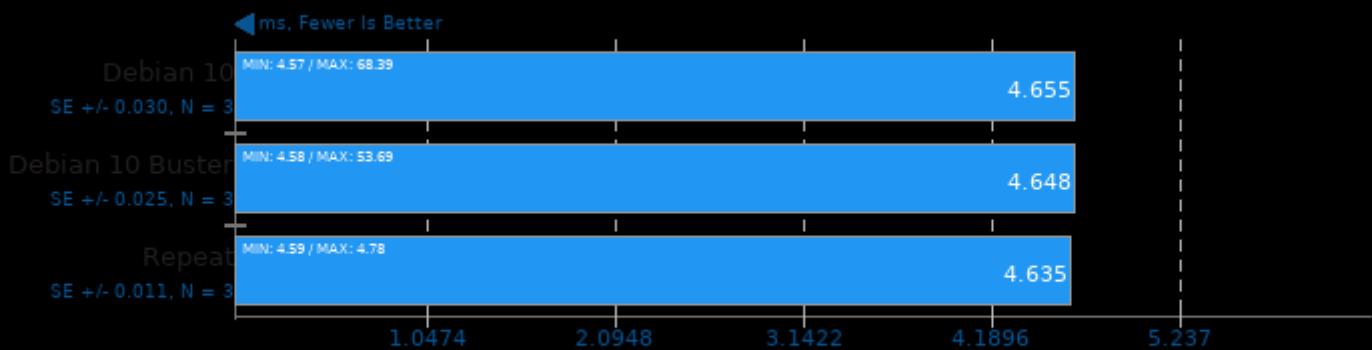
Model: resnet-v2-50



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 2020-09-17

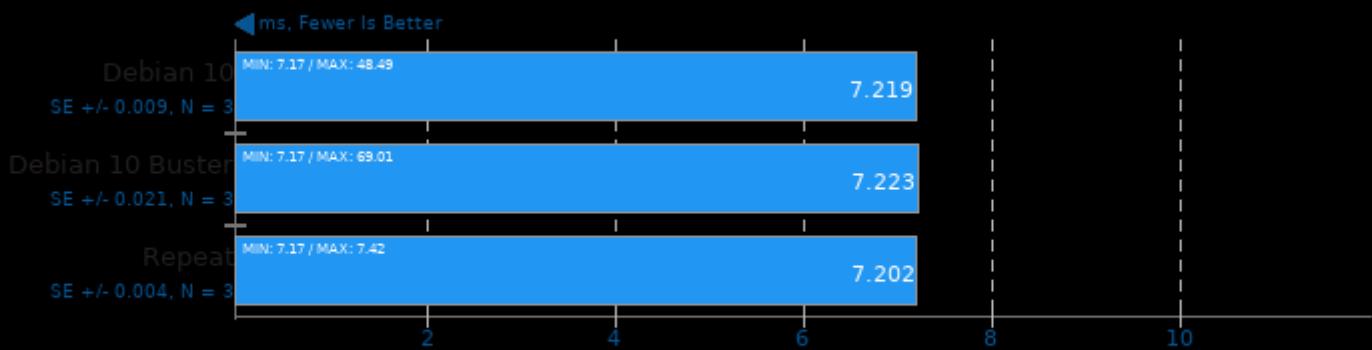
Model: MobileNetV2_224



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

Mobile Neural Network 2020-09-17

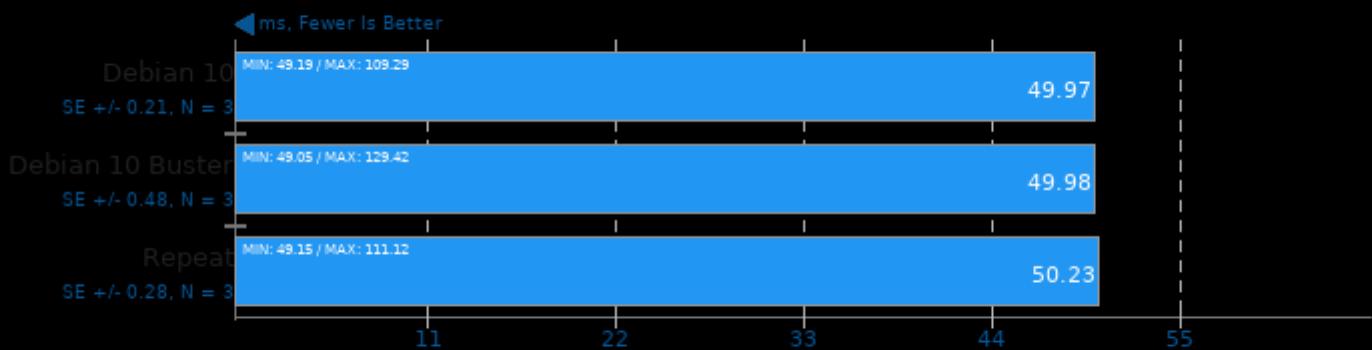
Model: mobilenet-v1-1.0



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

Mobile Neural Network 2020-09-17

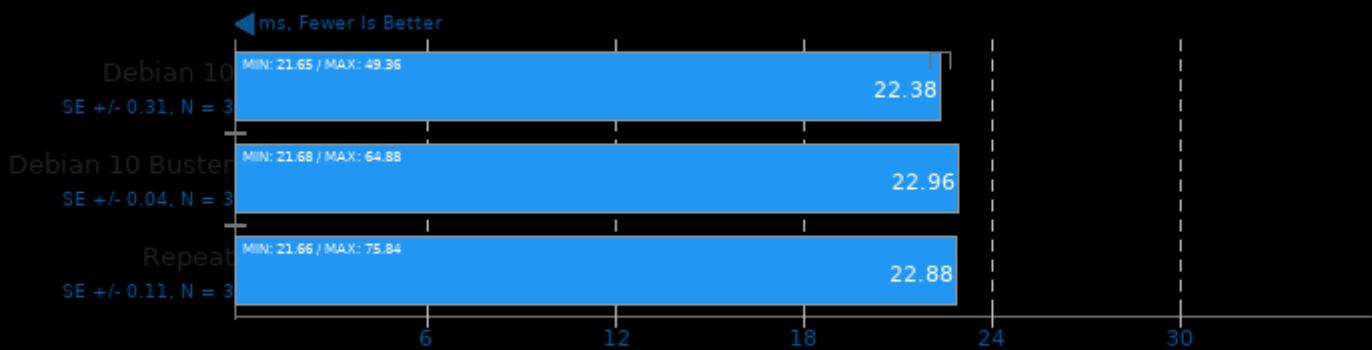
Model: inception-v3



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

NCNN 20200916

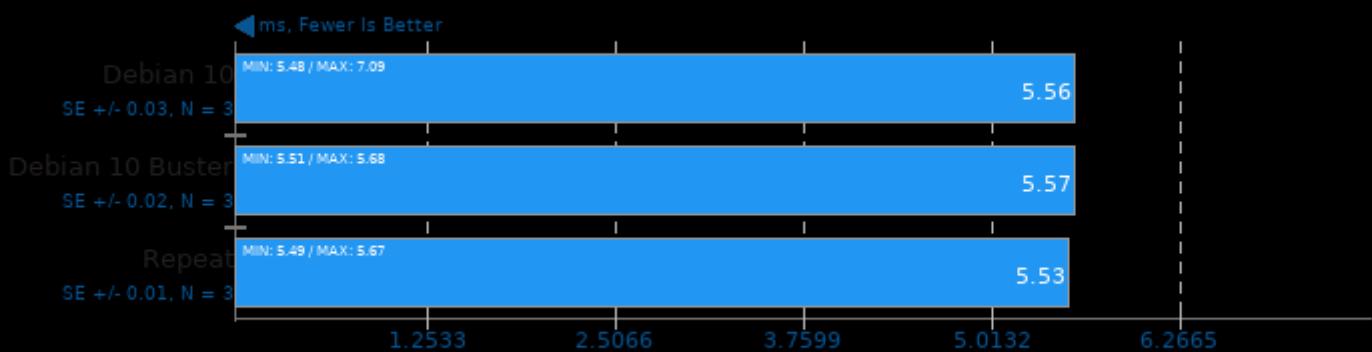
Target: CPU - Model: squeezezenet_int8



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

NCNN 20200916

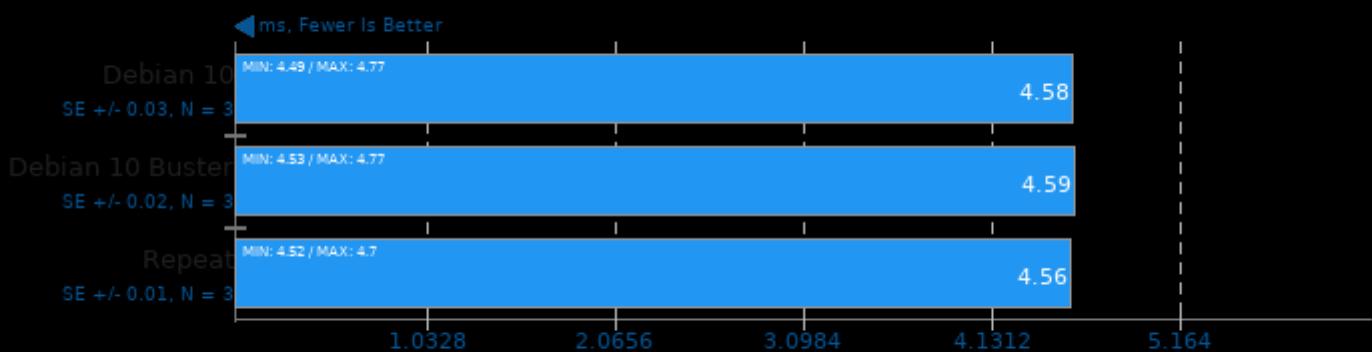
Target: CPU - Model: mobilenet_v3



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

NCNN 20200916

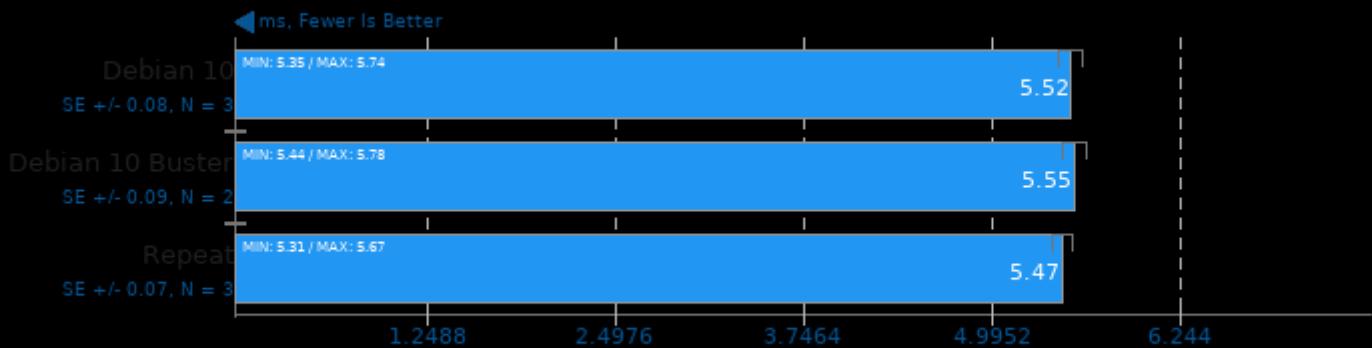
Target: CPU - Model: squeezezenet



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

NCNN 20200916

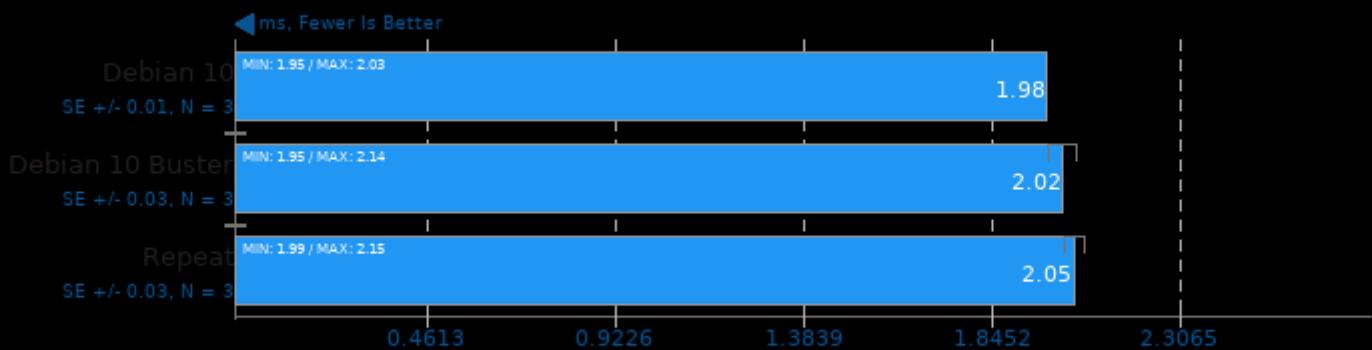
Target: CPU - Model: mnasnet



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

NCNN 20200916

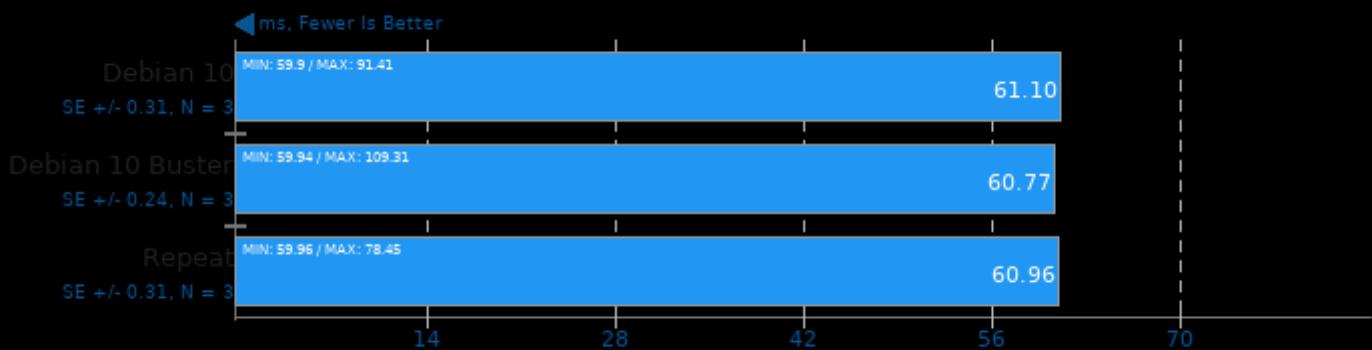
Target: CPU - Model: blazeface



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

NCNN 20200916

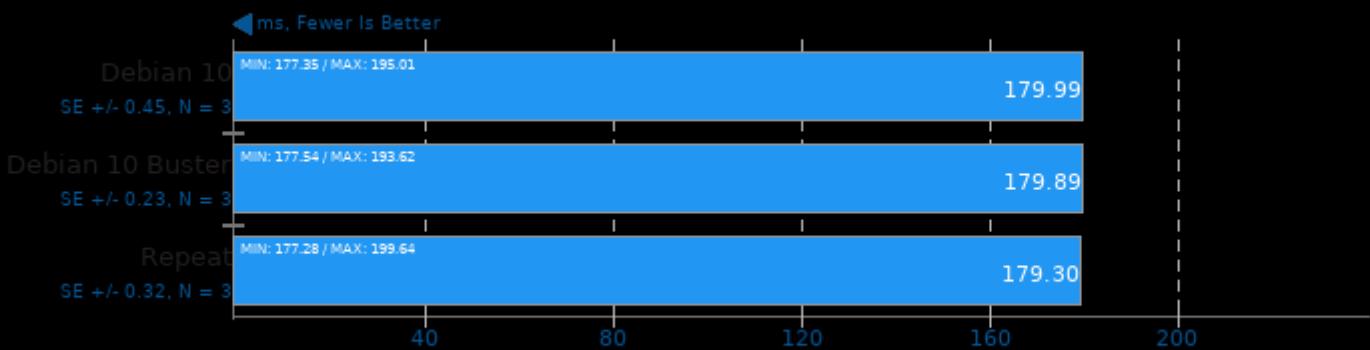
Target: CPU - Model: googlenet_int8



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

NCNN 20200916

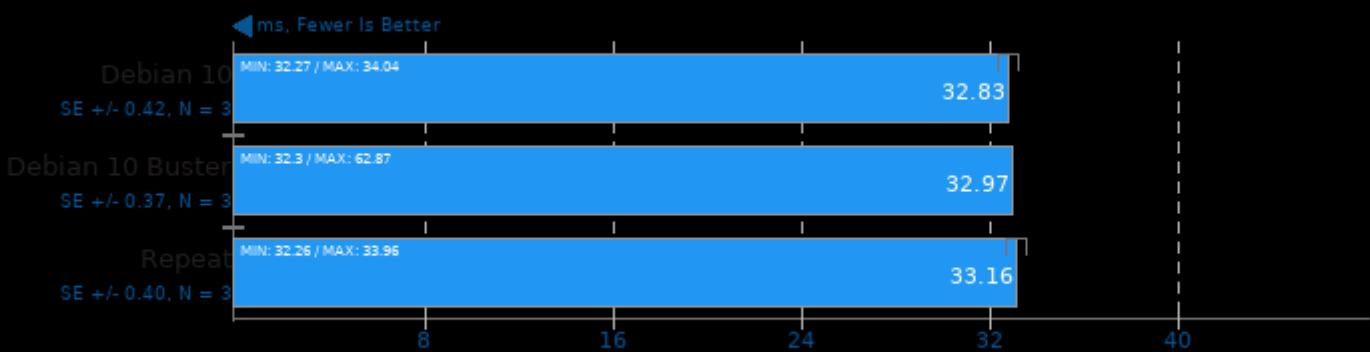
Target: CPU - Model: vgg16_int8



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

NCNN 20200916

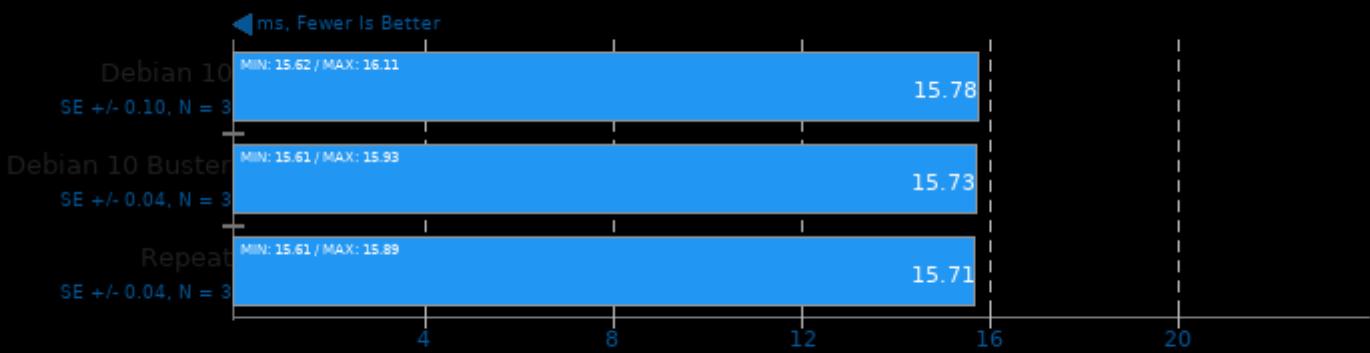
Target: CPU - Model: resnet18_int8



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

NCNN 20200916

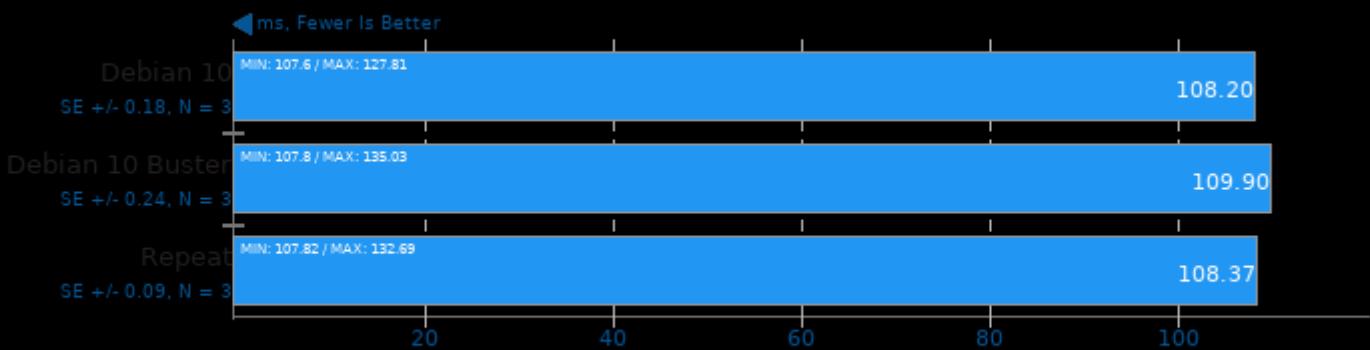
Target: CPU - Model: alexnet



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

NCNN 20200916

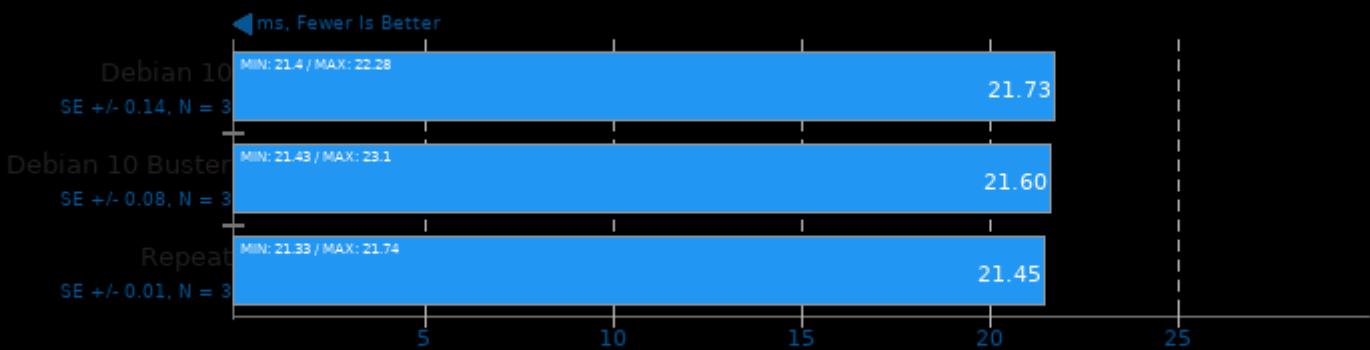
Target: CPU - Model: resnet50_int8



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

NCNN 20200916

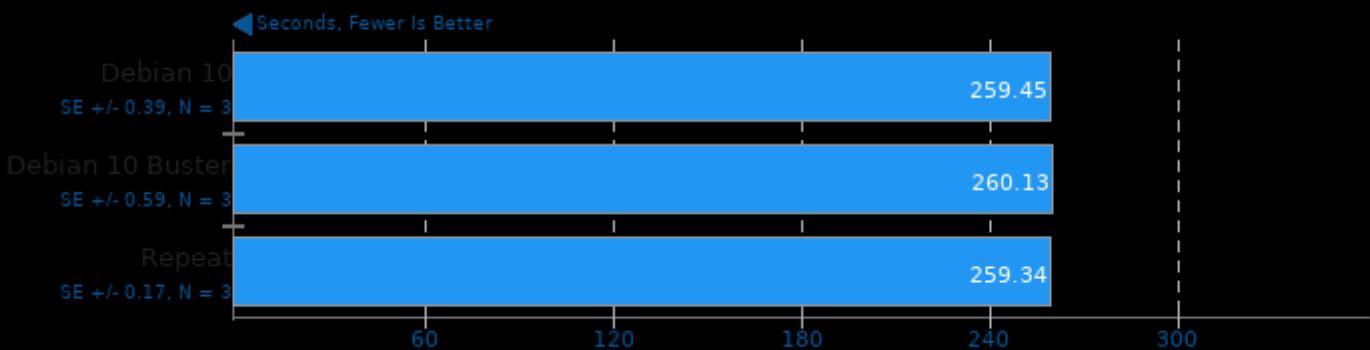
Target: CPU - Model: mobilenetv2_yolov3



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

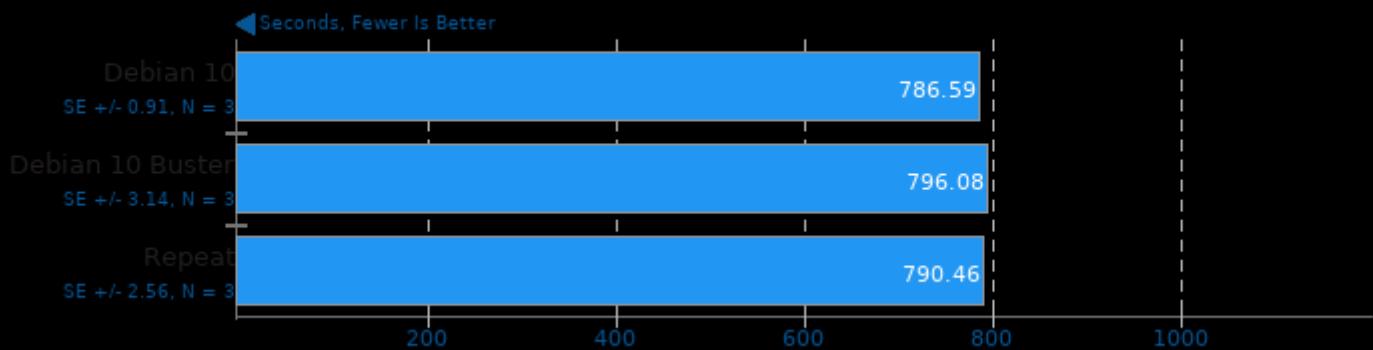
Blender 2.90

Blend File: BMW27 - Compute: CPU-Only



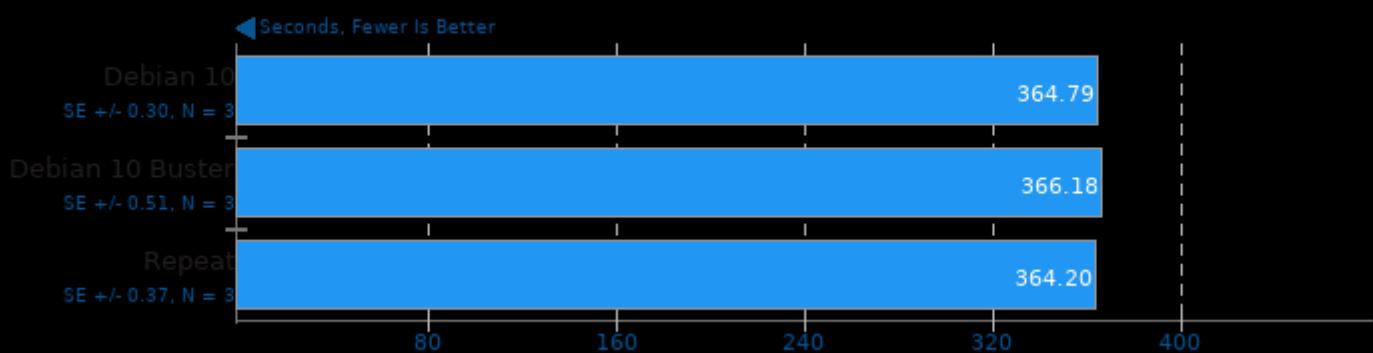
Blender 2.90

Blend File: Classroom - Compute: CPU-Only



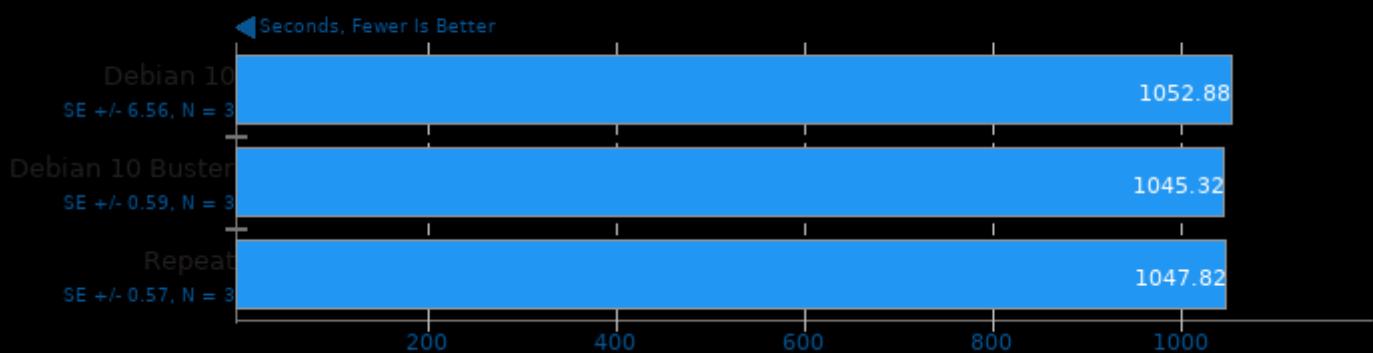
Blender 2.90

Blend File: Fishy Cat - Compute: CPU-Only



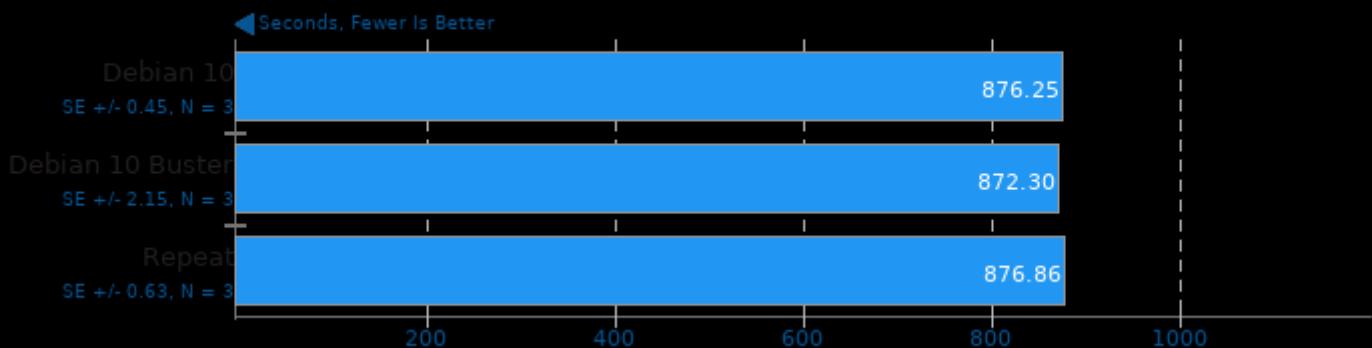
Blender 2.90

Blend File: Barbershop - Compute: CPU-Only

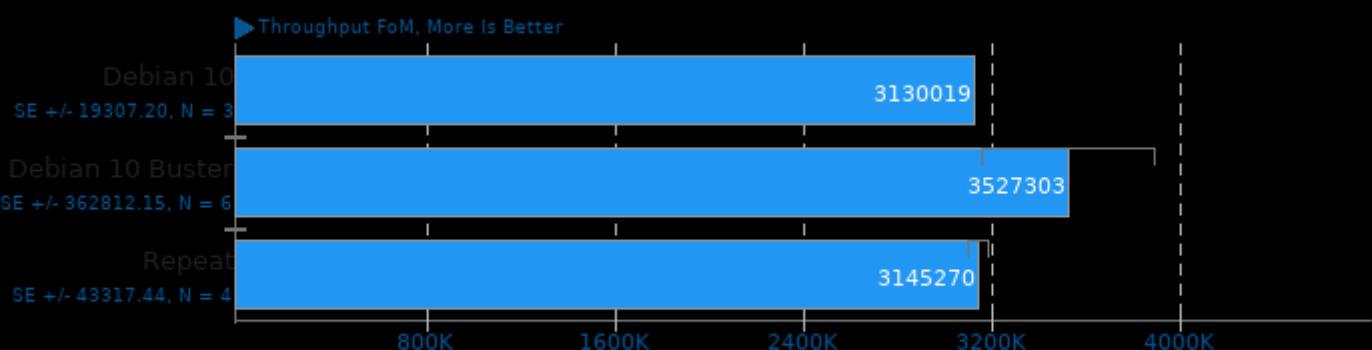


Blender 2.90

Blend File: Pabellon Barcelona - Compute: CPU-Only



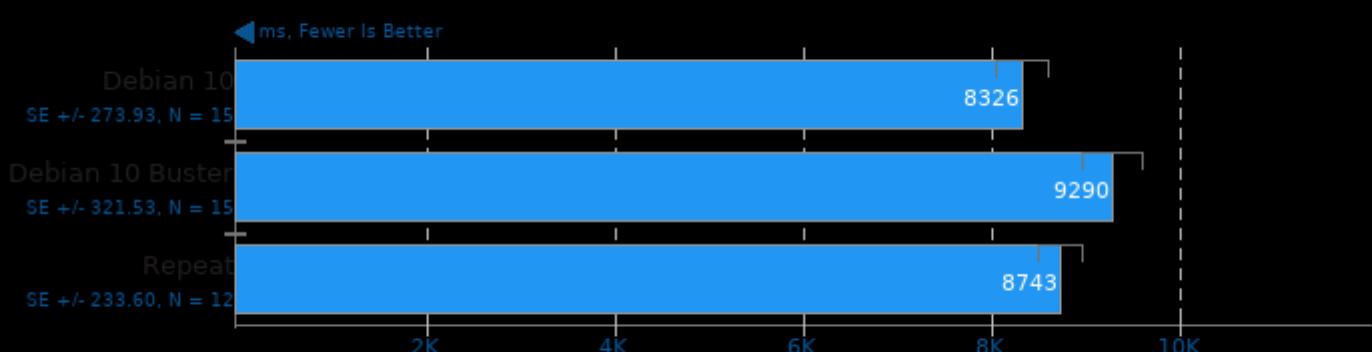
Kripke 1.2.4



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

OpenCV 4.4

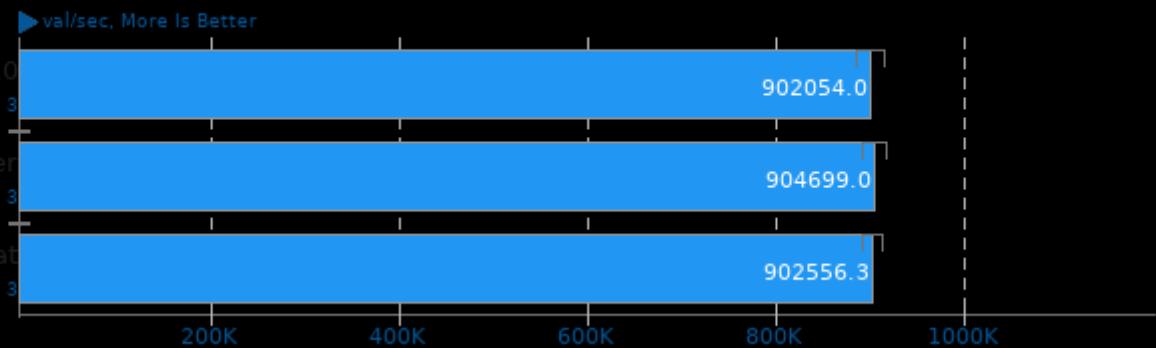
Test: DNN - Deep Neural Network



1. (CXX) g++ options: -fsigned-char -pthread -fomit-frame-pointer -ffunction-sections -fdata-sections -msse -msse2 -msse3 -fvisibility=hidden -O3 -ldl -lpthread

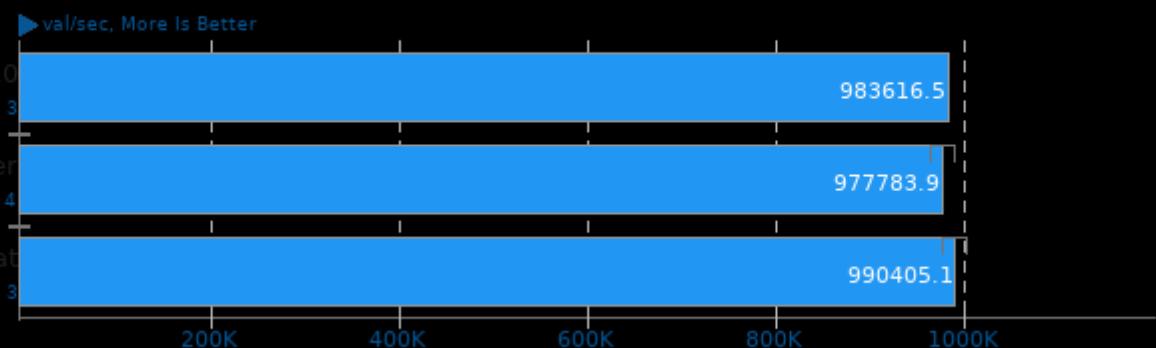
InfluxDB 1.8.2

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



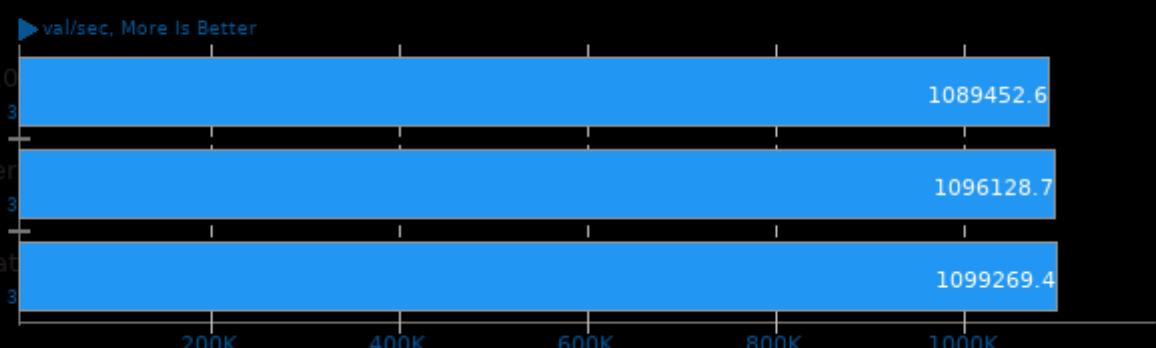
InfluxDB 1.8.2

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



InfluxDB 1.8.2

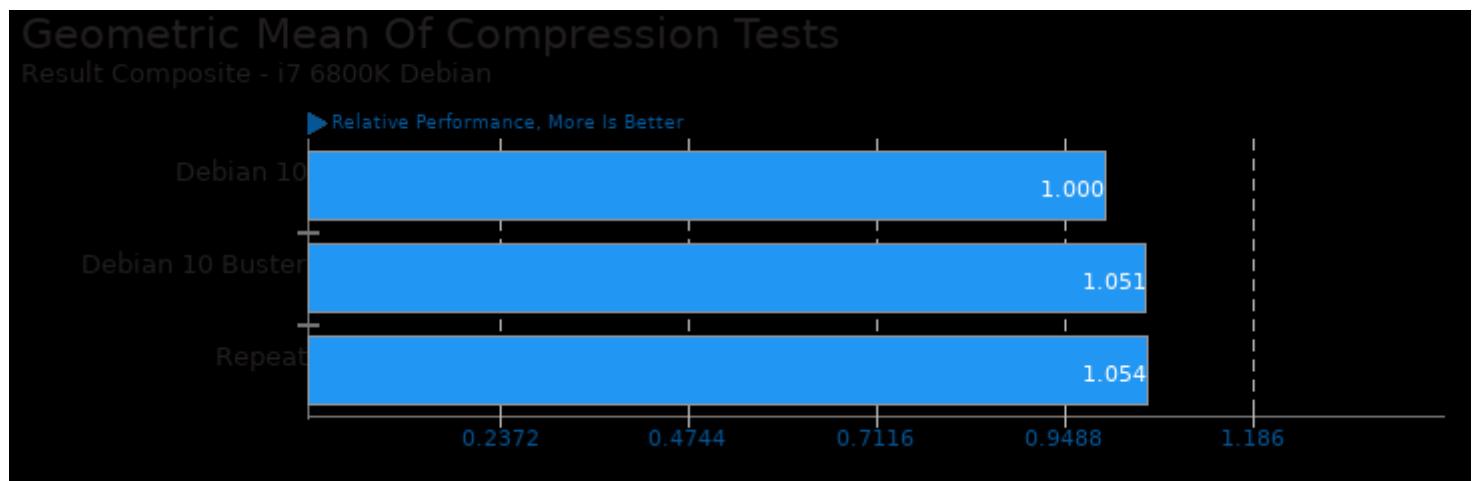
Concurrent Streams: 1024 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000



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



Geometric mean based upon tests: pts/build-llvm, pts/compress-zstd, pts/lammps and pts/aom-av1



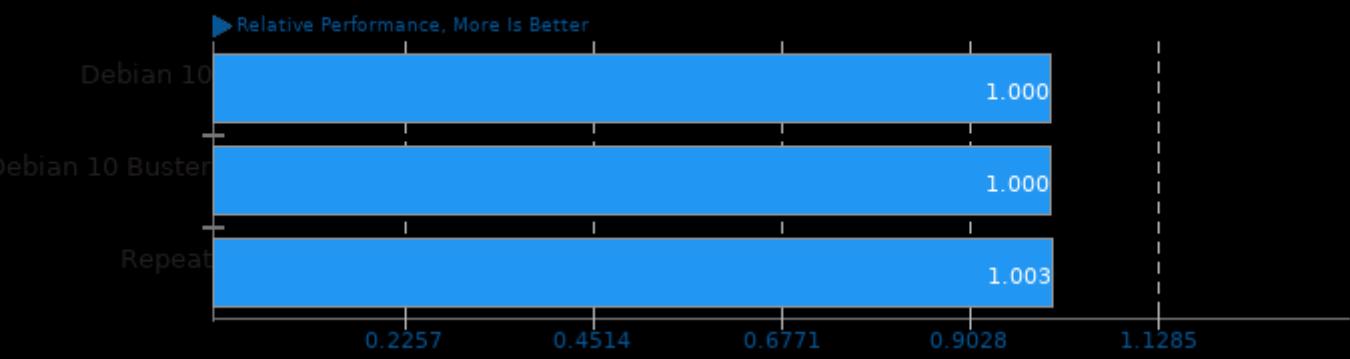
Geometric mean based upon tests: pts/compress-zstd and pts/system-decompress-gzip



Geometric mean based upon tests: pts/build-llvm, pts/compress-zstd, pts/lammps, pts/namd and pts/blender

Geometric Mean Of Creator Workloads Tests

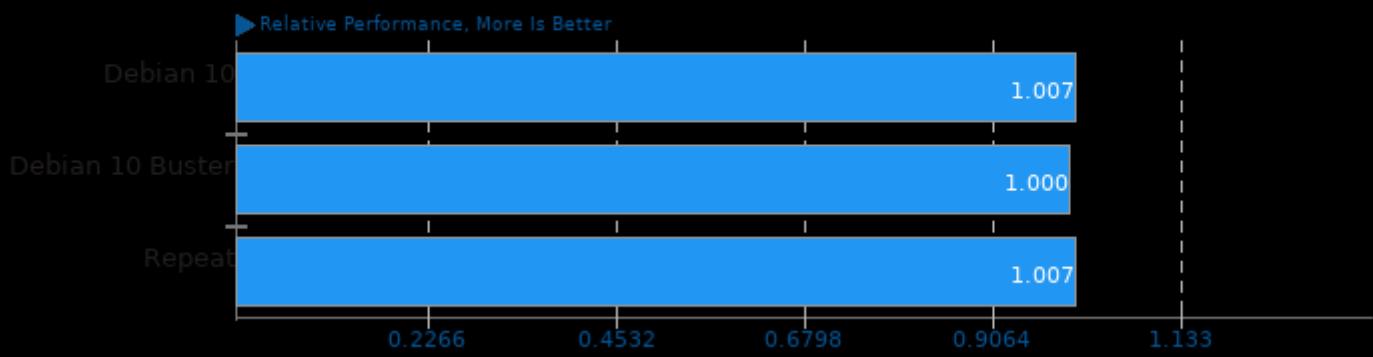
Result Composite - i7 6800K Debian



Geometric mean based upon tests: pts/blender, pts/aom-av1, pts/libraw, pts/webp, pts/dcraw and pts/espeak

Geometric Mean Of Fortran Tests

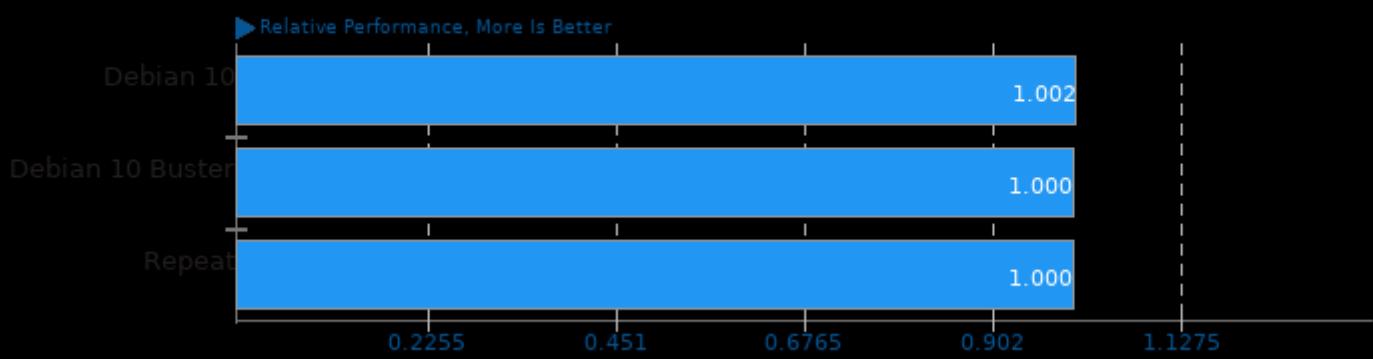
Result Composite - i7 6800K Debian



Geometric mean based upon tests: pts/incompact3d, pts/mocassin and pts/lammps

Geometric Mean Of HPC - High Performance Computing Tests

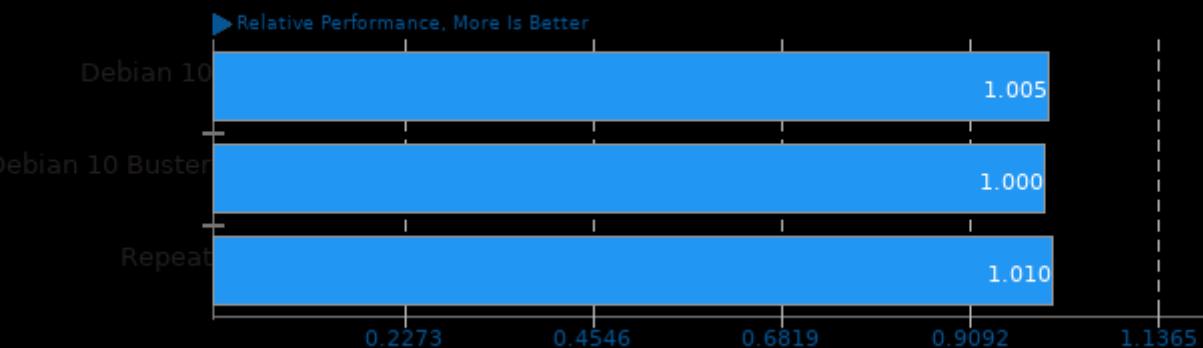
Result Composite - i7 6800K Debian



Geometric mean based upon tests: pts/namd, pts/lammps, pts/incompact3d, pts/gpaw, pts/mocassin, pts/kripke, pts/mnn, pts/ncnn, pts/openCV and pts/tensorflow-lite

Geometric Mean Of Imaging Tests

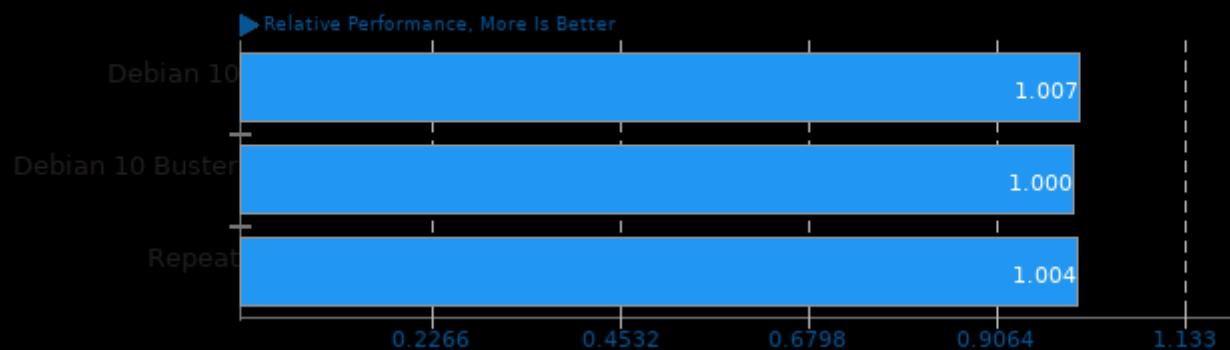
Result Composite - i7 6800K Debian



Geometric mean based upon tests: pts/libraw, pts/webp and pts/draw

Geometric Mean Of Machine Learning Tests

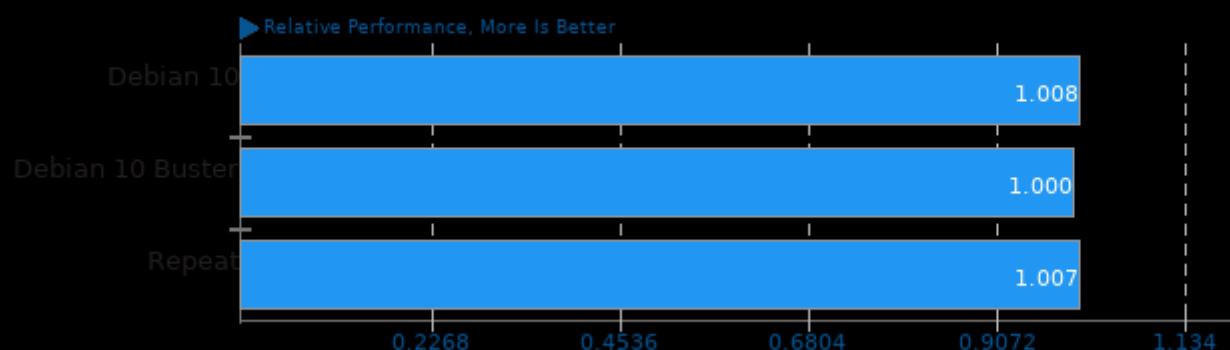
Result Composite - i7 6800K Debian



Geometric mean based upon tests: pts/mnn, pts/ncnn, pts/opencv and pts/tensorflow-lite

Geometric Mean Of Molecular Dynamics Tests

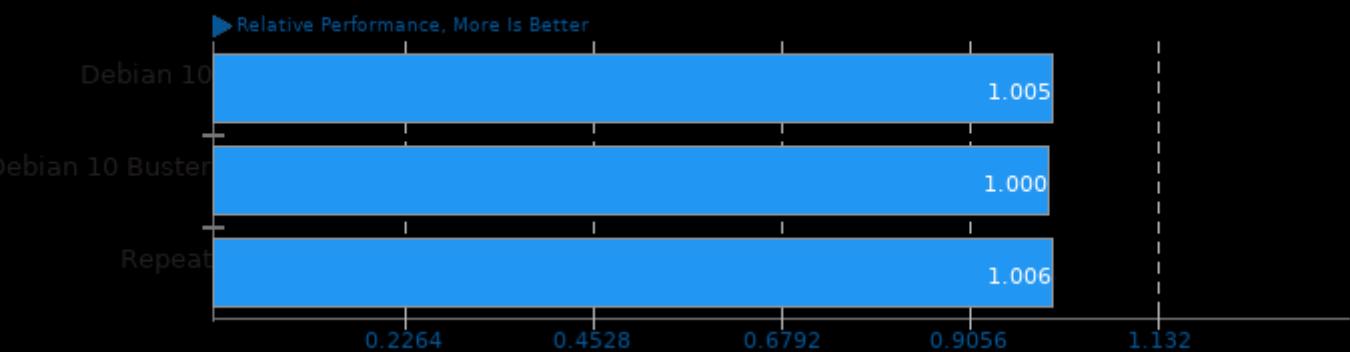
Result Composite - i7 6800K Debian



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

Geometric Mean Of MPI Benchmarks Tests

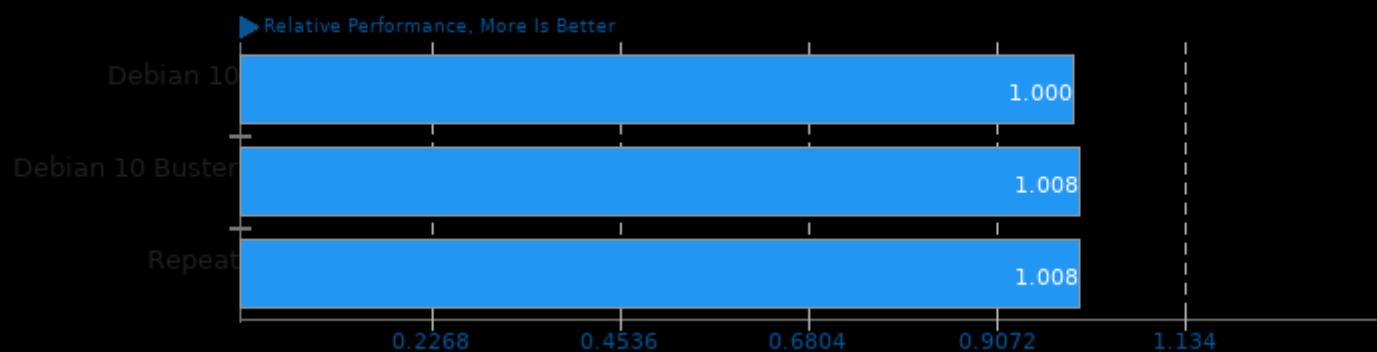
Result Composite - i7 6800K Debian



Geometric mean based upon tests: pts/lammps, pts/incompact3d, pts/gpaw and pts/mocassin

Geometric Mean Of Multi-Core Tests

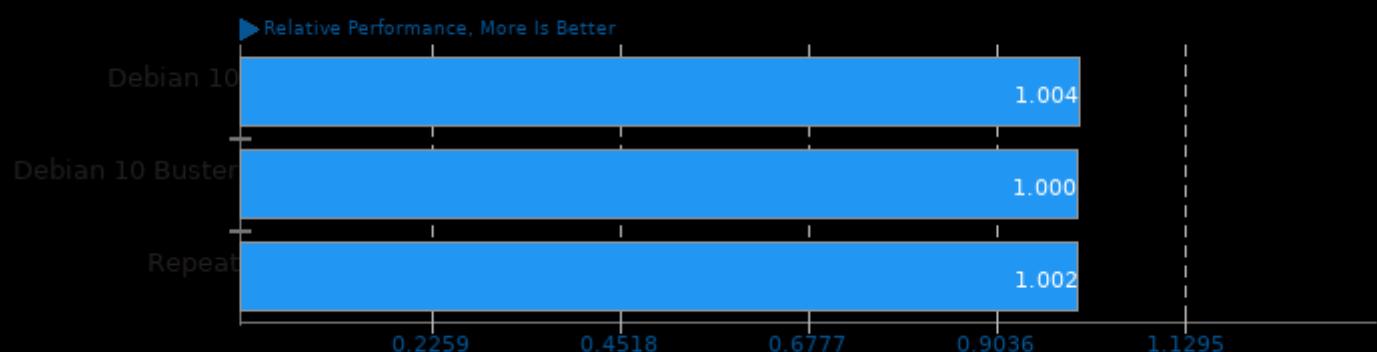
Result Composite - i7 6800K Debian



Geometric mean based upon tests: pts/blender, pts/aom-av1, pts/namd, pts/lammps, pts/compress-zstd and pts/build-llvm

Geometric Mean Of NVIDIA GPU Compute Tests

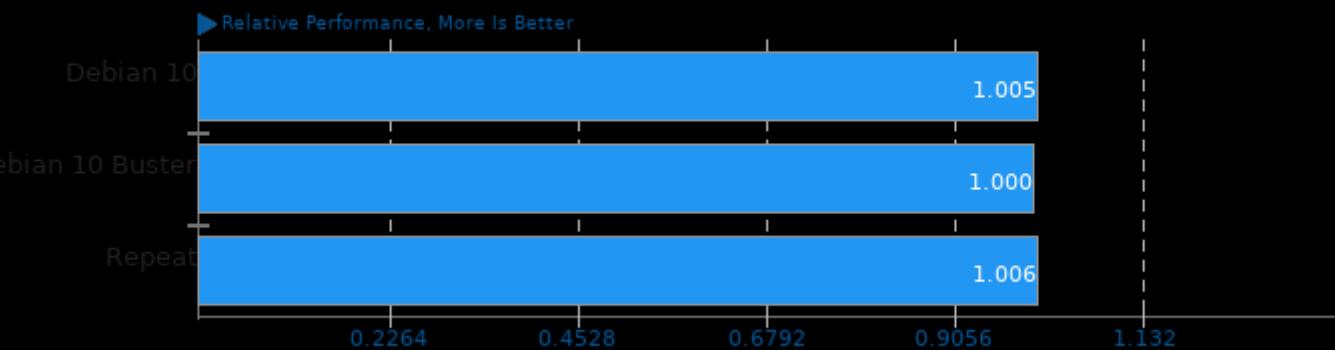
Result Composite - i7 6800K Debian



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

Geometric Mean Of OpenMPI Tests

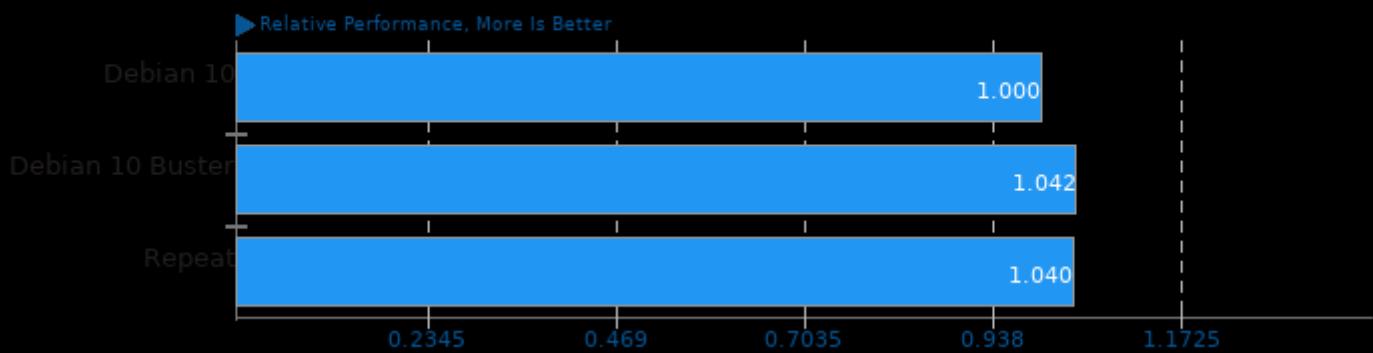
Result Composite - i7 6800K Debian



Geometric mean based upon tests: pts/incompact3d, pts/mocassin, pts/lammps and pts/gpaw

Geometric Mean Of Programmer / Developer System Benchmarks Tests

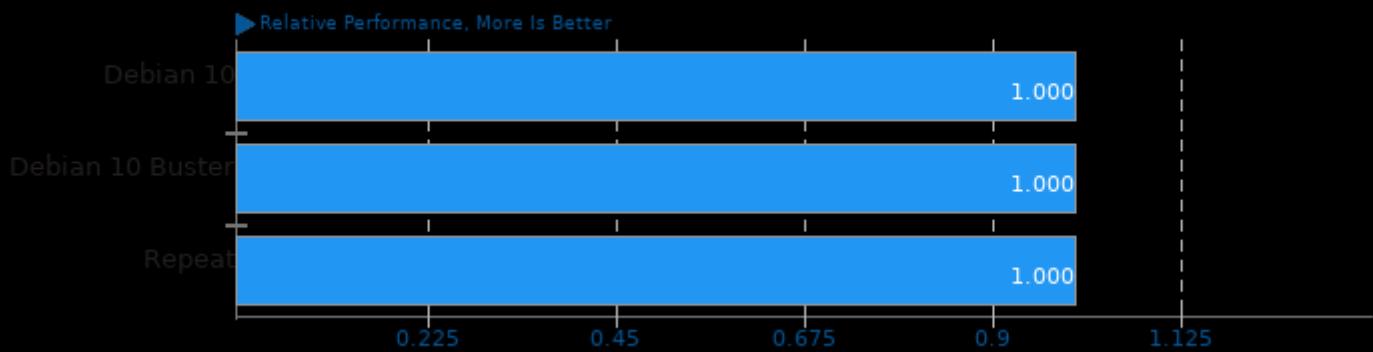
Result Composite - i7 6800K Debian



Geometric mean based upon tests: pts/compress-zstd and pts/build-llvm

Geometric Mean Of Python Tests

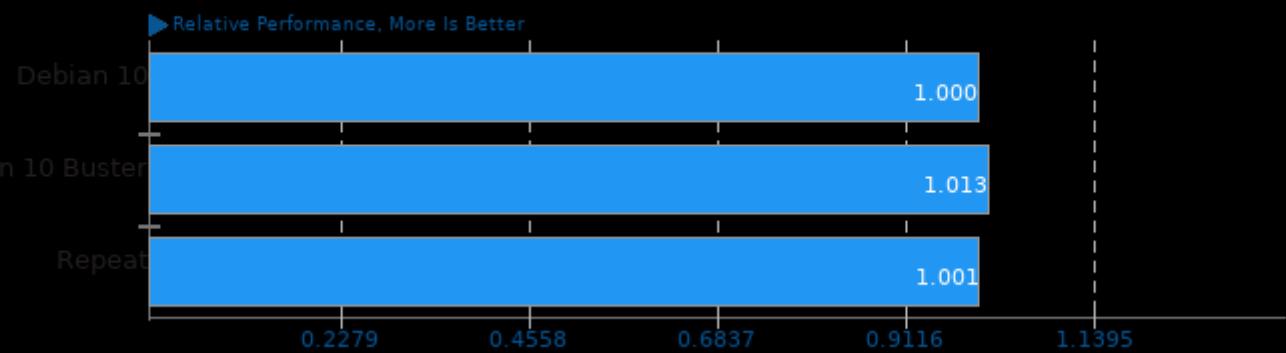
Result Composite - i7 6800K Debian



Geometric mean based upon tests: pts/build-llvm and pts/gpaw

Geometric Mean Of Scientific Computing Tests

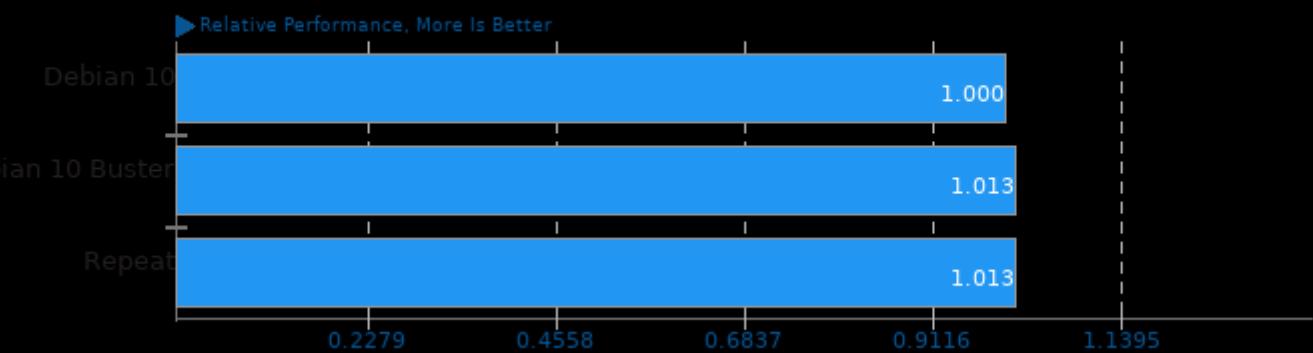
Result Composite - i7 6800K Debian



Geometric mean based upon tests: pts/namd, pts/lammps, pts/incompact3d, pts/gpaw, pts/mocassin and pts/kripke

Geometric Mean Of Server CPU Tests

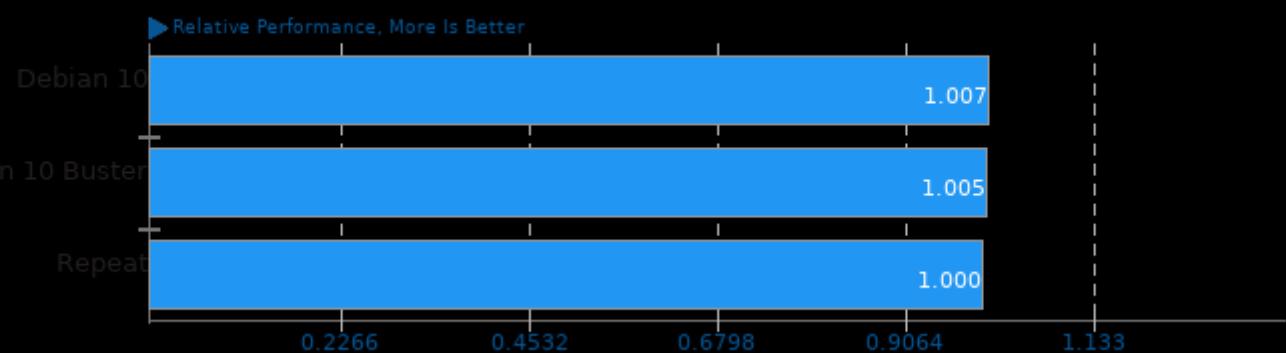
Result Composite - i7 6800K Debian



Geometric mean based upon tests: pts/namd, pts/build-llvm, pts/compress-zstd and pts/blender

Geometric Mean Of Single-Threaded Tests

Result Composite - i7 6800K Debian



Geometric mean based upon tests: pts/dcraw and pts/espeak

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 19:09.