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## Core i7 10700T Garage

Intel Core i7-10700T testing on Ubuntu 20.10 via the Phoronix Test Suite.

### Automated Executive Summary

*2 had the most wins, coming in first place for 44% of the tests.*

*Based on the geometric mean of all complete results, the fastest (2) was 1.005x the speed of the slowest (1). 3 was 0.998x the speed of 2 and 1 was 0.997x the speed of 3.*

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

*NAS Parallel Benchmarks (Test / Class: EP.D) at 1.042x*

*Cpuminer-Opt (Algorithm: Ringcoin) at 1.025x*

*OpenFOAM (Input: Motorbike 30M) at 1.021x*

*Quantum ESPRESSO (Input: AUSURF112) at 1.021x*

*NCNN (Target: CPU - Model: resnet50) at 1.019x*

*Mobile Neural Network (Model: inception-v3) at 1.019x*

*Cpuminer-Opt (Algorithm: Blake-2 S) at 1.019x*

*EtcPak (Configuration: DXT1) at 1.018x*

*HPC Challenge (Test / Class: Random Ring Latency) at 1.018x*

*HPC Challenge (Test / Class: Max Ping Pong Bandwidth) at 1.016x.*

## Test Systems:

1

2

3

Processor: Intel Core i7-10700T @ 4.50GHz (8 Cores / 16 Threads), Motherboard: Logic Supply RXM-181 (Z01-0002A026 BIOS), Chipset: Intel Comet Lake PCH, Memory: 2 x 16384 MB DDR4-2667MT/s M4S0-AGS1O5IK, Disk: 256GB TS256GMTS800, Graphics: (1200MHz), Audio: Realtek ALC233, Network: Intel I219-LM + Intel I210

OS: Ubuntu 20.10, Kernel: 5.8.0-43-generic (x86\_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9, Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4

Kernel Notes: Transparent Huge Pages: madvise  
 Compiler Notes: --build=x86\_64-linux-gnu --enable-vtable-verify --enable-werror --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgnn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/us r,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86\_64-linux-gnu --program-prefix=x86\_64-linux-gnu- --target=x86\_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v

Processor Notes: Scaling Governor: intel\_pstate powersave - CPU Microcode: 0xe0 - ThermalD 2.3

Python Notes: Python 3.8.6

Security Notes: itlb\_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre\_v1: Mitigation of usercopy/swaps barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbs: Not affected + tsx\_async\_abort: Not affected

	1	2	3
<b>NAS Parallel Benchmarks - EP.D (Mop/s)</b>	825.86	<b>831.34</b>	<b>797.77</b>
Normalized	99.34%	100%	95.96%
Standard Deviation	0.5%	0.7%	0.4%
<b>Cpuminer-Opt - Ringcoin (kH/s)</b>	<b>1013</b>	1013	<b>988.10</b>
Normalized	100%	99.95%	97.54%
Standard Deviation	1.8%	0.8%	2.3%
<b>OpenFOAM - Motorbike 30M (sec)</b>	<b>255.81</b>	250.68	<b>250.45</b>
Normalized	97.9%	99.91%	100%
Standard Deviation	2.1%	0.6%	0.6%
<b>Quantum ESPRESSO - AUSURF112 (sec)</b>	<b>3980</b>	<b>3900</b>	3940
Normalized	97.99%	100%	98.98%
Standard Deviation	0.9%		0.9%
<b>NCNN - CPU - resnet50 (ms)</b>	35.70	<b>35.47</b>	<b>36.16</b>
Normalized	99.36%	100%	98.09%
Standard Deviation	0.2%	0.3%	1.9%
<b>Mobile Neural Network - inception-v3 (ms)</b>	<b>52.376</b>	<b>51.409</b>	51.638
Normalized	98.15%	100%	99.56%
Standard Deviation	0.8%	0.4%	0.5%
<b>Cpuminer-Opt - Blake-2 S (kH/s)</b>	428473	<b>431310</b>	<b>423407</b>
Normalized	99.34%	100%	98.17%
Standard Deviation	3.4%	1.4%	5.4%
<b>Etpak - DXT1 (Mpx/s)</b>	1147	<b>1129</b>	<b>1149</b>

## Core i7 10700T Garage

	Normalized	99.87%	98.27%	100%
	Standard Deviation	0.2%	2.4%	0.1%
<b>HPC Challenge - R.R.L (usecs)</b>	<b>0.39282</b>		<b>0.38956</b>	<b>0.38605</b>
	Normalized	98.28%	99.1%	100%
	Standard Deviation	0.2%	0.2%	1.7%
<b>HPC Challenge - M.P.P.B (MB/s)</b>	<b>13427</b>		<b>13643</b>	<b>13546</b>
	Normalized	98.42%	100%	99.29%
	Standard Deviation	3.1%	0.8%	0.5%
<b>ONNX Runtime - shufflenet-v2-10 - OpenMP</b>	<b>12519</b>		<b>12530</b>	<b>12336</b>
<b>CPU (Inferences/min)</b>				
	Normalized	99.91%	100%	98.45%
	Standard Deviation	0.6%	0.8%	0.4%
<b>NCNN - CPU - yolov4-tiny (ms)</b>	<b>33.93</b>		<b>33.86</b>	<b>34.37</b>
	Normalized	99.79%	100%	98.52%
	Standard Deviation	0.2%	0.3%	1.7%
<b>Cpuminer-Opt - Magi (kH/s)</b>	<b>140.66</b>		<b>140.95</b>	<b>138.89</b>
	Normalized	99.79%	100%	98.54%
	Standard Deviation	0.7%	0.6%	1.2%
<b>TensorFlow Lite - NASNet Mobile (us)</b>	<b>296004</b>		<b>294322</b>	<b>298494</b>
	Normalized	99.43%	100%	98.6%
	Standard Deviation	1.1%	1.5%	2.1%
<b>ASKAP - tConvolve OpenMP - Gridding (Million Grid Points/sec)</b>	<b>1361</b>		<b>1342</b>	<b>1361</b>
	Normalized	100%	98.66%	100%
	Standard Deviation	0.3%	0.3%	0.3%
<b>Mobile Neural Network - SqueezeNetV1.0</b>	<b>8.393</b>		<b>8.288</b>	<b>8.328</b>
	Normalized	98.75%	100%	99.52%
	Standard Deviation	0.7%	0.3%	0.6%
<b>HPC Challenge - R.R.B (GB/s)</b>	<b>1.82500</b>		<b>1.81229</b>	<b>1.83458</b>
	Normalized	99.48%	98.79%	100%
	Standard Deviation	0.6%	1%	0.7%
<b>Cpuminer-Opt - Deepcoin (kH/s)</b>	<b>7604</b>		<b>7554</b>	<b>7646</b>
	Normalized	99.45%	98.8%	100%
	Standard Deviation	0.5%	0.1%	3%
<b>JPEG XL - JPEG - 7 (MP/s)</b>	<b>53.13</b>		<b>53.70</b>	<b>53.70</b>
	Normalized	98.94%	100%	100%
	Standard Deviation	1.5%	0.1%	0.3%
<b>toyBrot Fractal Generator - OpenMP (ms)</b>	<b>72458</b>		<b>71700</b>	<b>72247</b>
	Normalized	98.95%	100%	99.24%
	Standard Deviation	1.2%	1%	1.3%
<b>ONNX Runtime - bertsquad-10 - OpenMP</b>	<b>388</b>		<b>390</b>	<b>386</b>
<b>CPU (Inferences/min)</b>				
	Normalized	99.49%	100%	98.97%
	Standard Deviation	0.6%	0.8%	0.5%
<b>toyBrot Fractal Generator - TBB (ms)</b>	<b>71646</b>		<b>71108</b>	<b>71824</b>
	Normalized	99.25%	100%	99%
	Standard Deviation	1.5%	2.1%	2.3%
<b>NCNN - CPU - mobilenet (ms)</b>	<b>25.49</b>		<b>25.31</b>	<b>25.56</b>
	Normalized	99.29%	100%	99.02%
	Standard Deviation	0.3%	0.4%	0.4%
<b>NCNN - CPU-v2-v2 - mobilenet-v2 (ms)</b>	<b>6.21</b>		<b>6.19</b>	<b>6.15</b>
	Normalized	99.03%	99.35%	100%
	Standard Deviation	0.1%	1.4%	1%
<b>NAS Parallel Benchmarks - FT.C (Mop/s)</b>	<b>11014</b>		<b>11070</b>	<b>11119</b>
	Normalized	99.05%	99.56%	100%

## Core i7 10700T Garage

	Standard Deviation	1%		
<b>HPC Challenge - EP-DGEMM (GFLOPS)</b>	<b>6.67608</b>	6.73621	1%	1.2%
Normalized	99.07%	99.96%	100%	
Standard Deviation	0.7%	0.8%	0.6%	
<b>NAS Parallel Benchmarks - IS.D (Mop/s)</b>	<b>774.42</b>	779.75	780.60	
Normalized	99.21%	99.89%	100%	
Standard Deviation	1%	1.3%	1%	
<b>NCNN - CPU - squeezenet_ssd (ms)</b>	<b>26.63</b>	26.42	26.60	
Normalized	99.21%	100%	99.32%	
Standard Deviation	0.5%	0.7%	0.4%	
<b>NAS Parallel Benchmarks - MG.C (Mop/s)</b>	<b>10209</b>	10272	10288	
Normalized	99.23%	99.84%	100%	
Standard Deviation	0.6%	0.2%	0.4%	
<b>ASKAP - tConvolve MPI - Gridding</b>	<b>1929</b>	1944	1934	
Normalized	99.26%	100%	99.51%	
Standard Deviation	0%	0.7%	0.8%	
<b>NCNN - CPU - resnet18 (ms)</b>	<b>17.89</b>	17.76	17.88	
Normalized	99.27%	100%	99.33%	
Standard Deviation	0.1%	0.1%	0.2%	
<b>JPEG XL - JPEG - 5 (MP/s)</b>	<b>54.17</b>	53.81	53.79	
Normalized	100%	99.34%	99.3%	
Standard Deviation	1.2%	0.1%	0.6%	
<b>JPEG XL - PNG - 5 (MP/s)</b>	<b>54.15</b>	54.52	54.49	
Normalized	99.32%	100%	99.94%	
Standard Deviation	2%	2%	1.9%	
<b>HPC Challenge - G-Ptrans (GB/s)</b>	<b>2.38656</b>	2.40233	2.40251	
Normalized	99.34%	99.99%	100%	
Standard Deviation	0.2%	0.3%	0.3%	
<b>ONNX Runtime - super-resolution-10 - OpenMP CPU (Inferences/min)</b>	2894	2903	2884	
Normalized	99.69%	100%	99.35%	
Standard Deviation	0.6%	0.2%	0.3%	
<b>TensorFlow Lite - Inception V4 (us)</b>	<b>5140843</b>	5107473	5124043	
Normalized	99.35%	100%	99.68%	
Standard Deviation	0.9%	0.5%	0.4%	
<b>Mobile Neural Network - resnet-v2-50 (ms)</b>	<b>44.755</b>	44.688	44.472	
Normalized	99.37%	99.52%	100%	
Standard Deviation	0.3%	0.3%	0.3%	
<b>toyBrot Fractal Generator - C++ Tasks (ms)</b>	72124	71793	72225	
Normalized	99.54%	100%	99.4%	
Standard Deviation	1%	1.2%	0.8%	
<b>HPC Challenge - G-HPL (GFLOPS)</b>	<b>41.09657</b>	41.32983	41.24543	
Normalized	99.44%	100%	99.8%	
Standard Deviation	0.6%	0.5%	0.6%	
<b>NCNN - CPU - alexnet (ms)</b>	<b>15.03</b>	14.95	14.99	
Normalized	99.47%	100%	99.73%	
Standard Deviation	0%	0.1%	0.1%	
<b>toyBrot Fractal Generator - C++ Threads</b>	<b>72348</b>	71971	72269	
Normalized	99.48%	100%	99.59%	
Standard Deviation	1.1%	1.3%	1.1%	
<b>QuantLib (MFLOPS)</b>	<b>2093</b>	2087	2082	
Normalized	100%	99.72%	99.49%	
Standard Deviation	2.2%	2.4%	2.2%	
<b>JPEG XL Decoding - All (MP/s)</b>	<b>155.96</b>	156.71	156.67	
Normalized	99.52%	100%	99.97%	

## Core i7 10700T Garage

	Standard Deviation	2.2%	2.4%	2.1%
<b>HPC Challenge - G-Rand Access (GUP/s)</b>	<b>0.02931</b>	<b>0.02945</b>		0.02942
Normalized	99.52%	100%	99.9%	
Standard Deviation	3.8%	0.7%	0.9%	
<b>Izbench - Libdeflate 1 - Compression (MB/s)</b>	<b>218</b>	<b>217</b>	<b>217</b>	
Normalized	100%	99.54%	99.54%	
Standard Deviation	0.3%			
<b>ASKAP - tConvolve MPI - Degridding</b>	<b>1777</b>	<b>1781</b>	<b>1773</b>	
Normalized	99.77%	100%	99.55%	
Standard Deviation	0.4%	0.8%	0.7%	
<b>NAS Parallel Benchmarks - LU.C (Mop/s)</b>	<b>21580</b>	21622	<b>21676</b>	
Normalized	99.55%	99.75%	100%	
Standard Deviation	0.4%	0.5%	0.4%	
<b>Ngspice - C7552 (sec)</b>	<b>115.049</b>	114.971	<b>114.543</b>	
Normalized	99.56%	99.63%	100%	
Standard Deviation	0%	0.5%	0.1%	
<b>HPC Challenge - G-Ffte (GFLOPS)</b>	4.18057	<b>4.19489</b>	<b>4.17646</b>	
Normalized	99.66%	100%	99.56%	
Standard Deviation	0.4%	0.4%	0.4%	
<b>TensorFlow Lite - Mobilenet Float (us)</b>	233956	<b>233898</b>	<b>234901</b>	
Normalized	99.98%	100%	99.57%	
Standard Deviation	1.5%	1.1%	1.2%	
<b>NCNN - CPU - vgg16 (ms)</b>	66.40	<b>66.30</b>	<b>66.57</b>	
Normalized	99.85%	100%	99.59%	
Standard Deviation	0%	0.1%	0.4%	
<b>Google SynthMark - VoiceMark_100 (Voices)</b>	<b>587.112</b>	<b>589.389</b>	588.960	
Normalized	99.61%	100%	99.93%	
Standard Deviation	0.1%	0.3%	0.4%	
<b>TNN - CPU - MobileNet v2 (ms)</b>	<b>367.084</b>	366.804	<b>365.723</b>	
Normalized	99.63%	99.71%	100%	
Standard Deviation	0.3%	0%	0%	
<b>ONNX Runtime - yolov4 - OpenMP CPU (Inferences/min)</b>	<b>273</b>	<b>273</b>	<b>272</b>	
Normalized	100%	100%	99.63%	
Standard Deviation	1.3%	1.1%	1.4%	
<b>JPEG XL Decoding - 1 (MP/s)</b>	<b>36.22</b>	36.28	<b>36.33</b>	
Normalized	99.7%	99.86%	100%	
Standard Deviation	0.1%	0.2%	0.1%	
<b>Izbench - Brotli 2 - Decompression (MB/s)</b>	<b>671</b>	<b>669</b>	670	
Normalized	100%	99.7%	99.85%	
Standard Deviation	0.1%		0.2%	
<b>NAS Parallel Benchmarks - CG.C (Mop/s)</b>	4801	<b>4789</b>	<b>4803</b>	
Normalized	99.95%	99.71%	100%	
Standard Deviation	1.7%	0.5%	0.5%	
<b>TensorFlow Lite - Mobilenet Quant (us)</b>	233087	<b>232730</b>	<b>233384</b>	
Normalized	99.85%	100%	99.72%	
Standard Deviation	1.3%	1.2%	1.3%	
<b>High Performance Conjugate Gradient (GFLOP/s)</b>	<b>4.13935</b>	<b>4.15078</b>	4.15057	
Normalized	99.72%	100%	99.99%	
Standard Deviation	0.1%	0.1%	0%	
<b>OpenFOAM - Motorbike 60M (sec)</b>	<b>1314</b>	1310	<b>1310</b>	
Normalized	99.73%	100%	100%	
Standard Deviation	0.2%	0.5%	0.5%	

<b>ASKAP - tConvolve OpenMP - Degridding (Million Grid Points/sec)</b>	<b>2119</b>	<b>2124</b>	<b>2124</b>
Normalized	99.73%	100%	100%
Standard Deviation	0.5%	0.5%	0.5%
<b>Izbench - Brotli 0 - Compression (MB/s)</b>	<b>421</b>	<b>421</b>	<b>420</b>
Normalized	100%	100%	99.76%
<b>Stream-Dynamic - - Scale (MB/s)</b>	<b>23515</b>	23521	<b>23570</b>
Normalized	99.77%	99.79%	100%
Standard Deviation	0.1%	0.1%	0.2%
<b>Cpuminer-Opt - x25x (kH/s)</b>	<b>159.02</b>	<b>158.66</b>	159.00
Normalized	100%	99.77%	99.99%
Standard Deviation	0.8%	1%	0.4%
<b>Izbench - Zstd 1 - Compression (MB/s)</b>	<b>458</b>	<b>458</b>	<b>457</b>
Normalized	100%	100%	99.78%
Standard Deviation		0.1%	0.3%
<b>TensorFlow Lite - I.R.V (us)</b>	<b>4616837</b>	4607500	<b>4607170</b>
Normalized	99.79%	99.99%	100%
Standard Deviation	0.5%	0.4%	0.4%
<b>Etcpk - ETC1 (Mpx/s)</b>	<b>285.588</b>	286.157	<b>286.181</b>
Normalized	99.79%	99.99%	100%
Standard Deviation	0.5%	0.4%	0.4%
<b>Stream-Dynamic - - Add (MB/s)</b>	<b>26717</b>	<b>26664</b>	26665
Normalized	100%	99.8%	99.81%
Standard Deviation	0.3%	0%	0%
<b>Stream-Dynamic - - Triad (MB/s)</b>	<b>26677</b>	<b>26628</b>	26632
Normalized	100%	99.82%	99.83%
Standard Deviation	0.3%	0%	0%
<b>Izbench - Brotli 0 - Decompression (MB/s)</b>	<b>576</b>	<b>577</b>	<b>577</b>
Normalized	99.83%	100%	100%
Standard Deviation			0.2%
<b>Stream-Dynamic - - Copy (MB/s)</b>	<b>23494</b>	23515	<b>23532</b>
Normalized	99.84%	99.93%	100%
Standard Deviation	0.1%	0.2%	0.2%
<b>Ngspice - C2670 (sec)</b>	<b>138.563</b>	138.449	<b>138.365</b>
Normalized	99.86%	99.94%	100%
Standard Deviation	0.3%	0.2%	0.2%
<b>JPEG XL - PNG - 7 (MP/s)</b>	<b>7.51</b>	<b>7.52</b>	<b>7.52</b>
Normalized	99.87%	100%	100%
Standard Deviation	0%	0.1%	0.2%
<b>ASKAP - H.C.O (Iterations/sec)</b>	<b>194.175</b>	<b>194.427</b>	194.177
Normalized	99.87%	100%	99.87%
Standard Deviation	0.2%	0.1%	0.3%
<b>JPEG XL - JPEG - 8 (MP/s)</b>	<b>23.27</b>	<b>23.27</b>	<b>23.30</b>
Normalized	99.87%	99.87%	100%
Standard Deviation	0%	0.2%	0.2%
<b>Izbench - Zstd 1 - Decompression (MB/s)</b>	<b>1568</b>	<b>1566</b>	1567
Normalized	100%	99.87%	99.94%
Standard Deviation	0%	0.1%	0.1%
<b>TensorFlow Lite - SqueezeNet (us)</b>	<b>347977</b>	<b>347577</b>	347804
Normalized	99.89%	100%	99.93%
Standard Deviation	2%	2%	2%
<b>HPC Challenge - EP-STREAM Triad (GB/s)</b>	<b>3.13248</b>	3.13059	<b>3.12889</b>
Normalized	100%	99.94%	99.89%
Standard Deviation	0.1%	0.1%	0.2%
<b>Cpuminer-Opt - Myriad-Groestl (kH/s)</b>	<b>10840</b>	<b>10840</b>	<b>10847</b>

## Core i7 10700T Garage

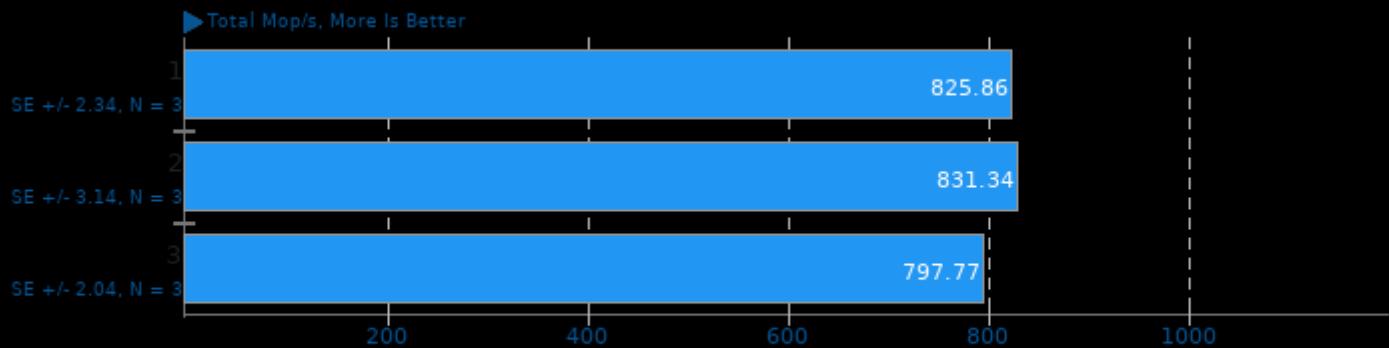
	Normalized	99.94%	99.94%	100%
	Standard Deviation	0.6%	1.5%	0.8%
<b>TNN - CPU - SqueezeNet v1.1 (ms)</b>	<b>359.546</b>	359.443	<b>359.345</b>	
	Normalized	99.94%	99.97%	100%
	Standard Deviation	0%	0.1%	0%
<b>EtcPak - ETC2 (Mpx/s)</b>	<b>158.500</b>	<b>158.517</b>	<b>158.446</b>	
	Normalized	99.99%	100%	99.96%
	Standard Deviation	0%	0%	0.1%
<b>ASKAP - tConvolve MT - Degridding (Million Grid Points/sec)</b>	<b>1777</b>	<b>1776</b>	<b>1777</b>	
	Normalized	99.97%	99.96%	100%
	Standard Deviation	0.1%	0.2%	0.1%
<b>ASKAP - tConvolve MT - Gridding (Million Grid Points/sec)</b>	<b>1199</b>	<b>1198</b>	<b>1198</b>	
	Normalized	100%	99.99%	99.99%
	Standard Deviation	0.1%	0%	0%
<b>ONNX Runtime - fcn-resnet101-11 - OpenMP CPU (Inferences/min)</b>	<b>43</b>	<b>43</b>	<b>43</b>	
	Standard Deviation	0.7%	1.2%	1.2%
<b>JPEG XL - PNG - 8 (MP/s)</b>	<b>0.68</b>	<b>0.68</b>	<b>0.68</b>	
	Standard Deviation	0%	0%	0%
<b>Izbench - Brotli 2 - Compression (MB/s)</b>	<b>169</b>	<b>169</b>	<b>169</b>	
<b>Izbench - Crush 0 - Decompression (MB/s)</b>	<b>456</b>	<b>456</b>	<b>456</b>	
<b>Izbench - Crush 0 - Compression (MB/s)</b>	<b>99</b>	<b>99</b>	<b>99</b>	
	Standard Deviation	1.2%		1.2%
<b>Izbench - Zstd 8 - Decompression (MB/s)</b>	<b>1688</b>	<b>1688</b>	<b>1688</b>	
	Standard Deviation		0.1%	0.2%
<b>Izbench - Zstd 8 - Compression (MB/s)</b>	<b>80</b>	<b>80</b>	<b>80</b>	
<b>Izbench - XZ 0 - Decompression (MB/s)</b>	<b>102</b>	<b>102</b>	<b>102</b>	
<b>Izbench - XZ 0 - Compression (MB/s)</b>	<b>37</b>	<b>37</b>	<b>37</b>	
<b>NCNN - CPU - regnety_400m (ms)</b>	<b>18.36</b>	<b>17.50</b>	<b>17.59</b>	
	Normalized	95.32%	100%	99.49%
	Standard Deviation	1%	9.8%	8.7%
<b>NCNN - CPU - googlenet (ms)</b>	<b>19.22</b>	<b>18.20</b>	<b>18.34</b>	
	Normalized	94.69%	100%	99.24%
	Standard Deviation	0.5%	6.3%	7.7%
<b>NCNN - CPU - blazeface (ms)</b>	<b>2.58</b>	<b>2.41</b>	<b>2.43</b>	
	Normalized	93.41%	100%	99.18%
	Standard Deviation	0.4%	12.6%	11.5%
<b>NCNN - CPU - efficientnet-b0 (ms)</b>	<b>9.40</b>	<b>8.96</b>	<b>8.87</b>	
	Normalized	94.36%	99%	100%
	Standard Deviation	3.6%	12.4%	11.5%
<b>NCNN - CPU - mnasnet (ms)</b>	<b>5.61</b>	<b>5.86</b>	<b>5.78</b>	
	Normalized	100%	95.73%	97.06%
	Standard Deviation	15.5%	13.9%	13.2%
<b>NCNN - CPU - shufflenet-v2 (ms)</b>	<b>7.36</b>	<b>7.29</b>	<b>7.37</b>	
	Normalized	99.05%	100%	98.91%
	Standard Deviation	15.2%	14.9%	15.5%
<b>NCNN - CPU-v3-v3 - mobilenet-v3 (ms)</b>	<b>5.56</b>	<b>5.51</b>	<b>5.57</b>	
	Normalized	99.1%	100%	98.92%
	Standard Deviation	7.9%	9%	9.9%
<b>Mobile Neural Network - mobilenet-v1-1.0</b>	<b>2.903</b>	<b>2.873</b>	<b>2.874</b>	
	Normalized	98.97%	100%	99.97%
	Standard Deviation	6.5%	6.3%	6.2%

## Core i7 10700T Garage

<b>Mobile Neural Network - MobileNetV2_224</b>	<b>4.267</b>	4.263	<b>4.253</b>
Normalized	99.67%	99.77%	100%
Standard Deviation	9.2%	7.1%	9.6%
<b>Cpuminer-Opt - T.S.2.O (kH/s)</b>	<b>63713</b>	<b>69831</b>	<b>63090</b>
Normalized	91.24%	100%	90.35%
Standard Deviation	0.9%	18.4%	1.5%
<b>Cpuminer-Opt - Q.S.2.P (kH/s)</b>	<b>47283</b>	<b>46807</b>	<b>48327</b>
Normalized	97.84%	96.85%	100%
Standard Deviation	0.9%	0.5%	10.5%
<b>Cpuminer-Opt - LBC, LBRY Credits (kH/s)</b>	<b>23503</b>	23540	<b>24530</b>
Normalized	95.81%	95.96%	100%
Standard Deviation	0.2%	0.4%	9.9%
<b>Cpuminer-Opt - Skeincoin (kH/s)</b>	<b>33400</b>	33380	<b>33187</b>
Normalized	100%	99.94%	99.36%
Standard Deviation	0.3%	0.3%	25.6%
<b>Cpuminer-Opt - Garlicoin (kH/s)</b>	<b>1257</b>	<b>1212</b>	1215
Normalized	100%	96.43%	96.7%
Standard Deviation	13.6%	2.6%	2.2%
<b>NAS Parallel Benchmarks - EP.C (Mop/s)</b>	<b>901.18</b>	926.89	<b>929.91</b>
Normalized	96.91%	99.68%	100%
Standard Deviation	6.8%	3.9%	4.2%
<b>EtcPak - ETC1 + Dithering (Mpx/s)</b>	266.470	<b>263.014</b>	<b>267.313</b>
Normalized	99.68%	98.39%	100%
Standard Deviation	0.8%	6.1%	0.3%

## NAS Parallel Benchmarks 3.4

Test / Class: EP.D

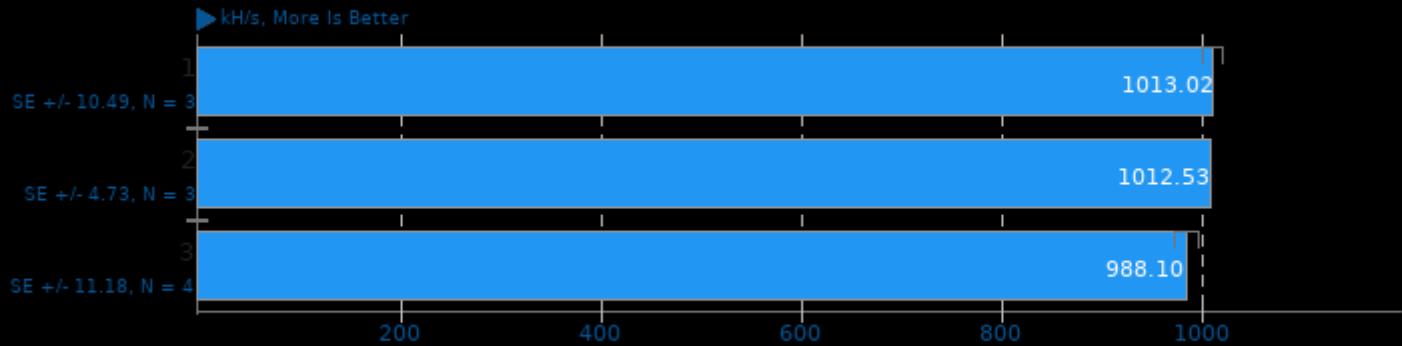


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi\_usempif08 -lmpi\_mpifh -lmpi -lopen rte -lopen pal -lhwloc -ldl -levent -levent\_pthreads -lutil

2. Open MPI 4.0.3

## Cpuminer-Opt 3.15.5

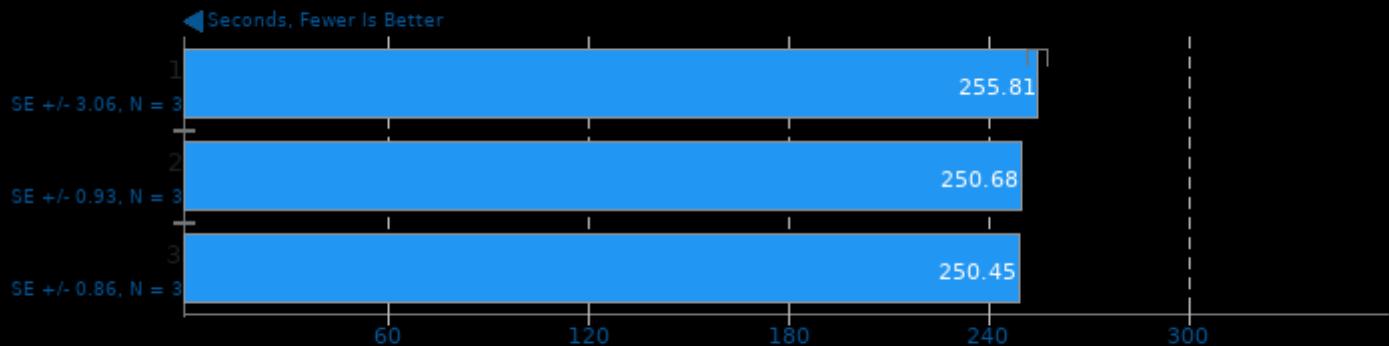
Algorithm: Ringcoin



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

## OpenFOAM 8

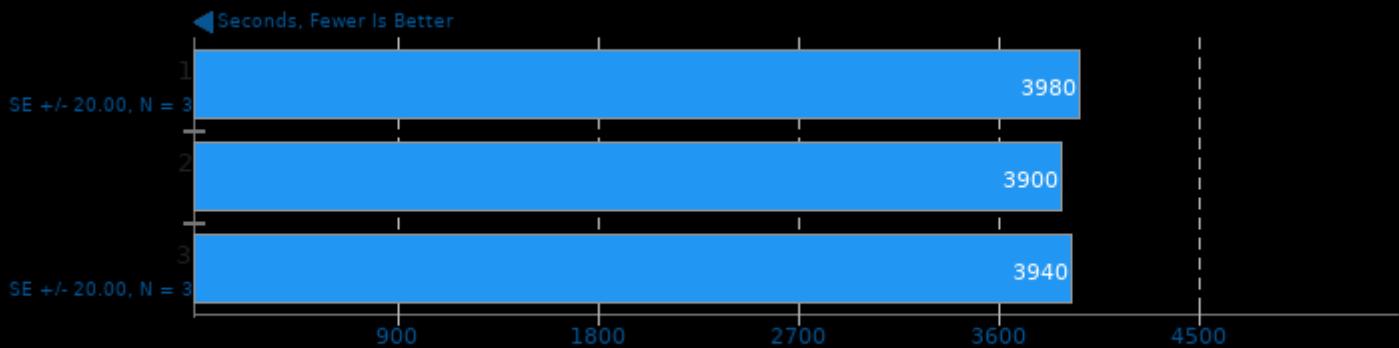
Input: Motorbike 30M



1. (CXX) g++ options: -std=c++11 -m64 -O3 -ftemplate-depth=100 -fPIC -fuse-lld=bfd -Xlinker --add-needed --no-as-needed -lfoamToVTK -ldynamicMesh -

## Quantum ESPRESSO 6.7

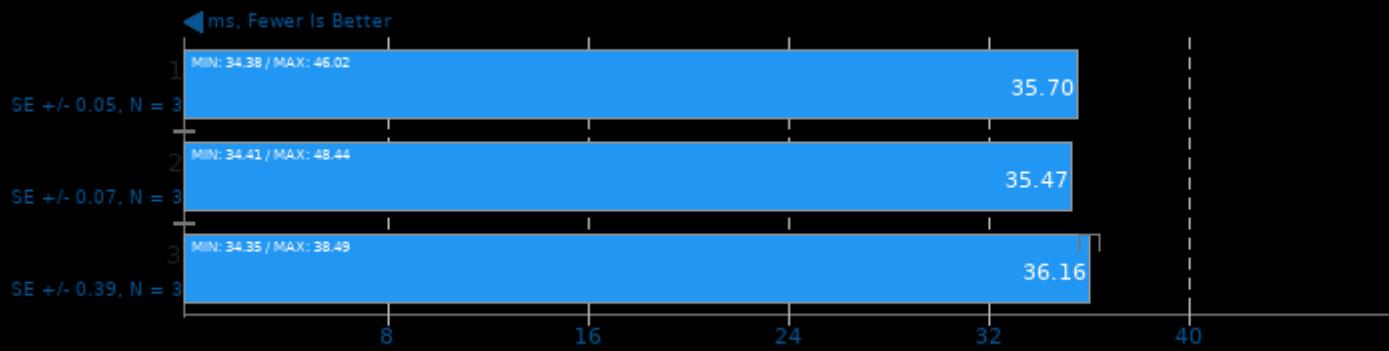
Input: AUSURF112



1. (F9X) gfortran options: -lopenblas -IFoX\_dom -IFoX\_sax -IFoX\_wxml -IFoX\_common -IFoX\_utils -IFoX\_fsys -fftw3 -pthread -lmpi\_usempif08 -lmpi\_mpih -

## NCNN 20201218

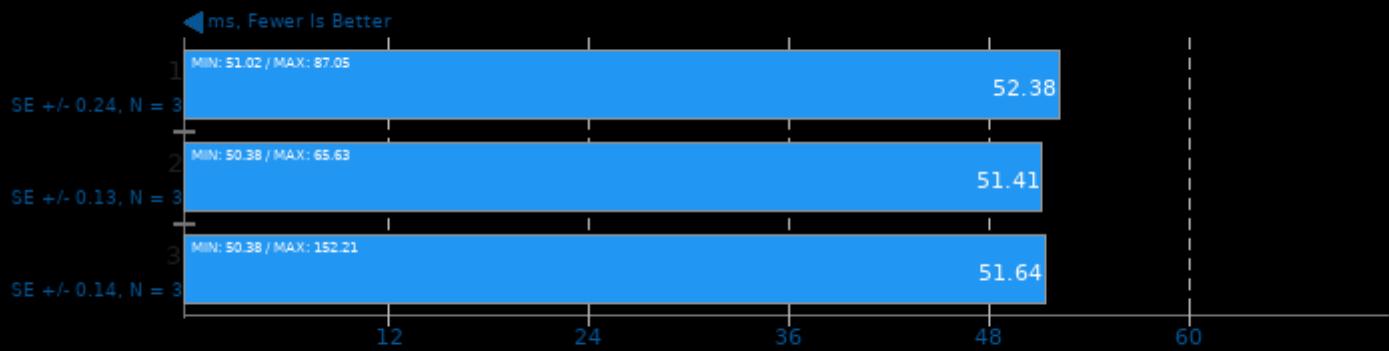
Target: CPU - Model: resnet50



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

## Mobile Neural Network 1.1.1

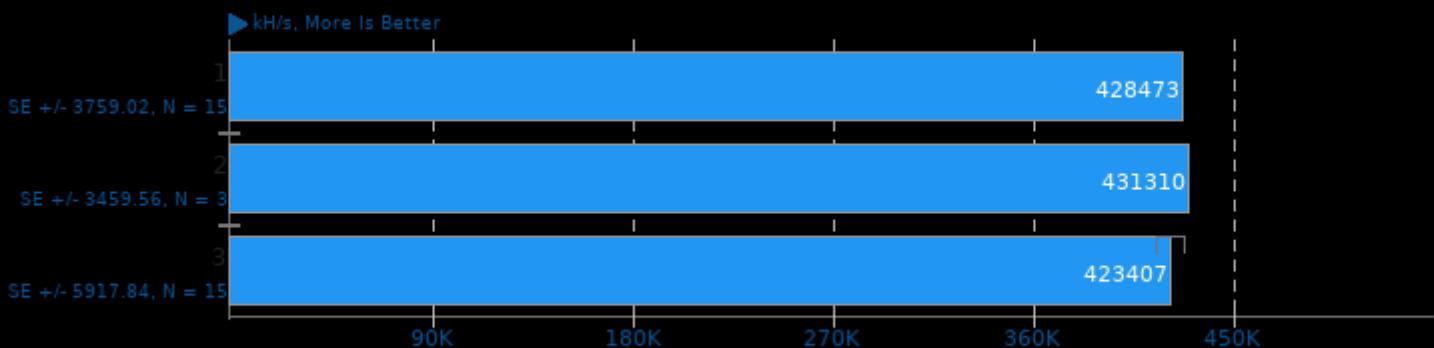
Model: inception-v3



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

## Cpuminer-Opt 3.15.5

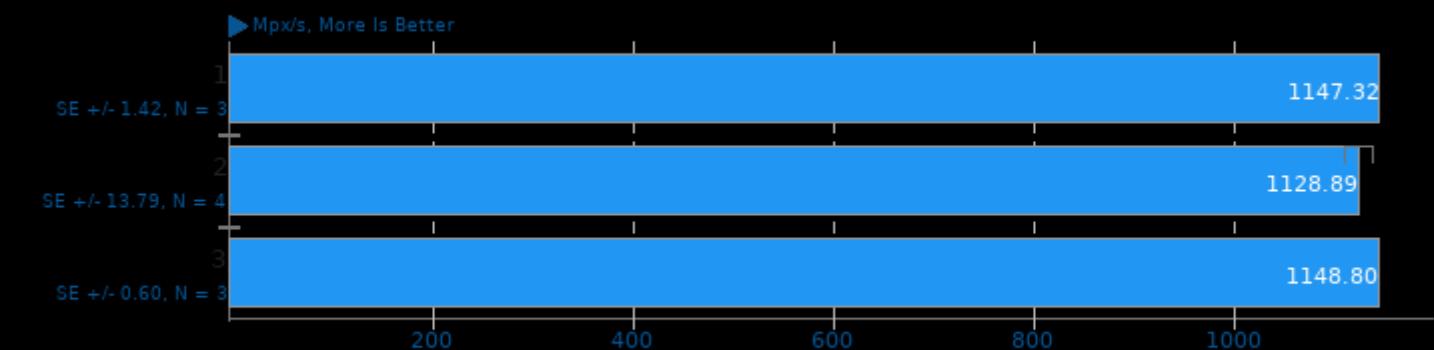
Algorithm: Blake-2 S



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

## EtcPak 0.7

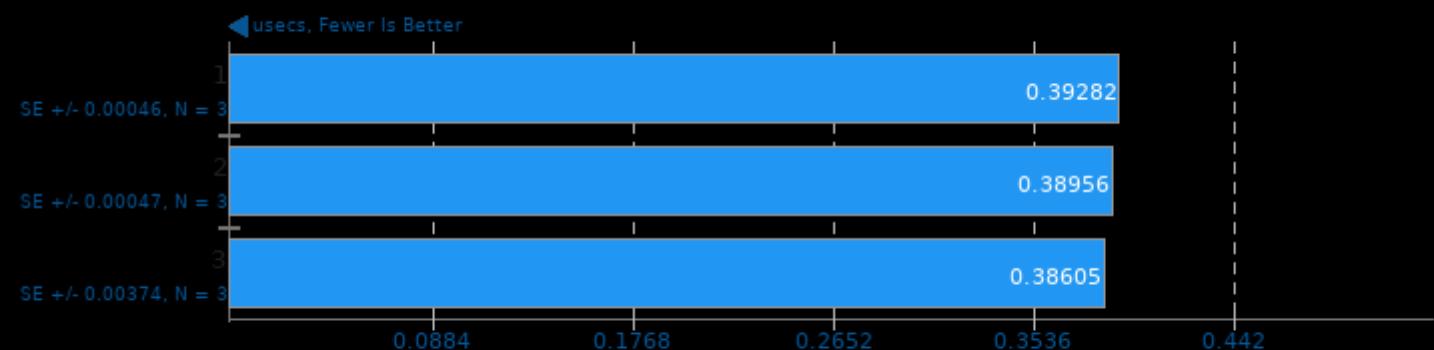
Configuration: DXT1



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

## HPC Challenge 1.5.0

Test / Class: Random Ring Latency

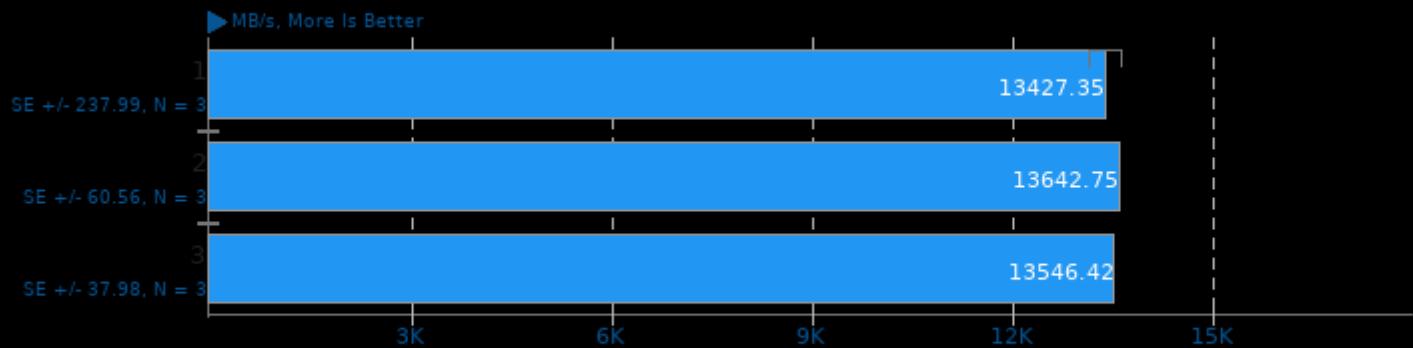


1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops

2. ATLAS + Open MPI 4.0.3

## HPC Challenge 1.5.0

Test / Class: Max Ping Pong Bandwidth

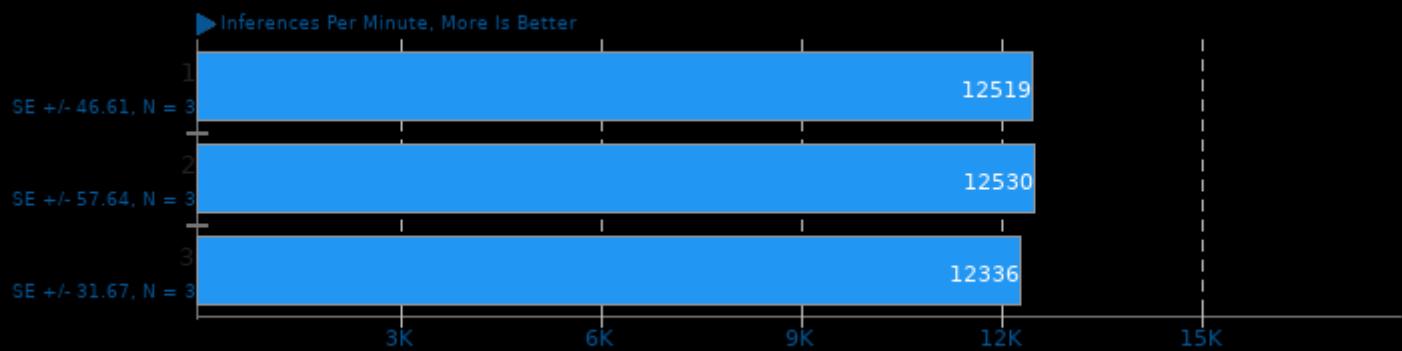


1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops

2. ATLAS + Open MPI 4.0.3

## ONNX Runtime 1.6

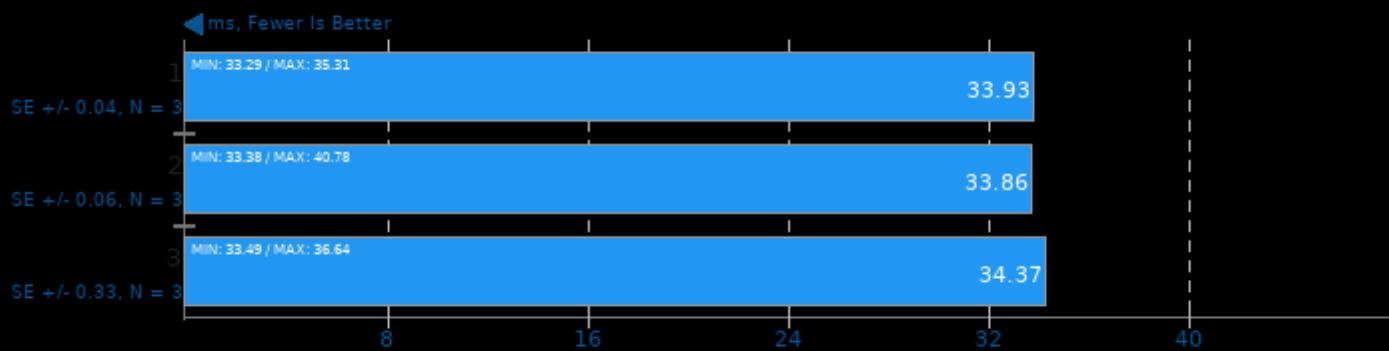
Model: shufflenet-v2-10 - Device: OpenMP CPU



1. (CXX) g++ options: -fopenmp -ffunction-sections -O3 -ldl -lrt

## NCNN 20201218

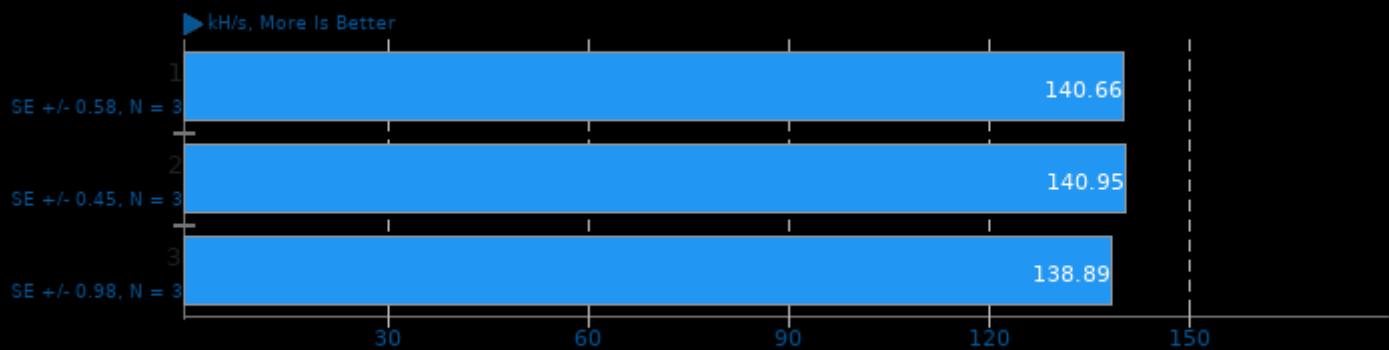
Target: CPU - Model: yolov4-tiny



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

## Cpuminer-Opt 3.15.5

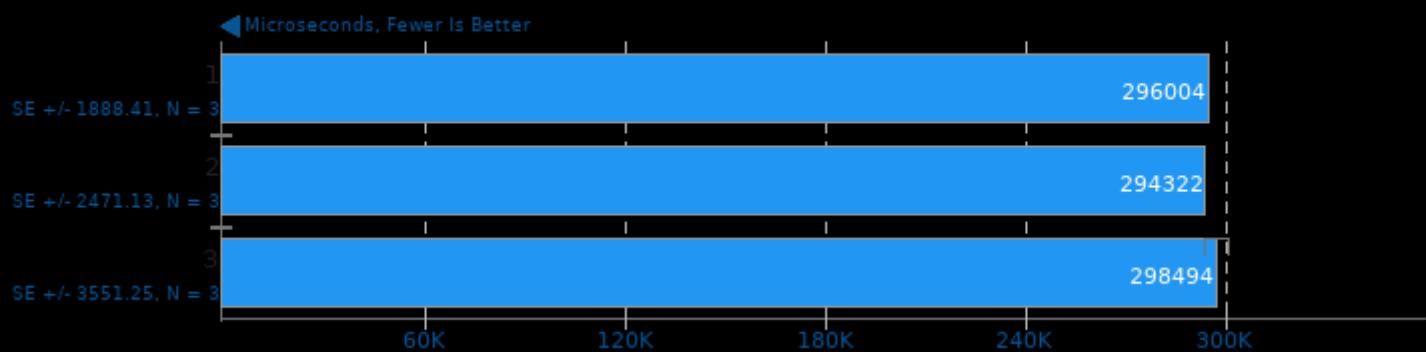
Algorithm: Magi



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

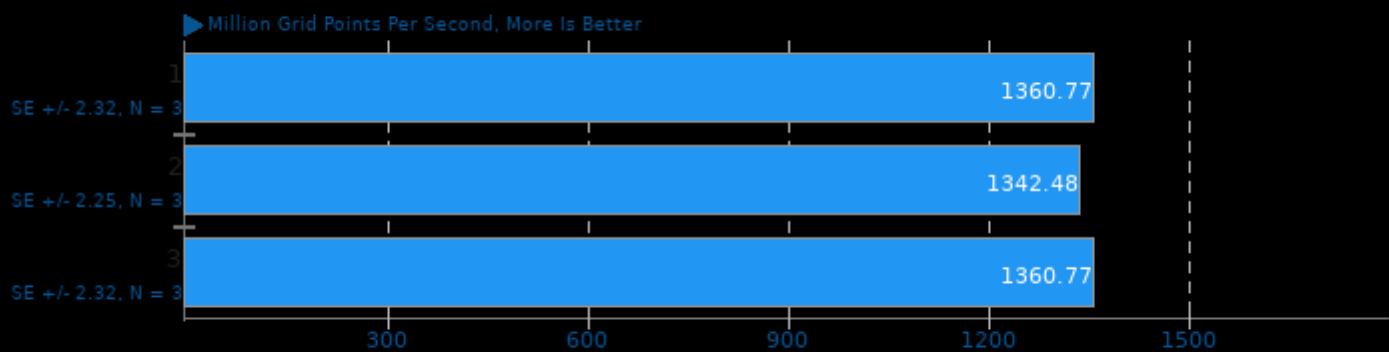
## TensorFlow Lite 2020-08-23

Model: NASNet Mobile



## ASKAP 1.0

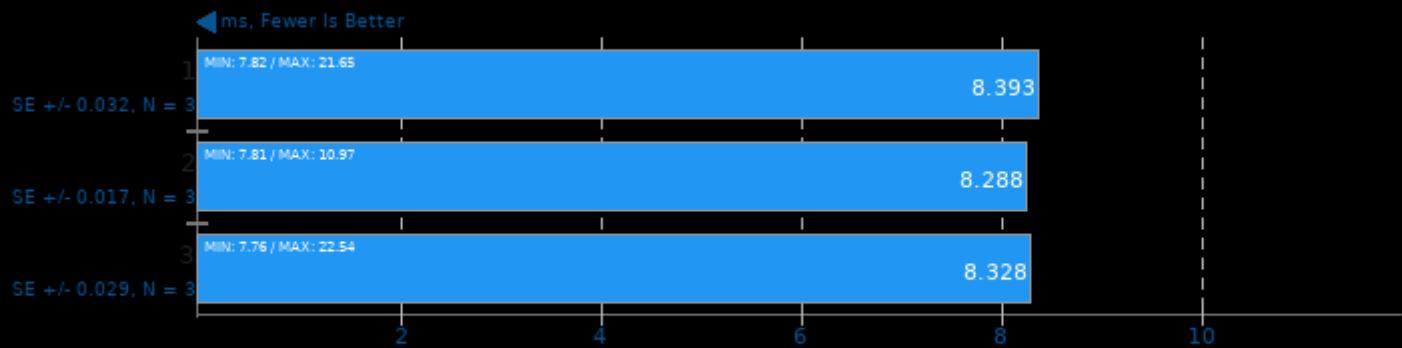
Test: tConvolve OpenMP - Gridding



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

## Mobile Neural Network 1.1.1

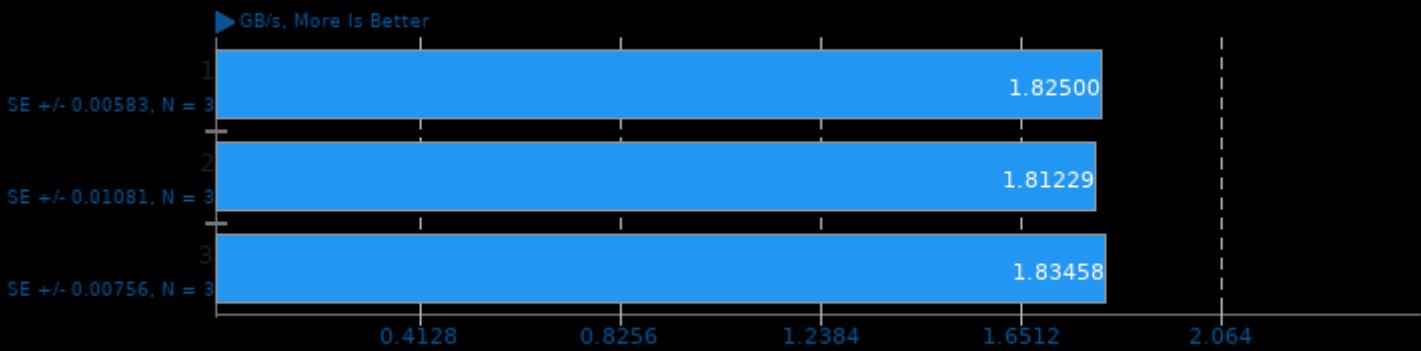
Model: SqueezeNetV1.0



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

## HPC Challenge 1.5.0

Test / Class: Random Ring Bandwidth

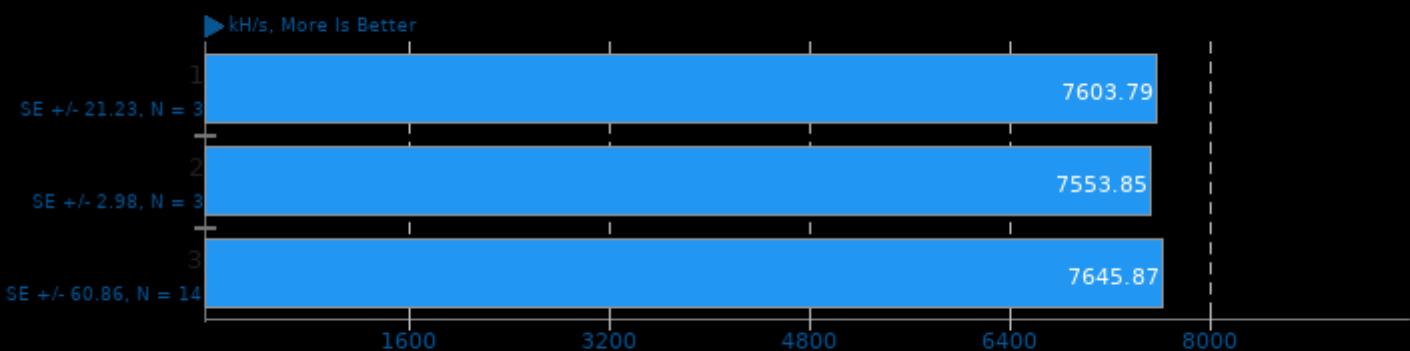


1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops

2. ATLAS + Open MPI 4.0.3

## Cpuminer-Opt 3.15.5

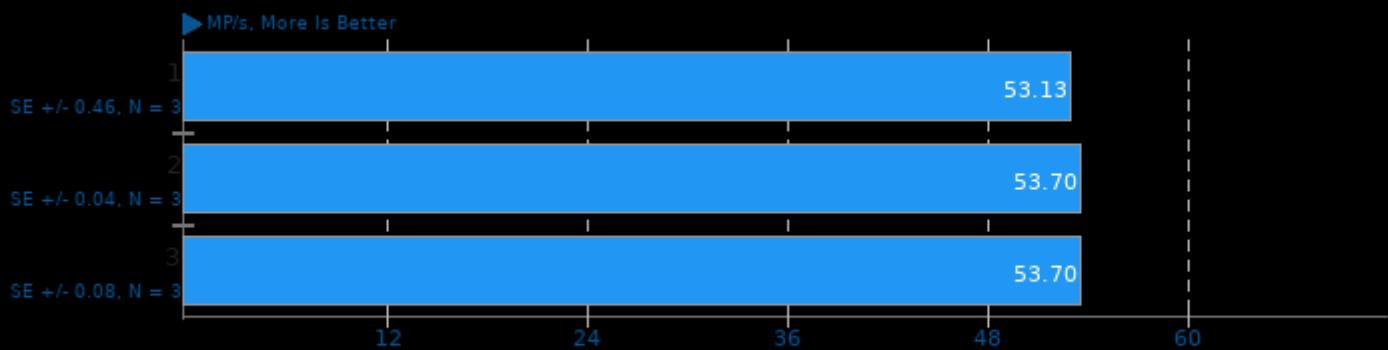
Algorithm: Deepcoin



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

## JPEG XL 0.3.1

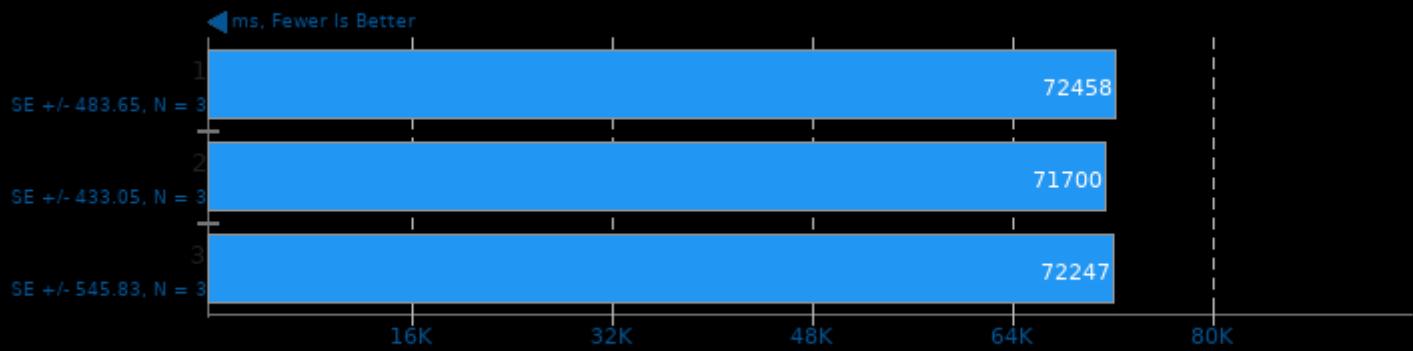
Input: JPEG - Encode Speed: 7



1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie -ldl

## toyBrot Fractal Generator 2020-11-18

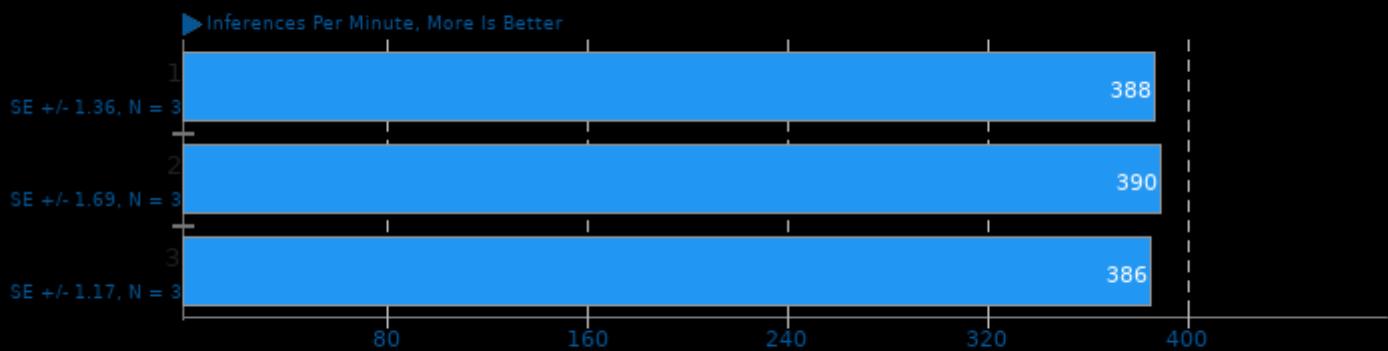
Implementation: OpenMP



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

## ONNX Runtime 1.6

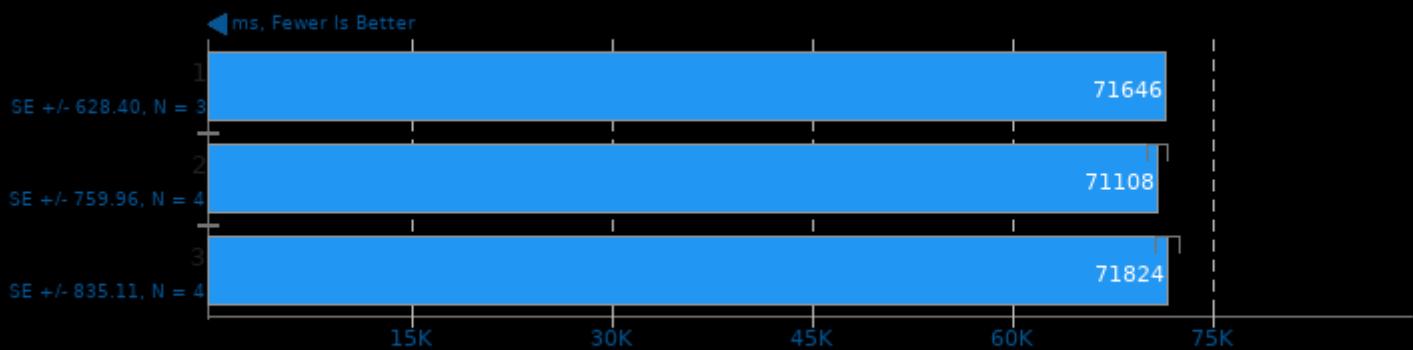
Model: bertsquad-10 - Device: OpenMP CPU



1. (CXX) g++ options: -fopenmp -ffunction-sections -fdata-sections -O3 -ldl -lrt

## toyBrot Fractal Generator 2020-11-18

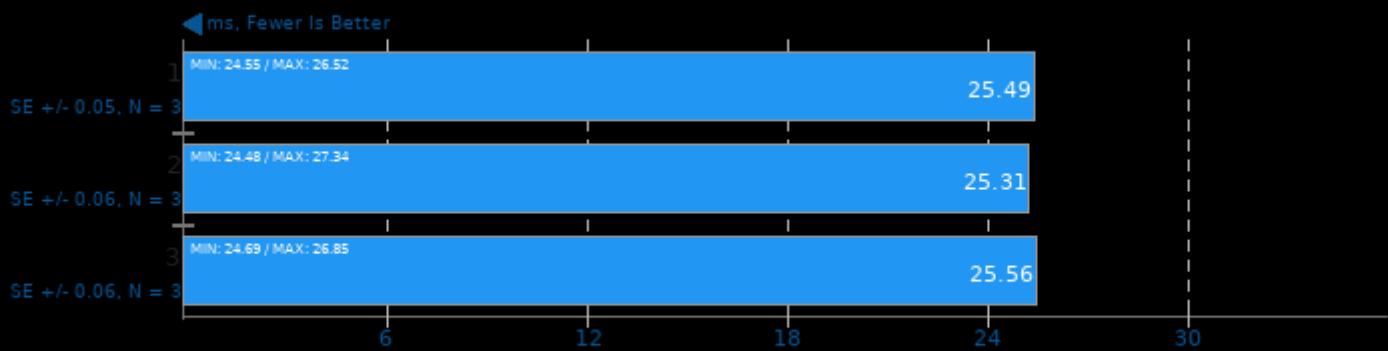
Implementation: TBB



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

## NCNN 20201218

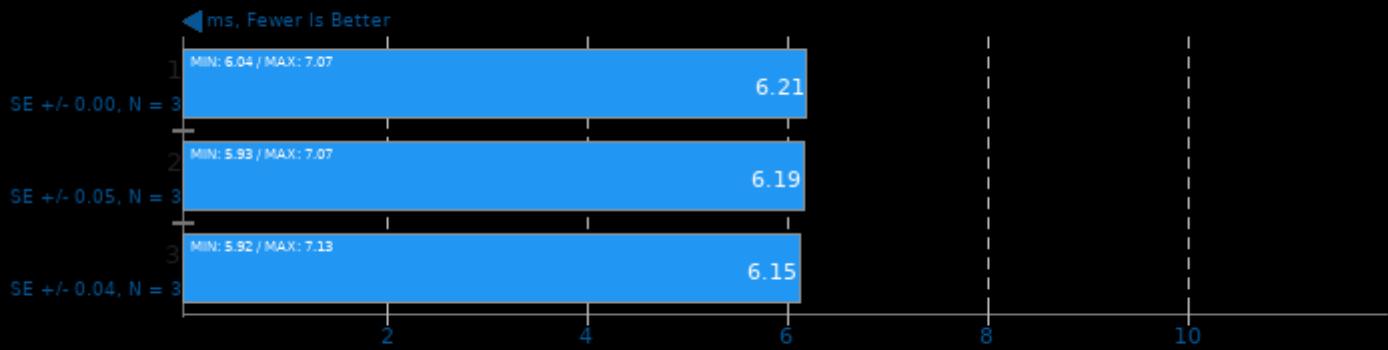
Target: CPU - Model: mobilenet



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

## NCNN 20201218

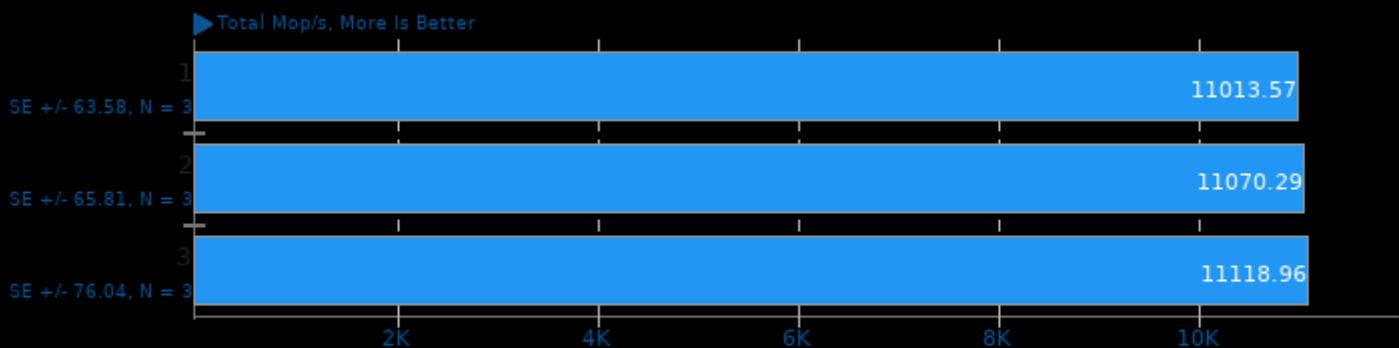
Target: CPU-v2-v2 - Model: mobilenet-v2



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

## NAS Parallel Benchmarks 3.4

Test / Class: FT.C

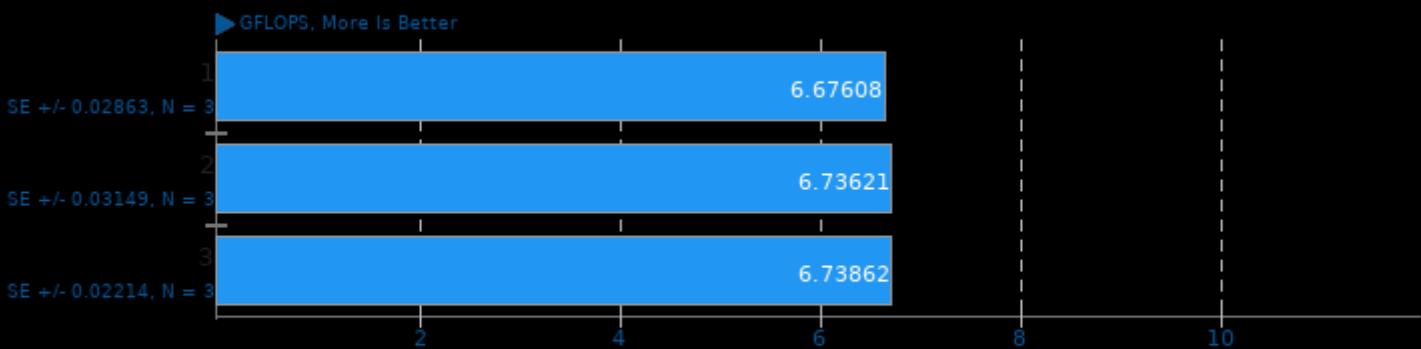


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi\_usempif08 -lmpi\_mpifh -lmpi -lopen rte -lopen pal -lhwloc -ldl -levent -levent\_pthreads -lutil

2. Open MPI 4.0.3

## HPC Challenge 1.5.0

Test / Class: EP-DGEMM

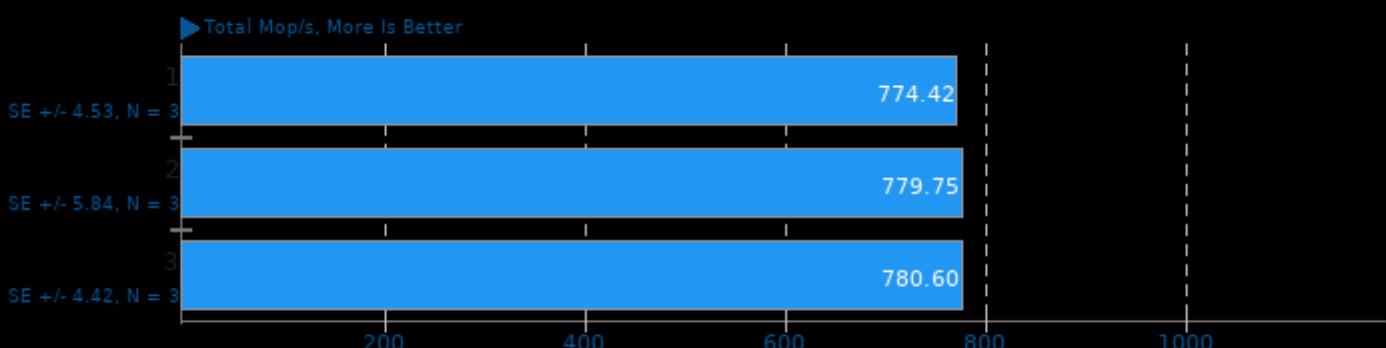


1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops

2. ATLAS + Open MPI 4.0.3

## NAS Parallel Benchmarks 3.4

Test / Class: IS.D

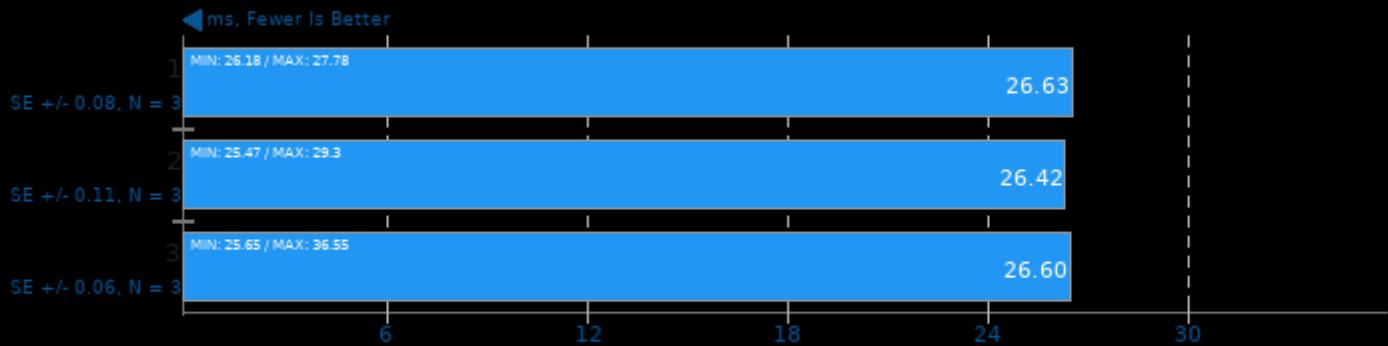


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi\_usempif08 -lmpi\_mpifh -lmpi -lopen rte -lopen pal -lhwloc -ldl -levent -levent\_pthreads -lutil

2. Open MPI 4.0.3

## NCNN 20201218

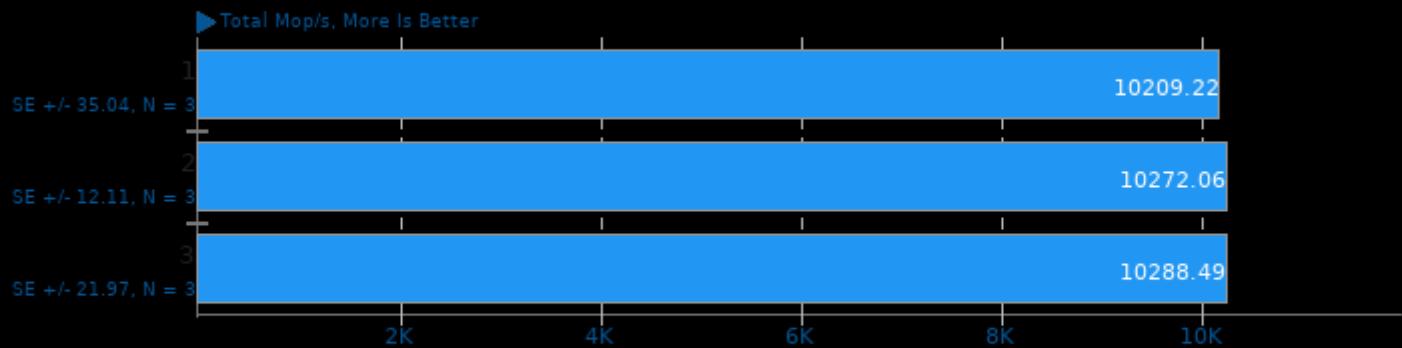
Target: CPU - Model: squeezeenet\_ssd



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

## NAS Parallel Benchmarks 3.4

Test / Class: MG.C

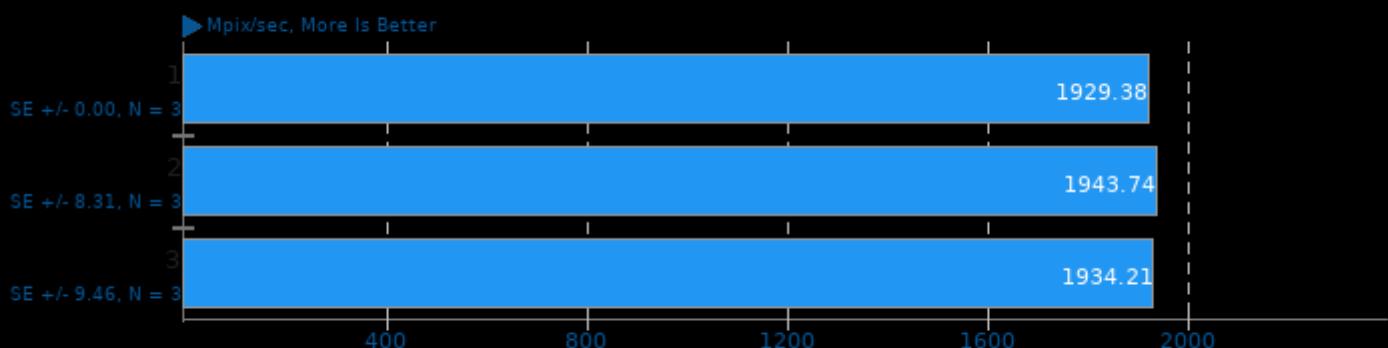


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi\_usempif08 -lmpi\_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -ldl -levent -levent\_pthreads -lutil

2. Open MPI 4.0.3

## ASKAP 1.0

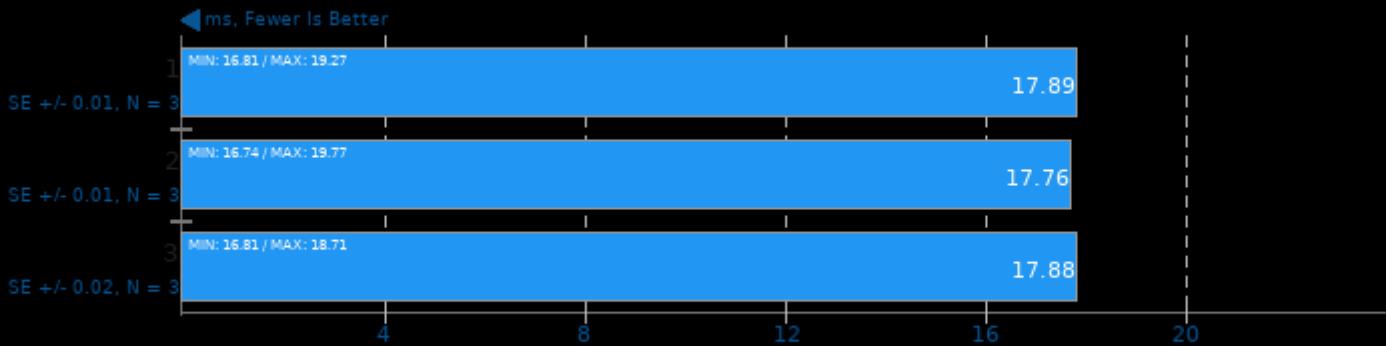
Test: tConvolve MPI - Gridding



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

## NCNN 20201218

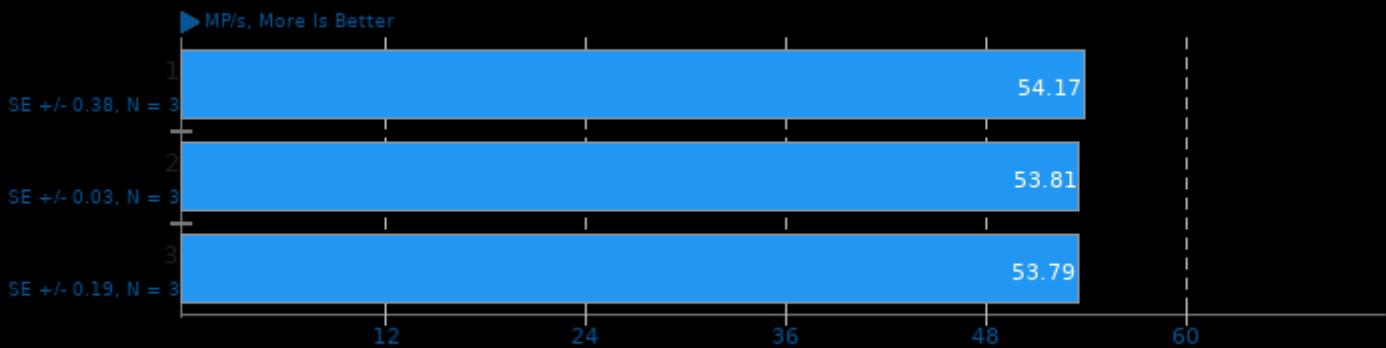
Target: CPU - Model: resnet18



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

## JPEG XL 0.3.1

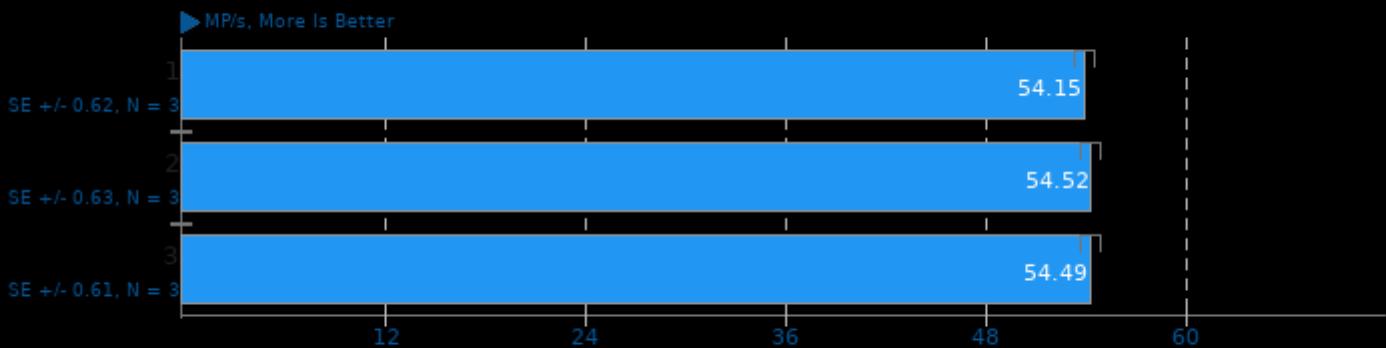
Input: JPEG - Encode Speed: 5



1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie -ldl

## JPEG XL 0.3.1

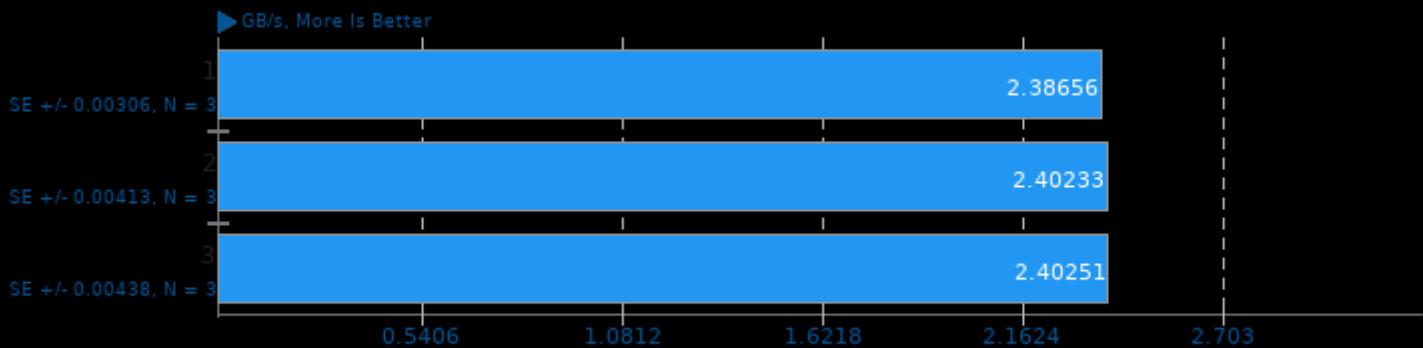
Input: PNG - Encode Speed: 5



1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie -ldl

## HPC Challenge 1.5.0

Test / Class: G-Ptrans

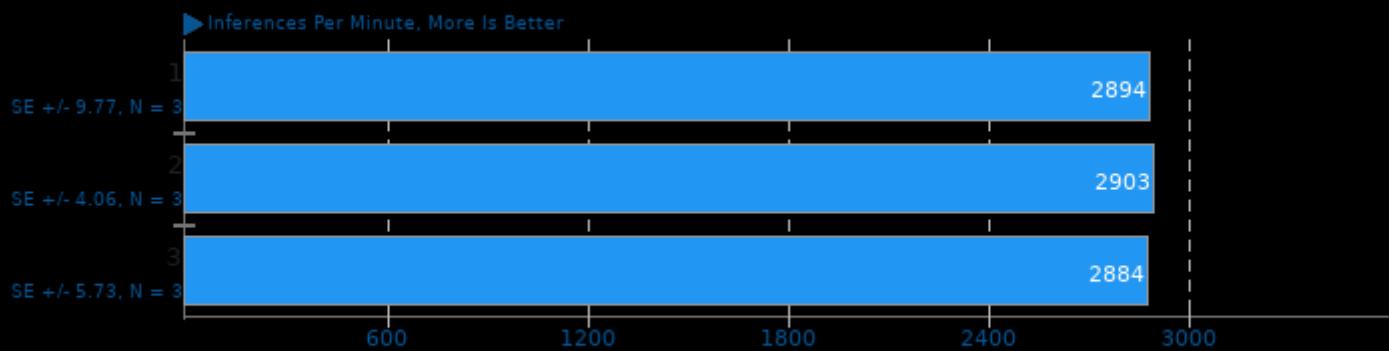


1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops

2. ATLAS + Open MPI 4.0.3

## ONNX Runtime 1.6

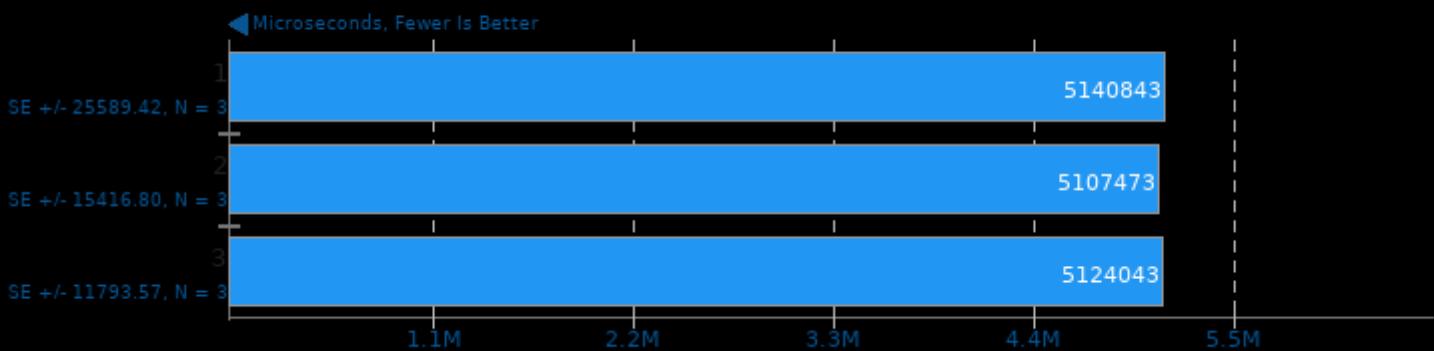
Model: super-resolution-10 - Device: OpenMP CPU



1. (CXX) g++ options: -fopenmp -ffunction-sections -O3 -ldl -lrt

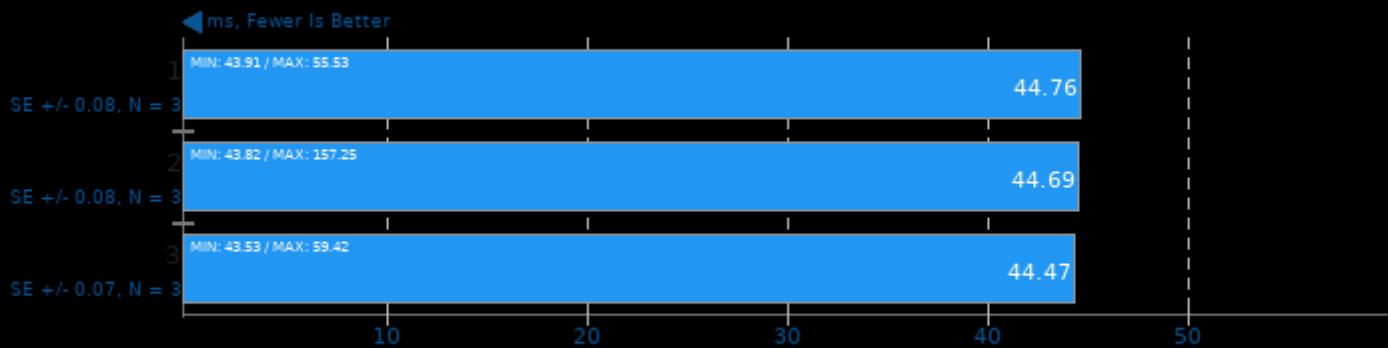
## TensorFlow Lite 2020-08-23

Model: Inception V4



## Mobile Neural Network 1.1.1

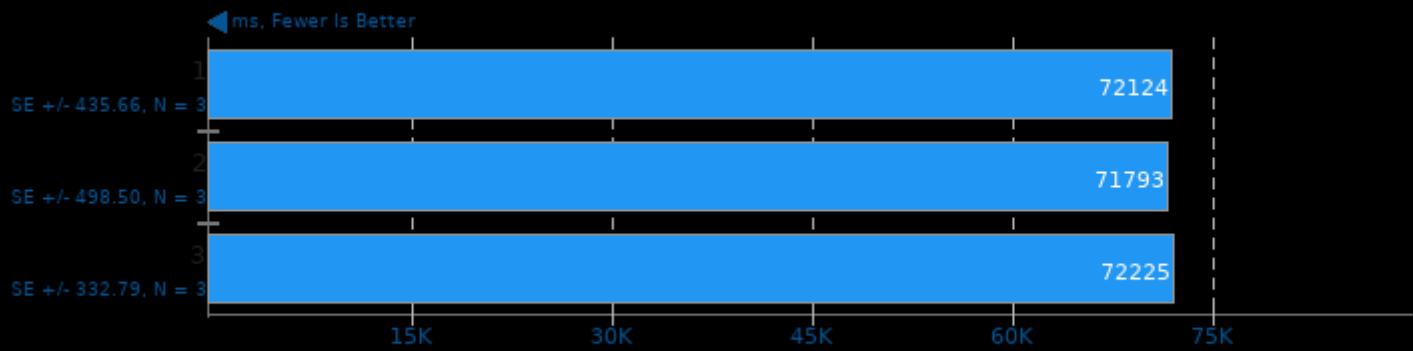
Model: resnet-v2-50



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

## toyBrot Fractal Generator 2020-11-18

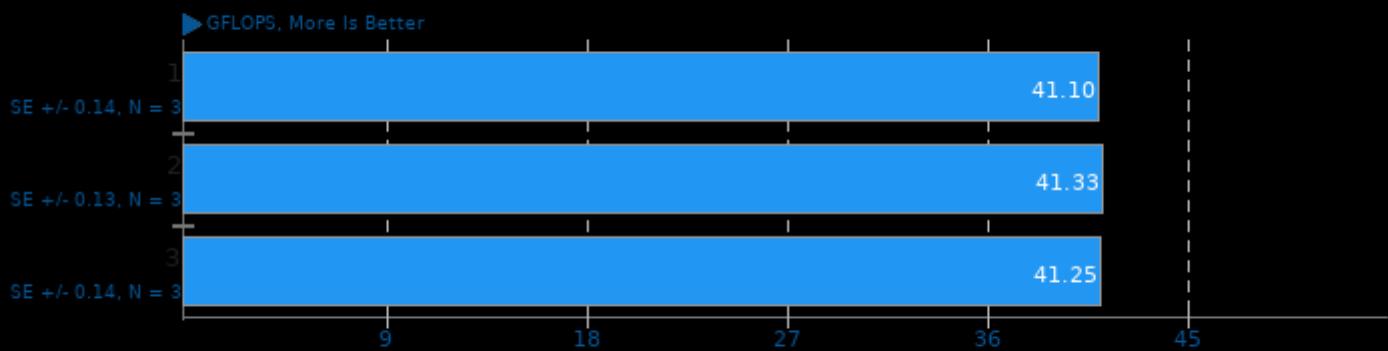
Implementation: C++ Tasks



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

## HPC Challenge 1.5.0

Test / Class: G-HPL

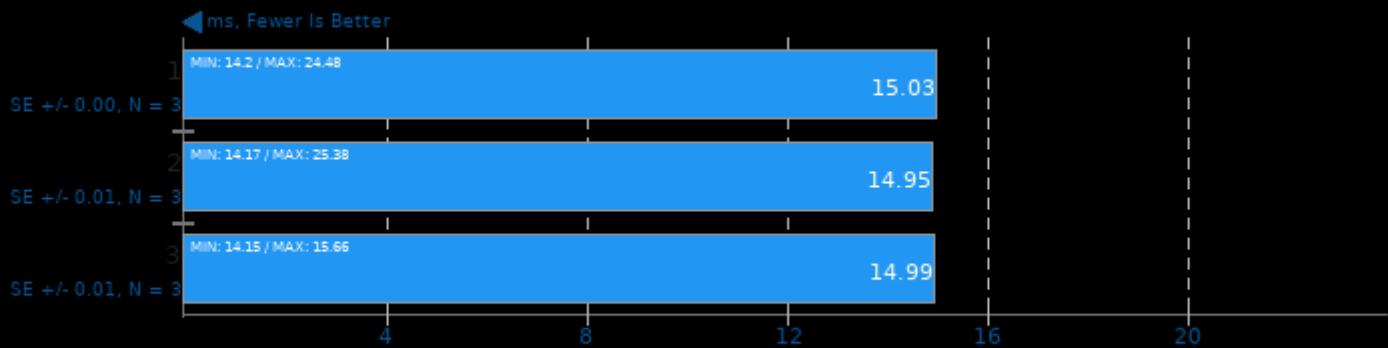


1. (CC) gcc options: -lblas -lm -lpthread -lmpi -fomit-frame-pointer -funroll-loops

2. ATLAS + Open MPI 4.0.3

**NCNN 20201218**

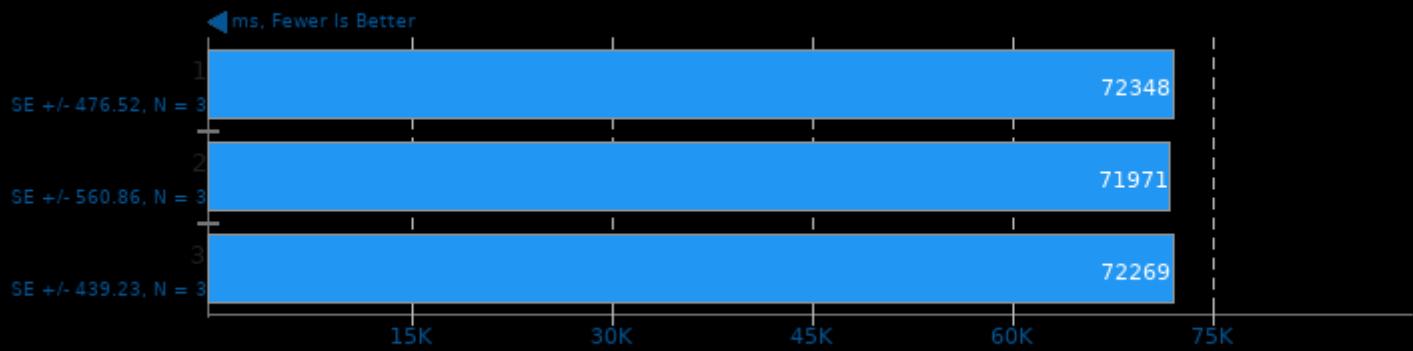
Target: CPU - Model: alexnet



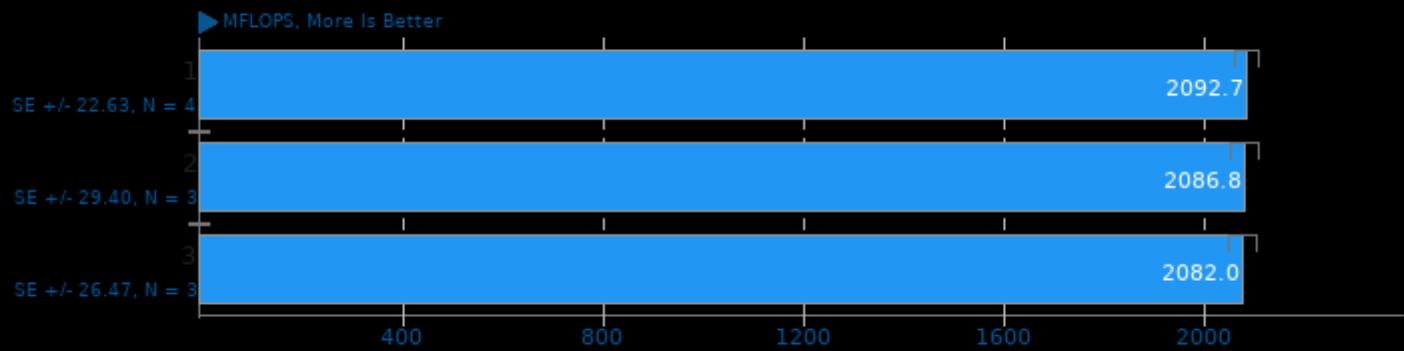
1. (CXX) g++ options: -O3 -rdynamic -lgomp -lpthread

**toyBrot Fractal Generator 2020-11-18**

Implementation: C++ Threads



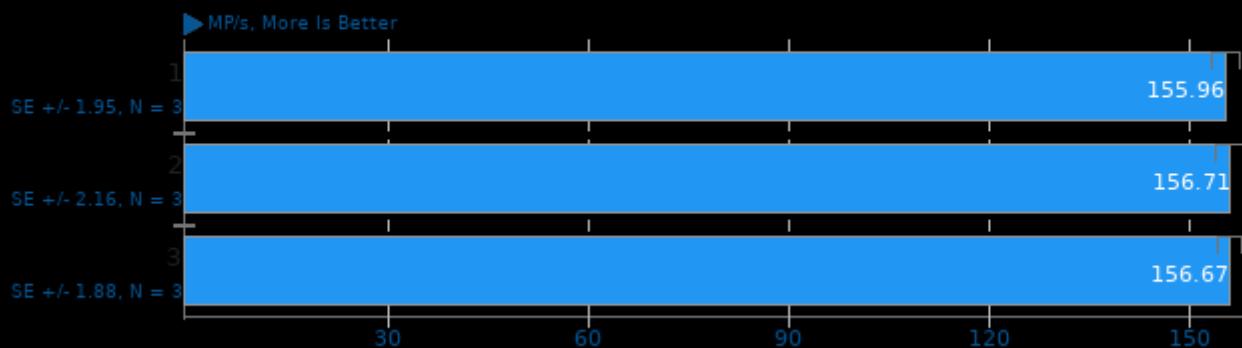
1. (CXX) g++ options: -O3 -lpthread

**QuantLib 1.21**

1. (CXX) g++ options: -O3 -march=native -rdynamic

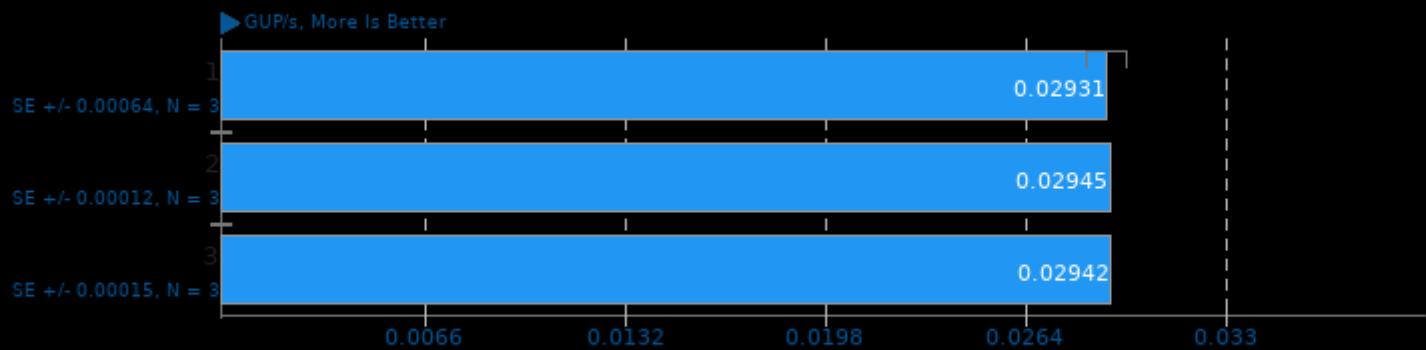
## JPEG XL Decoding 0.3.1

CPU Threads: All



## HPC Challenge 1.5.0

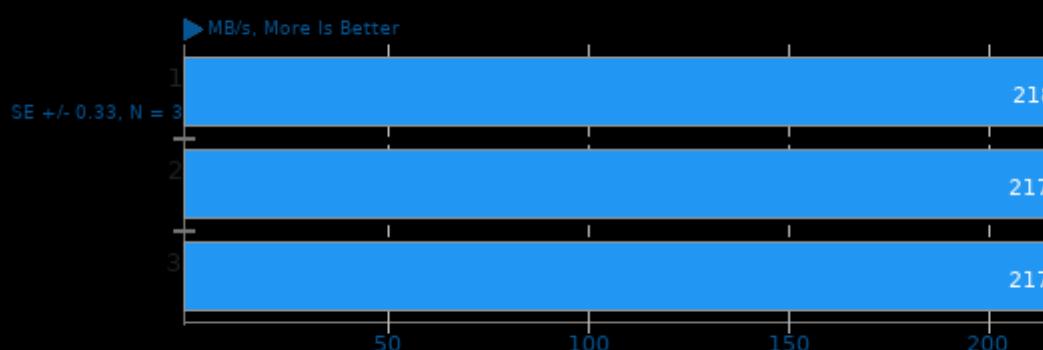
Test / Class: G-Random Access



1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops  
2. ATLAS + Open MPI 4.0.3

## Izbench 1.8

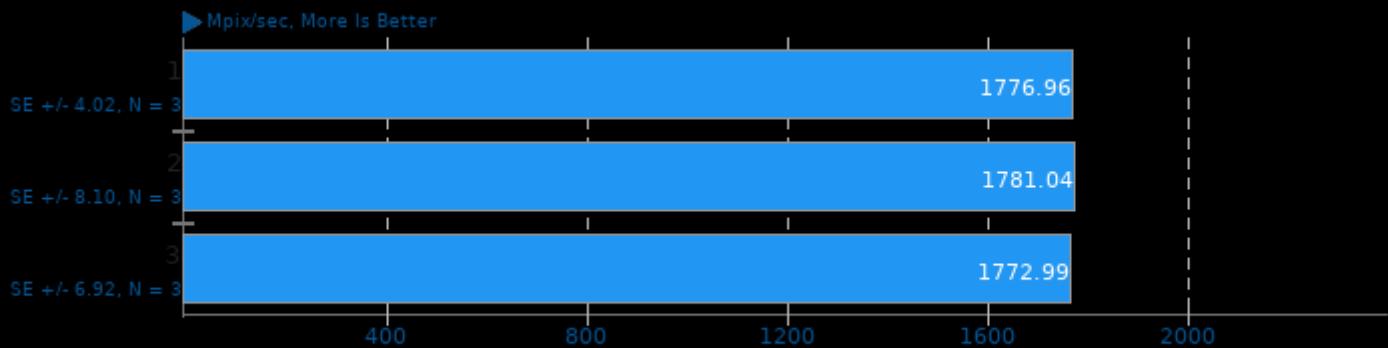
Test: Libdeflate 1 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math

## ASKAP 1.0

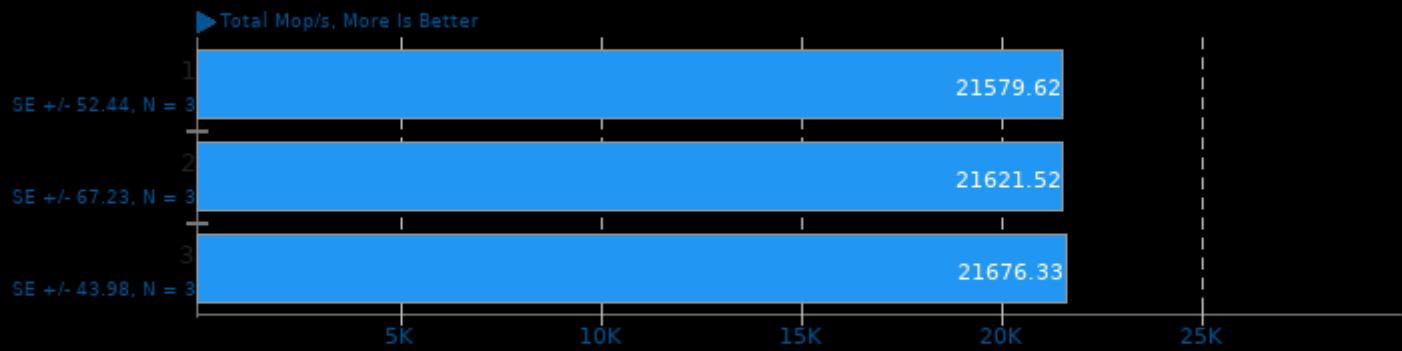
Test: tConvolve MPI - Degridding



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

## NAS Parallel Benchmarks 3.4

Test / Class: LU.C

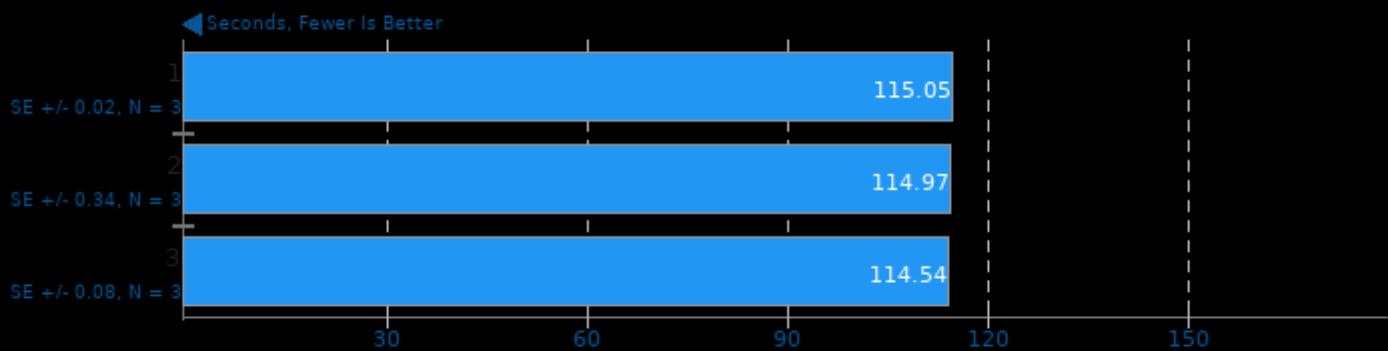


1. (F9X) gfortran options: -O3 -march=native -pthread -Impi\_usempif08 -Impi\_mpifh -Impi -lopen-rte -lopen-pal -Ihwloc -ldl -levent -levent\_pthreads -lutil

2. Open MPI 4.0.3

## Ngspice 34

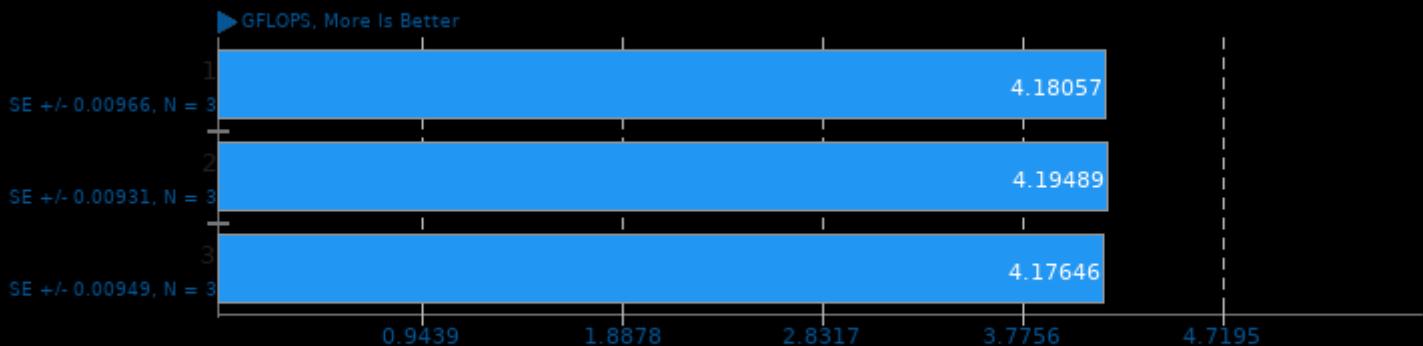
Circuit: C7552



1. (CC) gcc options: -O0 -fopenmp -lm -stdc++ -fftw3 -Ixaw -Ixmu -Xt -Xext -X11 -ISM -ICE

## HPC Challenge 1.5.0

Test / Class: G-Ffte

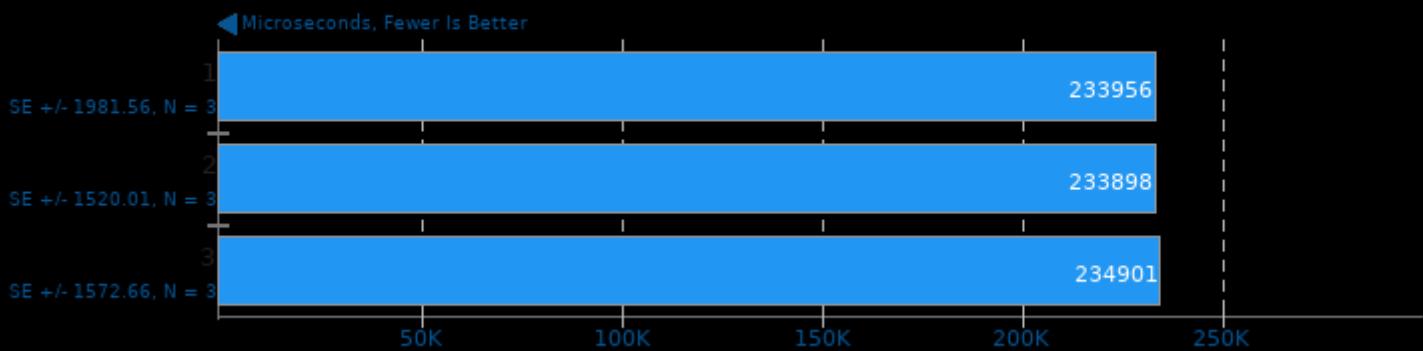


1. (CC) gcc options: -fblas -lm -pthread -fopenmp -fomit-frame-pointer -funroll-loops

2. ATLAS + Open MPI 4.0.3

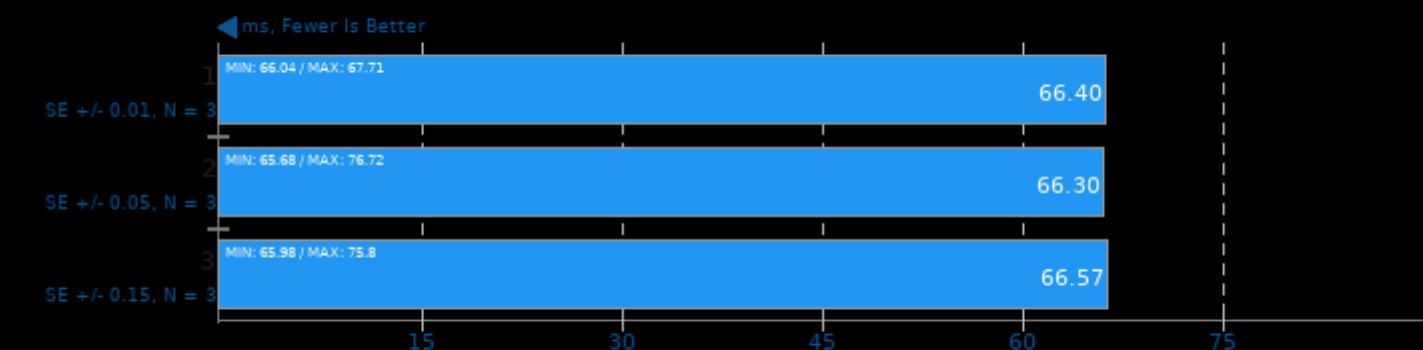
## TensorFlow Lite 2020-08-23

Model: Mobilenet Float



## NCNN 20201218

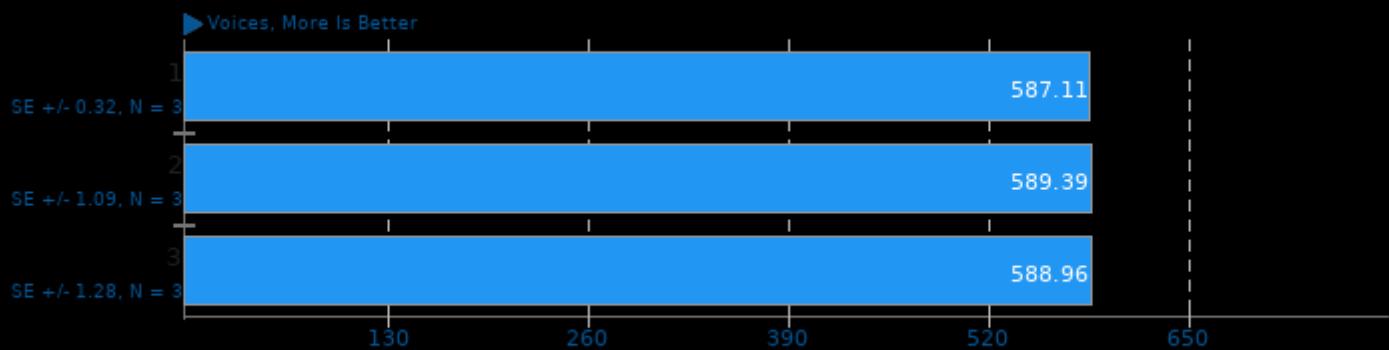
Target: CPU - Model: vgg16



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

## Google SynthMark 20201109

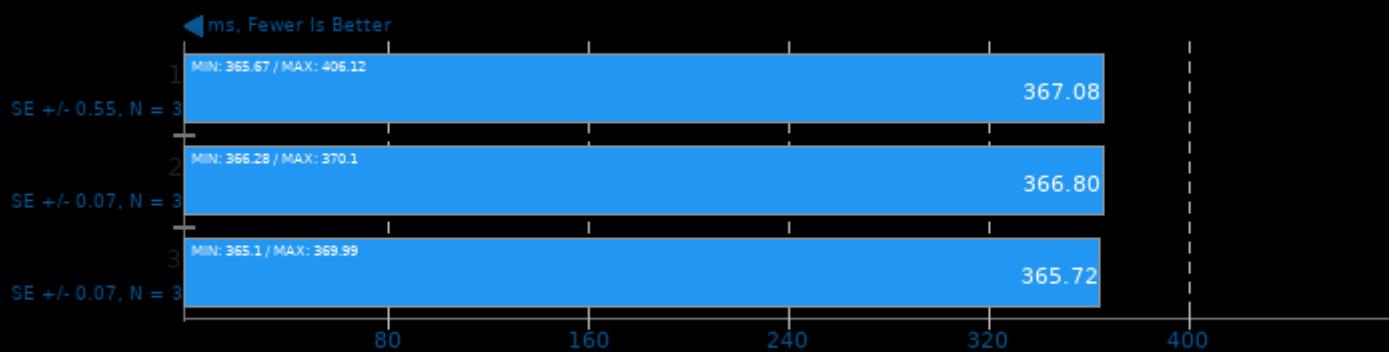
Test: VoiceMark\_100



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

## TNN 0.2.3

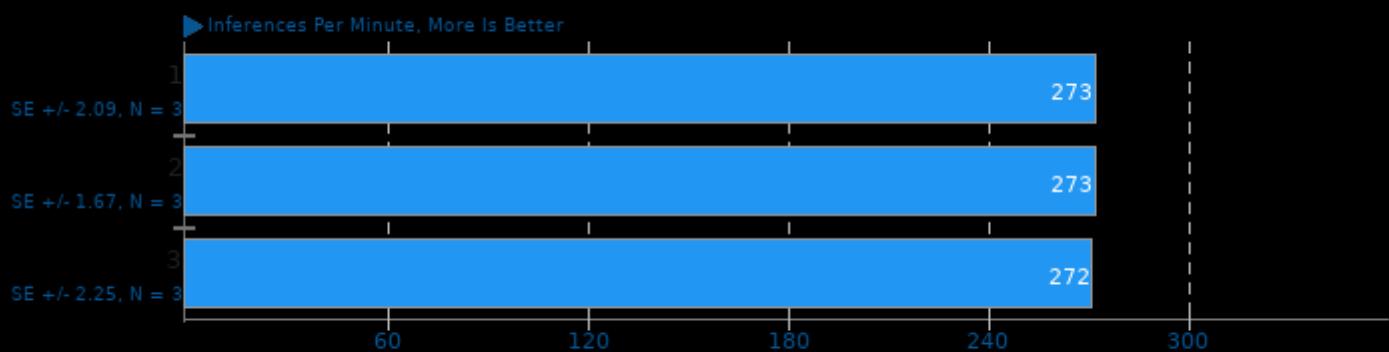
Target: CPU - Model: MobileNet v2



1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -O3 -rdynamic -ldl

## ONNX Runtime 1.6

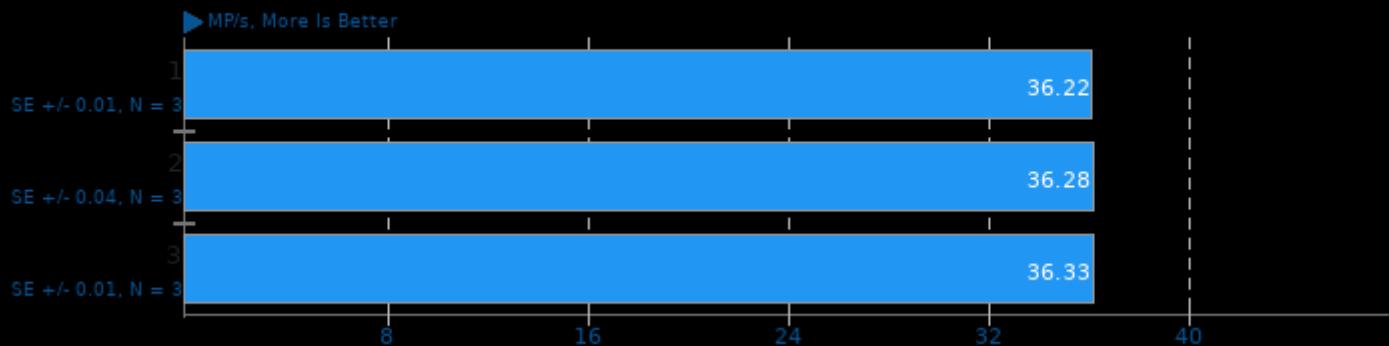
Model: yolov4 - Device: OpenMP CPU



1. (CXX) g++ options: -fopenmp -ffunction-sections -fdata-sections -O3 -ldl -lrt

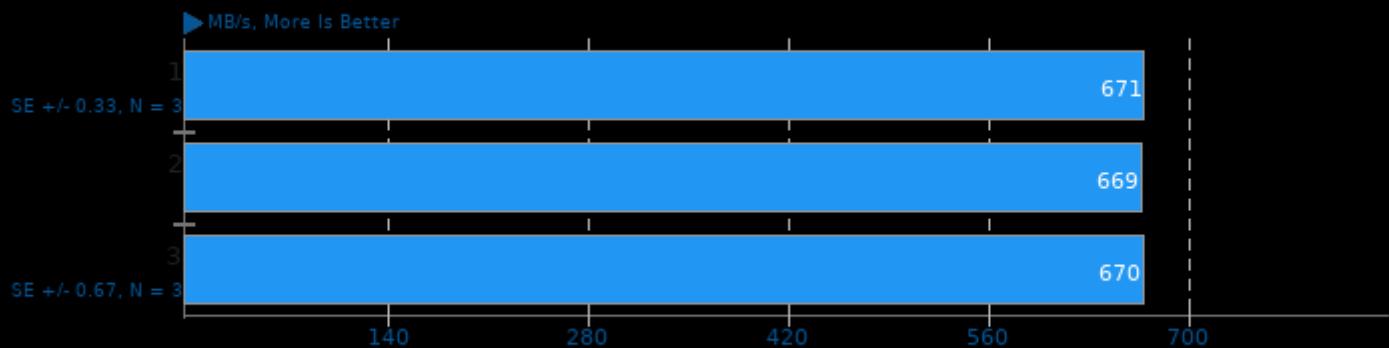
## JPEG XL Decoding 0.3.1

CPU Threads: 1



## Izbench 1.8

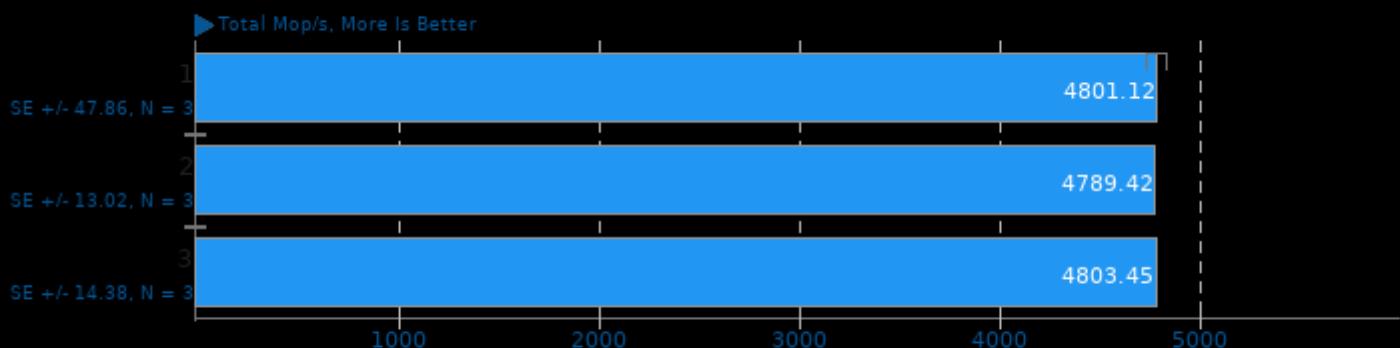
Test: Brotli 2 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

## NAS Parallel Benchmarks 3.4

Test / Class: CG.C

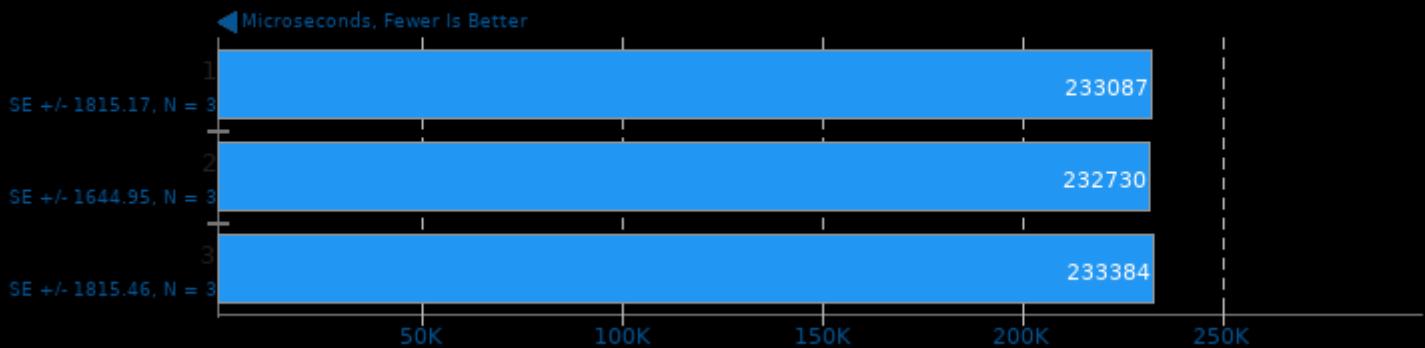


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi\_usempif08 -lmpi\_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -ldl -levent -levent\_pthreads -lutil

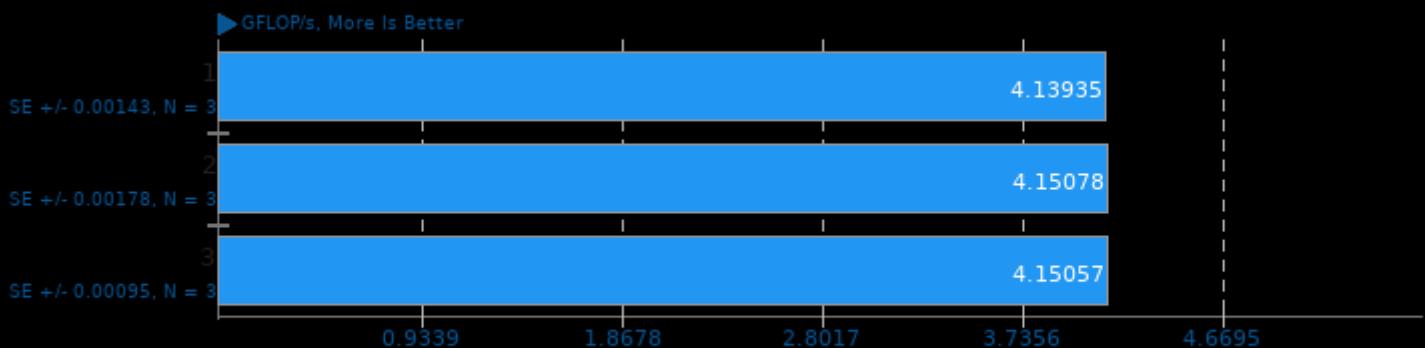
2. Open MPI 4.0.3

## TensorFlow Lite 2020-08-23

Model: Mobilenet Quant



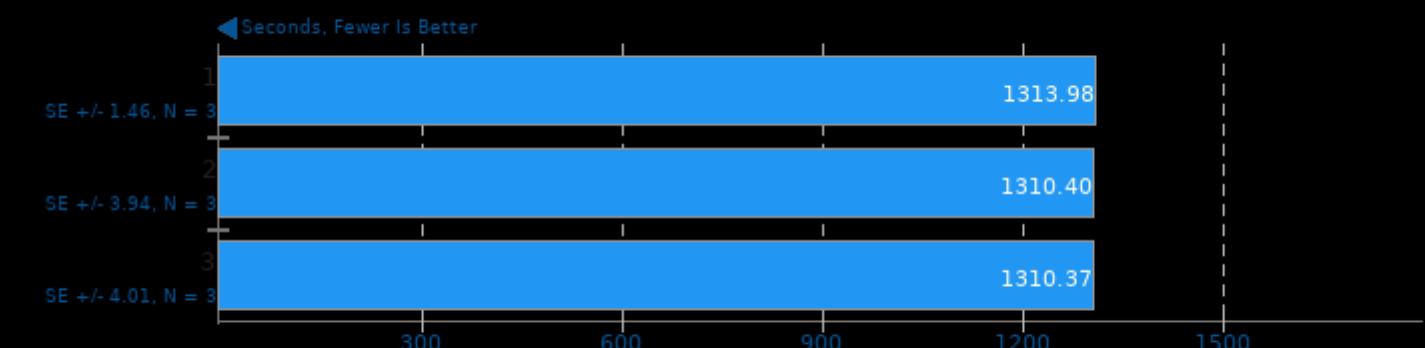
## High Performance Conjugate Gradient 3.1



1. (CXX) g++ options: -O3 -ffast-math -fno-tree-vectorize -fthread-cxx -fmpi

## OpenFOAM 8

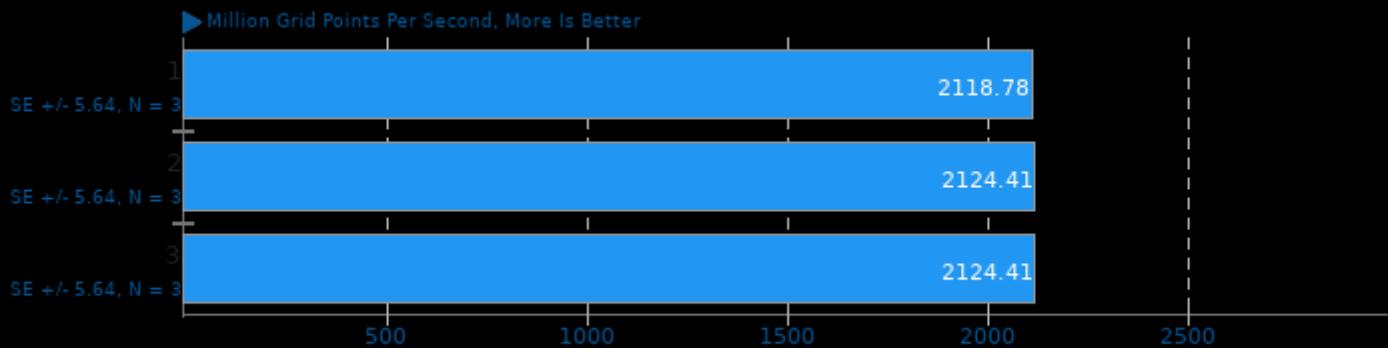
Input: Motorbike 60M



1. (CXX) g++ options: -std=c++11 -m64 -O3 -ftemplate-depth=100 -fPIC -fuse-lld=bfd -fno-linker -fno-add-needed -fno-no-as-needed -fno-foamToVTK -fno-dynamicMesh -

## ASKAP 1.0

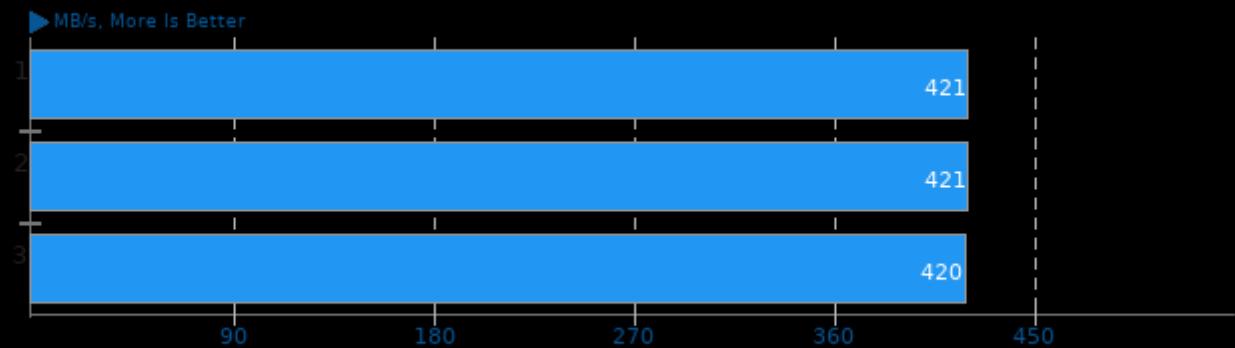
Test: tConvolve OpenMP - Degridding



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

## Izbench 1.8

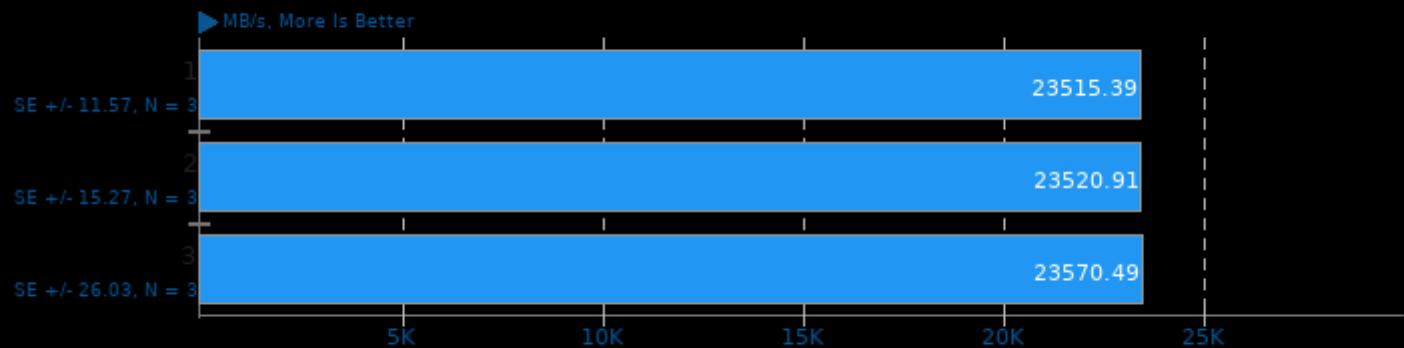
Test: Brotli 0 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

## Stream-Dynamic 1.0

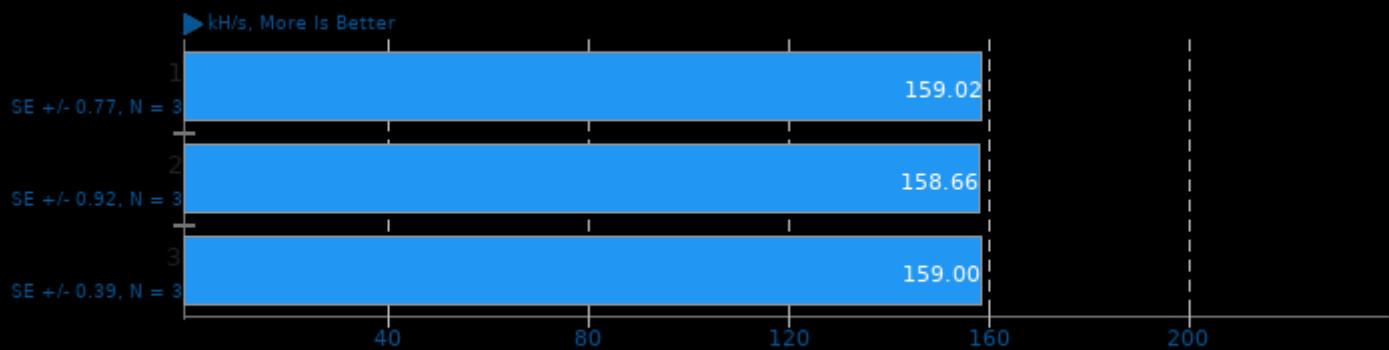
- Scale



1. (CXX) g++ options: -Ofast -mcmodel=large -mavx2 -fpp-contract=fast -march=native -fopenmp

## Cpuminer-Opt 3.15.5

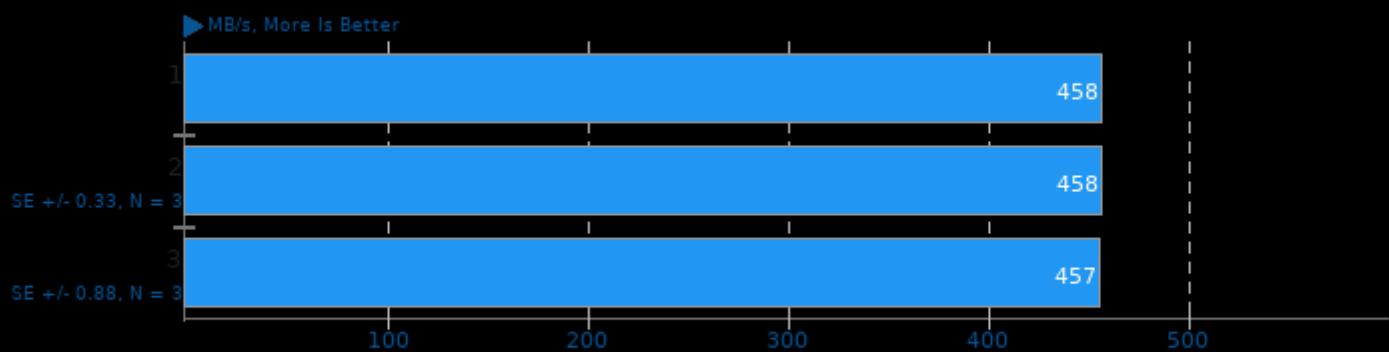
Algorithm: x25x



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

## Izbench 1.8

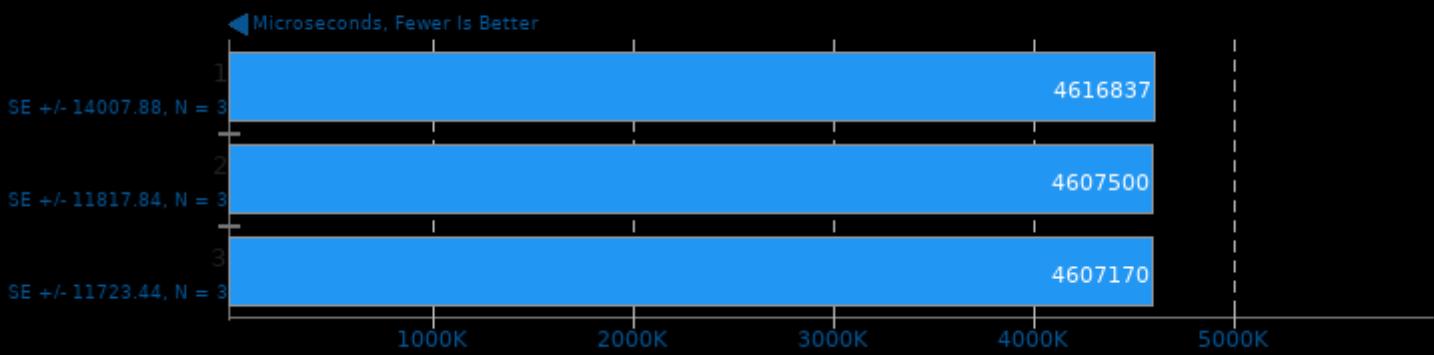
Test: Zstd 1 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

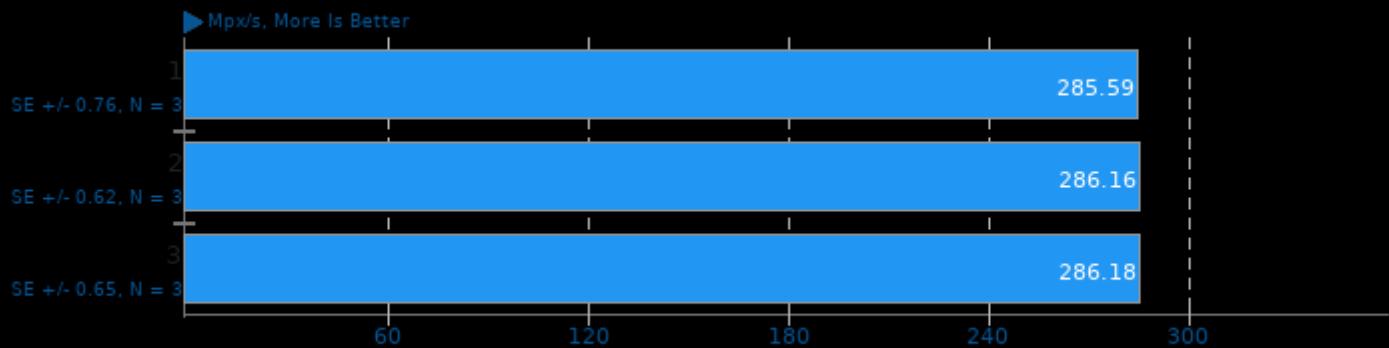
## TensorFlow Lite 2020-08-23

Model: Inception ResNet V2



## EtcPak 0.7

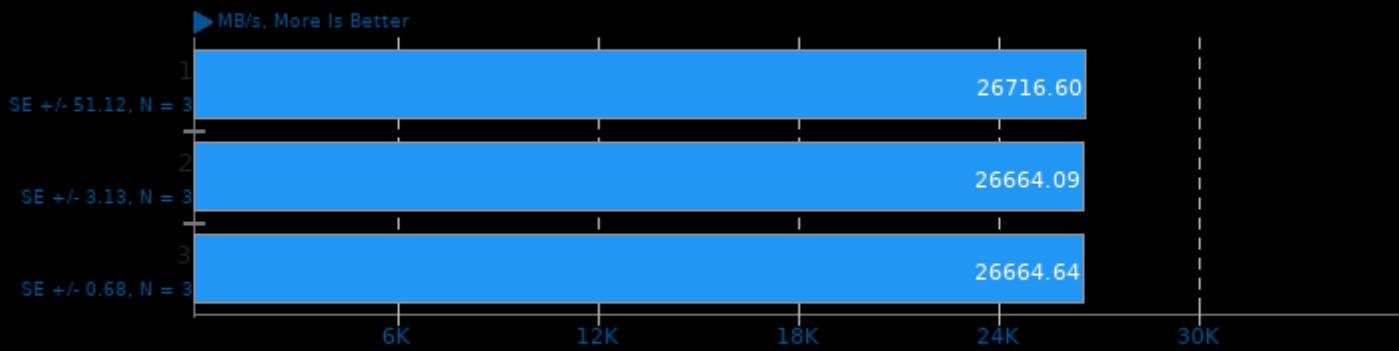
Configuration: ETC1



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

## Stream-Dynamic 1.0

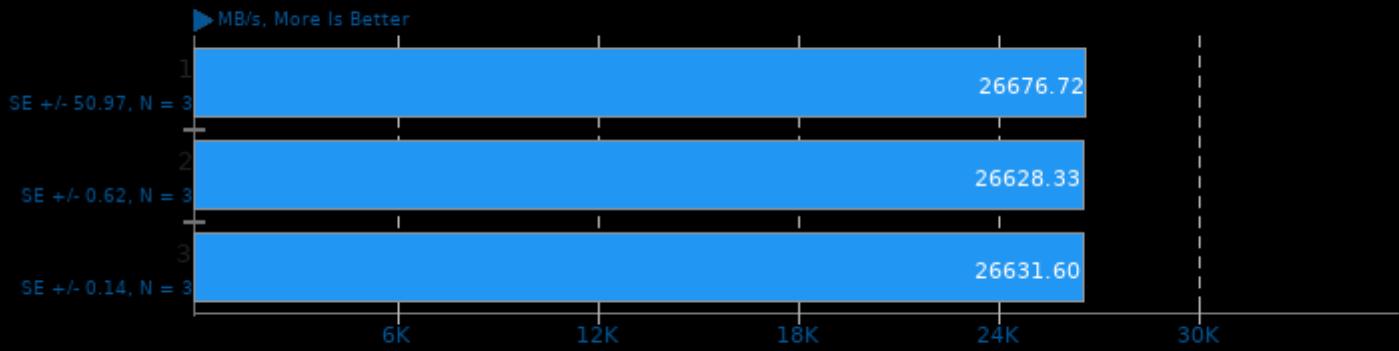
- Add



1. (CXX) g++ options: -Ofast -mcmodel=large -mavx2 -ffp-contract=fast -march=native -fopenmp

## Stream-Dynamic 1.0

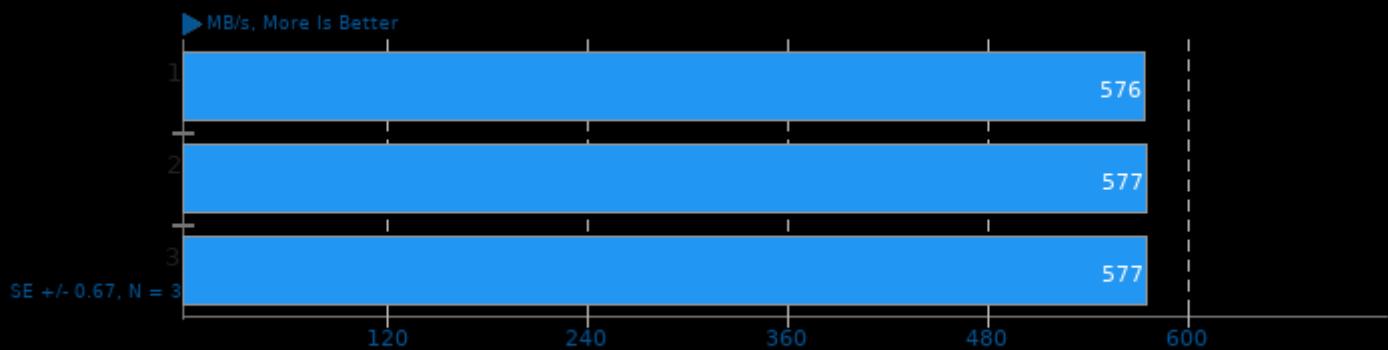
- Triad



1. (CXX) g++ options: -Ofast -mcmodel=large -mavx2 -ffp-contract=fast -march=native -fopenmp

## Izbench 1.8

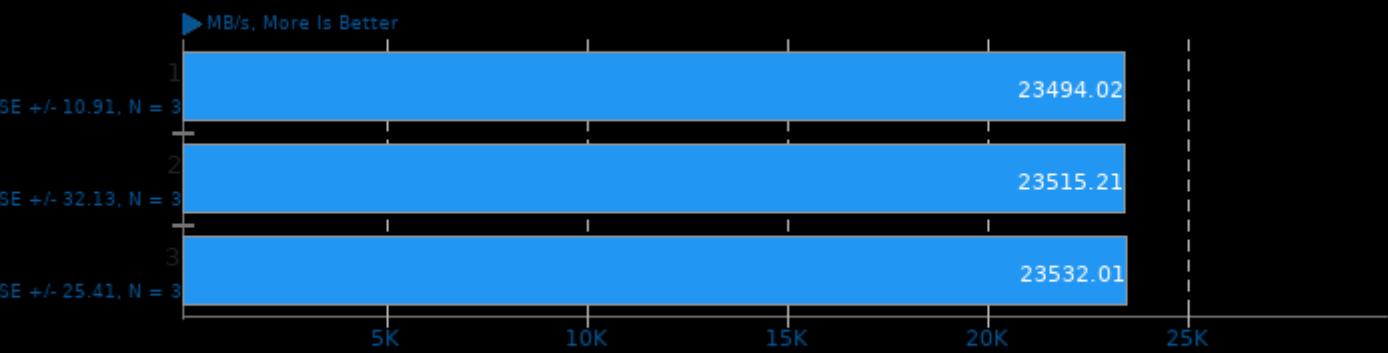
Test: Brotli 0 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

## Stream-Dynamic 1.0

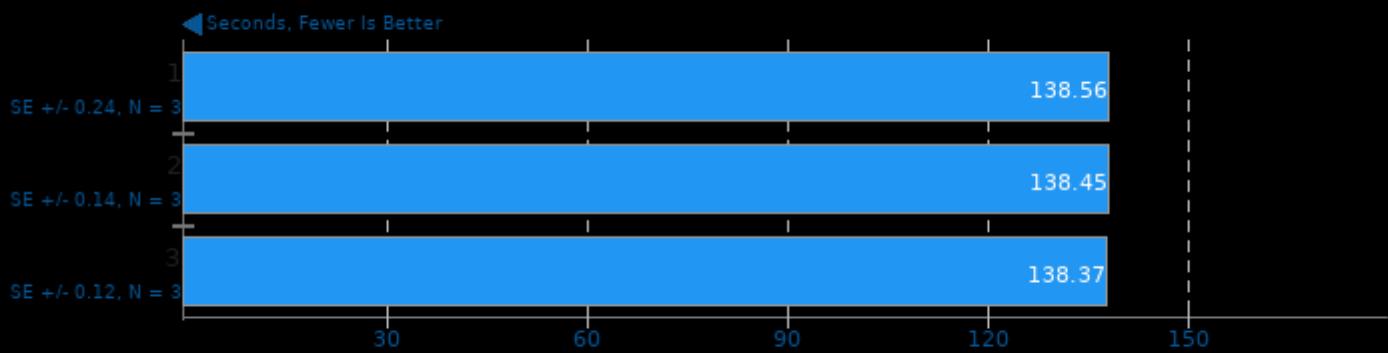
- Copy



1. (CXX) g++ options: -Ofast -mcmodel=large -mavx2 -ffp-contract=fast -march=native -fopenmp

## Ngspice 34

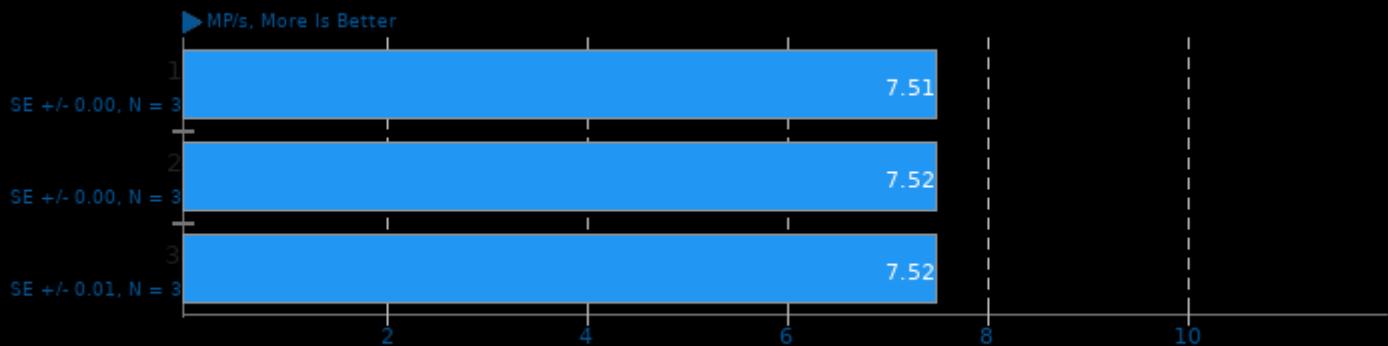
Circuit: C2670



1. (CC) gcc options: -O0 -fopenmp -lm -lstdc++ -lfftw3 -lXaw -lXmu -lXt -lXext -lX11 -lSM -lICE

## JPEG XL 0.3.1

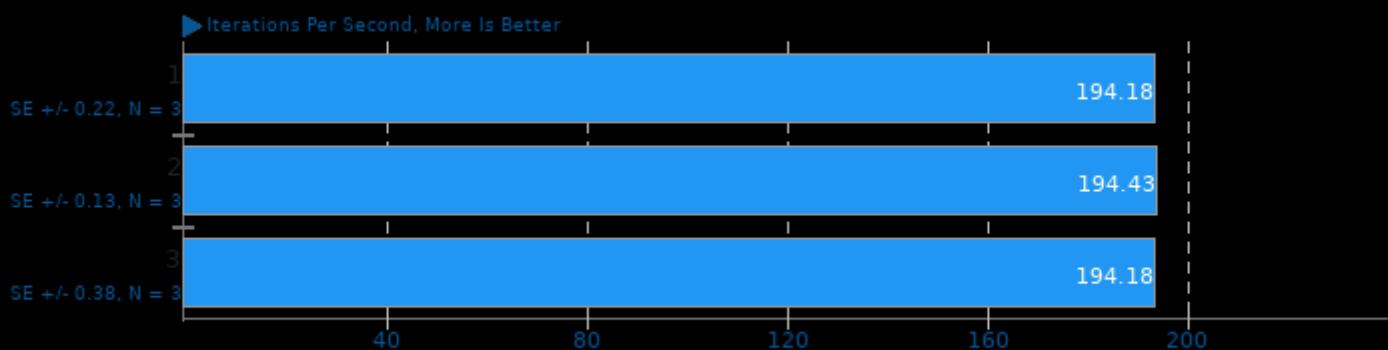
Input: PNG - Encode Speed: 7



1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie -ldl

## ASKAP 1.0

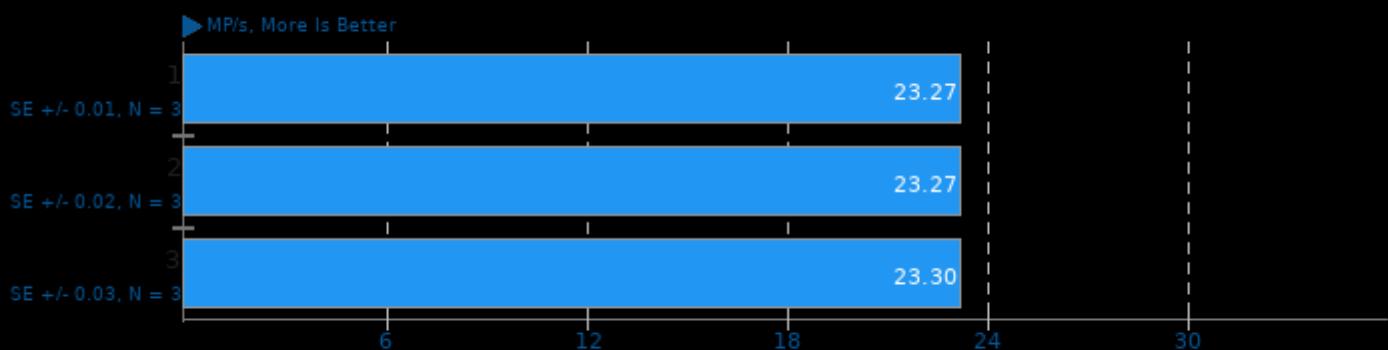
Test: Hogbom Clean OpenMP



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

## JPEG XL 0.3.1

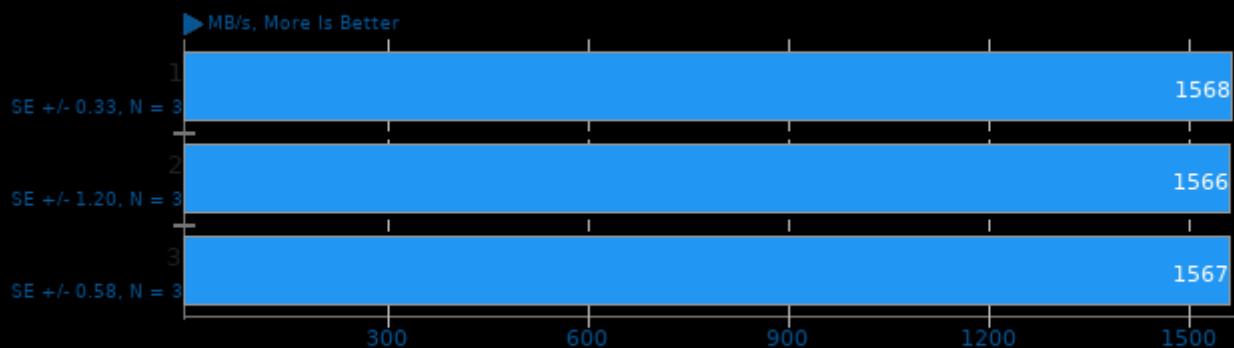
Input: JPEG - Encode Speed: 8



1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie -ldl

## Izbench 1.8

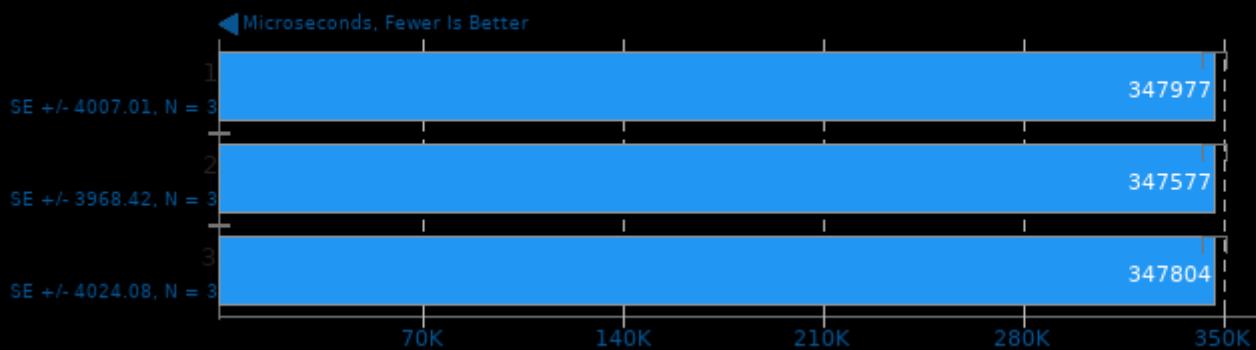
Test: Zstd 1 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

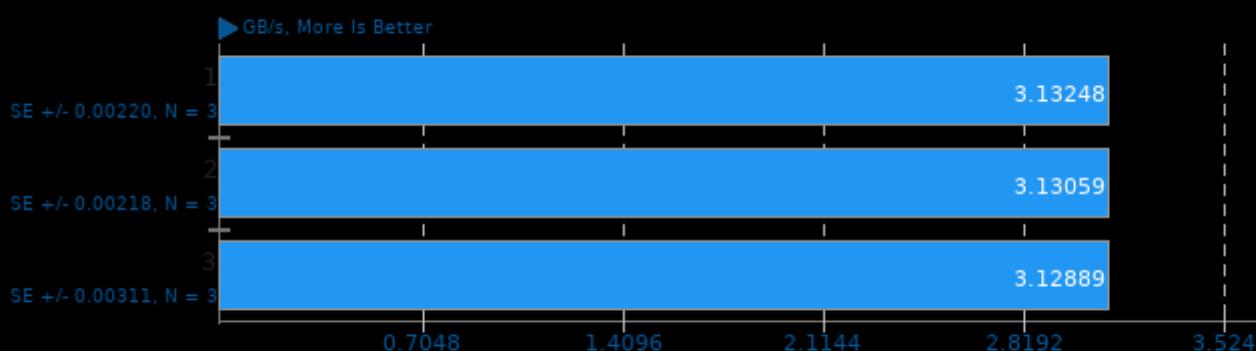
## TensorFlow Lite 2020-08-23

Model: SqueezeNet



## HPC Challenge 1.5.0

Test / Class: EP-STREAM Triad

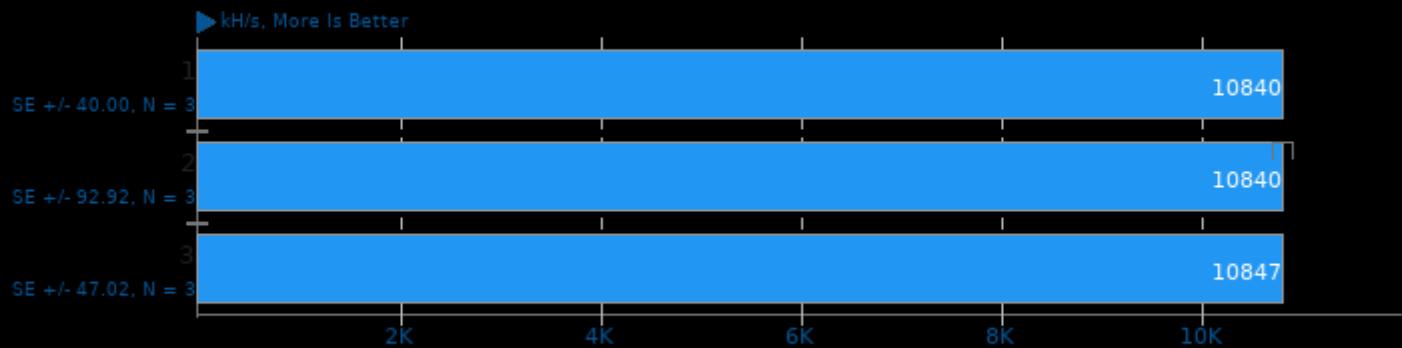


1. (CC) gcc options: -lblas -lm -pthread -lmpi -fomit-frame-pointer -funroll-loops

2. ATLAS + Open MPI 4.0.3

## Cpuminer-Opt 3.15.5

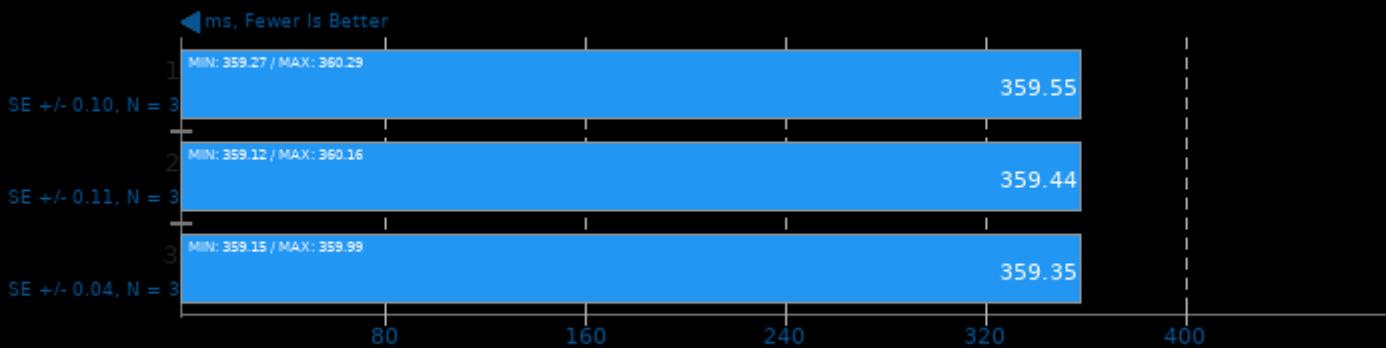
Algorithm: Myriad-Groestl



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

## TNN 0.2.3

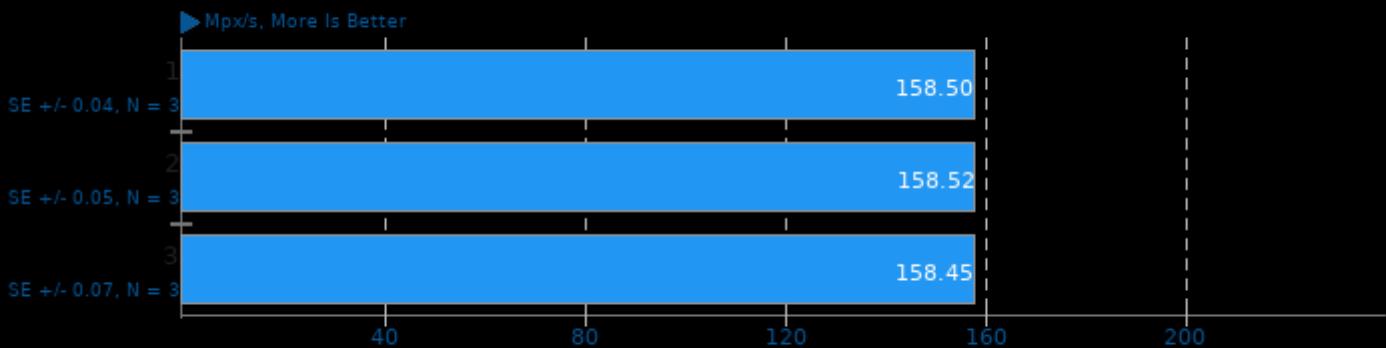
Target: CPU - Model: SqueezeNet v1.1



1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -O3 -rdynamic -ldl

## EtcPak 0.7

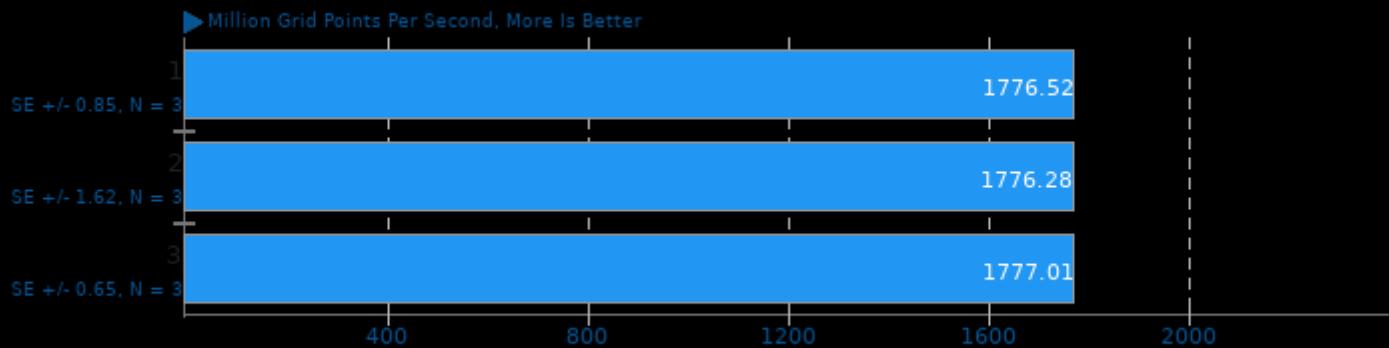
Configuration: ETC2



1. (CXX) g++ options: -O3 -march=native -std=c++11 -pthread

## ASKAP 1.0

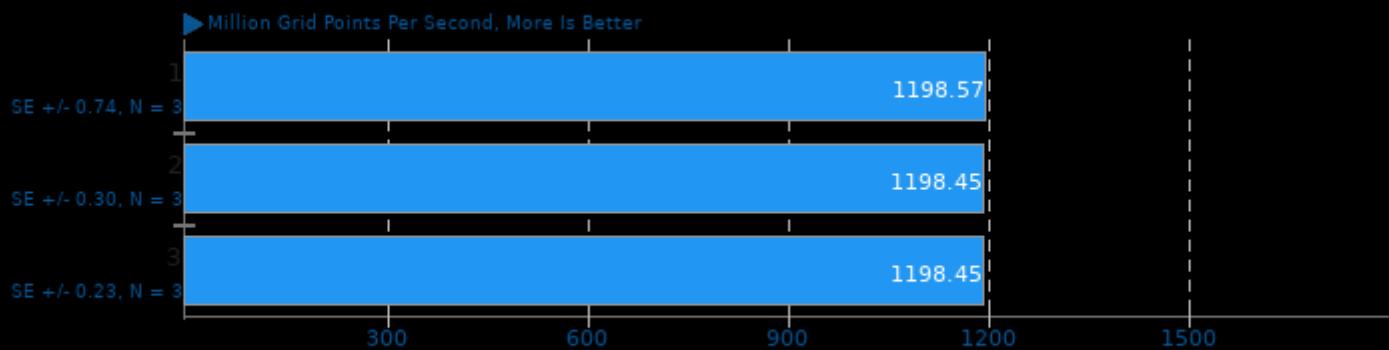
Test: tConvolve MT - Degridding



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

## ASKAP 1.0

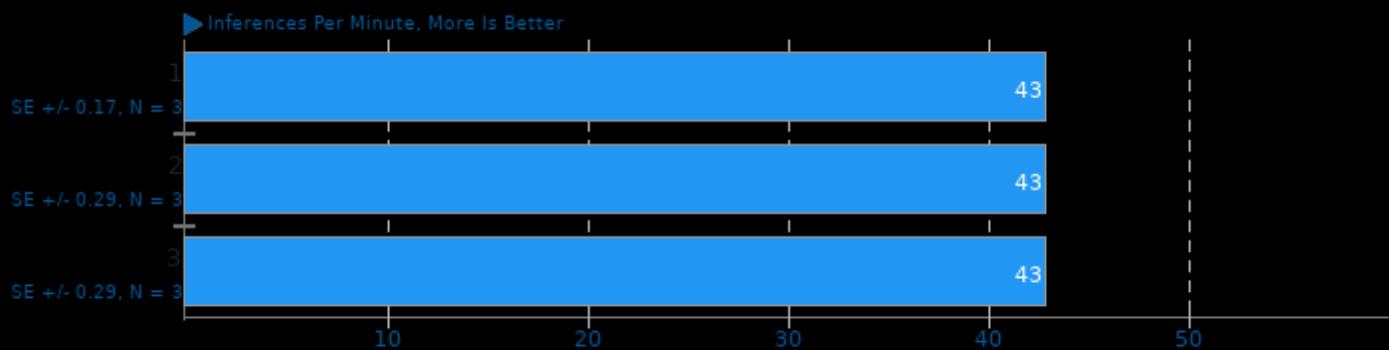
Test: tConvolve MT - Gridding



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

## ONNX Runtime 1.6

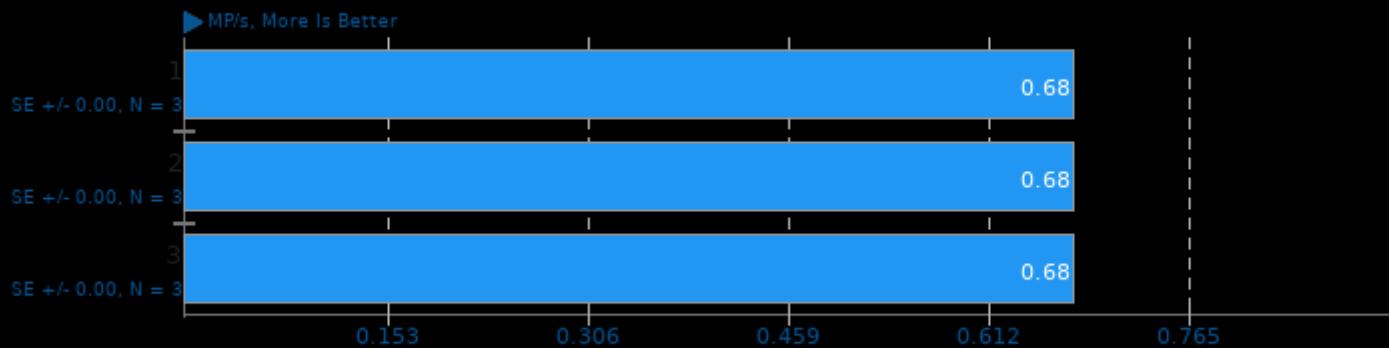
Model: fcn-resnet101-11 - Device: OpenMP CPU



1. (CXX) g++ options: -fopenmp -ffunction-sections -fdata-sections -O3 -ldl -lrt

## JPEG XL 0.3.1

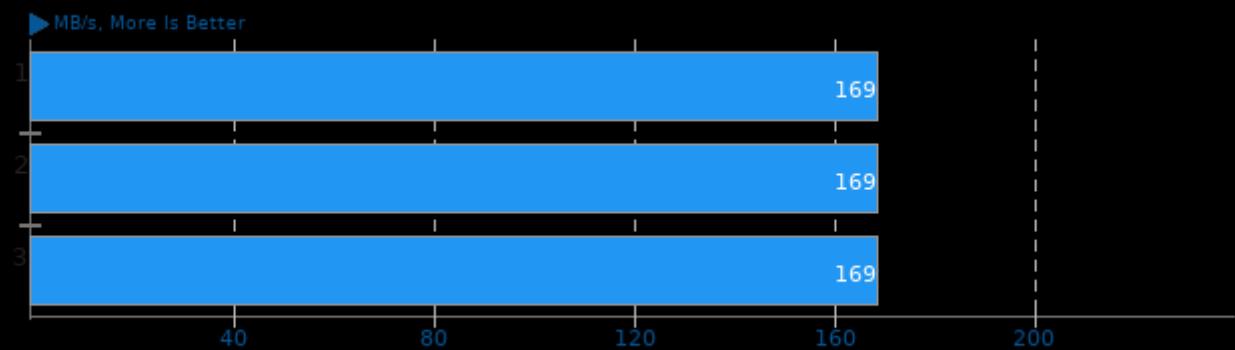
Input: PNG - Encode Speed: 8



1. (CXX) g++ options: -funwind-tables -O3 -O2 -pthread -fPIE -pie -ldl

## Izbench 1.8

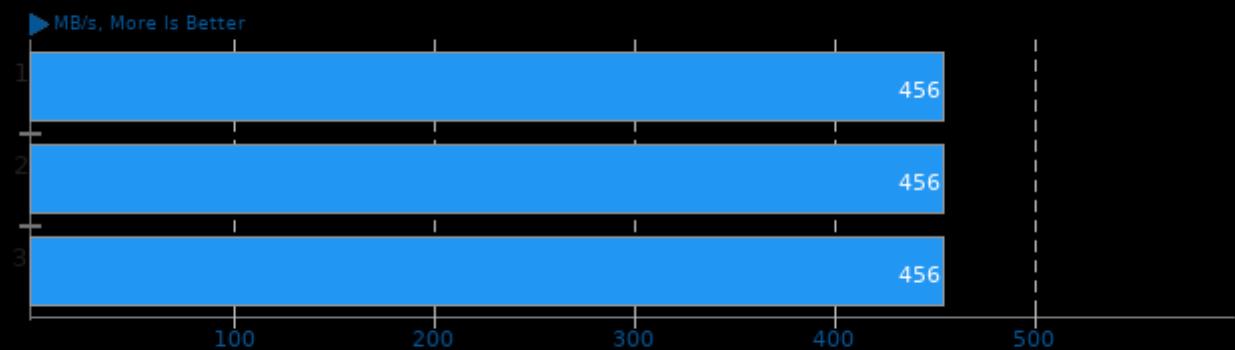
Test: Brotli 2 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

## Izbench 1.8

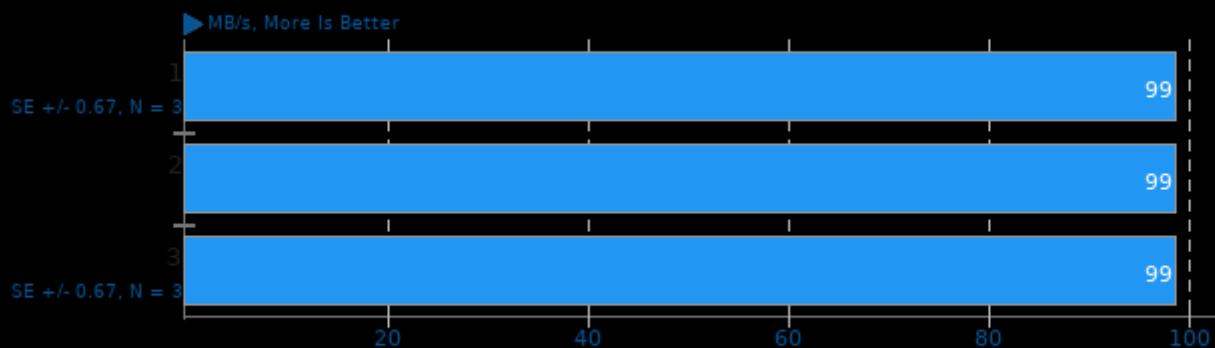
Test: Crush 0 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

## Izbench 1.8

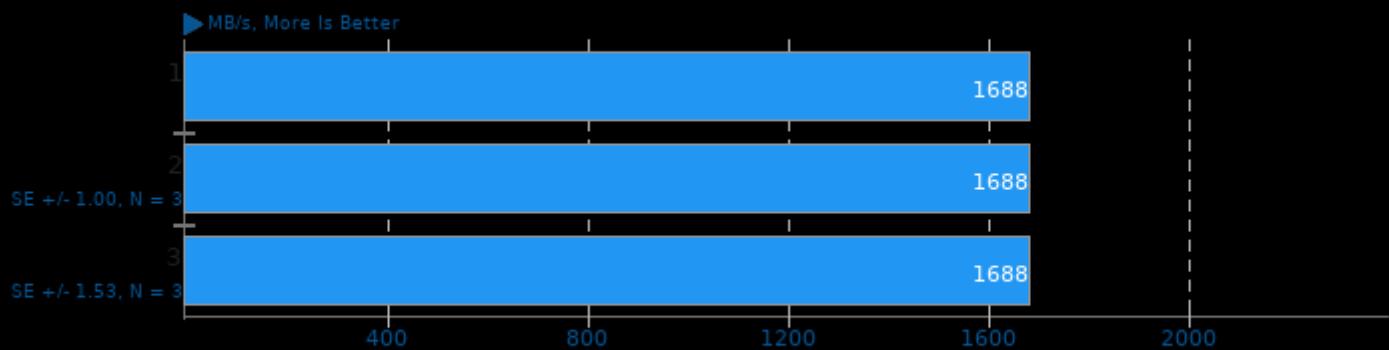
Test: Crush 0 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

## Izbench 1.8

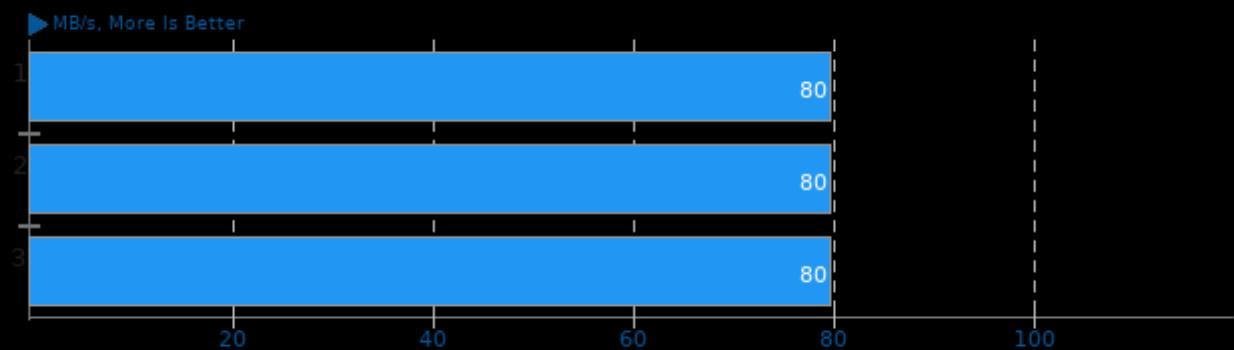
Test: Zstd 8 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

## Izbench 1.8

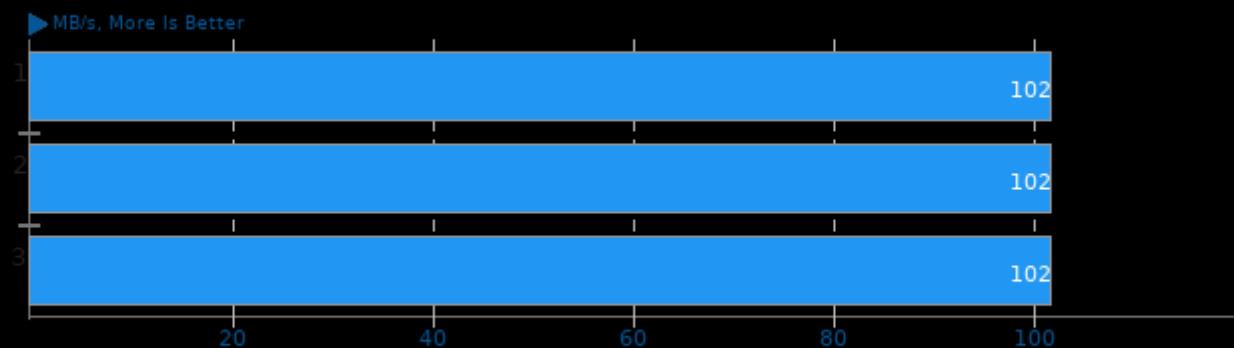
Test: Zstd 8 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

## Izbench 1.8

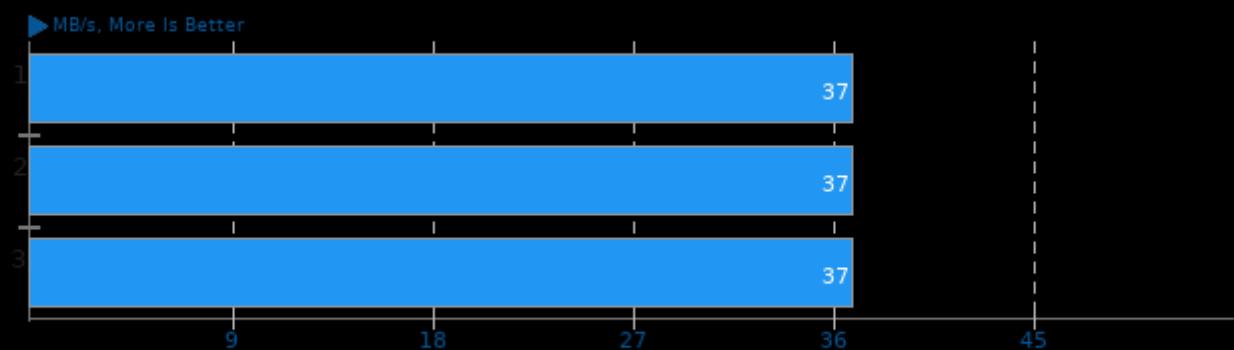
Test: XZ 0 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

## Izbench 1.8

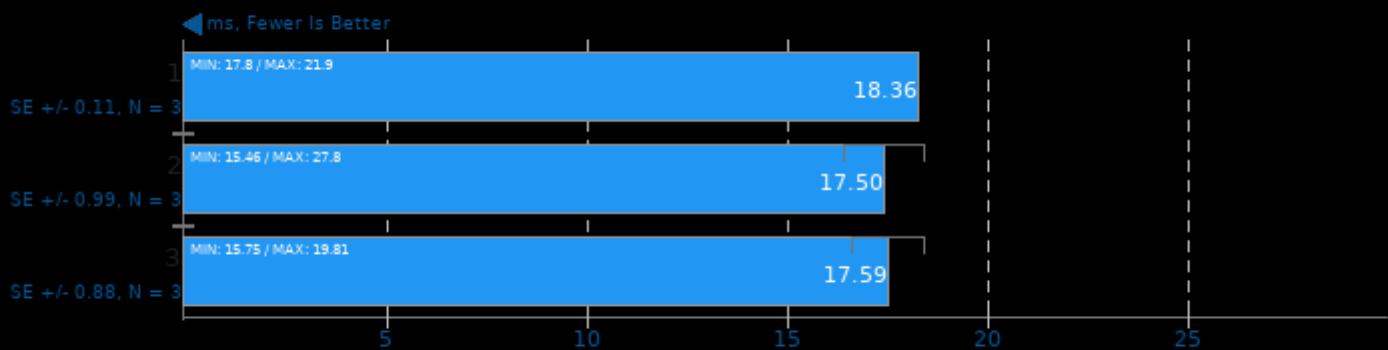
Test: XZ 0 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

## NCNN 20201218

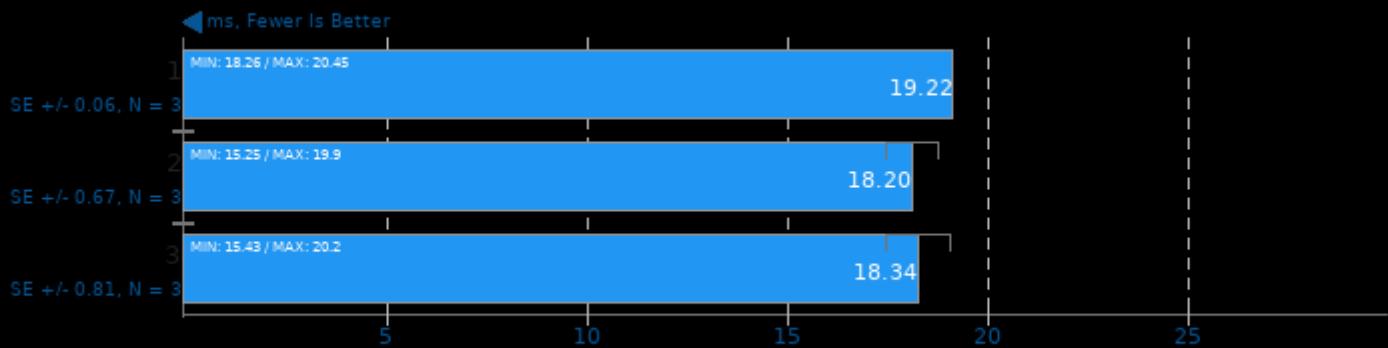
Target: CPU - Model: regnety\_400m



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

## NCNN 20201218

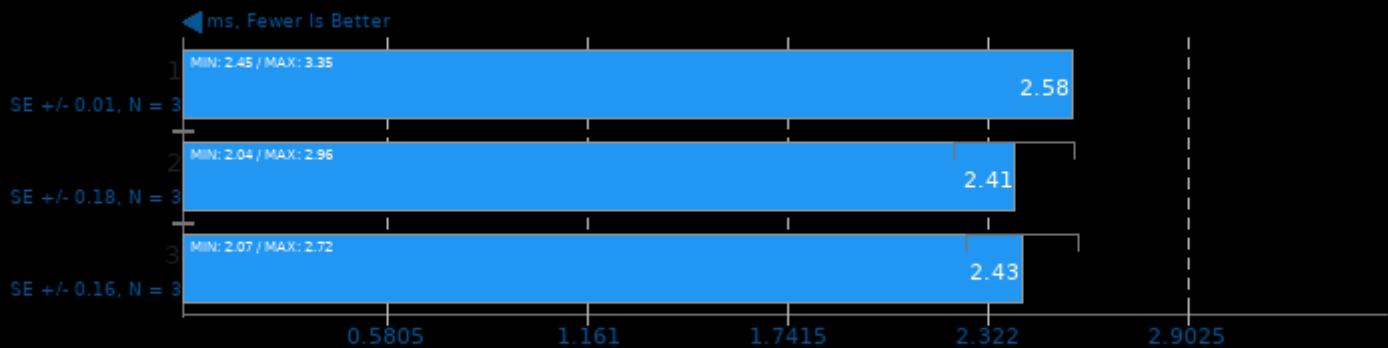
Target: CPU - Model: googlenet



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

## NCNN 20201218

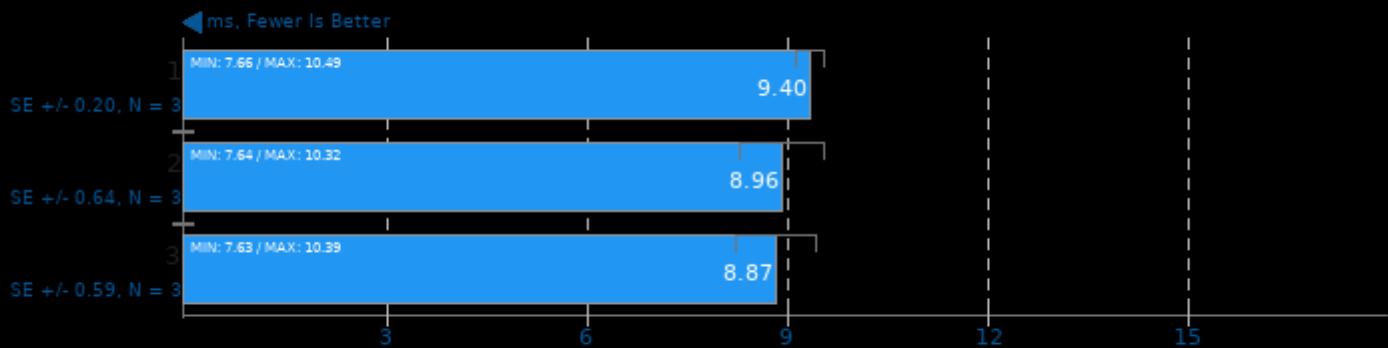
Target: CPU - Model: blazeface



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

## NCNN 20201218

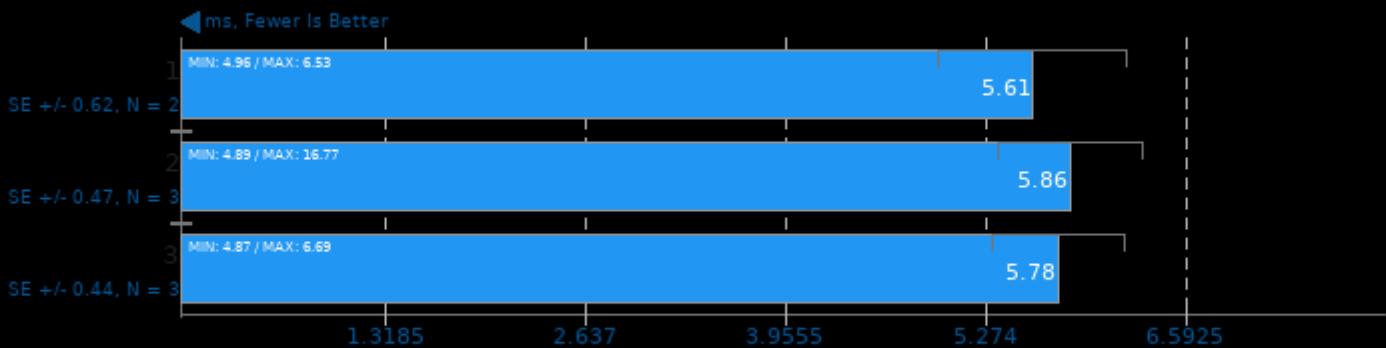
Target: CPU - Model: efficientnet-b0



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

**NCNN 20201218**

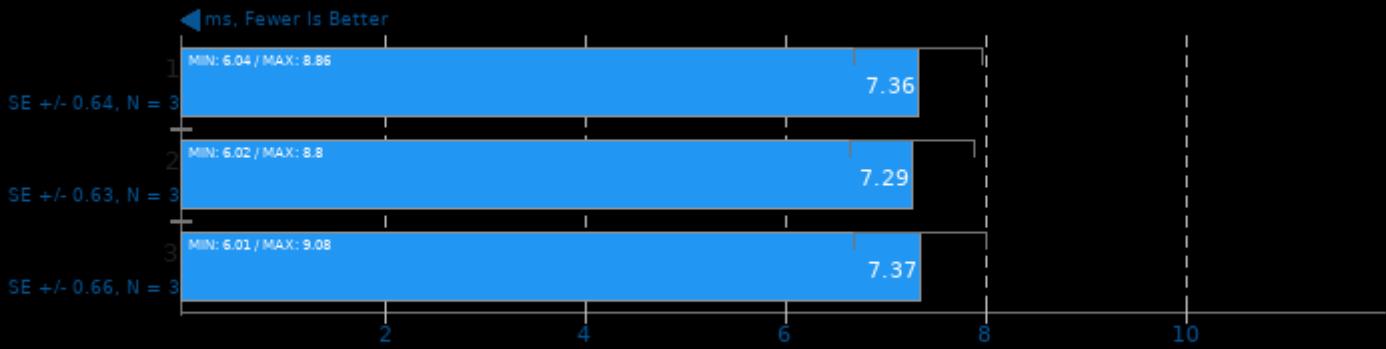
Target: CPU - Model: mnasnet



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

**NCNN 20201218**

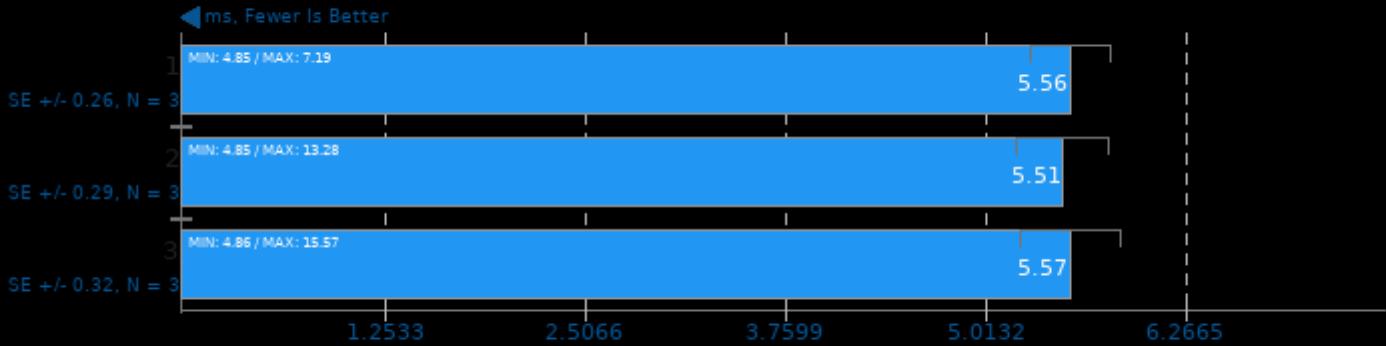
Target: CPU - Model: shufflenet-v2



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

**NCNN 20201218**

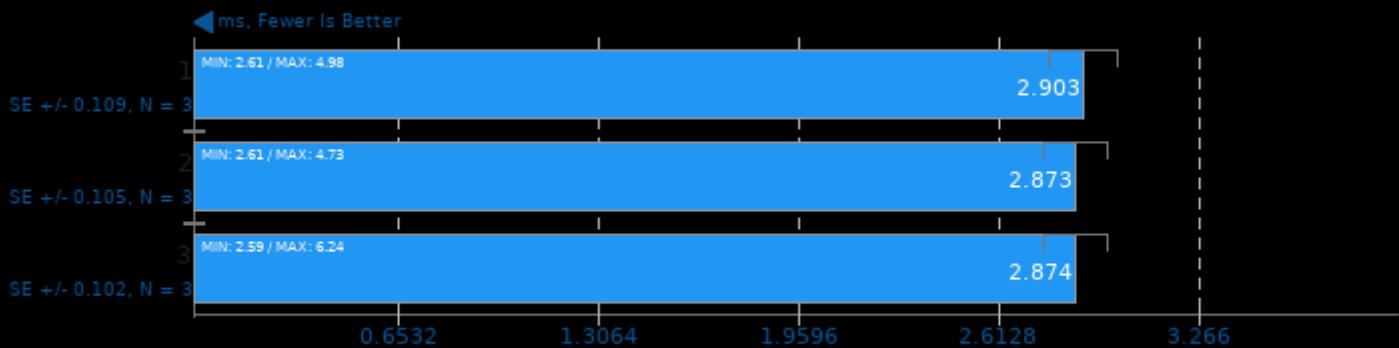
Target: CPU-v3-v3 - Model: mobilenet-v3



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

## Mobile Neural Network 1.1.1

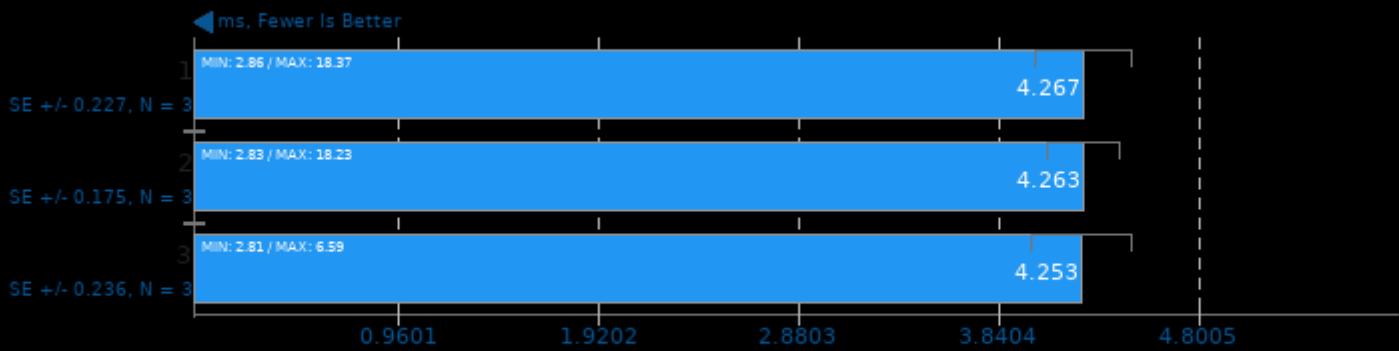
Model: mobilenet-v1-1.0



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

## Mobile Neural Network 1.1.1

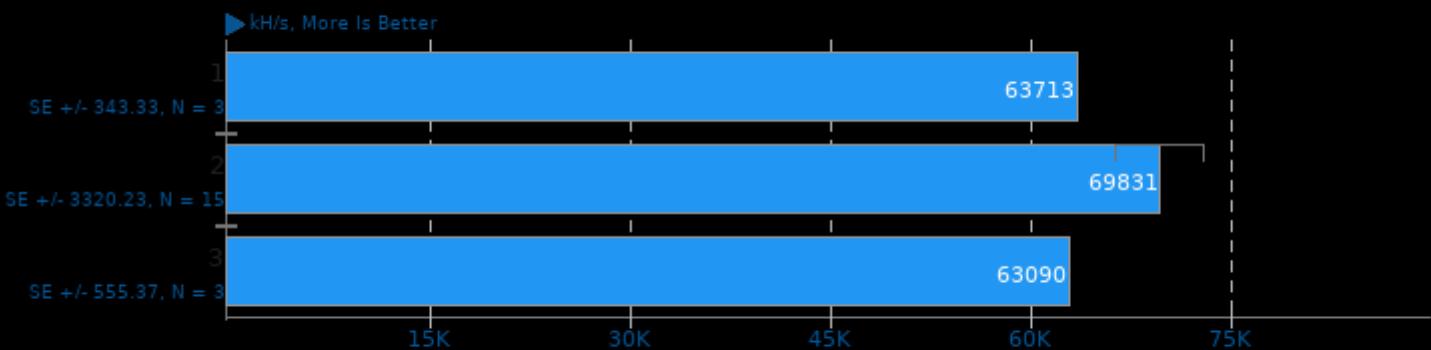
Model: MobileNetV2\_224



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

## Cpuminer-Opt 3.15.5

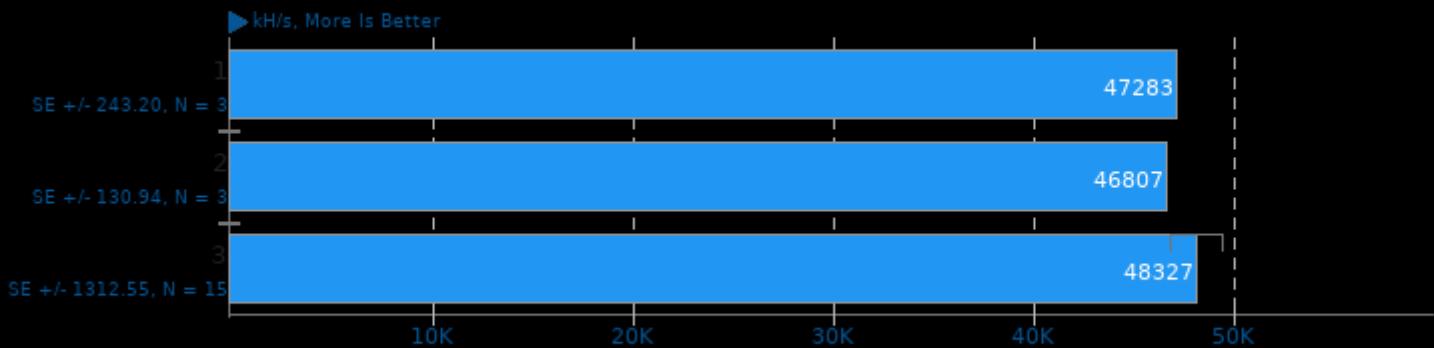
Algorithm: Triple SHA-256, Onecoin



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

## Cpuminer-Opt 3.15.5

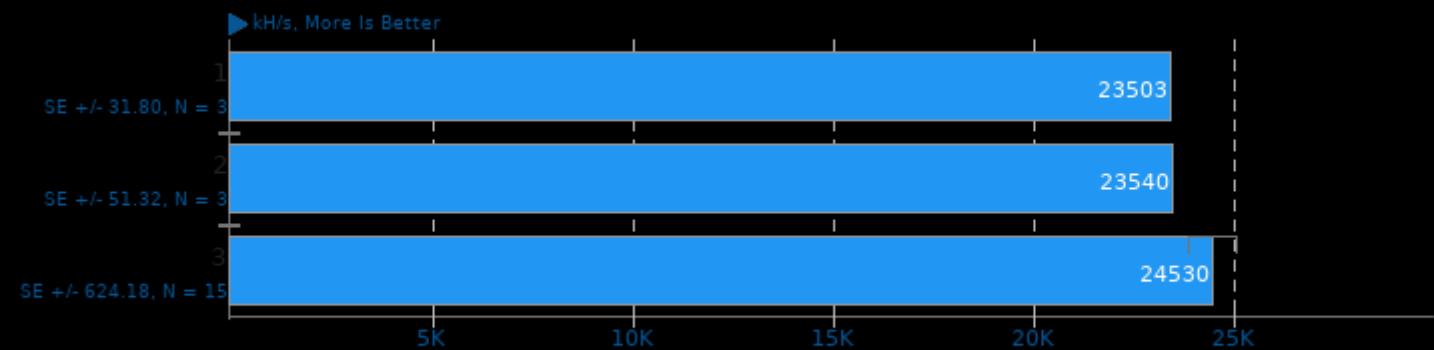
Algorithm: Quad SHA-256, Pyrite



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

## Cpuminer-Opt 3.15.5

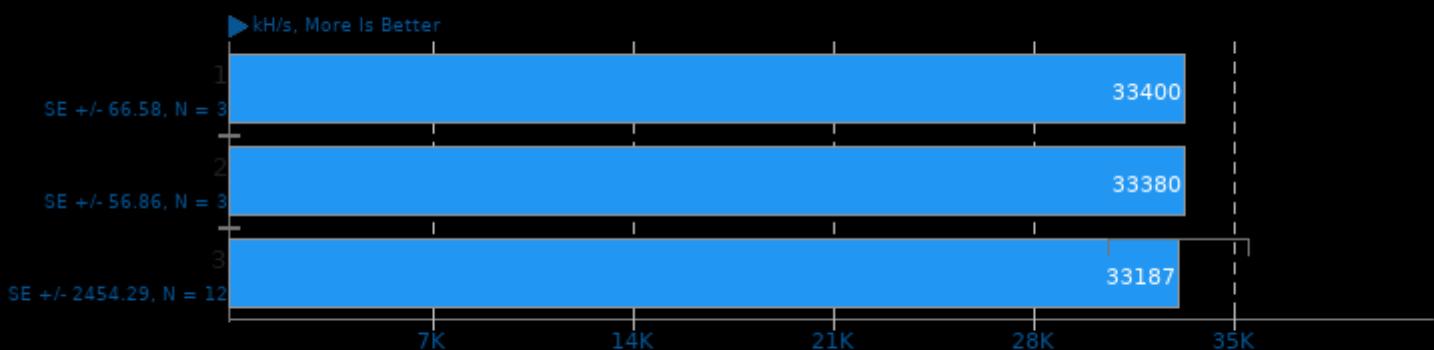
Algorithm: LBC, LBRY Credits



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

## Cpuminer-Opt 3.15.5

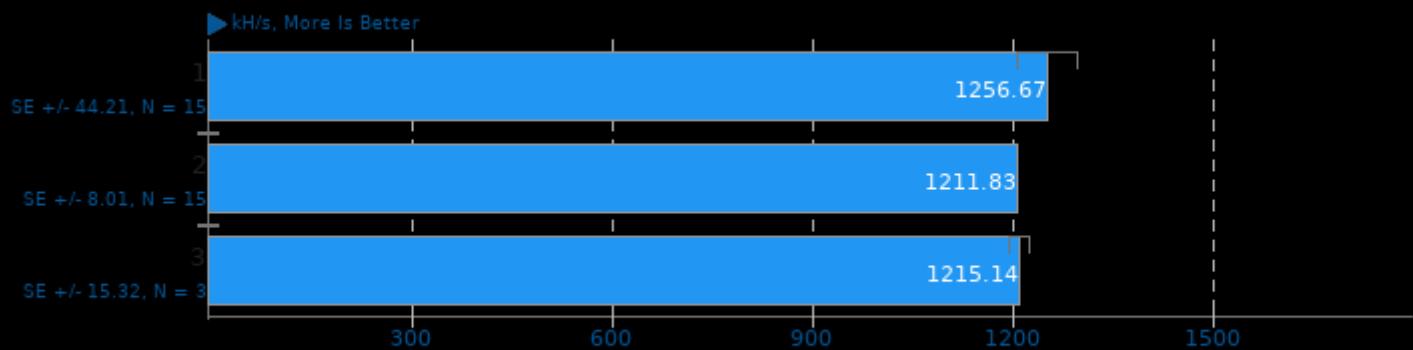
Algorithm: Skeincoin



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

## Cpuminer-Opt 3.15.5

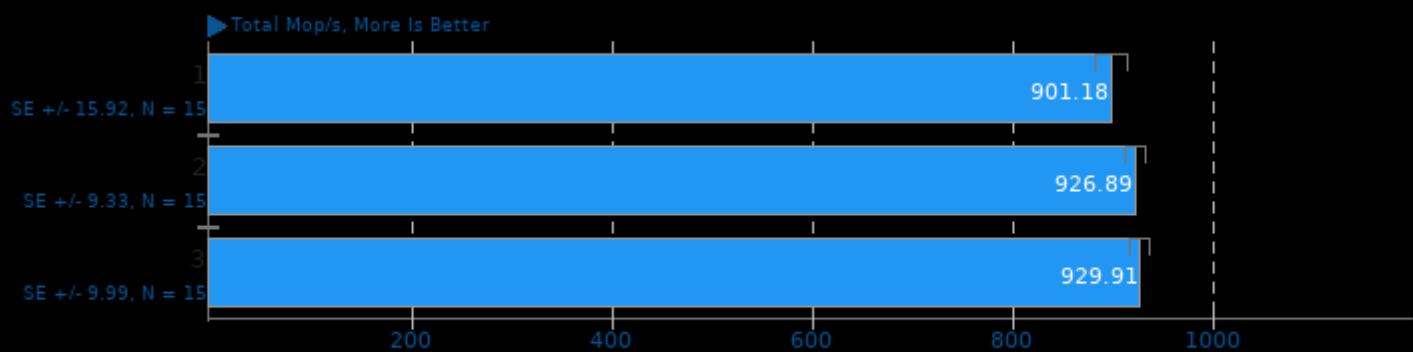
Algorithm: Garlicoin



1. (CXX) g++ options: -O2 -curl -lz -pthread -lssl -lcrypto -lgmp

## NAS Parallel Benchmarks 3.4

Test / Class: EP.C

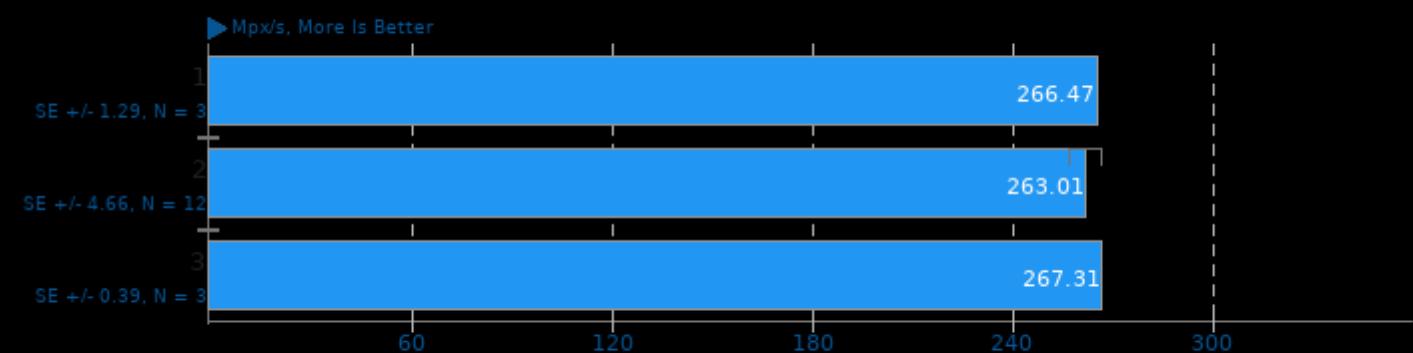


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi\_usempif08 -lmpi\_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -ldl -levent -levent\_pthreads -lutil

2. Open MPI 4.0.3

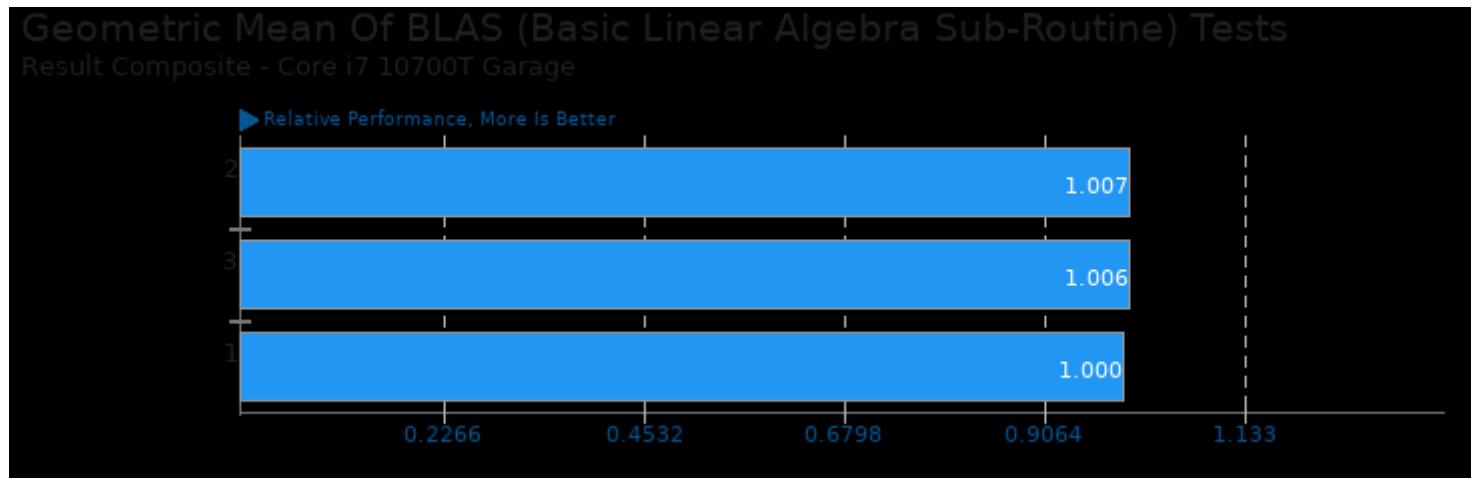
## EtcPak 0.7

Configuration: ETC1 + Dithering

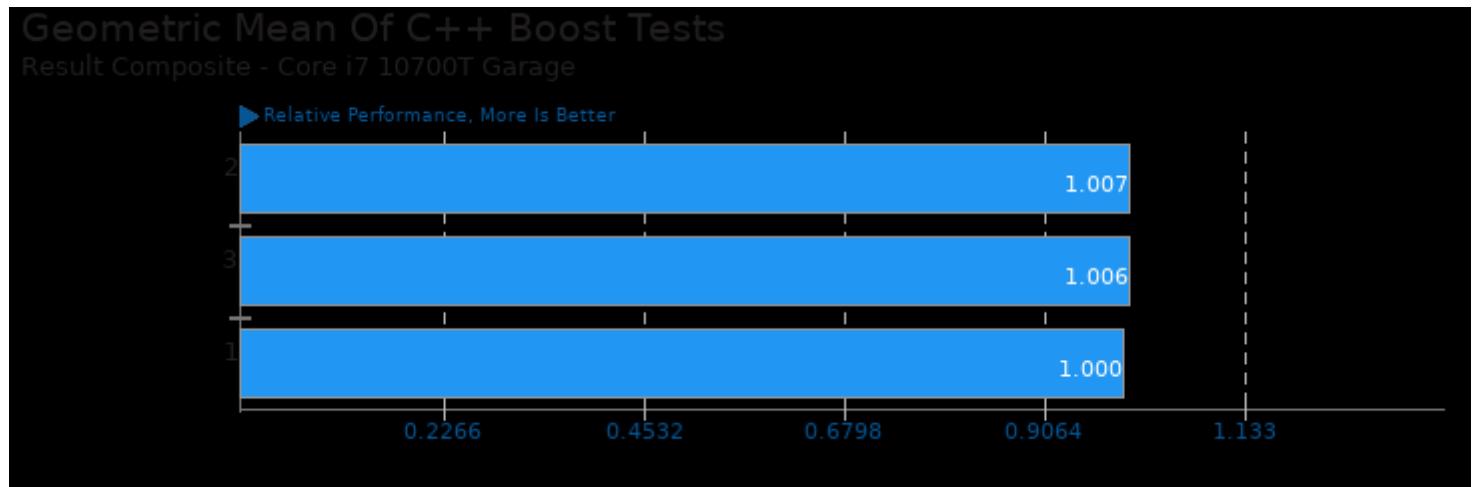


1. (CXX) g++ options: -O3 -march=native -std=c++11 -pthread

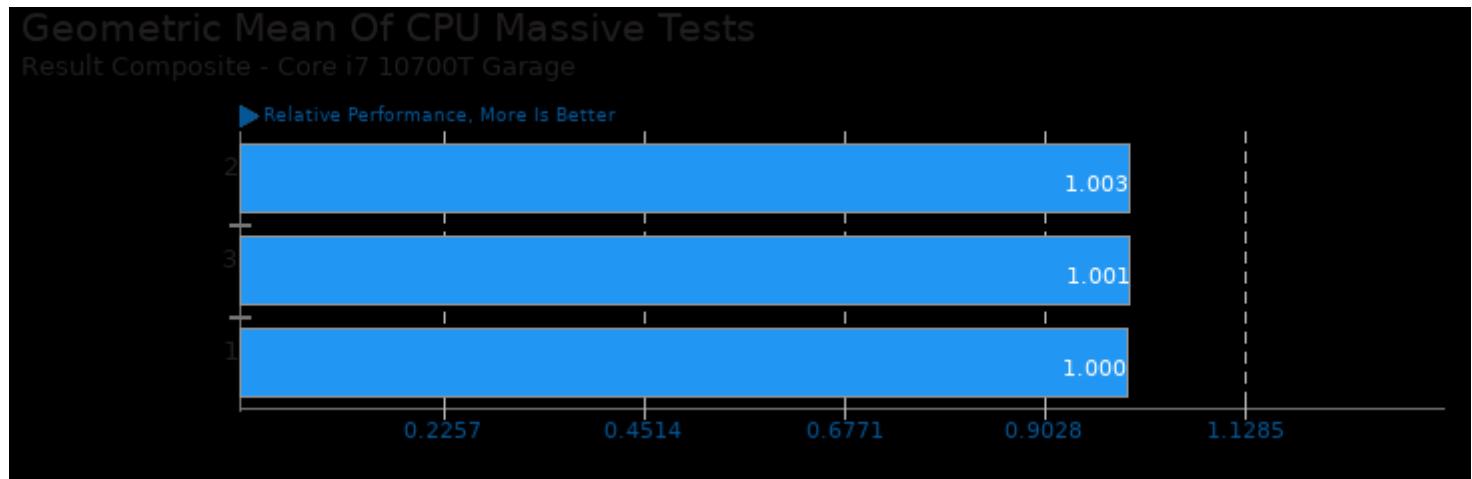
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/qe and pts/hpcc



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

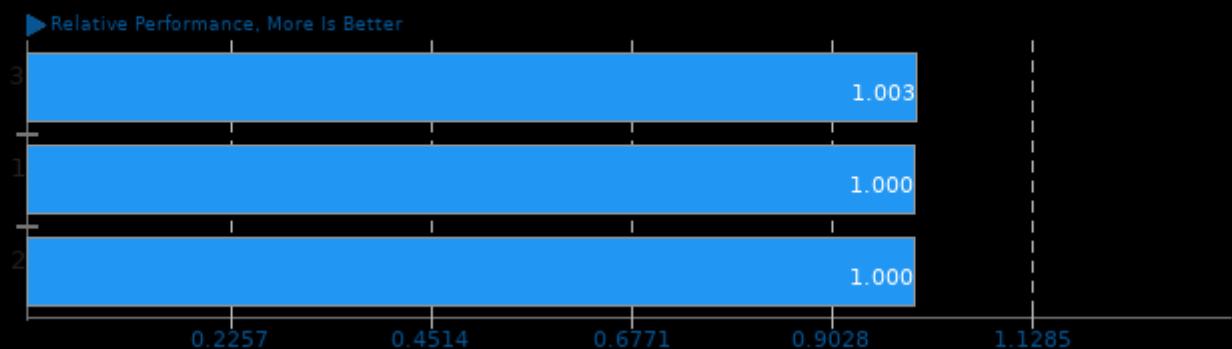


Geometric mean based upon tests: pts/hpcc, pts/hpcg, pts/lzbench, pts/npb and pts/cpuminer-opt

## Core i7 10700T Garage

### Geometric Mean Of Creator Workloads Tests

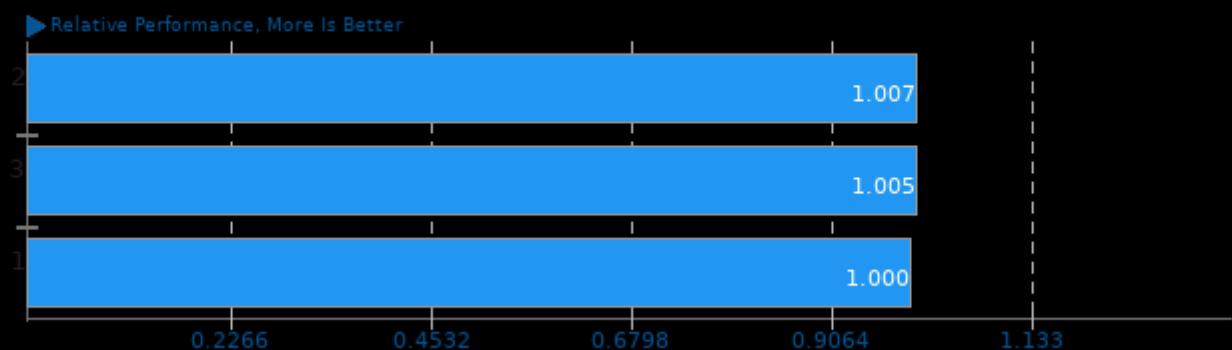
Result Composite - Core i7 10700T Garage



Geometric mean based upon tests: pts/jpegxl, pts/jpegxl-decode, pts/etcpak, pts/synthmark and pts/ngspice

### Geometric Mean Of Fortran Tests

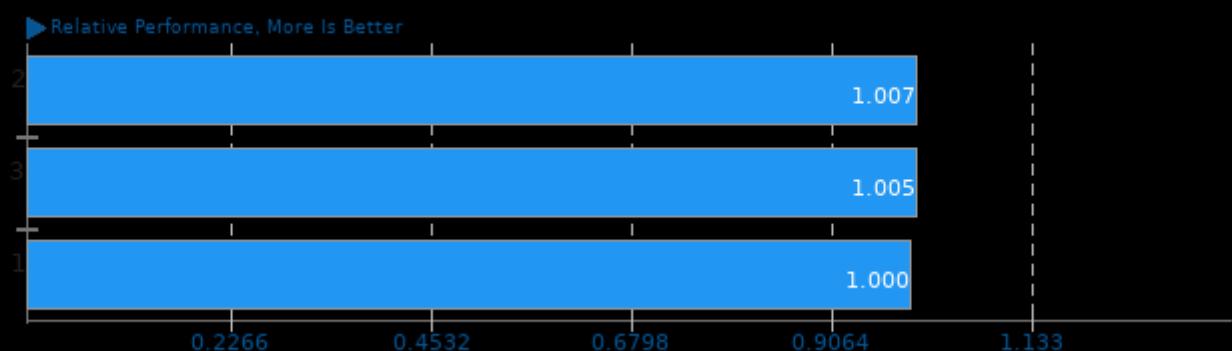
Result Composite - Core i7 10700T Garage



Geometric mean based upon tests: pts/npb, pts/qe, pts/hpcc and pts/hpcg

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

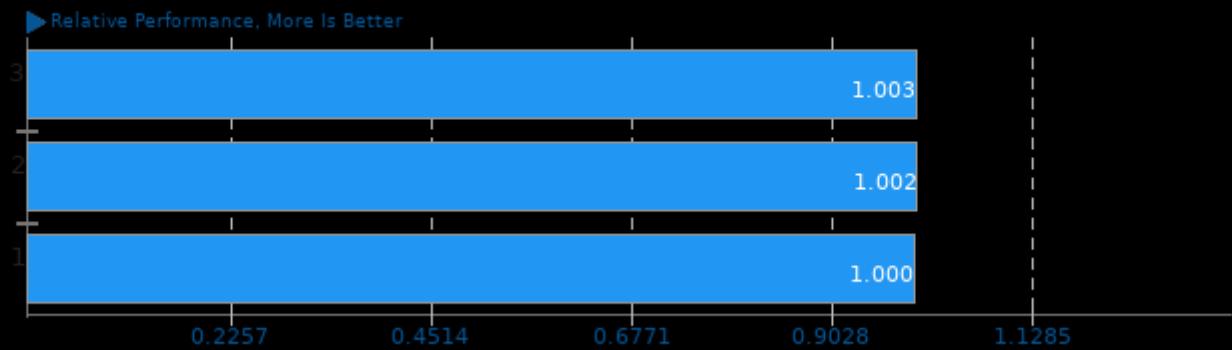
Result Composite - Core i7 10700T Garage



Geometric mean based upon tests: pts/npb, pts/hpcc, pts/hpcg, pts/askap, pts/qe, pts/openfoam, pts/mnn, pts/ncnn, pts/tnn, pts/tensorflow-lite and pts/onnx

### Geometric Mean Of Imaging Tests

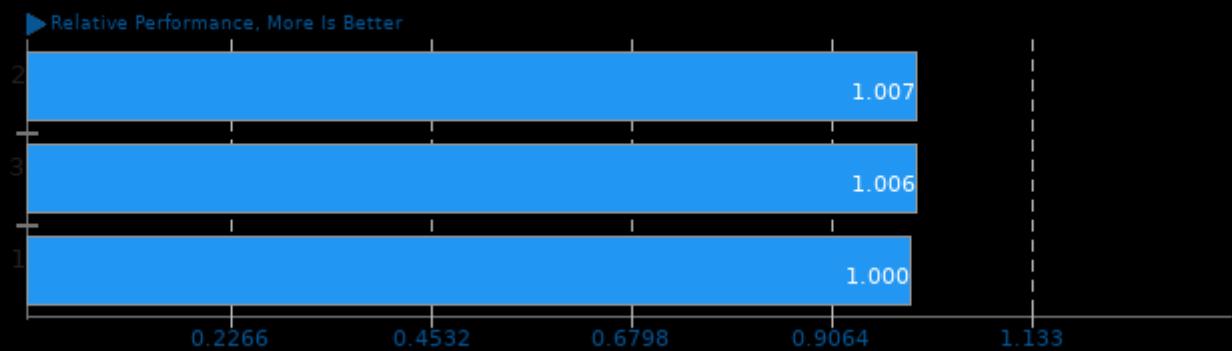
Result Composite - Core i7 10700T Garage



Geometric mean based upon tests: pts/jpegxl and pts/jpegxl-decode

### Geometric Mean Of LAPACK (Linear Algebra Pack) Tests

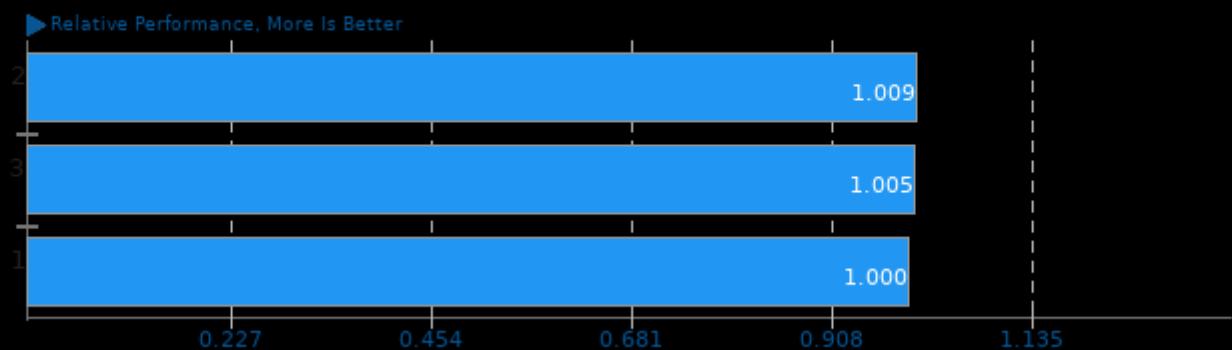
Result Composite - Core i7 10700T Garage



Geometric mean based upon tests: pts/qe and pts/hpcc

### Geometric Mean Of Machine Learning Tests

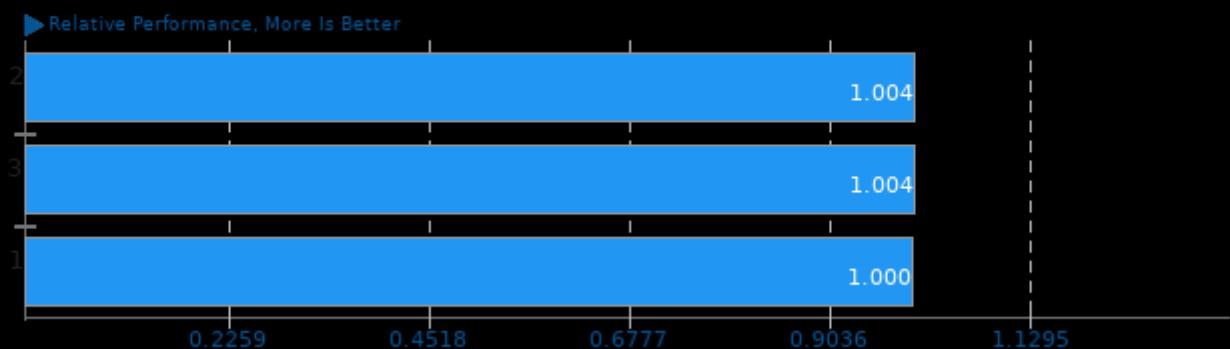
Result Composite - Core i7 10700T Garage



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

**Geometric Mean Of MPI Benchmarks Tests**

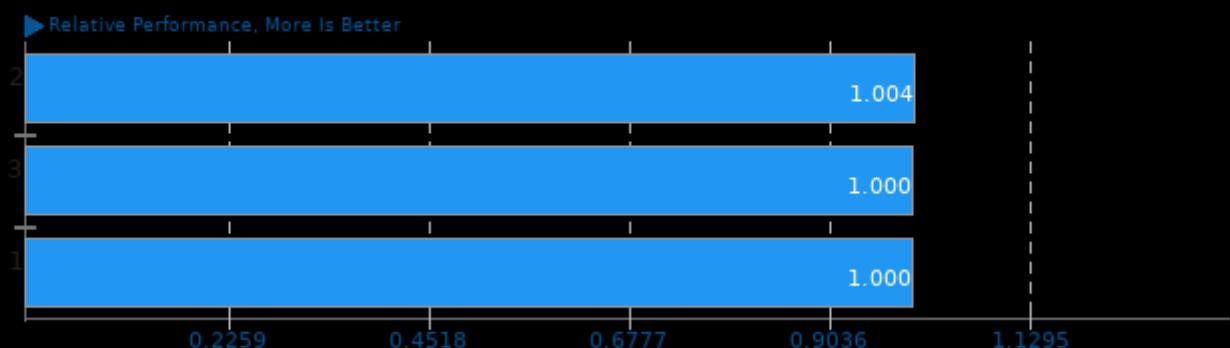
Result Composite - Core i7 10700T Garage



Geometric mean based upon tests: pts/askap, pts/hpcc, pts/hpcg and pts/npb

**Geometric Mean Of Multi-Core Tests**

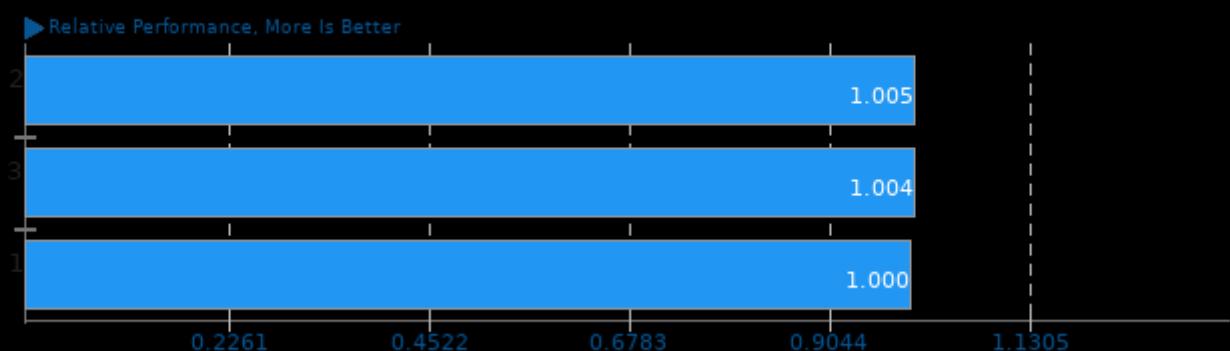
Result Composite - Core i7 10700T Garage



Geometric mean based upon tests: pts/cpuminer-opt, pts/askap, pts/npb and pts/hpcg

**Geometric Mean Of OpenMPI Tests**

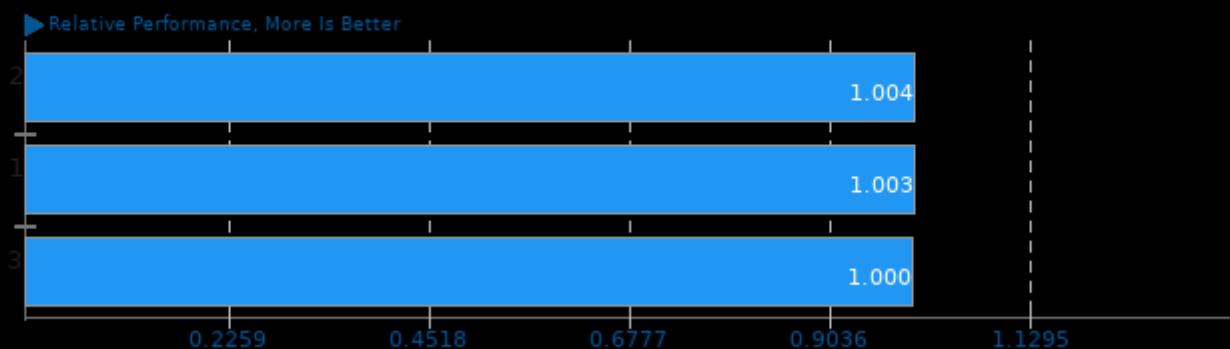
Result Composite - Core i7 10700T Garage



Geometric mean based upon tests: pts/npb, pts/openfoam, pts/qe, pts/hpcc, pts/askap and pts/hpcg

### Geometric Mean Of Python Tests

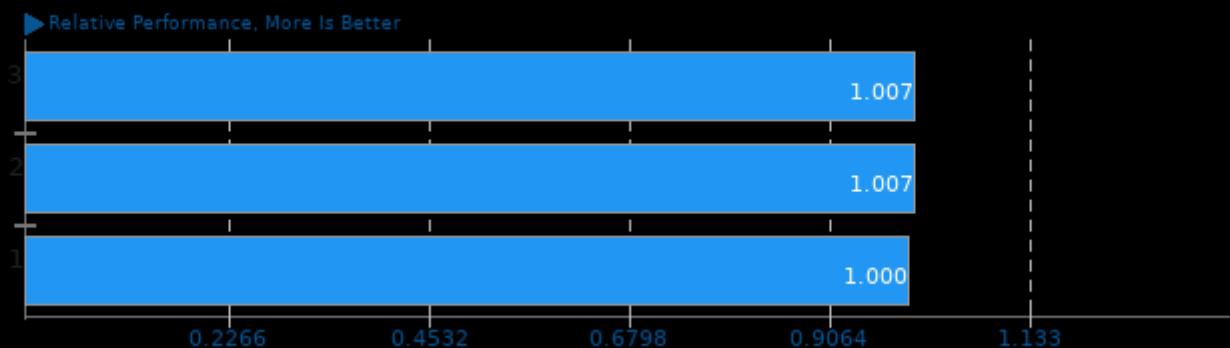
Result Composite - Core i7 10700T Garage



Geometric mean based upon tests: pts/onnx and pts/stream-dynamic

### Geometric Mean Of Scientific Computing Tests

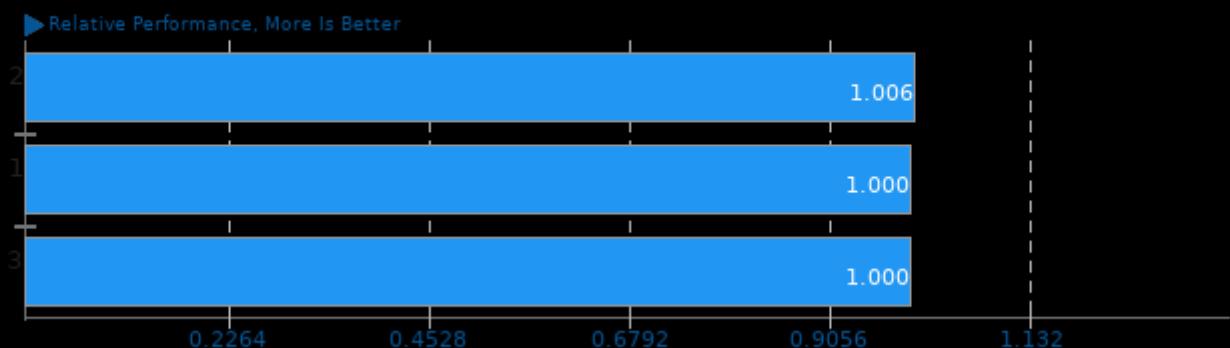
Result Composite - Core i7 10700T Garage



Geometric mean based upon tests: pts/hpcc, pts/openfoam and pts/qe

### Geometric Mean Of Server CPU Tests

Result Composite - Core i7 10700T Garage



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

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 09:07.*