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## 8086K April 2021

Intel Core i7-8086K testing with a ASUS PRIME Z370-A (1802 BIOS) and ASUS Intel UHD 630 CFL GT2 3GB on Ubuntu 20.04 via the Phoronix Test Suite.

### Automated Executive Summary

*1 had the most wins, coming in first place for 38% of the tests.*

*Based on the geometric mean of all complete results, the fastest (3) was 1.002x the speed of the slowest (1). 2 was 0.999x the speed of 3 and 1 was 1x the speed of 2.*

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

*srsLTE (Test: OFDM\_Test) at 1.083x*

*SHOC Scalable Heterogeneous Computing (Target: OpenCL - Benchmark: S3D) at 1.041x*

*GNU Radio (Test: Five Back to Back FIR Filters) at 1.038x*

*AOM AV1 (Encoder Mode: Speed 8 Realtime - Input: Bosphorus 1080p) at 1.035x*

*SHOC Scalable Heterogeneous Computing (Target: OpenCL - Benchmark: Triad) at 1.03x*

*Stockfish (Total Time) at 1.019x*

*Zstd Compression (Compression Level: 3 - Compression Speed) at 1.018x*

*Mobile Neural Network (Model: MobileNetV2\_224) at 1.017x*

*AOM AV1 (Encoder Mode: Speed 6 Realtime - Input: Bosphorus 1080p) at 1.017x*

ViennaCL (Test: OpenCL BLAS - dCOPY) at 1.017x.

## Test Systems:

1

2

3

Processor: Intel Core i7-8086K @ 5.00GHz (6 Cores / 12 Threads), Motherboard: ASUS PRIME Z370-A (1802 BIOS), Chipset: Intel 8th Gen Core, Memory: 8GB, Disk: 118GB INTEL SSDPEK1W120GA, Graphics: ASUS Intel UHD 630 CFL GT2 3GB (1200MHz), Audio: Realtek ALC1220, Monitor: G237HL, Network: Intel I219-V

OS: Ubuntu 20.04, Kernel: 5.9.0-050900rc8daily20201009-generic (x86\_64) 20201008, Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.8, OpenGL: 4.6 Mesa 20.0.8, OpenCL: OpenCL 2.1, Vulkan: 1.2.131, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise  
 Compiler Notes: --build=x86\_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEA/gcc-9-9.3.0/debian/tmp-nvptx/usr.hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86\_64-linux-gnu --program-prefix=x86\_64-linux-gnu- --target=x86\_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v  
 Processor Notes: Scaling Governor: intel\_pstate powersave - CPU Microcode: 0xd6 - ThermalD 1.9.1  
 Python Notes: Python 2.7.18 + Python 3.8.5

Security Notes: itlb\_multihit: KVM: Mitigation of VMX unsupported + l1tf: Mitigation of PTE Inversion + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + 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 Full generic retpoline IBPB: conditional IBRS\_FW STIBP: conditional RSB filling + srbs: Mitigation of Microcode + tsx\_async\_abort: Mitigation of Clear buffers; SMT vulnerable

	1	2	3
<b>SHOC Scalable Heterogeneous Computing - OpenCL - S3D (GFLOPS)</b>	<b>16.5503</b>	16.8198	<b>17.2298</b>
Normalized	96.06%	97.62%	100%
Standard Deviation	0.2%	0.1%	0.2%
<b>SHOC Scalable Heterogeneous Computing - OpenCL - Triad (GB/s)</b>	<b>12.9421</b>	<b>13.3263</b>	13.2721
Normalized	97.12%	100%	99.59%
Standard Deviation	2.5%	2.6%	2.3%
<b>SHOC Scalable Heterogeneous Computing - OpenCL - FFT SP (GFLOPS)</b>	<b>15.3879</b>	15.3731	<b>15.3631</b>
Normalized	100%	99.9%	99.84%
Standard Deviation	0.1%	0.1%	0.2%

<b>SHOC Scalable Heterogeneous Computing - OpenCL - MD5 Hash (GHash/s)</b>	0.3861	0.3861	0.3861
Standard Deviation	0%	0%	0%
<b>SHOC Scalable Heterogeneous Computing - OpenCL - Reduction (GB/s)</b>	<b>37.9925</b>	38.1117	<b>38.2552</b>
Normalized	99.31%	99.62%	100%
Standard Deviation	0.3%	0.2%	0.5%
<b>SHOC Scalable Heterogeneous Computing - OpenCL - GEMM SGEMM_N (GFLOPS)</b>	208.512	<b>208.294</b>	<b>208.729</b>
Normalized	99.9%	99.79%	100%
Standard Deviation	0.2%	0.3%	0.2%
<b>SHOC Scalable Heterogeneous Computing - OpenCL - Max SP Flops (GFLOPS)</b>	<b>1761</b>	1761	<b>1761</b>
Normalized	99.99%	100%	100%
Standard Deviation	0.1%	0.1%	0.1%
<b>SHOC Scalable Heterogeneous Computing - OpenCL - Bus Speed Download (GB/s)</b>	<b>28.8173</b>	29.0040	<b>29.0558</b>
Normalized	99.18%	99.82%	100%
Standard Deviation	0.5%	0.9%	0.8%
<b>SHOC Scalable Heterogeneous Computing - OpenCL - Bus Speed Readback (GB/s)</b>	28.9203	<b>28.7474</b>	<b>28.9621</b>
Normalized	99.86%	99.26%	100%
Standard Deviation	1.1%	0.4%	0.7%
<b>SHOC Scalable Heterogeneous Computing - OpenCL - T.R.B (GB/s)</b>	<b>56.9155</b>	<b>56.9238</b>	56.9159
Normalized	99.99%	100%	99.99%
Standard Deviation	0%	0%	0%
<b>Xcompact3d Incompact3d - i.i.1.C.P.D (sec)</b>	<b>42.1422094</b>	42.0944697	<b>41.7768224</b>
Normalized	99.13%	99.25%	100%
Standard Deviation	0%	0.3%	0%
<b>Xcompact3d Incompact3d - i.i.1.C.P.D (sec)</b>	<b>145.913788</b>	145.420537	<b>145.031260</b>
Normalized	99.4%	99.73%	100%
Standard Deviation	0.2%	0.2%	0%
<b>simdjson - Kostya (GB/s)</b>	<b>3.05</b>	<b>3.06</b>	<b>3.05</b>
Normalized	99.67%	100%	99.67%
Standard Deviation	0%	0.2%	0.2%
<b>simdjson - LargeRand (GB/s)</b>	1.12	1.12	1.12
Standard Deviation	0%	0%	0%
<b>simdjson - PartialTweets (GB/s)</b>	<b>4.41</b>	<b>4.41</b>	<b>4.42</b>
Normalized	99.77%	99.77%	100%
Standard Deviation	0.1%	0%	0.3%
<b>simdjson - DistinctUserID (GB/s)</b>	4.96	<b>4.95</b>	<b>4.97</b>
Normalized	99.8%	99.6%	100%
Standard Deviation	0%	0.2%	0.5%
<b>GNU GMP GMPbench - Total Time (GMPbench Score)</b>	<b>6262</b>	<b>6248</b>	6260
Normalized	100%	99.78%	99.96%
<b>Zstd Compression - 3 - Compression Speed (MB/s)</b>	<b>1999</b>	<b>1963</b>	1972
Normalized	100%	98.2%	98.62%
Standard Deviation	1%	1%	0.3%
<b>Zstd Compression - 3 - D.S (MB/s)</b>	<b>4201</b>	<b>4196</b>	4196
Normalized	100%	99.87%	99.89%
Standard Deviation	0.1%	0.1%	0%

Zstd Compression - 8 - Compression Speed (MB/s)	<b>259.5</b>	261.6	<b>262.3</b>
Normalized	98.93%	99.73%	100%
Standard Deviation	1%	0.9%	1.1%
Zstd Compression - 8 - D.S (MB/s)	<b>4325</b>	4337	<b>4341</b>
Normalized	99.64%	99.9%	100%
Standard Deviation	0%	0.1%	0.1%
Zstd Compression - 19 - Compression Speed (MB/s)	<b>27.4</b>	<b>27.6</b>	<b>27.6</b>
Normalized	99.28%	100%	100%
Standard Deviation	0.4%	0.6%	1%
Zstd Compression - 19 - D.S (MB/s)	<b>3949</b>	3955	<b>3972</b>
Normalized	99.42%	99.56%	100%
Standard Deviation	0.5%	0.5%	0.3%
Zstd Compression - 3, Long Mode - Compression Speed (MB/s)	<b>1049</b>	1052	<b>1054</b>
Normalized	99.53%	99.82%	100%
Standard Deviation	0.2%	0.8%	0.4%
Zstd Compression - 8, Long Mode - Compression Speed (MB/s)	273.2	<b>274.6</b>	<b>271.7</b>
Normalized	99.49%	100%	98.94%
Standard Deviation	0.4%	0.8%	0.6%
Zstd Compression - 8, Long Mode - D.S	4619	<b>4606</b>	<b>4619</b>
Normalized	99.98%	99.72%	100%
Standard Deviation	0.2%	0.3%	0.2%
Zstd Compression - 19, Long Mode - Compression Speed (MB/s)	<b>22.8</b>	<b>22.7</b>	<b>22.8</b>
Normalized	100%	99.56%	100%
Standard Deviation	0.7%	0.7%	0.3%
Zstd Compression - 19, Long Mode - D.S	3950	<b>3950</b>	<b>3953</b>
Normalized	99.93%	99.92%	100%
Standard Deviation	0.1%	0.2%	0.4%
srsLTE - OFDM_Test (Samples / Second)	<b>128766667</b>	<b>118900000</b>	128166667
Normalized	100%	92.34%	99.53%
Standard Deviation	0.5%	1.5%	1.4%
srsLTE - PHY_DL_Test (eNb Mb/s)	294.3	<b>293.5</b>	<b>296.1</b>
Normalized	99.39%	99.12%	100%
Standard Deviation	0.7%	0.2%	0.6%
srsLTE - PHY_DL_Test (UE Mb/s)	<b>113.8</b>	114.1	<b>114.6</b>
Normalized	99.3%	99.56%	100%
Standard Deviation	1.5%	0.4%	0.4%
Botan - KASUMI (MiB/s)	112.950	<b>112.931</b>	<b>112.960</b>
Normalized	99.99%	99.97%	100%
Standard Deviation	0.1%	0.1%	0%
Botan - KASUMI - Decrypt (MiB/s)	107.853	<b>107.848</b>	<b>107.889</b>
Normalized	99.97%	99.96%	100%
Standard Deviation	0.1%	0.1%	0%
Botan - AES-256 (MiB/s)	<b>4823</b>	4822	<b>4805</b>
Normalized	100%	99.99%	99.63%
Standard Deviation	0%	0%	0.6%
Botan - AES-256 - Decrypt (MiB/s)	<b>4815</b>	4814	<b>4814</b>
Normalized	100%	99.98%	99.98%
Standard Deviation	0%	0%	0%

<b>Botan - Twofish (MiB/s)</b>	<b>436.142</b>	<b>435.767</b>	435.957
Normalized	100%	99.91%	99.96%
Standard Deviation	0%	0.1%	0.1%
<b>Botan - Twofish - Decrypt (MiB/s)</b>	<b>437.458</b>	<b>437.033</b>	437.229
Normalized	100%	99.9%	99.95%
Standard Deviation	0%	0.1%	0.1%
<b>Botan - Blowfish (MiB/s)</b>	<b>543.336</b>	543.281	<b>542.918</b>
Normalized	100%	99.99%	99.92%
Standard Deviation	0%	0%	0.1%
<b>Botan - Blowfish - Decrypt (MiB/s)</b>	<b>539.034</b>	539.028	<b>538.674</b>
Normalized	100%	100%	99.93%
Standard Deviation	0%	0%	0.1%
<b>Botan - CAST-256 (MiB/s)</b>	<b>171.904</b>	171.923	<b>171.936</b>
Normalized	99.98%	99.99%	100%
Standard Deviation	0%	0%	0%
<b>Botan - CAST-256 - Decrypt (MiB/s)</b>	<b>172.059</b>	<b>172.081</b>	172.072
Normalized	99.99%	100%	99.99%
Standard Deviation	0%	0%	0%
<b>Botan - ChaCha20Poly1305 (MiB/s)</b>	<b>913.852</b>	913.680	<b>913.449</b>
Normalized	100%	99.98%	99.96%
Standard Deviation	0%	0%	0.1%
<b>Botan - ChaCha20Poly1305 - Decrypt (MiB/s)</b>	906.879	<b>907.080</b>	<b>905.750</b>
Normalized	99.98%	100%	99.85%
Standard Deviation	0.1%	0%	0.3%
<b>LuaRadio - F.B.t.B.F.F (MiB/s)</b>	1131	<b>1125</b>	<b>1139</b>
Normalized	99.23%	98.73%	100%
Standard Deviation	0.6%	1.3%	0.4%
<b>LuaRadio - F.D.F (MiB/s)</b>	<b>488.8</b>	<b>487.0</b>	488.3
Normalized	100%	99.63%	99.9%
Standard Deviation	0.4%	0.1%	1.1%
<b>LuaRadio - Hilbert Transform (MiB/s)</b>	<b>87.5</b>	<b>87.5</b>	<b>87.3</b>
Normalized	100%	100%	99.77%
Standard Deviation	0.4%	0.3%	0.1%
<b>LuaRadio - Complex Phase (MiB/s)</b>	<b>702.4</b>	708.6	<b>709.9</b>
Normalized	98.94%	99.82%	100%
Standard Deviation	2.3%	2.4%	2.2%
<b>GNU Radio - F.B.t.B.F.F (MiB/s)</b>	<b>1041</b>	1039	<b>1004</b>
Normalized	100%	99.81%	96.36%
Standard Deviation	2.9%	2.9%	1.8%
<b>GNU Radio - S.S.C (MiB/s)</b>	2950	<b>2938</b>	<b>2956</b>
Normalized	99.81%	99.39%	100%
Standard Deviation	0.4%	0.2%	0.4%
<b>GNU Radio - FIR Filter (MiB/s)</b>	804.9	<b>806.7</b>	<b>804.7</b>
Normalized	99.78%	100%	99.75%
Standard Deviation	0.5%	0.9%	0.2%
<b>GNU Radio - IIR Filter (MiB/s)</b>	<b>650.8</b>	652.3	<b>653.9</b>
Normalized	99.53%	99.76%	100%
Standard Deviation	0.3%	0.7%	0.3%
<b>GNU Radio - F.D.F (MiB/s)</b>	<b>820.9</b>	819.6	<b>818.4</b>
Normalized	100%	99.84%	99.7%
Standard Deviation	0.3%	0.6%	0.4%
<b>GNU Radio - Hilbert Transform (MiB/s)</b>	<b>609.8</b>	611.4	<b>615.3</b>
Normalized	99.11%	99.37%	100%
Standard Deviation	0.3%	0.8%	0.5%
<b>dav1d - Chimera 1080p (FPS)</b>	538.33	<b>535.72</b>	<b>543.89</b>

	Normalized	98.98%	98.5%	100%
	Standard Deviation	1.1%	0.5%	0.1%
<b>dav1d - Summer Nature 4K (FPS)</b>	<b>140.96</b>	<b>140.46</b>	<b>141.34</b>	
	Normalized	99.73%	99.38%	100%
	Standard Deviation	0.2%	0.1%	0.1%
<b>dav1d - S.N.1 (FPS)</b>	<b>496.82</b>	<b>495.08</b>	<b>499.55</b>	
	Normalized	99.45%	99.11%	100%
	Standard Deviation	0.2%	0.2%	0.1%
<b>dav1d - C.1.1.b (FPS)</b>	<b>126.32</b>	<b>126.30</b>	<b>126.43</b>	
	Normalized	99.91%	99.9%	100%
	Standard Deviation	0.1%	0.2%	0.1%
<b>AOM AV1 - Speed 0 Two-Pass - Bosphorus</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	
	<b>4K (FPS)</b>			
	Standard Deviation	0%	0%	0%
<b>AOM AV1 - Speed 4 Two-Pass - Bosphorus</b>	<b>2.78</b>	<b>2.79</b>	<b>2.79</b>	
	<b>4K (FPS)</b>			
	Normalized	99.64%	100%	100%
	Standard Deviation	0%	0.2%	0.2%
<b>AOM AV1 - Speed 6 Realtime - Bosphorus</b>	<b>10.59</b>	<b>10.59</b>	<b>10.61</b>	
	<b>4K (FPS)</b>			
	Normalized	99.81%	99.81%	100%
	Standard Deviation	0.2%	0.1%	0.2%
<b>AOM AV1 - Speed 6 Two-Pass - Bosphorus</b>	<b>5.19</b>	<b>5.19</b>	<b>5.17</b>	
	<b>4K (FPS)</b>			
	Normalized	100%	100%	99.61%
	Standard Deviation	0.2%	0.1%	0.4%
<b>AOM AV1 - Speed 8 Realtime - Bosphorus</b>	<b>30.29</b>	<b>30.28</b>	<b>30.53</b>	
	<b>4K (FPS)</b>			
	Normalized	99.21%	99.18%	100%
	Standard Deviation	0.8%	0.2%	0.3%
<b>AOM AV1 - Speed 9 Realtime - Bosphorus</b>	<b>39.41</b>	<b>39.29</b>	<b>39.07</b>	
	<b>4K (FPS)</b>			
	Normalized	100%	99.7%	99.14%
	Standard Deviation	0.2%	0.3%	1.1%
<b>AOM AV1 - Speed 0 Two-Pass - Bosphorus</b>	<b>0.32</b>	<b>0.32</b>	<b>0.32</b>	
	<b>1080p (FPS)</b>			
	Standard Deviation	0%	0%	0%
<b>AOM AV1 - Speed 4 Two-Pass - Bosphorus</b>	<b>5.77</b>	<b>5.77</b>	<b>5.75</b>	
	<b>1080p (FPS)</b>			
	Normalized	100%	100%	99.65%
	Standard Deviation	0.2%	0.3%	0.3%
<b>AOM AV1 - Speed 6 Realtime - Bosphorus</b>	<b>19.57</b>	<b>19.82</b>	<b>19.90</b>	
	<b>1080p (FPS)</b>			
	Normalized	98.34%	99.6%	100%
	Standard Deviation	0.6%	1.7%	2.2%
<b>AOM AV1 - Speed 6 Two-Pass - Bosphorus</b>	<b>16.23</b>	<b>16.22</b>	<b>16.20</b>	
	<b>1080p (FPS)</b>			
	Normalized	100%	99.94%	99.82%
	Standard Deviation	0.1%	0.2%	0.2%
<b>AOM AV1 - Speed 8 Realtime - Bosphorus</b>	<b>91.93</b>	<b>95.12</b>	<b>94.48</b>	
	<b>1080p (FPS)</b>			
	Normalized	96.65%	100%	99.33%
	Standard Deviation	5.5%	2.2%	1.3%

<b>AOM AV1 - Speed 9 Realtime - Bosphorus 1080p (FPS)</b>	112.02	<b>109.61</b>	<b>115.42</b>
Normalized	97.05%	94.97%	100%
Standard Deviation	5.5%	7.6%	0.9%
<b>SVT-HEVC - 1 - Bosphorus 1080p (FPS)</b>	<b>5.37</b>	<b>5.37</b>	<b>5.36</b>
Normalized	100%	100%	99.81%
Standard Deviation	0.2%	0.1%	0.1%
<b>SVT-HEVC - 7 - Bosphorus 1080p (FPS)</b>	81.89	<b>82.00</b>	<b>81.77</b>
Normalized	99.87%	100%	99.72%
Standard Deviation	0.1%	0.1%	0.4%
<b>SVT-HEVC - 10 - Bosphorus 1080p (FPS)</b>	<b>174.12</b>	174.25	<b>174.67</b>
Normalized	99.69%	99.76%	100%
Standard Deviation	0.3%	0.1%	0.2%
<b>SVT-VP9 - VMAF Optimized - Bosphorus 1080p (FPS)</b>	137.09	<b>136.84</b>	<b>137.18</b>
Normalized	99.93%	99.75%	100%
Standard Deviation	2.3%	1.8%	2%
<b>SVT-VP9 - P.S.O - Bosphorus 1080p (FPS)</b>	139.97	<b>139.70</b>	<b>140.34</b>
Normalized	99.74%	99.54%	100%
Standard Deviation	0.2%	0.1%	0.4%
<b>SVT-VP9 - V.Q.O - Bosphorus 1080p (FPS)</b>	<b>112.66</b>	<b>112.66</b>	<b>112.57</b>
Normalized	100%	100%	99.92%
Standard Deviation	0.2%	0.1%	0.1%
<b>Stockfish - Total Time (Nodes/s)</b>	<b>18688940</b>	<b>18340896</b>	18391426
Normalized	100%	98.14%	98.41%
Standard Deviation	1.4%	2.1%	1.3%
<b>libavif avifenc - 0 (sec)</b>	<b>85.012</b>	85.016	<b>85.111</b>
Normalized	100%	100%	99.88%
Standard Deviation	0.1%	0.1%	0.1%
<b>libavif avifenc - 2 (sec)</b>	<b>43.582</b>	43.615	<b>43.619</b>
Normalized	100%	99.92%	99.92%
Standard Deviation	0.5%	0.2%	0.6%
<b>libavif avifenc - 6 (sec)</b>	<b>15.292</b>	15.362	<b>15.364</b>
Normalized	100%	99.54%	99.53%
Standard Deviation	0.1%	0.2%	0.4%
<b>libavif avifenc - 10 (sec)</b>	<b>3.759</b>	<b>3.755</b>	3.756
Normalized	99.89%	100%	99.97%
Standard Deviation	0.1%	0.1%	0.8%
<b>libavif avifenc - 6, Lossless (sec)</b>	<b>81.467</b>	<b>81.702</b>	81.701
Normalized	100%	99.71%	99.71%
Standard Deviation	0.1%	0.4%	0.1%
<b>libavif avifenc - 10, Lossless (sec)</b>	6.576	<b>6.580</b>	<b>6.570</b>
Normalized	99.91%	99.85%	100%
Standard Deviation	0.6%	0.3%	0.2%
<b>Timed Linux Kernel Compilation - Time To Compile (sec)</b>	<b>124.943</b>	124.609	<b>124.573</b>
Normalized	99.7%	99.97%	100%
Standard Deviation	0.7%	0.8%	1.1%
<b>Timed Mesa Compilation - Time To Compile (sec)</b>	71.726	<b>71.822</b>	<b>71.527</b>
Normalized	99.72%	99.59%	100%
Standard Deviation	0%	0.1%	0.2%

Timed Node.js Compilation - Time To Compile (sec)	<b>622.592</b>	<b>620.854</b>	622.264
Normalized	99.72%	100%	99.77%
Standard Deviation	0.2%	0.1%	0.2%
oneDNN - IP Shapes 1D - f32 - CPU (ms)	<b>4.57240</b>	<b>4.57697</b>	4.57454
Normalized	100%	99.9%	99.95%
Standard Deviation	0.5%	0.1%	0.6%
oneDNN - IP Shapes 3D - f32 - CPU (ms)	<b>11.3603</b>	<b>11.2645</b>	11.2953
Normalized	99.16%	100%	99.73%
Standard Deviation	0.1%	0.2%	0.2%
oneDNN - IP Shapes 1D - u8s8f32 - CPU (ms)	2.13561	<b>2.13800</b>	<b>2.13531</b>
Normalized	99.99%	99.87%	100%
Standard Deviation	0.1%	0.1%	0.1%
oneDNN - IP Shapes 3D - u8s8f32 - CPU (ms)	2.18389	<b>2.18406</b>	<b>2.16831</b>
Normalized	99.29%	99.28%	100%
Standard Deviation	0.4%	0.6%	0.2%
oneDNN - C.B.S.A - f32 - CPU (ms)	<b>20.9999</b>	<b>20.9258</b>	20.9474
Normalized	99.65%	100%	99.9%
Standard Deviation	0.1%	0.2%	0%
oneDNN - D.B.s - f32 - CPU (ms)	10.3134	<b>10.3028</b>	<b>10.3361</b>
Normalized	99.9%	100%	99.68%
Standard Deviation	0.4%	0.1%	0.2%
oneDNN - D.B.s - f32 - CPU (ms)	<b>9.04512</b>	9.04511	<b>9.00833</b>
Normalized	99.59%	99.59%	100%
Standard Deviation	0.1%	0.1%	0.4%
oneDNN - C.B.S.A - u8s8f32 - CPU (ms)	<b>18.4558</b>	<b>18.2282</b>	18.3402
Normalized	98.77%	100%	99.39%
Standard Deviation	0.1%	0.2%	0%
oneDNN - D.B.s - u8s8f32 - CPU (ms)	2.76395	<b>2.76492</b>	<b>2.76324</b>
Normalized	99.97%	99.94%	100%
Standard Deviation	0.2%	0.2%	0.2%
oneDNN - D.B.s - u8s8f32 - CPU (ms)	5.60918	<b>5.60828</b>	<b>5.62799</b>
Normalized	99.98%	100%	99.65%
Standard Deviation	0.1%	0.1%	0.1%
oneDNN - R.N.N.T - f32 - CPU (ms)	<b>4042</b>	<b>4035</b>	4036
Normalized	99.82%	100%	99.97%
Standard Deviation	0%	0%	0%
oneDNN - R.N.N.I - f32 - CPU (ms)	<b>2266</b>	<b>2261</b>	2264
Normalized	99.77%	100%	99.87%
Standard Deviation	0.1%	0.1%	0.1%
oneDNN - R.N.N.T - u8s8f32 - CPU (ms)	<b>4047</b>	4042	<b>4035</b>
Normalized	99.7%	99.84%	100%
Standard Deviation	0.2%	0.2%	0%
oneDNN - R.N.N.I - u8s8f32 - CPU (ms)	<b>2269</b>	<b>2259</b>	2264
Normalized	99.55%	100%	99.78%
Standard Deviation	0.4%	0%	0%
oneDNN - M.M.B.S.T - f32 - CPU (ms)	<b>3.92482</b>	3.91036	<b>3.89628</b>
Normalized	99.27%	99.64%	100%
Standard Deviation	0.2%	0.3%	0.2%
oneDNN - R.N.N.T - bf16bf16bf16 - CPU (ms)	4036	<b>4039</b>	<b>4036</b>
Normalized	99.99%	99.91%	100%
Standard Deviation	0%	0.1%	0.1%
oneDNN - R.N.N.I - bf16bf16bf16 - CPU (ms)	<b>2267</b>	2266	<b>2264</b>
Normalized	99.85%	99.88%	100%
Standard Deviation	0.1%	0.3%	0.1%

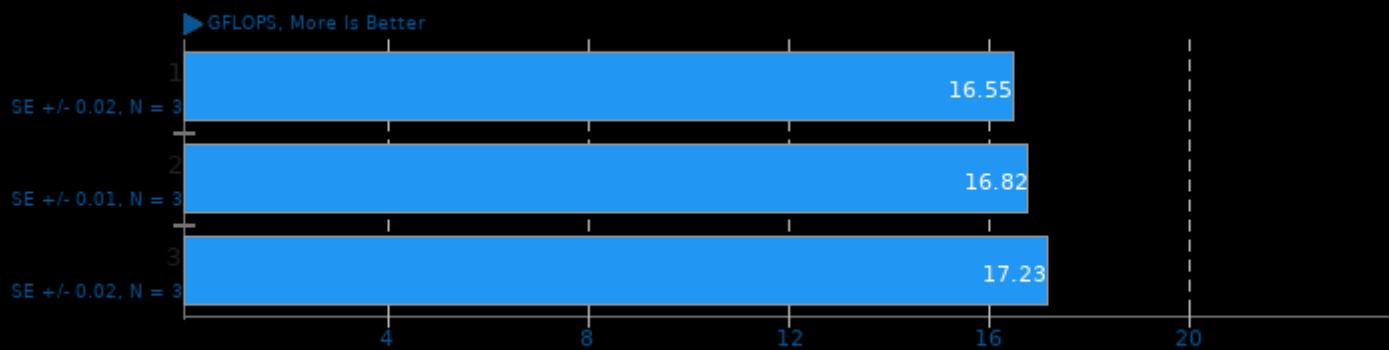
oneDNN - M.M.B.S.T - u8s8f32 - CPU (ms)	<b>3.36364</b>	<b>3.36364</b>	<b>3.36120</b>
Normalized	99.93%	99.93%	100%
Standard Deviation	0.1%	0.2%	0.1%
Timed Erlang/OTP Compilation - Time To	<b>122.393</b>	<b>122.520</b>	122.462
Compile (sec)			
Normalized	100%	99.9%	99.94%
Standard Deviation	0.2%	0.1%	0.3%
Liquid-DSP - 1 - 256 - 57 (samples/s)	<b>67547667</b>	<b>67558000</b>	67549667
Normalized	99.98%	100%	99.99%
Standard Deviation	0%		0%
Liquid-DSP - 2 - 256 - 57 (samples/s)	<b>131630000</b>	<b>131750000</b>	131643333
Normalized	99.91%	100%	99.92%
Standard Deviation	0.2%	0.2%	0.3%
Liquid-DSP - 4 - 256 - 57 (samples/s)	<b>224833333</b>	<b>224203333</b>	224660000
Normalized	100%	99.72%	99.92%
Standard Deviation	0.1%	0.3%	0.1%
Liquid-DSP - 8 - 256 - 57 (samples/s)	<b>346583333</b>	346413333	<b>346230000</b>
Normalized	100%	99.95%	99.9%
Standard Deviation	0.1%	0.1%	0.1%
Liquid-DSP - 12 - 256 - 57 (samples/s)	<b>385883333</b>	385890000	<b>386146667</b>
Normalized	99.93%	99.93%	100%
Standard Deviation	0.1%	0%	0%
ViennaCL - CPU BLAS - sCOPY (GB/s)	<b>21.3</b>	<b>21.3</b>	<b>21.4</b>
Normalized	99.53%	99.53%	100%
Standard Deviation	0%	0%	0.3%
ViennaCL - CPU BLAS - sAXPY (GB/s)	<b>33.8</b>	<b>33.8</b>	<b>33.9</b>
Normalized	99.71%	99.71%	100%
Standard Deviation	0.3%	0.3%	0%
ViennaCL - CPU BLAS - sDOT (GB/s)	<b>42.4</b>	<b>42.4</b>	<b>42.5</b>
Normalized	99.76%	99.76%	100%
Standard Deviation	0.2%	0.2%	0.1%
ViennaCL - CPU BLAS - dCOPY (GB/s)	20.1	20.1	20.1
Standard Deviation	0%	0%	0%
ViennaCL - CPU BLAS - dAXPY (GB/s)	30.9	30.9	30.9
Standard Deviation	0%	0%	0%
ViennaCL - CPU BLAS - dDOT (GB/s)	<b>38</b>	<b>38</b>	<b>37.9</b>
Normalized	100%	100%	99.74%
Standard Deviation			0%
ViennaCL - CPU BLAS - dGEMV-N (GB/s)	<b>45.2</b>	<b>45.1</b>	<b>45.1</b>
Normalized	100%	99.78%	99.78%
Standard Deviation	0.1%	0.1%	0.1%
ViennaCL - CPU BLAS - dGEMM-NN (GFLOPs/s)	23.4	23.4	23.4
Standard Deviation	0.2%	0.4%	0.2%
ViennaCL - CPU BLAS - dGEMM-NT (GFLOPs/s)	22.7	22.7	22.7
Standard Deviation	0.3%	0%	0%
ViennaCL - CPU BLAS - dGEMM-TN (GFLOPs/s)	<b>24.2</b>	<b>24.2</b>	<b>24.1</b>
Normalized	100%	100%	99.59%
Standard Deviation	0.2%	0.2%	0.5%
ViennaCL - CPU BLAS - dGEMM-TT (GFLOPs/s)	23.3	23.3	23.3
Standard Deviation	0%	0%	

ViennaCL - CPU BLAS - dGEMV-T (GB/s)	45.1	45.1	45.1
Standard Deviation	0%		
ViennaCL - OpenCL BLAS - sCOPY (GB/s)	<b>25.4</b>	<b>25.5</b>	<b>25.4</b>
Normalized	99.61%	100%	99.61%
Standard Deviation	0.8%	1.6%	1.4%
ViennaCL - OpenCL BLAS - sAXPY (GB/s)	<b>28.4</b>	<b>28.7</b>	28.6
Normalized	98.95%	100%	99.65%
Standard Deviation	0%	0%	0%
ViennaCL - OpenCL BLAS - sDOT (GB/s)	<b>33.6</b>	<b>33.3</b>	33.4
Normalized	100%	99.11%	99.4%
Standard Deviation	0.3%	0.2%	0.3%
ViennaCL - OpenCL BLAS - dCOPY (GB/s)	<b>23.9</b>	<b>24.3</b>	24.0
Normalized	98.35%	100%	98.77%
Standard Deviation	0.2%	0.4%	0.2%
ViennaCL - OpenCL BLAS - dAXPY (GB/s)	<b>29.3</b>	<b>29.5</b>	29.4
Normalized	99.32%	100%	99.66%
Standard Deviation	0%	0%	0%
ViennaCL - OpenCL BLAS - dDOT (GB/s)	<b>38.6</b>	<b>38.2</b>	38.5
Normalized	100%	98.96%	99.74%
Standard Deviation	0.4%	0.7%	0.6%
ViennaCL - OpenCL BLAS - dGEMV-N (GB/s)	<b>39.5</b>	<b>39.7</b>	39.6
Normalized	99.5%	100%	99.75%
Standard Deviation	0.1%	0%	0%
ViennaCL - OpenCL BLAS - dGEMV-T (GB/s)	<b>35.4</b>	<b>35.5</b>	<b>35.5</b>
Normalized	99.72%	100%	100%
Standard Deviation	0%	0%	0.2%
ViennaCL - OpenCL BLAS - dGEMM-NN (GFLOPs/s)	18.9	18.9	18.9
Standard Deviation	0%	0.3%	0%
ViennaCL - OpenCL BLAS - dGEMM-NT (GFLOPs/s)	16.5	16.5	16.5
Standard Deviation	0%	0.4%	0%
ViennaCL - OpenCL BLAS - dGEMM-TN (GFLOPs/s)	15.8	15.8	15.8
Standard Deviation	0%	0%	0%
ViennaCL - OpenCL BLAS - dGEMM-TT (GFLOPs/s)	15.7	15.7	15.7
Standard Deviation	0%	0%	0%
ASTC Encoder - Medium (sec)	<b>6.2802</b>	<b>6.2954</b>	6.2906
Normalized	100%	99.76%	99.83%
Standard Deviation	0.3%	0.2%	0.1%
ASTC Encoder - Thorough (sec)	<b>19.1833</b>	<b>19.1705</b>	19.1808
Normalized	99.93%	100%	99.95%
Standard Deviation	0.1%	0%	0%
ASTC Encoder - Exhaustive (sec)	146.9984	<b>146.9137</b>	<b>147.0423</b>
Normalized	99.94%	100%	99.91%
Standard Deviation	0%	0%	0%
Basis Universal - ETC1S (sec)	<b>25.958</b>	25.986	<b>26.009</b>
Normalized	100%	99.89%	99.8%
Standard Deviation	0.4%	0.2%	0.2%
Basis Universal - UASTC Level 0 (sec)	<b>7.970</b>	<b>7.957</b>	7.966
Normalized	99.84%	100%	99.89%
Standard Deviation	0.1%	0.1%	0.1%
Basis Universal - UASTC Level 2 (sec)	<b>43.478</b>	<b>43.437</b>	43.447

	Normalized	99.91%	100%	99.98%
	Standard Deviation	0.1%	0%	0%
<b>Basis Universal - UASTC Level 3 (sec)</b>	<b>84.152</b>	<b>84.128</b>		84.142
	Normalized	99.97%	100%	99.98%
	Standard Deviation	0%	0%	0%
<b>OpenSCAD - Pistol (sec)</b>	<b>99.771</b>		99.755	<b>99.732</b>
	Normalized	99.96%	99.98%	100%
	Standard Deviation	0.1%	0.2%	0.1%
<b>OpenSCAD - Retro Car (sec)</b>	<b>17.118</b>	<b>17.125</b>		17.119
	Normalized	100%	99.96%	99.99%
	Standard Deviation	0.3%	0.3%	0.1%
<b>OpenSCAD - Mini-ITX Case (sec)</b>	41.616	<b>41.580</b>	<b>41.732</b>	
	Normalized	99.91%	100%	99.64%
	Standard Deviation	0.1%	0.2%	0.5%
<b>OpenSCAD - P.M.S (sec)</b>	<b>92.264</b>	<b>91.433</b>		91.550
	Normalized	99.1%	100%	99.87%
	Standard Deviation	0.4%	0.5%	0.6%
<b>OpenSCAD - L.P.C.S (sec)</b>	16.819	<b>16.849</b>	<b>16.792</b>	
	Normalized	99.84%	99.66%	100%
	Standard Deviation	0%	0.2%	0.3%
<b>Mobile Neural Network - SqueezeNetV1.0</b>	<b>5.755</b>	5.752	<b>5.721</b>	
	Normalized	99.41%	99.46%	100%
	Standard Deviation	0.5%	0.4%	0.3%
<b>Mobile Neural Network - resnet-v2-50 (ms)</b>	<b>38.004</b>	37.963	<b>37.788</b>	
	Normalized	99.43%	99.54%	100%
	Standard Deviation	0.6%	0.3%	0.2%
<b>Mobile Neural Network - MobileNetV2_224</b>	<b>3.235</b>	<b>3.181</b>		3.214
	Normalized	98.33%	100%	98.97%
	Standard Deviation	0.6%	0.3%	1.9%
<b>Mobile Neural Network - mobilenet-v1-1.0</b>	<b>3.856</b>	3.852	<b>3.838</b>	
	Normalized	99.53%	99.64%	100%
	Standard Deviation	0.7%	0.6%	0.4%
<b>Mobile Neural Network - inception-v3 (ms)</b>	<b>42.152</b>	41.944	<b>41.876</b>	
	Normalized	99.35%	99.84%	100%
	Standard Deviation	0.4%	0.2%	0.2%
<b>Sysbench - RAM / Memory (MiB/sec)</b>	<b>22848</b>	<b>22591</b>		22802
	Normalized	100%	98.87%	99.8%
	Standard Deviation	0.4%	1.6%	0.8%
<b>Sysbench - CPU (Events/sec)</b>	<b>13704</b>	<b>13706</b>		13706
	Normalized	99.98%	100%	100%
	Standard Deviation	0%	0%	0%
<b>Systemd Total Boot Time - Total (ms)</b>	24050	24050		24050
<b>Systemd Total Boot Time - Kernel (ms)</b>	1663	1663		1663
<b>Systemd Total Boot Time - Loader (ms)</b>	3393	3393		3393
<b>Systemd Total Boot Time - Firmware (ms)</b>	18722	18722		18722
<b>Systemd Total Boot Time - Userspace (ms)</b>	22387	22387		22387

## SHOC Scalable Heterogeneous Computing 2020-04-17

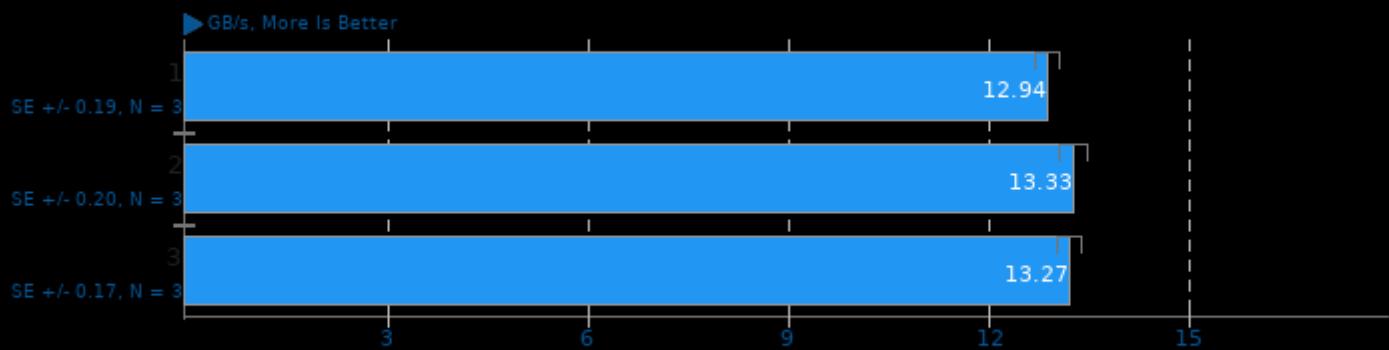
Target: OpenCL - Benchmark: S3D



1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi\_cxx -lmpi

## SHOC Scalable Heterogeneous Computing 2020-04-17

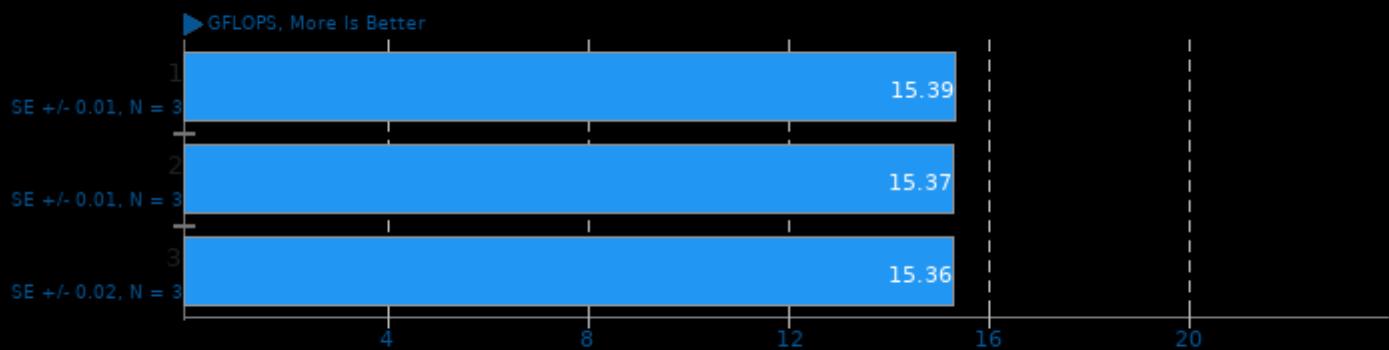
Target: OpenCL - Benchmark: Triad



1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi\_cxx -lmpi

## SHOC Scalable Heterogeneous Computing 2020-04-17

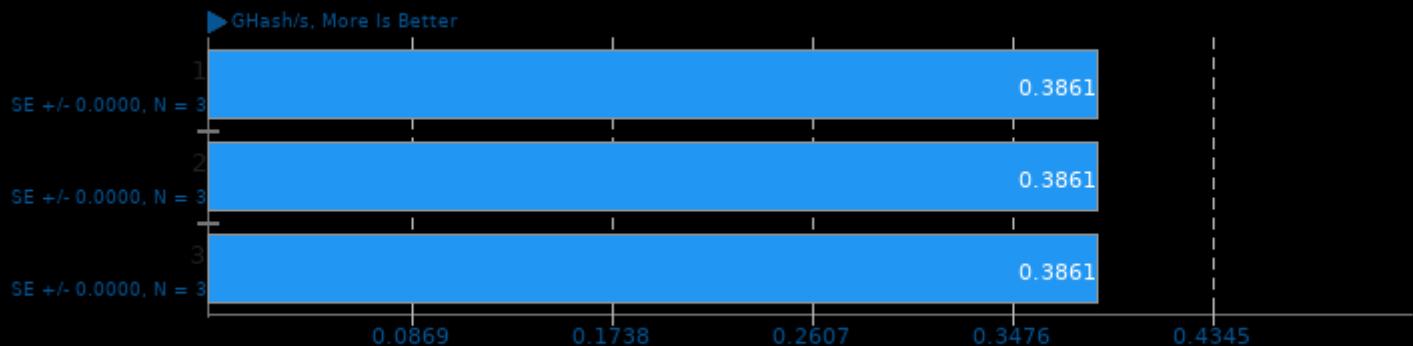
Target: OpenCL - Benchmark: FFT SP



1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi\_cxx -lmpi

## SHOC Scalable Heterogeneous Computing 2020-04-17

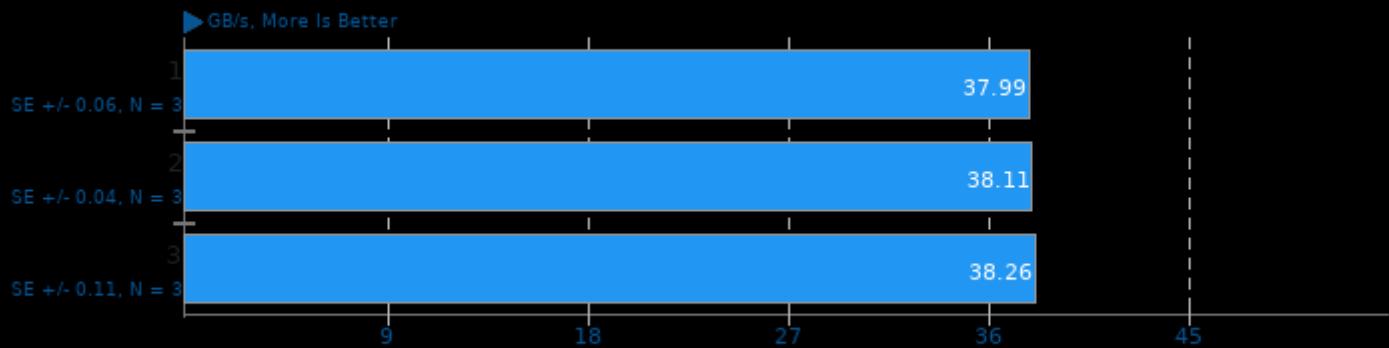
Target: OpenCL - Benchmark: MD5 Hash



1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi\_cxx -lmpi

## SHOC Scalable Heterogeneous Computing 2020-04-17

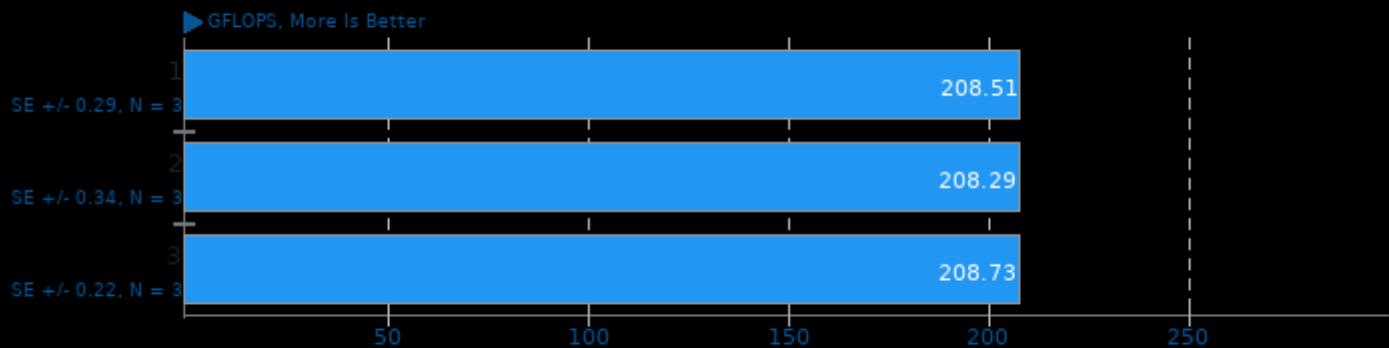
Target: OpenCL - Benchmark: Reduction



1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi\_cxx -lmpi

## SHOC Scalable Heterogeneous Computing 2020-04-17

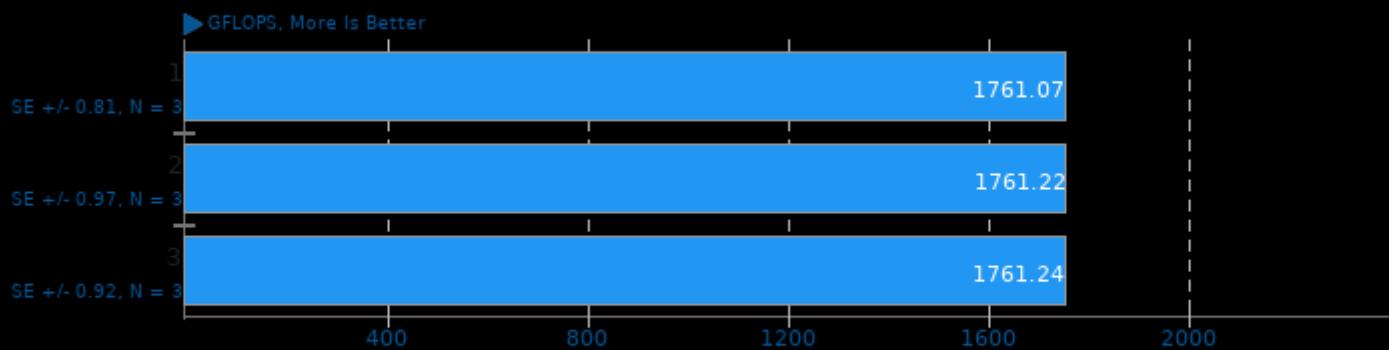
Target: OpenCL - Benchmark: GEMM SGEMM\_N



1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi\_cxx -lmpi

## SHOC Scalable Heterogeneous Computing 2020-04-17

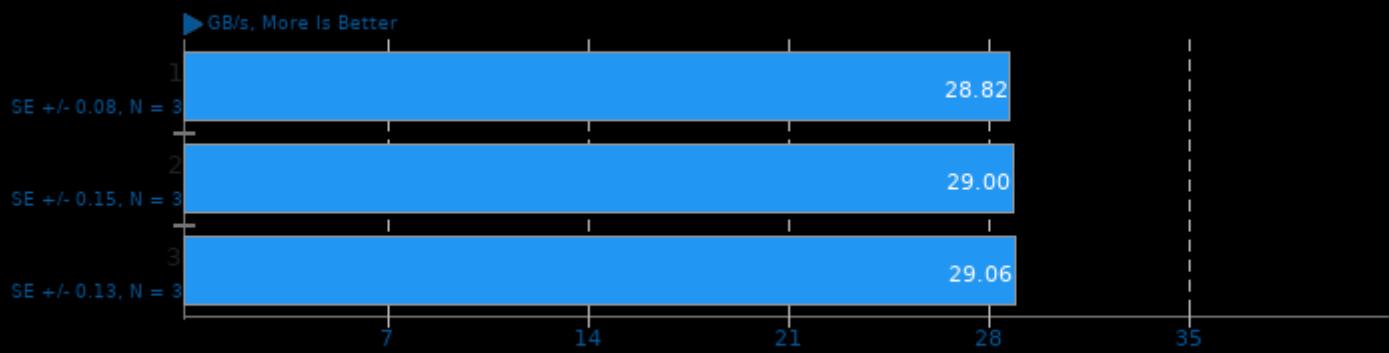
Target: OpenCL - Benchmark: Max SP Flops



1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi\_cxx -lmpi

## SHOC Scalable Heterogeneous Computing 2020-04-17

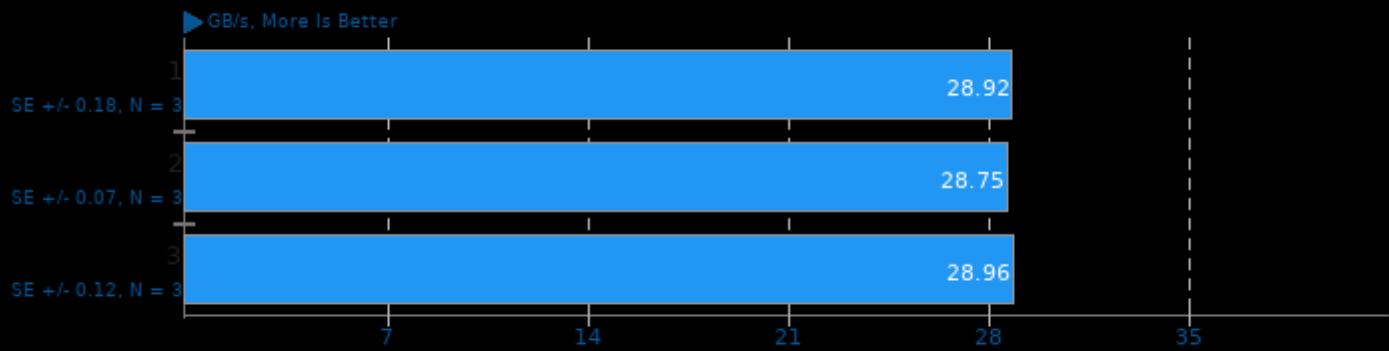
Target: OpenCL - Benchmark: Bus Speed Download



1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi\_cxx -lmpi

## SHOC Scalable Heterogeneous Computing 2020-04-17

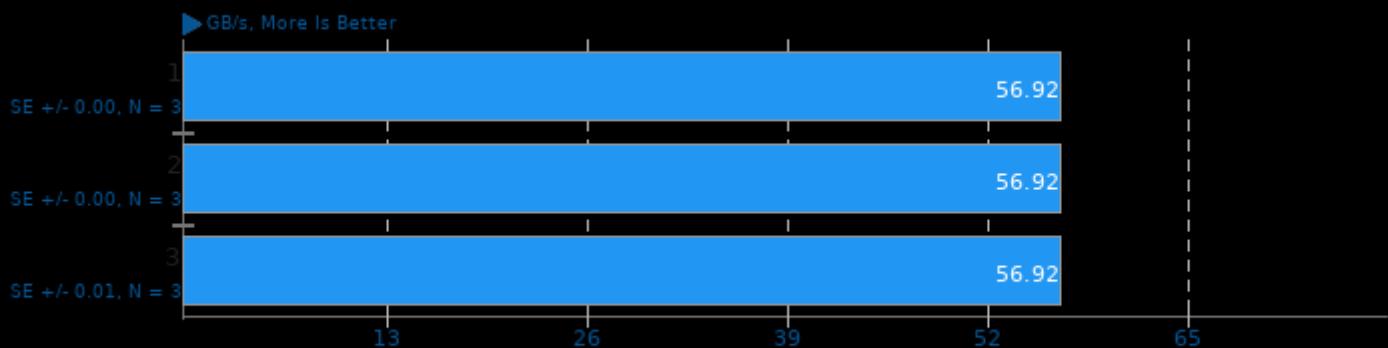
Target: OpenCL - Benchmark: Bus Speed Readback



1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi\_cxx -lmpi

## SHOC Scalable Heterogeneous Computing 2020-04-17

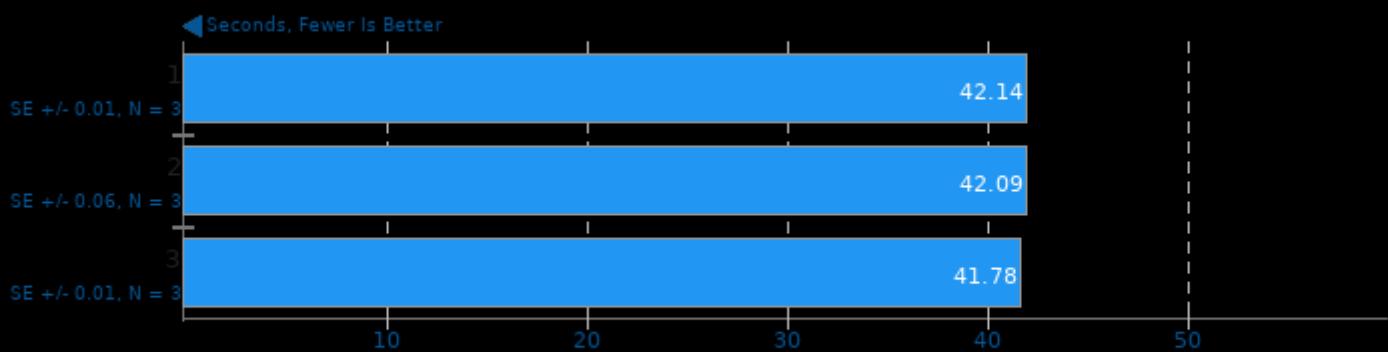
Target: OpenCL - Benchmark: Texture Read Bandwidth



1. (CXX) g++ options: -O2 -fSHOCCommonMPI -fSHOCCommonOpenCL -fSHOCCommon -fOpenCL -frt -fthread -fmpi\_cxx -fmpi

## Xcompact3d Incompact3d 2021-03-11

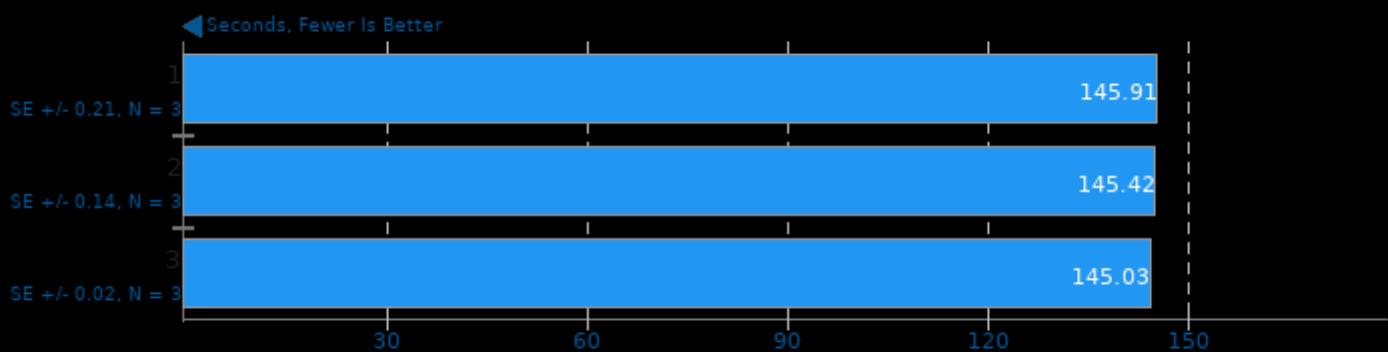
Input: input.i3d 129 Cells Per Direction



1. (F9X) gfortran options: -cpp -O2 -funroll-loops -floop-optimize -fcray-pointer -fbacktrace -fthread -fmpi\_usempif08 -fmpi\_mpifh -fmpi

## Xcompact3d Incompact3d 2021-03-11

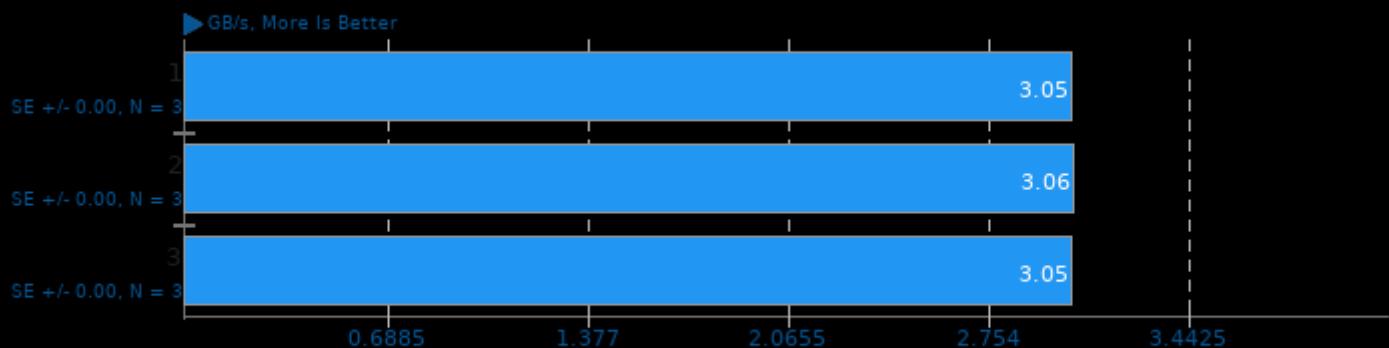
Input: input.i3d 193 Cells Per Direction



1. (F9X) gfortran options: -cpp -O2 -funroll-loops -floop-optimize -fcray-pointer -fbacktrace -fthread -fmpi\_usempif08 -fmpi\_mpifh -fmpi

## simdjson 0.8.2

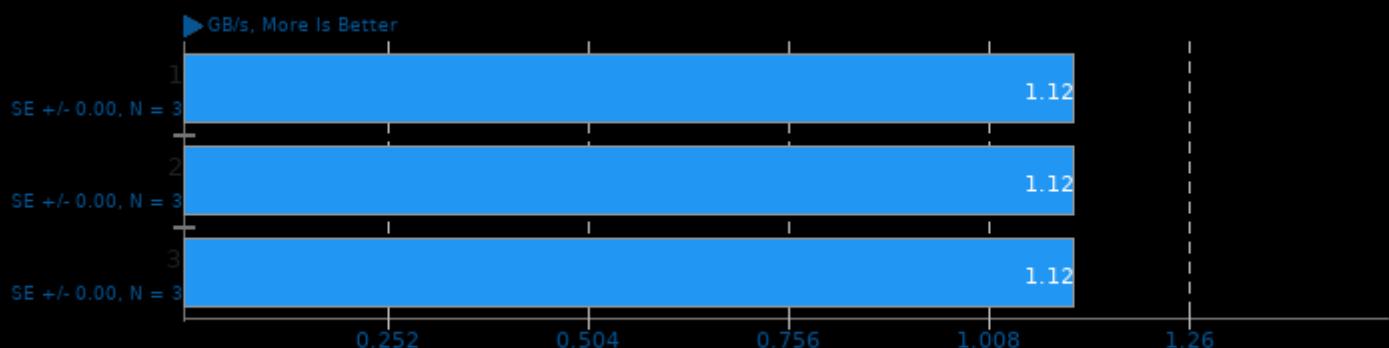
Throughput Test: Kostya



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

## simdjson 0.8.2

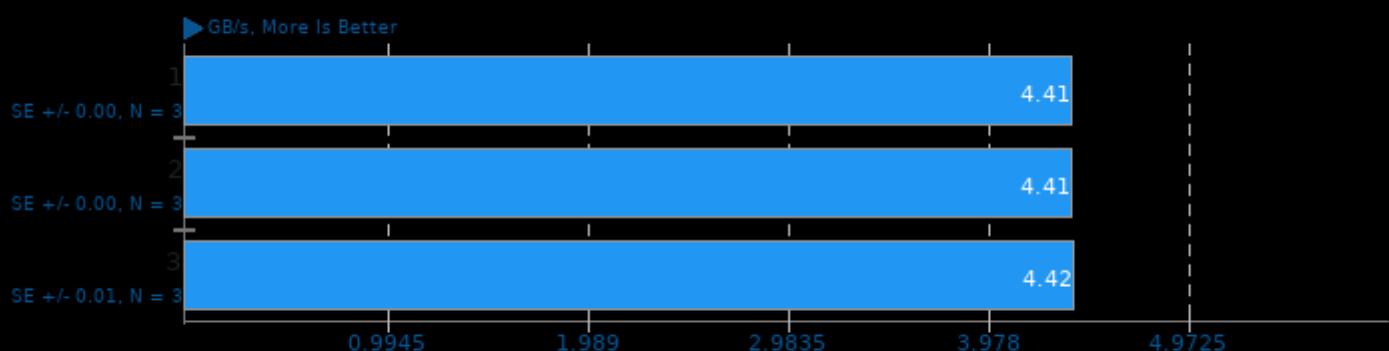
Throughput Test: LargeRandom



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

## simdjson 0.8.2

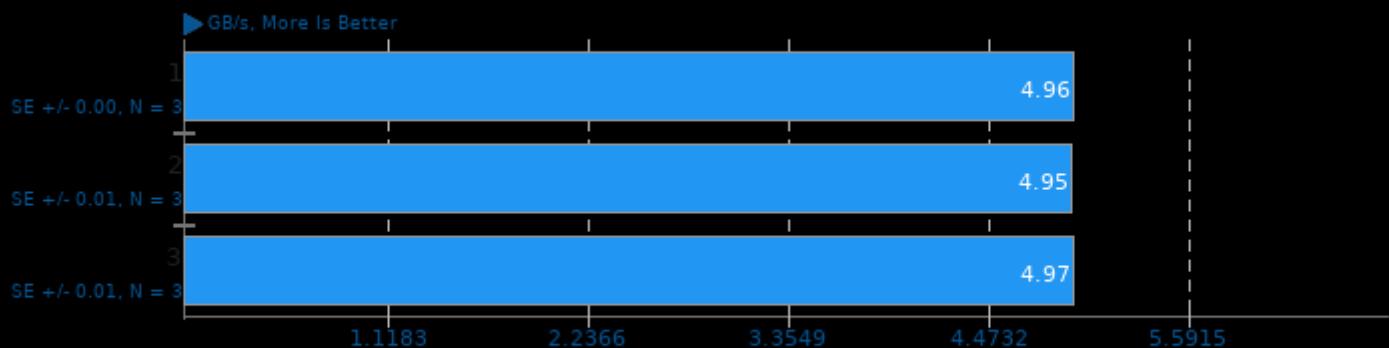
Throughput Test: PartialTweets



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

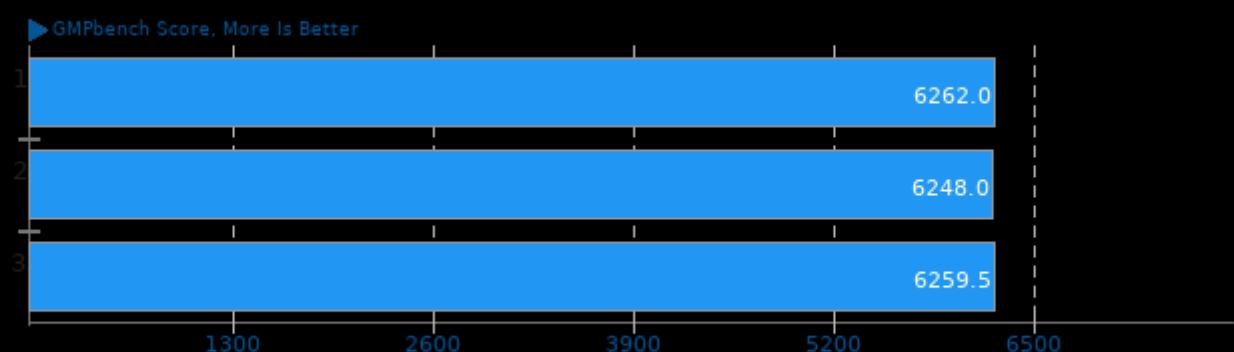
## simdjson 0.8.2

Throughput Test: DistinctUserID



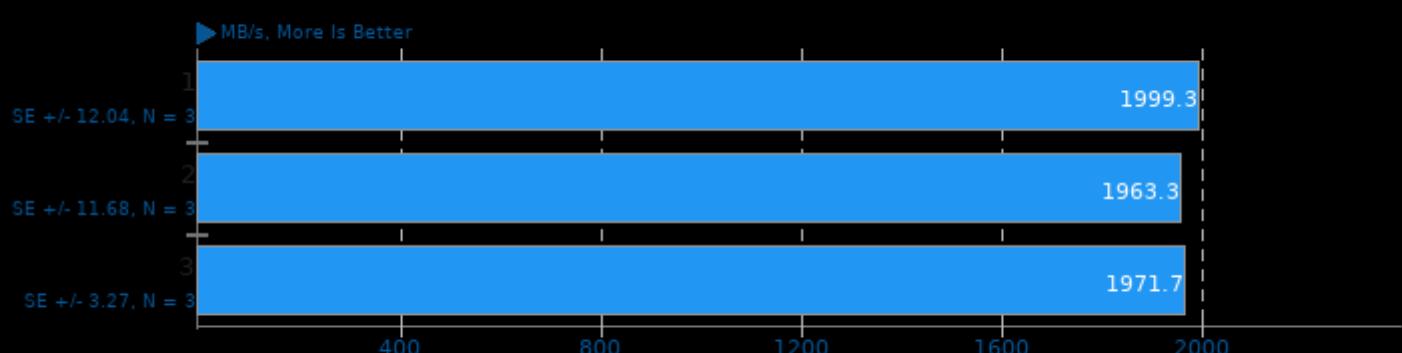
## GNU GMP GMPbench 6.2.1

Total Time



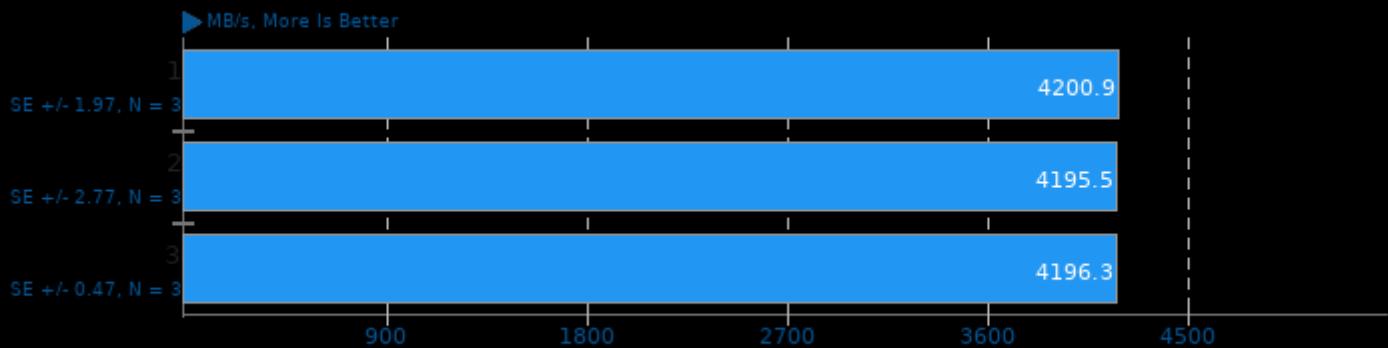
## Zstd Compression 1.4.9

Compression Level: 3 - Compression Speed



## Zstd Compression 1.4.9

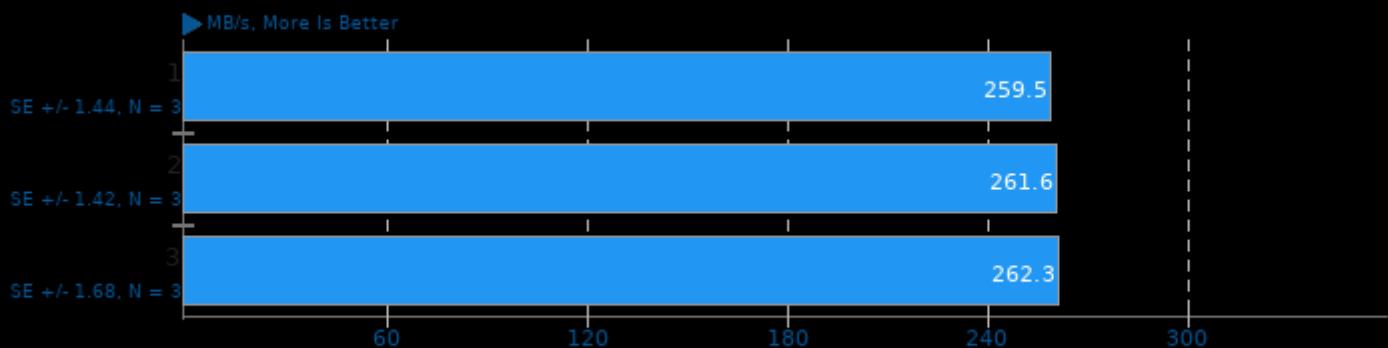
Compression Level: 3 - Decompression Speed



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

## Zstd Compression 1.4.9

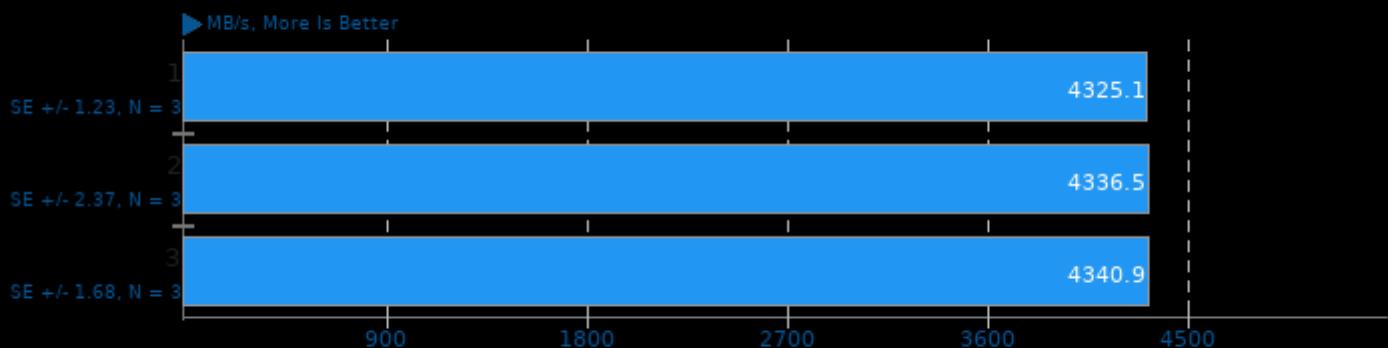
Compression Level: 8 - Compression Speed



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

## Zstd Compression 1.4.9

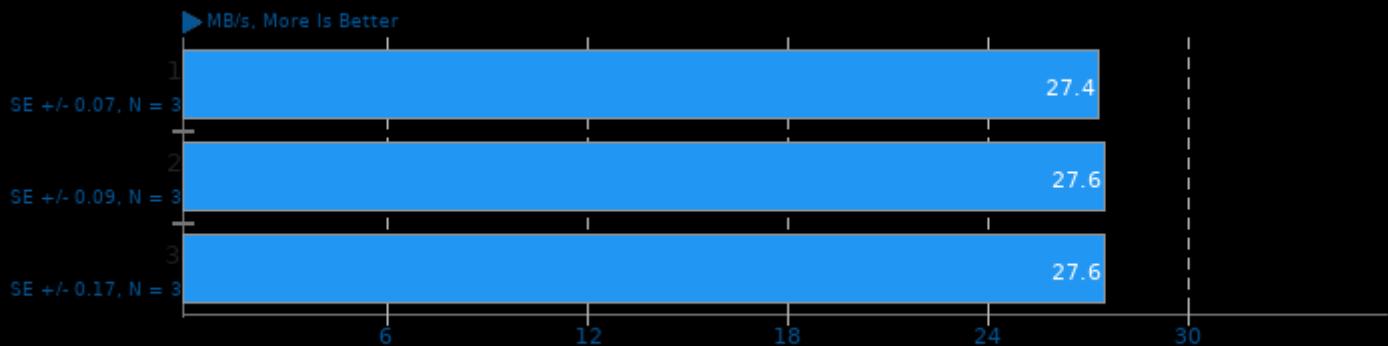
Compression Level: 8 - Decompression Speed



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

## Zstd Compression 1.4.9

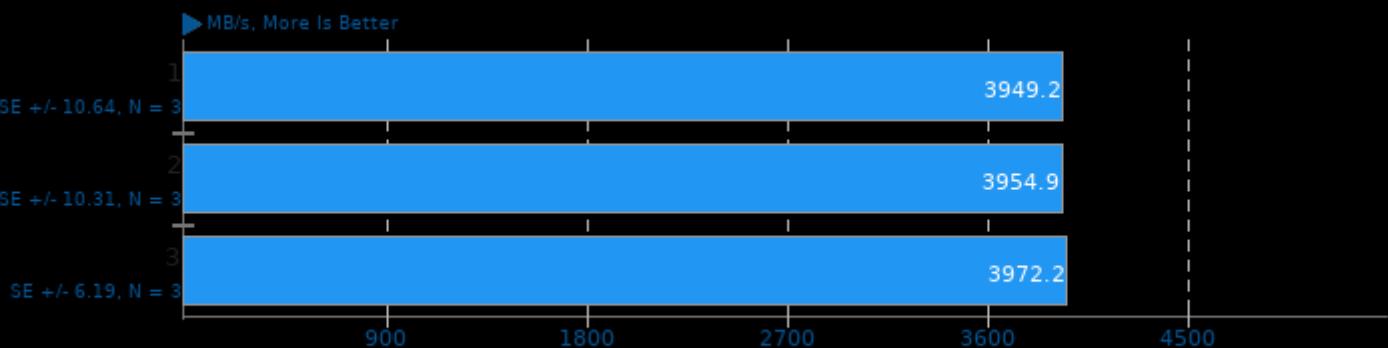
Compression Level: 19 - Compression Speed



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

## Zstd Compression 1.4.9

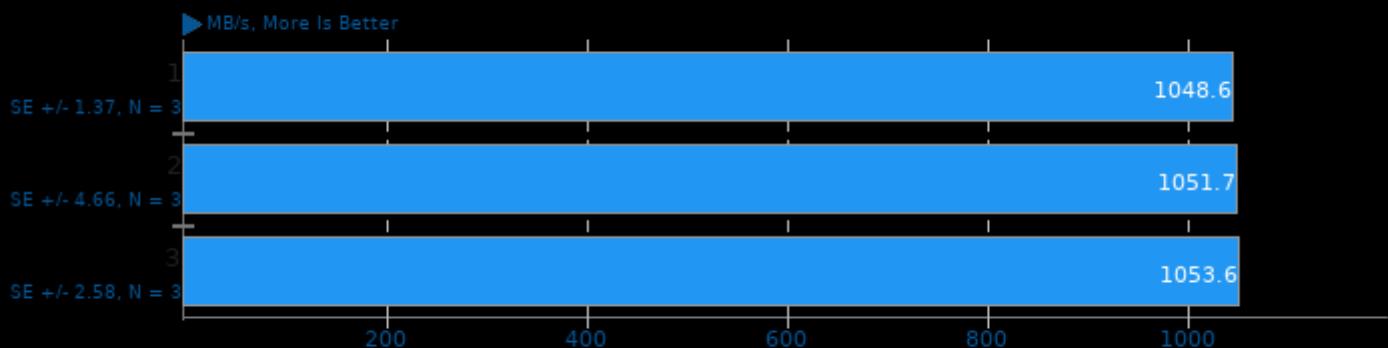
Compression Level: 19 - Decompression Speed



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

## Zstd Compression 1.4.9

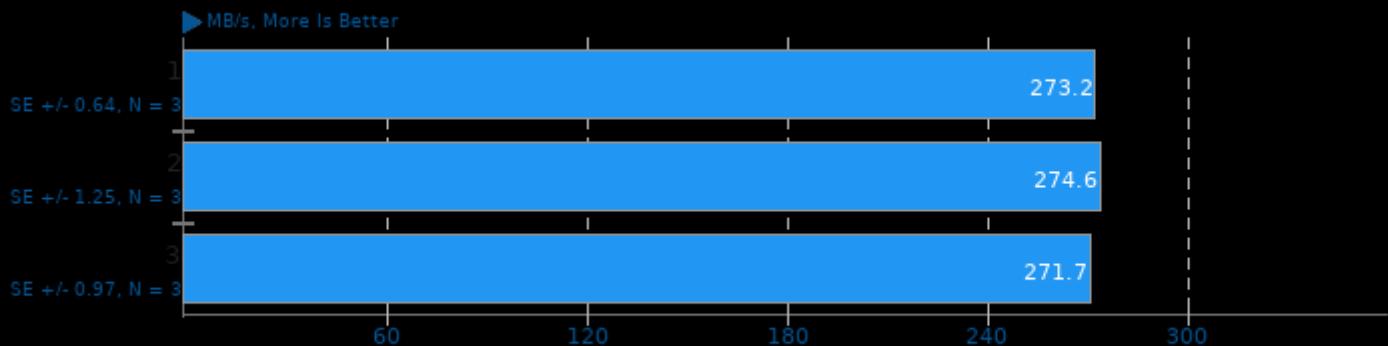
Compression Level: 3, Long Mode - Compression Speed



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

## Zstd Compression 1.4.9

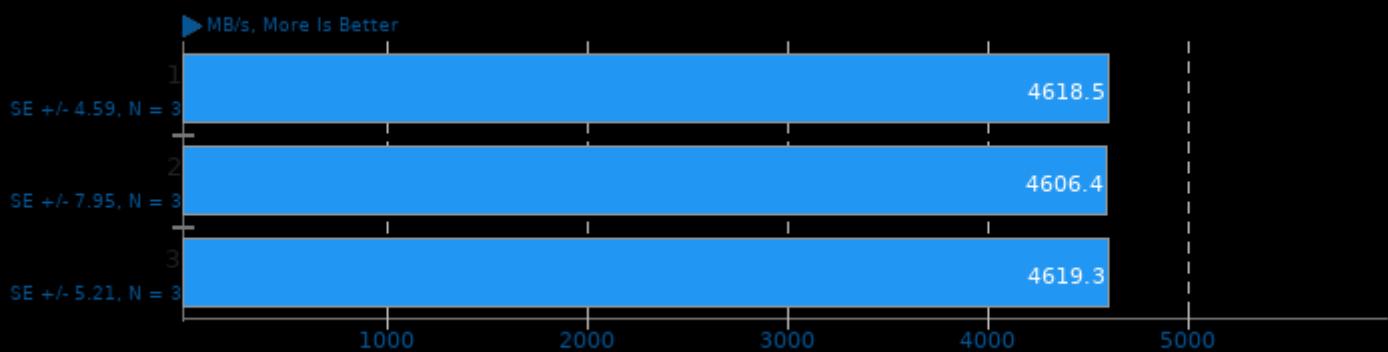
Compression Level: 8, Long Mode - Compression Speed



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

## Zstd Compression 1.4.9

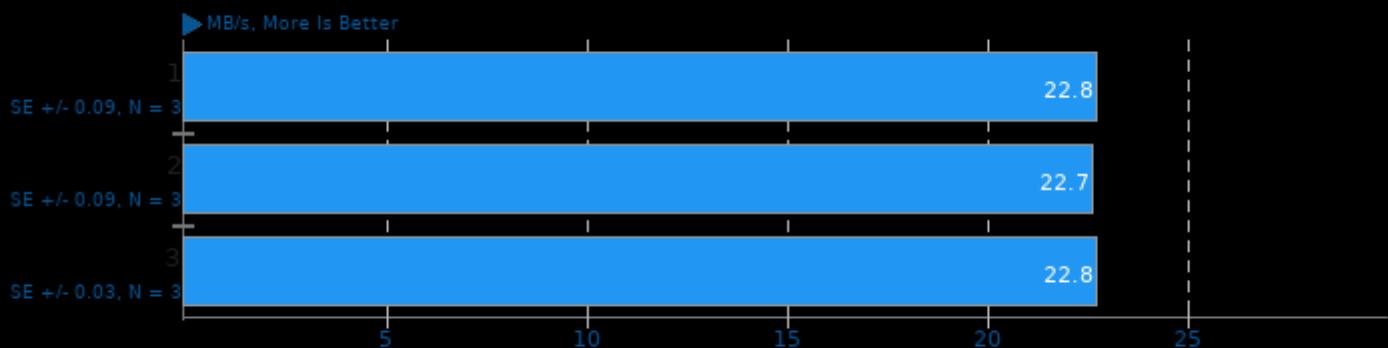
Compression Level: 8, Long Mode - Decompression Speed



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

## Zstd Compression 1.4.9

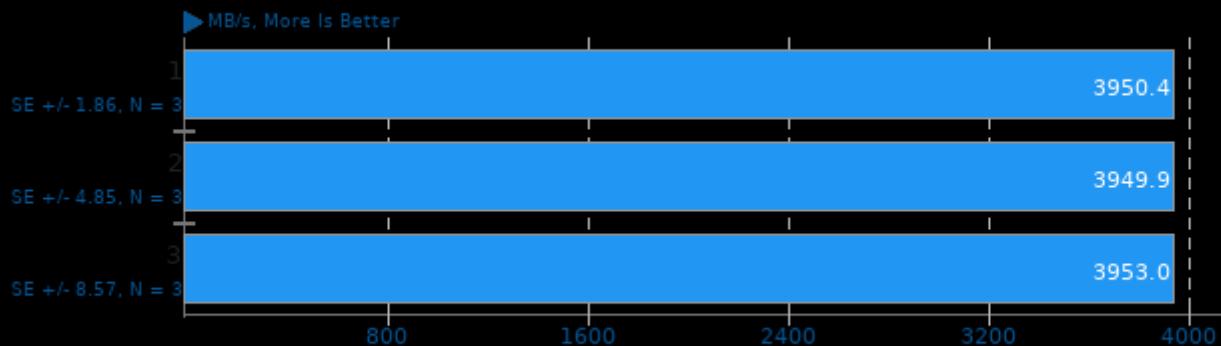
Compression Level: 19, Long Mode - Compression Speed



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

## Zstd Compression 1.4.9

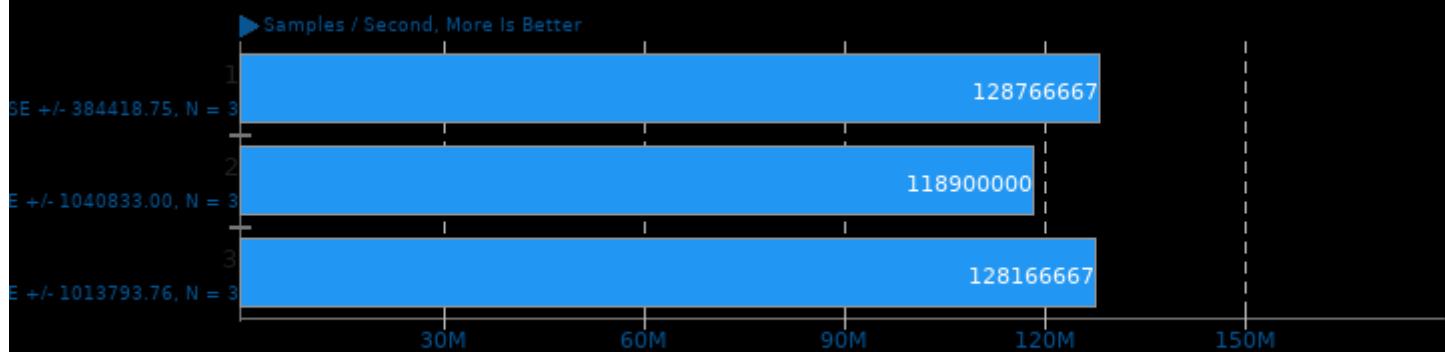
Compression Level: 19, Long Mode - Decompression Speed



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

## srsLTE 20.10.1

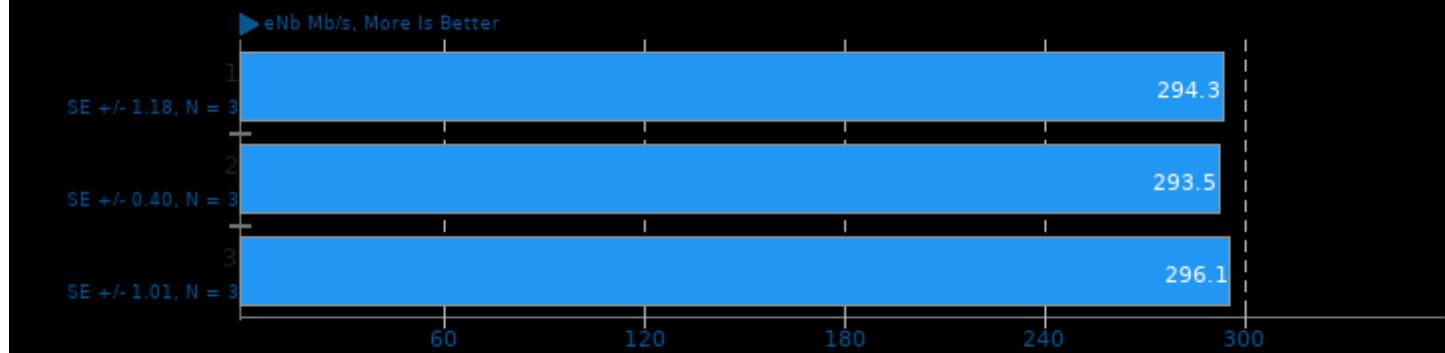
Test: OFDM\_Test



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

## srsLTE 20.10.1

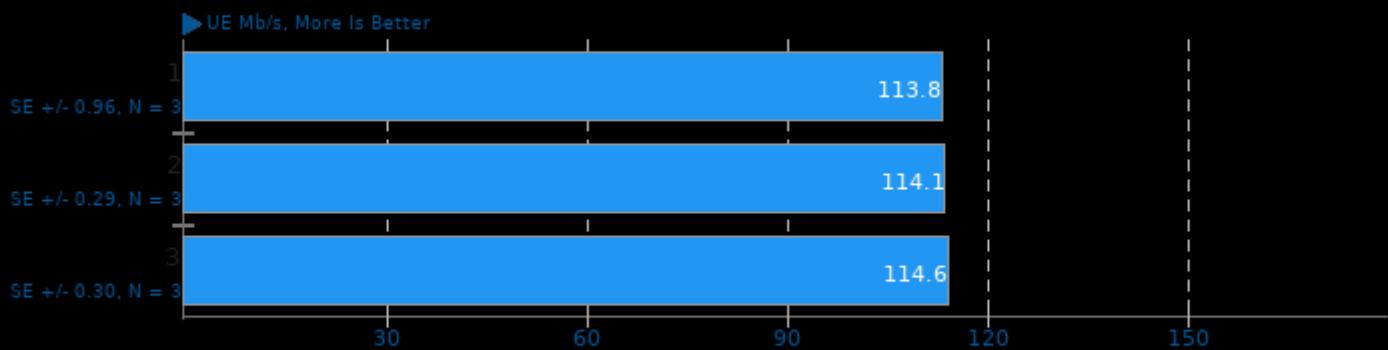
Test: PHY\_DL\_Test



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

## srsLTE 20.10.1

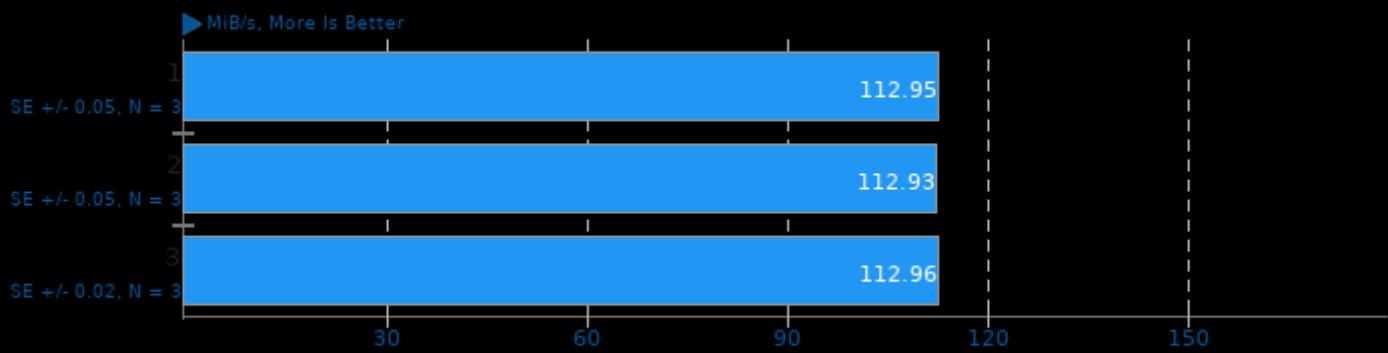
Test: PHY\_DL\_Test



```
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
```

## Botan 2.17.3

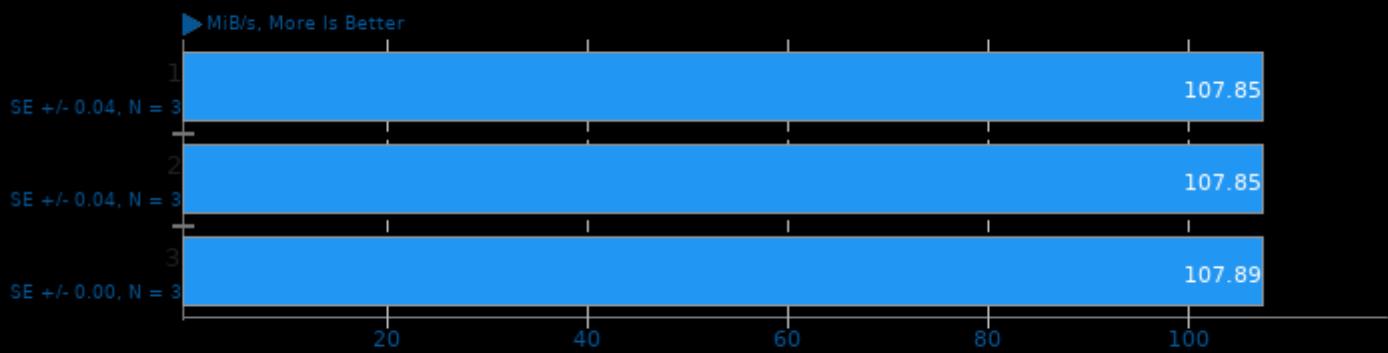
Test: KASUMI



```
1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt
```

## Botan 2.17.3

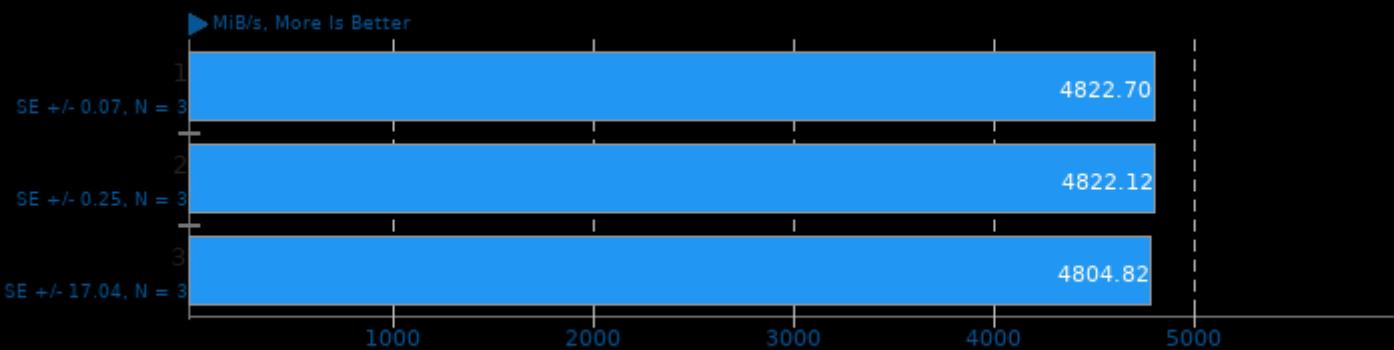
Test: KASUMI - Decrypt



```
1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt
```

## Botan 2.17.3

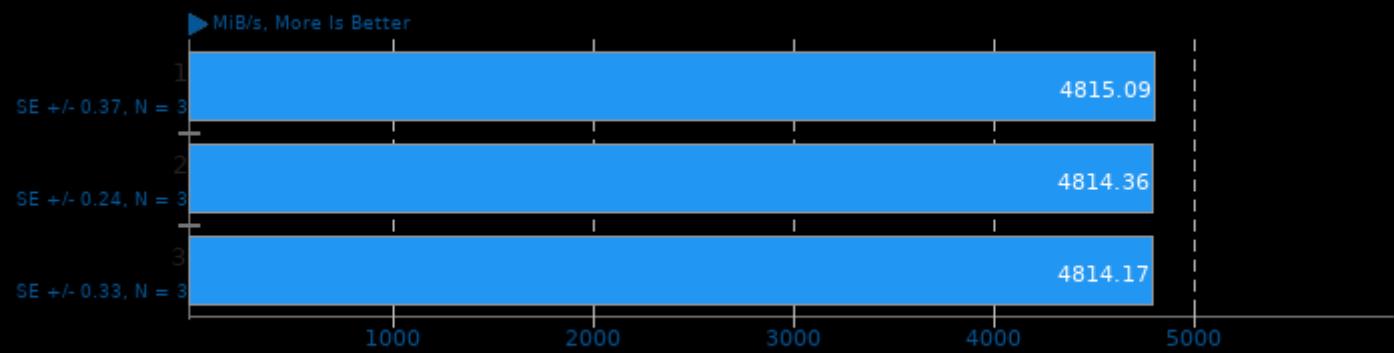
Test: AES-256



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

## Botan 2.17.3

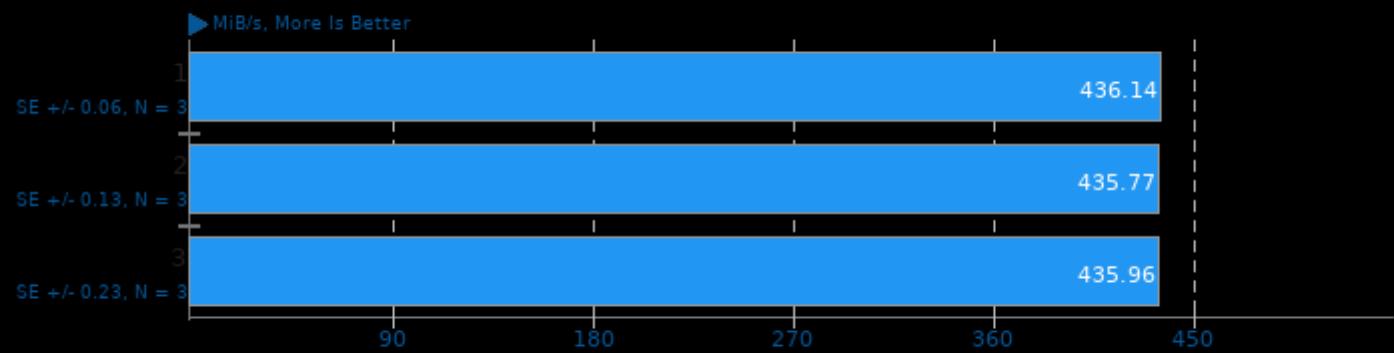
Test: AES-256 - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

## Botan 2.17.3

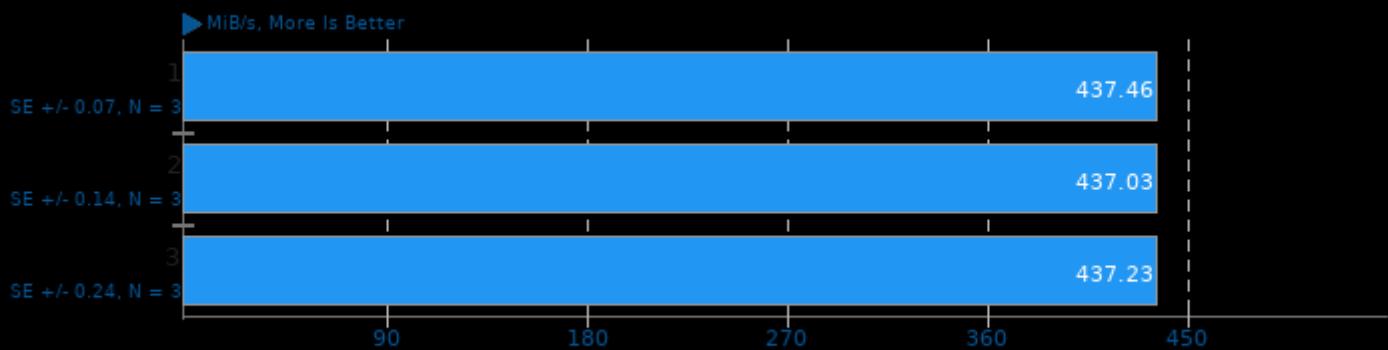
Test: Twofish



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

## Botan 2.17.3

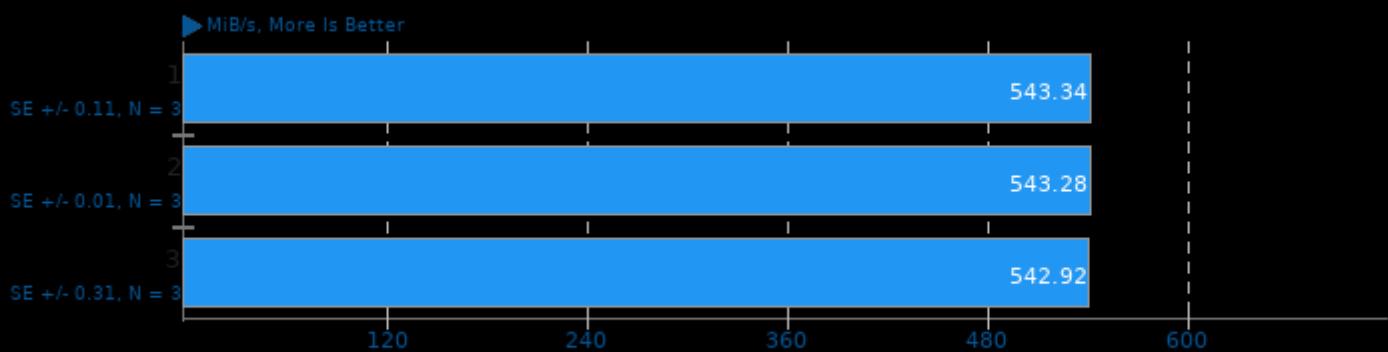
Test: Twofish - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

## Botan 2.17.3

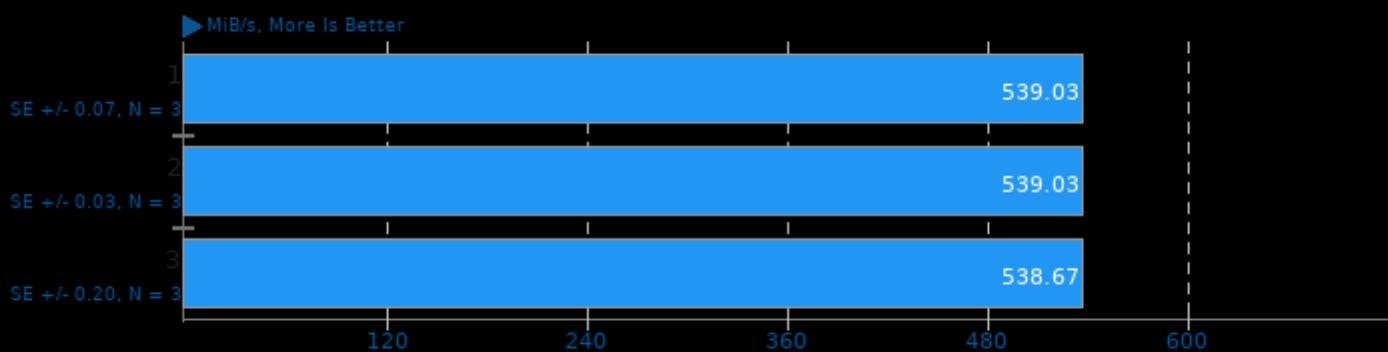
Test: Blowfish



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

## Botan 2.17.3

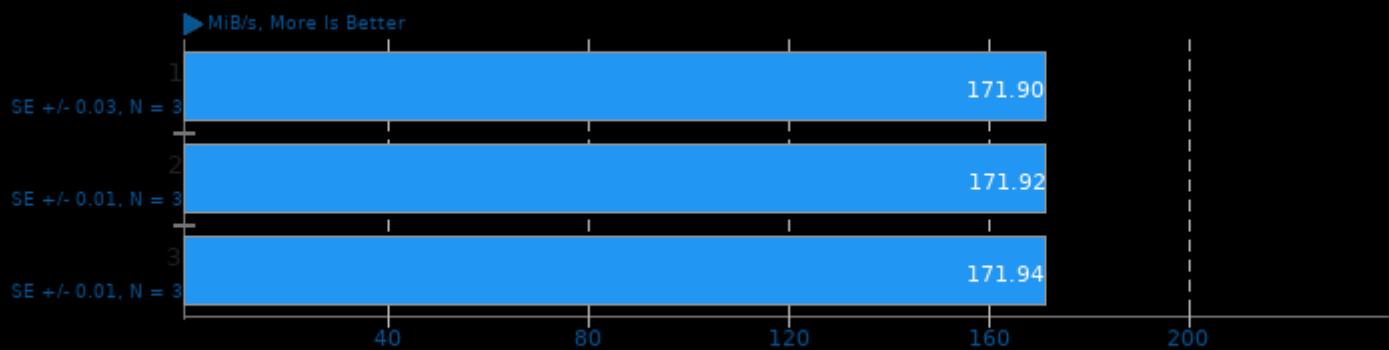
Test: Blowfish - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

## Botan 2.17.3

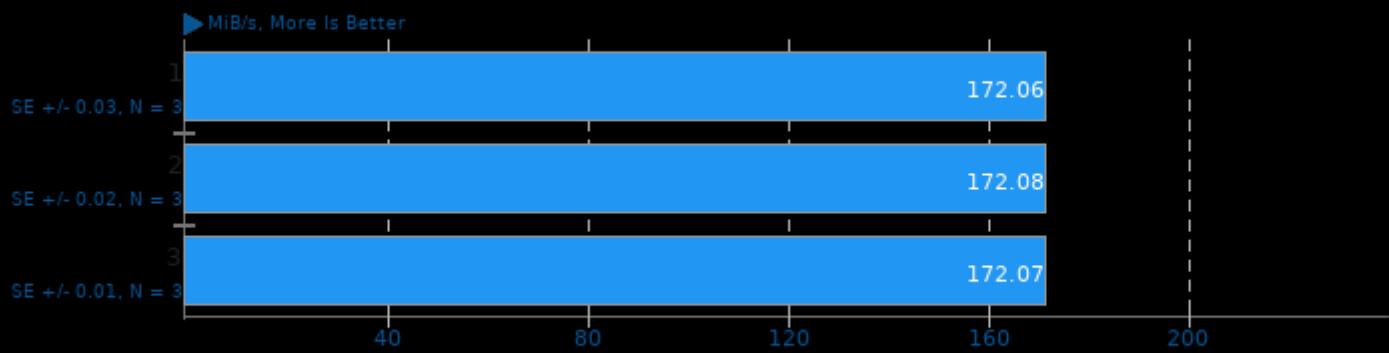
Test: CAST-256



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

## Botan 2.17.3

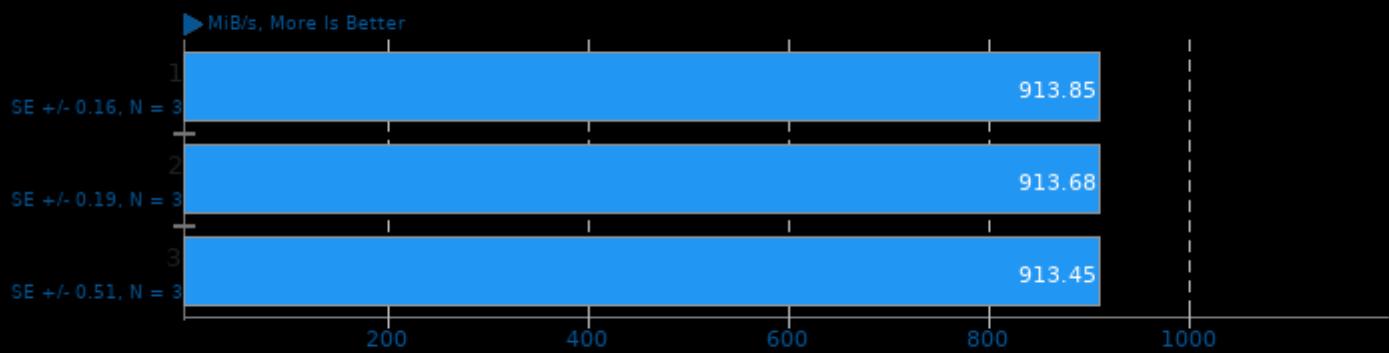
Test: CAST-256 - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

## Botan 2.17.3

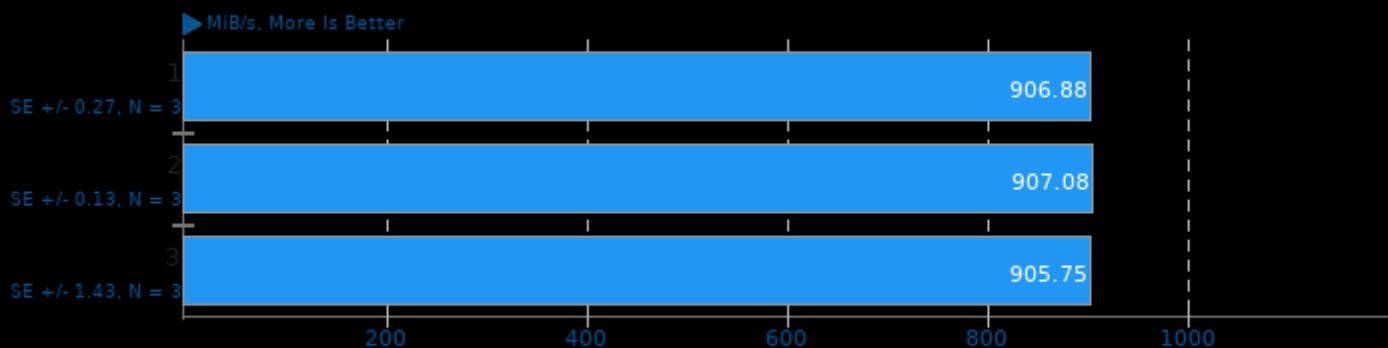
Test: ChaCha20Poly1305



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

## Botan 2.17.3

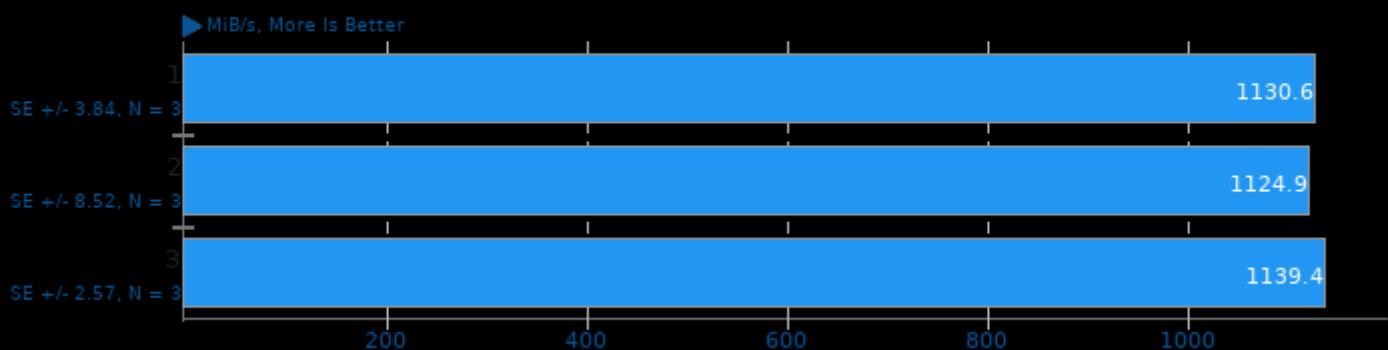
Test: ChaCha20Poly1305 - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

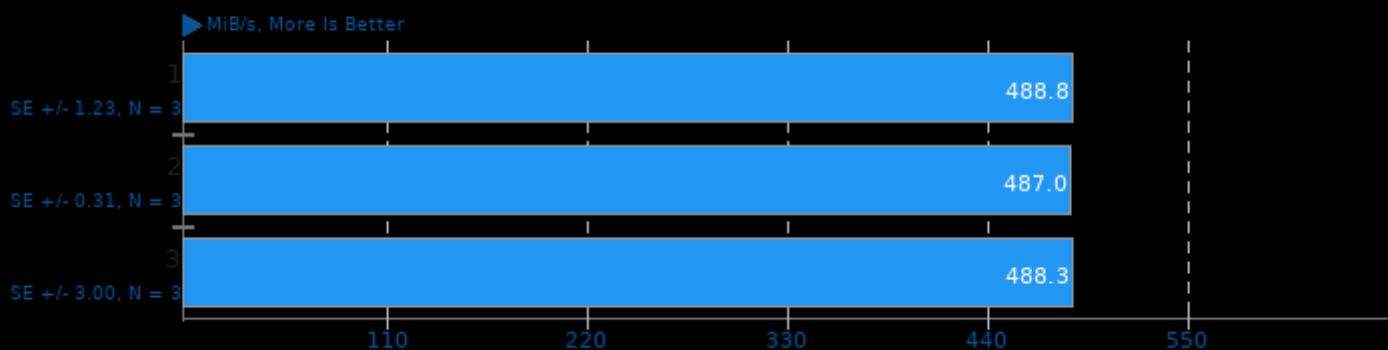
## LuaRadio 0.9.1

Test: Five Back to Back FIR Filters



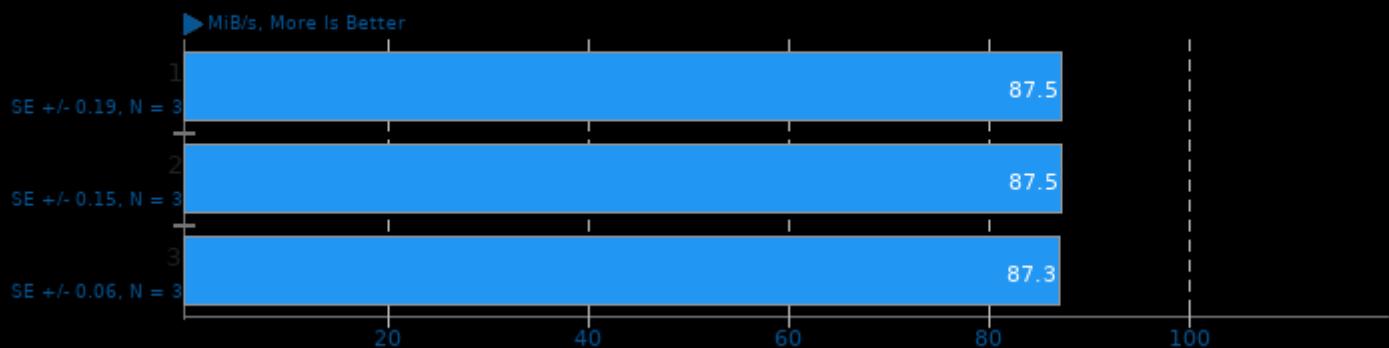
## LuaRadio 0.9.1

Test: FM Deemphasing Filter



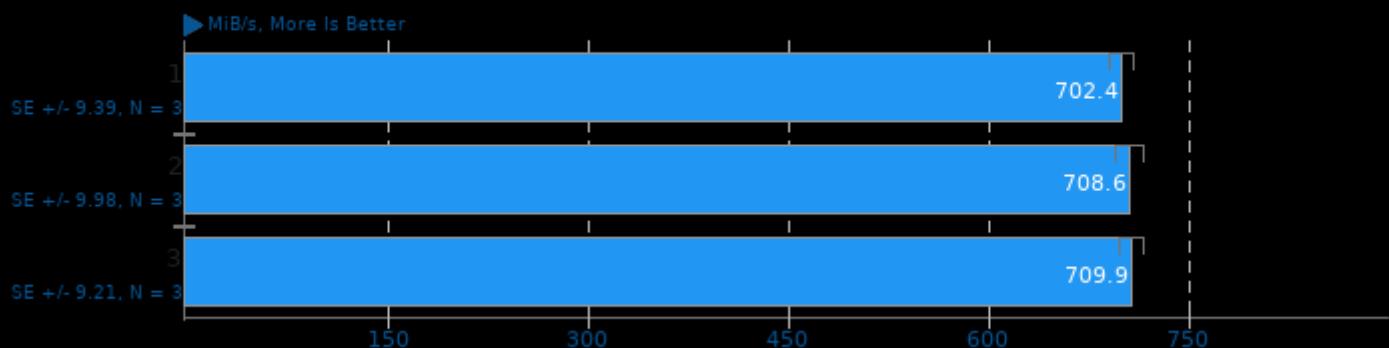
## LuaRadio 0.9.1

Test: Hilbert Transform



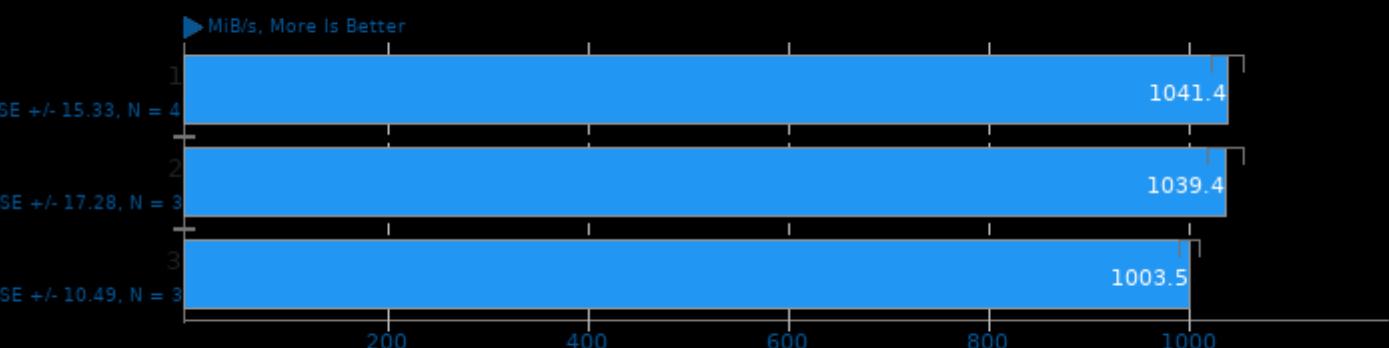
## LuaRadio 0.9.1

Test: Complex Phase



## GNU Radio

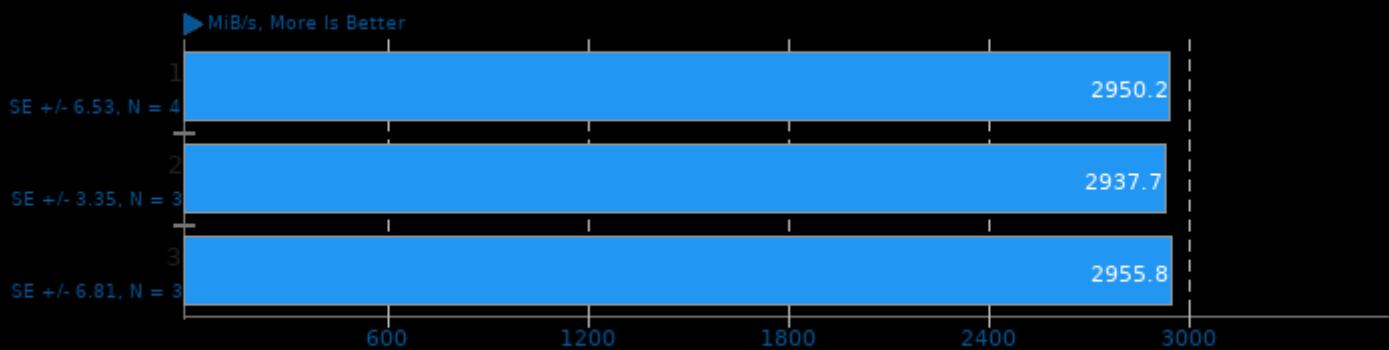
Test: Five Back to Back FIR Filters



1. 3.8.1.0

## GNU Radio

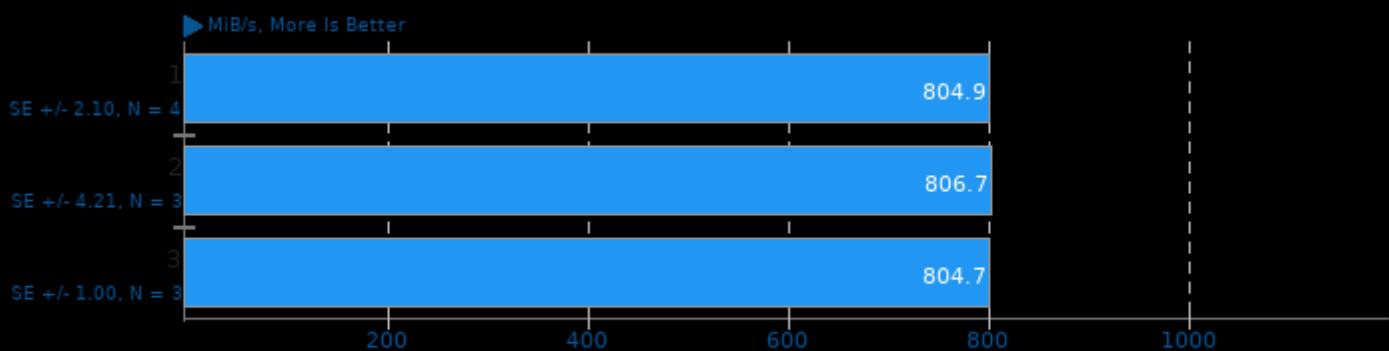
Test: Signal Source (Cosine)



1.3.8.1.0

## GNU Radio

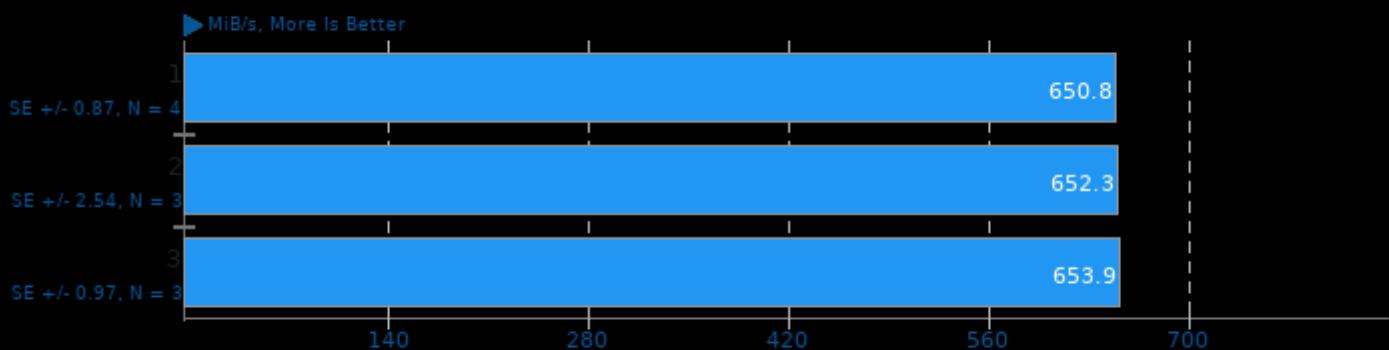
Test: FIR Filter



1.3.8.1.0

## GNU Radio

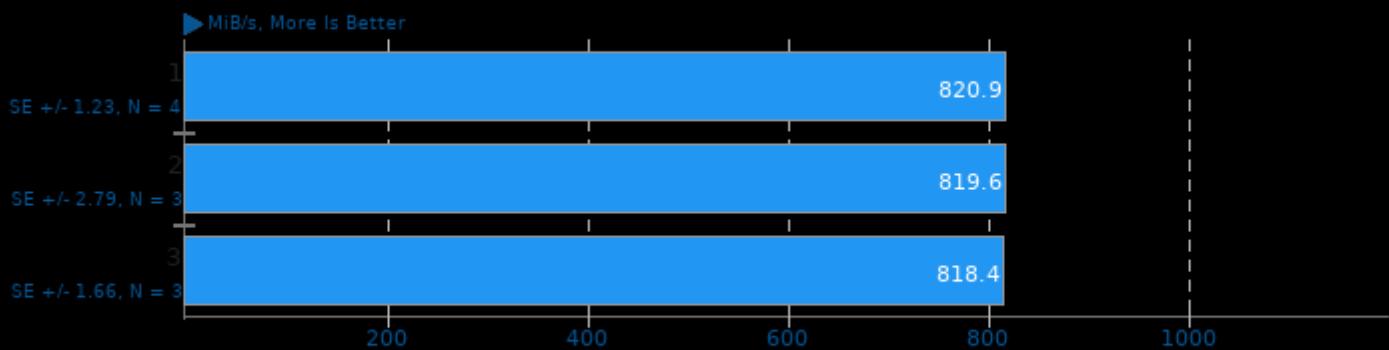
Test: IIR Filter



1.3.8.1.0

## GNU Radio

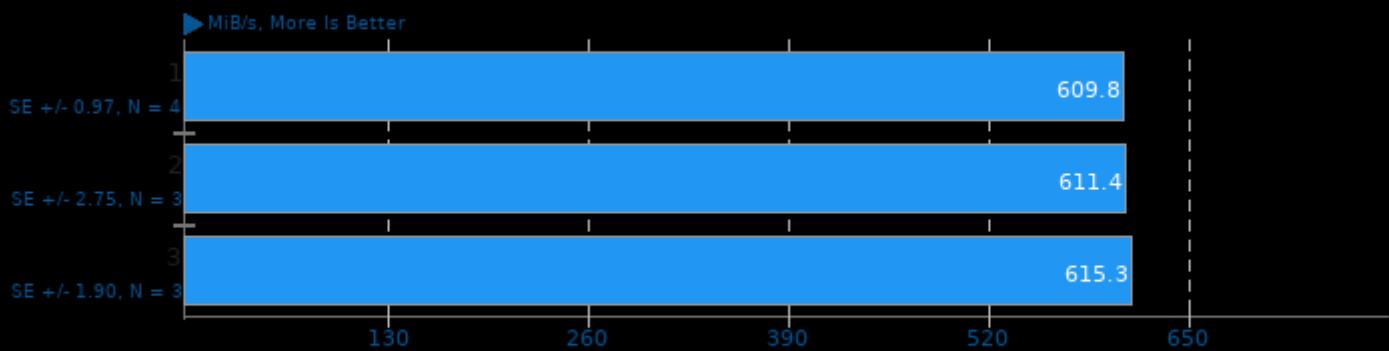
Test: FM Deemphasis Filter



1.3.8.1.0

## GNU Radio

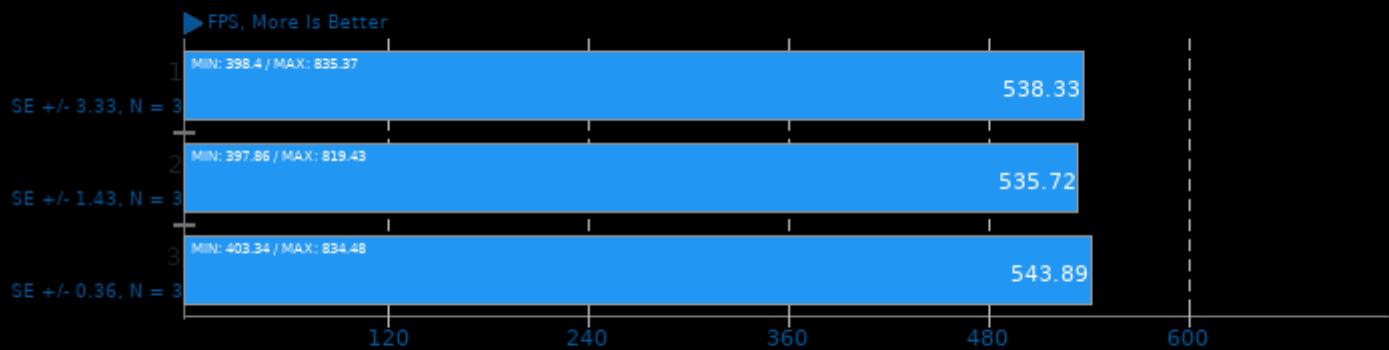
Test: Hilbert Transform



1.3.8.1.0

## dav1d 0.8.2

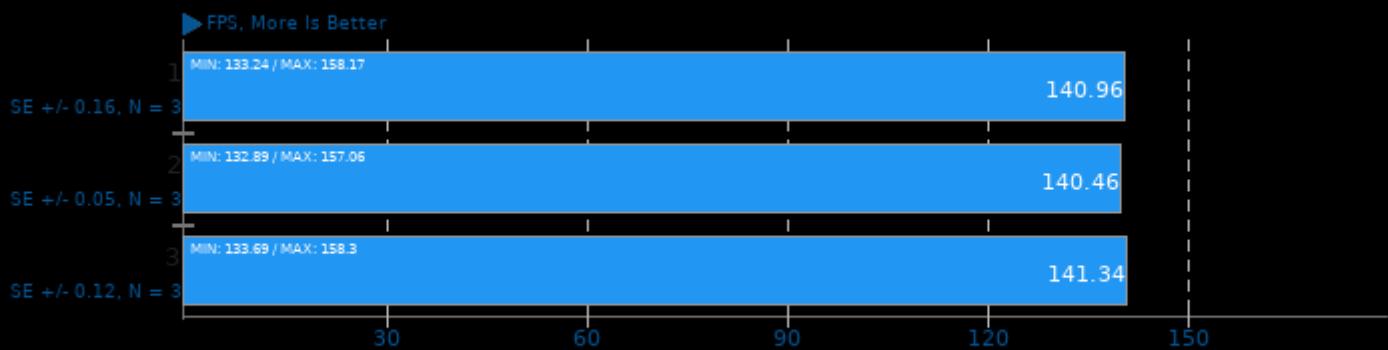
Video Input: Chimera 1080p



1. (CC) gcc options: -pthread -lm

## dav1d 0.8.2

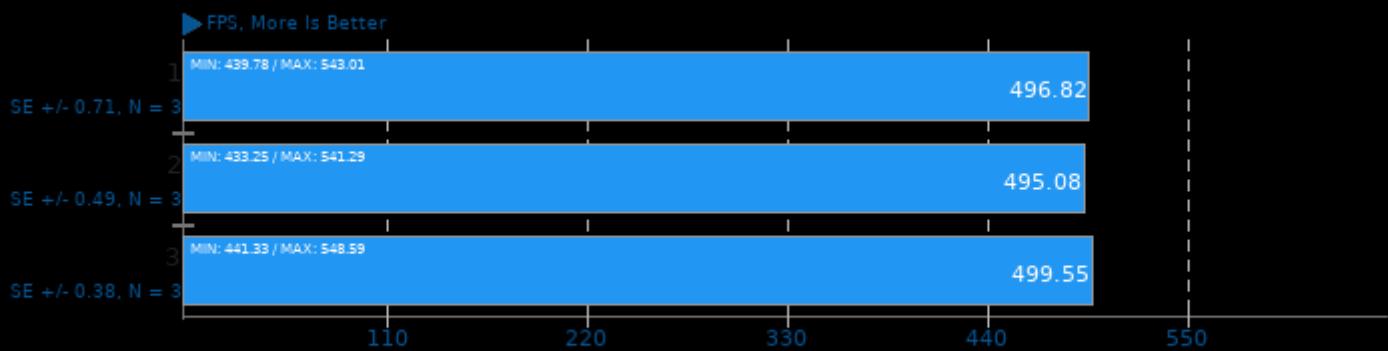
Video Input: Summer Nature 4K



1. (CC) gcc options: -pthread -lm

## dav1d 0.8.2

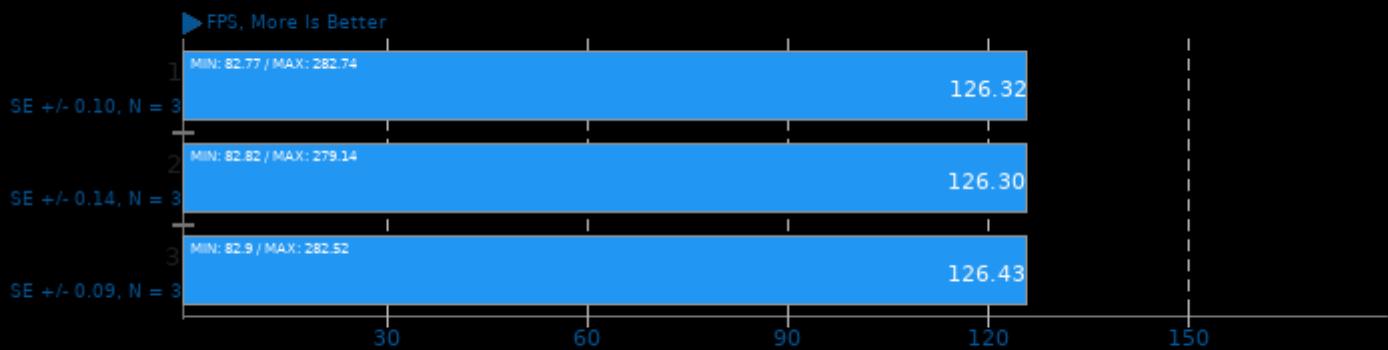
Video Input: Summer Nature 1080p



1. (CC) gcc options: -pthread -lm

## dav1d 0.8.2

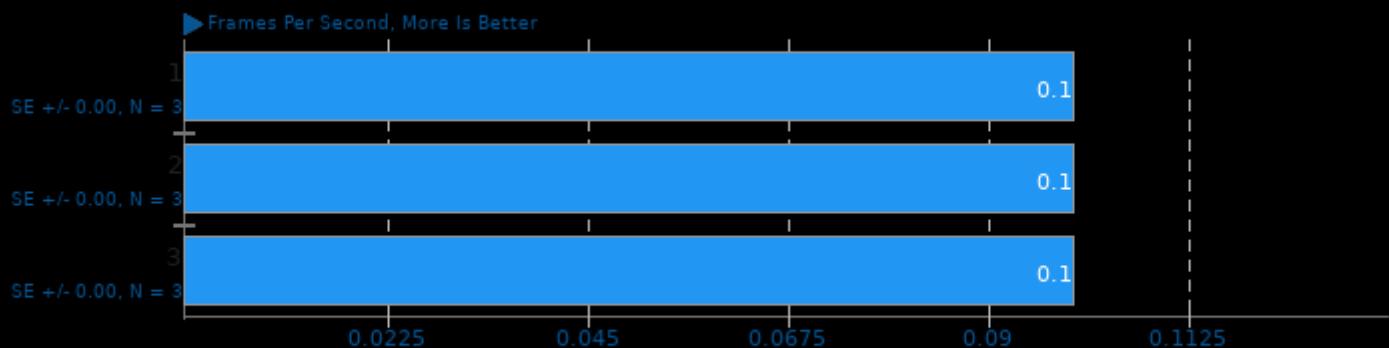
Video Input: Chimera 1080p 10-bit



1. (CC) gcc options: -pthread -lm

## AOM AV1 3.0

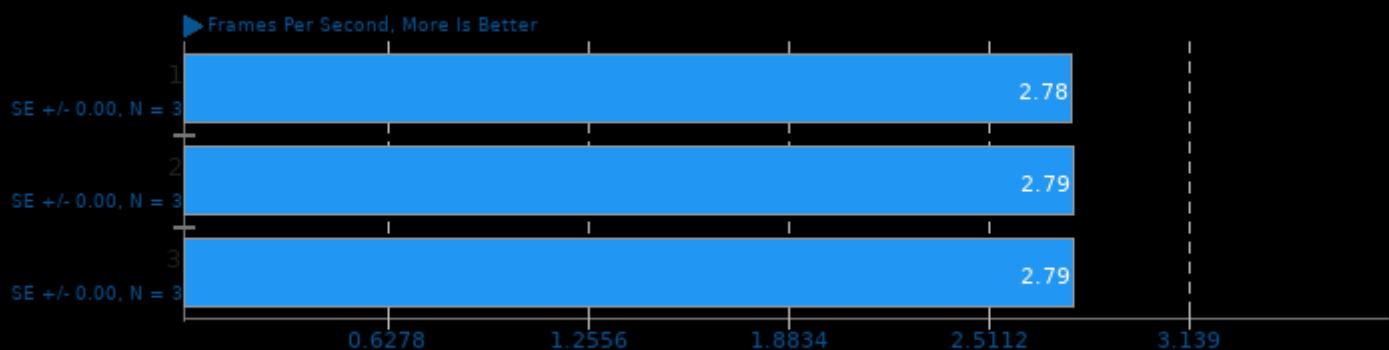
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U\_FORTIFY\_SOURCE -fPIC -fthreadsafe-statics

## AOM AV1 3.0

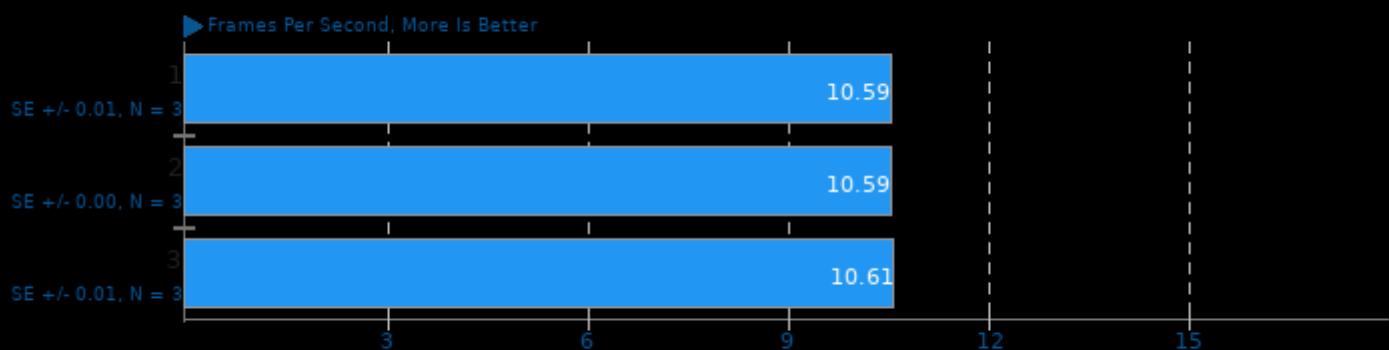
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U\_FORTIFY\_SOURCE -fPIC -fthreadsafe-statics

## AOM AV1 3.0

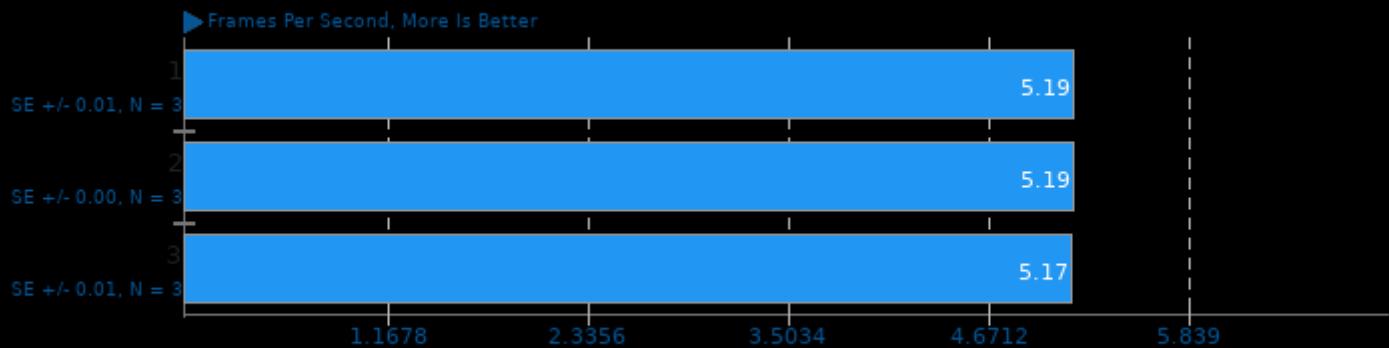
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U\_FORTIFY\_SOURCE -fPIC -fthreadsafe-statics

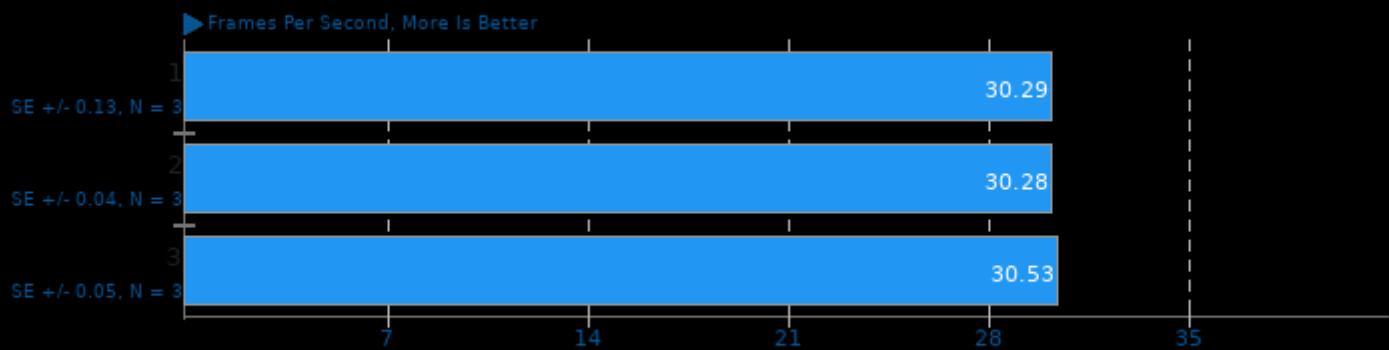
## AOM AV1 3.0

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



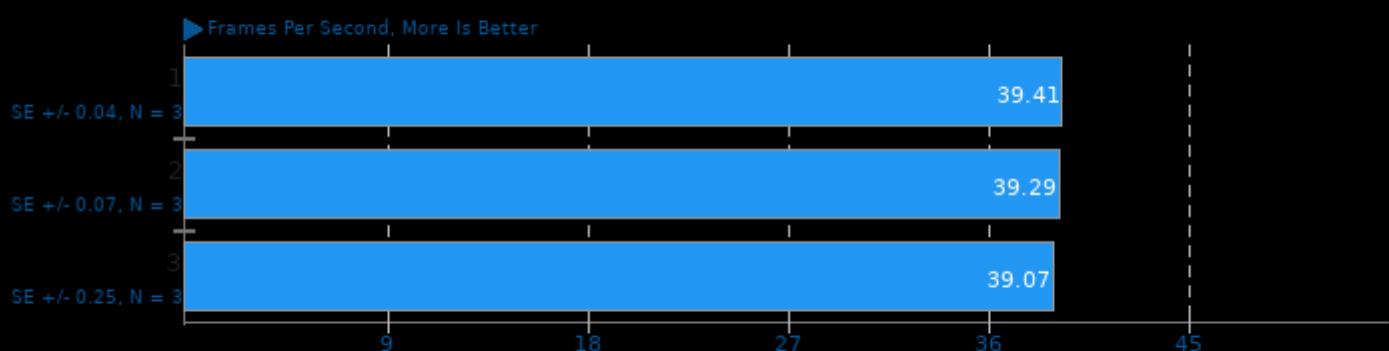
## AOM AV1 3.0

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



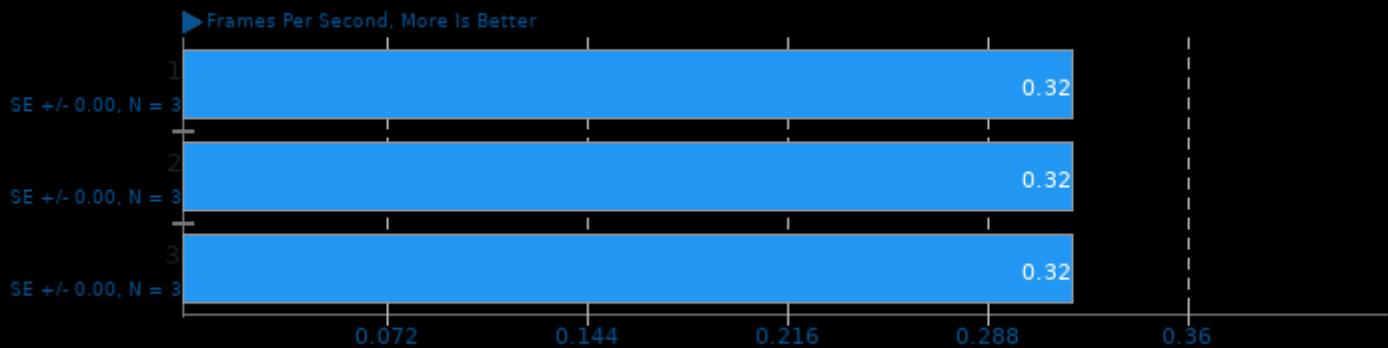
## AOM AV1 3.0

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



## AOM AV1 3.0

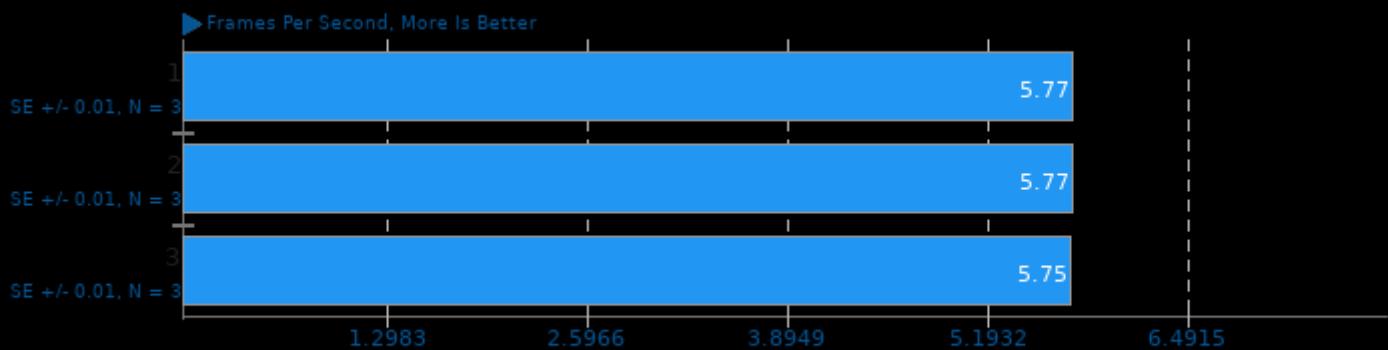
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U\_FORTIFY\_SOURCE -fPIC -lpthread

## AOM AV1 3.0

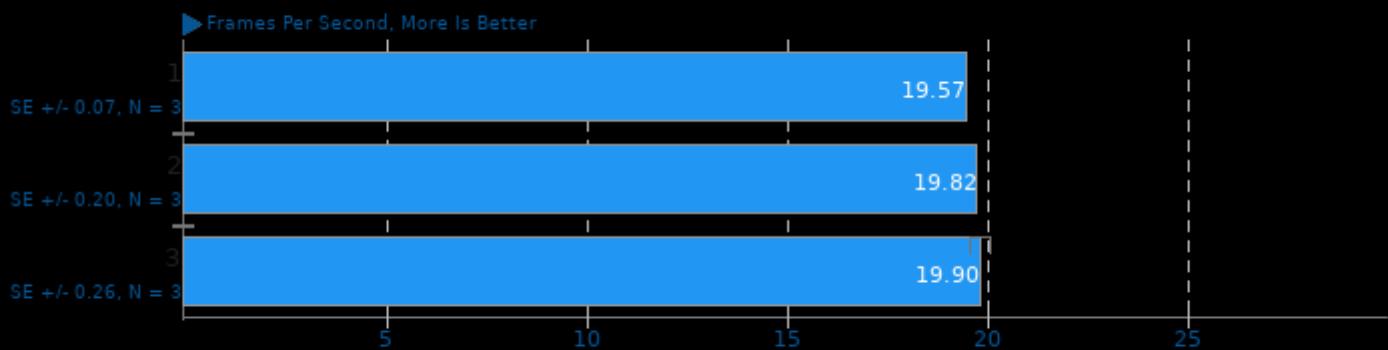
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U\_FORTIFY\_SOURCE -fPIC -lpthread

## AOM AV1 3.0

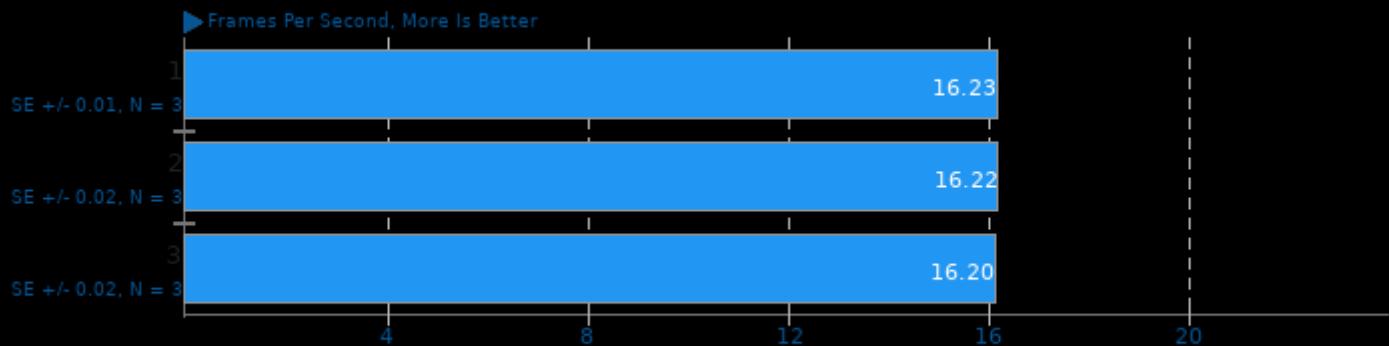
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U\_FORTIFY\_SOURCE -fPIC -lpthread

## AOM AV1 3.0

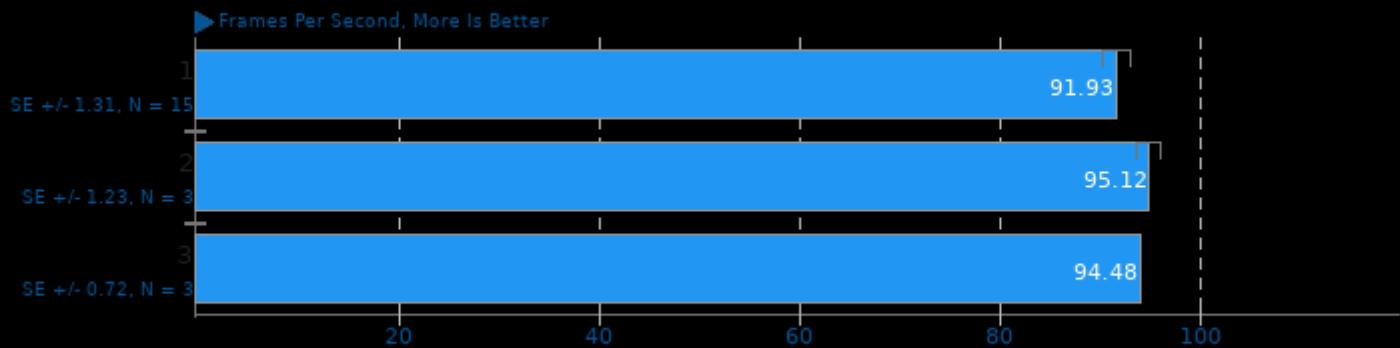
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U\_FORTIFY\_SOURCE -fPIC -fthread

## AOM AV1 3.0

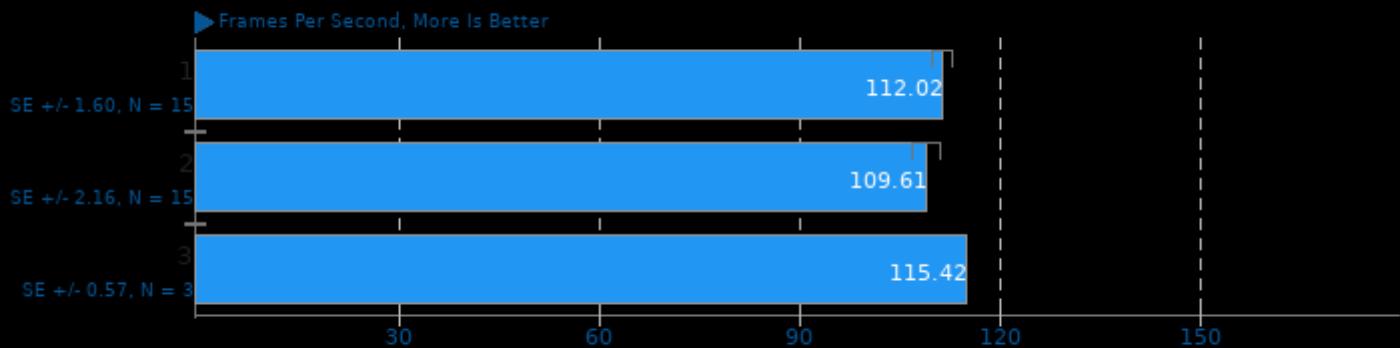
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U\_FORTIFY\_SOURCE -fPIC -fthread

## AOM AV1 3.0

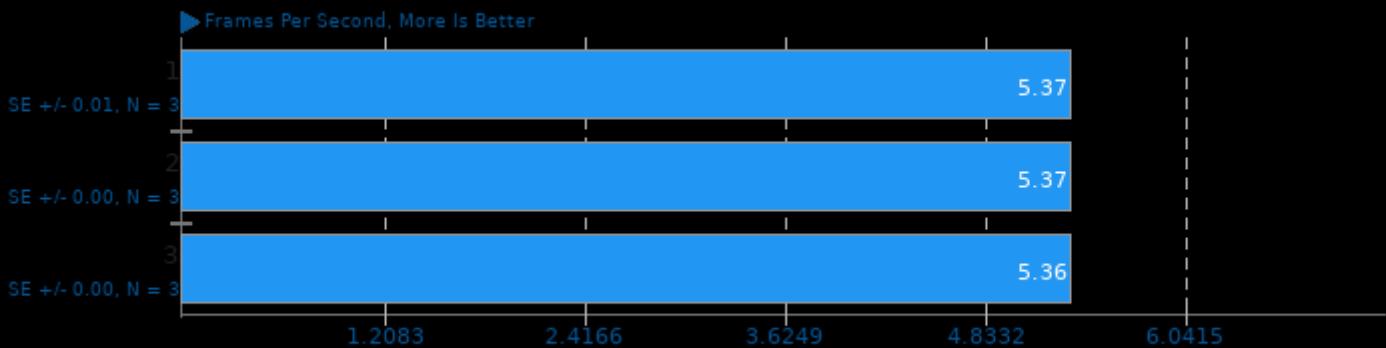
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U\_FORTIFY\_SOURCE -fPIC -fthread

## SVT-HEVC 1.5.0

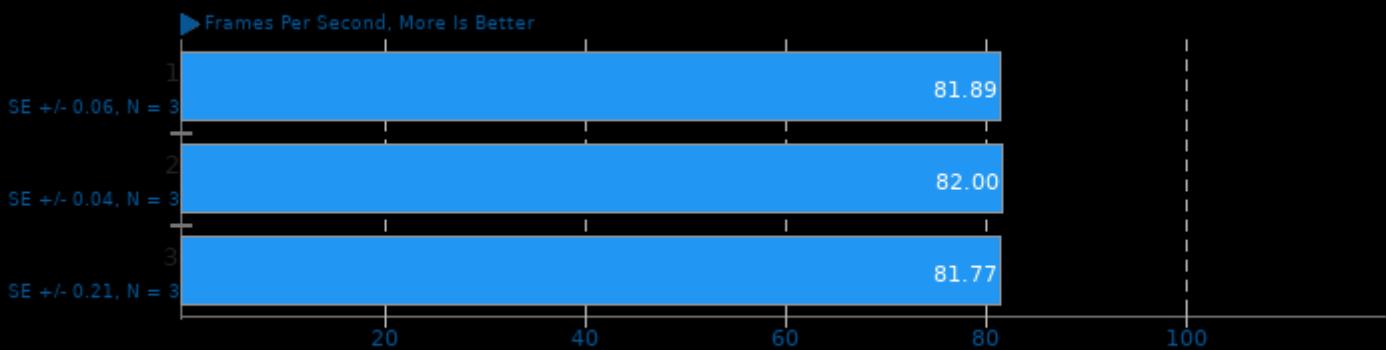
Tuning: 1 - Input: Bosphorus 1080p



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

## SVT-HEVC 1.5.0

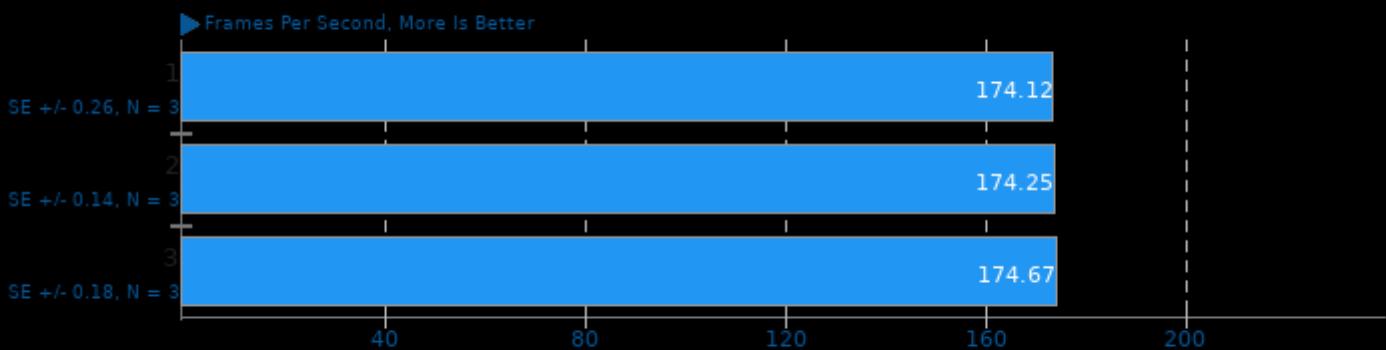
Tuning: 7 - Input: Bosphorus 1080p



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

## SVT-HEVC 1.5.0

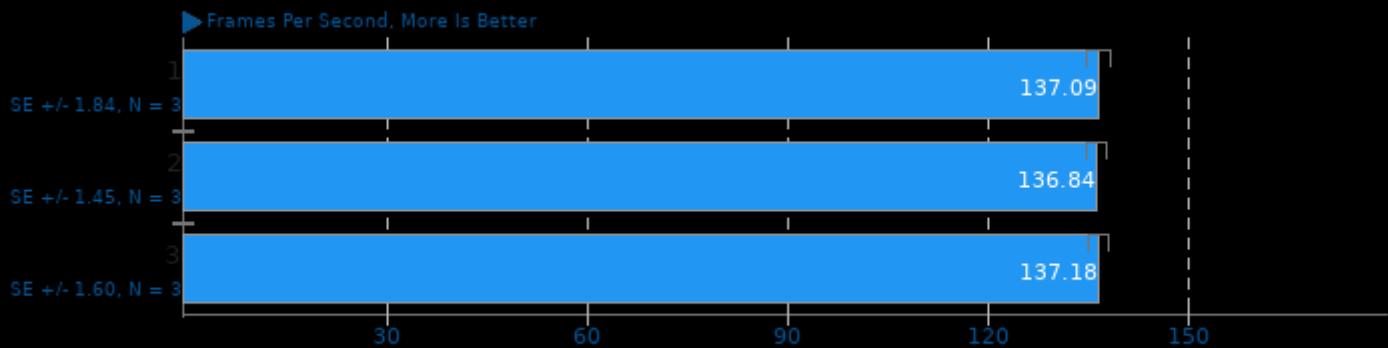
Tuning: 10 - Input: Bosphorus 1080p



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

## SVT-VP9 0.3

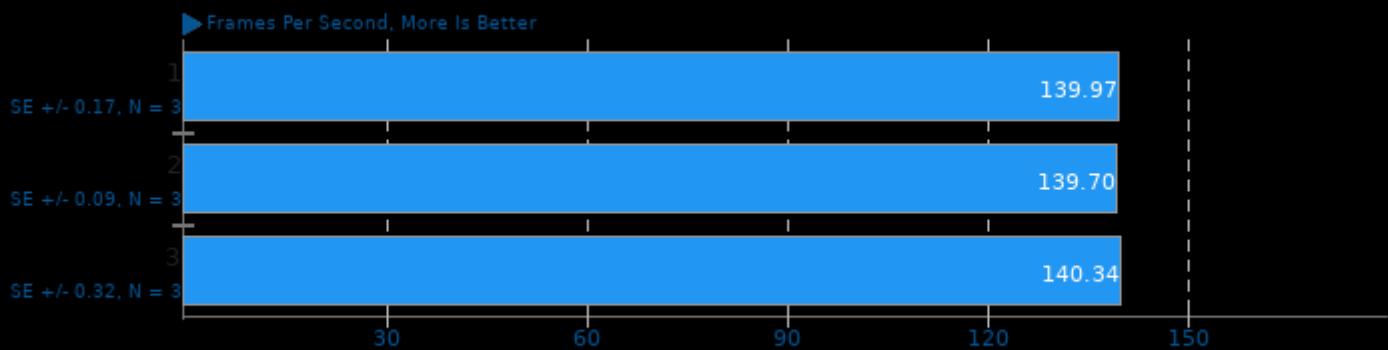
Tuning: VMAF Optimized - Input: Bosphorus 1080p



1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

## SVT-VP9 0.3

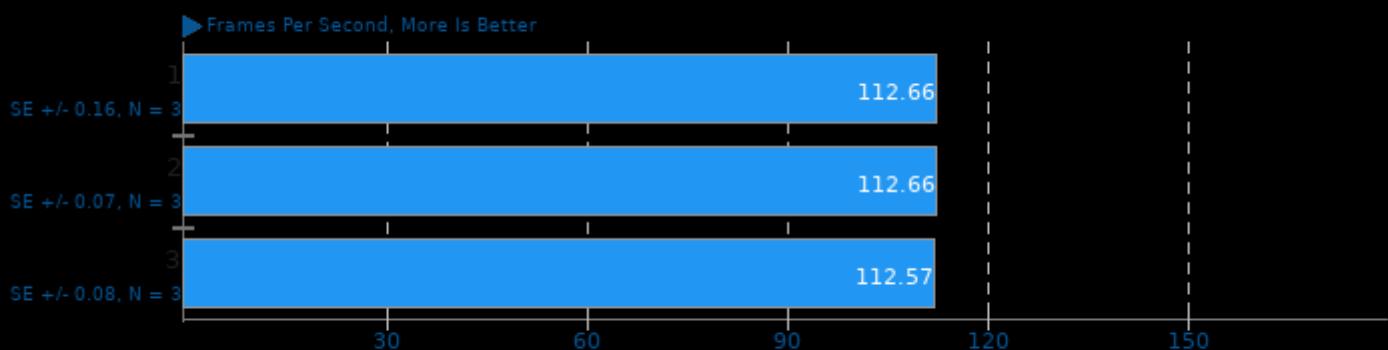
Tuning: PSNR/SSIM Optimized - Input: Bosphorus 1080p



1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

## SVT-VP9 0.3

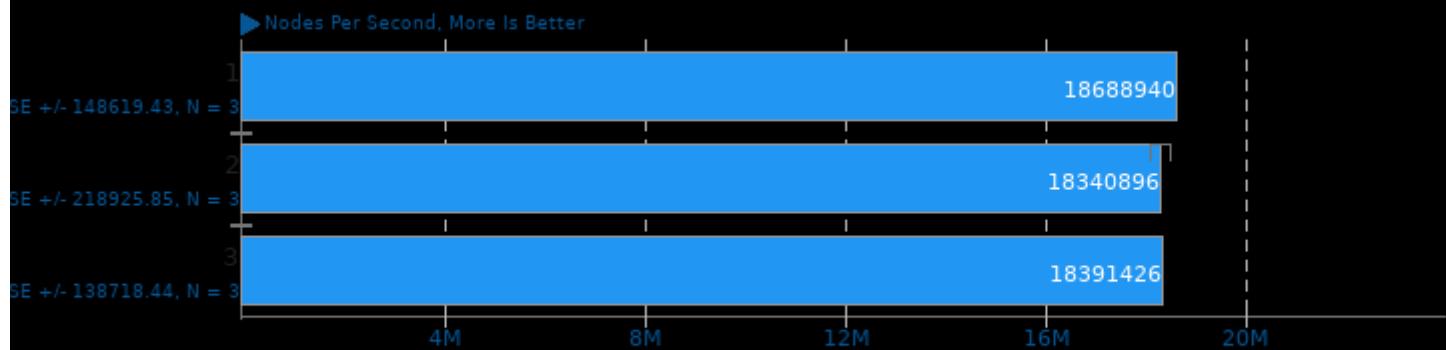
Tuning: Visual Quality Optimized - Input: Bosphorus 1080p



1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

## Stockfish 13

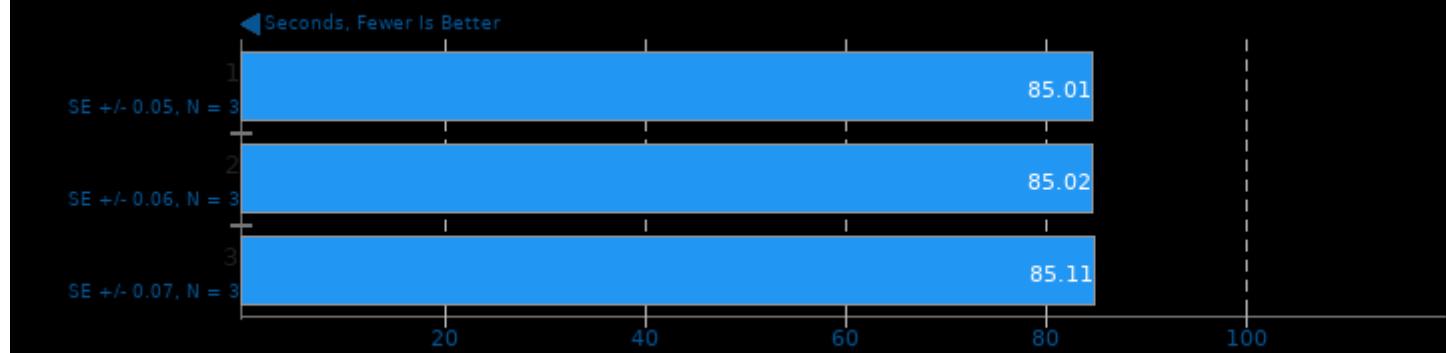
Total Time



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

## libavif avifenc 0.9.0

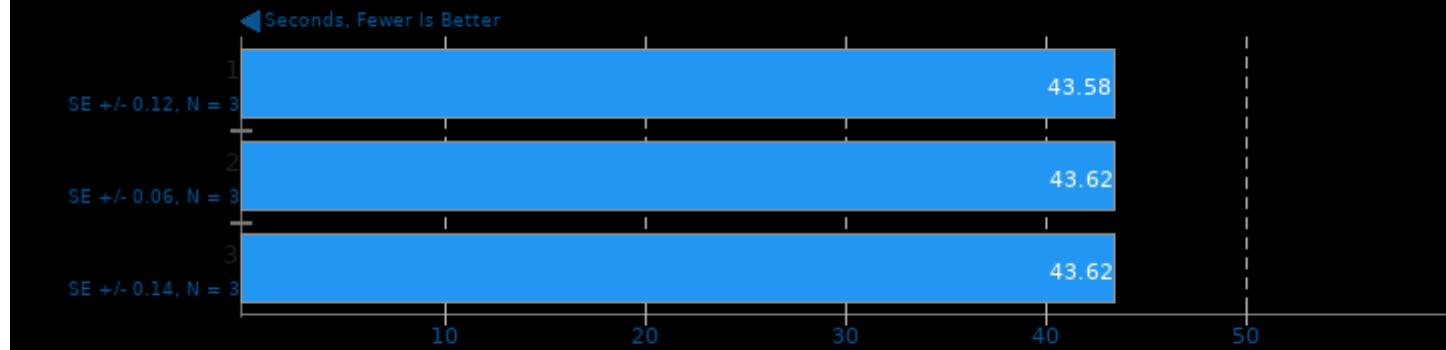
Encoder Speed: 0



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

## libavif avifenc 0.9.0

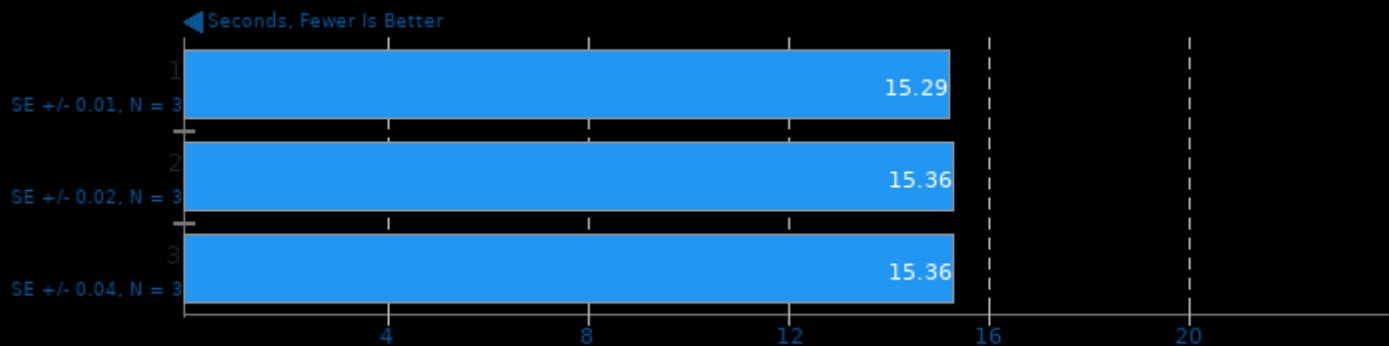
Encoder Speed: 2



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

**libavif avifenc 0.9.0**

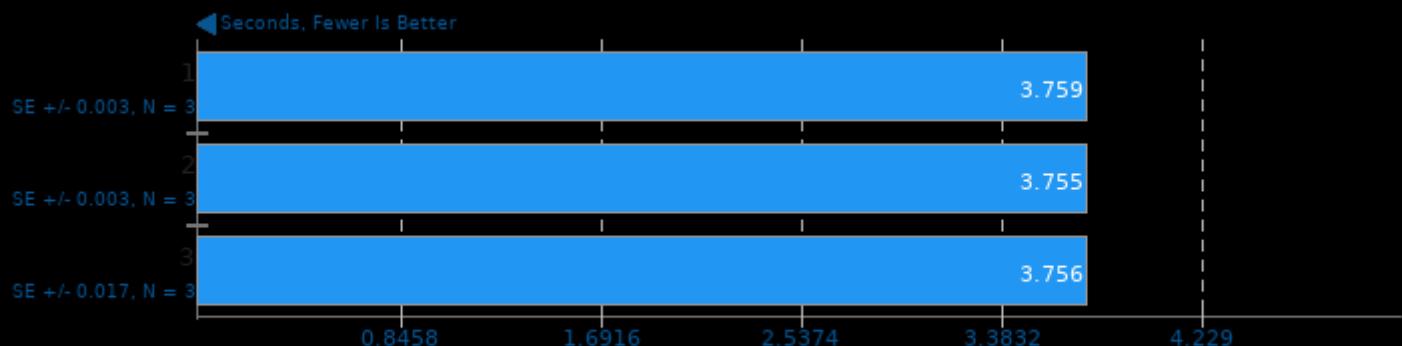
Encoder Speed: 6



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

**libavif avifenc 0.9.0**

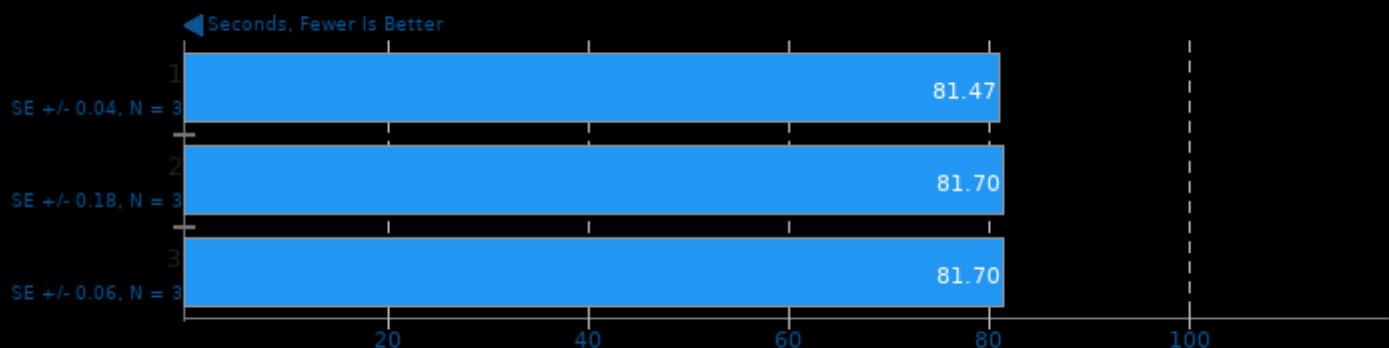
Encoder Speed: 10



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

**libavif avifenc 0.9.0**

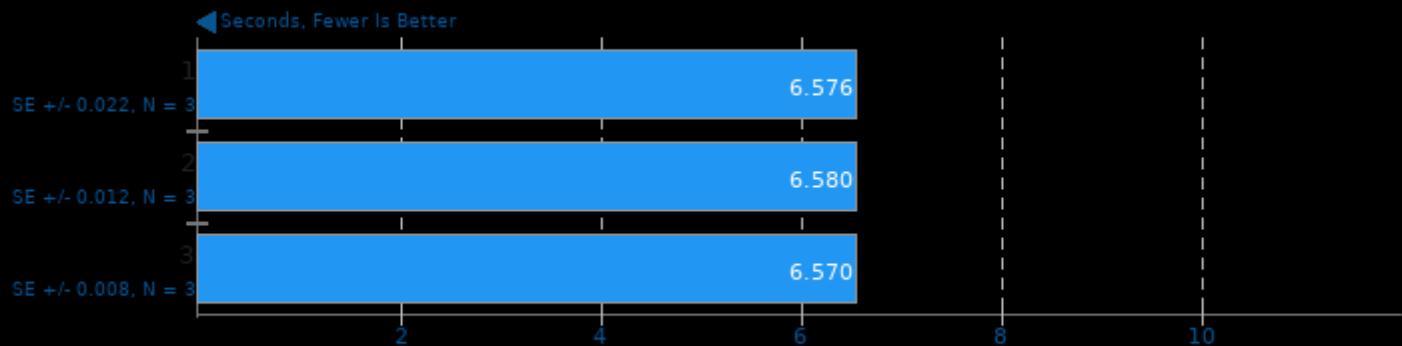
Encoder Speed: 6, Lossless



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

## libavif avifenc 0.9.0

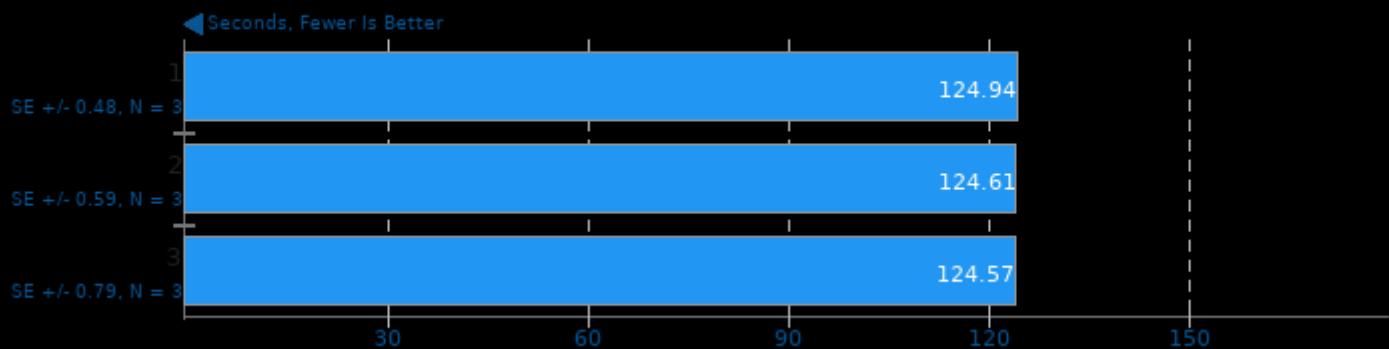
Encoder Speed: 10, Lossless



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

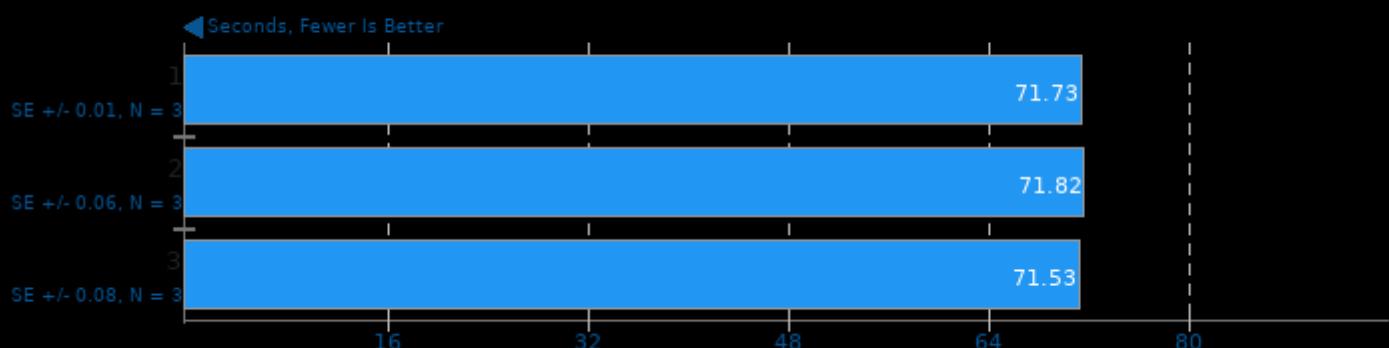
## Timed Linux Kernel Compilation 5.10.20

Time To Compile



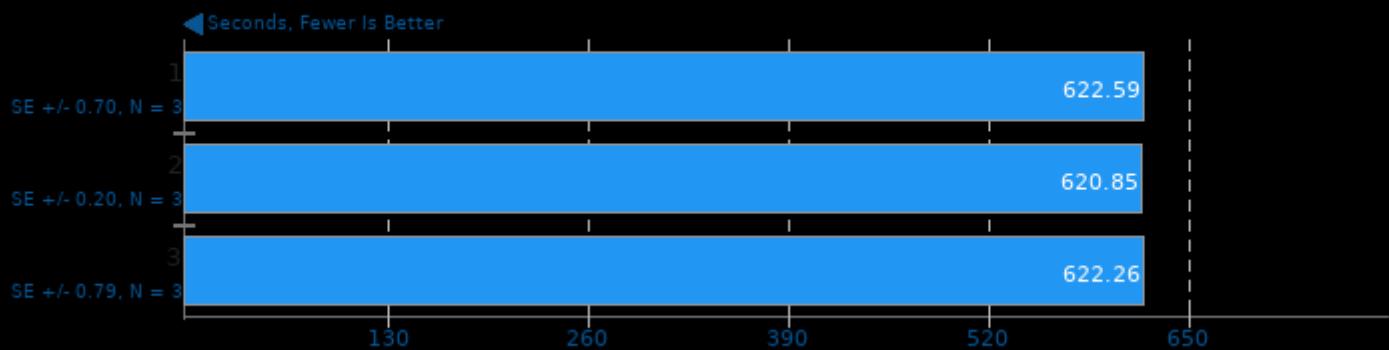
## Timed Mesa Compilation 21.0

Time To Compile



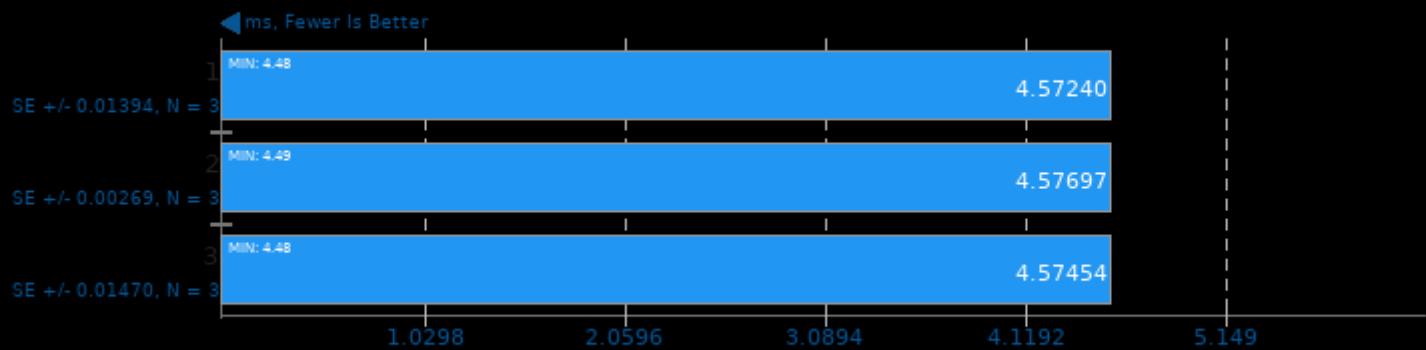
## Timed Node.js Compilation 15.11

Time To Compile



## oneDNN 2.1.2

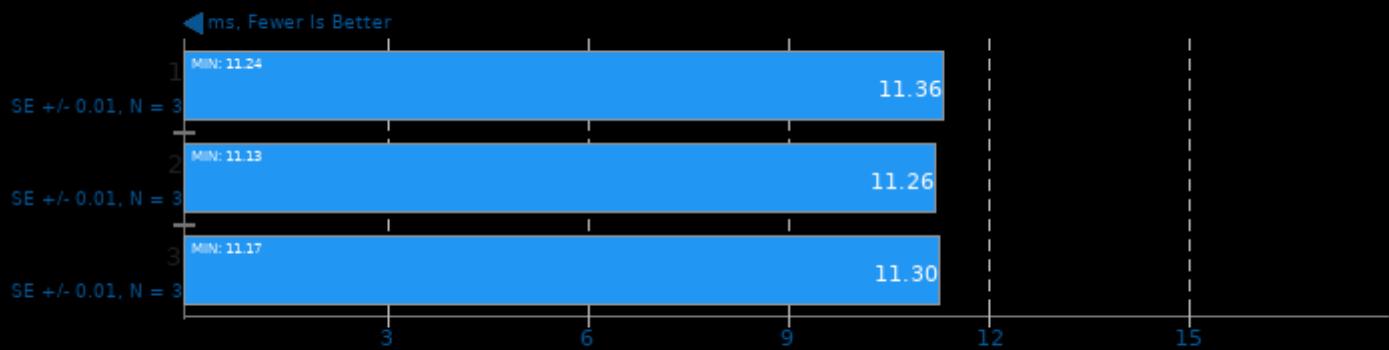
Harness: IP Shapes 1D - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

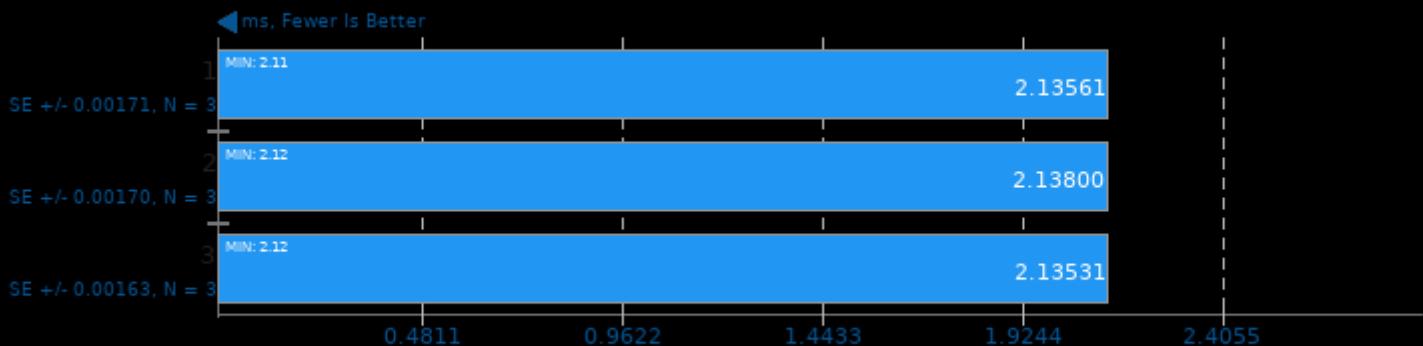
Harness: IP Shapes 3D - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

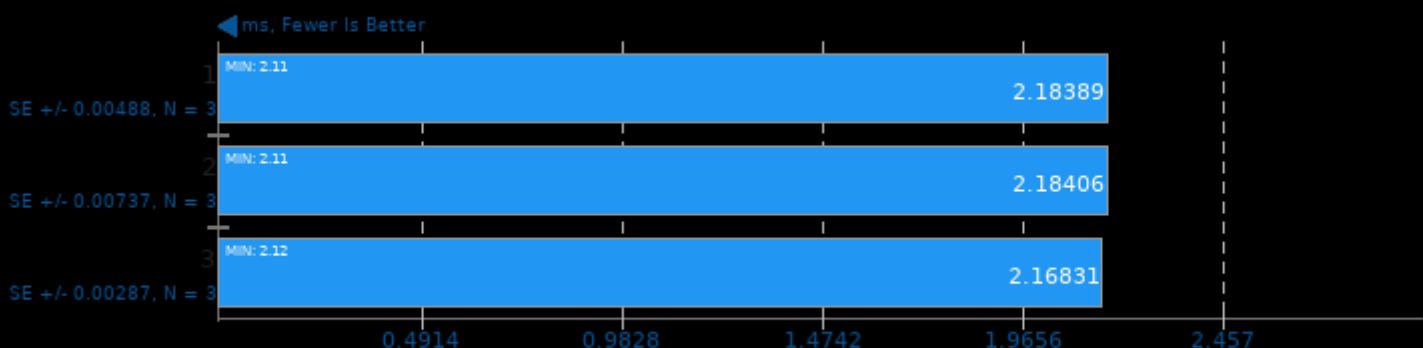
Harness: IP Shapes 1D - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

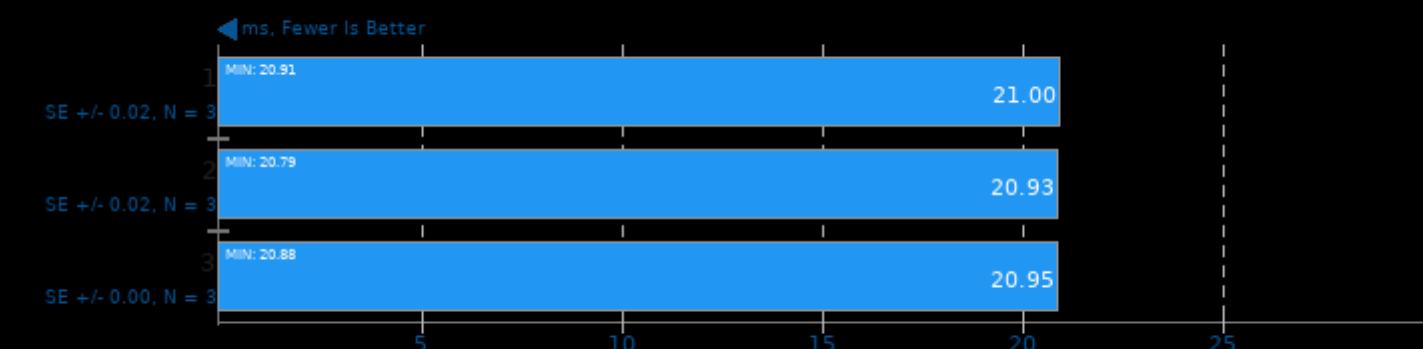
Harness: IP Shapes 3D - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

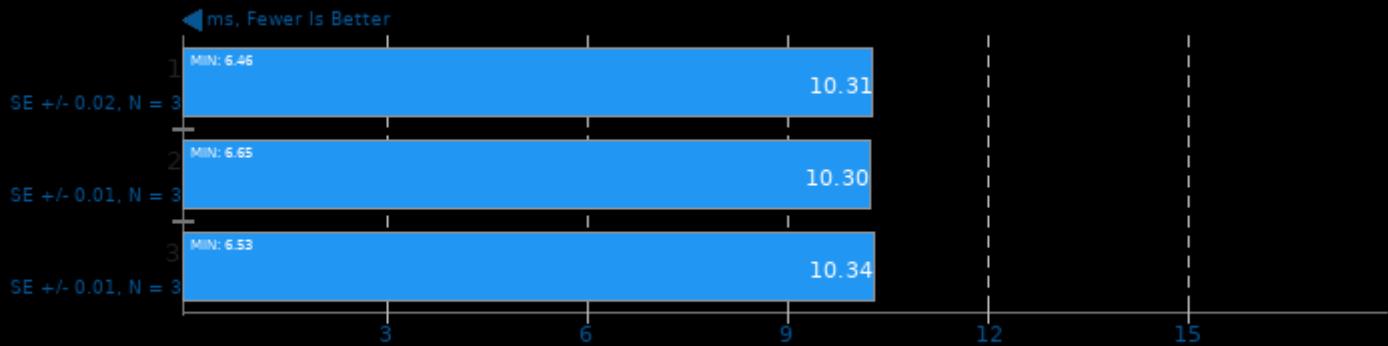
Harness: Convolution Batch Shapes Auto - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

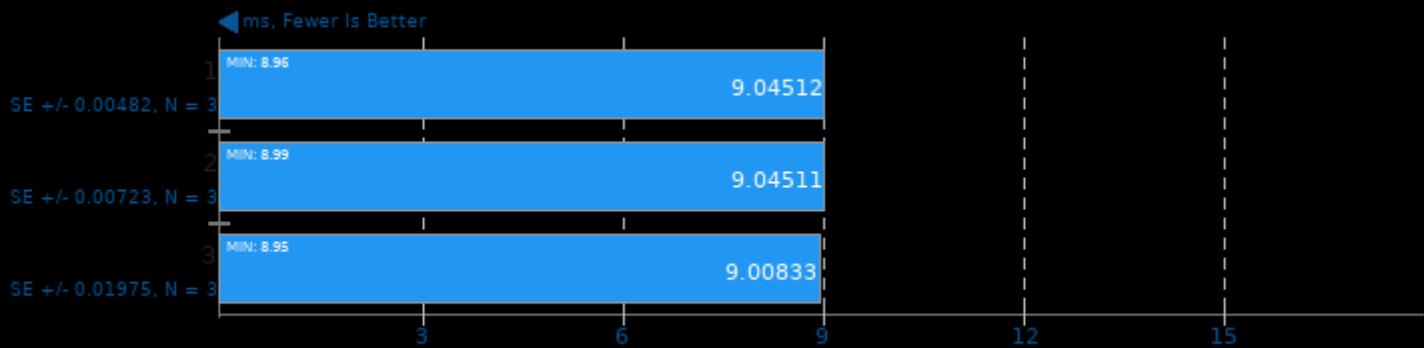
Harness: Deconvolution Batch shapes\_1d - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

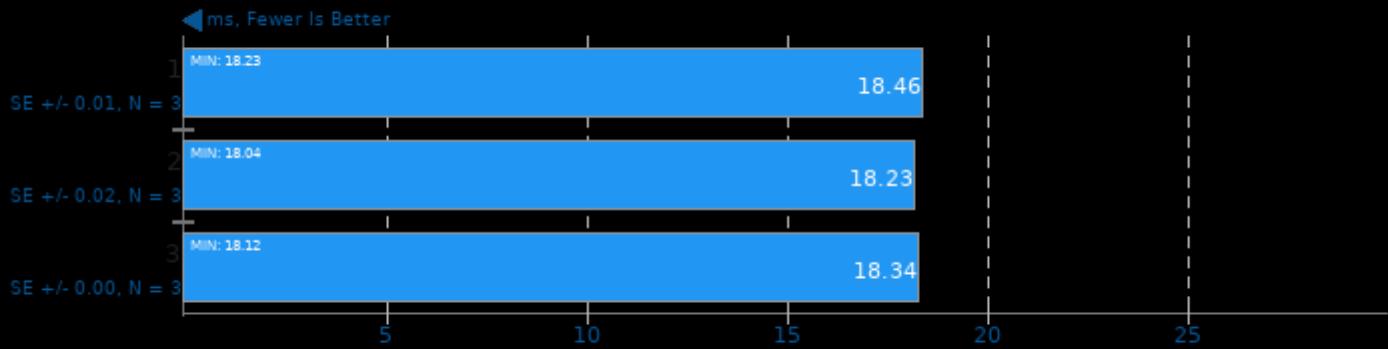
Harness: Deconvolution Batch shapes\_3d - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

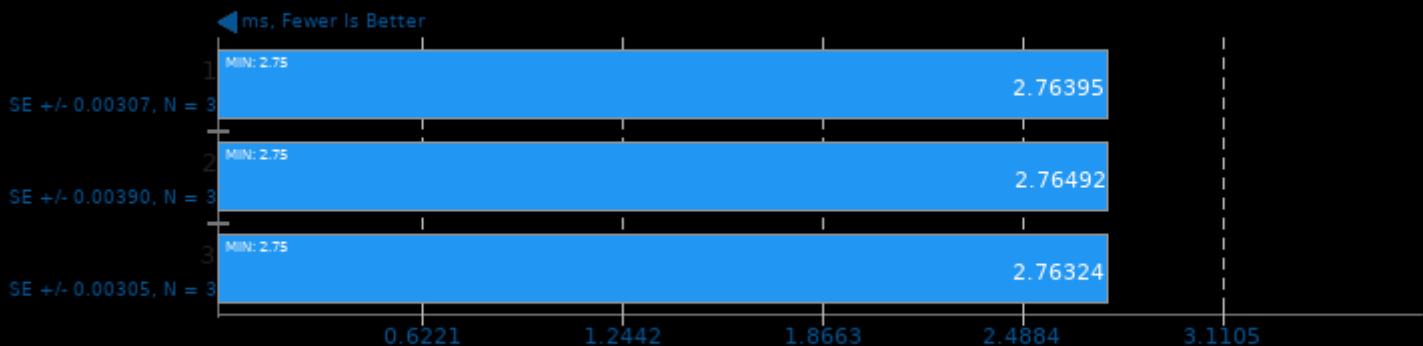
Harness: Convolution Batch Shapes Auto - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

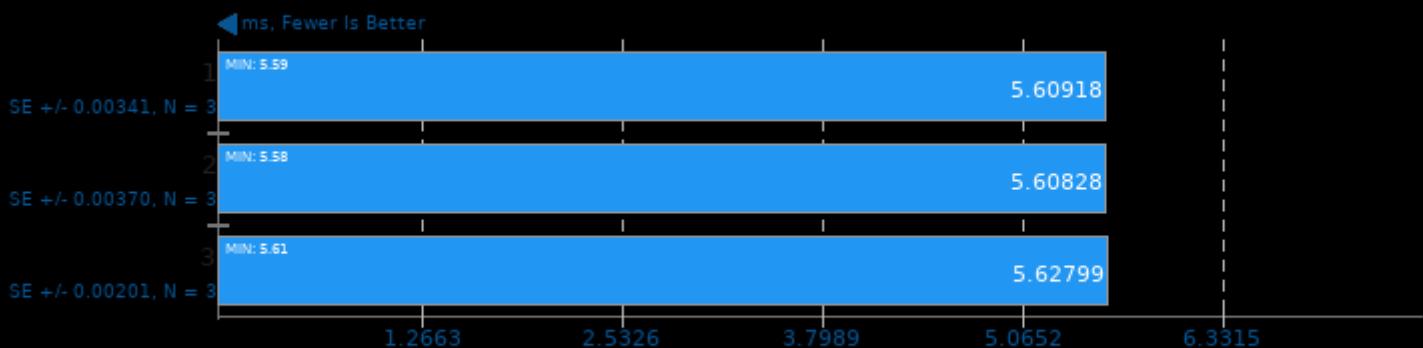
Harness: Deconvolution Batch shapes\_1d - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

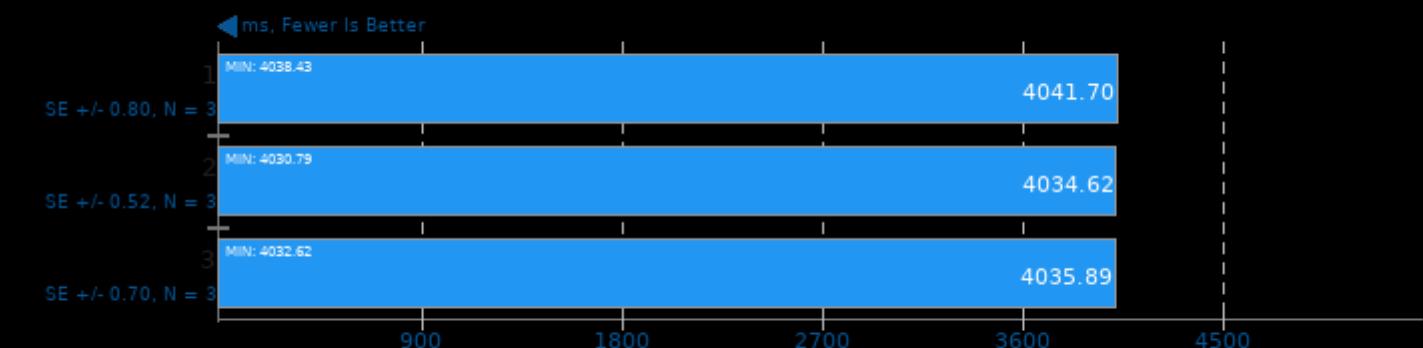
Harness: Deconvolution Batch shapes\_3d - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

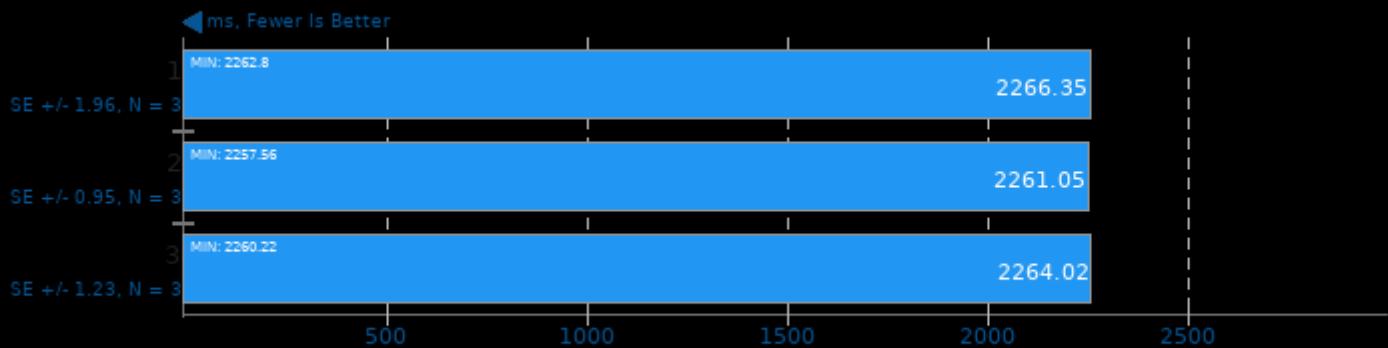
Harness: Recurrent Neural Network Training - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

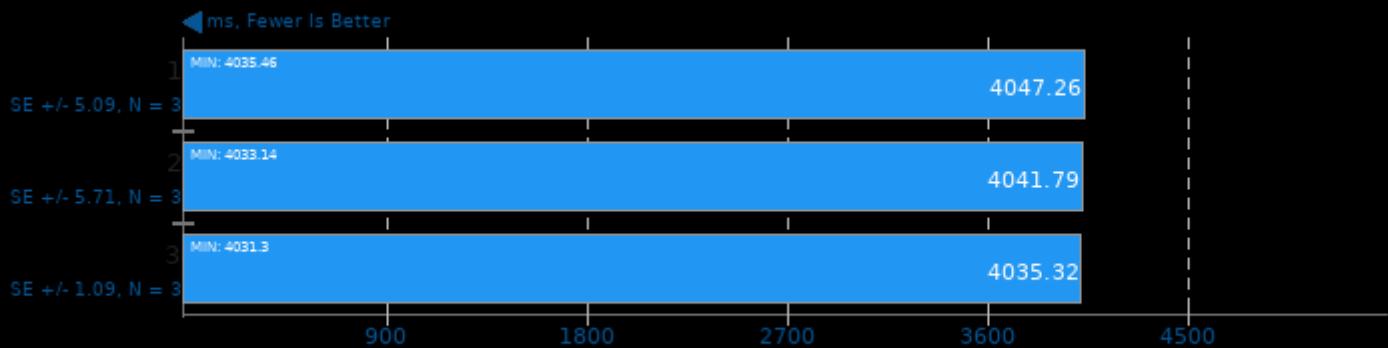
Harness: Recurrent Neural Network Inference - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

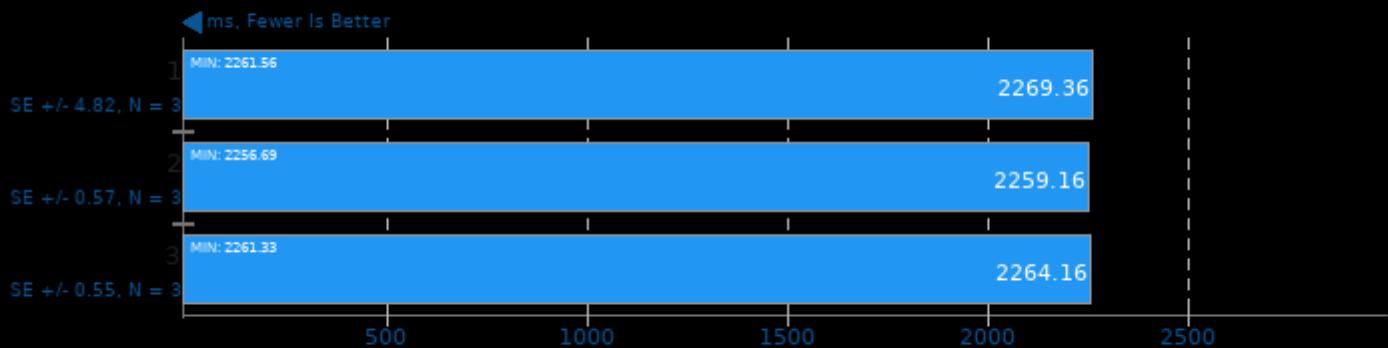
Harness: Recurrent Neural Network Training - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

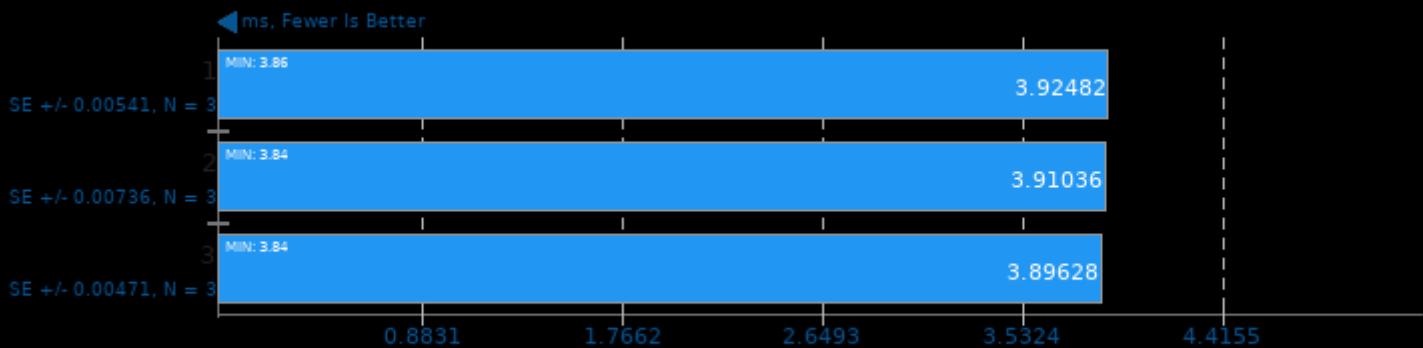
Harness: Recurrent Neural Network Inference - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

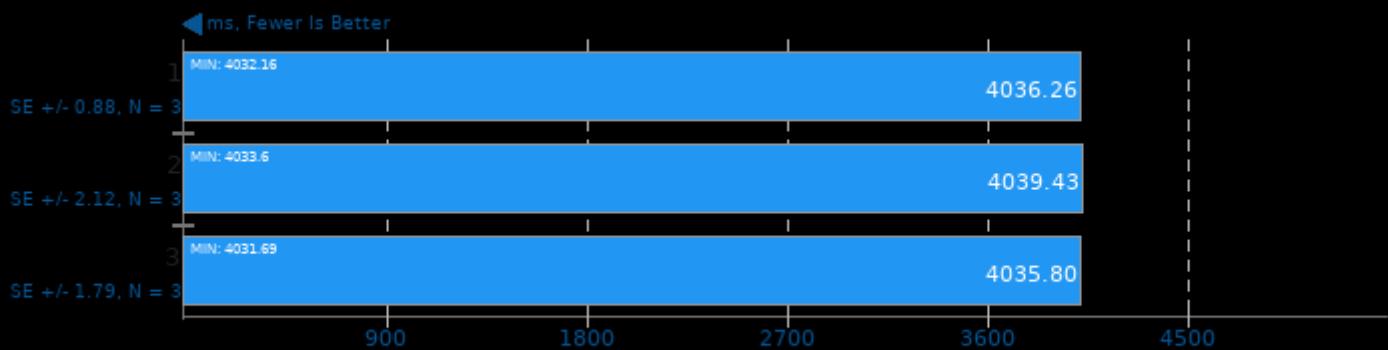
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

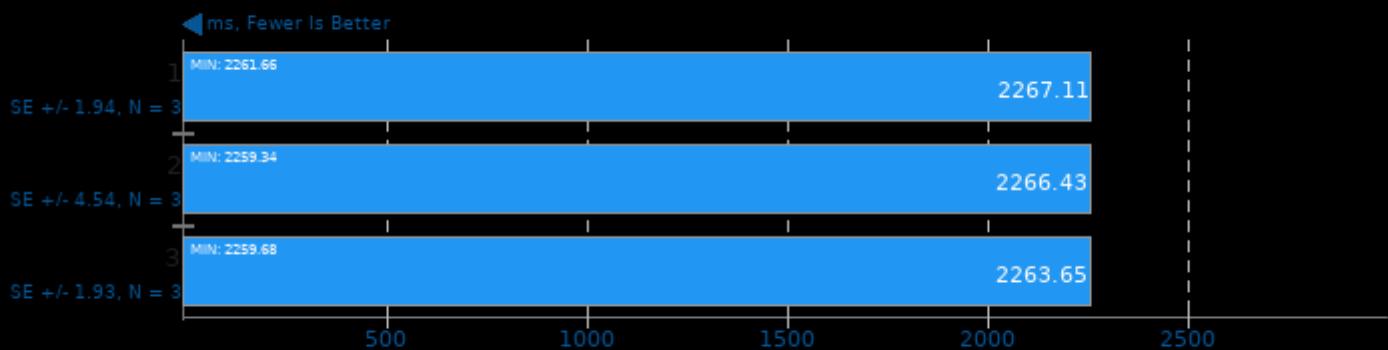
Harness: Recurrent Neural Network Training - Data Type: bf16bf16bf16 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

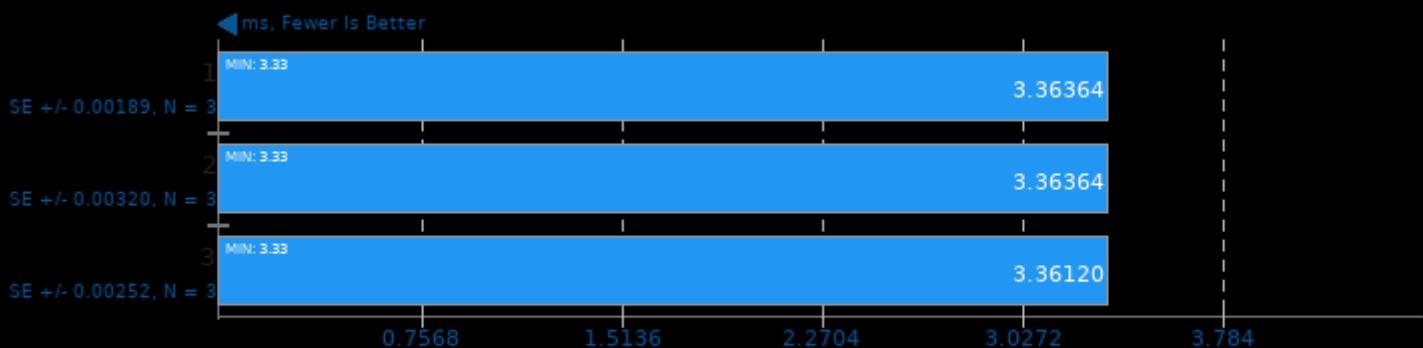
Harness: Recurrent Neural Network Inference - Data Type: bf16bf16bf16 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

## oneDNN 2.1.2

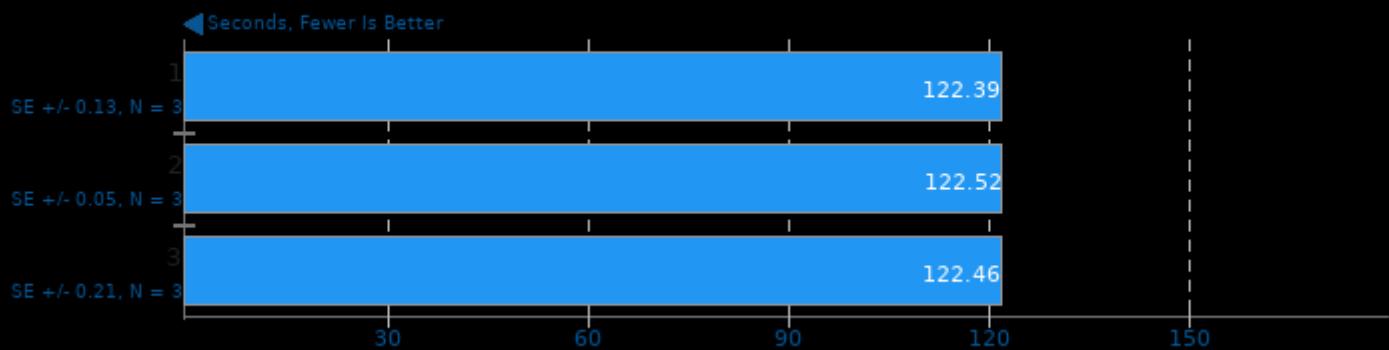
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: u8s8f32 - Engine: CPU



1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

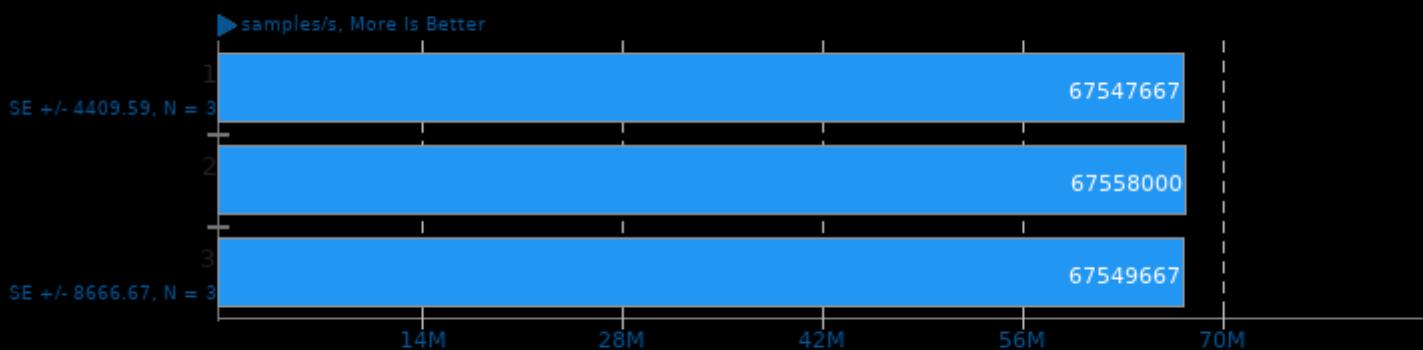
## Timed Erlang/OTP Compilation 23.2

Time To Compile



## Liquid-DSP 2021.01.31

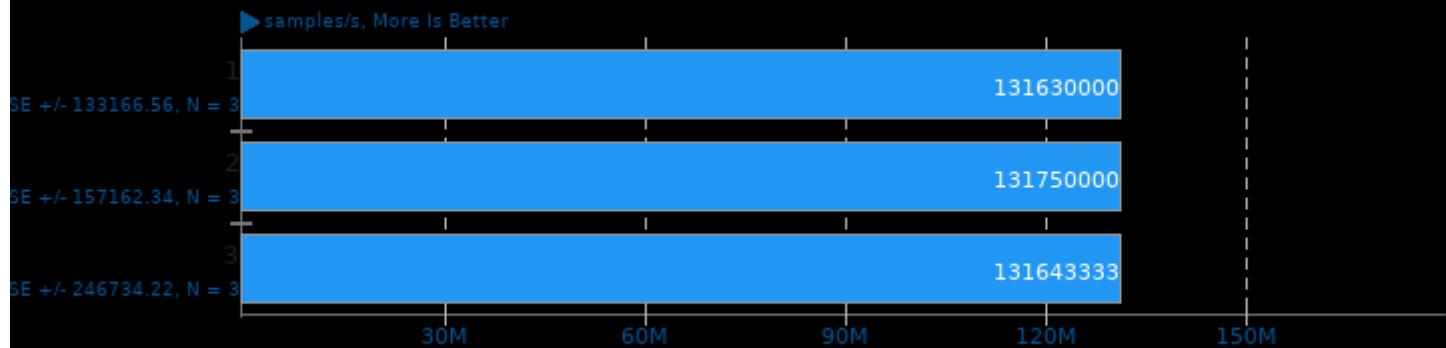
Threads: 1 - Buffer Length: 256 - Filter Length: 57



1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 2021.01.31

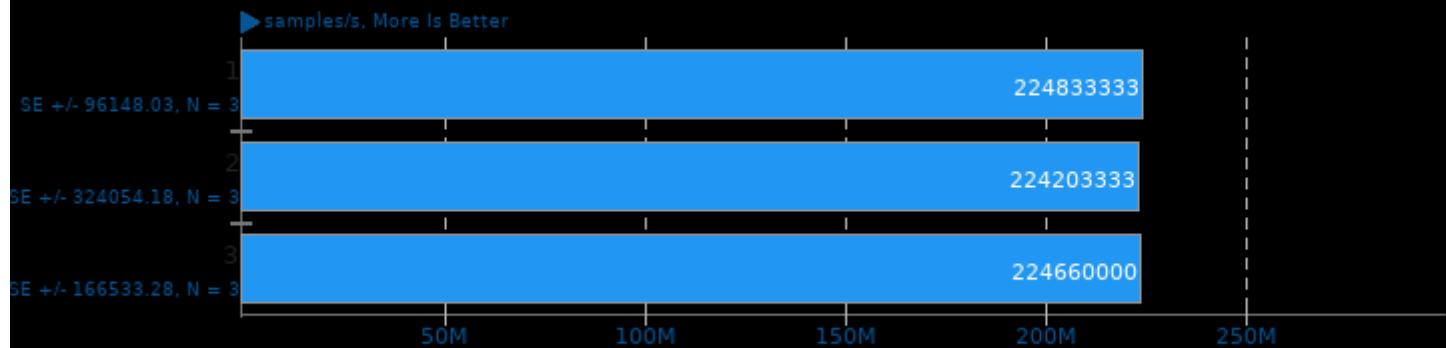
Threads: 2 - Buffer Length: 256 - Filter Length: 57



1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 2021.01.31

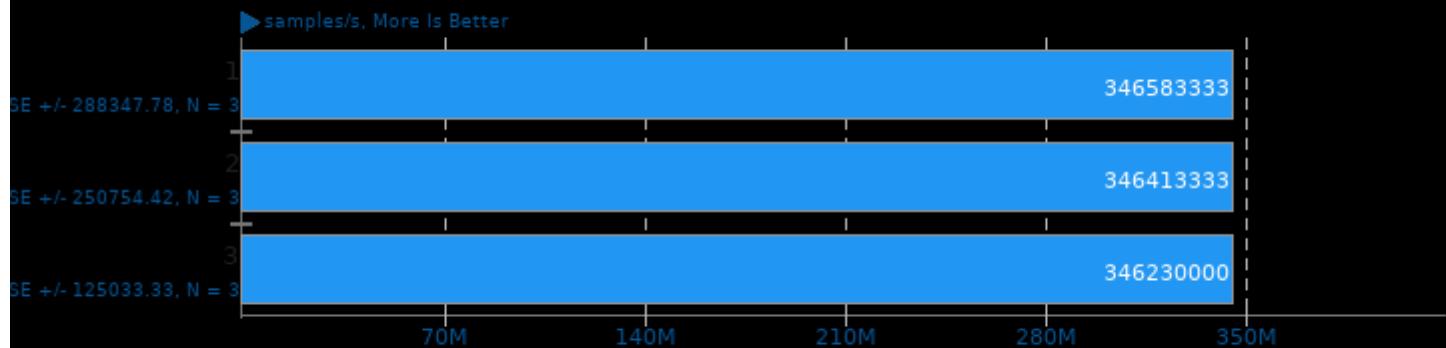
Threads: 4 - Buffer Length: 256 - Filter Length: 57



1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 2021.01.31

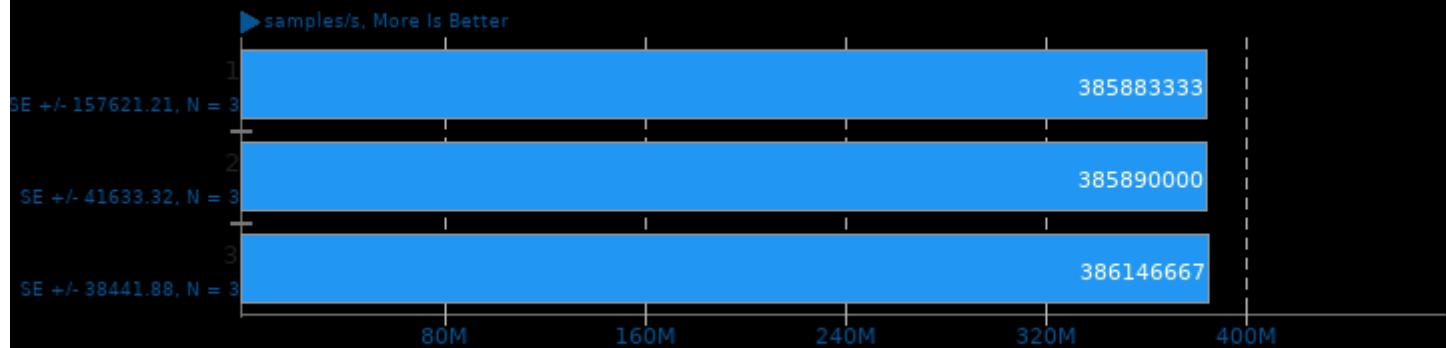
Threads: 8 - Buffer Length: 256 - Filter Length: 57



1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## Liquid-DSP 2021.01.31

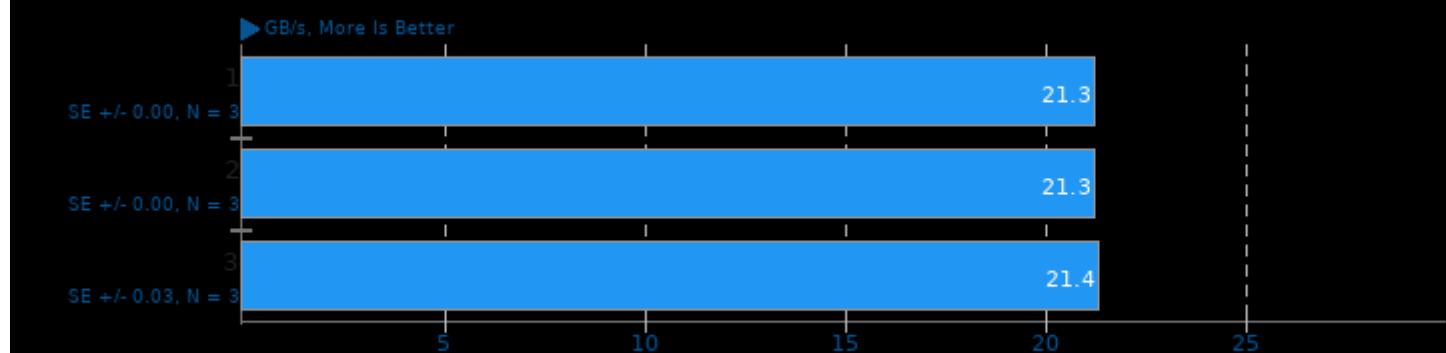
Threads: 12 - Buffer Length: 256 - Filter Length: 57



1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

## ViennaCL 1.7.1

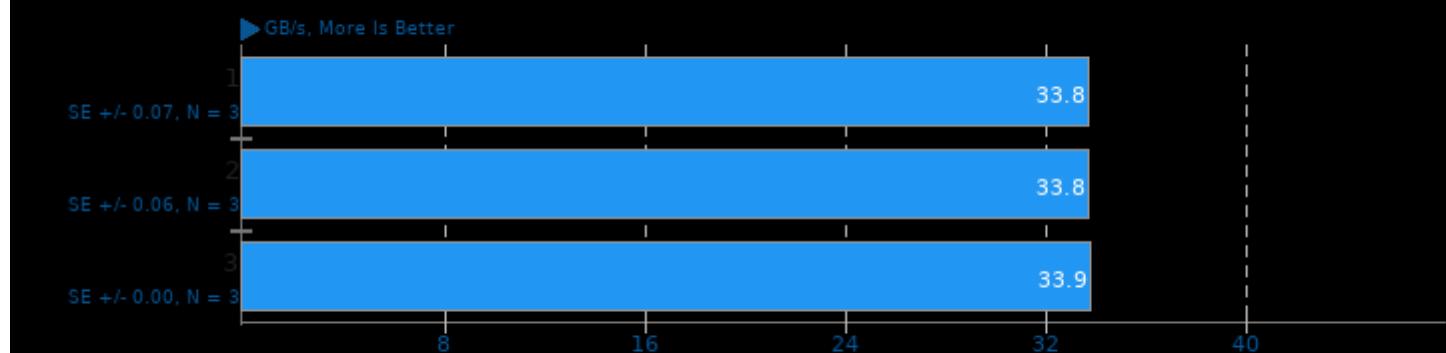
Test: CPU BLAS - sCOPY



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

## ViennaCL 1.7.1

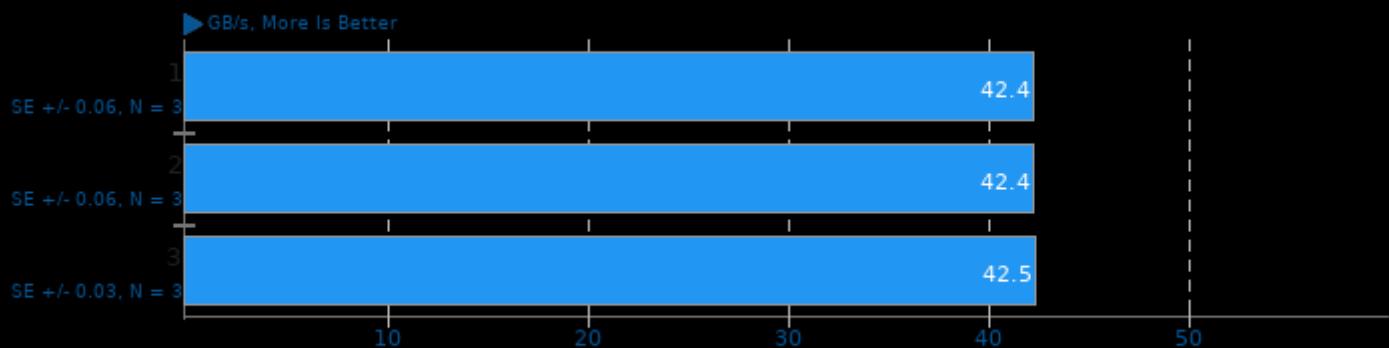
Test: CPU BLAS - sAXPY



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

## ViennaCL 1.7.1

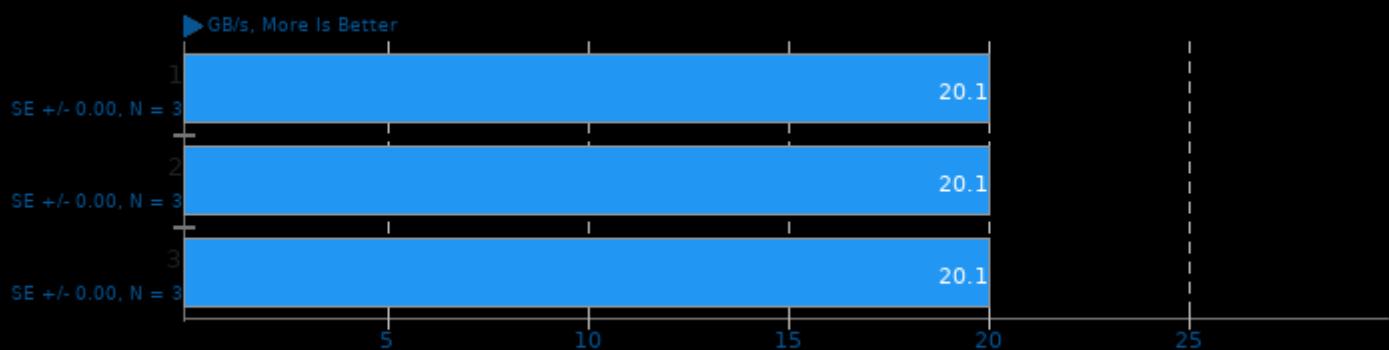
Test: CPU BLAS - sDOT



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

## ViennaCL 1.7.1

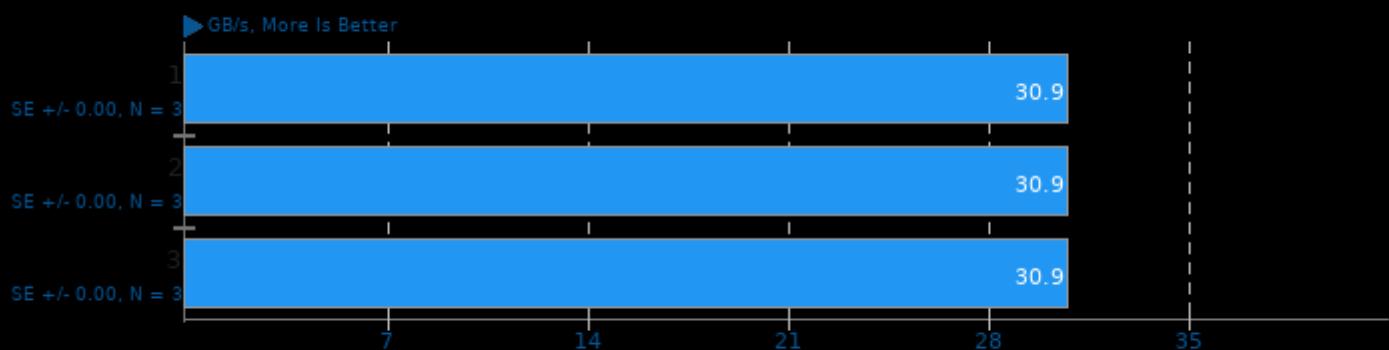
Test: CPU BLAS - dCOPY



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

## ViennaCL 1.7.1

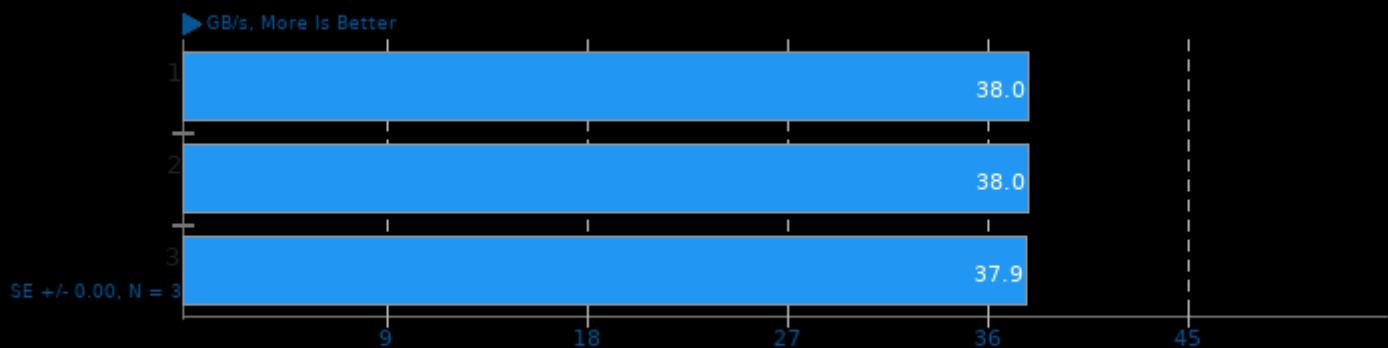
Test: CPU BLAS - dAXPY



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

## ViennaCL 1.7.1

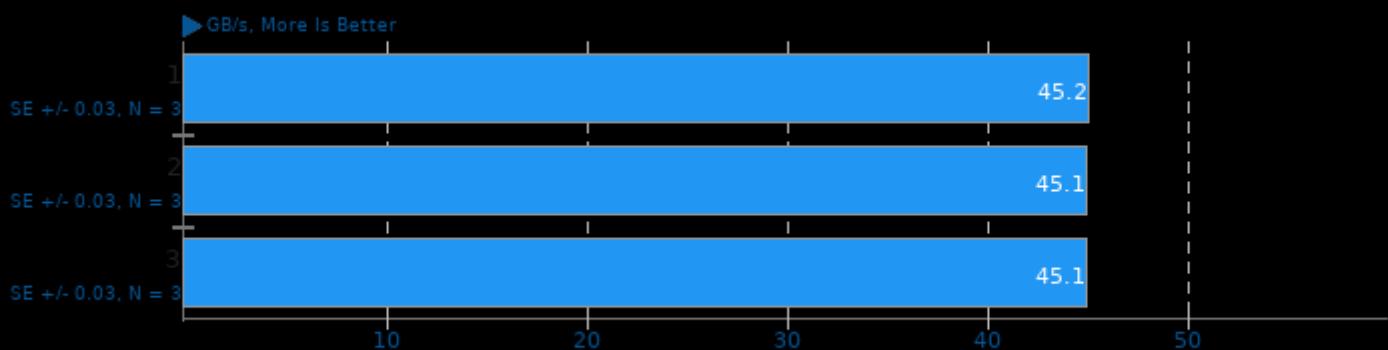
Test: CPU BLAS - dDOT



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

## ViennaCL 1.7.1

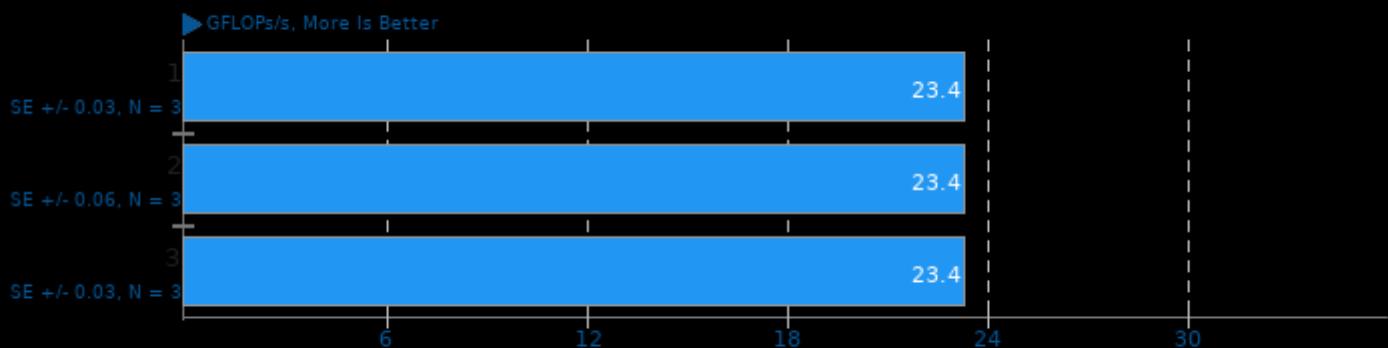
Test: CPU BLAS - dGEMV-N



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

## ViennaCL 1.7.1

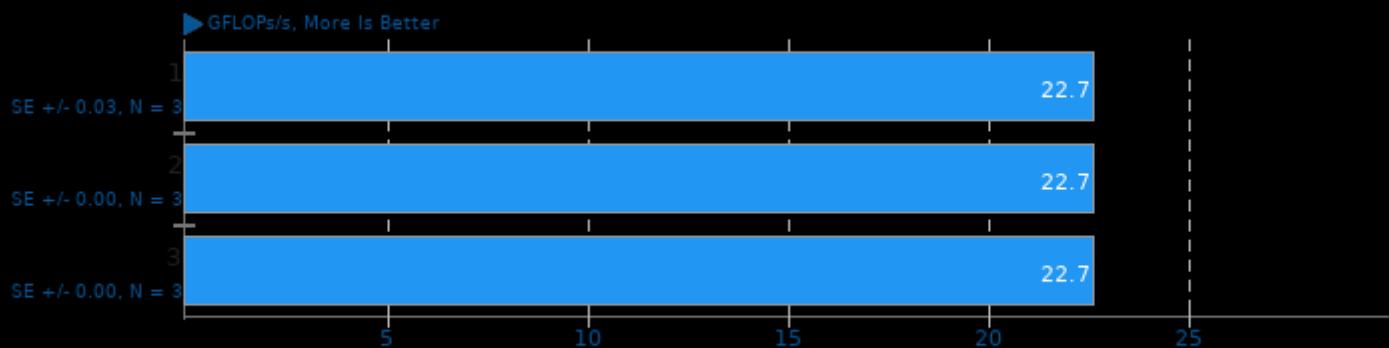
Test: CPU BLAS - dGEMM-NN



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

## ViennaCL 1.7.1

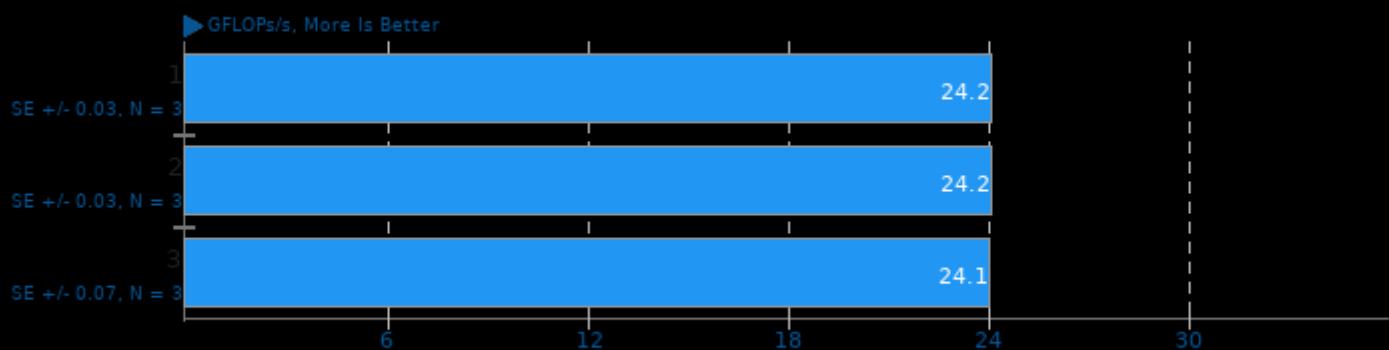
Test: CPU BLAS - dGEMM-NT



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

## ViennaCL 1.7.1

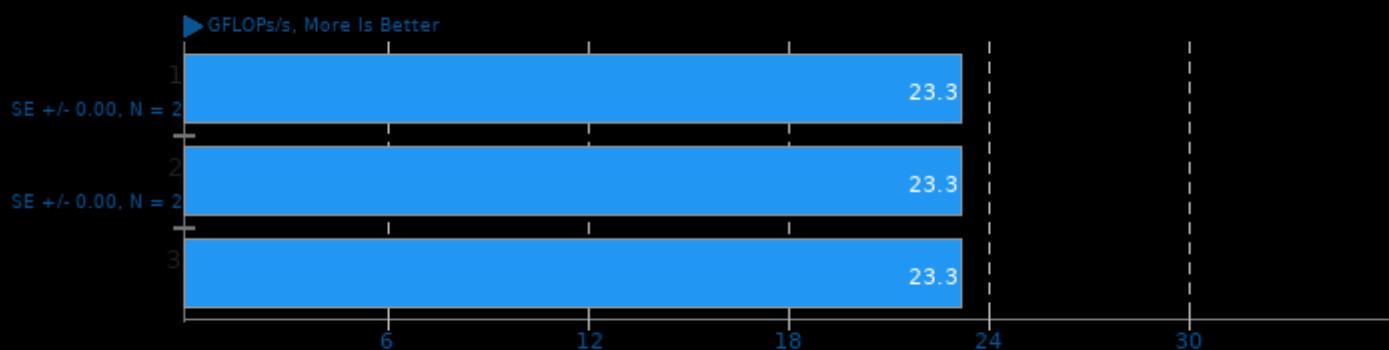
Test: CPU BLAS - dGEMM-TN



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

## ViennaCL 1.7.1

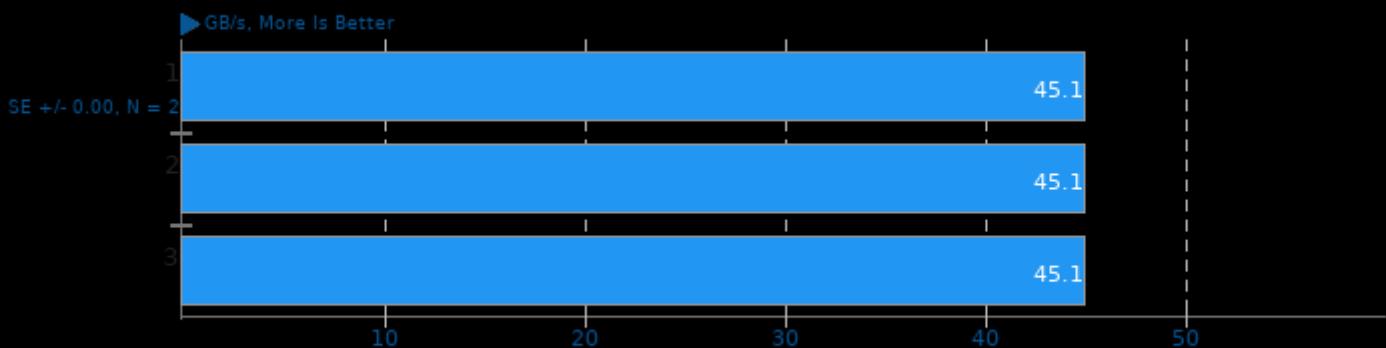
Test: CPU BLAS - dGEMM-TT



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

## ViennaCL 1.7.1

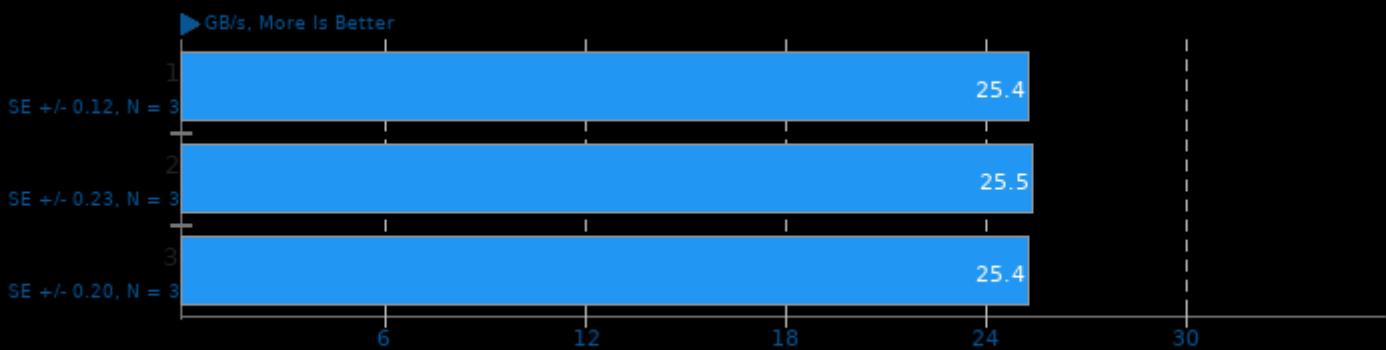
Test: CPU BLAS - dGEMV-T



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

## ViennaCL 1.7.1

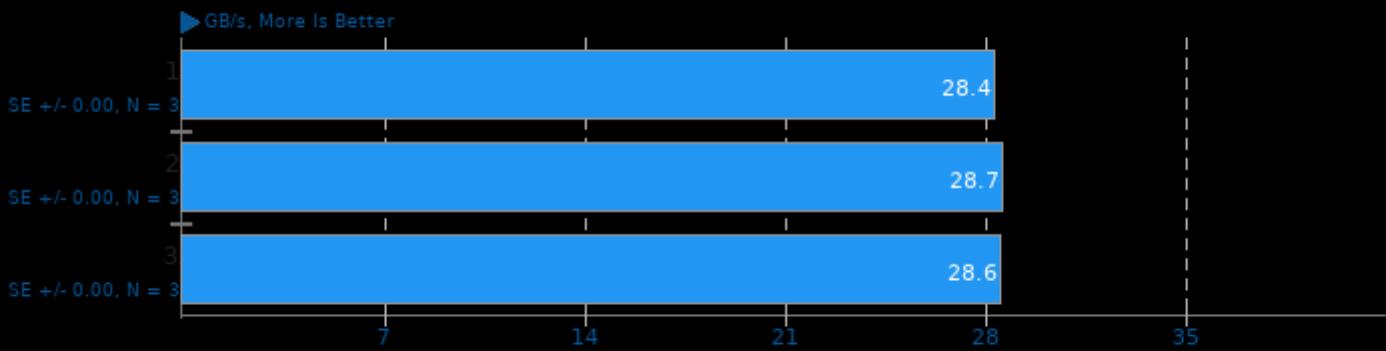
Test: OpenCL BLAS - sCOPY



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

## ViennaCL 1.7.1

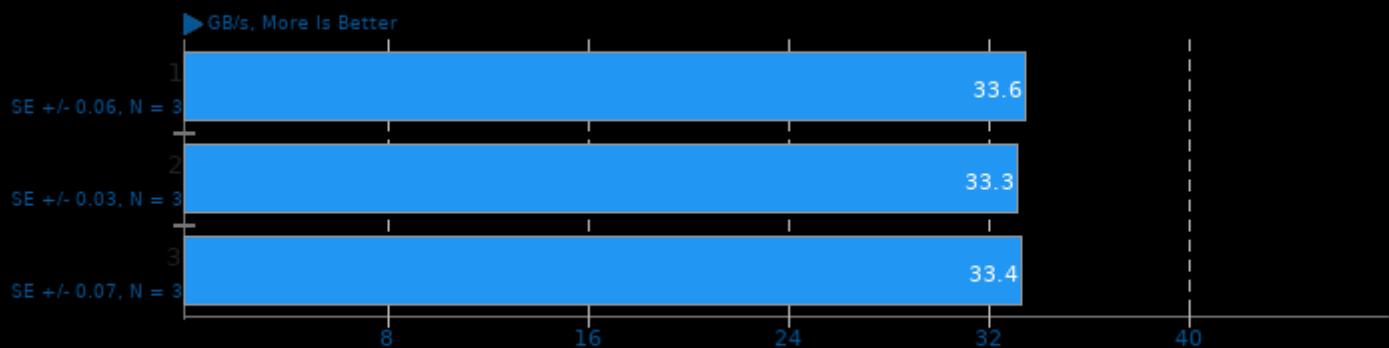
Test: OpenCL BLAS - sAXPY



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

## ViennaCL 1.7.1

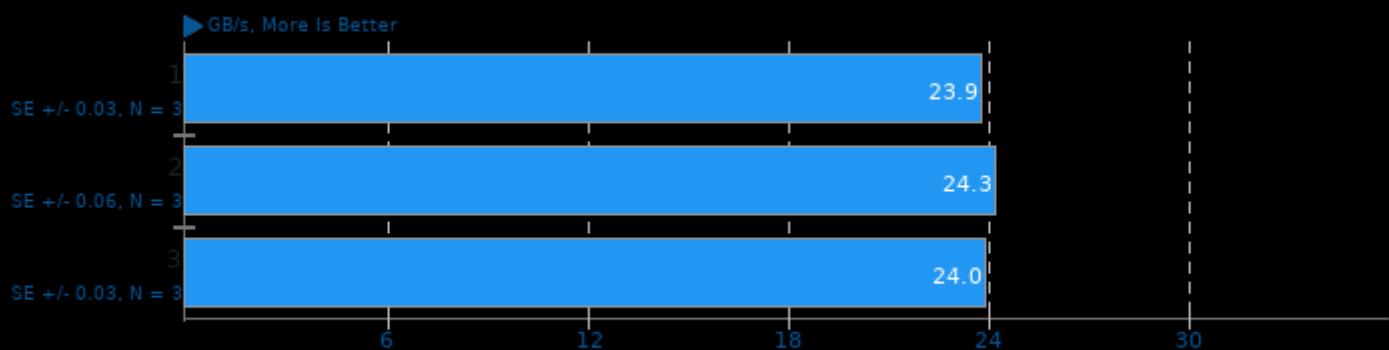
Test: OpenCL BLAS - sDOT



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

## ViennaCL 1.7.1

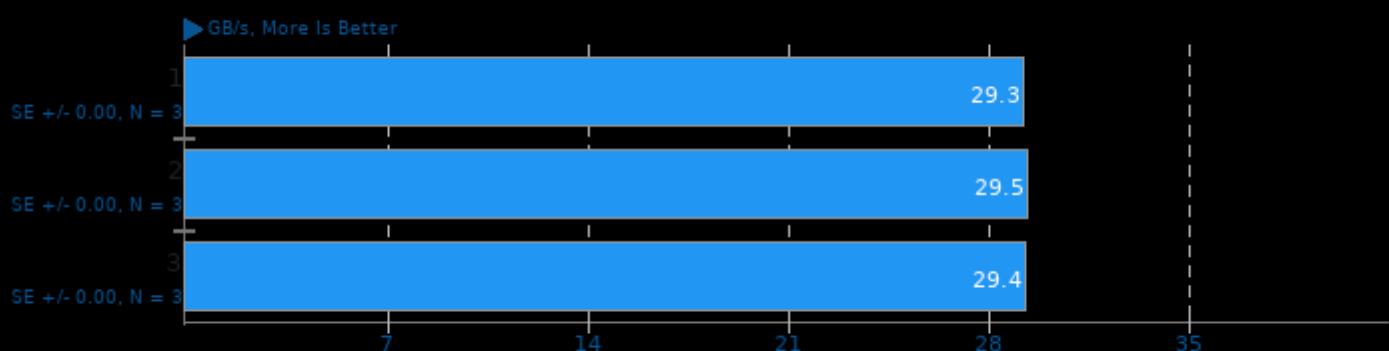
Test: OpenCL BLAS - dCOPY



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

## ViennaCL 1.7.1

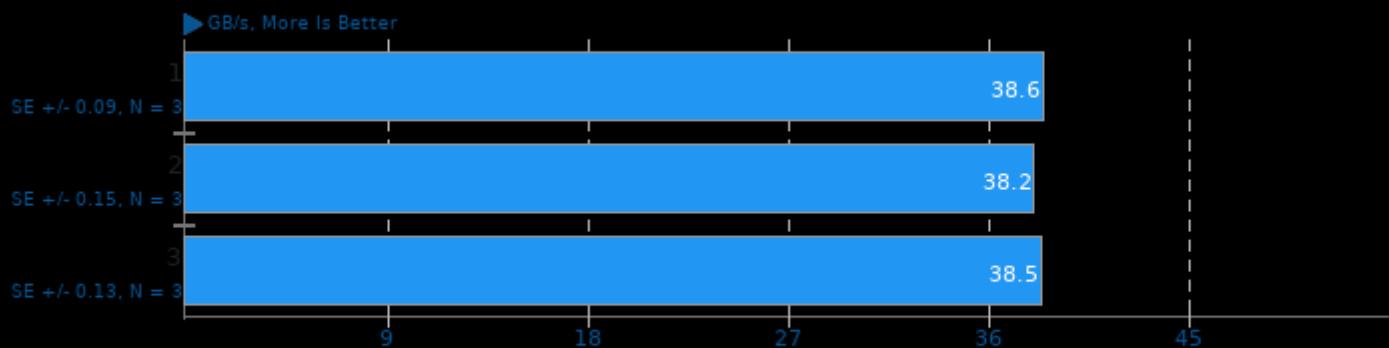
Test: OpenCL BLAS - dAXPY



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

## ViennaCL 1.7.1

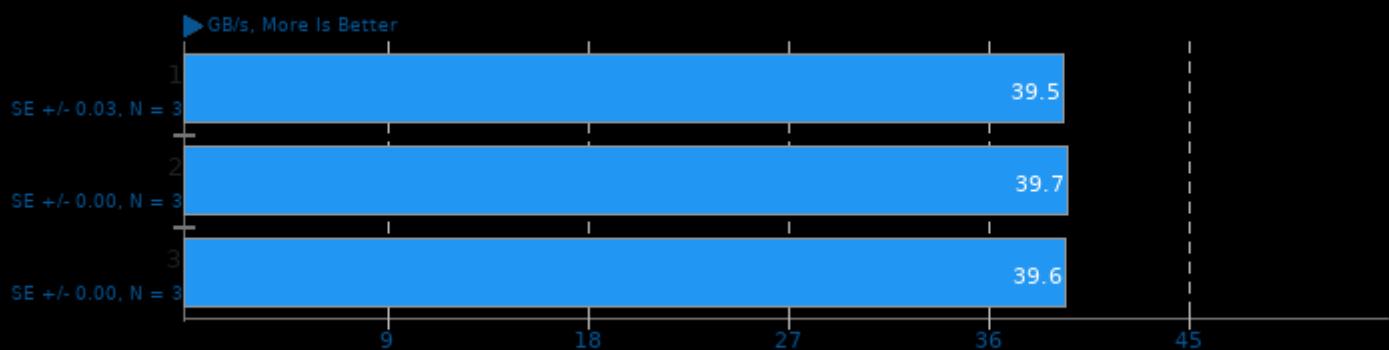
Test: OpenCL BLAS - dDOT



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

## ViennaCL 1.7.1

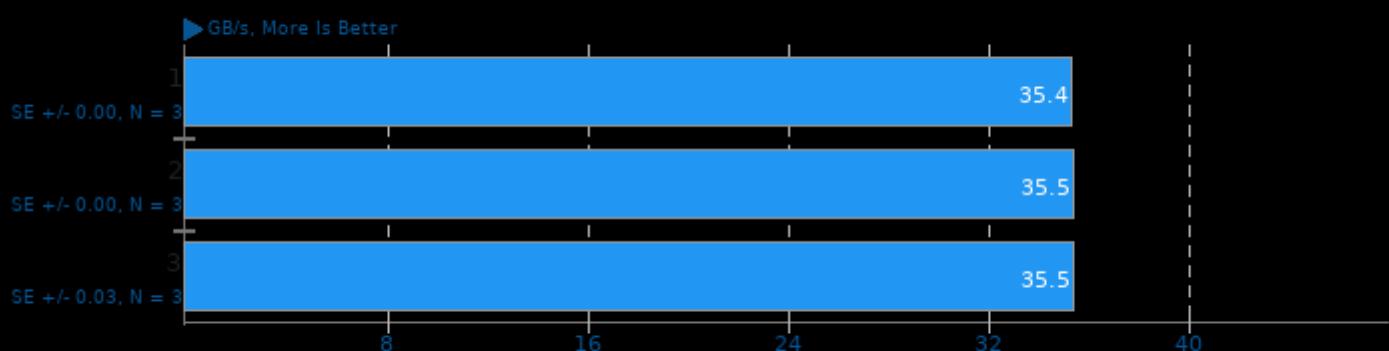
Test: OpenCL BLAS - dGEMV-N



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

## ViennaCL 1.7.1

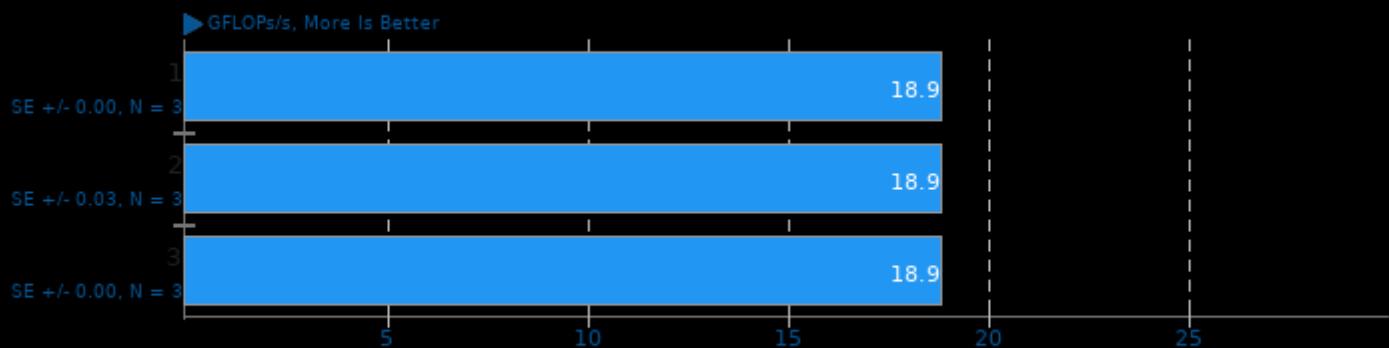
Test: OpenCL BLAS - dGEMV-T



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

## ViennaCL 1.7.1

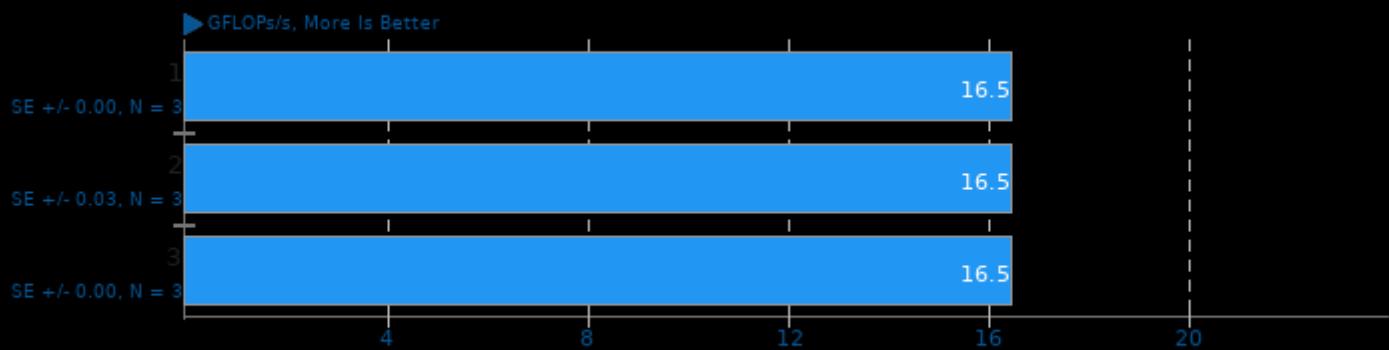
Test: OpenCL BLAS - dGEMM-NN



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

## ViennaCL 1.7.1

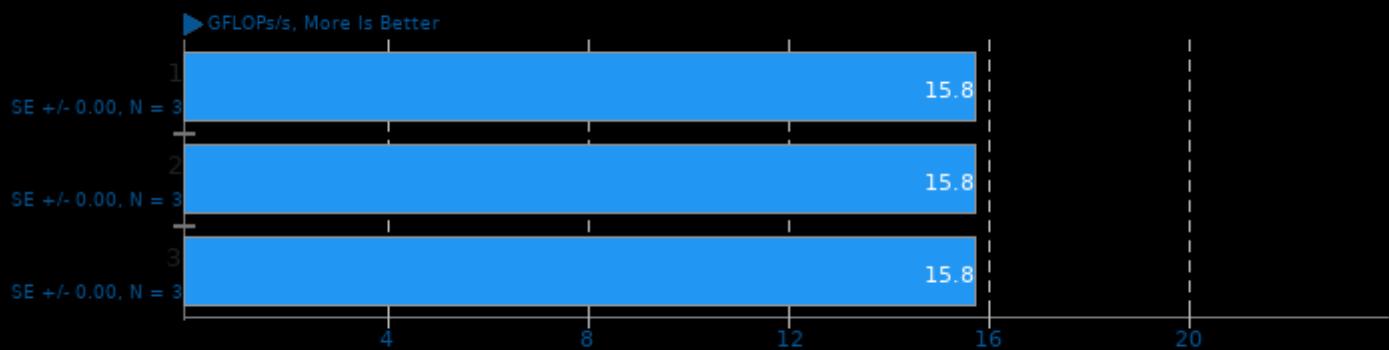
Test: OpenCL BLAS - dGEMM-NT



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

## ViennaCL 1.7.1

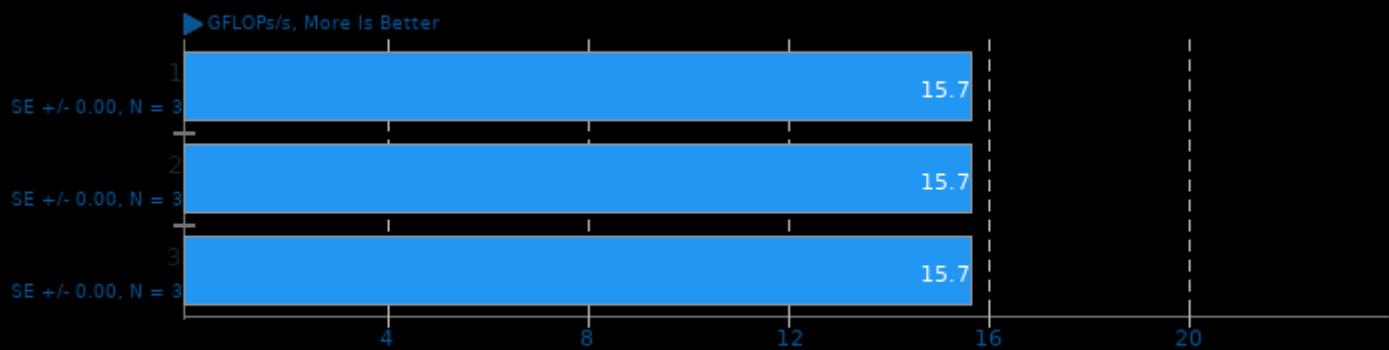
Test: OpenCL BLAS - dGEMM-TN



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

## ViennaCL 1.7.1

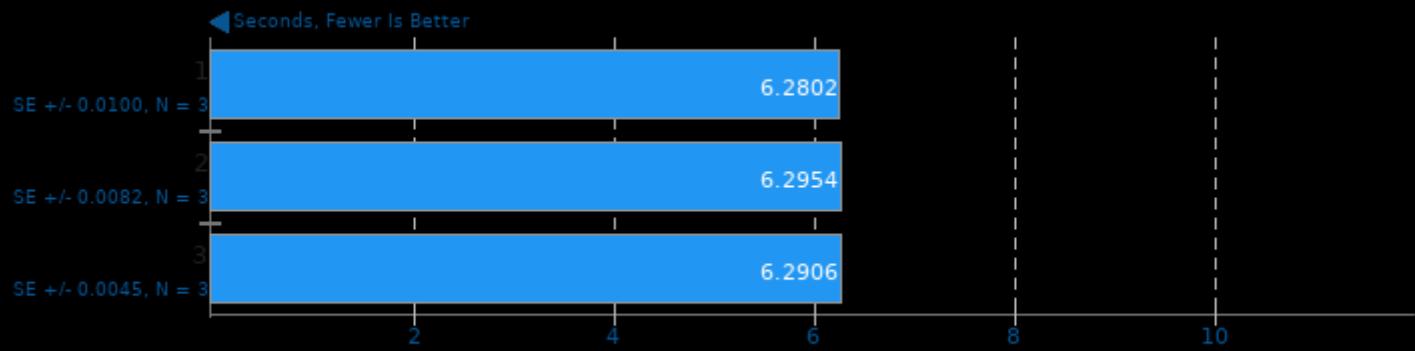
Test: OpenCL BLAS - dGEMM-TT



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

## ASTC Encoder 2.4

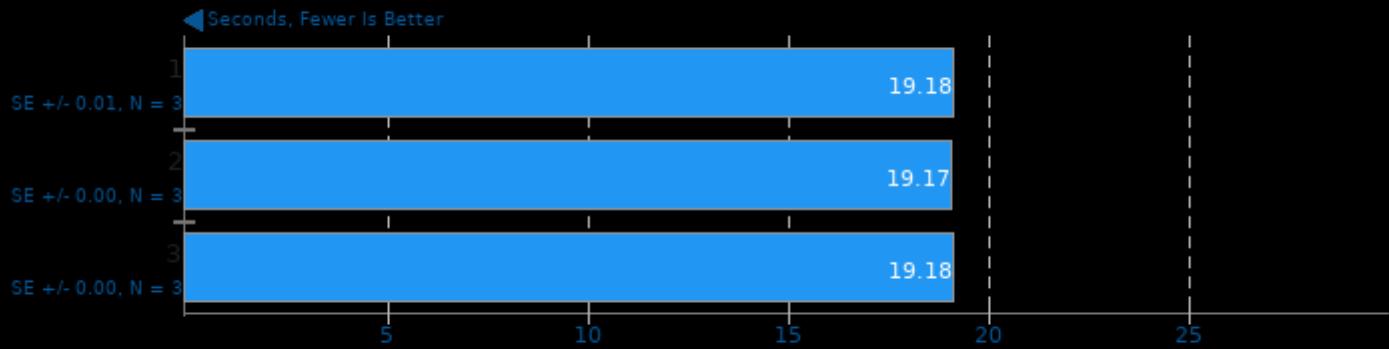
Preset: Medium



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

## ASTC Encoder 2.4

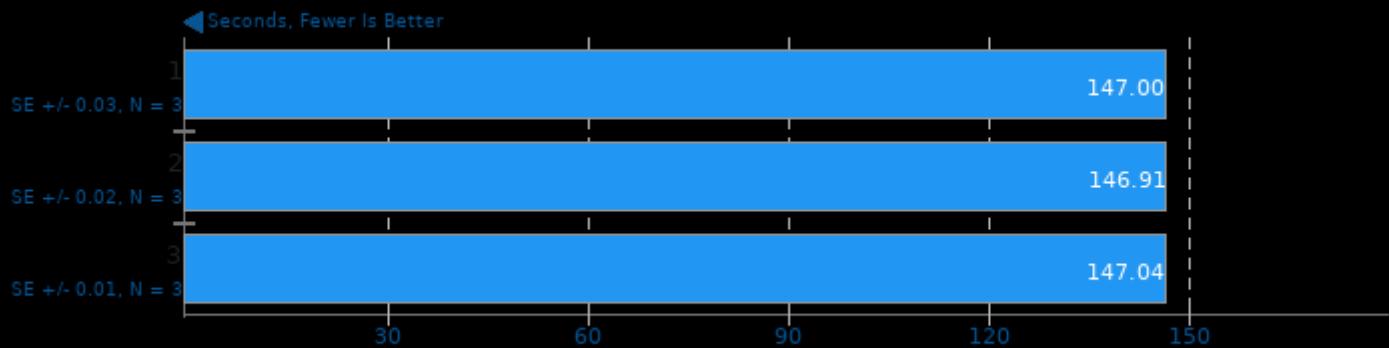
Preset: Thorough



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

## ASTC Encoder 2.4

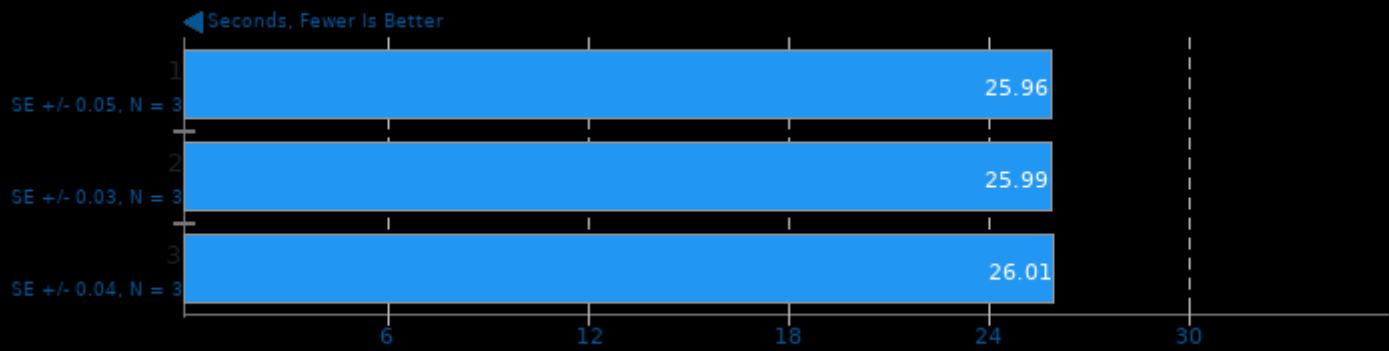
Preset: Exhaustive



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

## Basis Universal 1.13

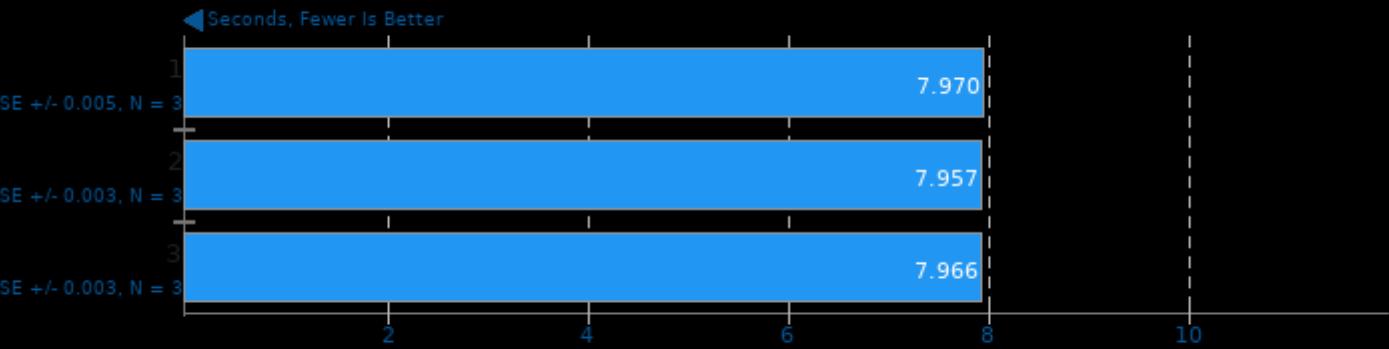
Settings: ETC1S



1. (CXX) g++ options: -std=c++11 -fvisibility=hidden -fPIC -fno-strict-aliasing -O3 -rdynamic -lm -lpthread

## Basis Universal 1.13

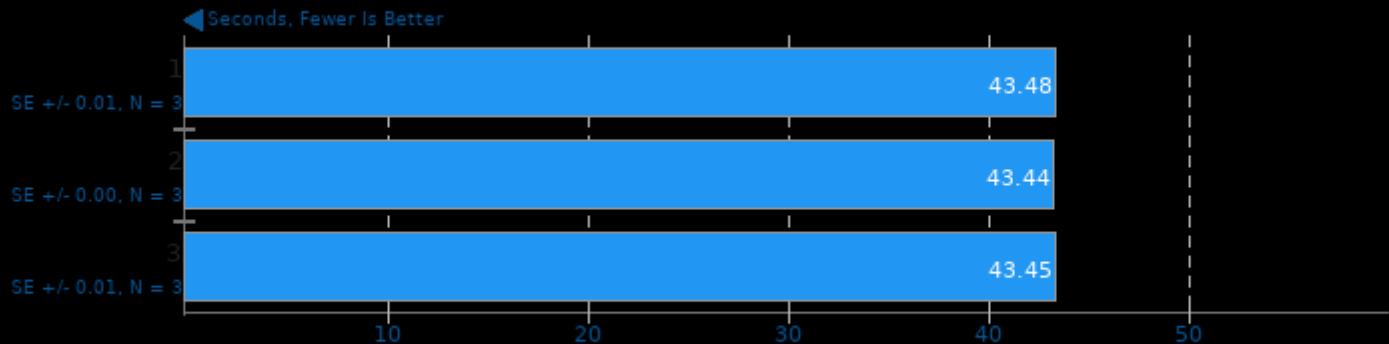
Settings: UASTC Level 0



1. (CXX) g++ options: -std=c++11 -fvisibility=hidden -fPIC -fno-strict-aliasing -O3 -rdynamic -lm -lpthread

## Basis Universal 1.13

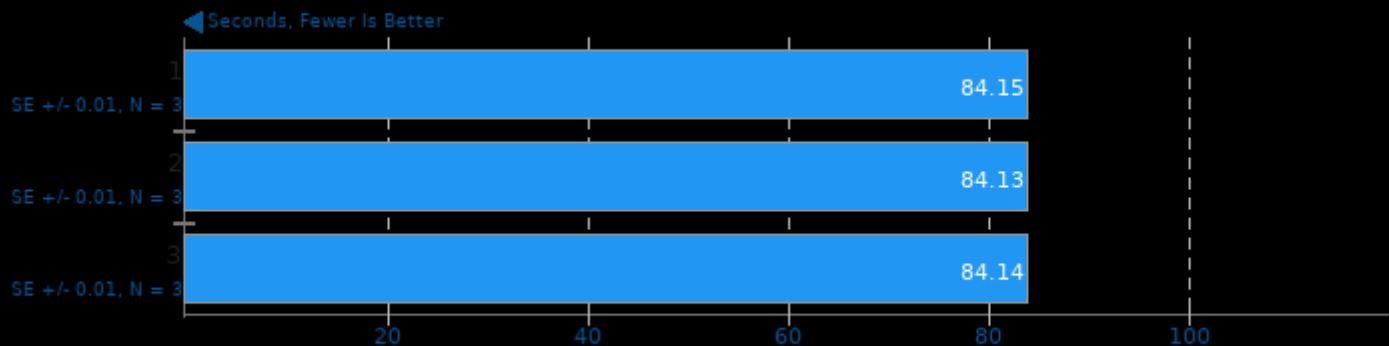
Settings: UASTC Level 2



1. (CXX) g++ options: -std=c++11 -fvisibility=hidden -fPIC -fno-strict-aliasing -O3 -rdynamic -lm -lpthread

## Basis Universal 1.13

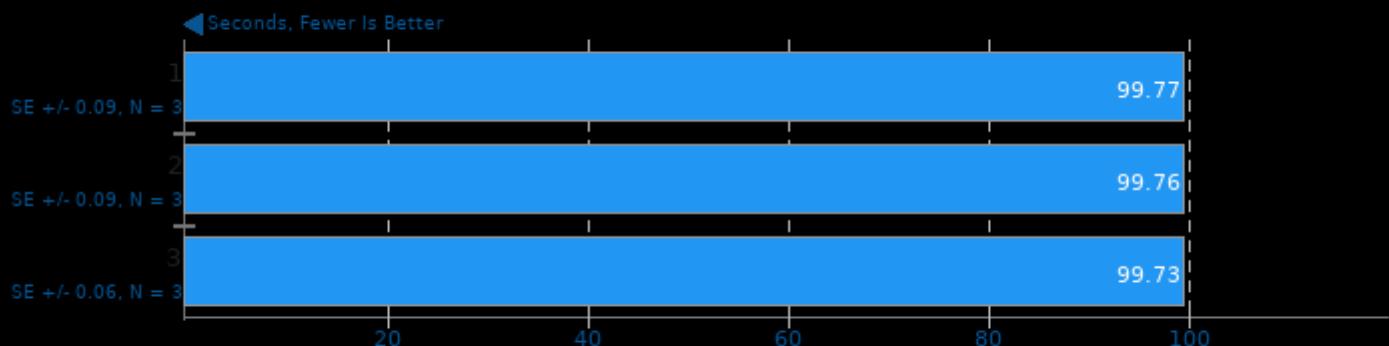
Settings: UASTC Level 3



1. (CXX) g++ options: -std=c++11 -fvisibility=hidden -fPIC -fno-strict-aliasing -O3 -rdynamic -lm -lpthread

## OpenSCAD

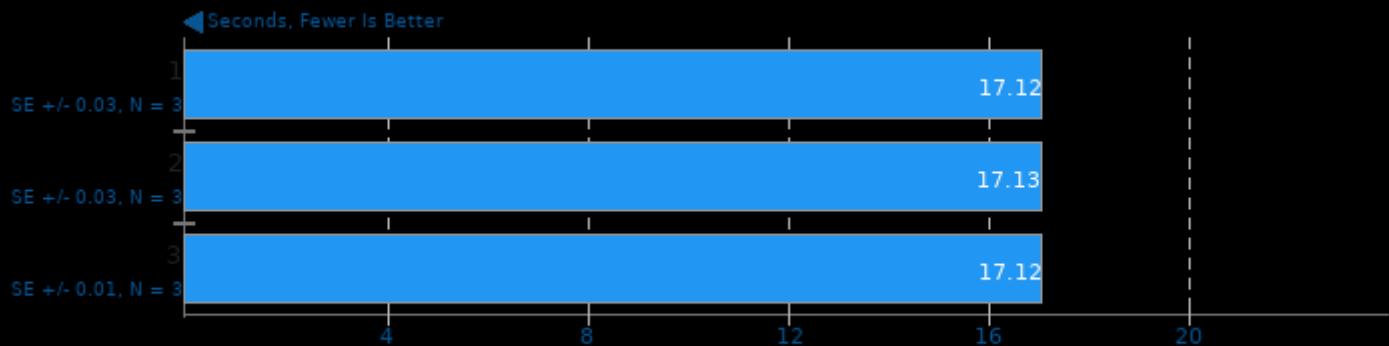
Render: Pistol



1. OpenSCAD version 2019.05

## OpenSCAD

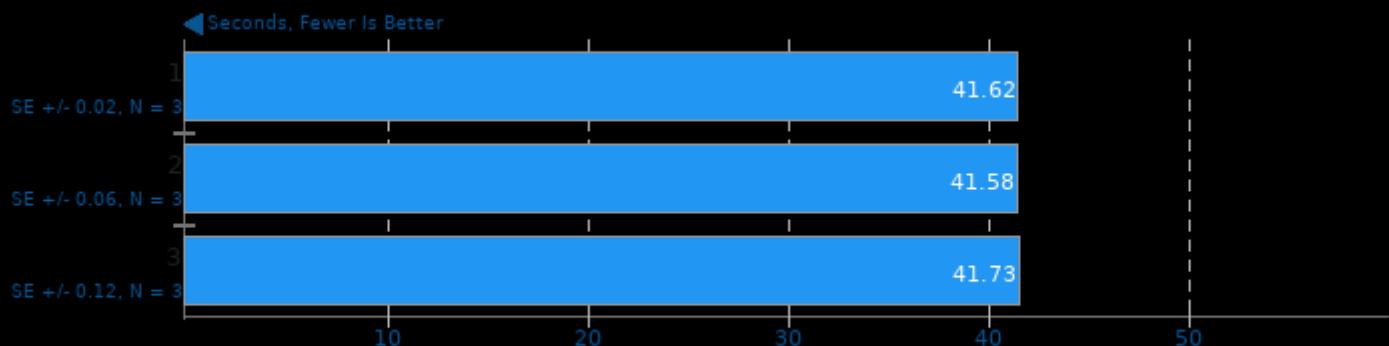
Render: Retro Car



1. OpenSCAD version 2019.05

## OpenSCAD

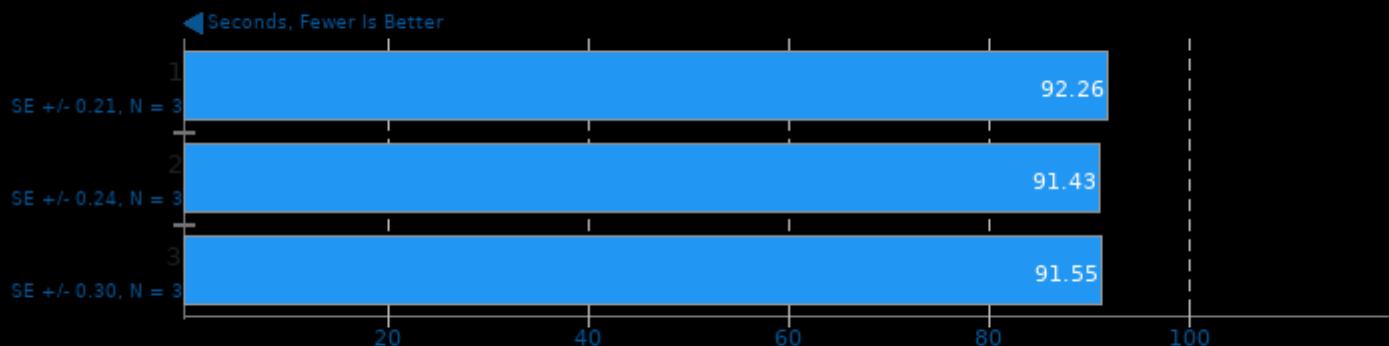
Render: Mini-ITX Case



1. OpenSCAD version 2019.05

## OpenSCAD

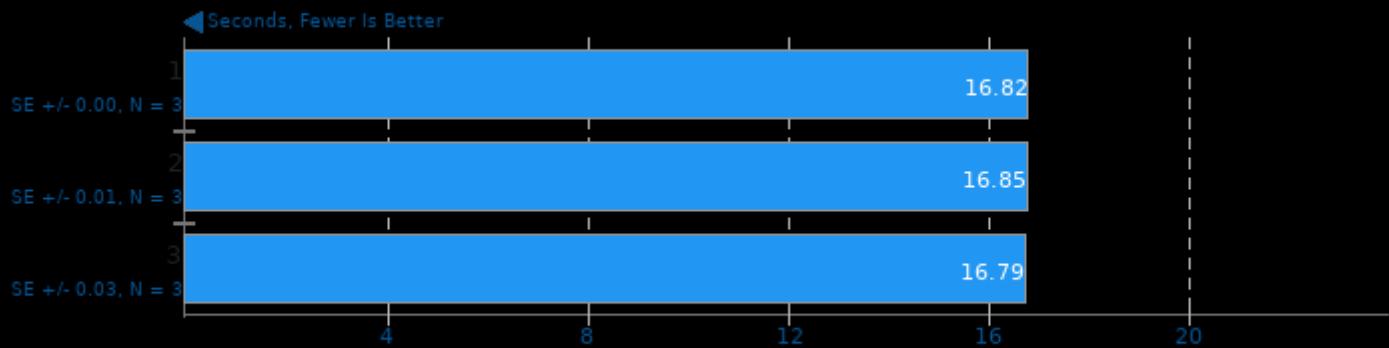
Render: Projector Mount Swivel



1. OpenSCAD version 2019.05

## OpenSCAD

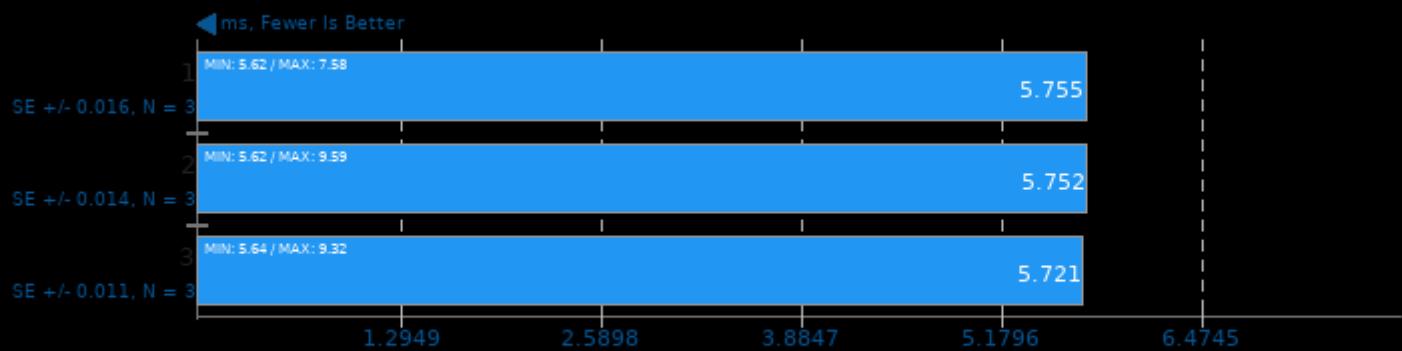
Render: Leonardo Phone Case Slim



1. OpenSCAD version 2019.05

## Mobile Neural Network 1.1.3

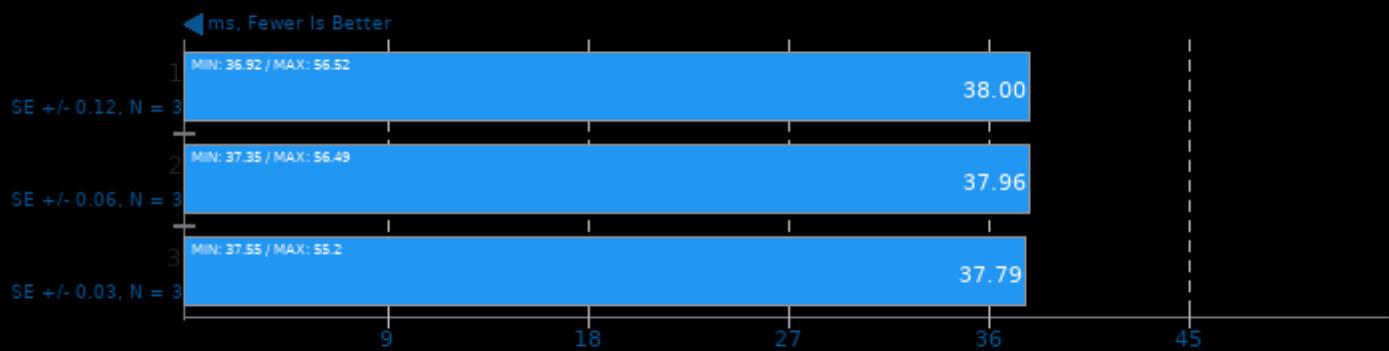
Model: SqueezeNetV1.0



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 1.1.3

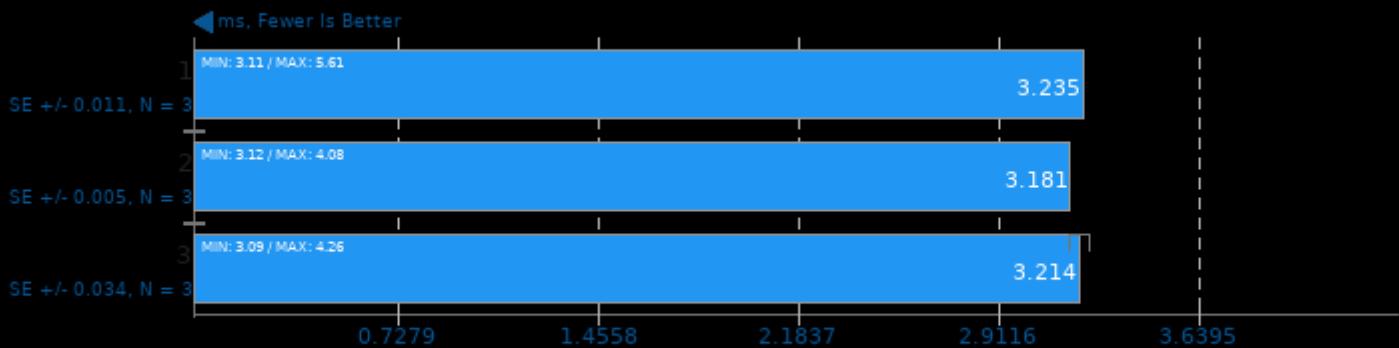
Model: resnet-v2-50



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 1.1.3

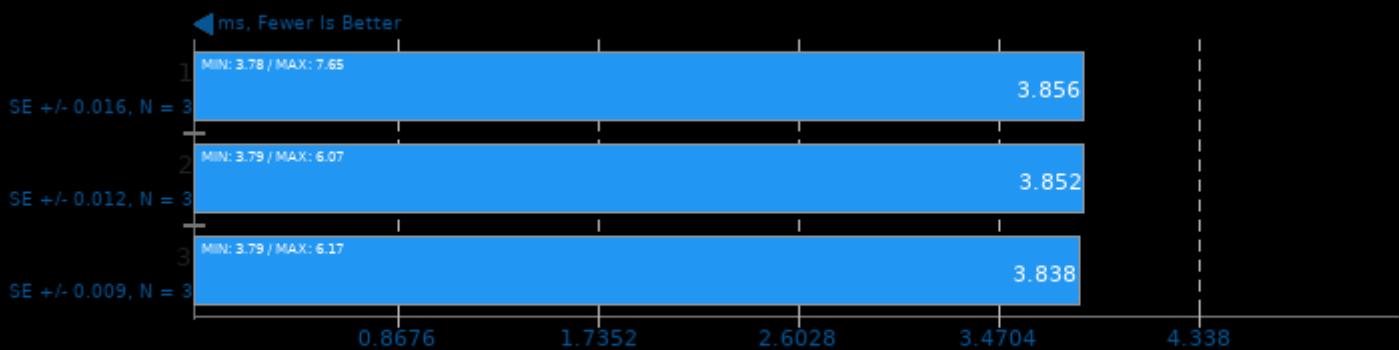
Model: MobileNetV2\_224



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

## Mobile Neural Network 1.1.3

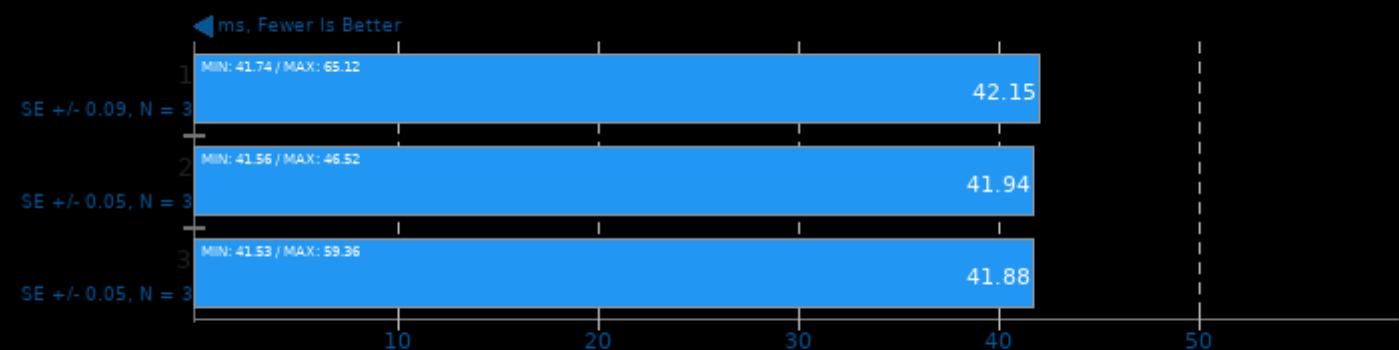
Model: mobilenet-v1-1.0



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 1.1.3

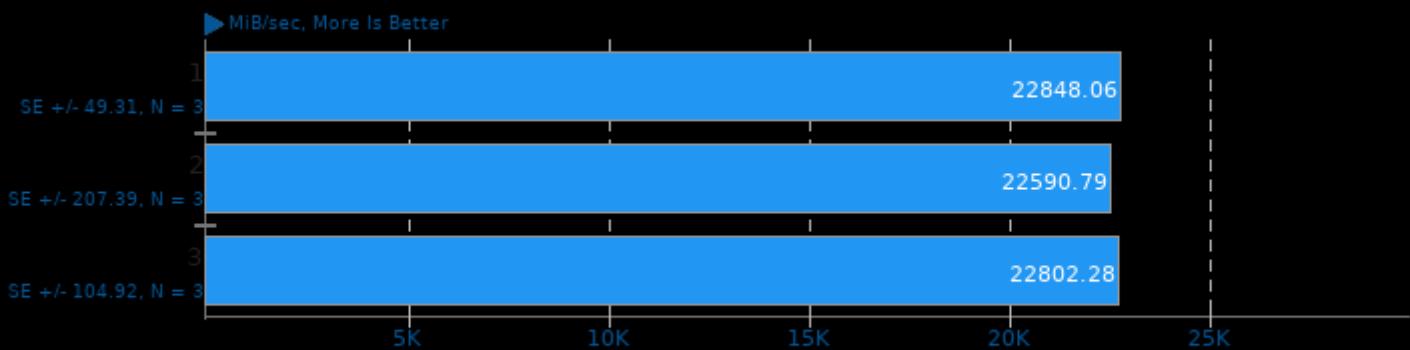
Model: inception-v3



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

## Sysbench 1.0.20

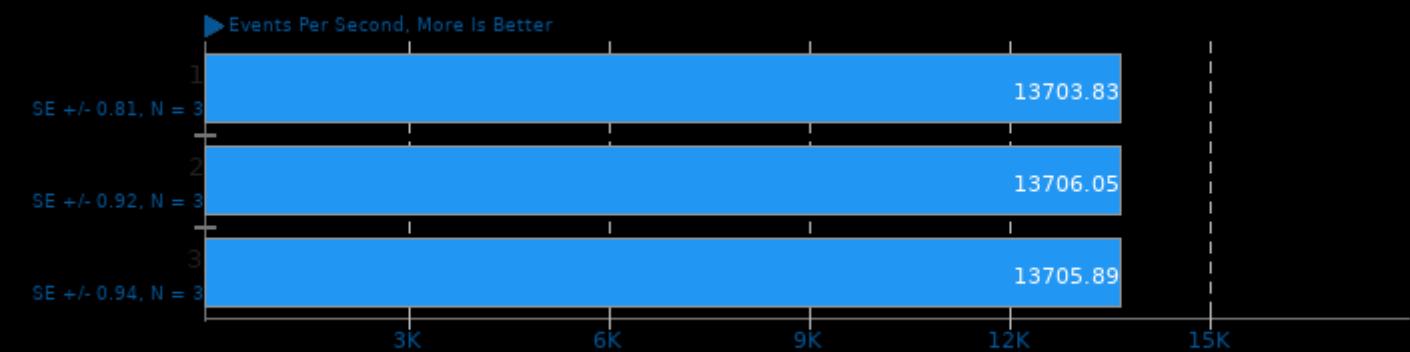
Test: RAM / Memory



1. (CC) gcc options: -pthread -O2 -funroll-loops -rdynamic -ldl -laio -lm

## Sysbench 1.0.20

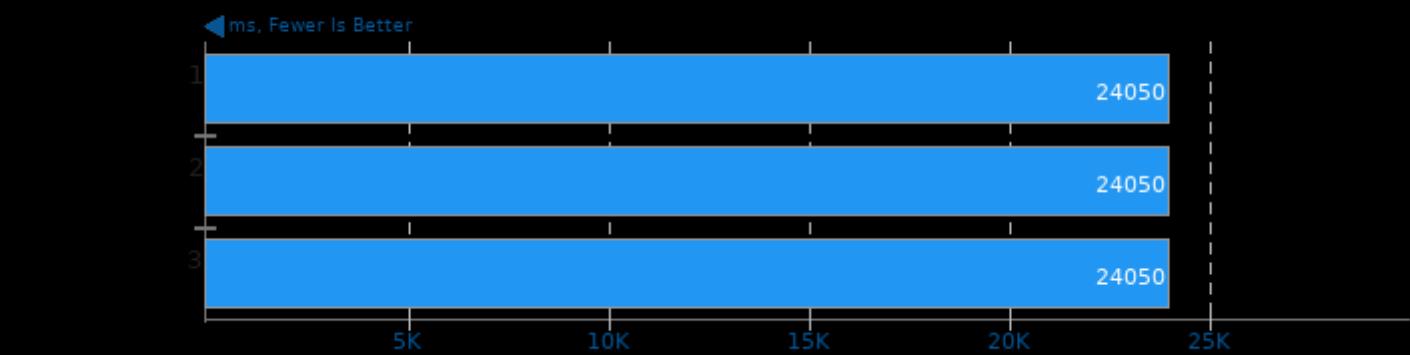
Test: CPU



1. (CC) gcc options: -pthread -O2 -funroll-loops -rdynamic -ldl -laio -lm

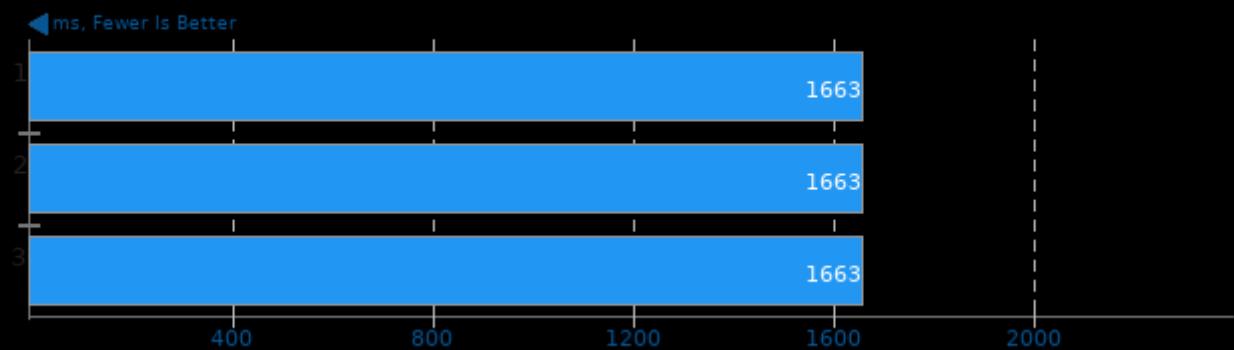
## Systemd Total Boot Time

Test: Total



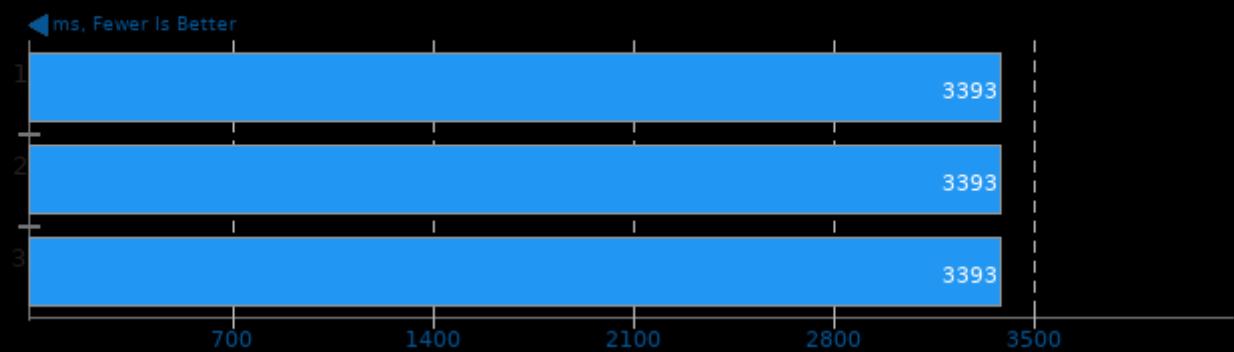
## Systemd Total Boot Time

Test: Kernel



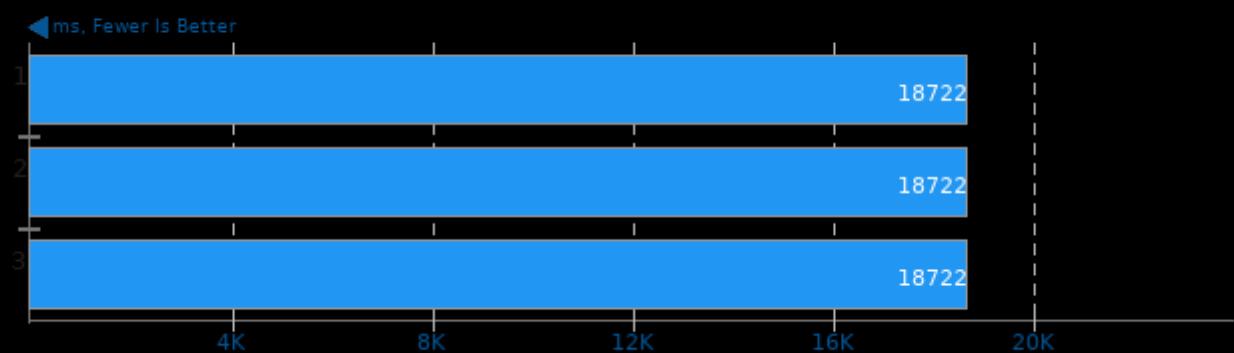
## Systemd Total Boot Time

Test: Loader



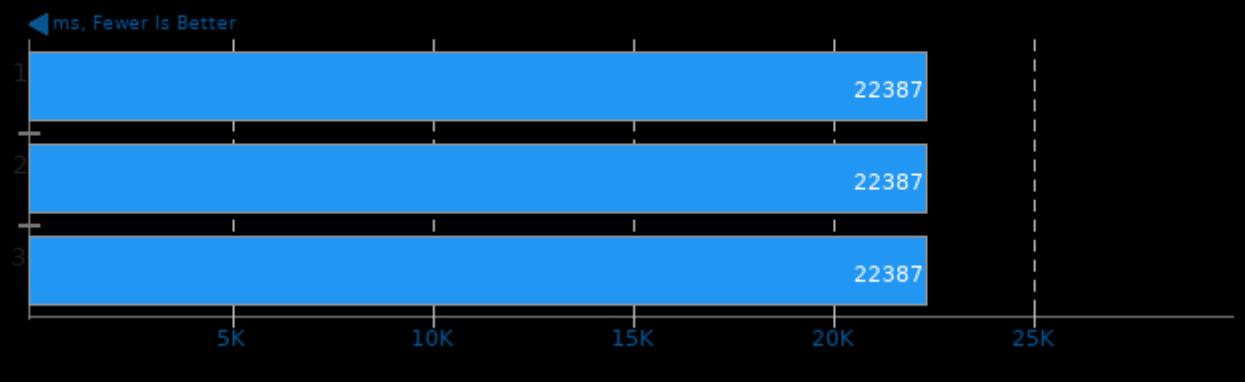
## Systemd Total Boot Time

Test: Firmware



## Systemd Total Boot Time

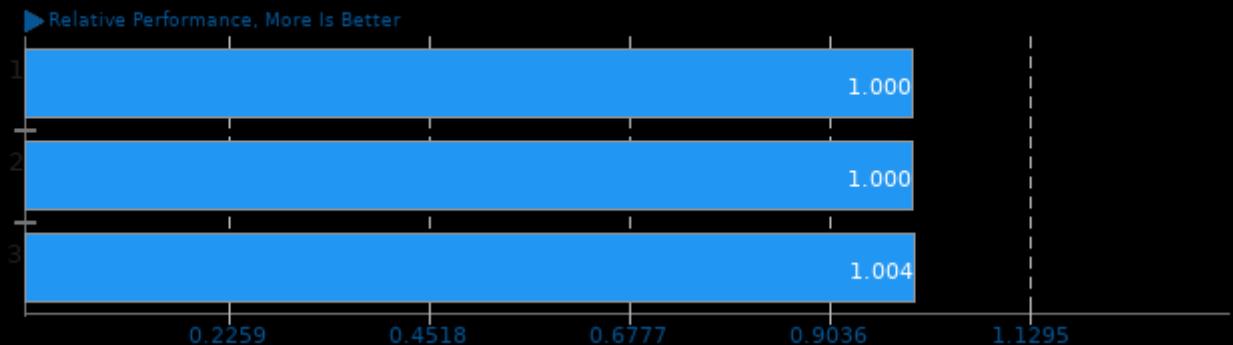
Test: Userspace



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

### Geometric Mean Of AV1 Tests

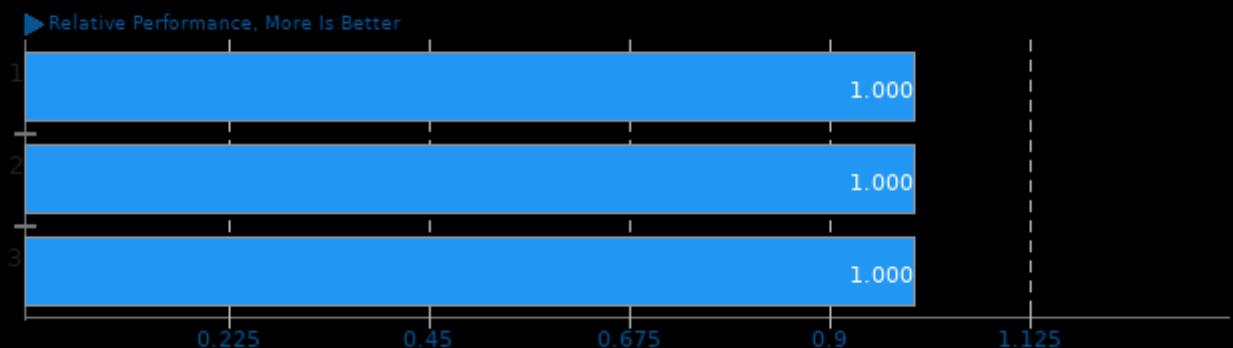
Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/dav1d, pts/aom-av1 and pts/avifenc

### Geometric Mean Of Timed Code Compilation Tests

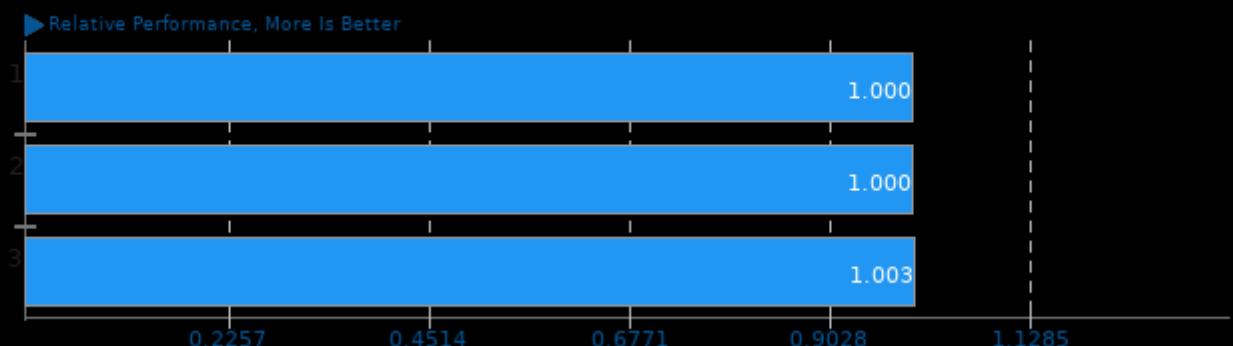
Result Composite - 8086K April 2021



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

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

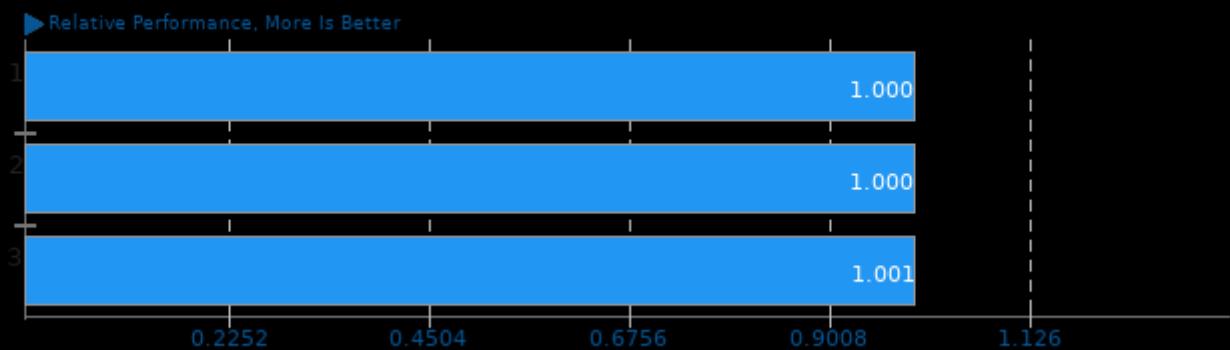
Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/stockfish, pts/dav1d, pts/compress-zstd, pts/aom-av1, pts/svt-vp9 and pts/basis

## Geometric Mean Of CPU Massive Tests

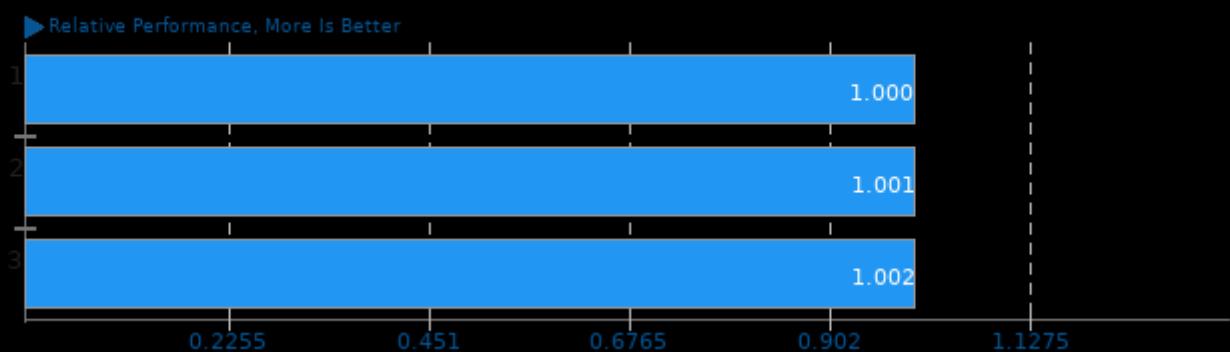
Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/build-linux-kernel, pts/compress-zstd, pts/dav1d, pts/svt-hevc, pts/svt-vp9, pts/onnednn, pts/stockfish, pts/sysbench and pts/botan

## Geometric Mean Of Creator Workloads Tests

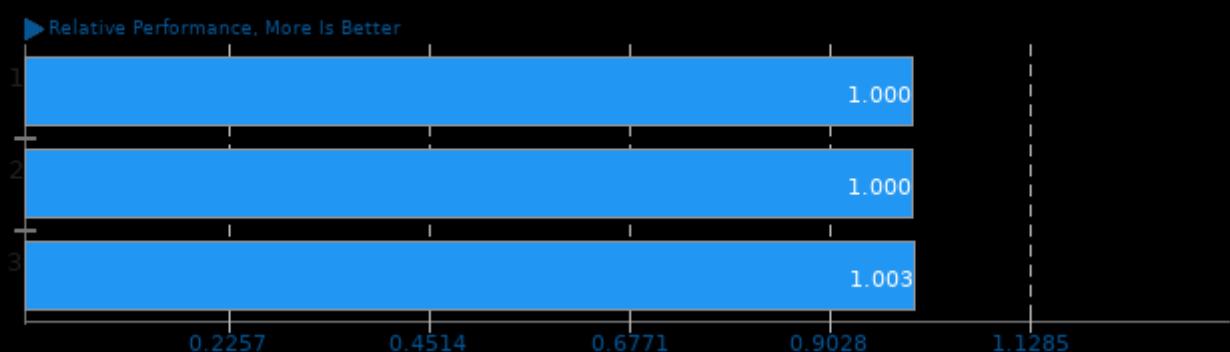
Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/svt-vp9, pts/svt-hevc, pts/dav1d, pts/aom-av1, pts/avifenc, pts/onnednn, pts/basis, pts/astcenc and system/openscad

## Geometric Mean Of Encoding Tests

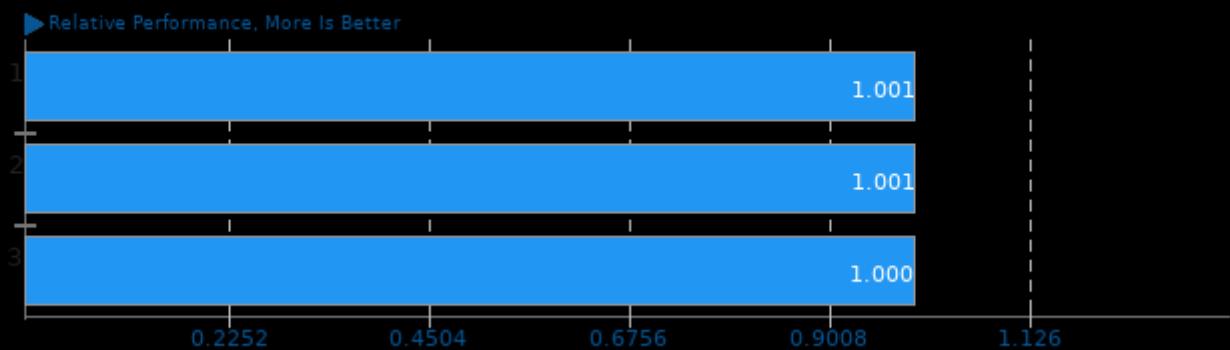
Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/svt-vp9, pts/svt-hevc, pts/dav1d, pts/aom-av1 and pts/avifenc

## Geometric Mean Of Game Development Tests

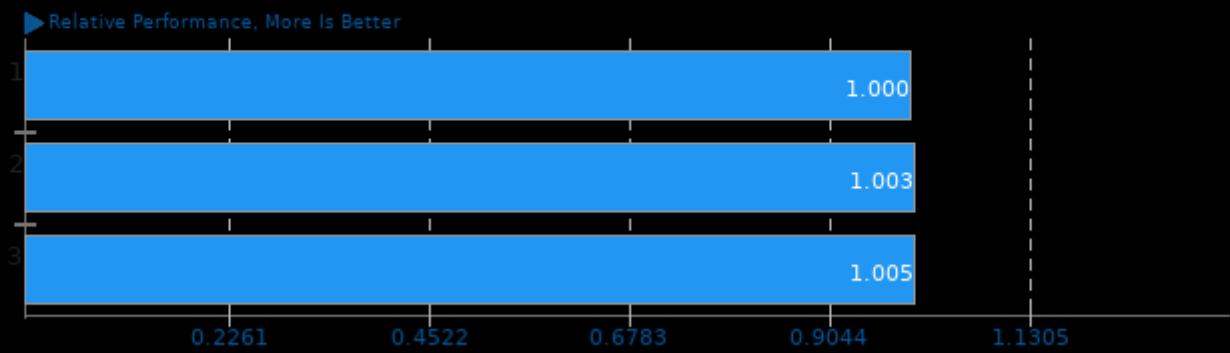
Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/basis and pts/astcenc

## Geometric Mean Of HPC - High Performance Computing Tests

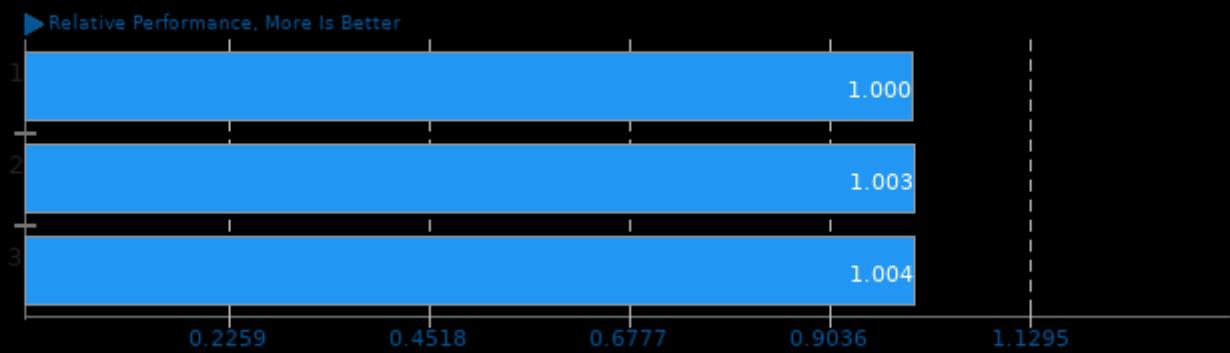
Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/incompact3d, pts/mnn, pts/shoc and pts/onnednn

## Geometric Mean Of Machine Learning Tests

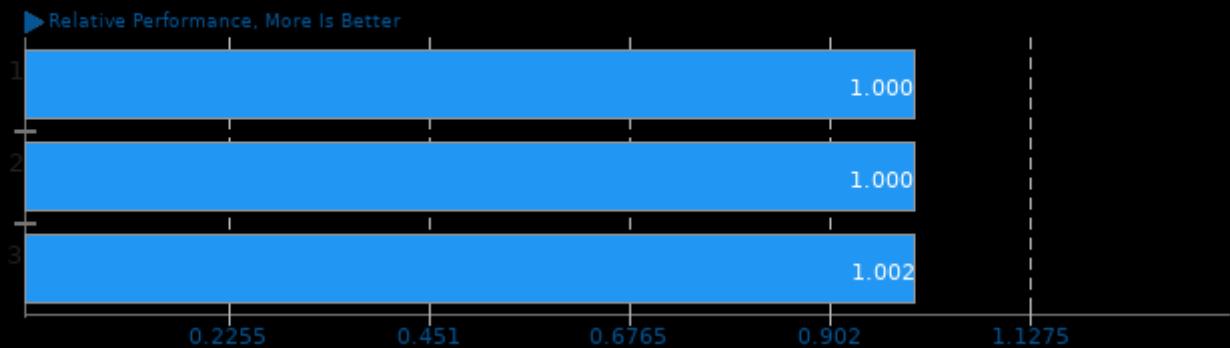
Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/mnn, pts/shoc and pts/onnednn

## Geometric Mean Of Multi-Core Tests

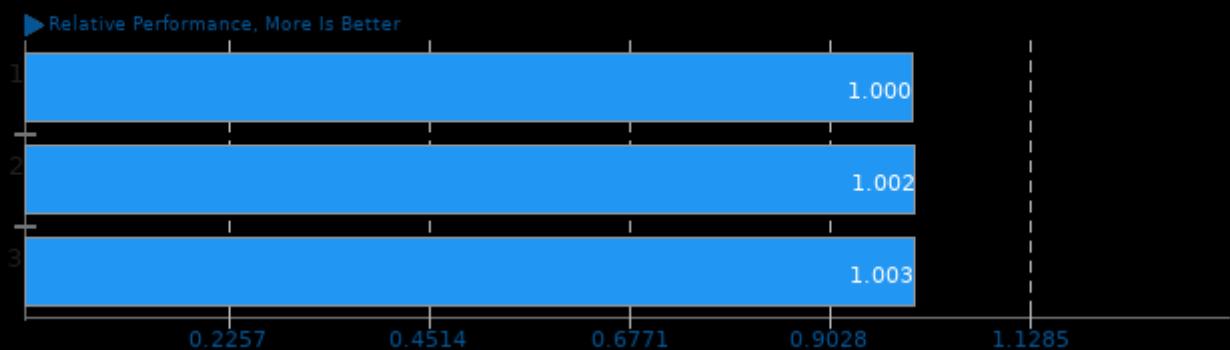
Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/sysbench, pts/stockfish, pts/svt-vp9, pts/svt-hevc, pts/dav1d, pts/aom-av1, pts/avifenc, pts/oneden, pts/compress-zstd, pts/build-linux-kernel, pts/build-erlang, pts/build-nodejs and pts/build-mesa

## Geometric Mean Of NVIDIA GPU Compute Tests

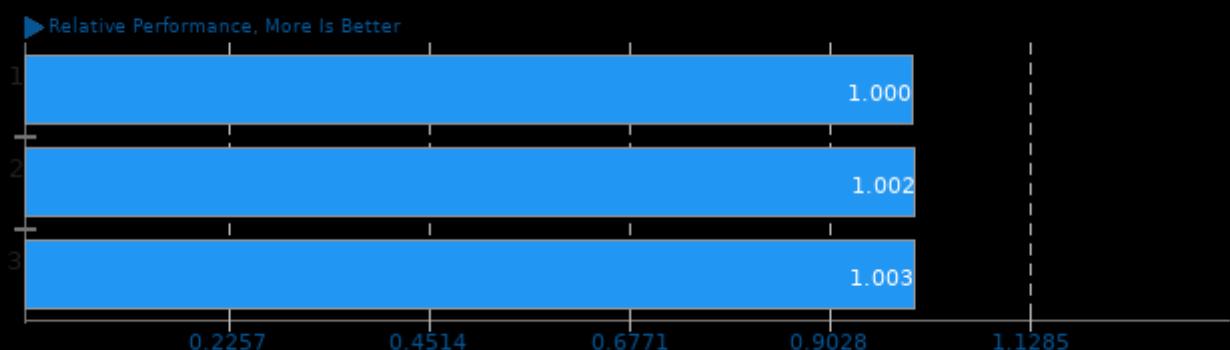
Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/viennacl and pts/shoc

## Geometric Mean Of OpenCL Tests

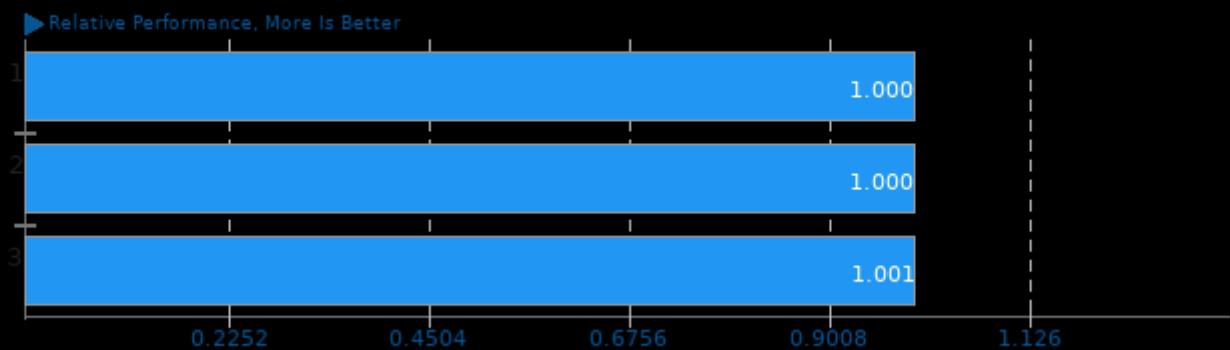
Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/shoc and pts/viennacl

## Geometric Mean Of Programmer / Developer System Benchmarks Tests

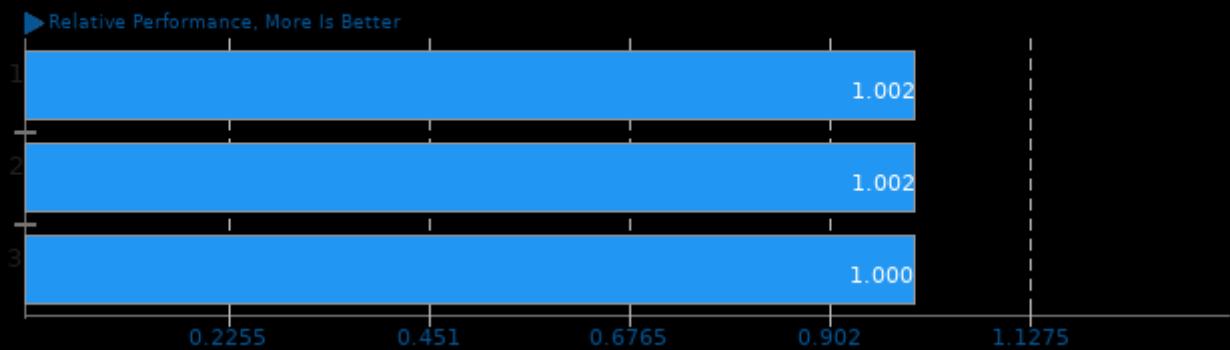
Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/simdjson, pts/compress-zstd, pts/build-linux-kernel, pts/build-erlang, pts/build-nodejs and pts/build-mesa

## Geometric Mean Of Python Tests

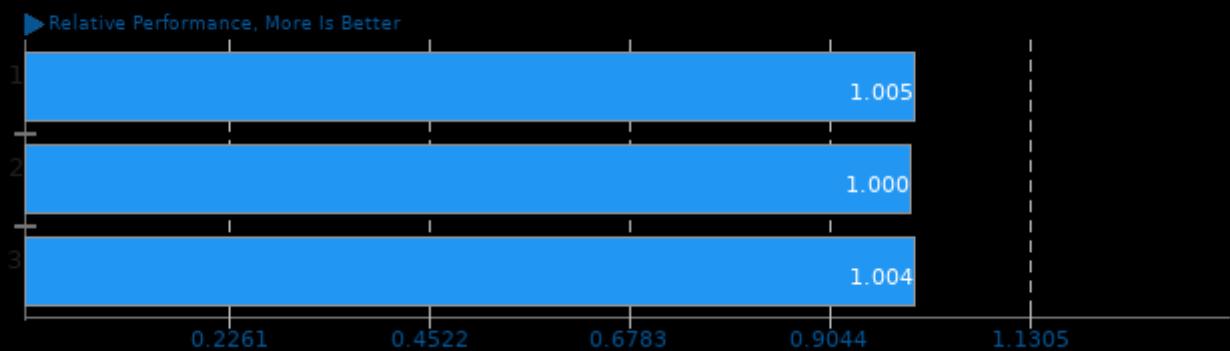
Result Composite - 8086K April 2021



Geometric mean based upon tests: system/gnuradio, pts/build-mesa, pts/build-nodejs and pts/systemd-boot-total

## Geometric Mean Of Software Defined Radio Tests

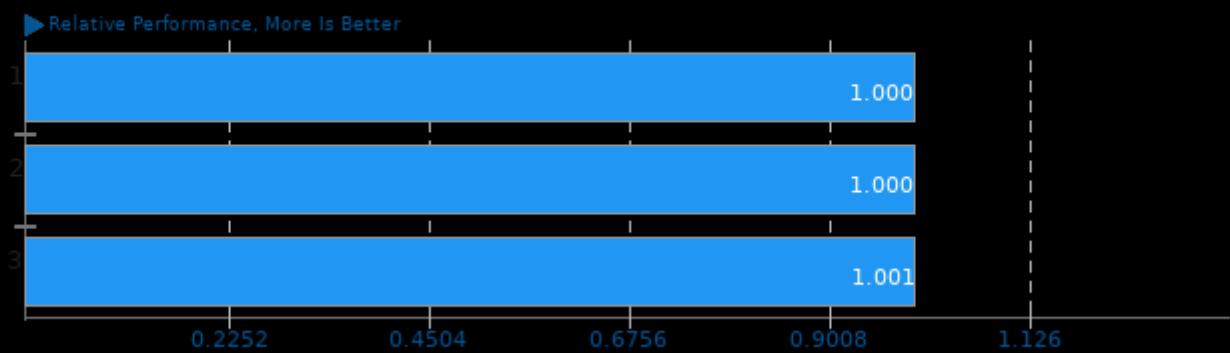
Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/liquid-dsp, pts/srslte, pts/luaradio and system/gnuradio

## Geometric Mean Of Server CPU Tests

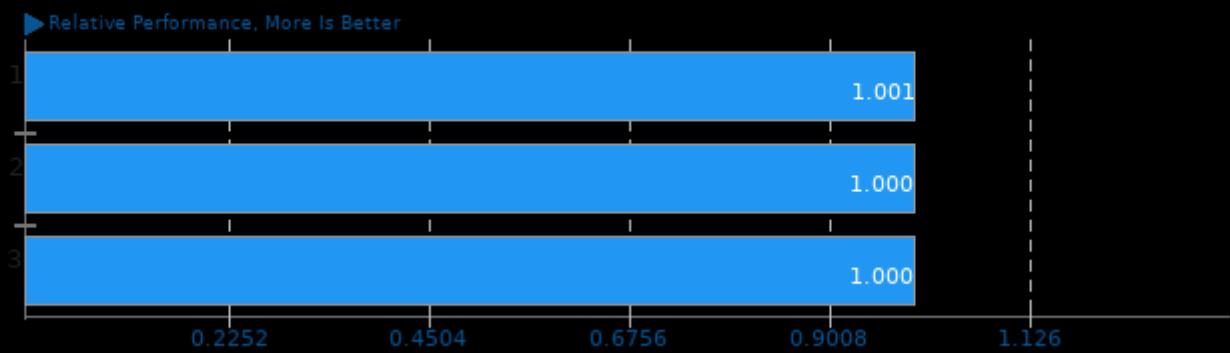
Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/onednn, pts/svt-hevc, pts/svt-vp9, pts/dav1d, pts/stockfish, pts/build-linux-kernel, pts/compress-zstd and pts/sysbench

## Geometric Mean Of Single-Threaded Tests

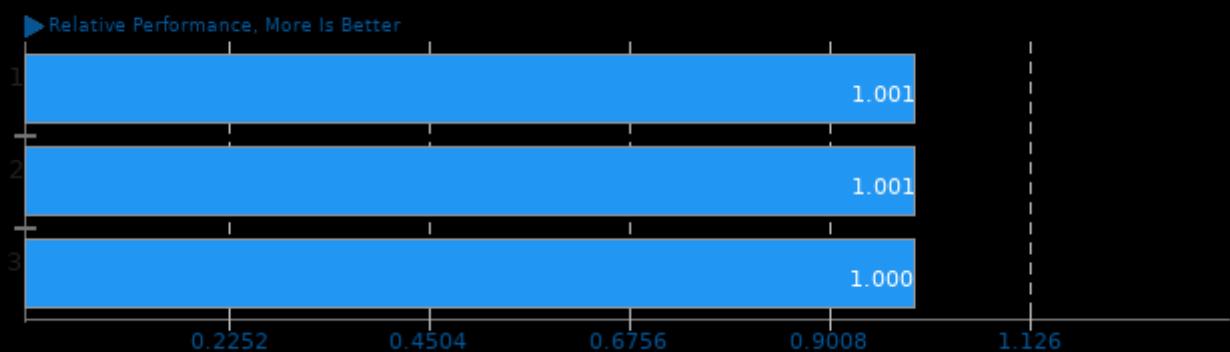
Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/gmpbench and pts/botan

## Geometric Mean Of Texture Compression Tests

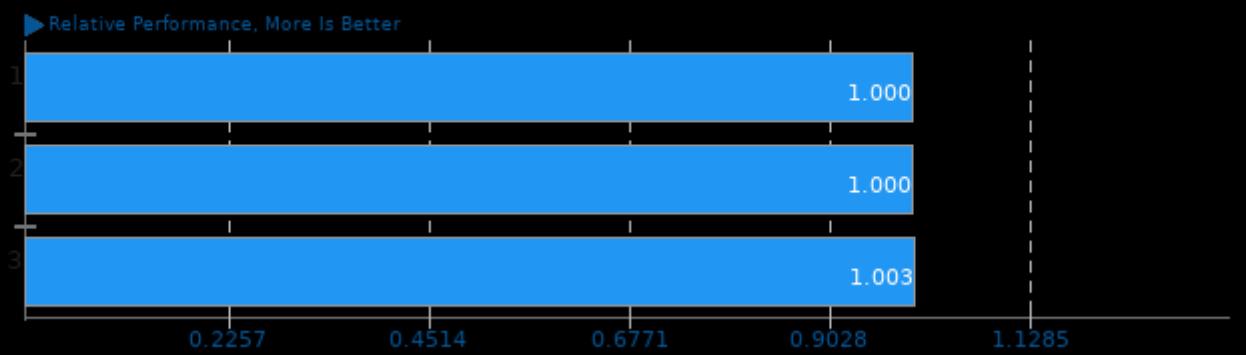
Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/basis and pts/astcenc

## Geometric Mean Of Video Encoding Tests

Result Composite - 8086K April 2021



Geometric mean based upon tests: pts/svt-vp9, pts/svt-hevc, pts/dav1d, pts/aom-av1 and pts/avifenc

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 04:13.*