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## 3900XT Mon

AMD Ryzen 9 3900XT 12-Core testing with a MSI MEG X570 GODLIKE (MS-7C34) v1.0 (1.B3 BIOS) and AMD Radeon RX 56/64 8GB on Ubuntu 20.10 via the Phoronix Test Suite.

### Automated Executive Summary

*1 had the most wins, coming in first place for 48% of the tests.*

*Based on the geometric mean of all complete results, the fastest (1) was 1.034x the speed of the slowest (3). 2 was 0.978x the speed of 1, 4 was 0.988x the speed of 2, 3 was 1x the speed of 4.*

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

*Izbench (Test: Crush 0 - Process: Compression) at 1.127x*

*Redis (Test: GET) at 1.109x*

*Redis (Test: SADD) at 1.065x*

*Izbench (Test: XZ 0 - Process: Decompression) at 1.054x*

*EtcPak (Configuration: DXT1) at 1.047x*

*Izbench (Test: XZ 0 - Process: Compression) at 1.047x*

*Izbench (Test: Libdeflate 1 - Process: Compression) at 1.044x*

*QuantLib at 1.043x*

*Cython Benchmark (Test: N-Queens) at 1.042x*

*Izbench (Test: Zstd 1 - Process: Decompression) at 1.042x.*

## Test Systems:

1

2

3

4

Processor: AMD Ryzen 9 3900XT 12-Core @ 3.80GHz (12 Cores / 24 Threads), Motherboard: MSI MEG X570 GODLIKE (MS-7C34) v1.0 (1.B3 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 500GB Seagate FireCuda 520 SSD ZP500GM30002, Graphics: AMD Radeon RX 56/64 8GB (1630/945MHz), Audio: AMD Vega 10 HDMI Audio, Monitor: ASUS MG28U, Network: Realtek Device 2600 + Realtek Device 3000 + Intel Wi-Fi 6 AX200

OS: Ubuntu 20.10, Kernel: 5.11.0-rc1-phx (x86\_64) 20201228, Desktop: GNOME Shell 3.38.1, Display Server: X Server 1.20.9, Display Driver: amdgpu 19.1.0, OpenGL: 4.6 Mesa 20.2.1 (LLVM 11.0.0), Vulkan: 1.2.131, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

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

Disk Notes: NONE / errors=remount-ro,relatime,rw / Block Size: 4096

Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x8701021

Python Notes: Python 2.7.18 + Python 3.8.6

Security Notes: itlb\_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre\_v1: Mitigation of usercopy/swapgs barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Full AMD retpoline IPBP: conditional STIBP: conditional RSB filling + srbs: Not affected + tsx\_async\_abort: Not affected

	1	2	3	4
<b>IOR - 2MB (MB/s)</b>	<b>1114</b>	1011	<b>1004</b>	1042
Normalized	100%	90.72%	90.15%	93.52%
Standard Deviation	10.6%	10.1%	10.7%	11%
<b>IOR - 4MB (MB/s)</b>	<b>642.36</b>	651.65	<b>655.02</b>	<b>679.56</b>
Normalized	94.53%	95.89%	96.39%	100%
Standard Deviation	16.1%	8.1%	9.8%	10.4%
<b>IOR - 8MB (MB/s)</b>	<b>572.49</b>	<b>627.88</b>	<b>475.40</b>	<b>459.80</b>
Normalized	91.18%	100%	75.72%	73.23%
Standard Deviation	7.4%	9%	17.5%	15.2%
<b>IOR - 16MB (MB/s)</b>	<b>502.00</b>	<b>436.13</b>	453.34	452.64

Normalized	100%	86.88%	90.31%	90.17%
Standard Deviation	3.7%	15.2%	4.3%	4.6%
<b>IOR - 32MB (MB/s)</b>	<b>495.89</b>	460.44	<b>449.38</b>	450.46
Normalized	100%	92.85%	90.62%	90.84%
Standard Deviation	5.1%	4.4%	6.4%	2.4%
<b>QuantLib (MFLOPS)</b>	<b>2657</b>	2628	<b>2557</b>	<b>2547</b>
Normalized	100%	98.91%	96.24%	95.85%
Standard Deviation	0.1%	2.3%	2.4%	2.4%
<b>EtcPak - DXT1 (Mpx/s)</b>	<b>1444</b>	1431	1403	<b>1380</b>
Normalized	100%	99.09%	97.11%	95.52%
Standard Deviation	0.6%	2.4%	2.9%	0.6%
<b>EtcPak - ETC1 (Mpx/s)</b>	323.102	<b>324.961</b>	319.761	<b>315.411</b>
Normalized	99.43%	100%	98.4%	97.06%
Standard Deviation	2.3%	2.4%	2.1%	0.5%
<b>EtcPak - ETC2 (Mpx/s)</b>	191.526	<b>191.707</b>	184.876	<b>184.174</b>
Normalized	99.91%	100%	96.44%	96.07%
Standard Deviation	0.1%	0.2%	0.9%	0.8%
<b>EtcPak - ETC1 + Dithering (Mpx/s)</b>	299.985	<b>299.986</b>	292.669	<b>288.250</b>
Normalized	100%	100%	97.56%	96.09%
Standard Deviation	0%	0%	2.4%	0%
<b>NAS Parallel Benchmarks - EP.C (Mop/s)</b>	<b>1126</b>	1122	1124	<b>1121</b>
Normalized	100%	99.71%	99.87%	99.58%
Standard Deviation	0.3%	0.3%	0.2%	0.2%
<b>NAS Parallel Benchmarks - EP.D (Mop/s)</b>	<b>1114</b>	1116	<b>1118</b>	1116
Normalized	99.65%	99.87%	100%	99.82%
Standard Deviation	0.2%	0.3%	0.2%	0.2%
<b>NAS Parallel Benchmarks - LU.C (Mop/s)</b>	<b>25441</b>	25747	<b>25770</b>	25620
Normalized	98.72%	99.91%	100%	99.42%
Standard Deviation	0.1%	0.1%	0%	0.6%
<b>Izbench - XZ 0 - Compression (MB/s)</b>	<b>45</b>	<b>43</b>	<b>43</b>	44
Normalized	100%	95.56%	95.56%	97.78%
Standard Deviation				2.3%
<b>Izbench - XZ 0 - Decompression</b>	<b>137</b>	<b>130</b>	131	<b>133</b>
Normalized	100%	94.89%	95.62%	97.08%
Standard Deviation				2.2%
<b>Izbench - Zstd 1 - Compression (MB/s)</b>	<b>586</b>	567	567	<b>566</b>
Normalized	100%	96.76%	96.76%	96.59%
Standard Deviation	0.2%	0.8%		
<b>Izbench - Zstd 1 - Decompression</b>	<b>1821</b>	<b>1748</b>	1750	<b>1749</b>
Normalized	100%	95.99%	96.1%	96.05%
Standard Deviation	0.9%	0.5%	0.3%	0.1%
<b>Izbench - Zstd 8 - Compression (MB/s)</b>	<b>113</b>	<b>111</b>	112	<b>111</b>
Normalized	100%	98.23%	99.12%	98.23%
Standard Deviation		2.5%	3.4%	
<b>Izbench - Zstd 8 - Decompression</b>	<b>2000</b>	1973	1988	<b>1971</b>
Normalized	100%	98.65%	99.4%	98.55%
Standard Deviation	1.4%	1.9%	2.2%	2.1%
<b>Izbench - Crush 0 - Compression</b>	<b>124</b>	113	113	<b>110</b>
Normalized	100%	91.13%	91.13%	88.71%
Standard Deviation		2.4%	2.6%	

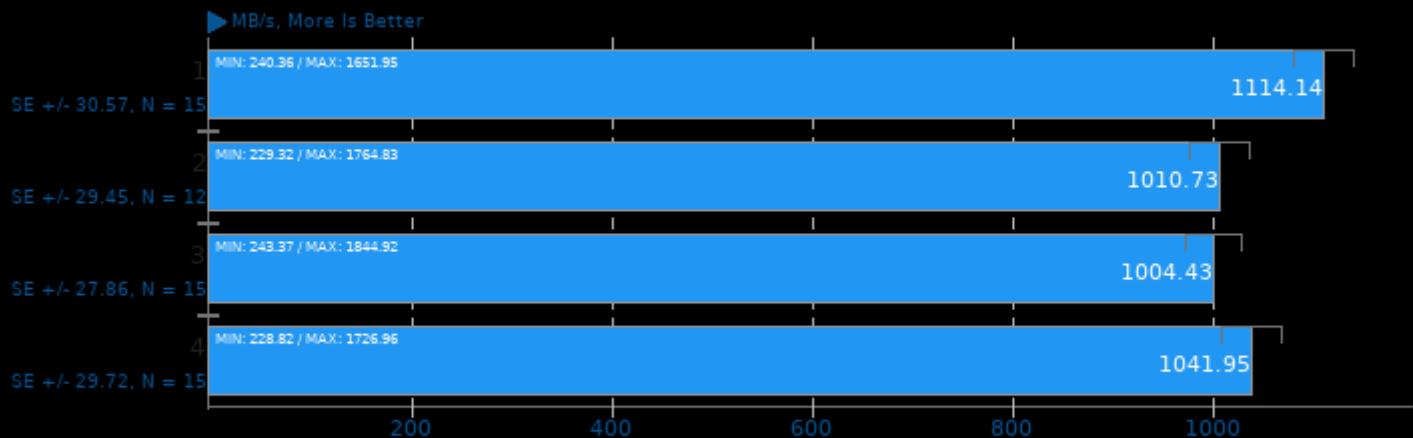
Izbench - Crush 0 - Decompression	<b>555</b> (MB/s)	540	535	<b>533</b>
Normalized	100%	97.3%	96.4%	96.04%
Standard Deviation		2.5%	1.1%	0.4%
Izbench - Brotli 0 - Compression	<b>568</b>	562	556	<b>551</b>
Normalized	100%	98.94%	97.89%	97.01%
Standard Deviation	1.2%	2.4%	1.9%	2.4%
Izbench - Brotli 0 - Decompression	<b>661</b> (MB/s)	655	650	<b>644</b>
Normalized	100%	99.09%	98.34%	97.43%
Standard Deviation	0.7%	2.1%	1.8%	2.2%
Izbench - Brotli 2 - Compression	<b>226</b>	<b>226</b>	<b>229</b>	<b>226</b>
Normalized	98.69%	98.69%	100%	98.69%
Standard Deviation	2%	2.3%	0.4%	2.5%
Izbench - Brotli 2 - Decompression	773 (MB/s)	<b>768</b>	<b>781</b>	773
Normalized	98.98%	98.34%	100%	98.98%
Standard Deviation	2.4%	2.3%	0.4%	2.6%
Izbench - Libdeflate 1 - Compression	<b>282</b> (MB/s)	<b>270</b>	281	272
Normalized	100%	95.74%	99.65%	96.45%
Standard Deviation				0.2%
Cython Benchmark - N-Queens (sec)	21.841	<b>22.567</b>	<b>21.657</b>	22.258
Normalized	99.16%	95.97%	100%	97.3%
Standard Deviation	0.6%	2.2%	0.5%	2.5%
Gcrypt Library (sec)	<b>189.379</b>	<b>194.921</b>	190.739	192.549
Normalized	100%	97.16%	99.29%	98.35%
Standard Deviation	0.2%	2.4%	2.2%	1.6%
Cpuminer-Opt - Magi (kH/s)	656.06	658.45	<b>650.47</b>	<b>660.96</b>
Normalized	99.26%	99.62%	98.41%	100%
Standard Deviation	2%	5.5%	0.3%	1.9%
Cpuminer-Opt - x25x (kH/s)	437.02	<b>434.50</b>	436.52	<b>443.08</b>
Normalized	98.63%	98.06%	98.52%	100%
Standard Deviation	1.7%	7.2%	2.3%	5.1%
Cpuminer-Opt - Deepcoin (kH/s)	11670	<b>11760</b>	11643	<b>11496</b>
Normalized	99.23%	100%	99.01%	97.76%
Standard Deviation	1.4%	1.8%	0.2%	5.3%
Cpuminer-Opt - Ringcoin (kH/s)	2708	<b>2738</b>	2724	<b>2555</b>
Normalized	98.92%	100%	99.5%	93.31%
Standard Deviation	0.1%	1.2%	1.6%	23.8%
Cpuminer-Opt - Blake-2 S (kH/s)	<b>424753</b>	431572	431999	<b>436577</b>
Normalized	97.29%	98.85%	98.95%	100%
Standard Deviation	2.4%	3.9%	3.6%	3.6%
Cpuminer-Opt - Garlicoin (kH/s)	2741	<b>2739</b>	2743	<b>2787</b>
Normalized	98.36%	98.27%	98.44%	100%
Standard Deviation	0.5%	0.1%	3.9%	2%
Cpuminer-Opt - Skeincoin (kH/s)	<b>79968</b>	<b>75588</b>	76781	77967
Normalized	100%	94.52%	96.01%	97.5%
Standard Deviation	5.7%	7.3%	7.4%	4.8%
Cpuminer-Opt - Myriad-Groestl (kH/s)	<b>15704</b>	14706	14520	<b>14474</b>
Normalized	100%	93.64%	92.46%	92.17%
Standard Deviation	29.2%	4%	0.9%	6.3%

<b>Cpuminer-Opt - LBC, LBRY Credits (kH/s)</b>	34423	<b>35490</b>	<b>33917</b>	35479
Normalized	96.99%	100%	95.57%	99.97%
Standard Deviation	2.5%	1.5%	8.5%	4.2%
<b>Cpuminer-Opt - Q.S.2.P (kH/s)</b>	66104	<b>57327</b>	63937	<b>66815</b>
Normalized	98.94%	85.8%	95.69%	100%
Standard Deviation	2.4%	23%	1.9%	23%
<b>Cpuminer-Opt - T.S.2.O (kH/s)</b>	88850	<b>93133</b>	<b>86578</b>	87550
Normalized	95.4%	100%	92.96%	94.01%
Standard Deviation	0.9%	1.2%	8.1%	9.6%
<b>FinanceBench - Repo OpenMP (ms)</b>	<b>34171</b>	<b>33975</b>	34077	34164
Normalized	99.43%	100%	99.7%	99.45%
Standard Deviation	1%	0.4%	0.6%	0.6%
<b>FinanceBench - Bonds OpenMP (ms)</b>	48901	<b>49064</b>	<b>48800</b>	48943
Normalized	99.79%	99.46%	100%	99.71%
Standard Deviation	0.4%	0.4%	0.3%	0.4%
<b>ASKAP - tConvolve MT - Gridding (Million Grid Points/sec)</b>	<b>768.326</b>	<b>765.929</b>	766.603	767.094
Normalized	100%	99.69%	99.78%	99.84%
Standard Deviation	0.3%	0%	0%	0.1%
<b>ASKAP - tConvolve MT - Degridding (Million Grid Points/sec)</b>	1304	<b>1306</b>	1303	<b>1303</b>
Normalized	99.89%	100%	99.81%	99.77%
Standard Deviation	0.5%	0.4%	0.3%	0.2%
<b>ASKAP - tConvolve MPI - Degridding (Mpix/sec)</b>	<b>7380</b>	7428	<b>7380</b>	<b>7476</b>
Normalized	98.73%	99.36%	98.73%	100%
Standard Deviation	1.1%	1.9%	1.1%	2.2%
<b>ASKAP - tConvolve MPI - Gridding (Mpix/sec)</b>	<b>7718</b>	<b>7718</b>	7620	<b>7523</b>
Normalized	100%	100%	98.74%	97.48%
Standard Deviation			2.2%	2.2%
<b>ASKAP - tConvolve OpenMP - Gridding (Million Grid Points/sec)</b>	1458	<b>1460</b>	<b>1460</b>	<b>1450</b>
Normalized	99.82%	100%	100%	99.27%
Standard Deviation	0.3%	0.6%	0.6%	0.3%
<b>ASKAP - tConvolve OpenMP - Degridding (Million Grid Points/sec)</b>	1594	<b>1604</b>	1601	<b>1591</b>
Normalized	99.4%	100%	99.8%	99.21%
Standard Deviation	0%	0%	0.3%	0.9%
<b>ASKAP - H.C.O (Iterations/sec)</b>	165.837	<b>165.847</b>	<b>163.845</b>	164.114
Normalized	99.99%	100%	98.79%	98.96%
Standard Deviation	0%	0.9%	0.1%	0.1%
<b>Redis - LPOP (Req/sec)</b>	<b>2646764</b>	2053102	<b>1592607</b>	1667546
Normalized	100%	77.57%	60.17%	63%
Standard Deviation	2.1%	23.4%	1.2%	2.4%
<b>Redis - SADD (Req/sec)</b>	<b>2198505</b>	2144898	<b>2065240</b>	2095076
Normalized	100%	97.56%	93.94%	95.3%
Standard Deviation	1.9%	1.5%	3%	1.6%
<b>Redis - LPUSH (Req/sec)</b>	<b>1639285</b>	1611296	1605402	<b>1587779</b>
Normalized	100%	98.29%	97.93%	96.86%
Standard Deviation	2.3%	2.6%	0.8%	2.1%
<b>Redis - GET (Req/sec)</b>	<b>2495306</b>	2268726	<b>2249303</b>	2315347
Normalized	100%	90.92%	90.14%	92.79%

<b>Standard Deviation</b>	2.3%	0.7%	2%	3.6%
<b>Redis - SET (Req/s/sec)</b>	1848259	<b>1864367</b>	1845440	<b>1829014</b>
<b>Normalized</b>	99.14%	100%	98.98%	98.1%
<b>Standard Deviation</b>	2.4%	3.4%	1.8%	2%
<b>GnuPG - 2.7.S.F.E (sec)</b>	64.036	<b>63.864</b>	<b>64.675</b>	<b>63.853</b>
<b>Normalized</b>	99.71%	99.98%	98.73%	100%
<b>Standard Deviation</b>	2.3%	2.3%	0.8%	2.3%

## IOR 3.3.0

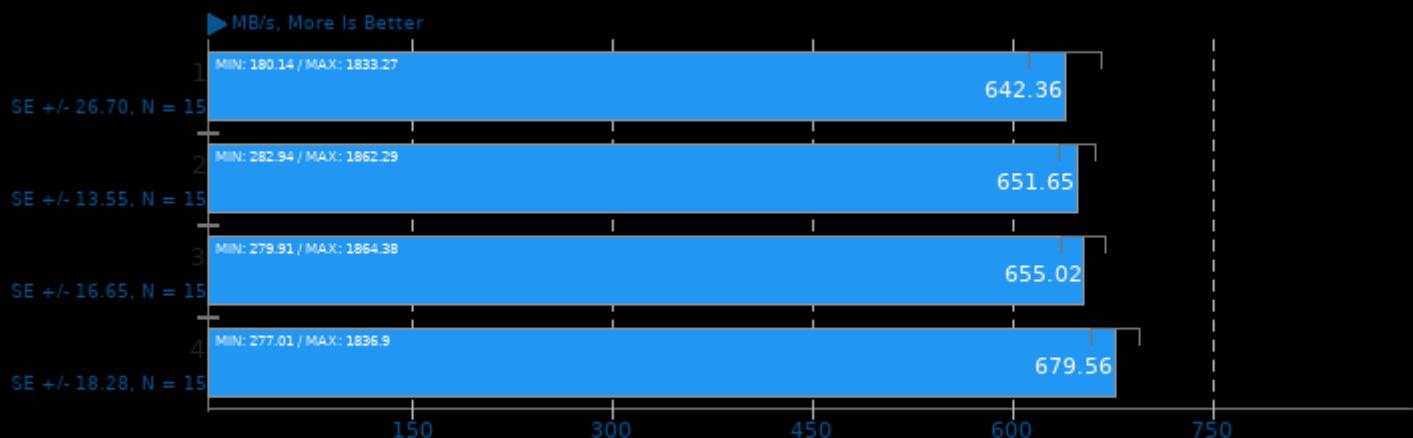
Block Size: 2MB - Disk Target: Default Test Directory



1. (CC) gcc options: -O2 -lm -pthread -lmpi

## IOR 3.3.0

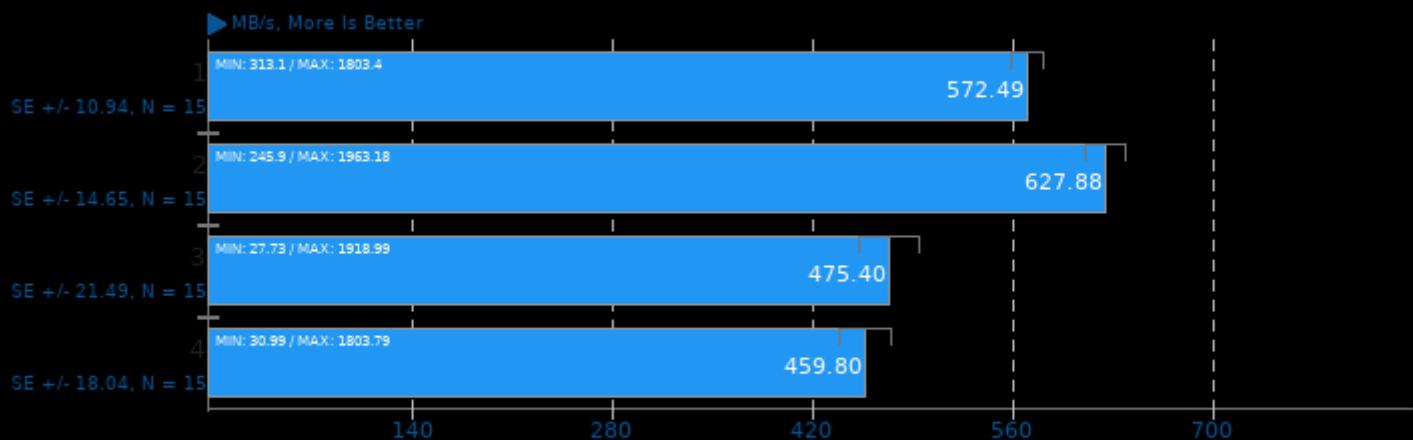
Block Size: 4MB - Disk Target: Default Test Directory



1. (CC) gcc options: -O2 -lm -pthread -lmpi

## IOR 3.3.0

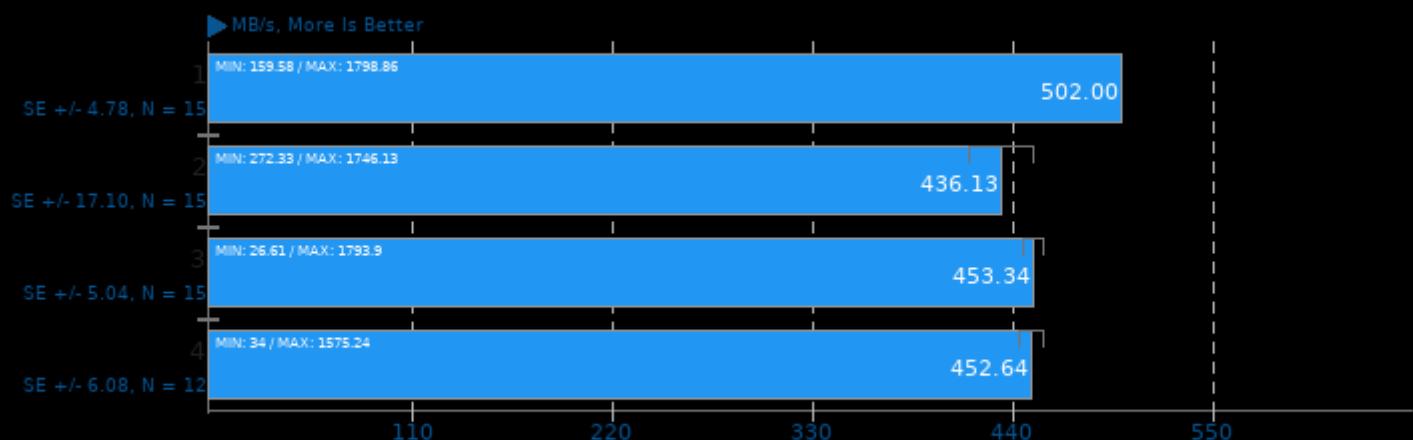
Block Size: 8MB - Disk Target: Default Test Directory



1. (CC) gcc options: -O2 -lm -pthread -lmpi

## IOR 3.3.0

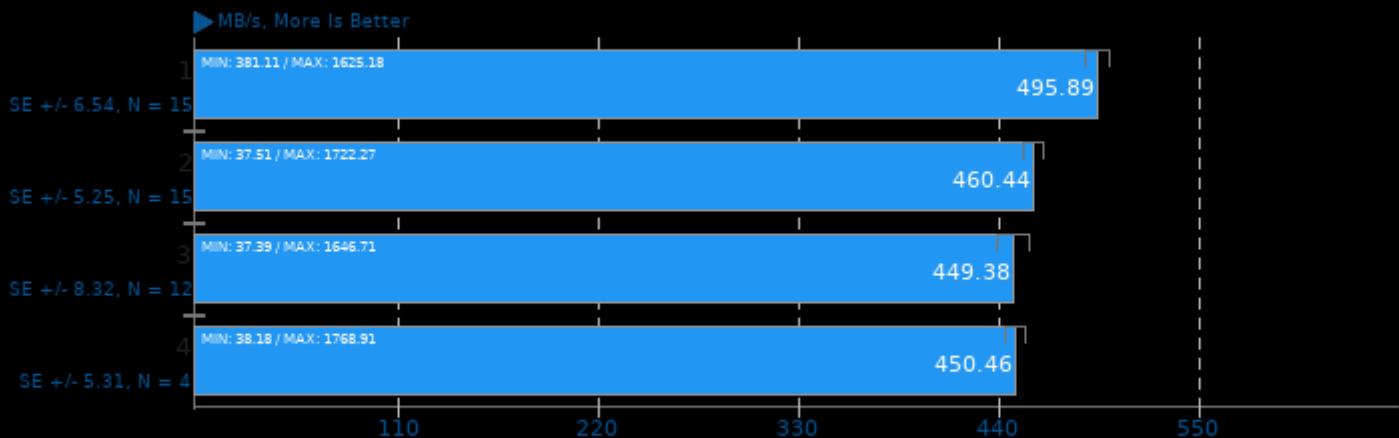
Block Size: 16MB - Disk Target: Default Test Directory



1. (CC) gcc options: -O2 -lm -pthread -lmpi

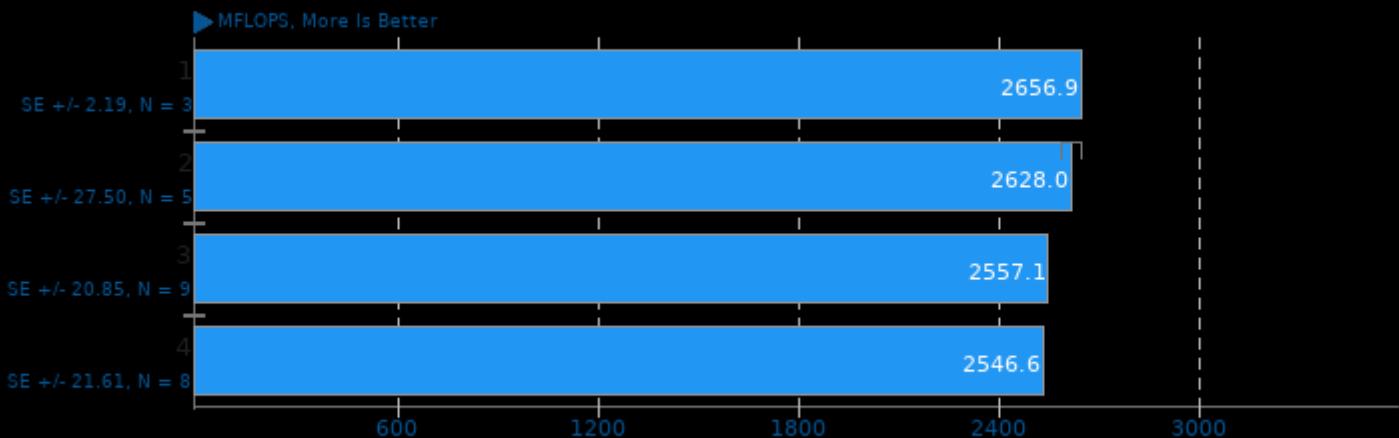
## IOR 3.3.0

Block Size: 32MB - Disk Target: Default Test Directory



1. (CC) gcc options: -O2 -lm -pthread -lmpi

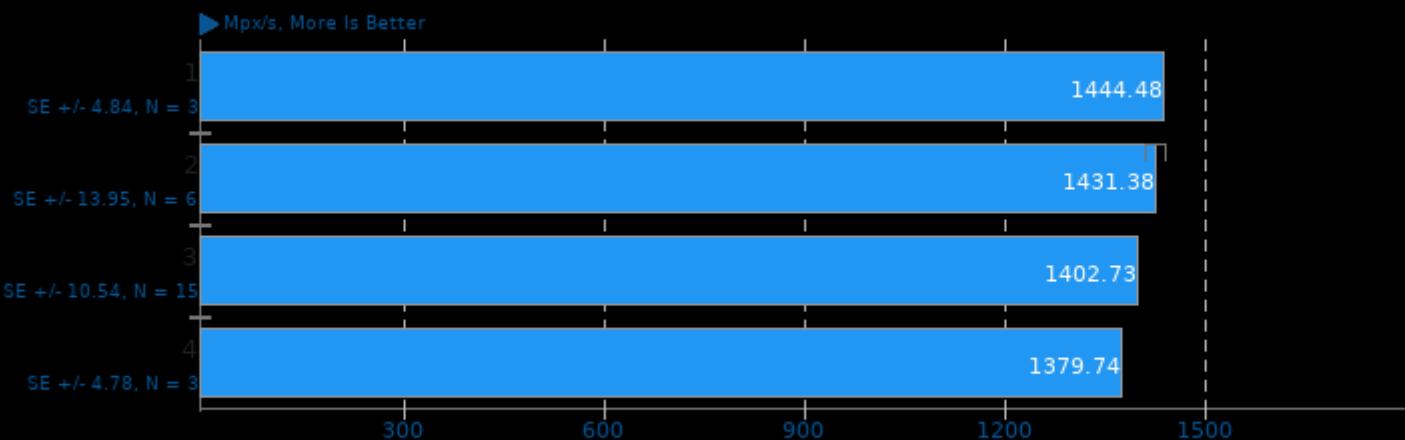
## QuantLib 1.21



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

## EtcPak 0.7

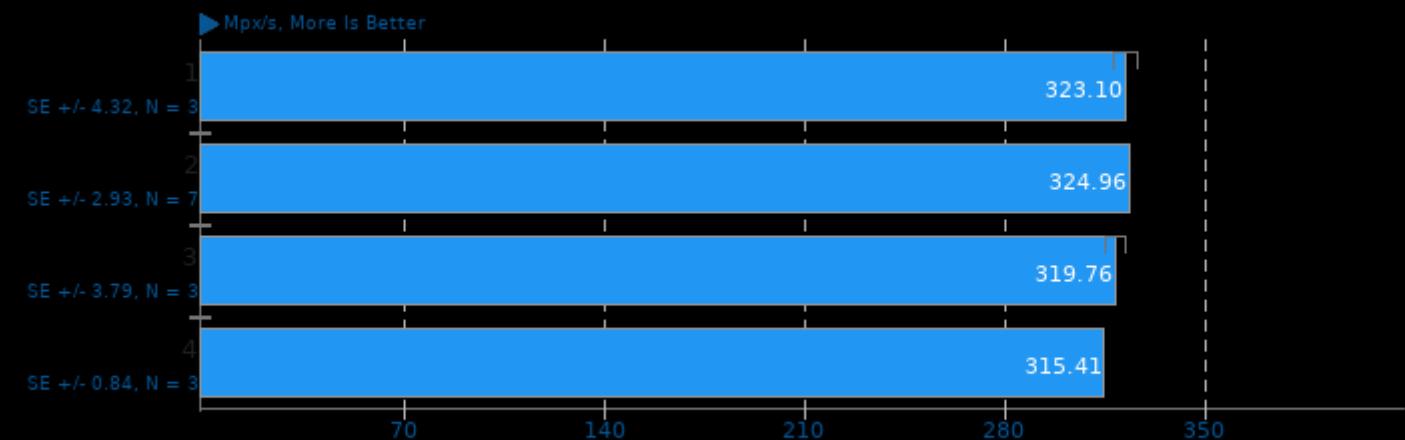
Configuration: DXT1



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

## EtcPak 0.7

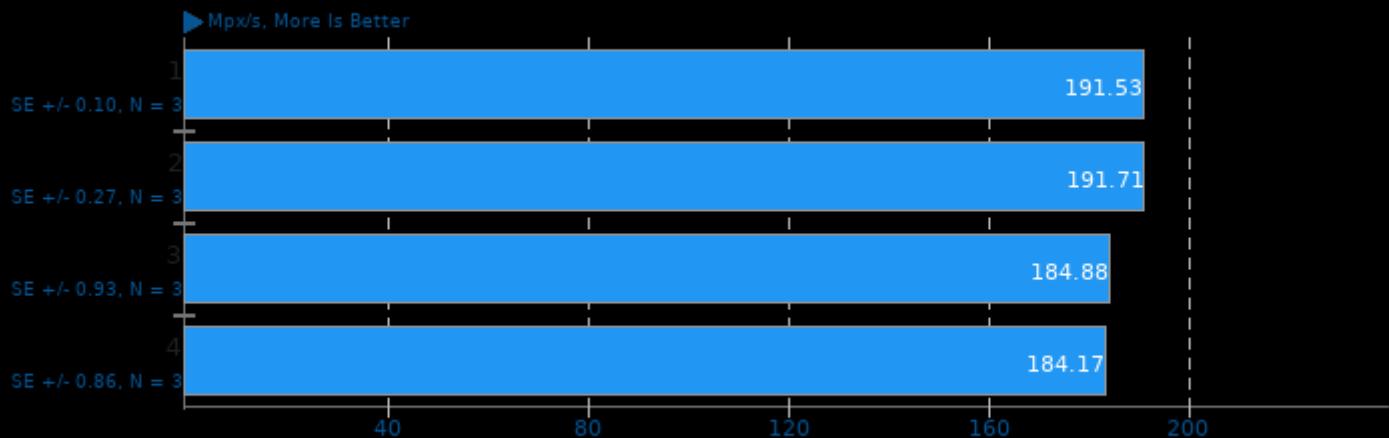
Configuration: ETC1



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

## EtcPak 0.7

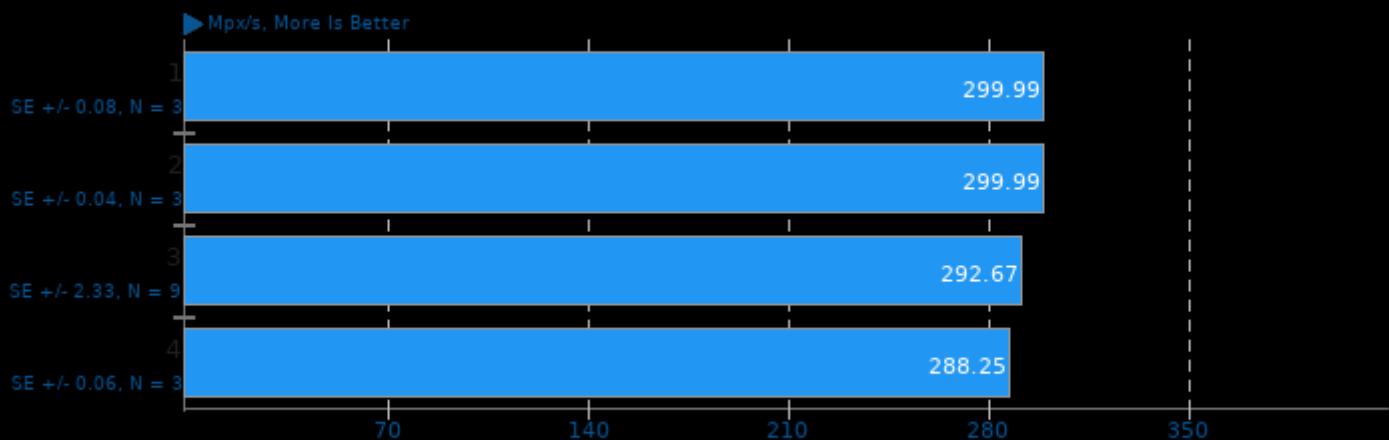
Configuration: ETC2



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

## EtcPak 0.7

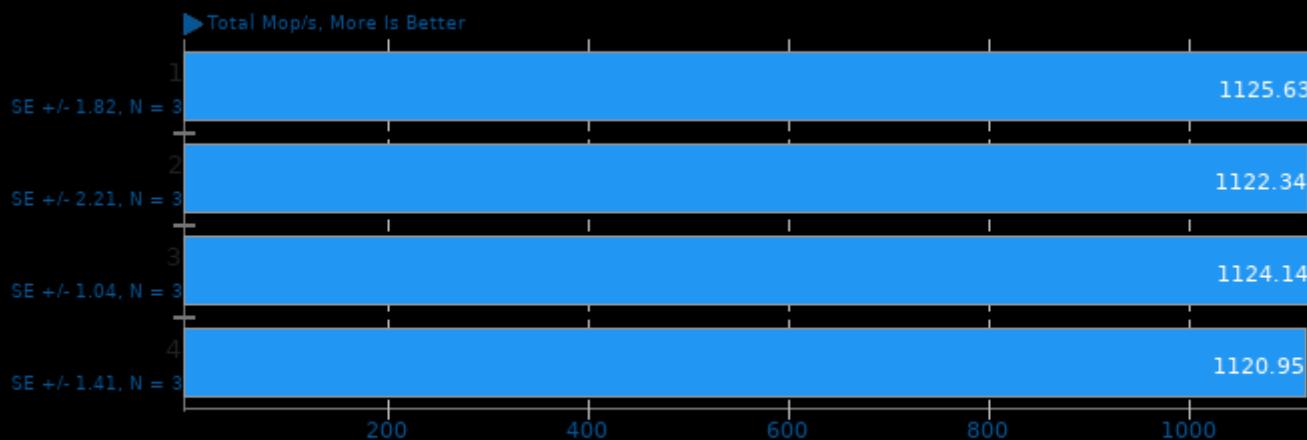
Configuration: ETC1 + Dithering



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

## NAS Parallel Benchmarks 3.4

Test / Class: EP.C

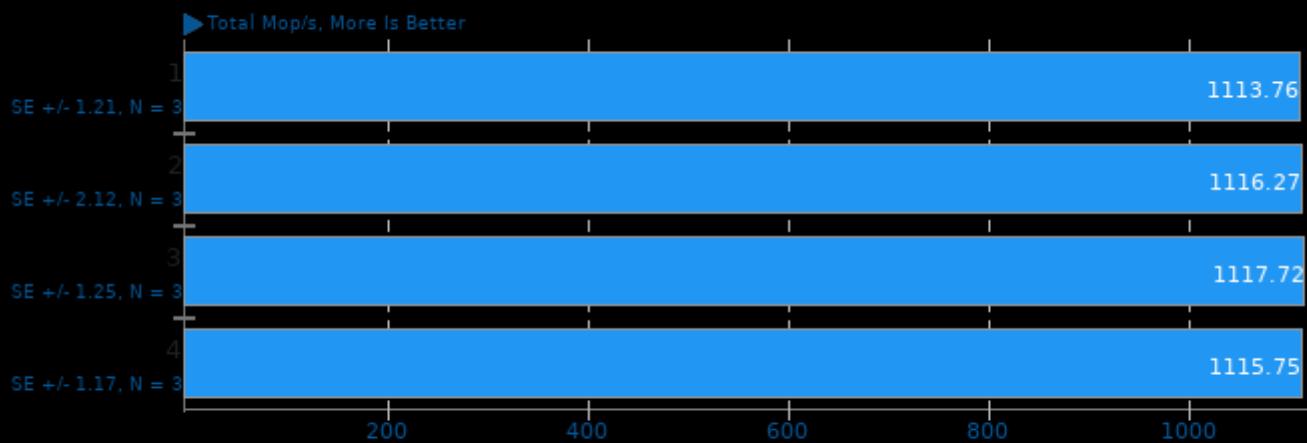


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi\_usempif08 -lmpi\_mpifh -lmpi -lopen rte -lopen pal -lhwloc -ldl -levent -levent\_pthreads -lutil

2. Open MPI 4.0.3

## NAS Parallel Benchmarks 3.4

Test / Class: EP.D

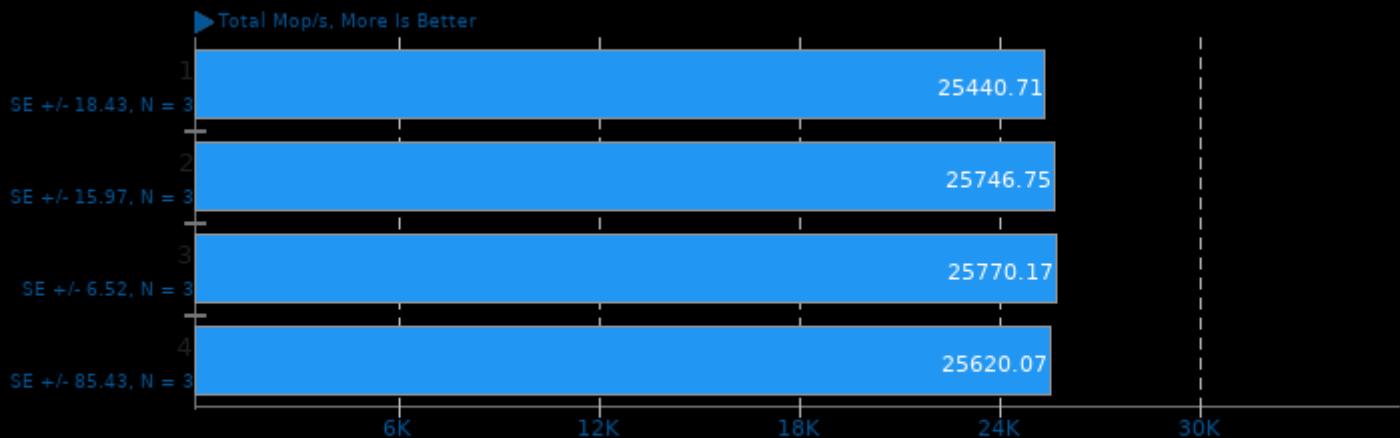


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi\_usempif08 -lmpi\_mpifh -lmpi -lopen rte -lopen pal -lhwloc -ldl -levent -levent\_pthreads -lutil

2. Open MPI 4.0.3

## NAS Parallel Benchmarks 3.4

Test / Class: LU.C

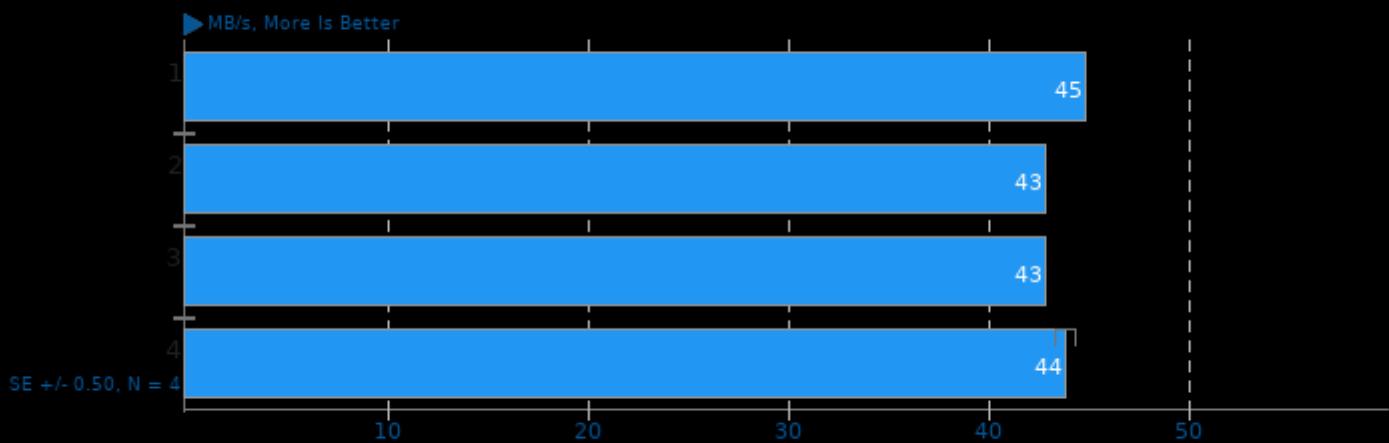


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi\_usempif08 -lmpi\_mpifh -lmpi -lopen rte -lopen pal -lhwloc -ldl -levent -levent\_pthreads -lutil

2. Open MPI 4.0.3

## Izbench 1.8

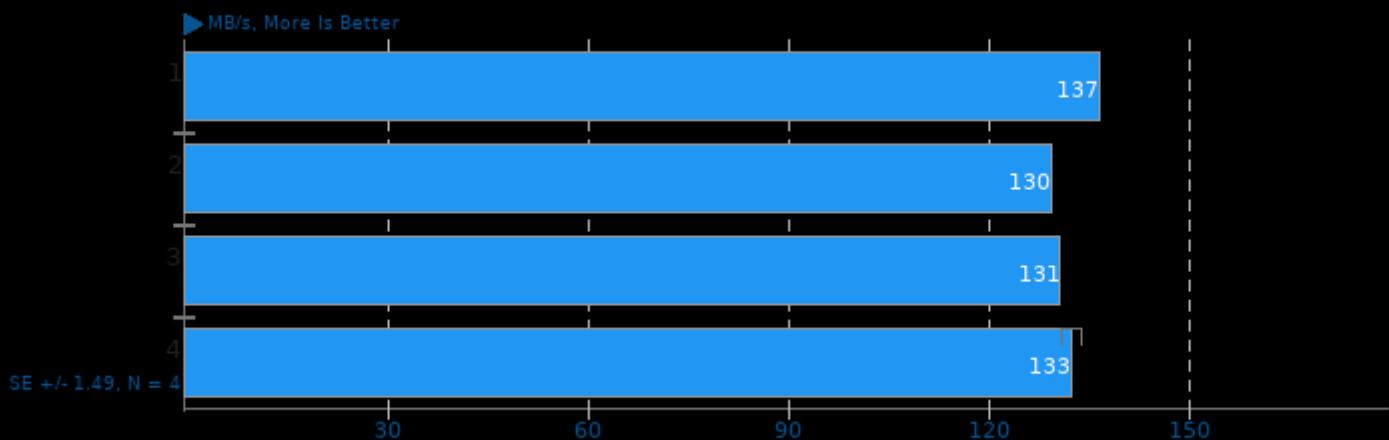
Test: XZ 0 - Process: Compression



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

## Izbench 1.8

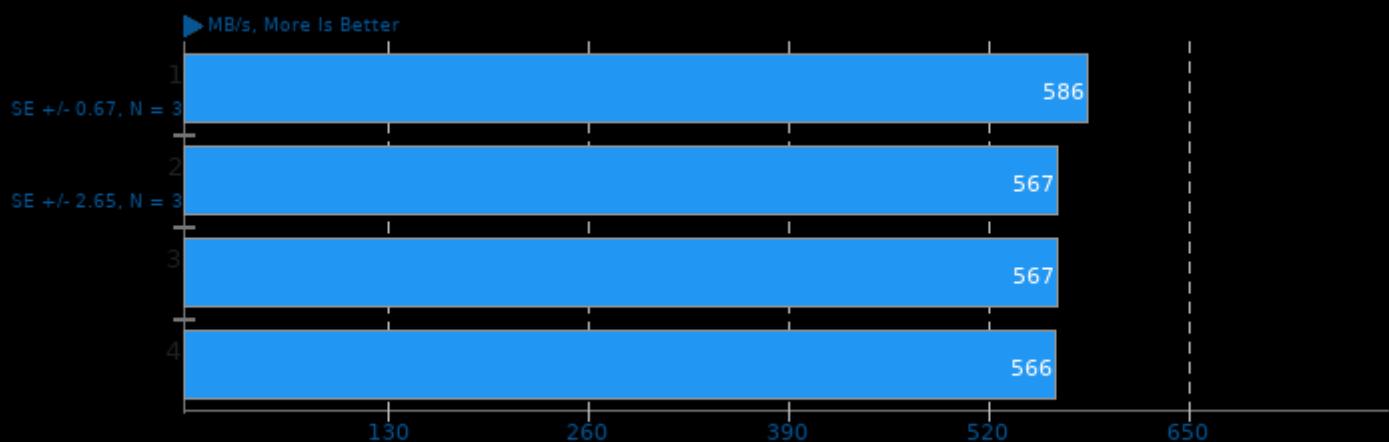
Test: XZ 0 - Process: Decompression



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

## Izbench 1.8

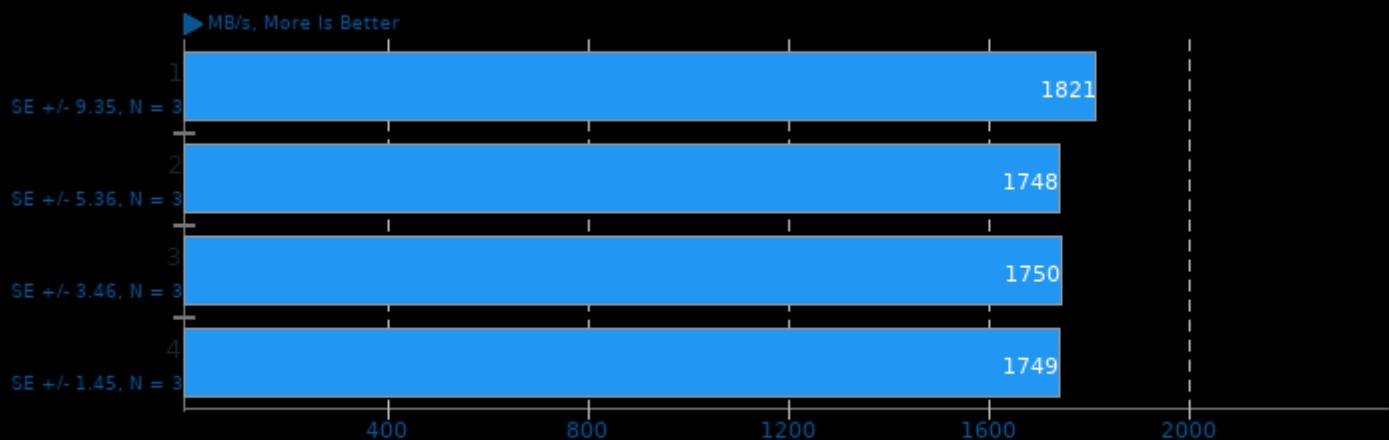
Test: Zstd 1 - Process: Compression



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

## Izbench 1.8

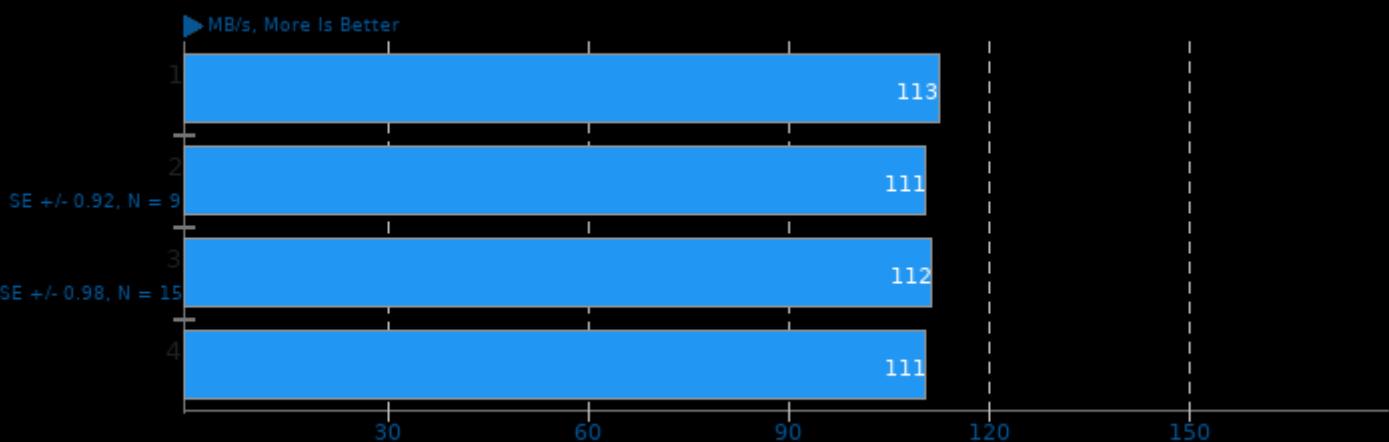
Test: Zstd 1 - Process: Decompression



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

## Izbench 1.8

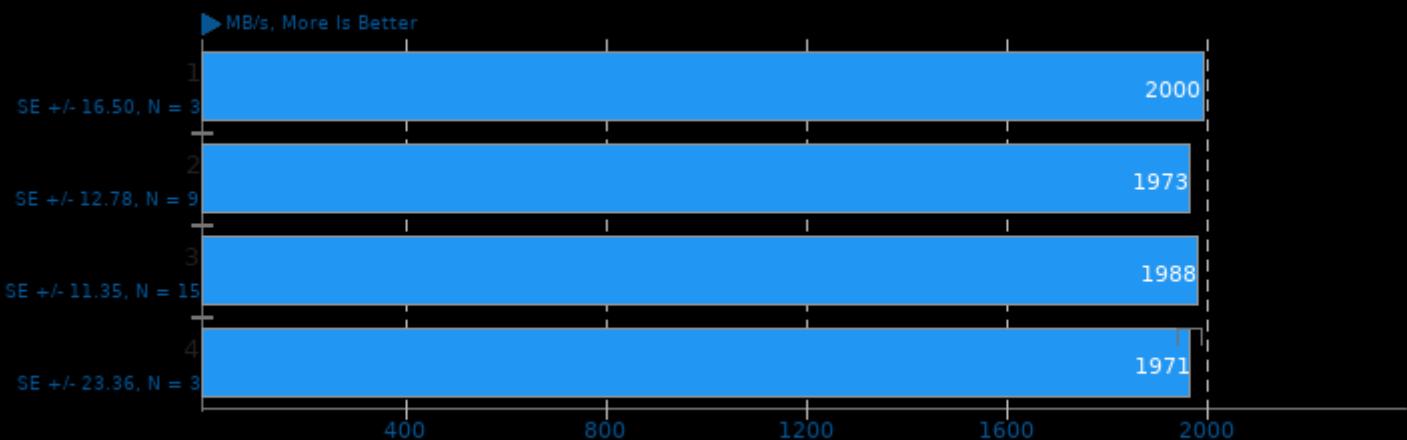
Test: Zstd 8 - Process: Compression



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

## Izbench 1.8

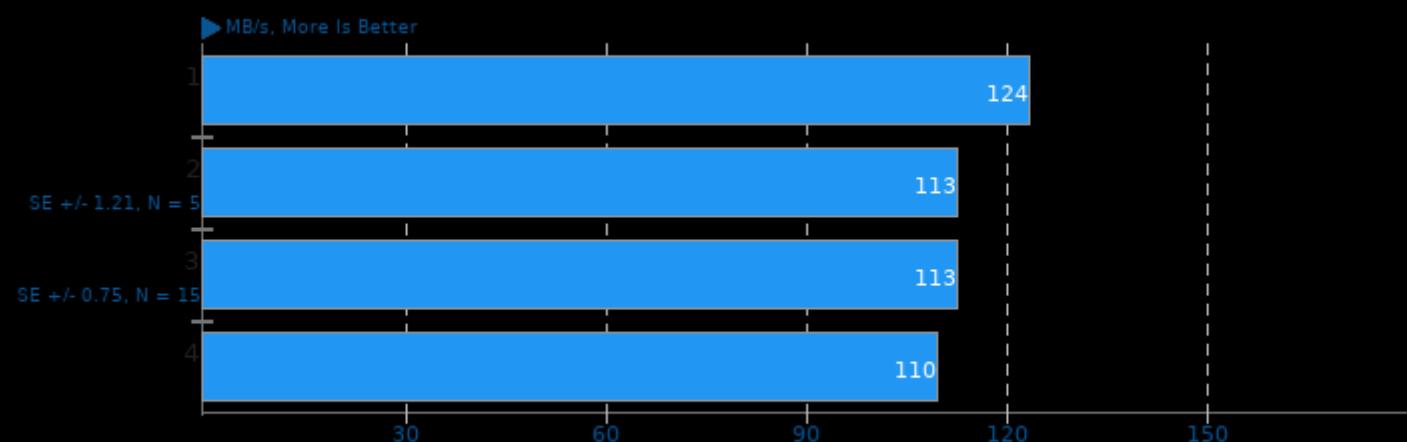
Test: Zstd 8 - Process: Decompression



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

## Izbench 1.8

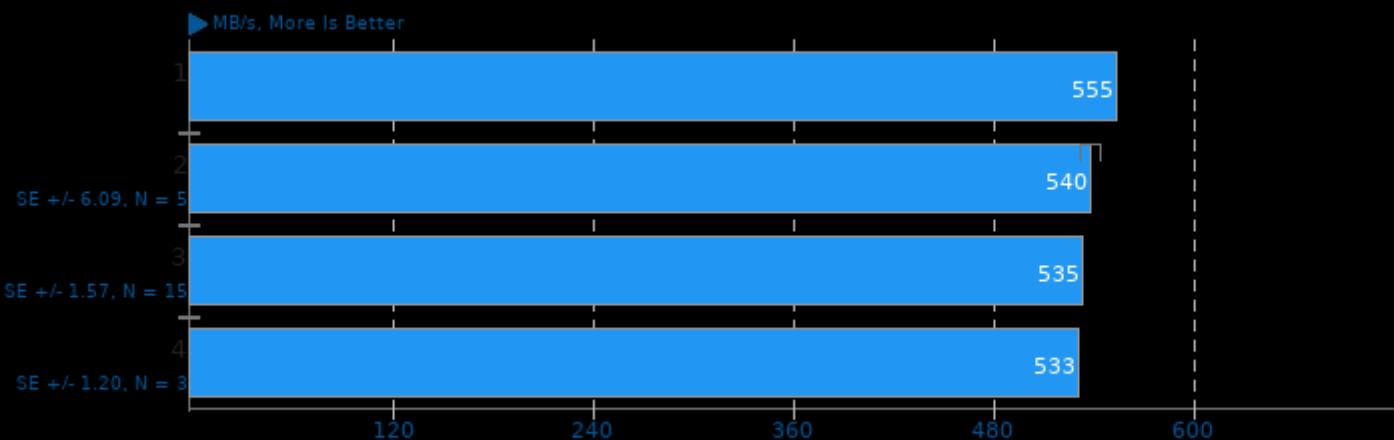
Test: Crush 0 - Process: Compression



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

## Izbench 1.8

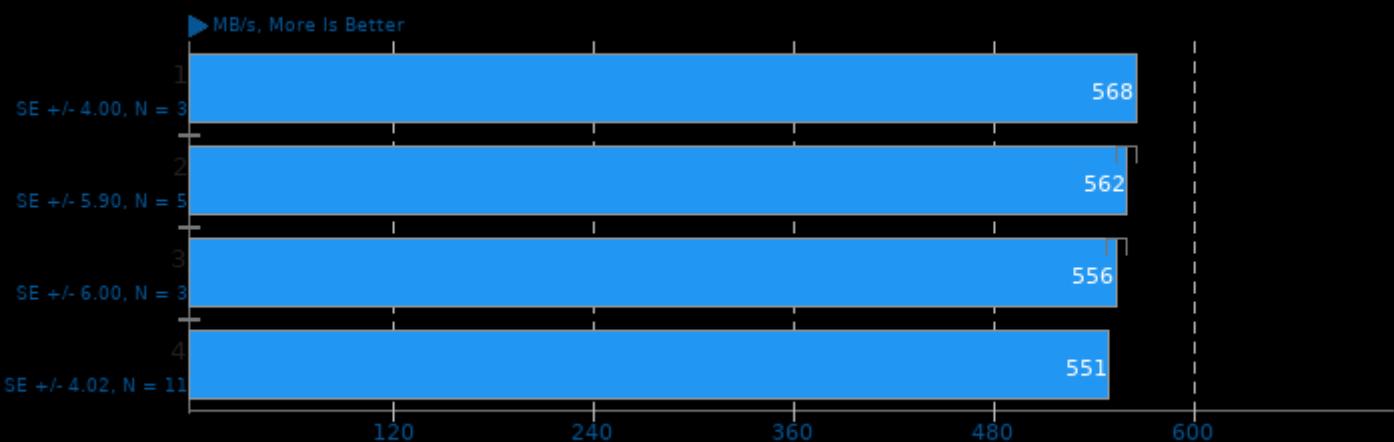
Test: Crush 0 - Process: Decompression



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

## Izbench 1.8

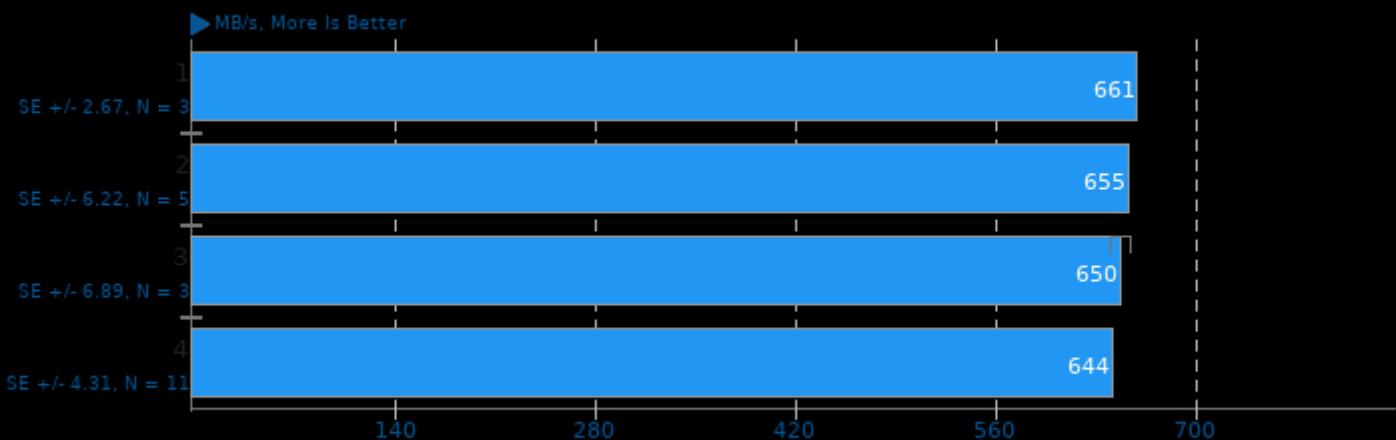
Test: Brotli 0 - Process: Compression



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

## Izbench 1.8

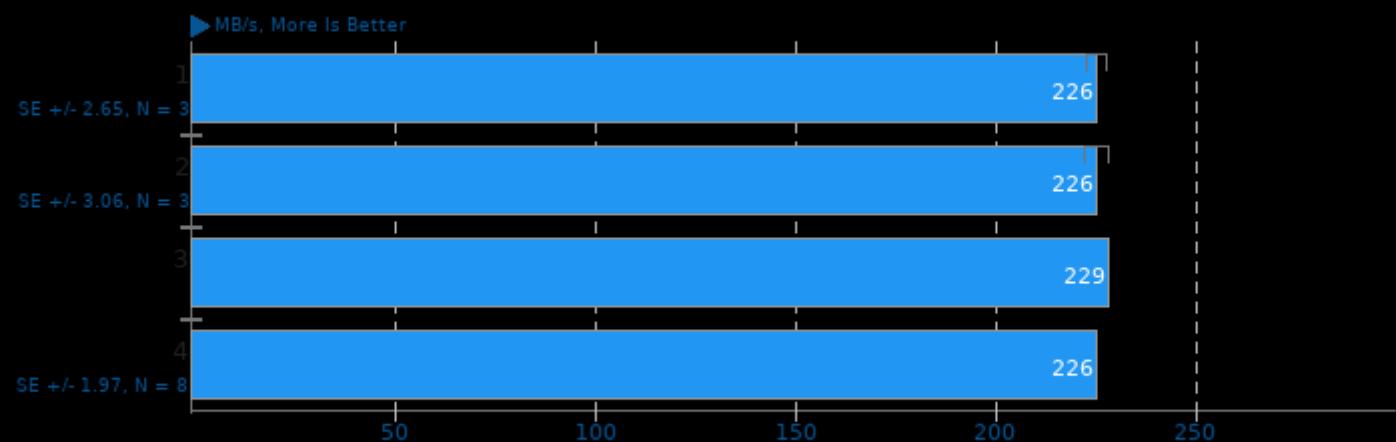
Test: Brotli 0 - Process: Decompression



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

## Izbench 1.8

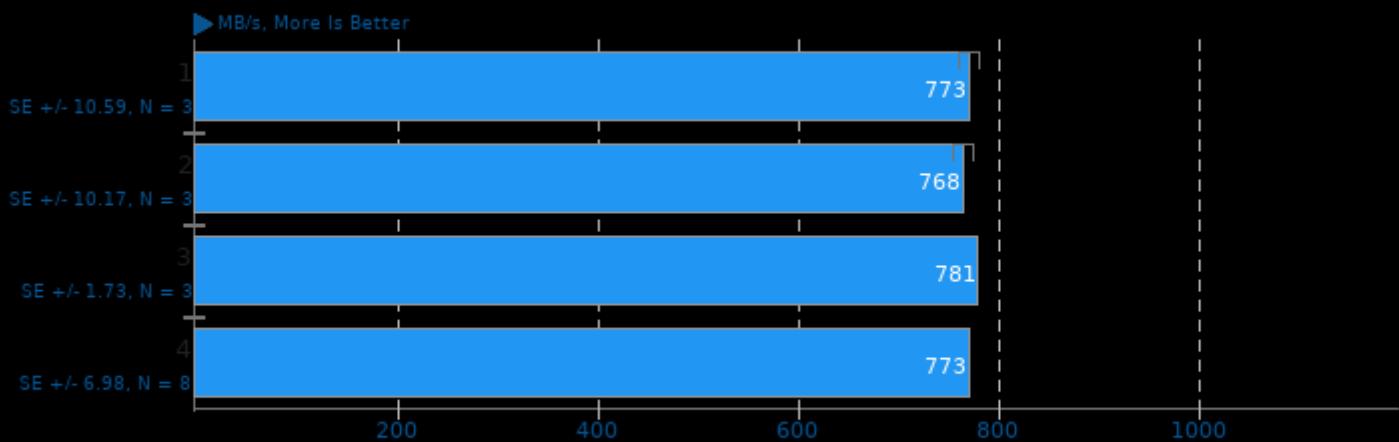
Test: Brotli 2 - Process: Compression



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

## Izbench 1.8

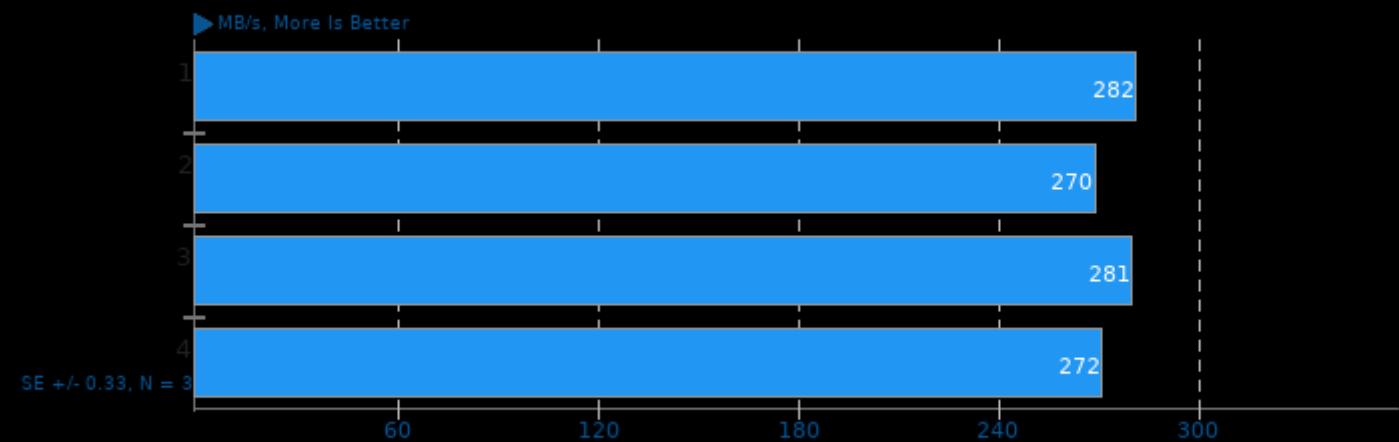
Test: Brotli 2 - Process: Decompression



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

## Izbench 1.8

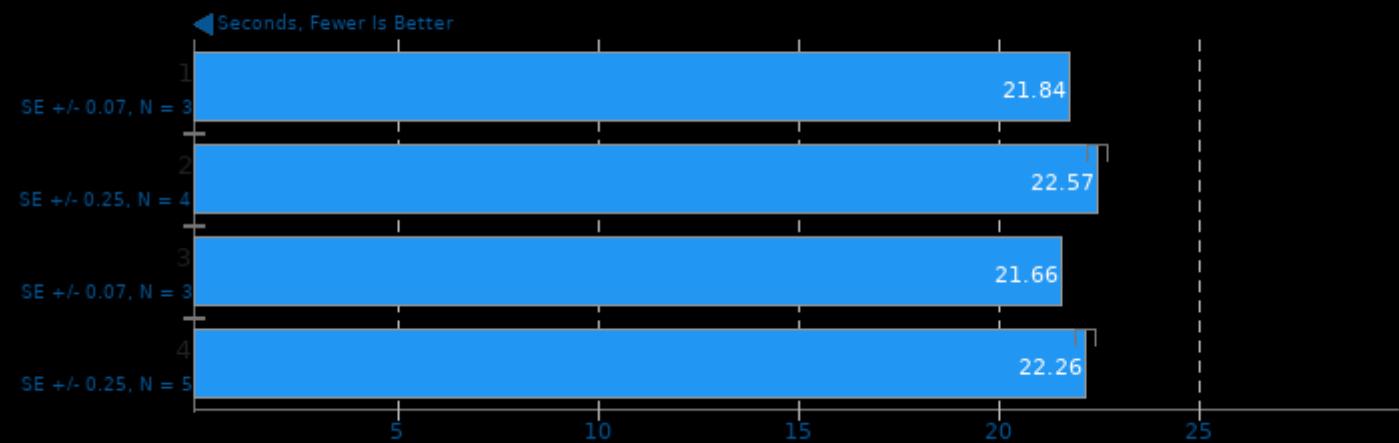
Test: Libdeflate 1 - Process: Compression



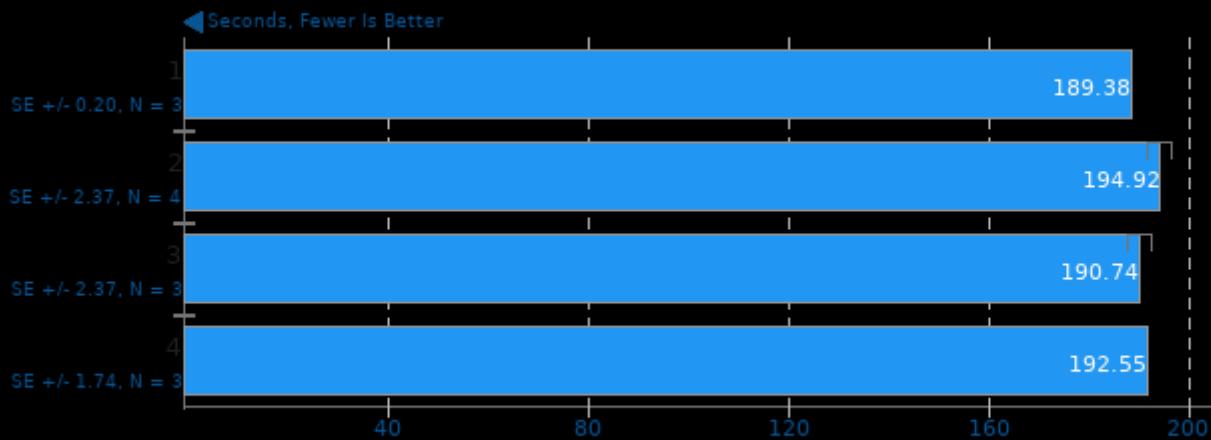
1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

## Cython Benchmark 0.29.21

Test: N-Queens



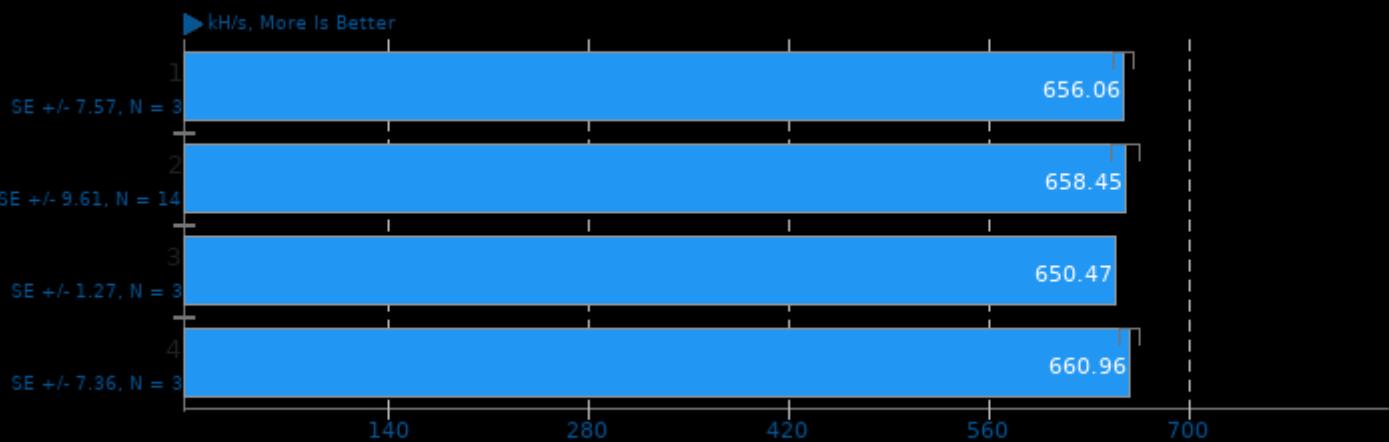
## Gcrypt Library 1.9



1. (CC) gcc options: -O2 -fvisibility=hidden -lgpg-error

## Cpuminer-Opt 3.15.5

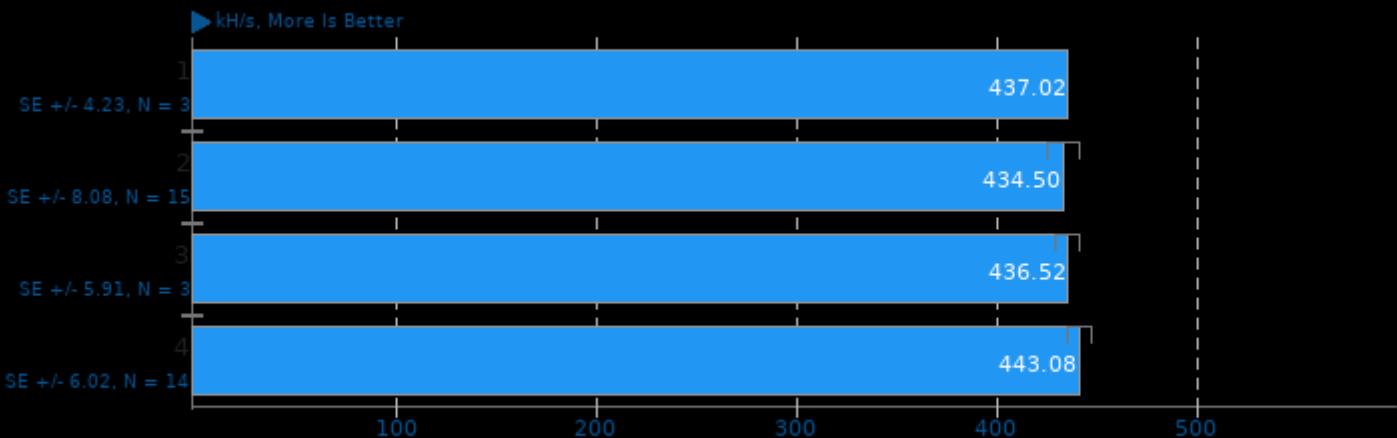
Algorithm: Magi



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

## Cpuminer-Opt 3.15.5

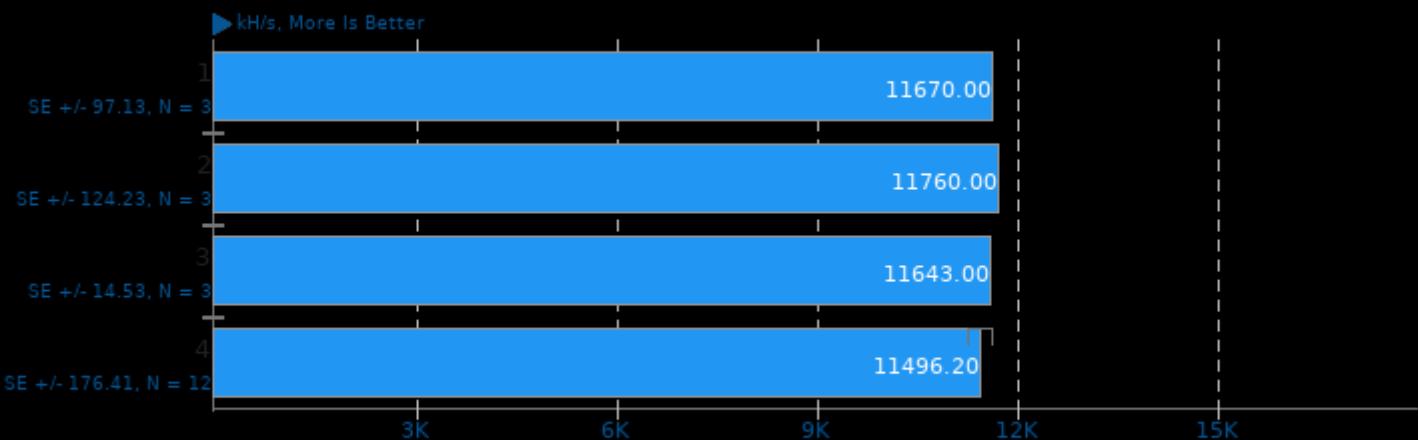
Algorithm: x25x



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

## Cpuminer-Opt 3.15.5

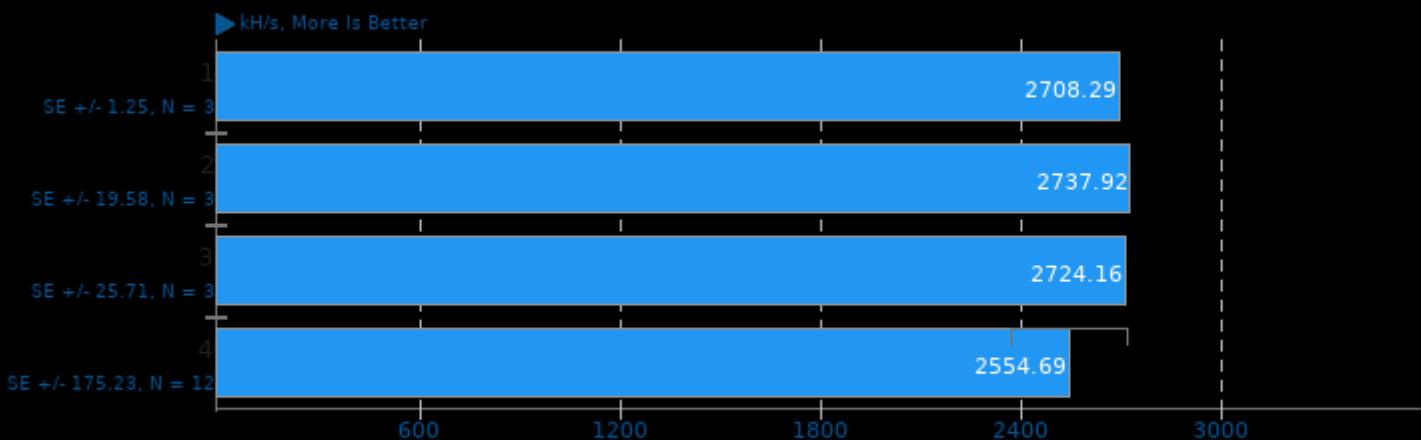
Algorithm: Deepcoin



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

## Cpuminer-Opt 3.15.5

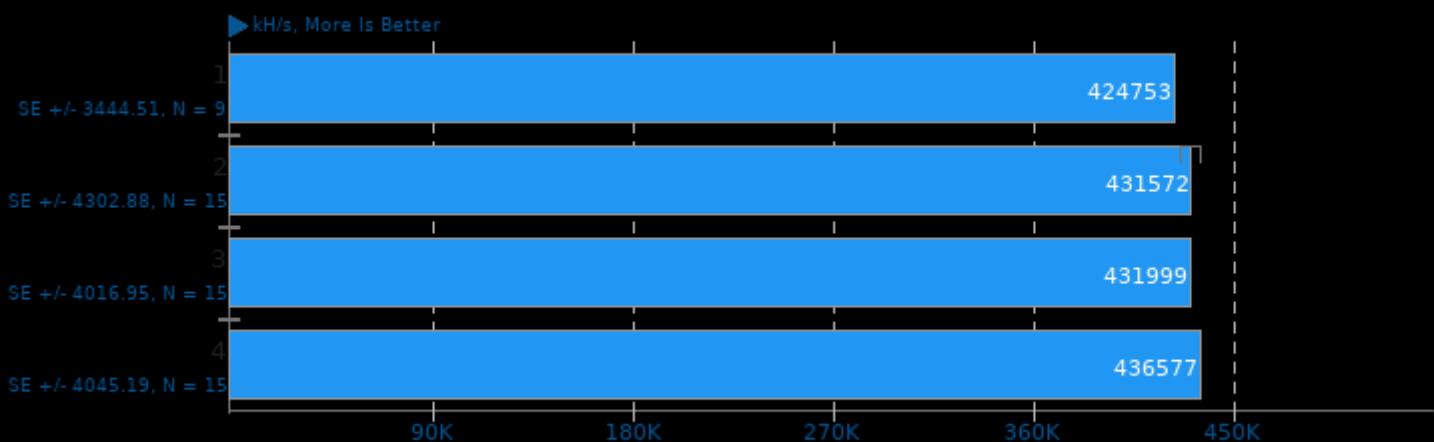
Algorithm: Ringcoin



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

## Cpuminer-Opt 3.15.5

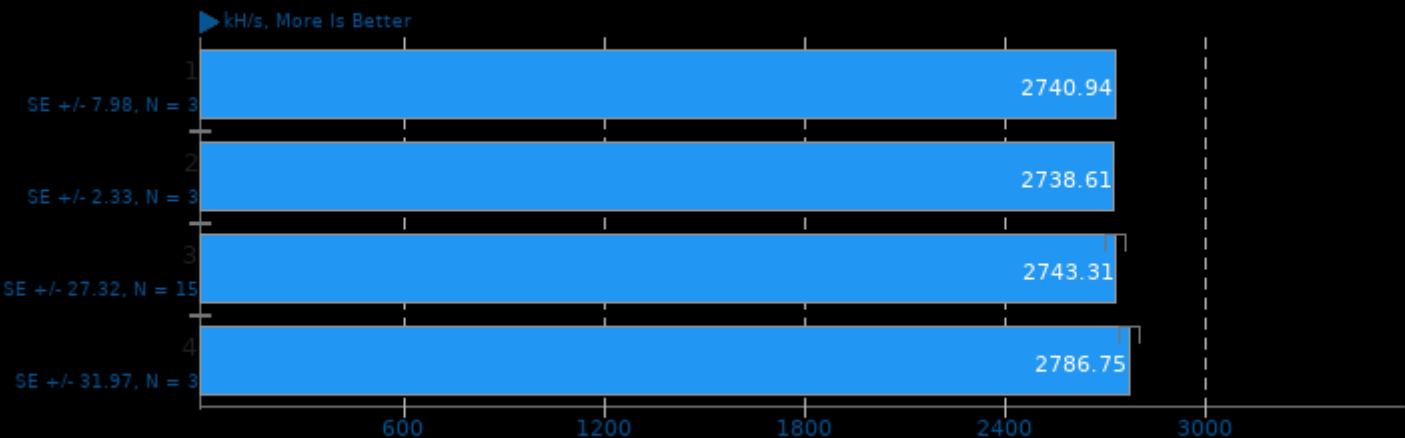
Algorithm: Blake-2 S



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

## Cpuminer-Opt 3.15.5

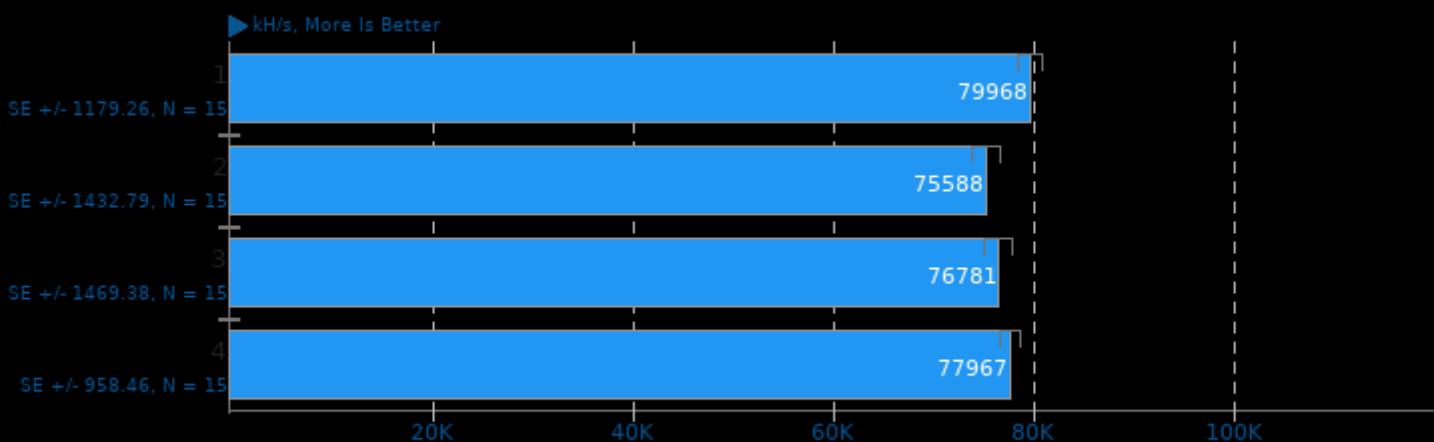
Algorithm: Garlicoin



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

## Cpuminer-Opt 3.15.5

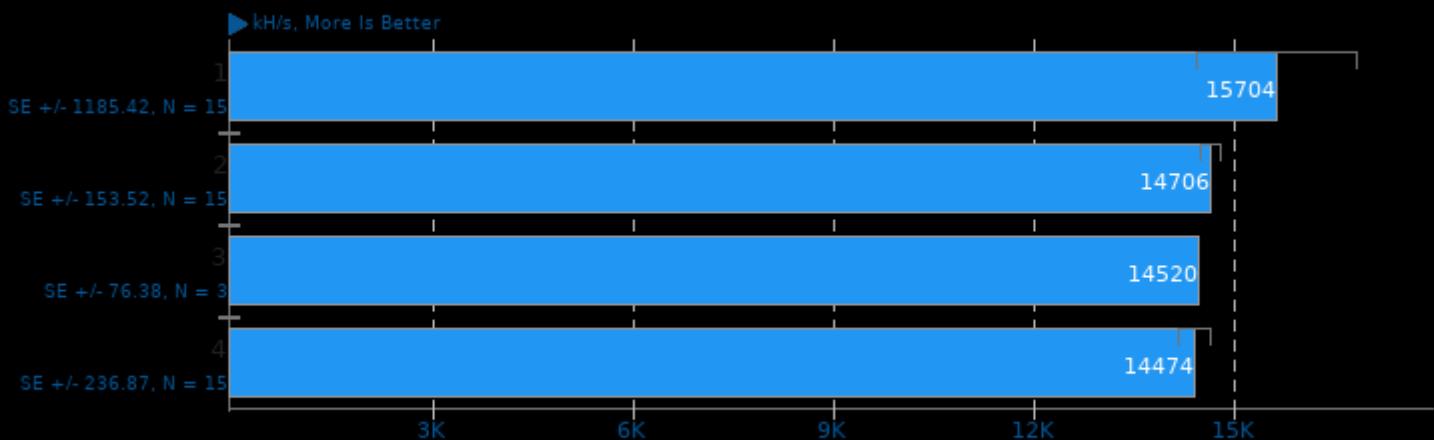
Algorithm: Skeincoin



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

## Cpuminer-Opt 3.15.5

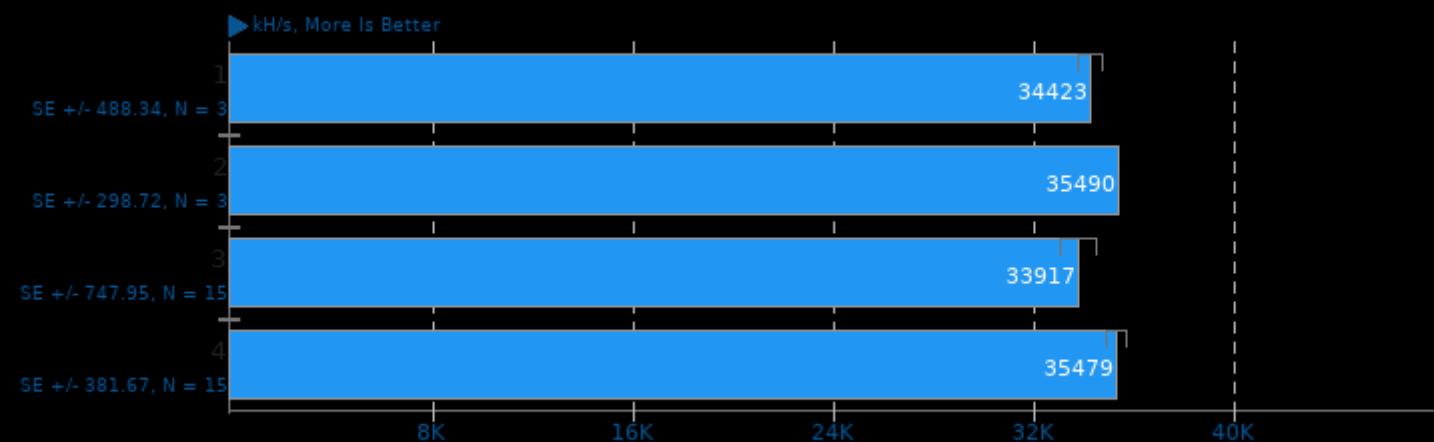
Algorithm: Myriad-Groestl



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

## Cpuminer-Opt 3.15.5

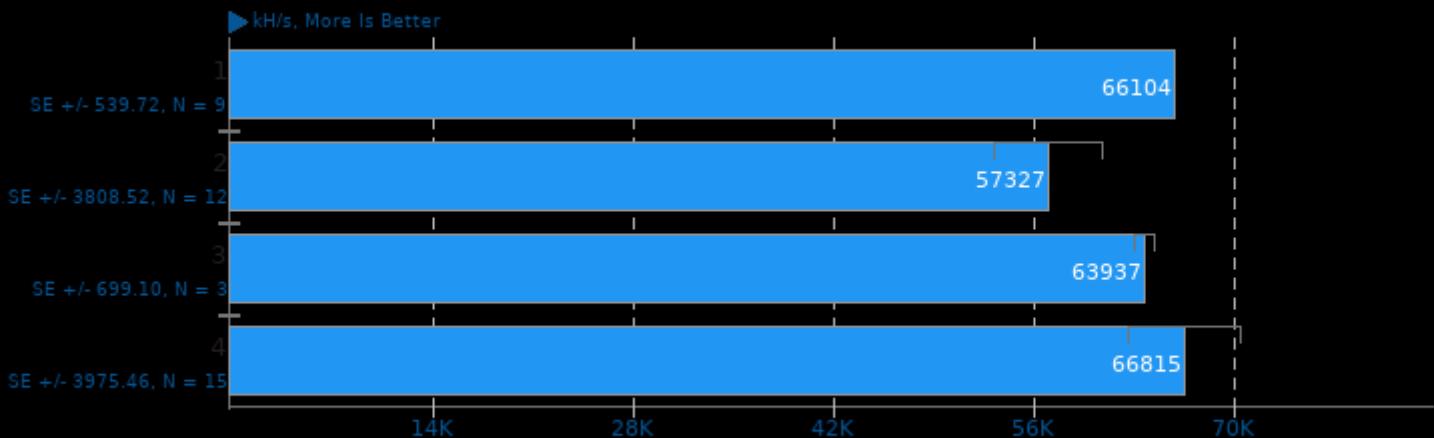
Algorithm: LBC, LBRY Credits



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

**Cpuminer-Opt 3.15.5**

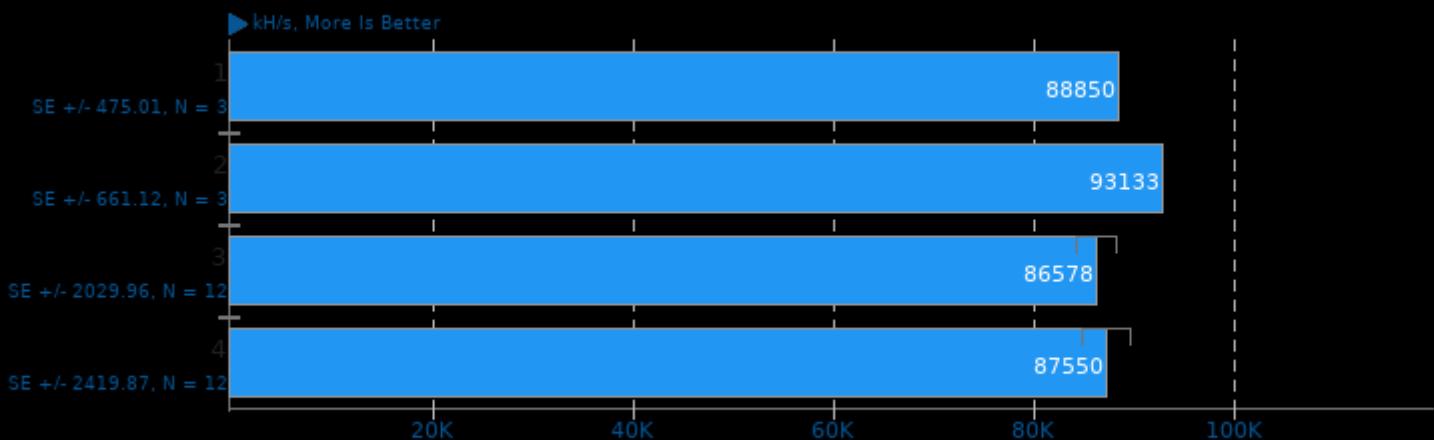
Algorithm: Quad SHA-256, Pyrite



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

**Cpuminer-Opt 3.15.5**

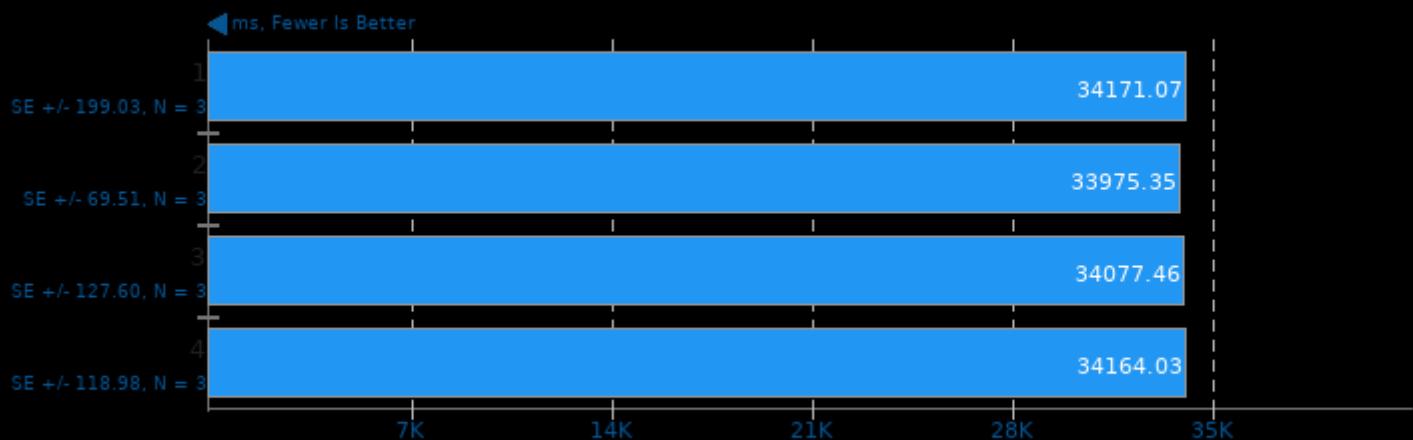
Algorithm: Triple SHA-256, Onecoin



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

**FinanceBench 2016-07-25**

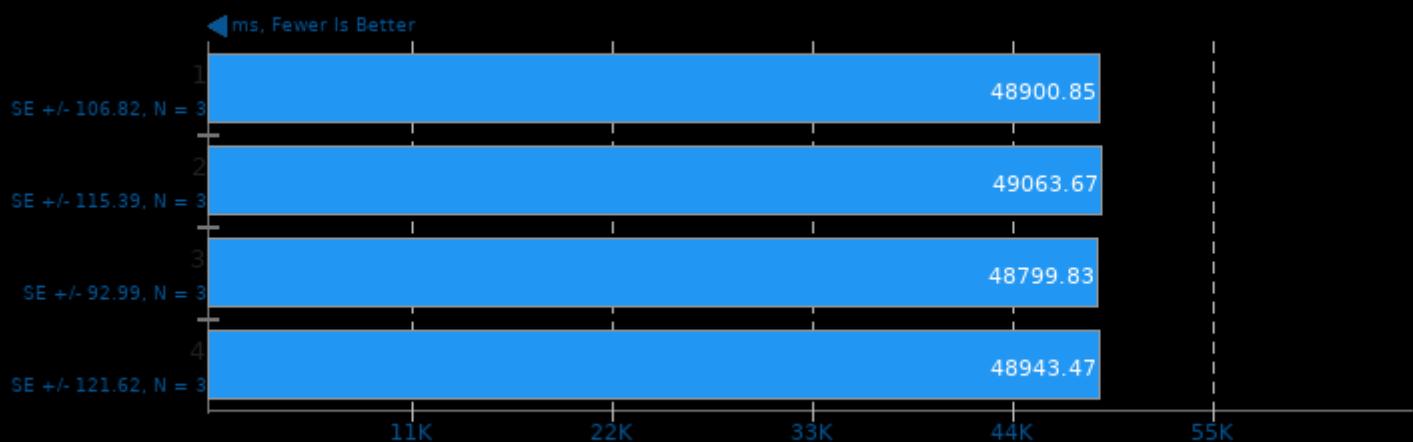
Benchmark: Repo OpenMP



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

**FinanceBench 2016-07-25**

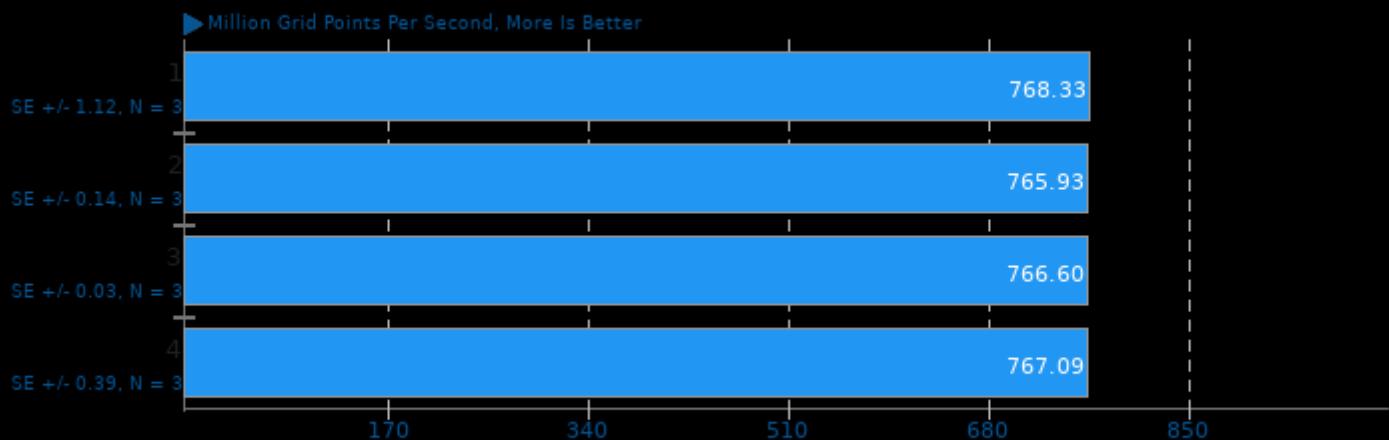
Benchmark: Bonds OpenMP



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

## ASKAP 1.0

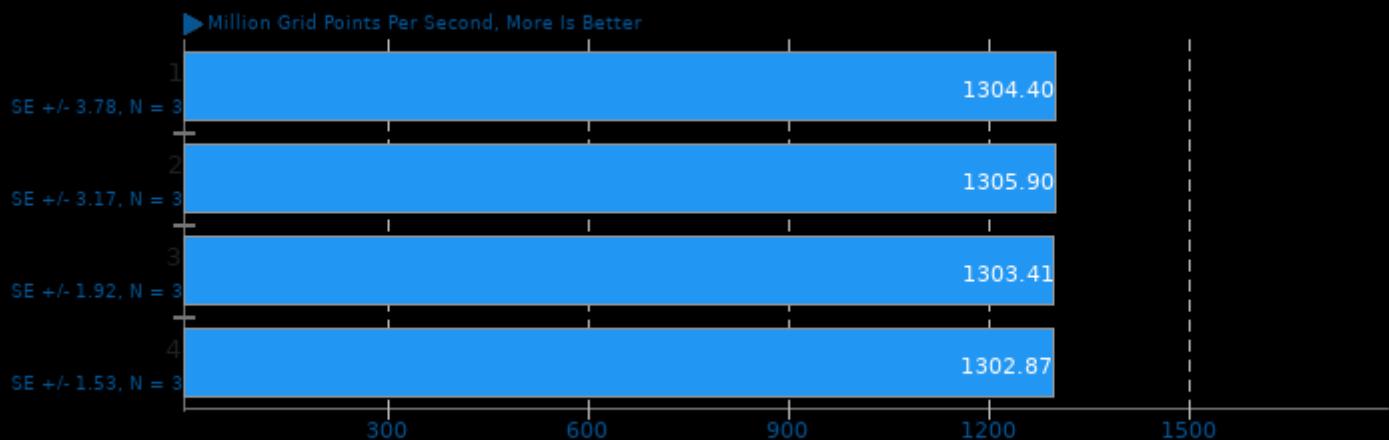
Test: tConvolve MT - Gridding



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

## ASKAP 1.0

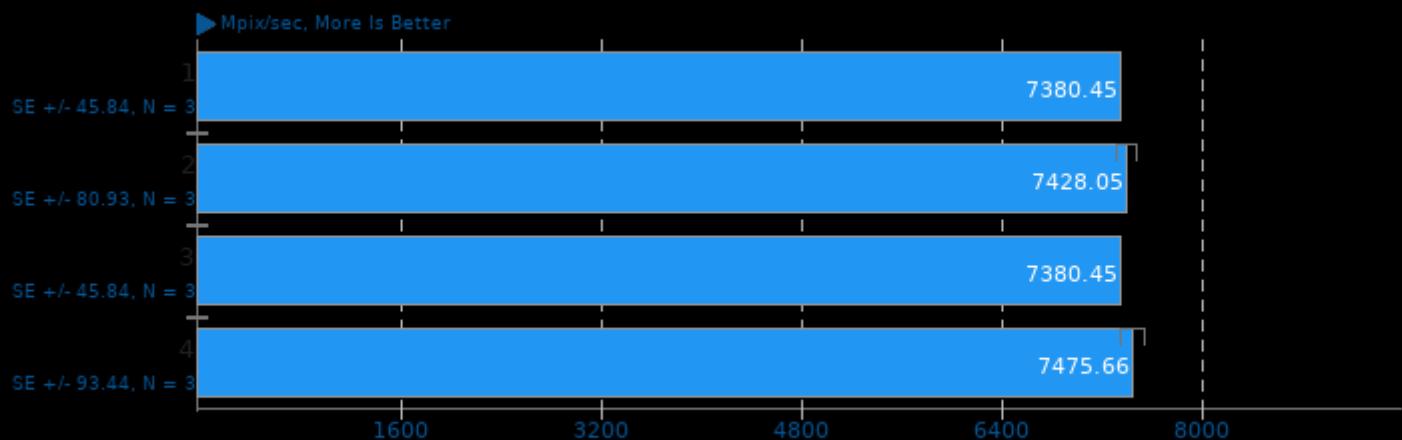
Test: tConvolve MT - Degridding



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

## ASKAP 1.0

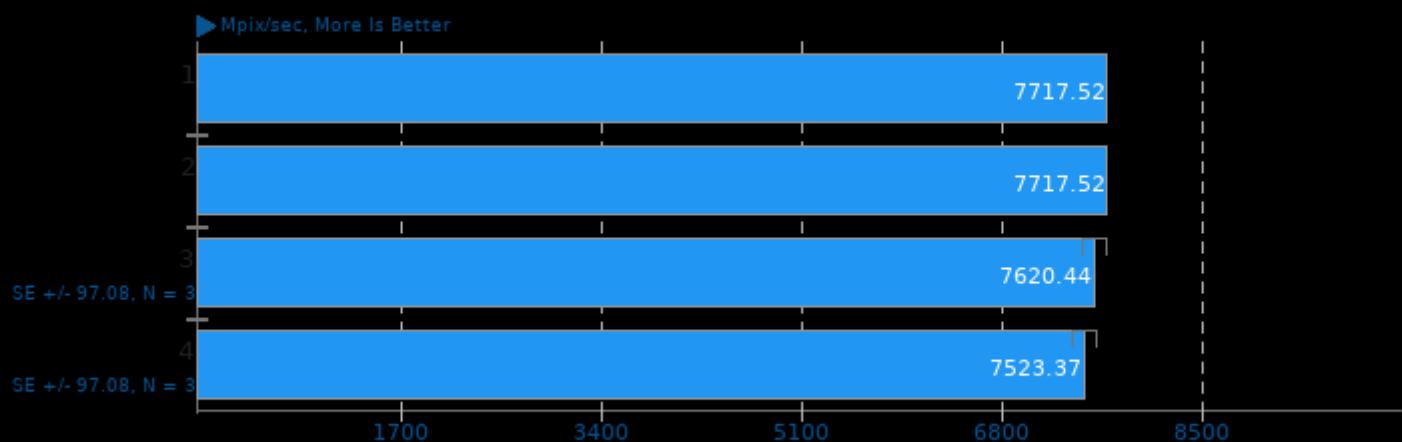
Test: tConvolve MPI - Degridding



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

## ASKAP 1.0

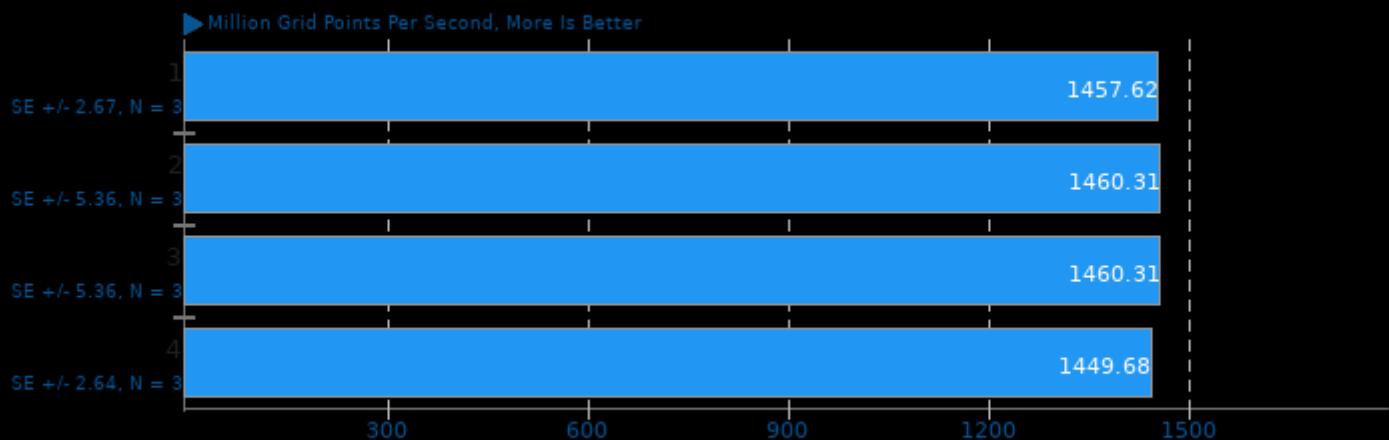
Test: tConvolve MPI - Gridding



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

## ASKAP 1.0

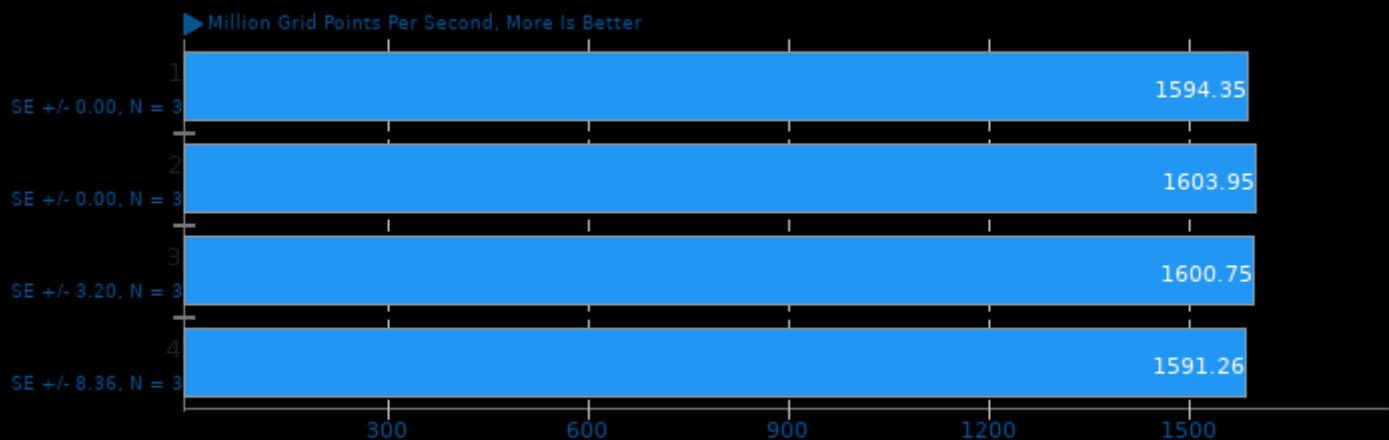
Test: tConvolve OpenMP - Gridding



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

## ASKAP 1.0

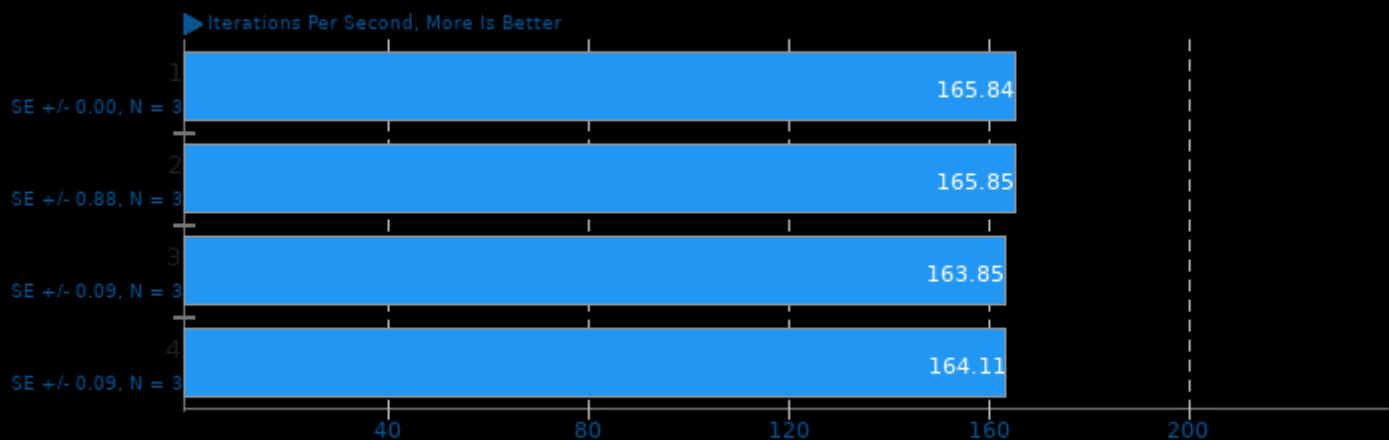
Test: tConvolve OpenMP - Degridding



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

## ASKAP 1.0

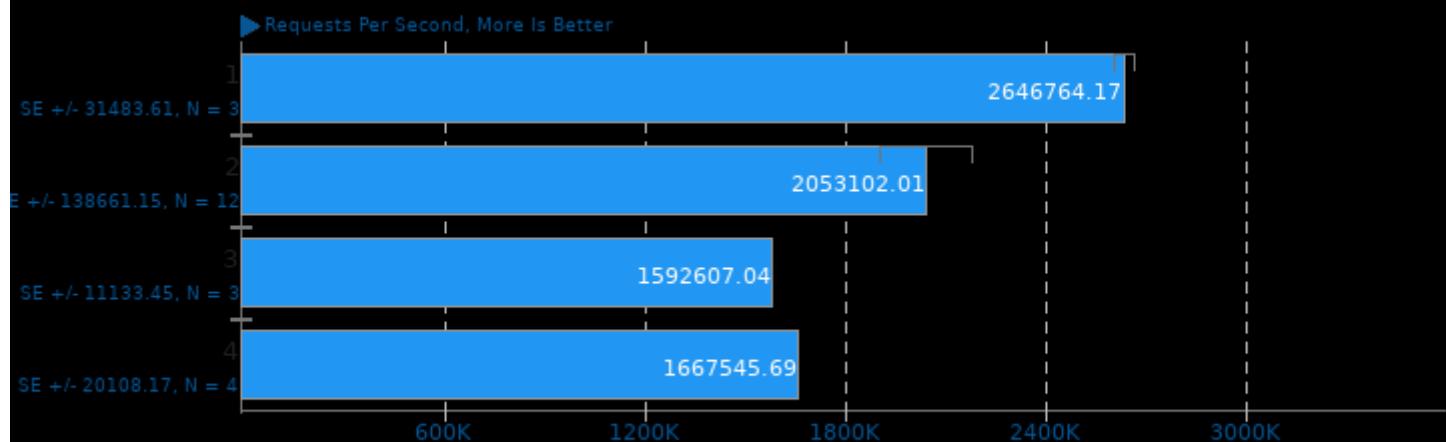
Test: Hogbom Clean OpenMP



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

## Redis 6.0.9

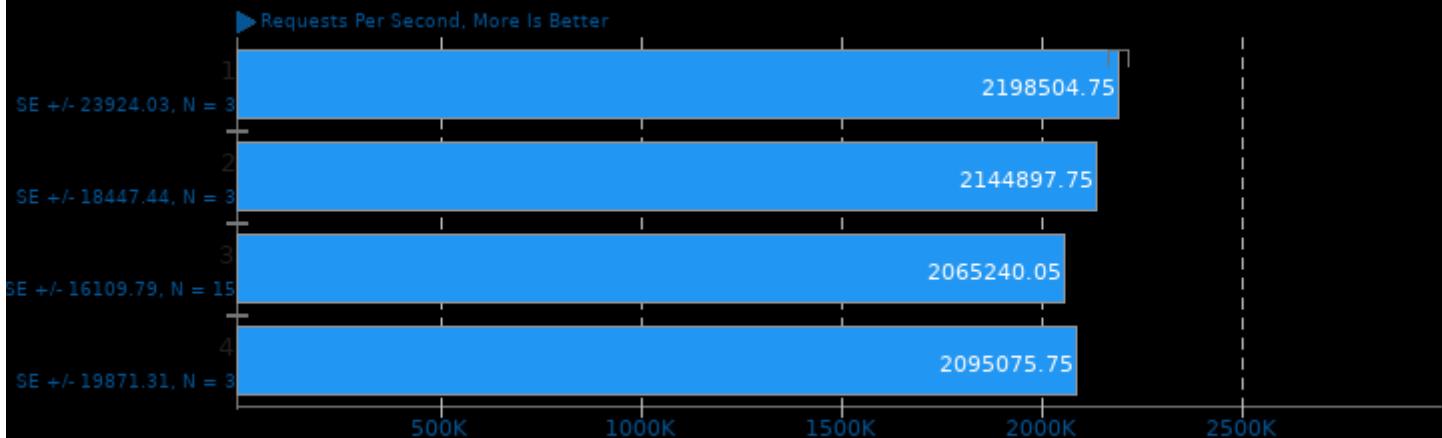
Test: LPOP



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

## Redis 6.0.9

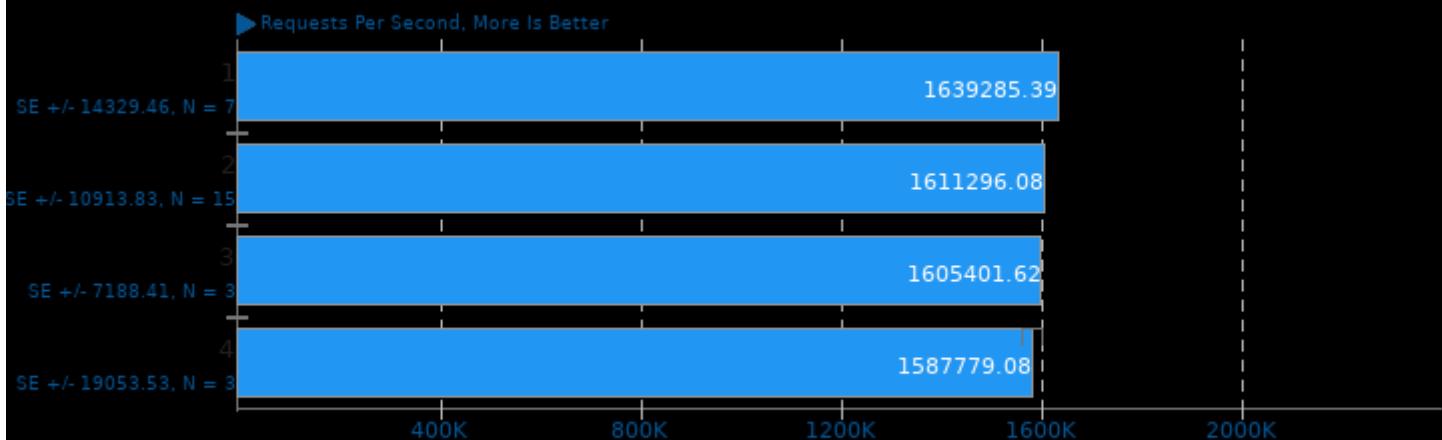
Test: SADD



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

## Redis 6.0.9

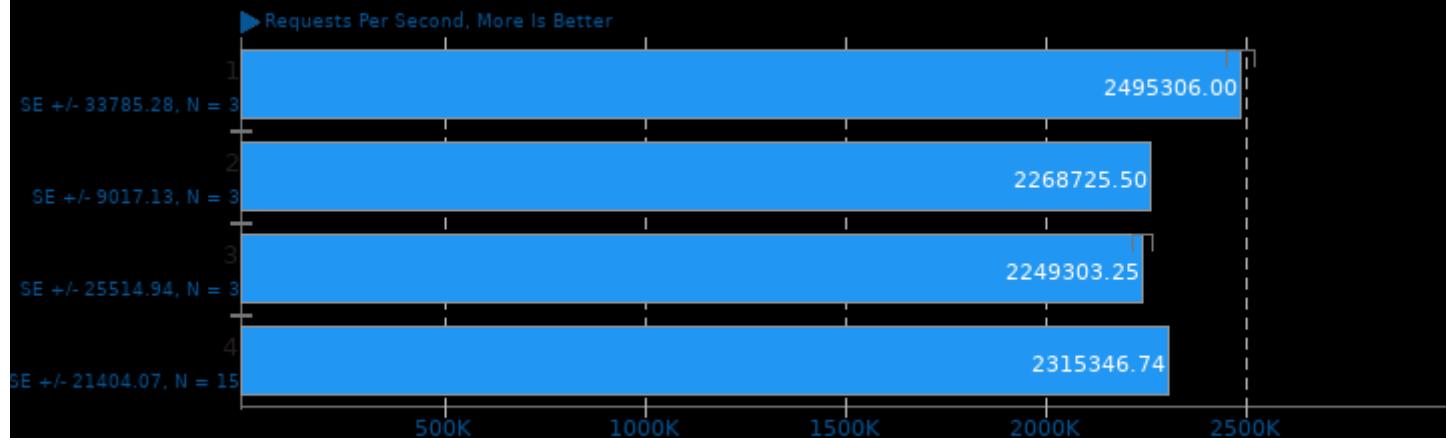
Test: LPUSH



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

## Redis 6.0.9

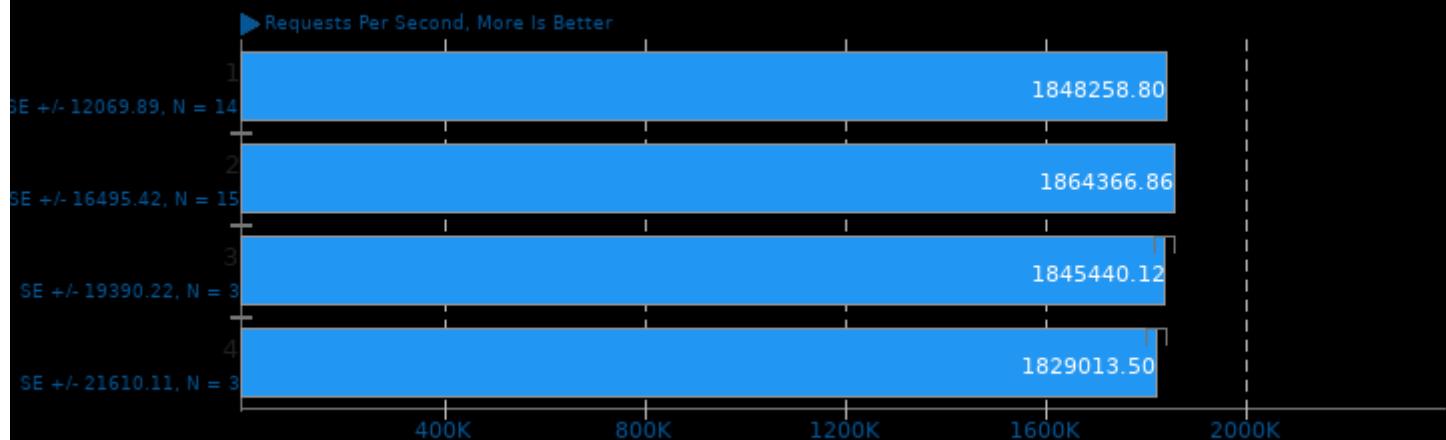
Test: GET



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

## Redis 6.0.9

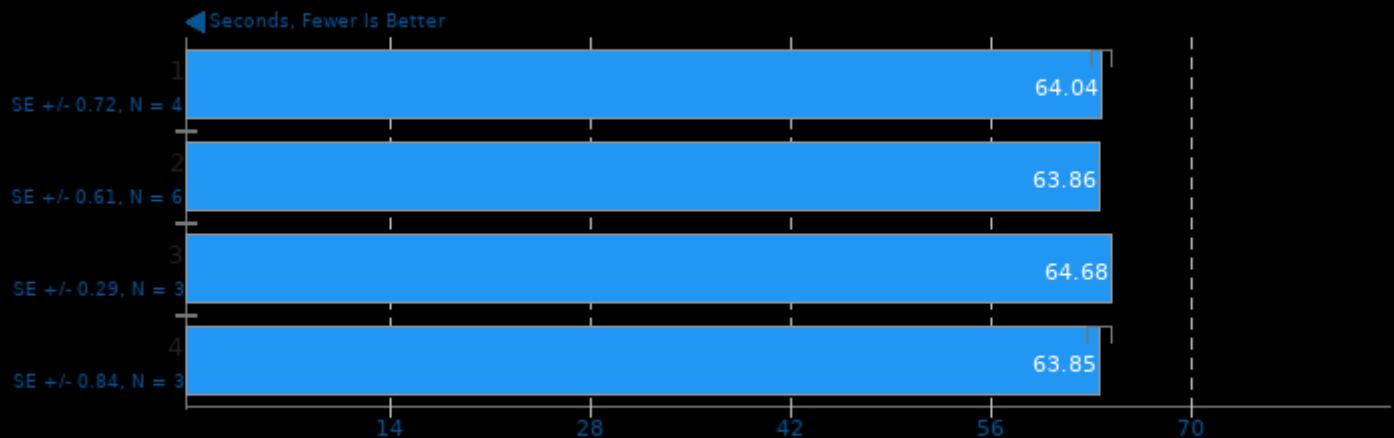
Test: SET



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

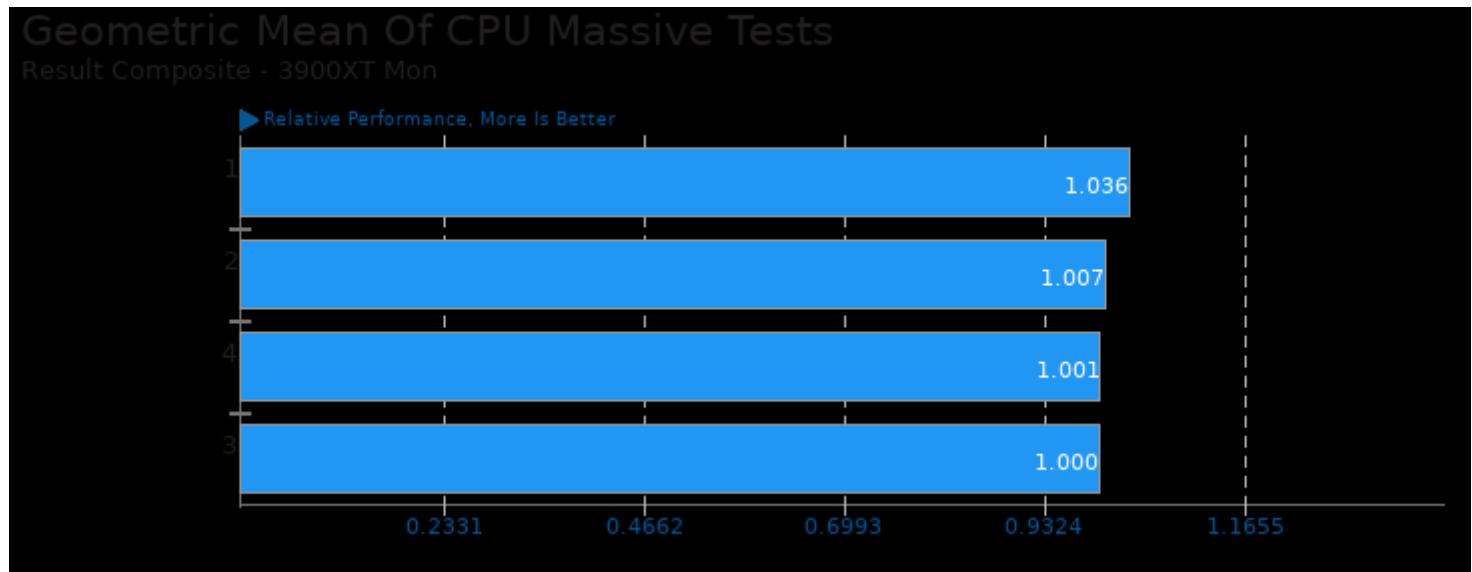
**GnuPG 2.2.27**

2.7GB Sample File Encryption

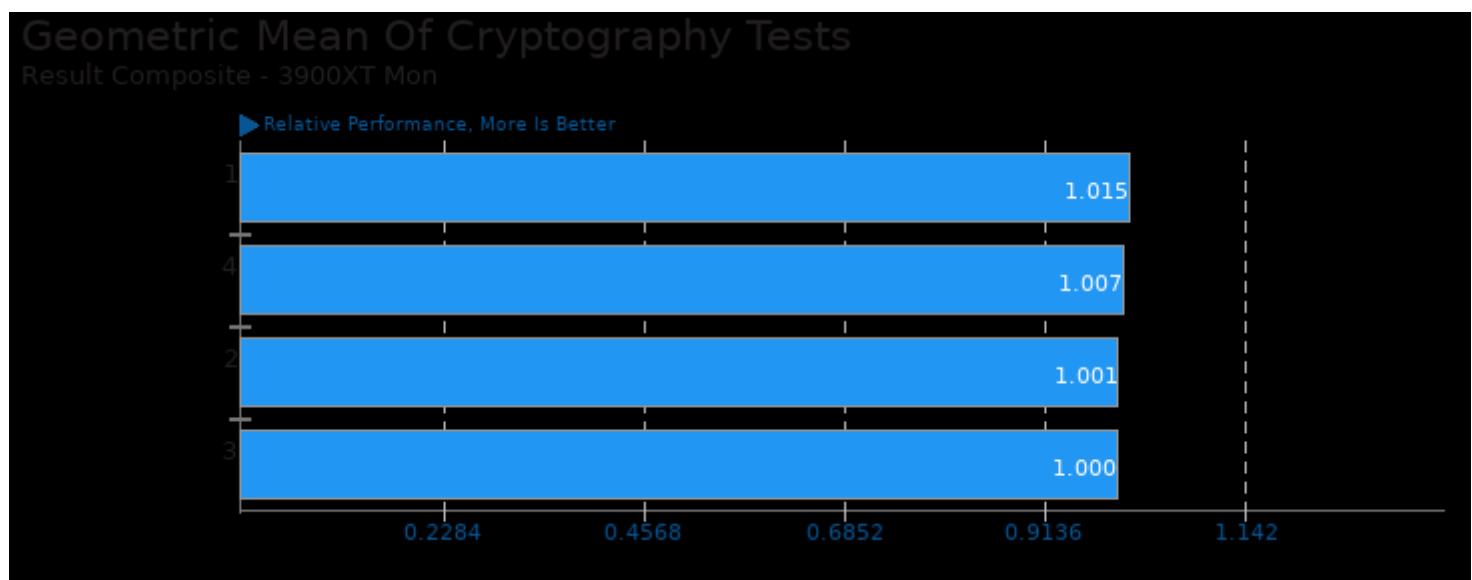


1. (CC) gcc options: -O2

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



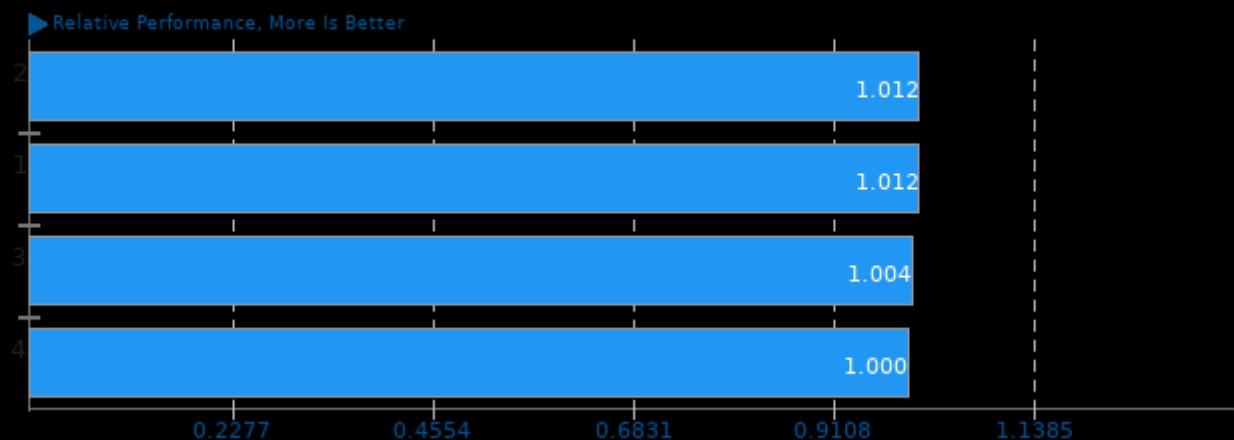
Geometric mean based upon tests: pts/cython-bench, pts/lzbench, pts/npb, pts/redis and pts/cpuminer-opt



Geometric mean based upon tests: pts/gnupg, pts/gcrypt and pts/cpuminer-opt

## Geometric Mean Of Finance Tests

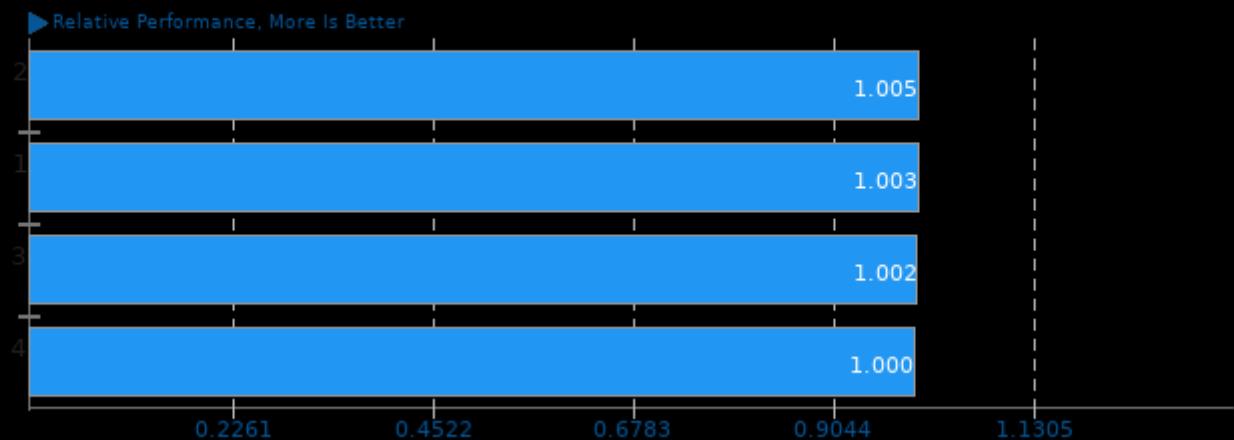
Result Composite - 3900XT Mon



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

## Geometric Mean Of HPC - High Performance Computing Tests

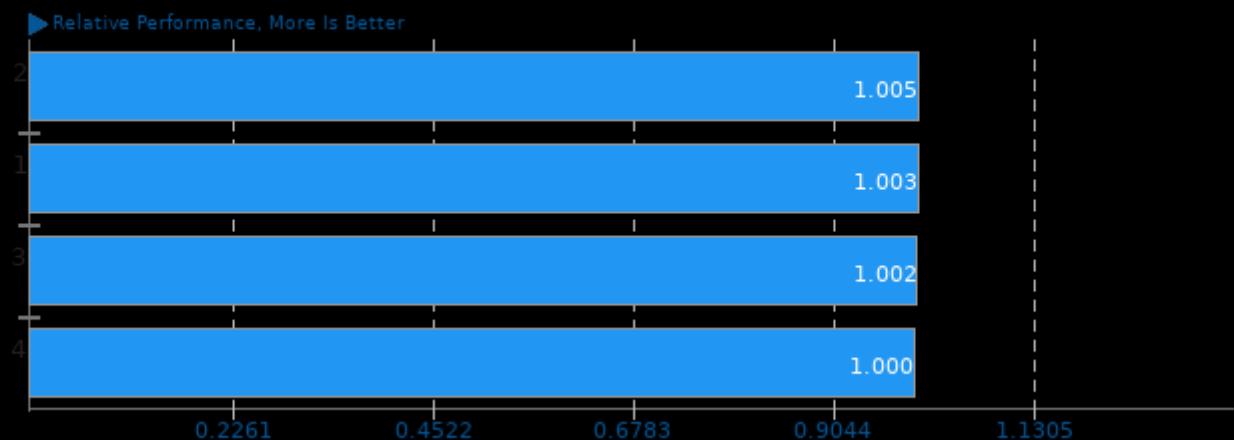
Result Composite - 3900XT Mon



Geometric mean based upon tests: pts/npb and pts/askap

## Geometric Mean Of MPI Benchmarks Tests

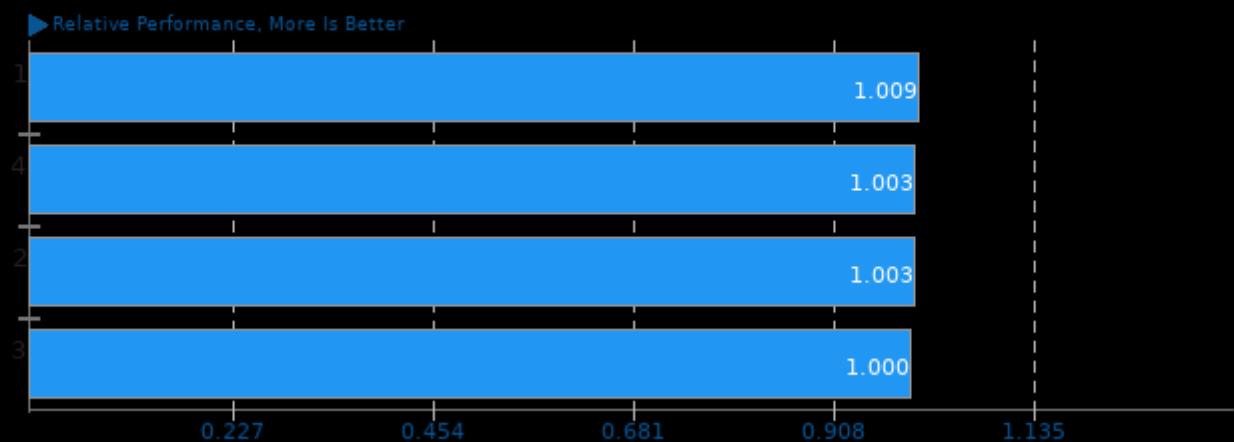
Result Composite - 3900XT Mon



Geometric mean based upon tests: pts/askap and pts/npb

## Geometric Mean Of Multi-Core Tests

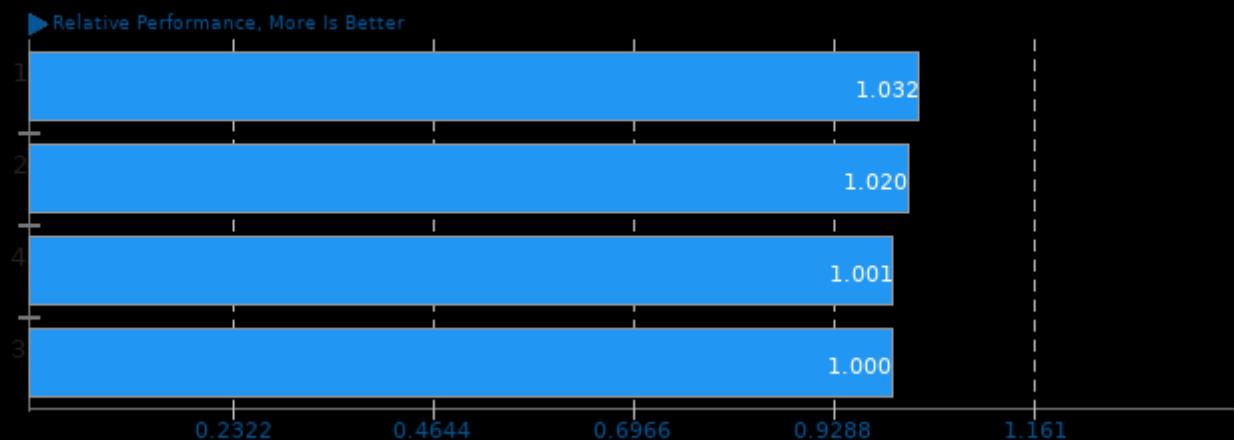
Result Composite - 3900XT Mon



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

## Geometric Mean Of OpenMPI Tests

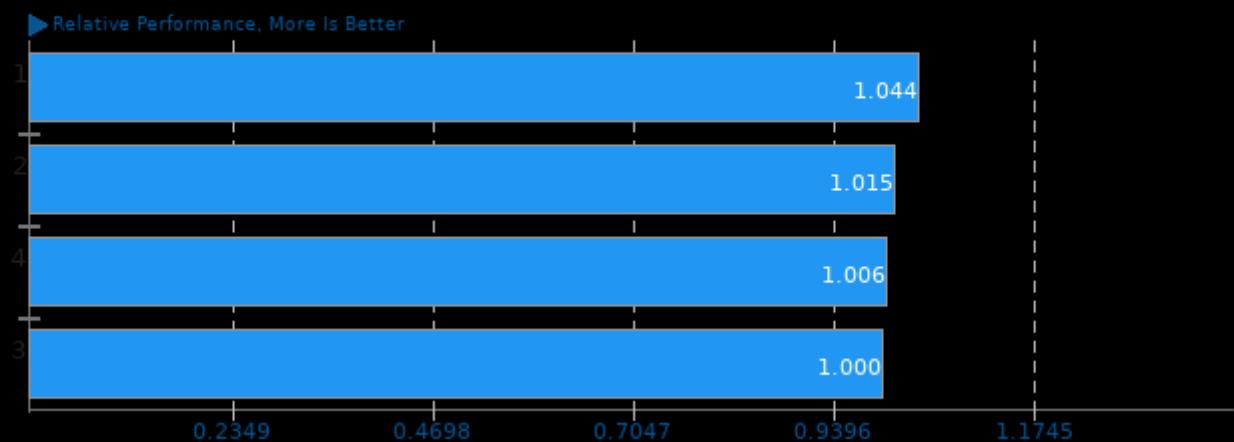
Result Composite - 3900XT Mon



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

## Geometric Mean Of Server CPU Tests

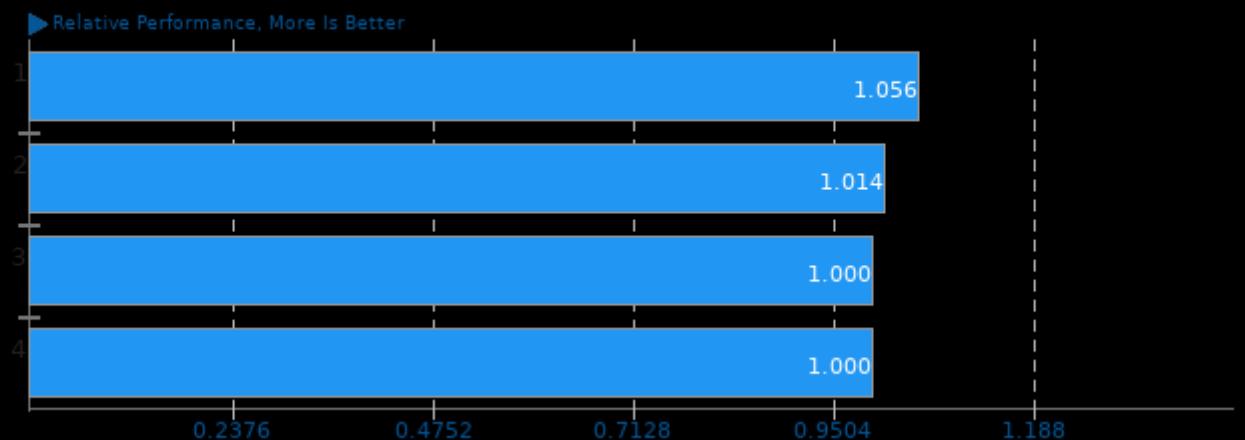
Result Composite - 3900XT Mon



Geometric mean based upon tests: pts/npb, pts/redis, pts/cython-bench and pts/cpuminer-opt

## Geometric Mean Of Single-Threaded Tests

Result Composite - 3900XT Mon



Geometric mean based upon tests: pts/lzbench, pts/gnupg and pts/redis

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 08:20.*