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4960x-2021

Intel Core i7-4960X testing with a MSI X79MA-GD45 (MS-7738) v1.0 (V3.8 BIOS) and AMD FirePro V4800 1GB on Ubuntu 20.10 via the Phoronix Test Suite.

Automated Executive Summary

3 had the most wins, coming in first place for 34% of the tests.

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

Redis (Test: LPOP) at 1.178x

Mobile Neural Network (Model: mobilenet-v1-1.0) at 1.116x

Mobile Neural Network (Model: MobileNetV2_224) at 1.063x

ASKAP (Test: tConvolve MT - Gridding) at 1.037x

ASKAP (Test: tConvolve MPI - Degridding) at 1.036x

Redis (Test: LPUSH) at 1.031x

Izbench (Test: XZ 0 - Process: Compression) at 1.03x

ASKAP (Test: tConvolve MPI - Gridding) at 1.027x

Kripke at 1.021x

Izbench (Test: Brotli 2 - Process: Compression) at 1.019x.

Test Systems:

1

1a

2

3

Processor: Intel Core i7-4960X @ 4.00GHz (6 Cores / 12 Threads), Motherboard: MSI X79MA-GD45 (MS-7738) v1.0 (V3.8 BIOS), Chipset: Intel Xeon E7 v2/Xeon, Memory: 8GB, Disk: VisionTek 240GB, Graphics: AMD FirePro V4800 1GB, Audio: Realtek ALC892, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 20.10, Kernel: 5.8.0-33-generic (x86_64), Desktop: GNOME Shell 3.38.1, Display Server: X Server 1.20.9, Display Driver: modesetting 1.20.9, OpenGL: 3.3 Mesa 20.2.1 (LLVM 11.0.0), Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

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

Processor Notes: Scaling Governor: intel_cpufreq ondemand - CPU Microcode: 0x42e

Graphics Notes: GLAMOR

Python Notes: Python 3.8.6

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 + srbd: Not affected + tsx_async_abort: Not affected

	1	1a	2	3
QuantLib (MFLOPS)	1565		1564	1553
Normalized	100%		99.94%	99.23%
Standard Deviation	1.1%		0.9%	1.6%
NAS Parallel Benchmarks - EP.C	552.07		578.92	547.09
(Mop/s)				
Normalized	95.36%		100%	94.5%
Standard Deviation	2.4%		0.5%	6.5%
NAS Parallel Benchmarks - EP.D	578.24		588.19	579.26
(Mop/s)				
Normalized	98.31%		100%	98.48%
Standard Deviation	2.7%		0.9%	0.9%
NAS Parallel Benchmarks - LU.C	10854		10883	10940
(Mop/s)				
Normalized	99.22%		99.48%	100%
Standard Deviation	0.2%		0.3%	0.9%
CloverLeaf - L.E.H (sec)	341.50		344.10	340.22
Normalized	99.63%		98.87%	100%
Standard Deviation	0.2%		0.4%	0.1%

CP2K Molecular Dynamics - 1519	1511	1518
Fayalite-FIST Data (sec)		
Normalized	99.48%	
Izbench - XZ 0 - Compression (MB/s) 33	33	34
Normalized	97.06%	
Standard Deviation		
Izbench - XZ 0 - Decompression	106	
Izbench - Zstd 1 - Compression (MB/s) 408	410	410
Normalized	99.51%	
Standard Deviation	0.3%	
Izbench - Zstd 1 - Decompression 1362	1363	1362
Normalized	99.93%	
Standard Deviation	0.2%	
Izbench - Zstd 8 - Compression (MB/s) 73	73	73
Izbench - Zstd 8 - Decompression 1431	1435	1432
Normalized	99.72%	
Standard Deviation	0.3%	
Izbench - Crush 0 - Compression	82	
Standard Deviation	1.2%	
Izbench - Crush 0 - Decompression 474 (MB/s)	473	473
Normalized	100%	
Standard Deviation		
Izbench - Brotli 0 - Compression	415	415
Standard Deviation	0.1%	
Izbench - Brotli 0 - Decompression 545 (MB/s)	544	544
Normalized	100%	
Standard Deviation		
Izbench - Brotli 2 - Compression	158	
Normalized	99.37%	
Standard Deviation		
Izbench - Brotli 2 - Decompression 634 (MB/s)	634	628
Normalized	100%	
Standard Deviation	0.2%	
Izbench - Libdeflate 1 - Compression (MB/s)	200	200
Standard Deviation		0.3%
Algebraic Multi-Grid Benchmark	126186033	126339000
(Figure Of Merit)		
Normalized	99.88%	
Standard Deviation	0.1%	
Pennant - sedovbig (Hydro Cycle Time - sec)	219.6609	220.7694
Normalized	100%	
Standard Deviation	0.1%	
Pennant - leblancbig (Hydro Cycle Time - sec)	159.6349	159.0102
Normalized	99.49%	
Standard Deviation	1.1%	

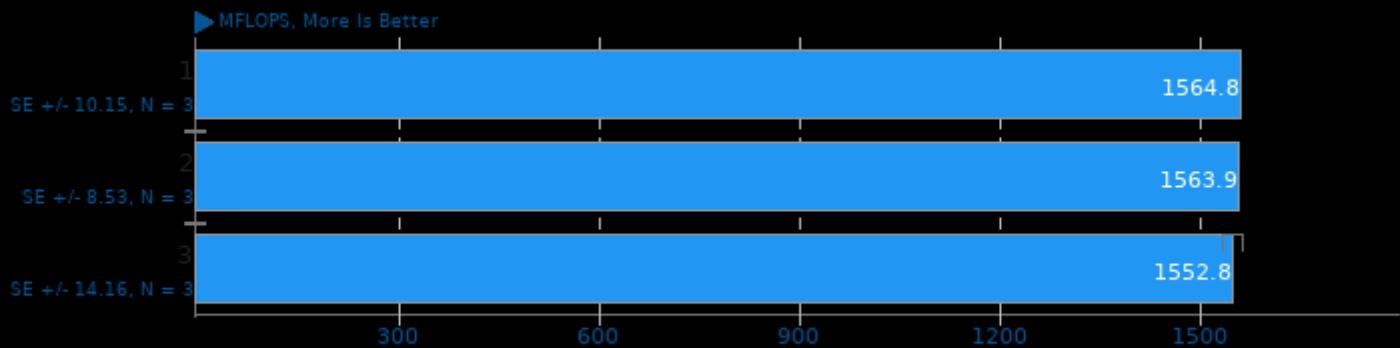
QMCPACK - simple-H2O (Execution Time - sec)	53.256	52.471	52.293
Normalized	98.19%	99.66%	100%
Standard Deviation	3.7%	3.6%	0.9%
OpenFOAM - Motorbike 30M (sec)	612.98	612.76	612.01
Normalized	99.84%	99.88%	100%
Standard Deviation	0.1%	0.1%	0.1%
LAMMPS Molecular Dynamics	2.935	2.879	2.924
Simulator - Rhodopsin Protein			
Normalized	100%	98.09%	99.63%
Standard Deviation	2.2%	7.8%	6.8%
LULESH (z/s)	945.56350	951.21757	953.28322
Normalized	99.19%	99.78%	100%
Standard Deviation	0.2%	0.6%	1.2%
dav1d - Chimera 1080p (FPS)	293.74	293.88	294.20
Normalized	99.84%	99.89%	100%
Standard Deviation	0.2%	0.4%	0.2%
dav1d - Summer Nature 4K (FPS)	72.72	73.09	73.15
Normalized	99.41%	99.92%	100%
Standard Deviation	0.1%	0.1%	0.1%
dav1d - S.N.1 (FPS)	272.48	273.14	273.34
Normalized	99.69%	99.93%	100%
Standard Deviation	0.4%	0.3%	0.3%
dav1d - C.1.1.b (FPS)	72.90	73.01	72.96
Normalized	99.85%	100%	99.93%
Standard Deviation	0.2%	0.1%	0.2%
rav1e - 1 (FPS)	0.198	0.199	0.199
Normalized	99.5%	100%	100%
Standard Deviation	0.8%	0.3%	0.6%
rav1e - 5 (FPS)	0.523	0.524	0.524
Normalized	99.81%	100%	100%
Standard Deviation	0.4%	0.2%	0.2%
rav1e - 6 (FPS)	0.651	0.655	0.654
Normalized	99.39%	100%	99.85%
Standard Deviation	0.2%	0.5%	0.3%
rav1e - 10 (FPS)	1.778	1.782	1.789
Normalized	99.39%	99.61%	100%
Standard Deviation	0.4%	0.1%	0.8%
Timed Godot Game Engine	318.343	317.350	318.316
Compilation - Time To Compile (sec)			
Normalized	99.69%	100%	99.7%
Standard Deviation	0.4%	0.1%	0.3%
Gcrypt Library (sec)	268.853	268.424	268.594
Normalized	99.84%	100%	99.94%
Standard Deviation	0.2%	0.5%	0.4%
WebP2 Image Encode - Default (sec)	7.632	7.629	7.615
Normalized	99.78%	99.82%	100%
Standard Deviation	1.2%	0.4%	0.7%
WebP2 Image Encode - Q.7.C.E.7	436.407	435.691	436.859
Normalized	99.84%	100%	99.73%
Standard Deviation	0.1%	0.2%	0.1%
WebP2 Image Encode - Q.9.C.E.7	791.188	791.017	789.525
Normalized	99.79%	99.81%	100%
Standard Deviation	0.1%	0.4%	0.2%

WebP2 Image Encode - Q.1.C.E.5	22.671	22.651	22.629
Normalized	99.81%	99.9%	100%
Standard Deviation	0.1%	0.2%	0.1%
WebP2 Image Encode - Q.1.L.C (sec)	1388	1387	1387
Normalized	99.96%	100%	99.97%
Standard Deviation	0.1%	0.1%	0.2%
Google SynthMark - VoiceMark_100 (Voices)	548.479	548.206	547.240
Normalized	100%	99.95%	99.77%
Standard Deviation	0%	0.1%	0.1%
ASKAP - tConvolve MT - Gridding (Million Grid Points/sec)	471.256	483.420	488.906
Normalized	96.39%	98.88%	100%
Standard Deviation	5.7%	5.2%	3.5%
ASKAP - tConvolve MT - Degridding (Million Grid Points/sec)	785.172	786.565	788.586
Normalized	99.57%	99.74%	100%
Standard Deviation	0.4%	0.5%	0.2%
ASKAP - tConvolve MPI - Degridding (Mpix/sec)	979.569	1015	990.445
Normalized	96.55%	100%	97.63%
Standard Deviation	2.6%	1.4%	2.9%
ASKAP - tConvolve MPI - Gridding (Mpix/sec)	1101	1072	1088
Normalized	100%	97.38%	98.85%
Standard Deviation	1%	3.2%	2.5%
ASKAP - tConvolve OpenMP - Gridding (Million Grid Points/sec)	475.089	483.634	475.962
Normalized	98.23%	100%	98.41%
Standard Deviation	6.4%	7.2%	5.4%
ASKAP - tConvolve OpenMP - Degridding (Million Grid Points/sec)	903.892	905.474	904.838
Normalized	99.83%	100%	99.93%
Standard Deviation	0.8%	0.7%	0.5%
ASKAP - H.C.O (Iterations/sec)	83.6658	84.6029	85.1549
Normalized	98.25%	99.35%	100%
Standard Deviation	1.1%	0.3%	0.2%
Redis - LPOP (Req/sec)	421116	358939	357536
Normalized	100%	85.24%	84.9%
Standard Deviation	1%	0.2%	0.8%
Redis - SADD (Req/sec)	398624	400110	400763
Normalized	99.47%	99.84%	100%
Standard Deviation	0.1%	0.5%	0.7%
Redis - LPUSH (Req/sec)	352737	344615	355245
Normalized	99.29%	97.01%	100%
Standard Deviation	0.7%	1%	0.3%
Redis - GET (Req/sec)	415048	407880	410152
Normalized	100%	98.27%	98.82%
Standard Deviation	0.4%	0.8%	0.2%
Redis - SET (Req/sec)	381871	376443	377130
Normalized	100%	98.58%	98.76%
Standard Deviation	1%	1.6%	1.3%

Mobile Neural Network - SqueezeNetV1.0 (ms)	16.227	16.901	16.466
Normalized	100%	96.01%	98.55%
Standard Deviation	2.6%	7.8%	1.3%
Mobile Neural Network - resnet-v2-50 (ms)	97.548	96.945	97.179
Normalized	99.38%	100%	99.76%
Standard Deviation	1.4%	0.3%	0.2%
Mobile Neural Network - MobileNetV2_224 (ms)	11.214	10.799	11.476
Normalized	96.3%	100%	94.1%
Standard Deviation	3.5%	5.1%	2.9%
Mobile Neural Network - mobilenet-v1-1.0 (ms)	16.874	15.146	15.124
Normalized	89.63%	99.85%	100%
Standard Deviation	5.8%	1.5%	1%
Mobile Neural Network - inception-v3 (ms)	101.724	102.443	101.691
Normalized	99.97%	99.27%	100%
Standard Deviation	0.5%	0.7%	0.3%
TNN - CPU - MobileNet v2 (ms)	322.186	323.197	322.574
Normalized	100%	99.69%	99.88%
Standard Deviation	0.2%	0.1%	0.1%
TNN - CPU - SqueezeNet v1.1 (ms)	314.380	313.238	313.335
Normalized	99.64%	100%	99.97%
Standard Deviation	0.1%	0.2%	0.1%
ONNX Runtime - yolov4 - OpenMP CPU (Inferences/min)	128	128	129
Normalized	99.22%	99.22%	100%
Standard Deviation	0.2%	0%	0%
ONNX Runtime - bertsquad-10 - OpenMP CPU (Inferences/min)	219	220	220
Normalized	99.55%	100%	100%
Standard Deviation	0.1%	0.1%	0%
ONNX Runtime - fcn-resnet101-11 - OpenMP CPU (Inferences/min)	21	21	21
Normalized	0%	0%	0%
ONNX Runtime - shufflenet-v2-10 - OpenMP CPU (Inferences/min)	7911	7776	7911
Normalized	100%	98.29%	100%
Standard Deviation	0.1%	4.5%	0.6%
ONNX Runtime - super-resolution-10 - OpenMP CPU (Inferences/min)	1781	1780	1782
Normalized	99.94%	99.89%	100%
Standard Deviation	0.2%	0.2%	0.1%
GnuPG - 2.7.S.F.E (sec)	79.291	79.061	78.954
Normalized	99.57%	99.86%	100%
Standard Deviation	1.7%	1.4%	1.1%
Kripke (Throughput FoM)	20695700	20275343	20478857
Normalized	100%	97.97%	98.95%
Standard Deviation	1.2%	3%	1%

ParaView - Wavelet Volume - 1280 x 1024 (Frames / Sec)	14.08	14.16	14.17
Normalized	99.36%	99.93%	100%
Standard Deviation	0.5%	0.2%	0%
ParaView - Wavelet Volume - 1280 x 1024 (MiVoxels / Sec)	225.321	226.566	226.756
Normalized	99.37%	99.92%	100%
Standard Deviation	0.5%	0.2%	0%
ParaView - Wavelet Volume - 1920 x 1080 (Frames / Sec)	13.78	13.75	13.71
Normalized	100%	99.78%	99.49%
Standard Deviation	0%	0.3%	0%
ParaView - Wavelet Volume - 1920 x 1080 (MiVoxels / Sec)	220.405	220.081	219.405
Normalized	100%	99.85%	99.55%
Standard Deviation	0%	0.3%	0%
ParaView - Wavelet Contour - 1280 x 1024 (Frames / Sec)	14.68	14.69	14.69
Normalized	99.93%	100%	100%
Standard Deviation	0%	0%	0%
ParaView - Wavelet Contour - 1280 x 1024 (MiPolys / Sec)	152.989	153.054	153.050
Normalized	99.96%	100%	100%
Standard Deviation	0%	0%	0%
ParaView - Wavelet Contour - 1920 x 1080 (Frames / Sec)	14.58	14.57	14.57
Normalized	100%	99.93%	99.93%
Standard Deviation	0%	0%	0%
ParaView - Wavelet Contour - 1920 x 1080 (MiPolys / Sec)	151.870	151.848	151.852
Normalized	100%	99.99%	99.99%
Standard Deviation	0%	0%	0%

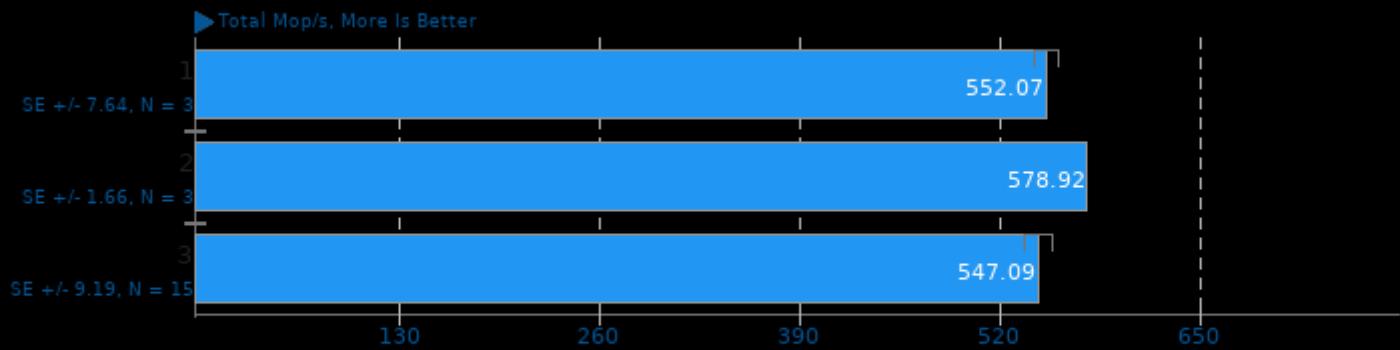
QuantLib 1.21



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

NAS Parallel Benchmarks 3.4

Test / Class: EP.C

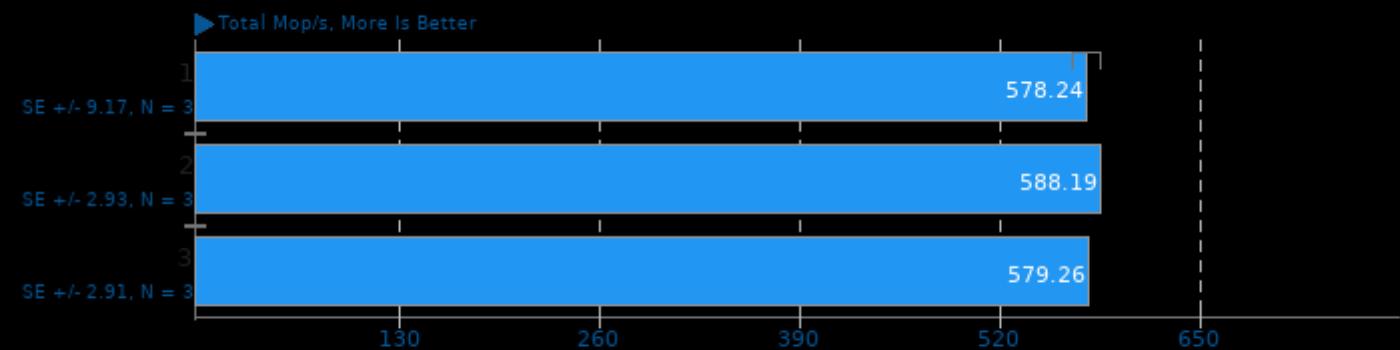


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen rte -lopen pal -lhwloc -ldl -levent -levent_pthreads -lutil

2. Open MPI 4.0.3

NAS Parallel Benchmarks 3.4

Test / Class: EP.D

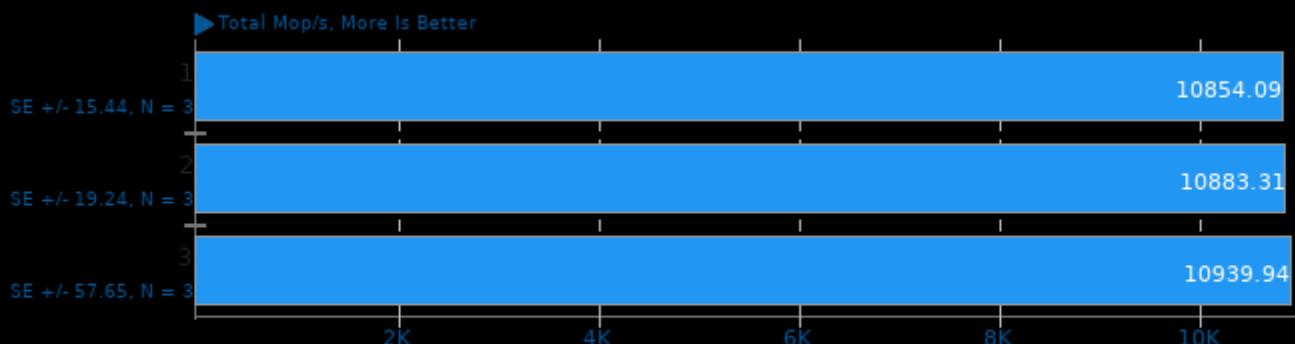


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen rte -lopen pal -lhwloc -ldl -levent -levent_pthreads -lutil

2. Open MPI 4.0.3

NAS Parallel Benchmarks 3.4

Test / Class: LU.C

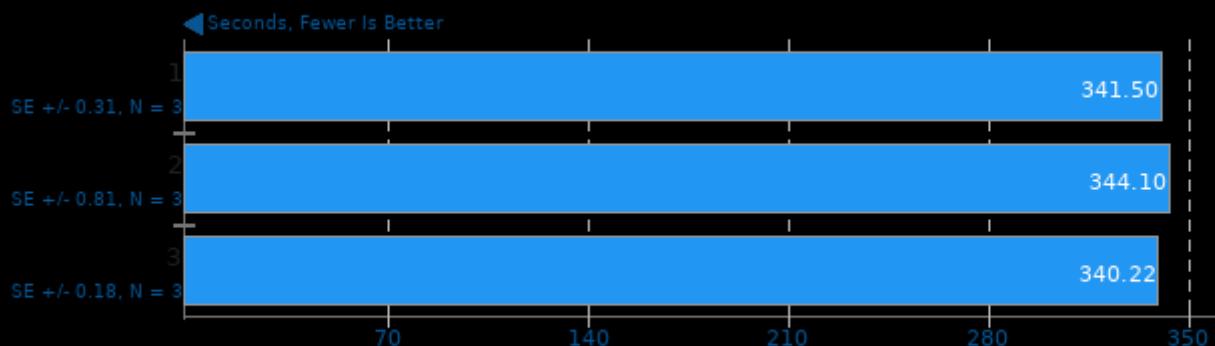


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -ldl -levent -levent_pthreads -lutil

2. Open MPI 4.0.3

CloverLeaf

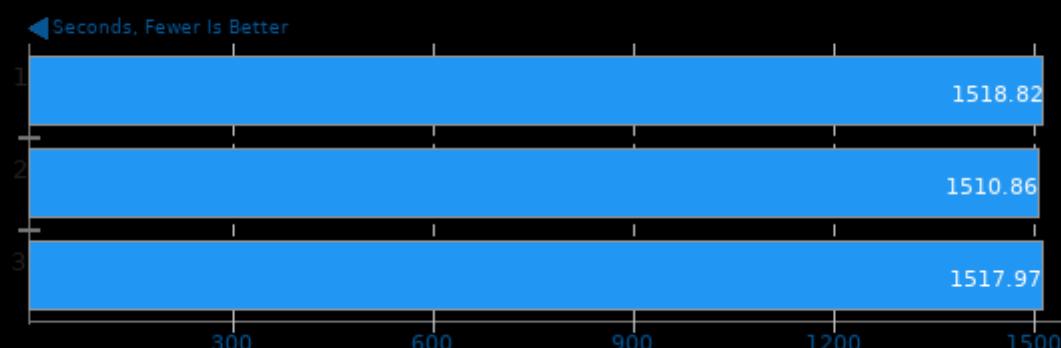
Lagrangian-Eulerian Hydrodynamics



1. (F9X) gfortran options: -O3 -march=native -funroll-loops -fopenmp

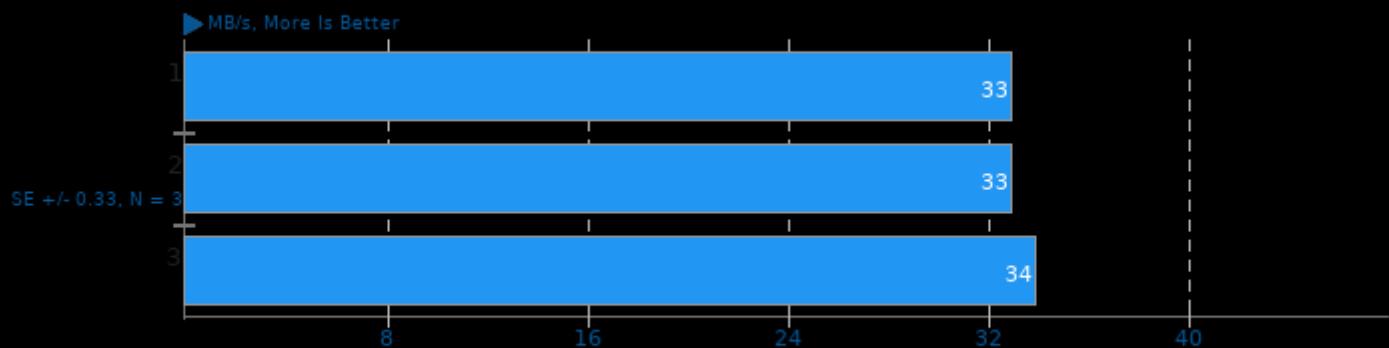
CP2K Molecular Dynamics 8.1

Fayalite-FIST Data



Izbench 1.8

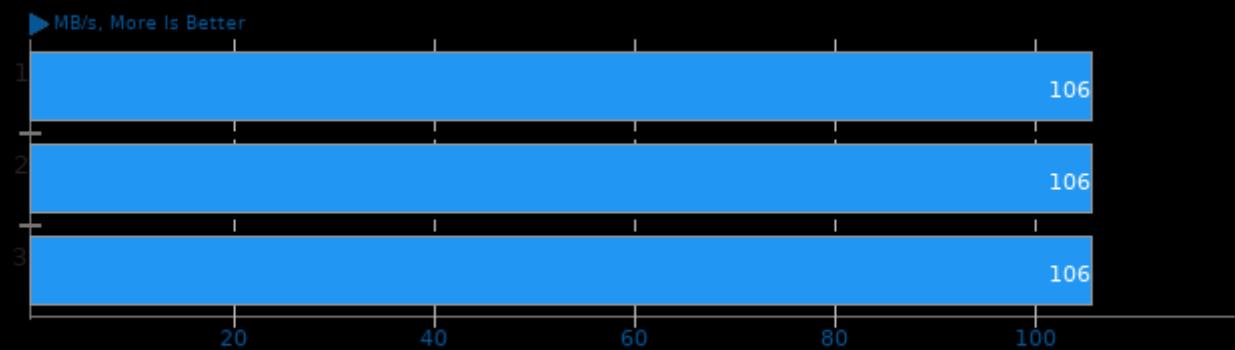
Test: XZ 0 - Process: Compression



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

Izbench 1.8

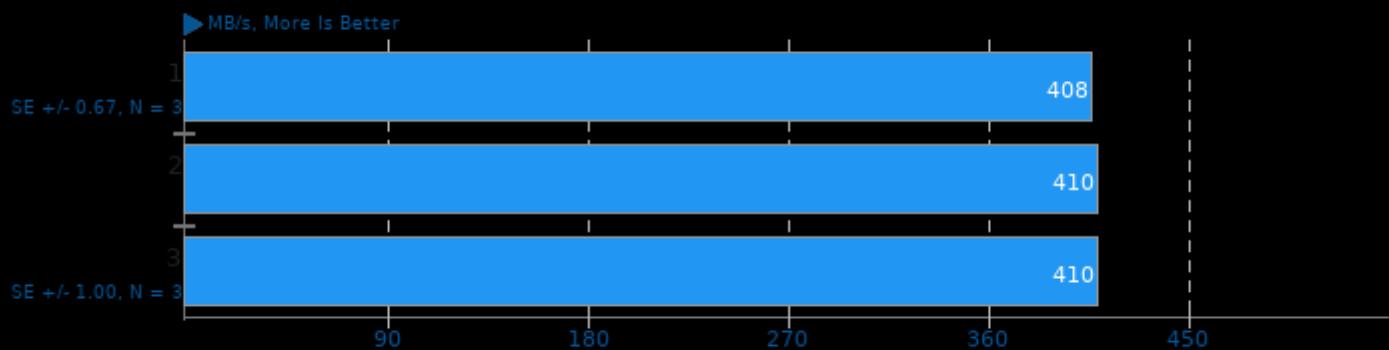
Test: XZ 0 - Process: Decompression



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

Izbench 1.8

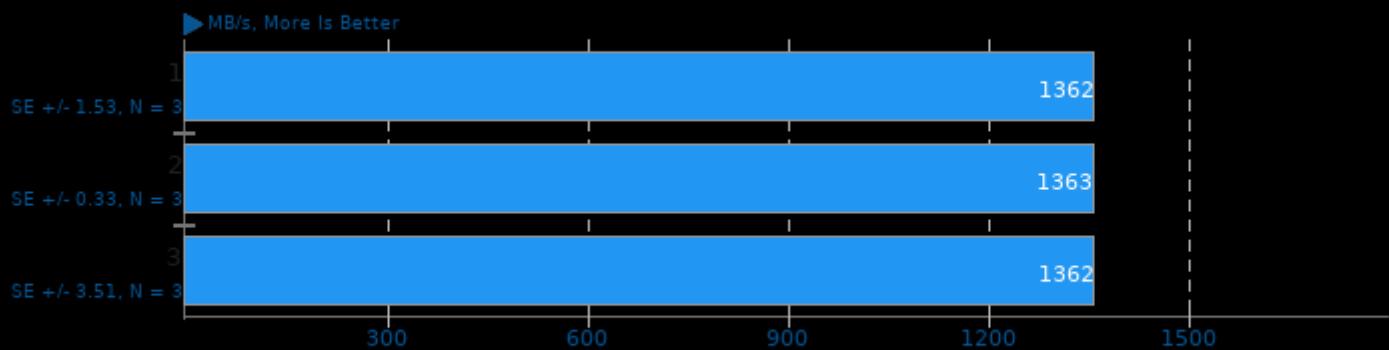
Test: Zstd 1 - Process: Compression



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

Izbench 1.8

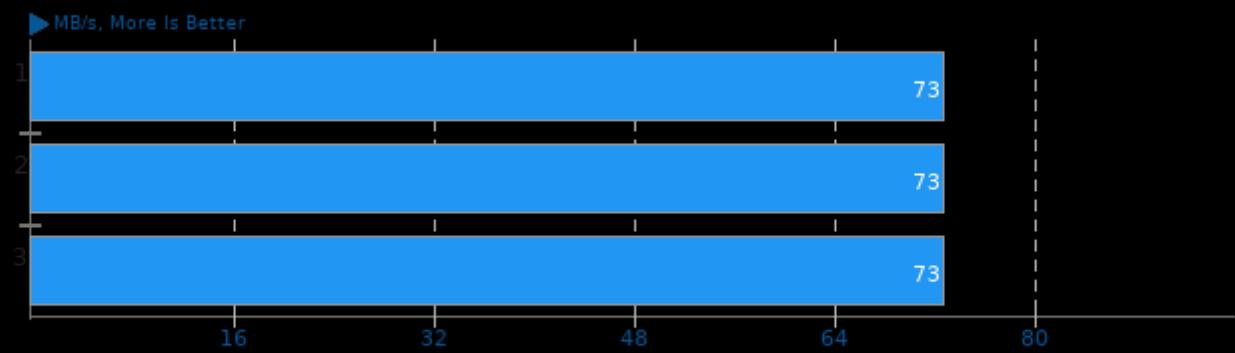
Test: Zstd 1 - Process: Decompression



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

Izbench 1.8

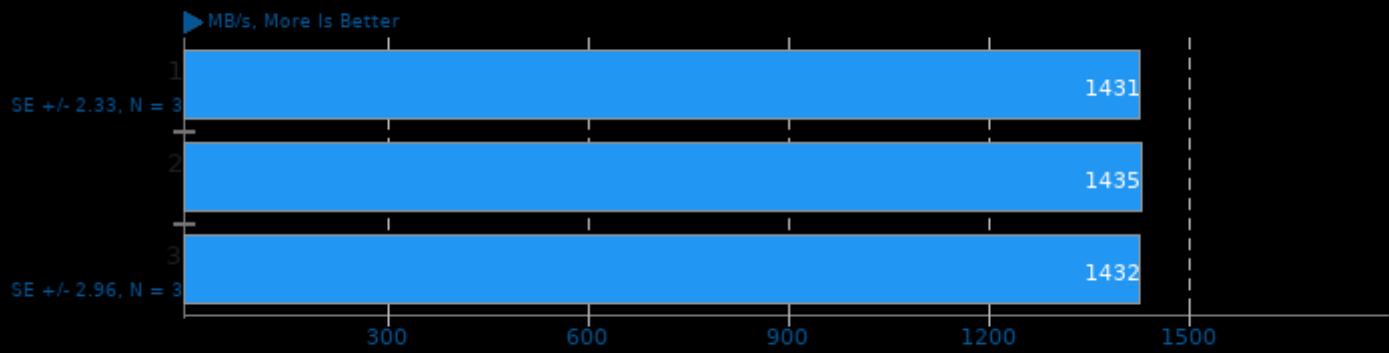
Test: Zstd 8 - Process: Compression



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

Izbench 1.8

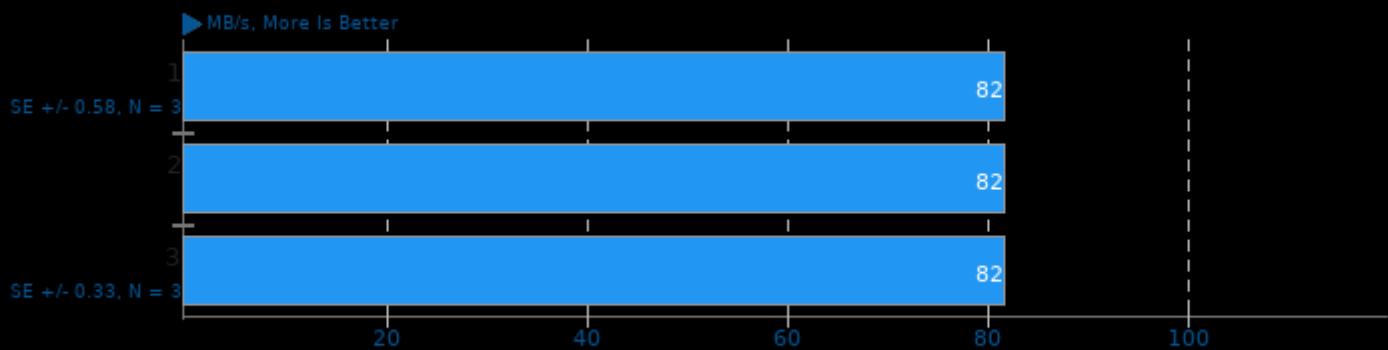
Test: Zstd 8 - Process: Decompression



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

Izbench 1.8

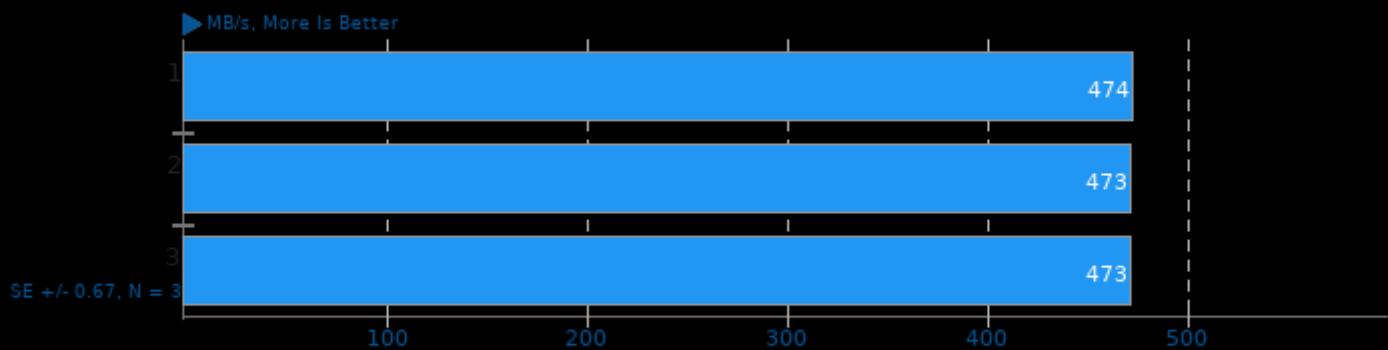
Test: Crush 0 - Process: Compression



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

Izbench 1.8

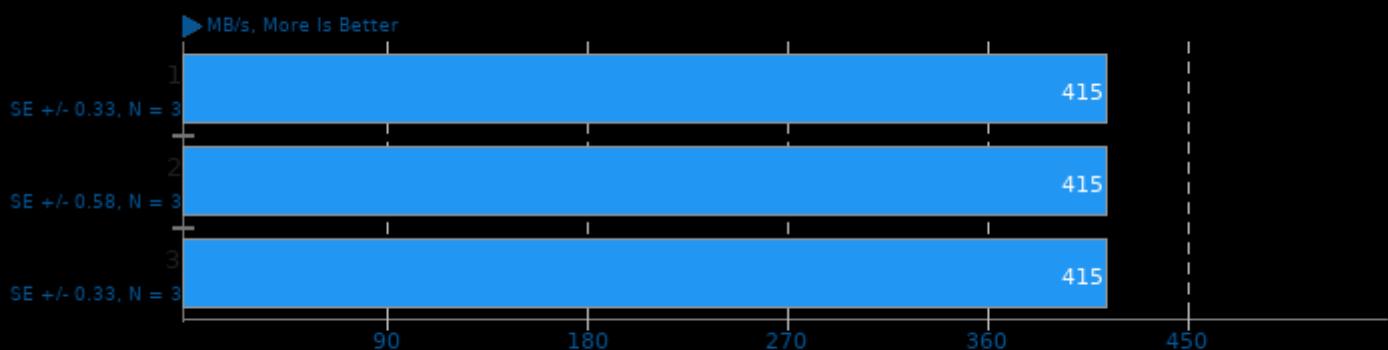
Test: Crush 0 - Process: Decompression



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

Izbench 1.8

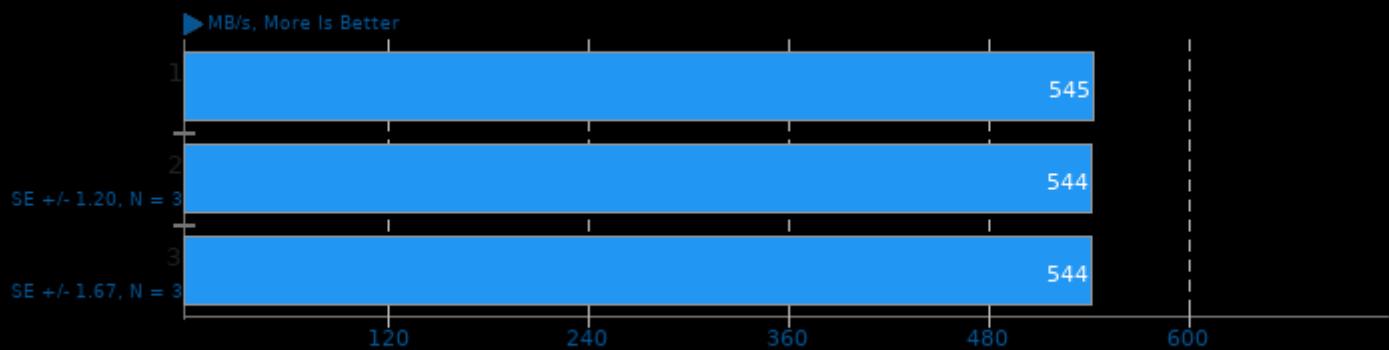
Test: Brotli 0 - Process: Compression



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

Izbench 1.8

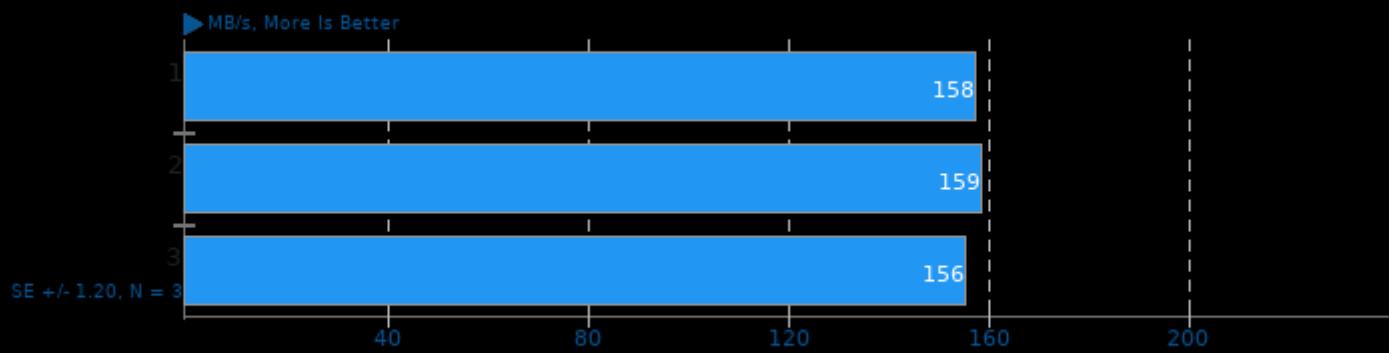
Test: Brotli 0 - Process: Decompression



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

Izbench 1.8

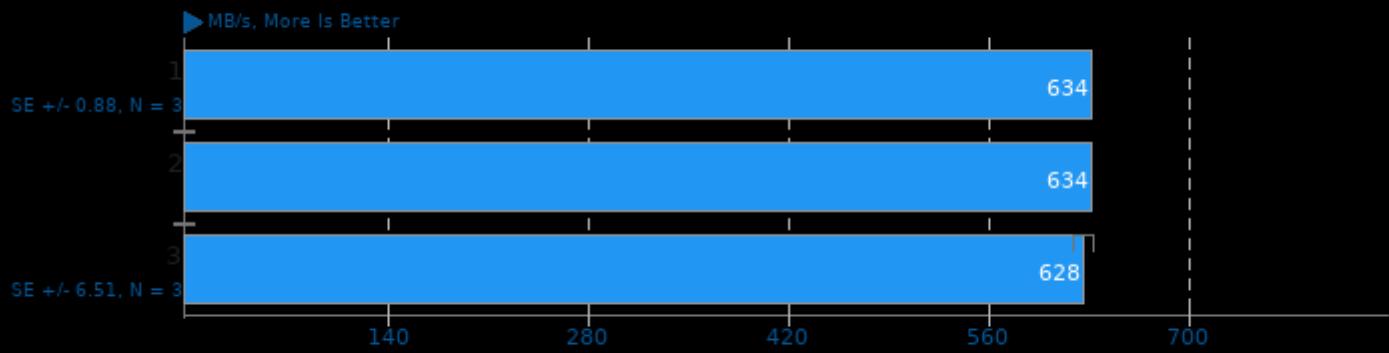
Test: Brotli 2 - Process: Compression



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

Izbench 1.8

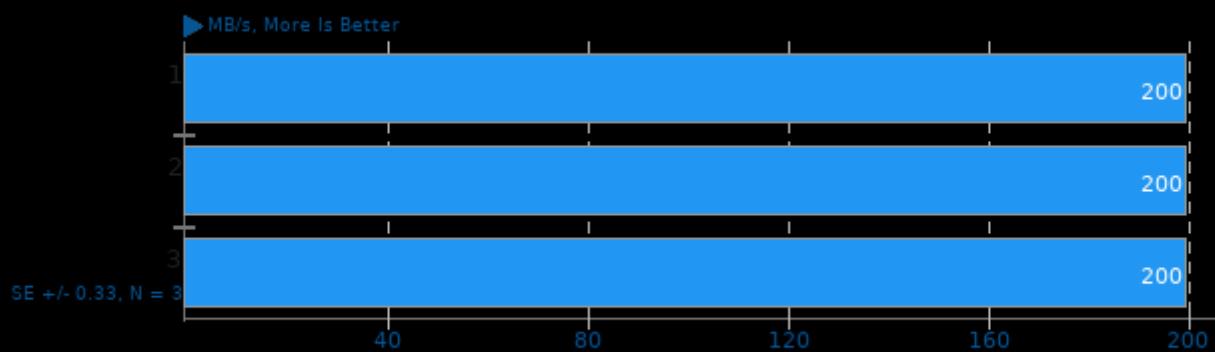
Test: Brotli 2 - Process: Decompression



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

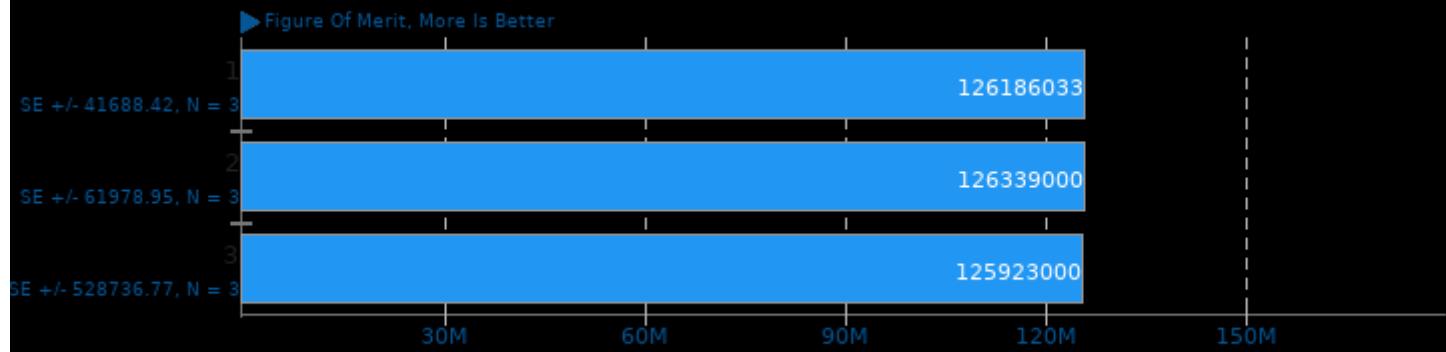
Izbench 1.8

Test: Libdeflate 1 - Process: Compression



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

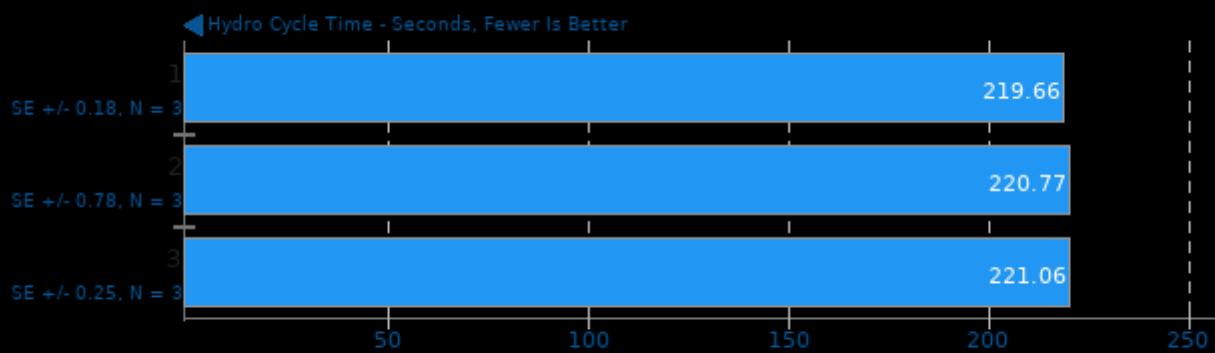
Algebraic Multi-Grid Benchmark 1.2



1. (CC) gcc options: -lparcsr_ls -lparcsr_mv -lseq_mv -lj_mv -lkrylov -lHYPRE_utilities -lm -fopenmp -pthread -lmpi

Pennant 1.0.1

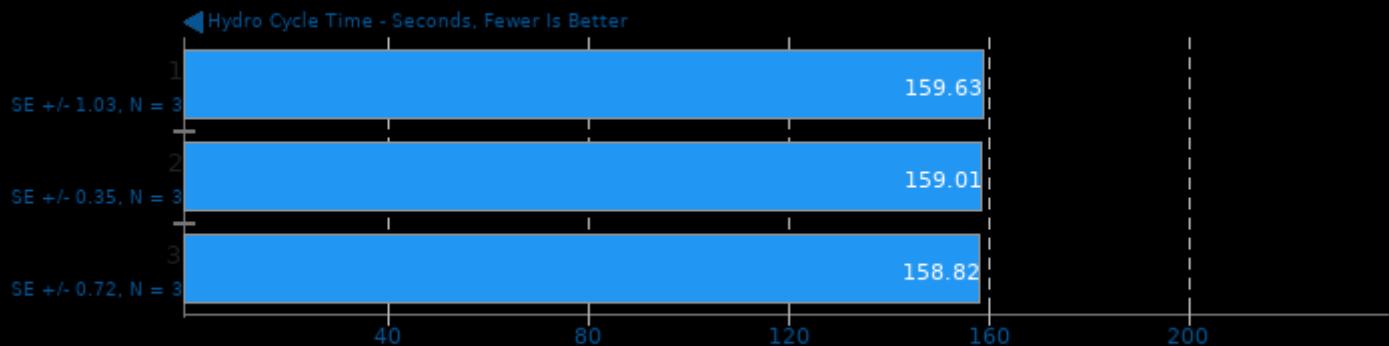
Test: sedovbig



1. (CXX) g++ options: -fopenmp -pthread -lmpi_cxx -lmpi

Pennant 1.0.1

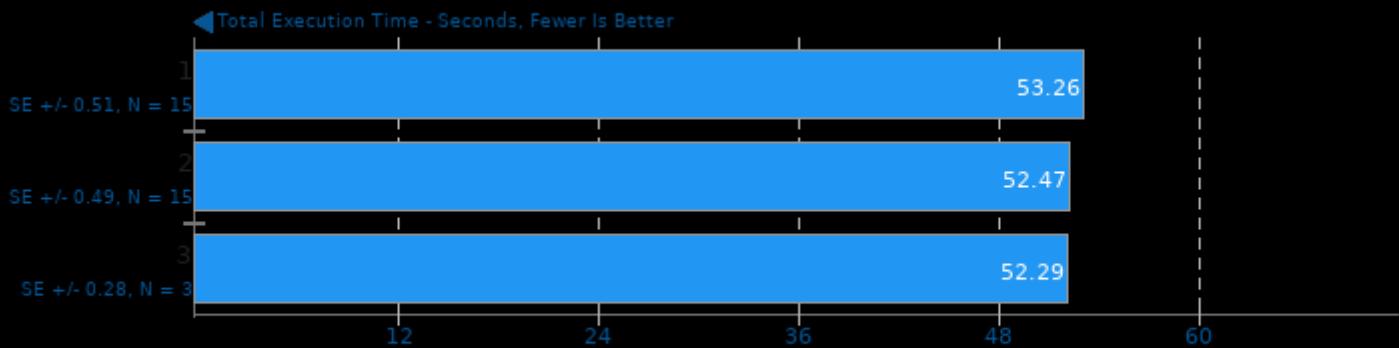
Test: leblancbig



1. (CXX) g++ options: -fopenmp -pthread -lmpi_cxx -lmpi

QMCPACK 3.10

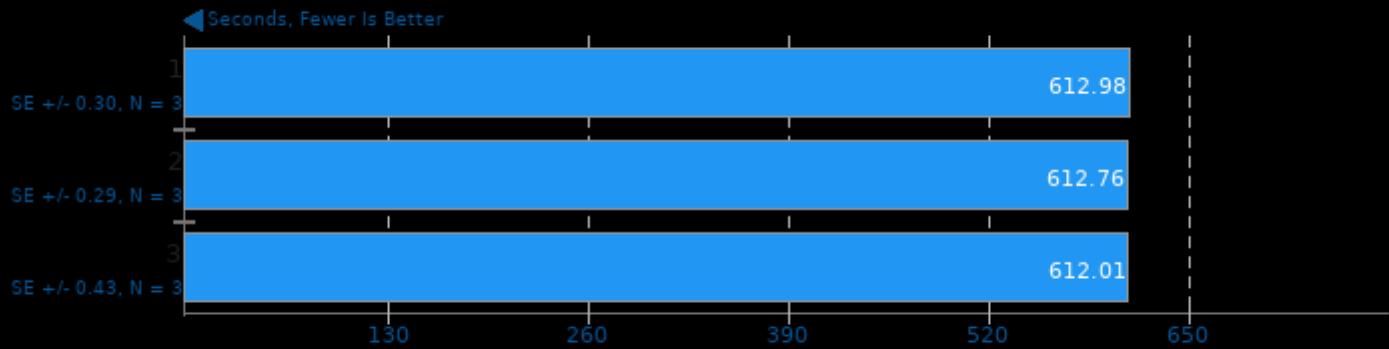
Input: simple-H2O



1. (CXX) g++ options: -fopenmp -finline-limit=1000 -fstrict-aliasing -funroll-all-loops -march=native -O3 -fomit-frame-pointer -ffast-math -pthread -lmpi

OpenFOAM 8

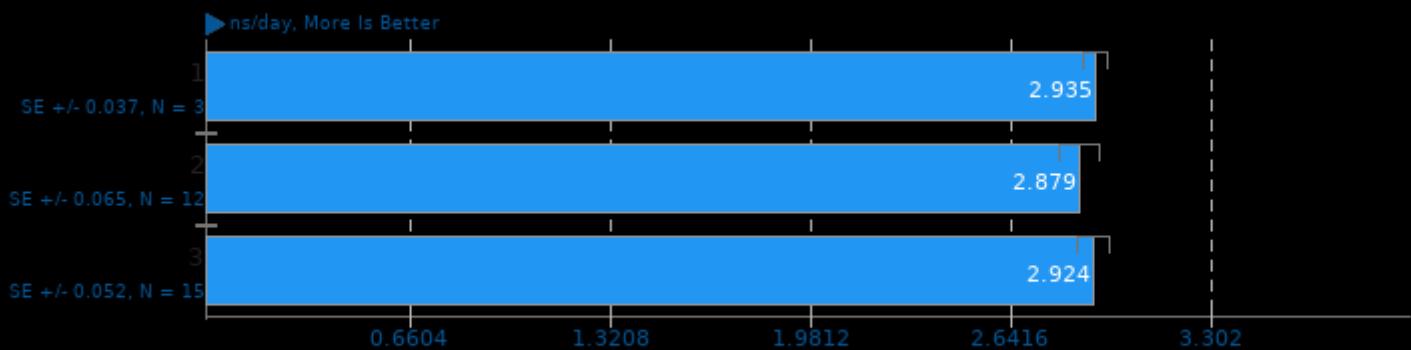
Input: Motorbike 30M



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

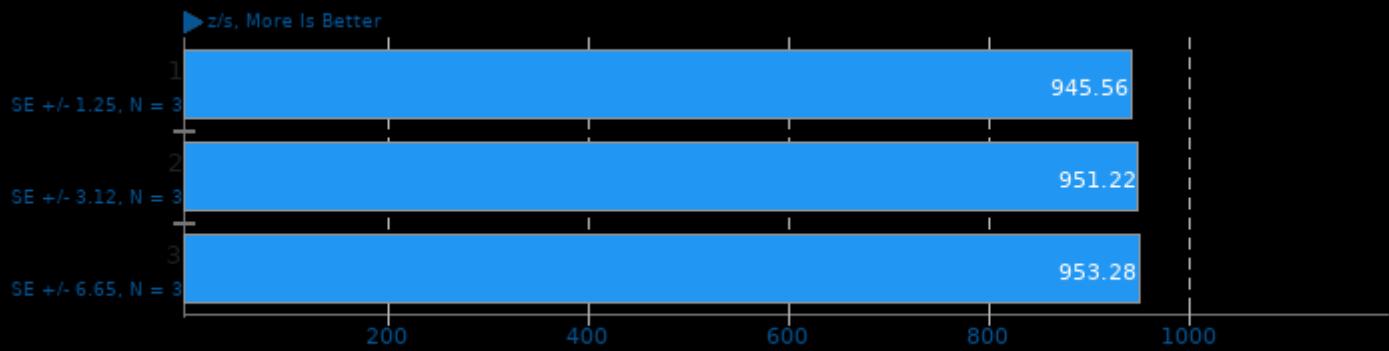
LAMMPS Molecular Dynamics Simulator 29Oct2020

Model: Rhodopsin Protein



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

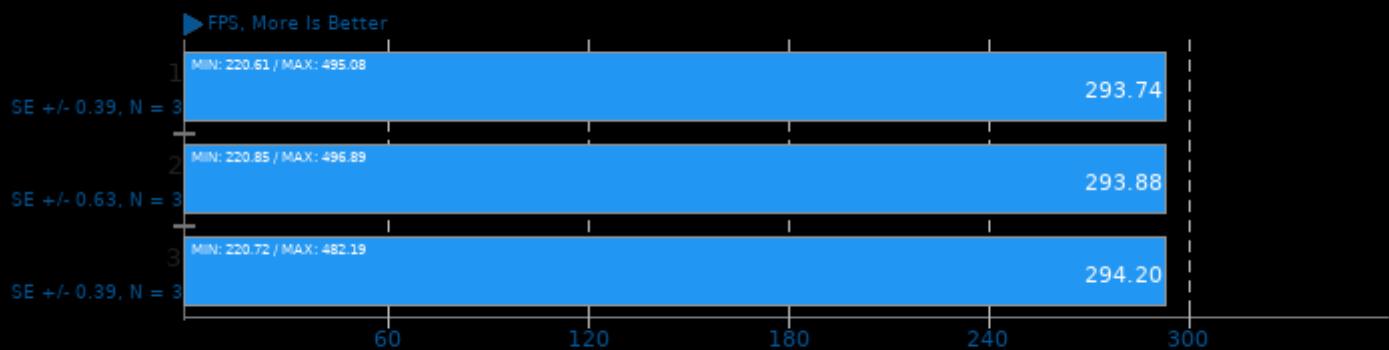
LULESH 2.0.3



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

dav1d 0.8.1

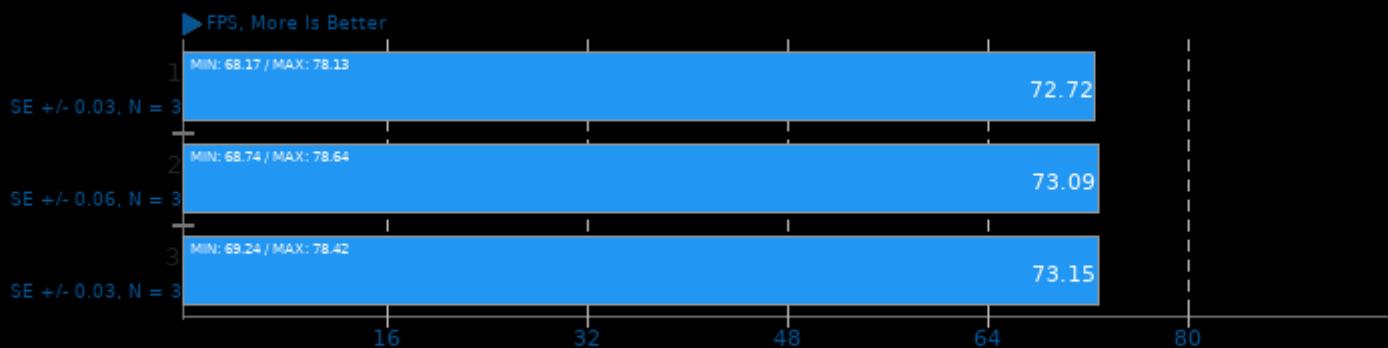
Video Input: Chimera 1080p



1. (CC) gcc options: -pthread

dav1d 0.8.1

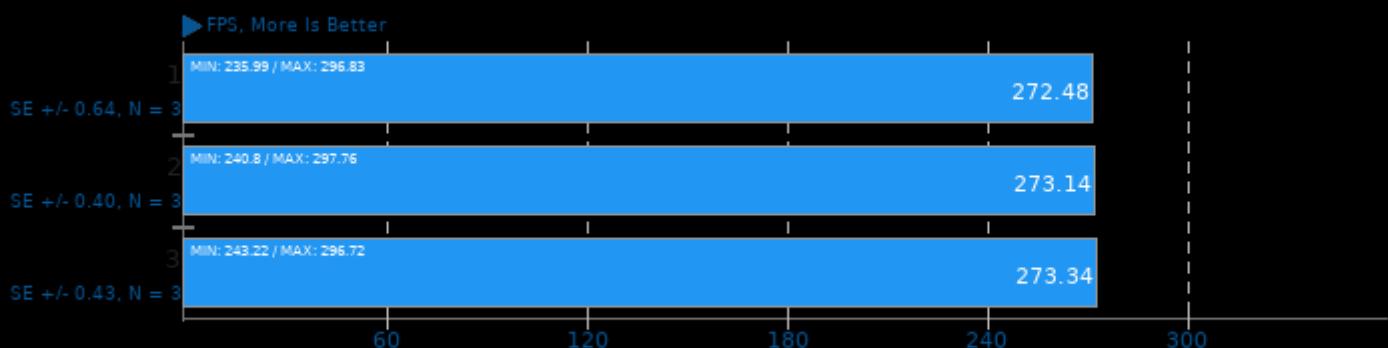
Video Input: Summer Nature 4K



1. (CC) gcc options: -pthread

dav1d 0.8.1

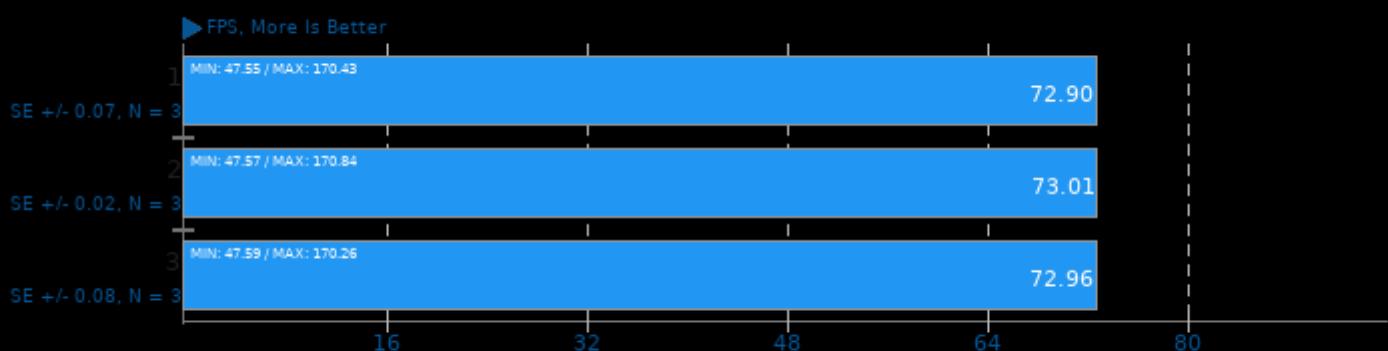
Video Input: Summer Nature 1080p



1. (CC) gcc options: -pthread

dav1d 0.8.1

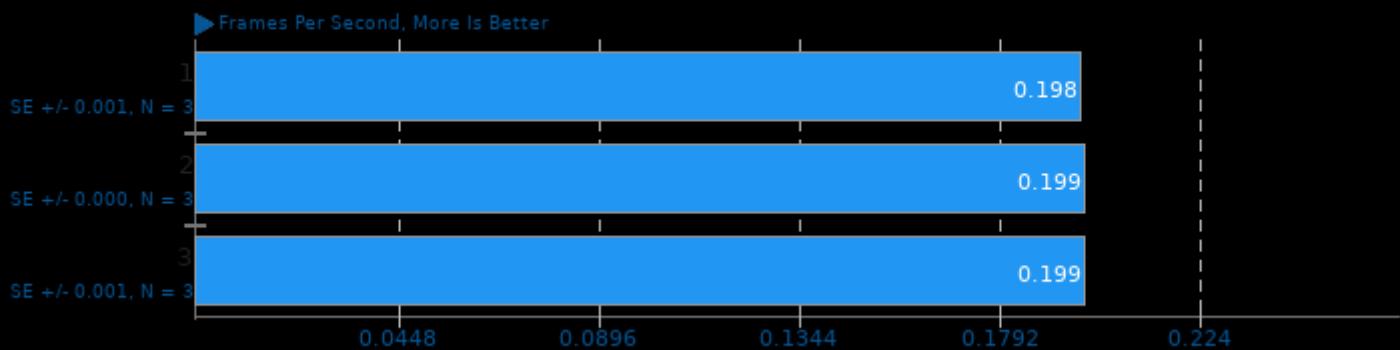
Video Input: Chimera 1080p 10-bit



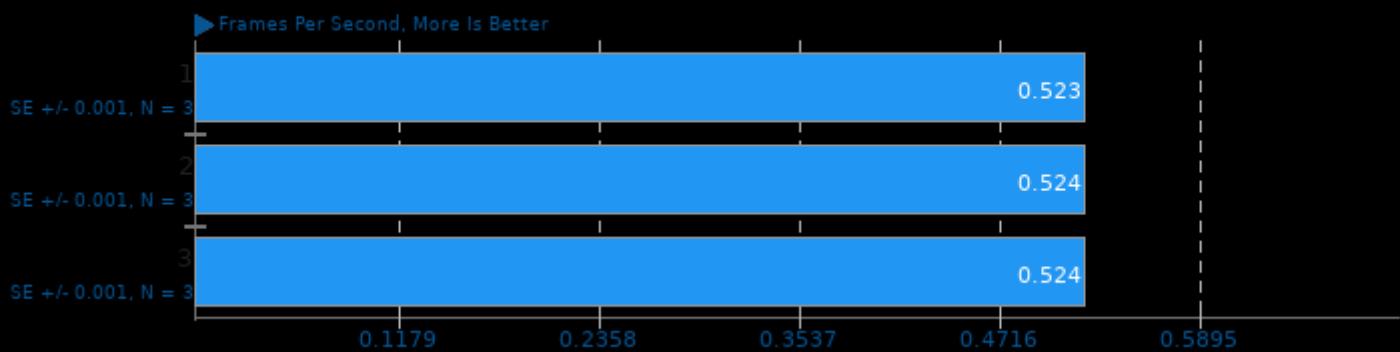
1. (CC) gcc options: -pthread

rav1e 0.4

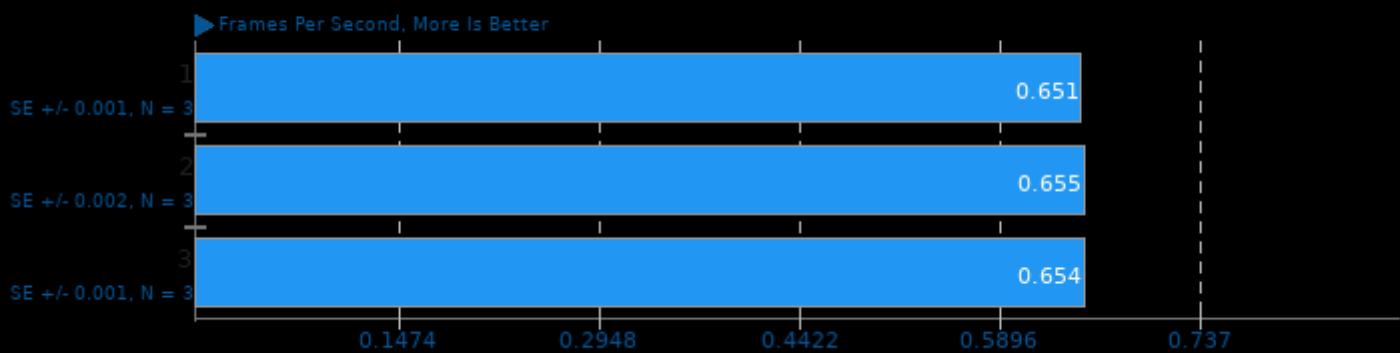
Speed: 1

**rav1e 0.4**

Speed: 5

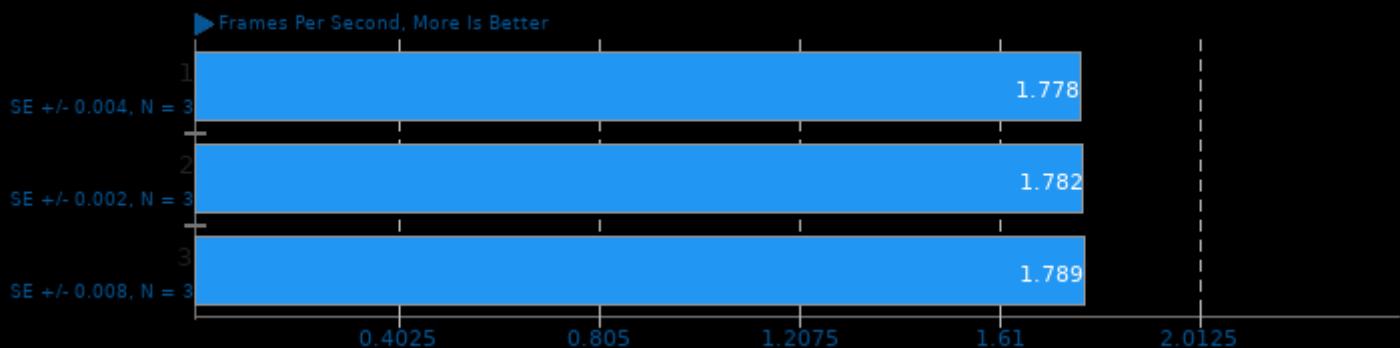
**rav1e 0.4**

Speed: 6

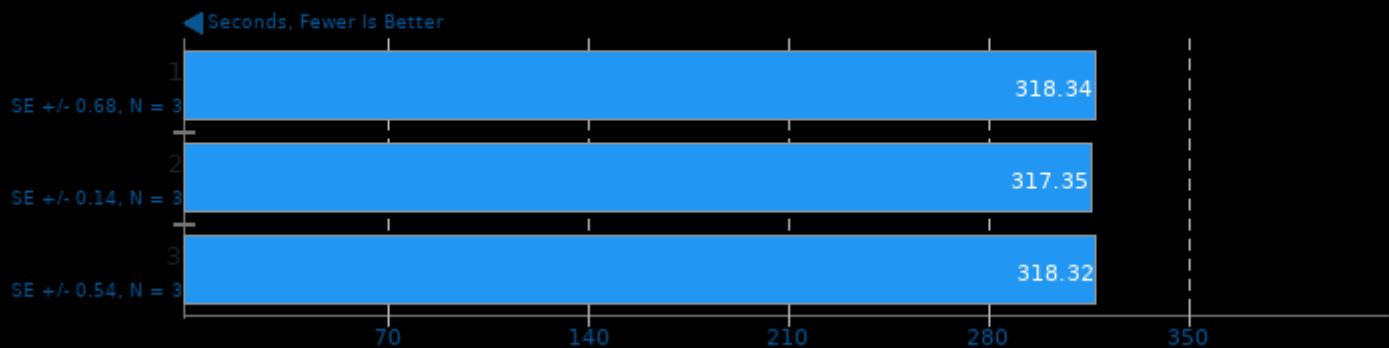
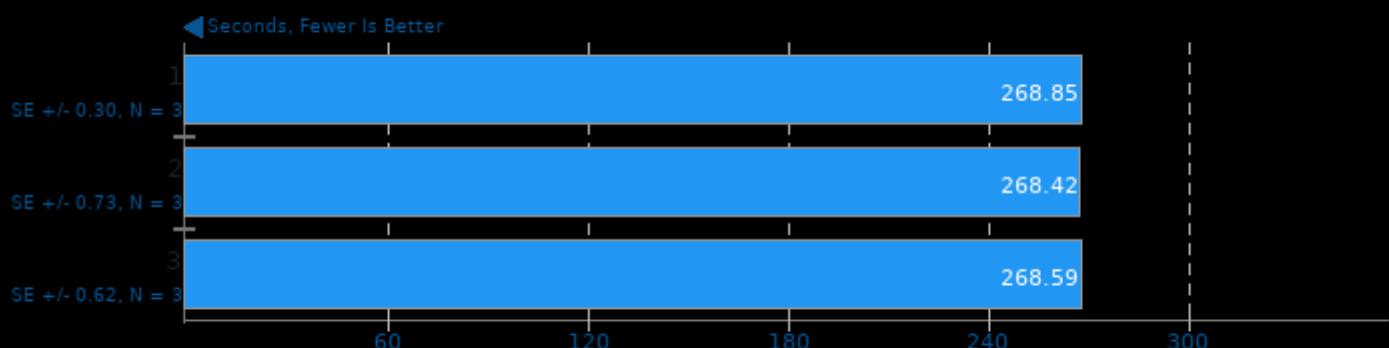


rav1e 0.4

Speed: 10

**Timed Godot Game Engine Compilation 3.2.3**

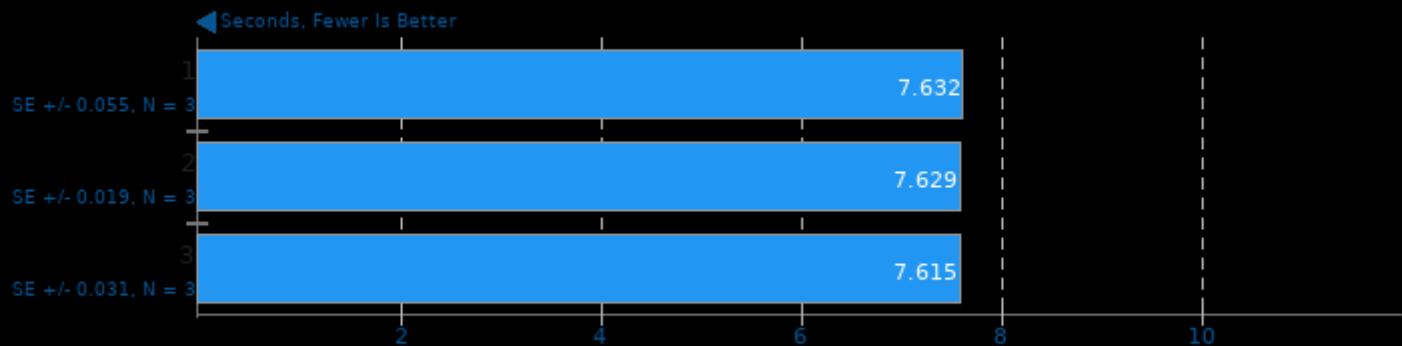
Time To Compile

**Gcrypt Library 1.9**

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

WebP2 Image Encode 20210126

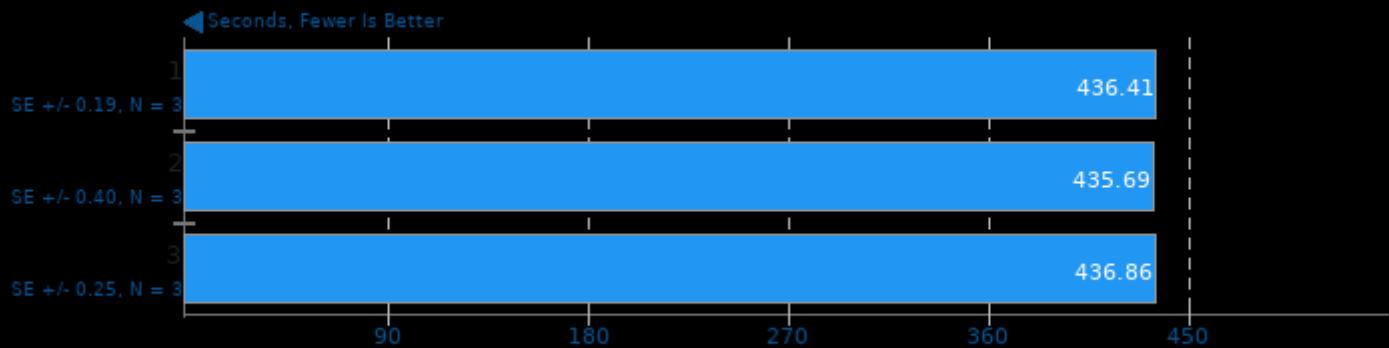
Encode Settings: Default



1. (CXX) g++ options: -msse4.2 -fno-rtti -O3 -rdynamic -lpthread -ljpeg

WebP2 Image Encode 20210126

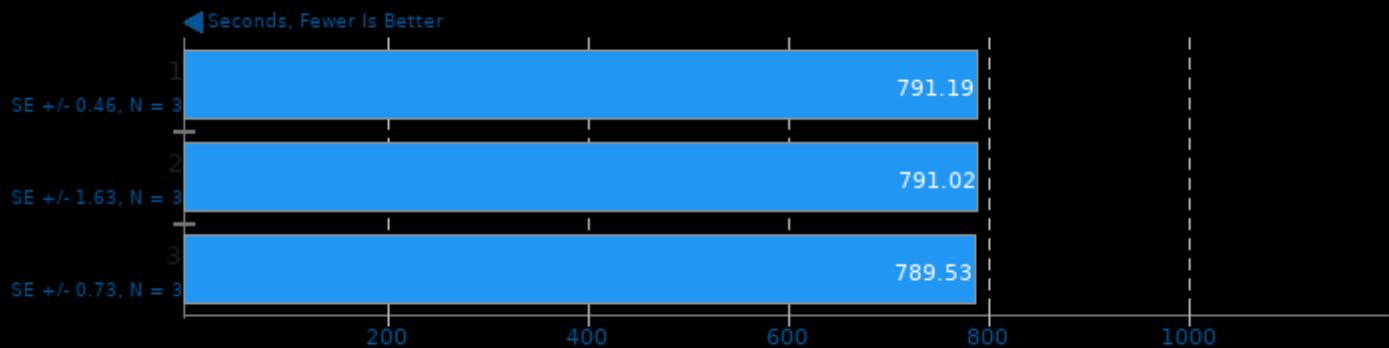
Encode Settings: Quality 75, Compression Effort 7



1. (CXX) g++ options: -msse4.2 -fno-rtti -O3 -rdynamic -lpthread -ljpeg

WebP2 Image Encode 20210126

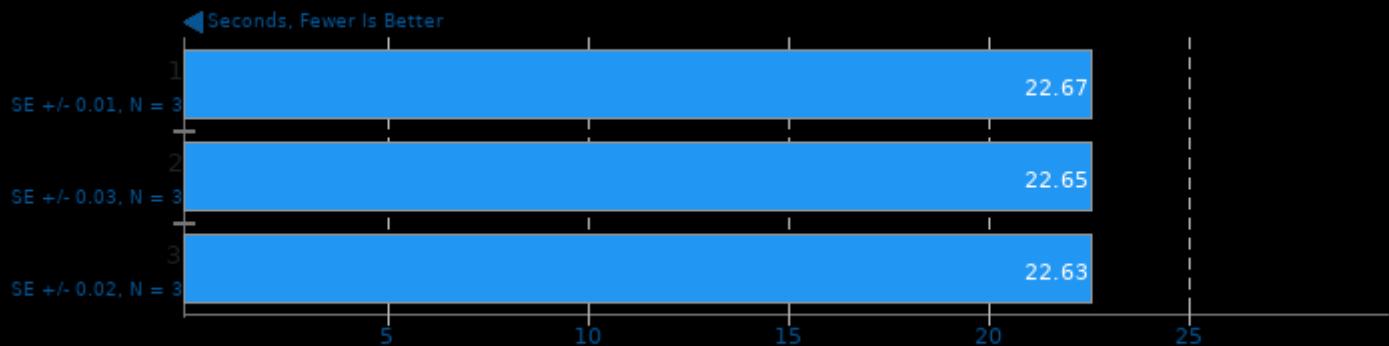
Encode Settings: Quality 95, Compression Effort 7



1. (CXX) g++ options: -msse4.2 -fno-rtti -O3 -rdynamic -lpthread -ljpeg

WebP2 Image Encode 20210126

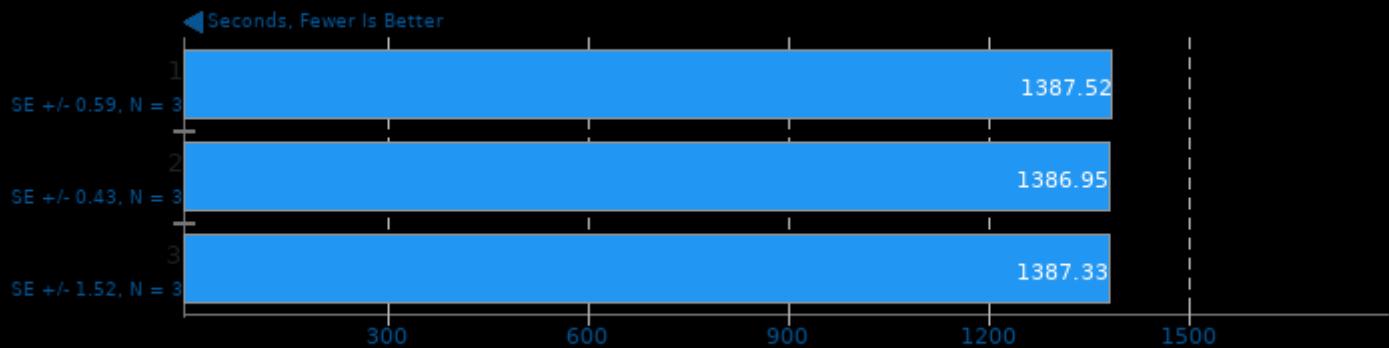
Encode Settings: Quality 100, Compression Effort 5



1. (CXX) g++ options: -msse4.2 -fno-rtti -O3 -rdynamic -lpthread -ljpeg

WebP2 Image Encode 20210126

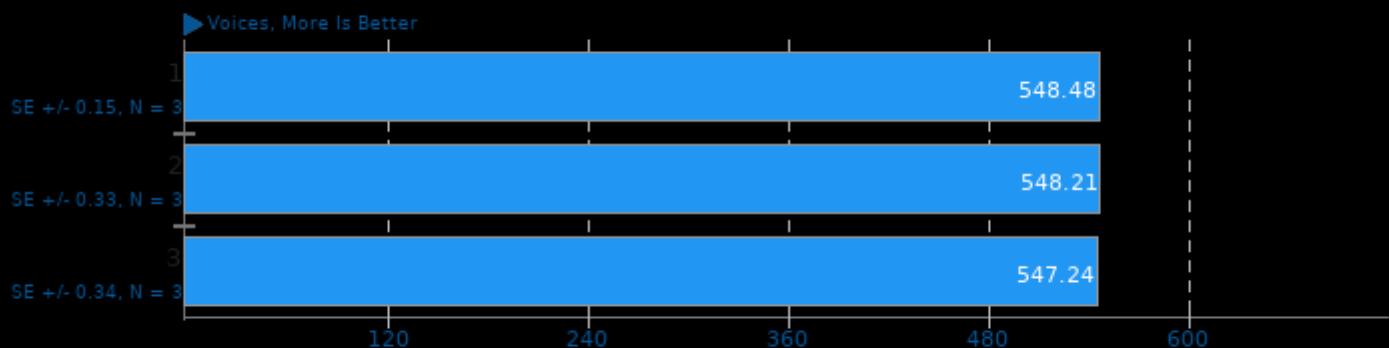
Encode Settings: Quality 100, Lossless Compression



1. (CXX) g++ options: -msse4.2 -fno-rtti -O3 -rdynamic -lpthread -ljpeg

Google SynthMark 20201109

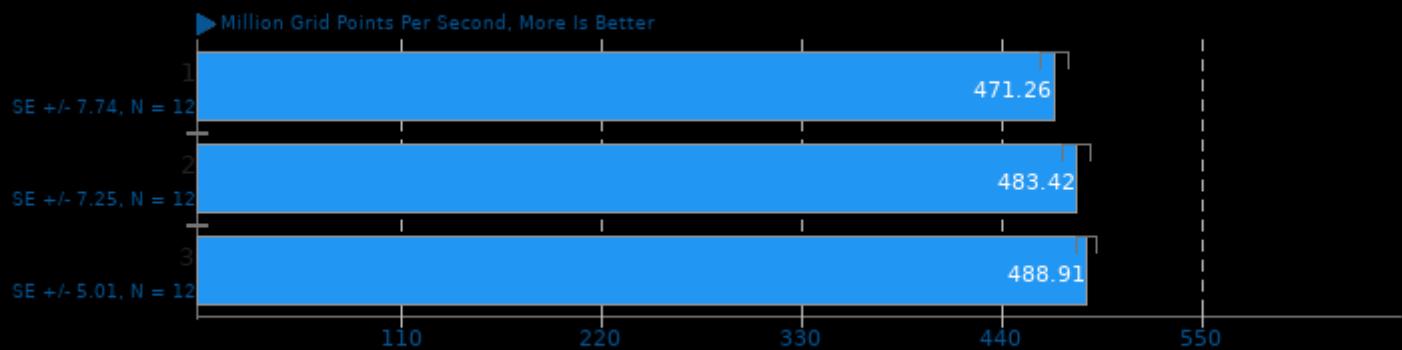
Test: VoiceMark_100



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

ASKAP 1.0

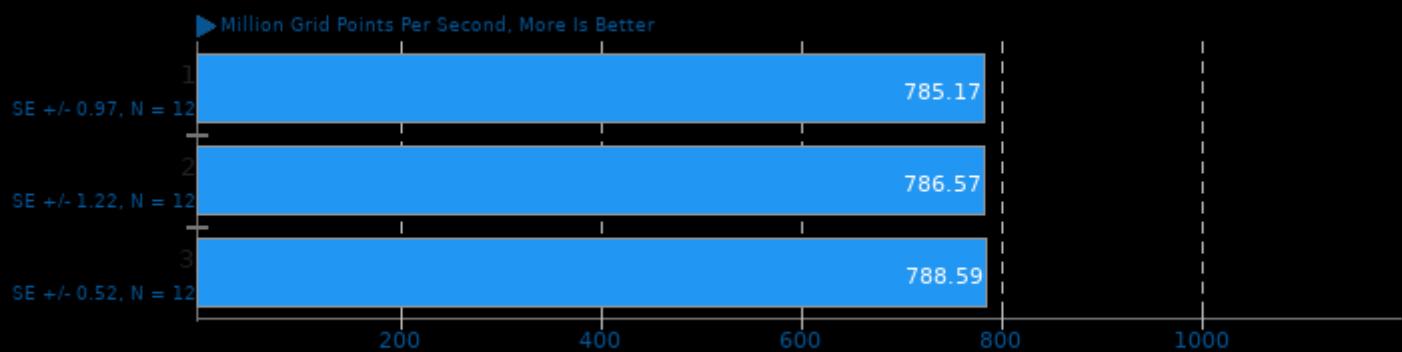
Test: tConvolve MT - Gridding



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

ASKAP 1.0

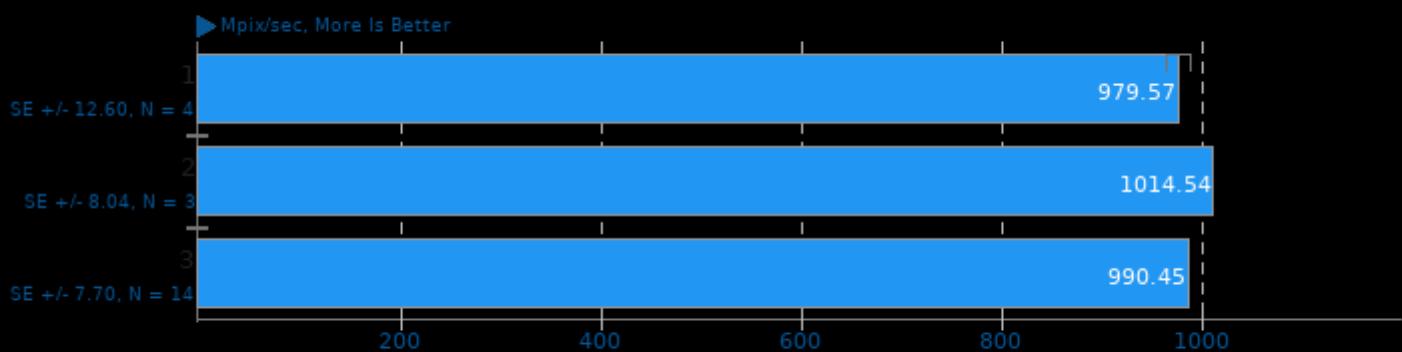
Test: tConvolve MT - Degridding



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

ASKAP 1.0

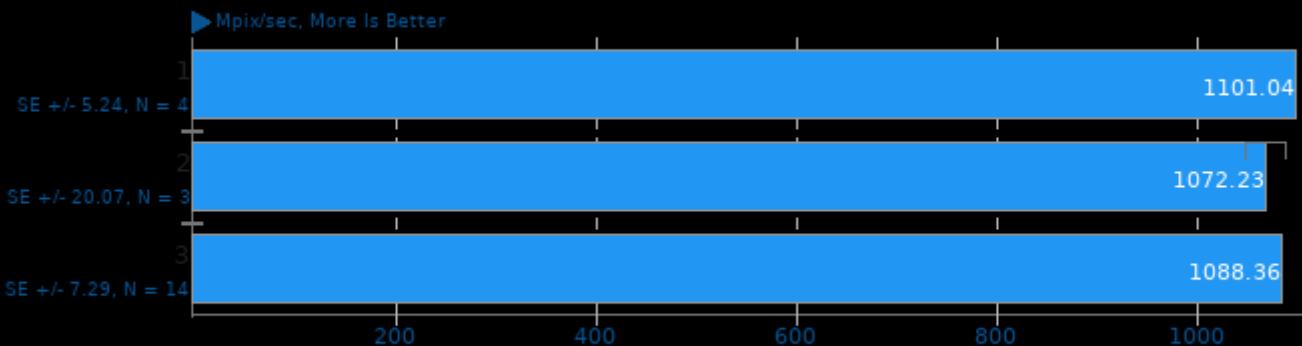
Test: tConvolve MPI - Degridding



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

ASKAP 1.0

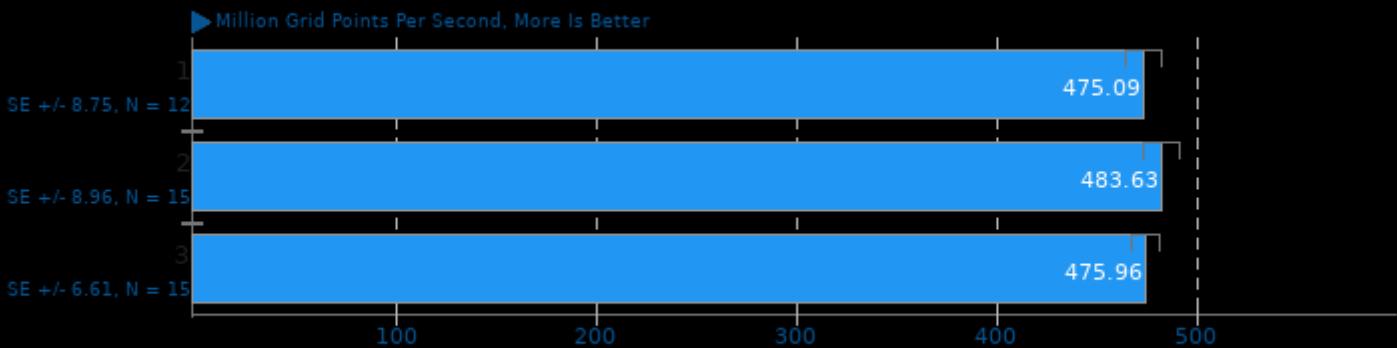
Test: tConvolve MPI - Gridding



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

ASKAP 1.0

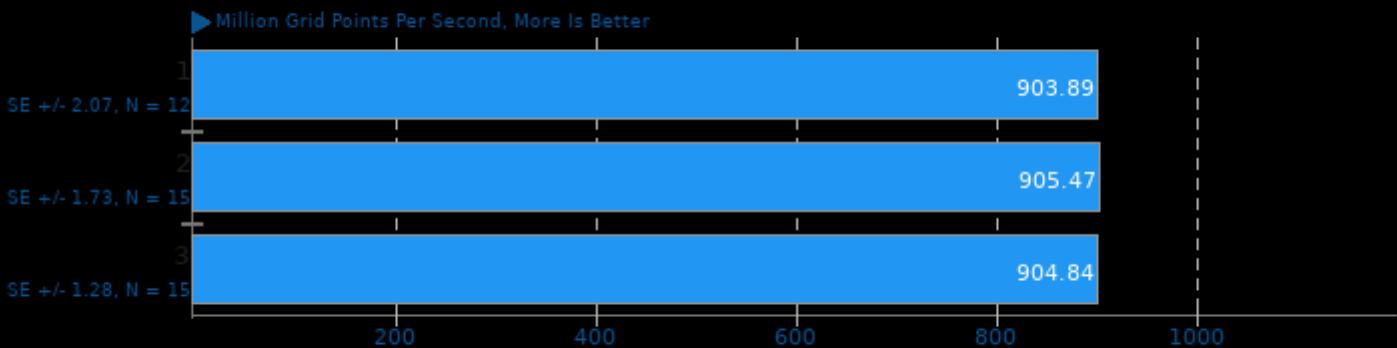
Test: tConvolve OpenMP - Gridding



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

ASKAP 1.0

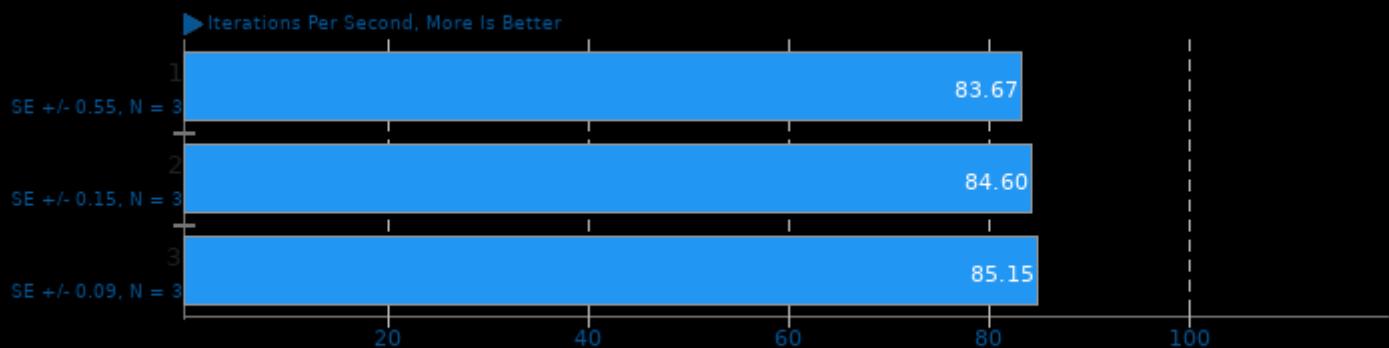
Test: tConvolve OpenMP - Degridding



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

ASKAP 1.0

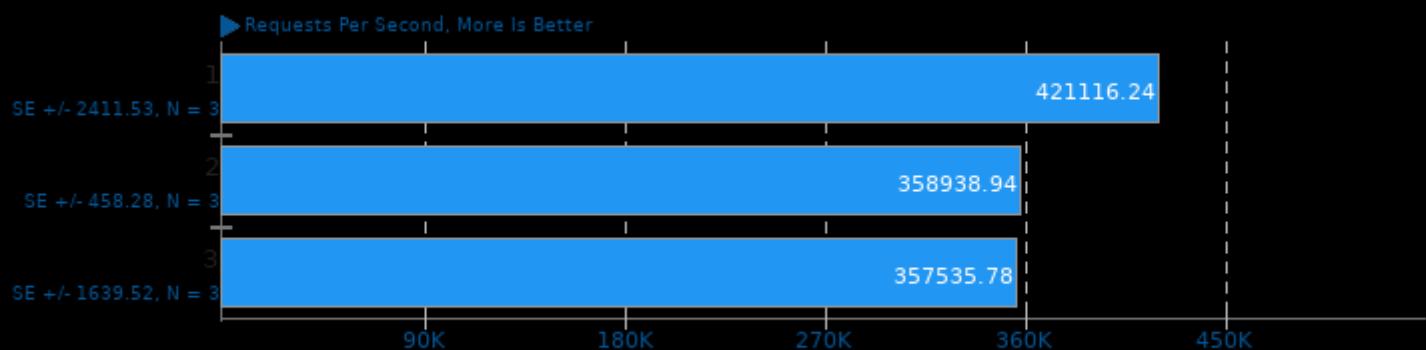
Test: Hogbom Clean OpenMP



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

Redis 6.0.9

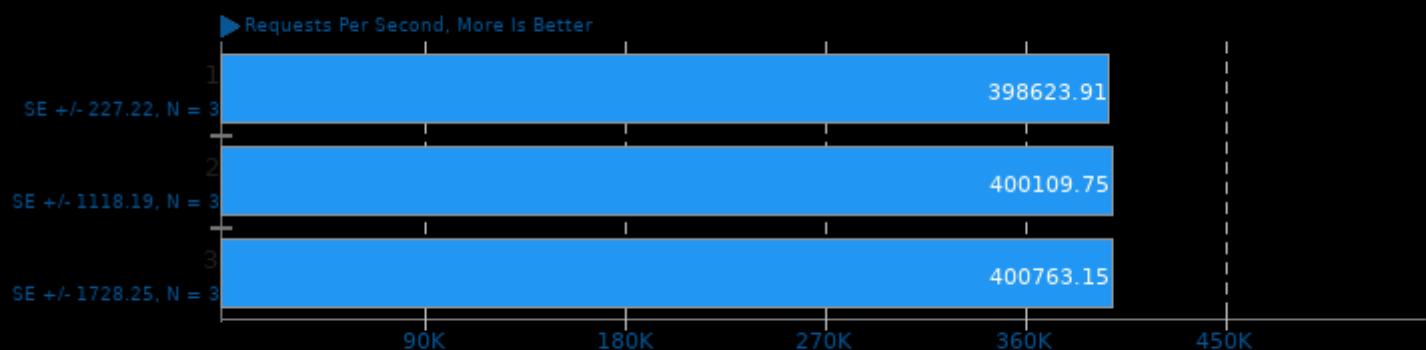
Test: LPOP



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

Redis 6.0.9

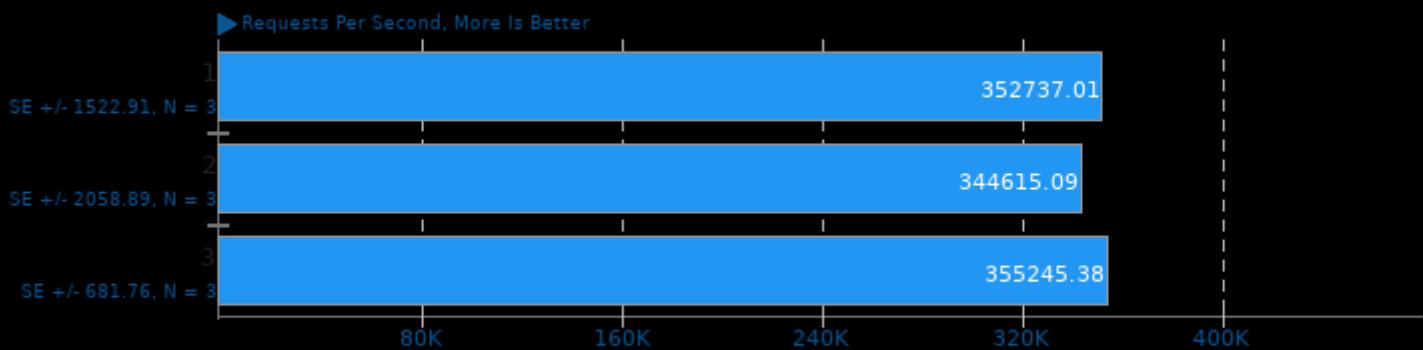
Test: SADD



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

Redis 6.0.9

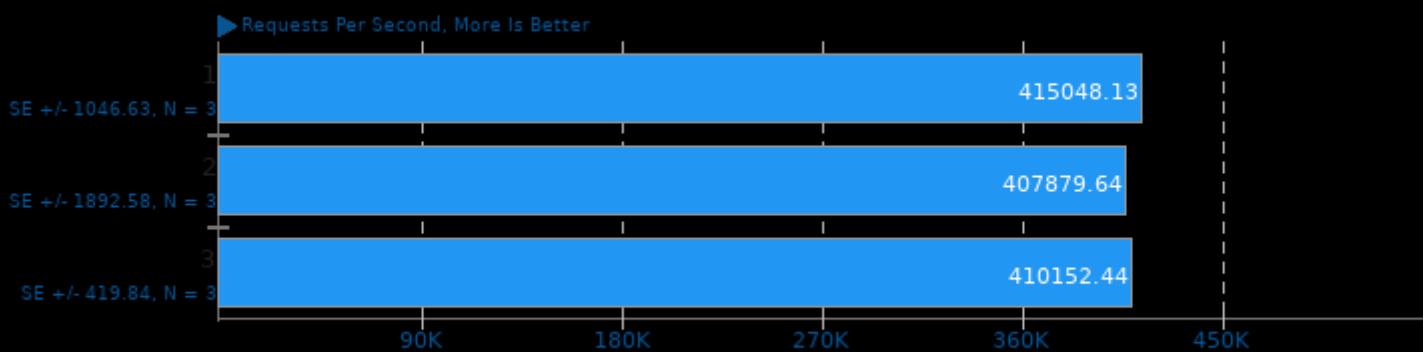
Test: LPUSH



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

Redis 6.0.9

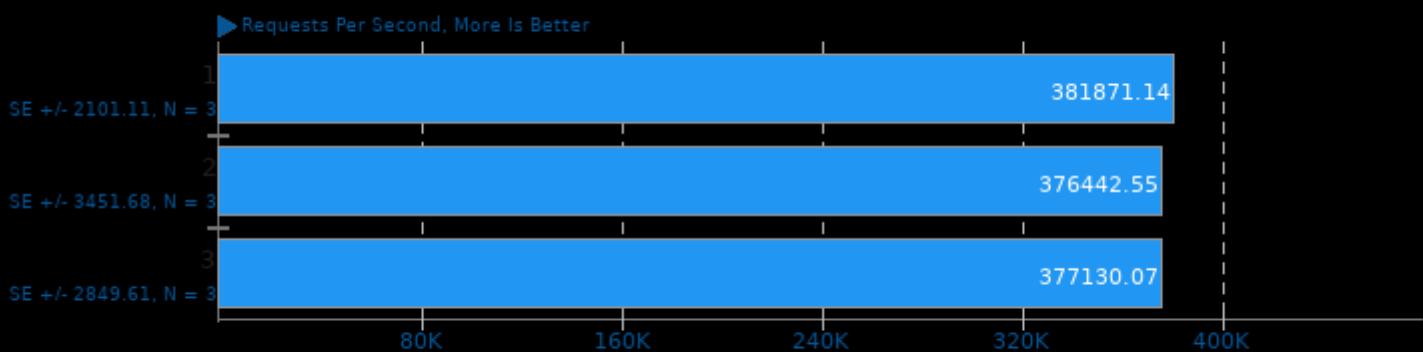
Test: GET



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

Redis 6.0.9

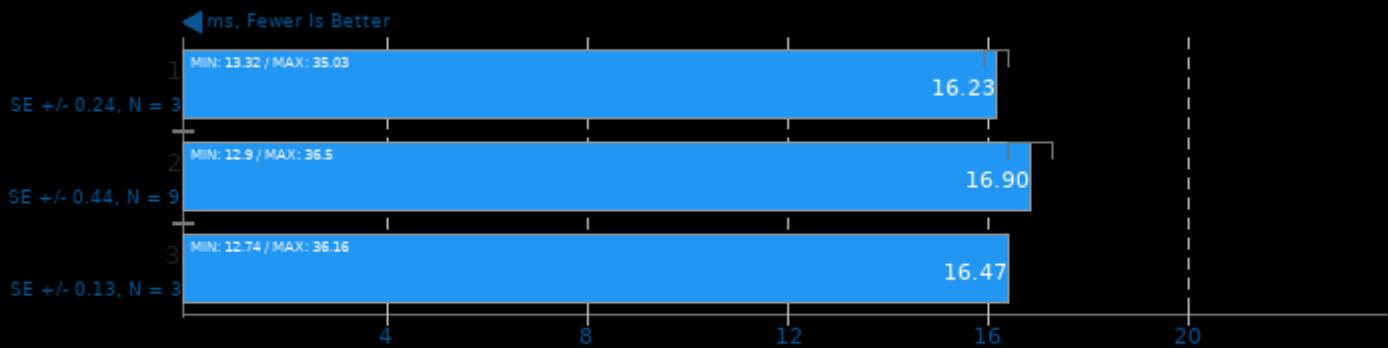
Test: SET



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

Mobile Neural Network 1.1.1

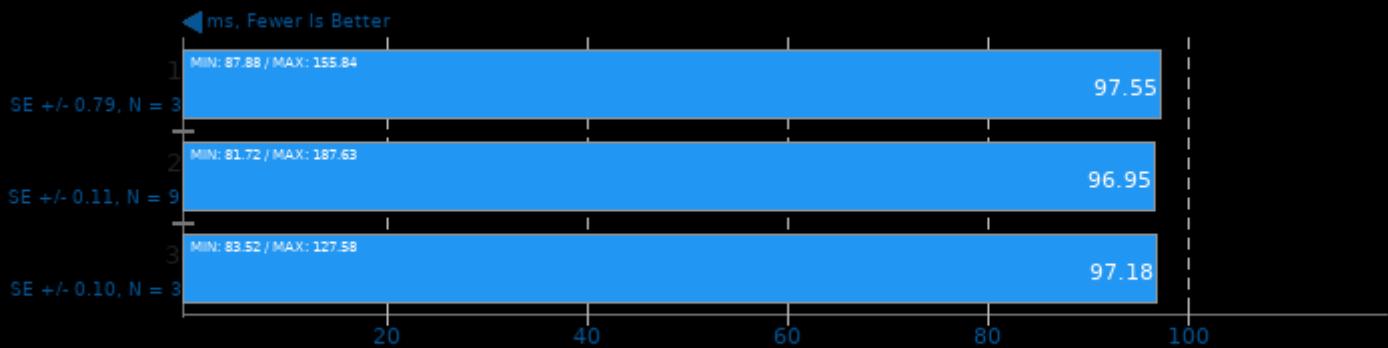
Model: SqueezeNetV1.0



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

Mobile Neural Network 1.1.1

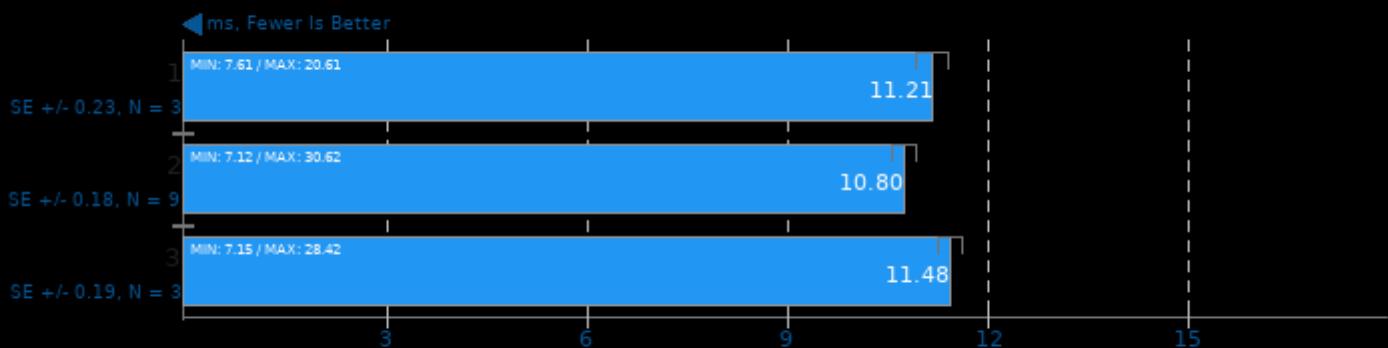
Model: resnet-v2-50



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

Mobile Neural Network 1.1.1

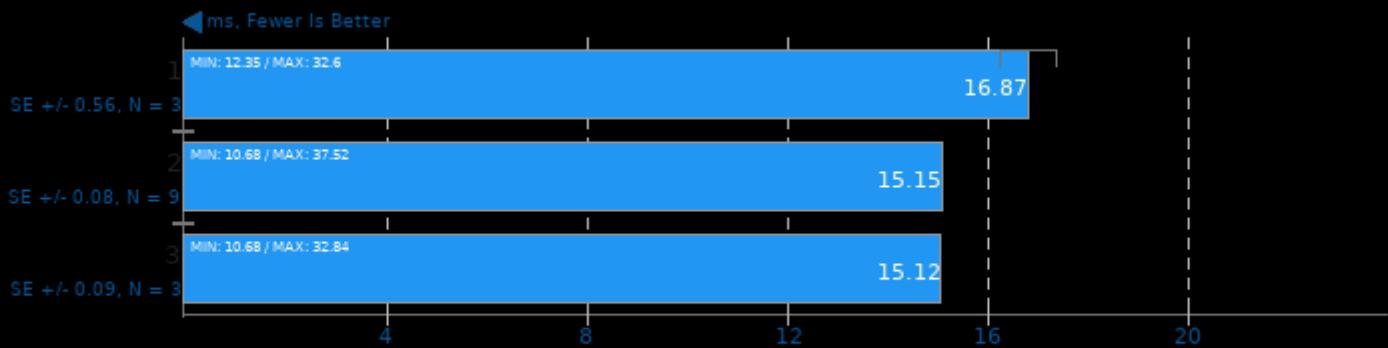
Model: MobileNetV2_224



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

Mobile Neural Network 1.1.1

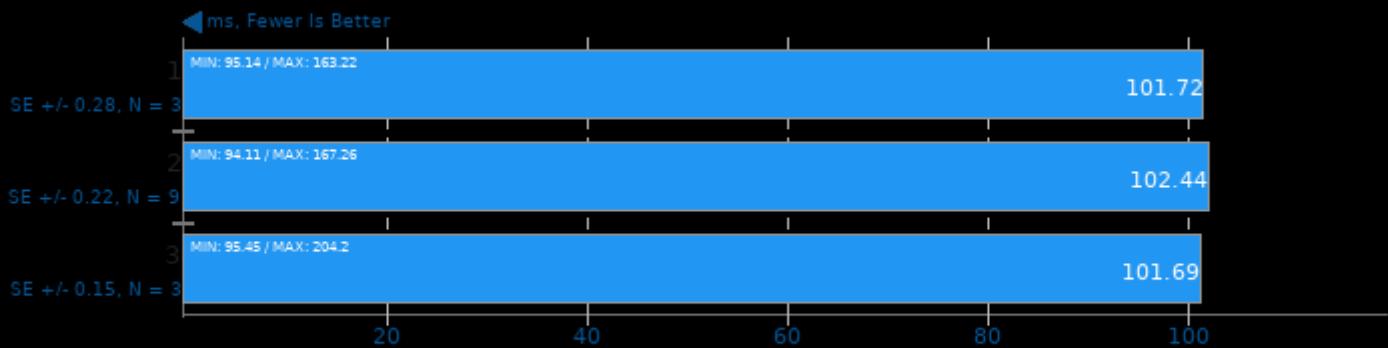
Model: mobilenet-v1-1.0



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

Mobile Neural Network 1.1.1

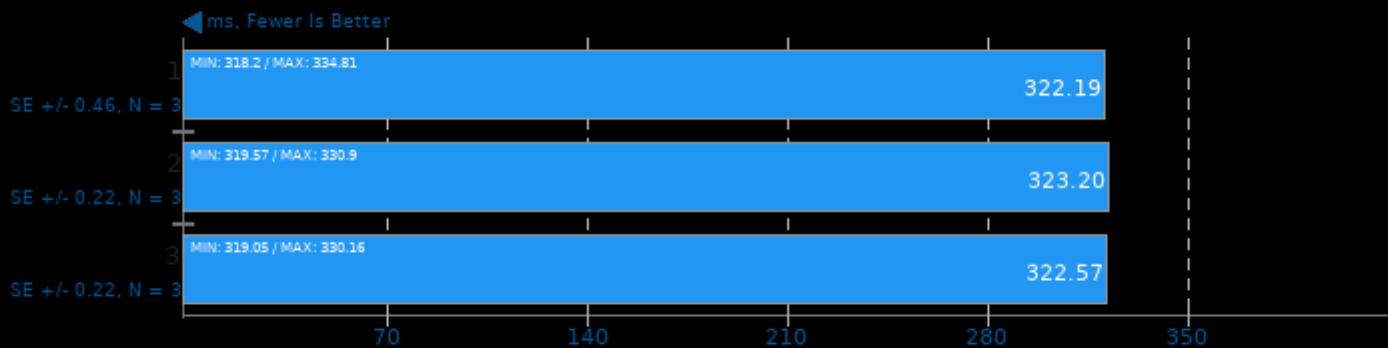
Model: inception-v3



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

TNN 0.2.3

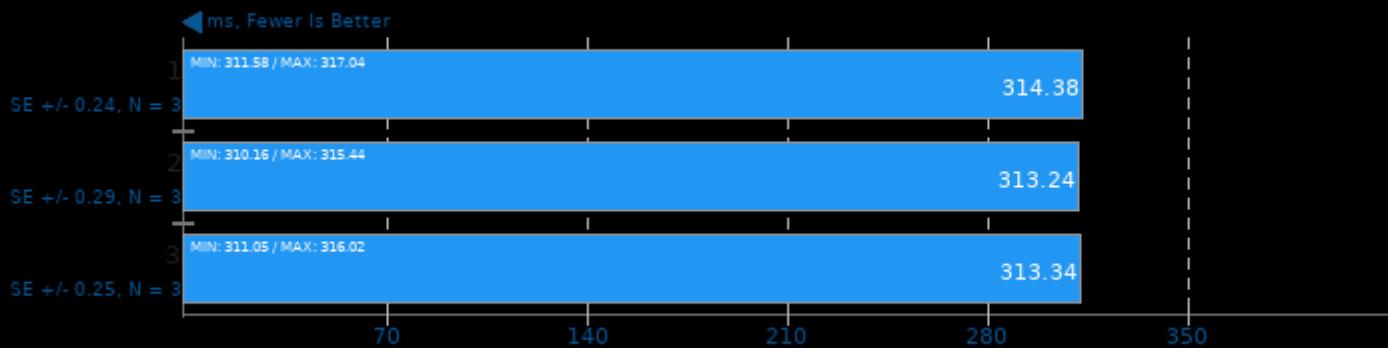
Target: CPU - Model: MobileNet v2



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

TNN 0.2.3

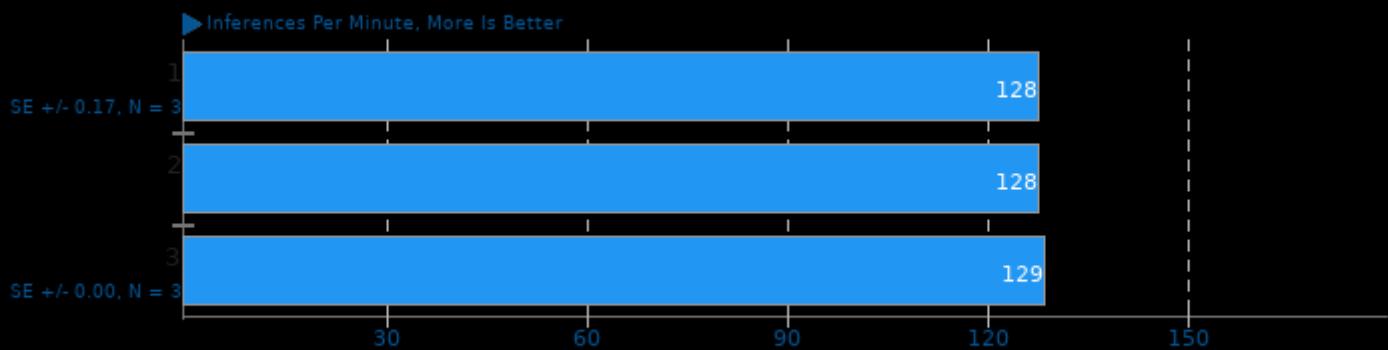
Target: CPU - Model: SqueezeNet v1.1



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

ONNX Runtime 1.6

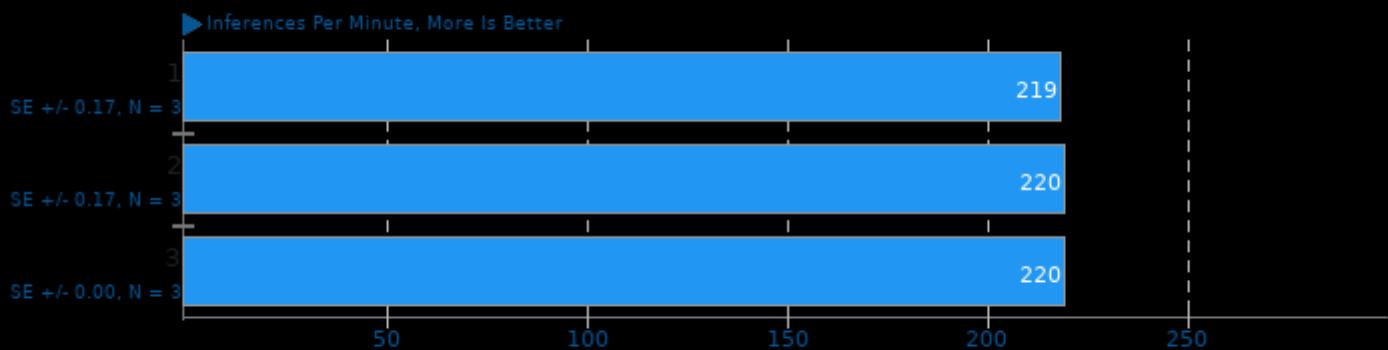
Model: yolov4 - Device: OpenMP CPU



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

ONNX Runtime 1.6

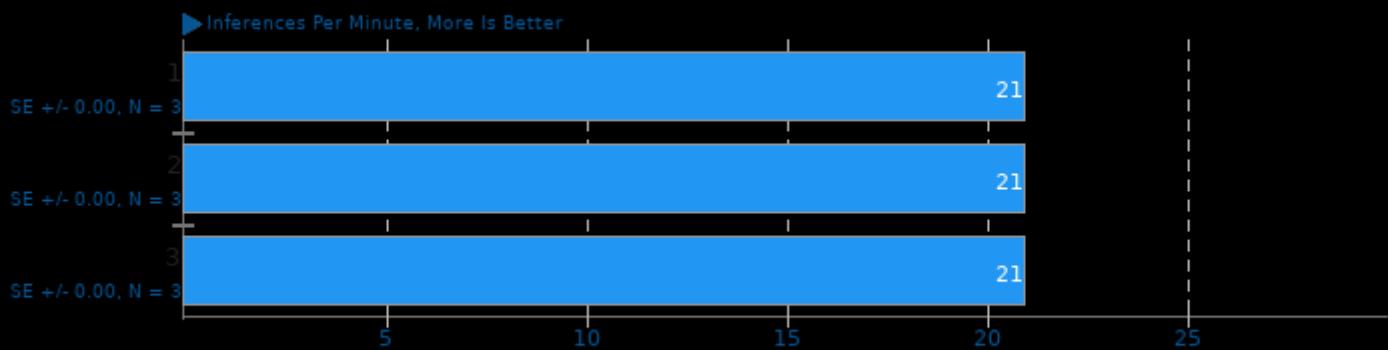
Model: bertsquad-10 - Device: OpenMP CPU



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

ONNX Runtime 1.6

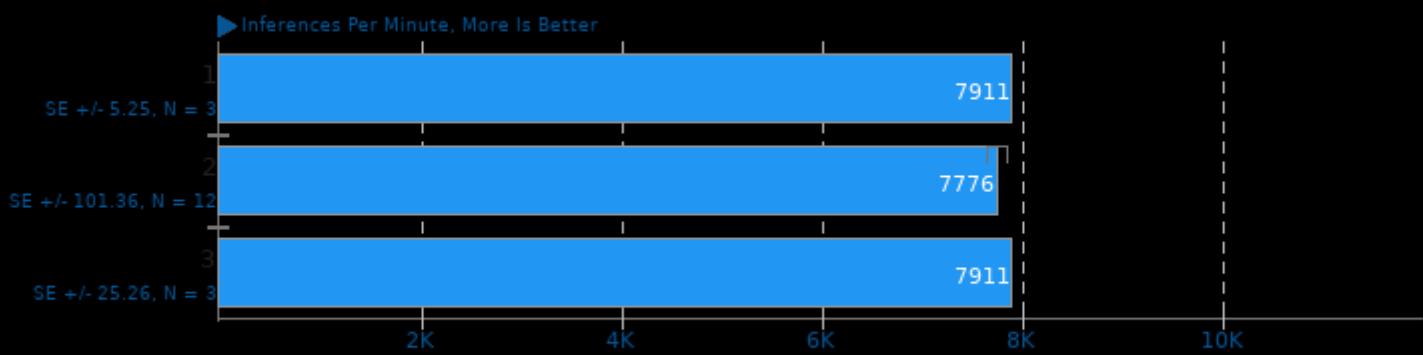
Model: fcn-resnet101-11 - Device: OpenMP CPU



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

ONNX Runtime 1.6

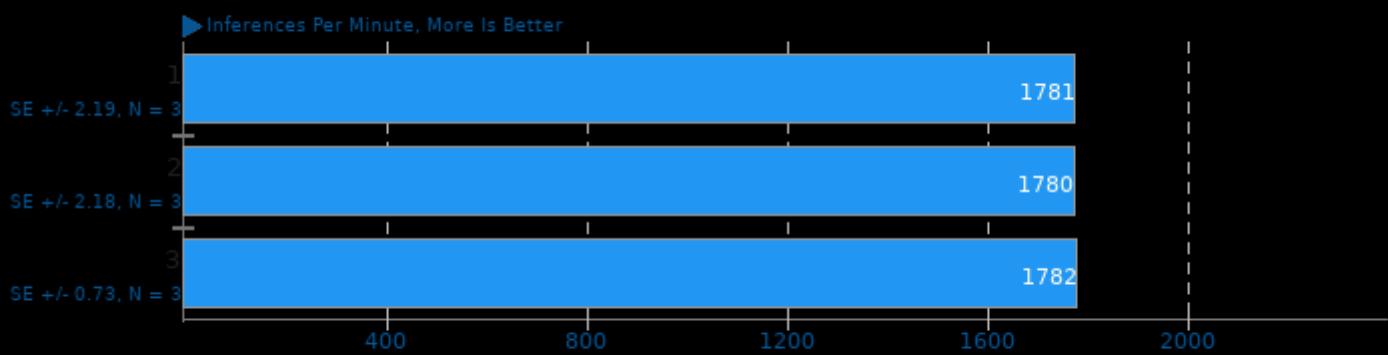
Model: shufflenet-v2-10 - Device: OpenMP CPU



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

ONNX Runtime 1.6

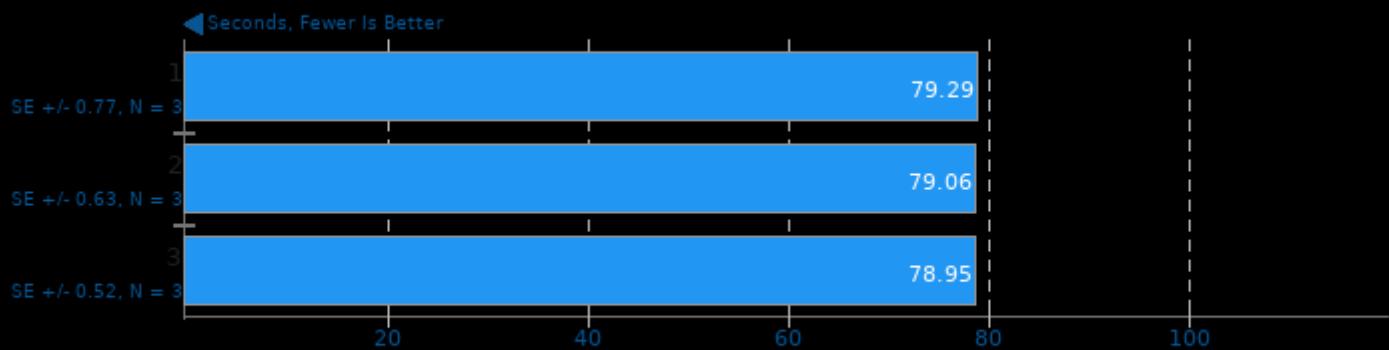
Model: super-resolution-10 - Device: OpenMP CPU



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

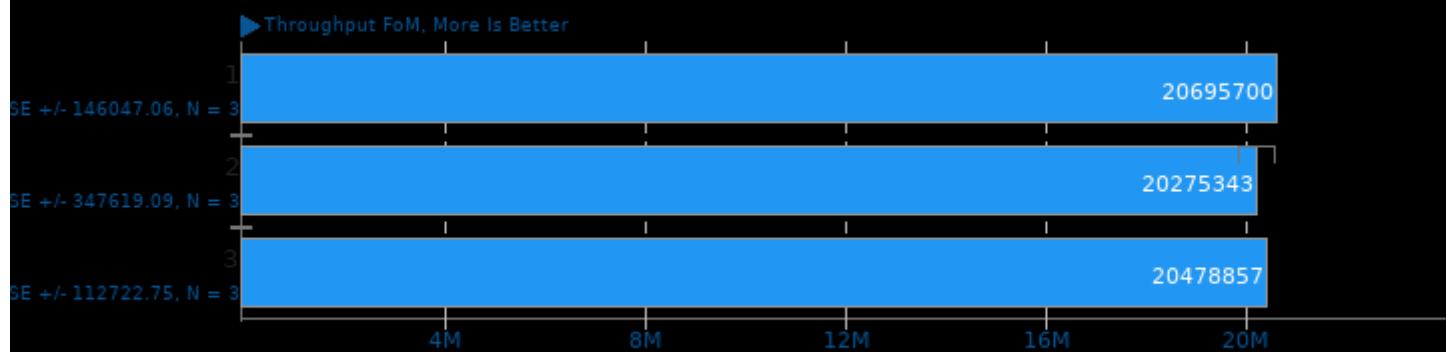
GnuPG 2.2.27

2.7GB Sample File Encryption



1. (CC) gcc options: -O2

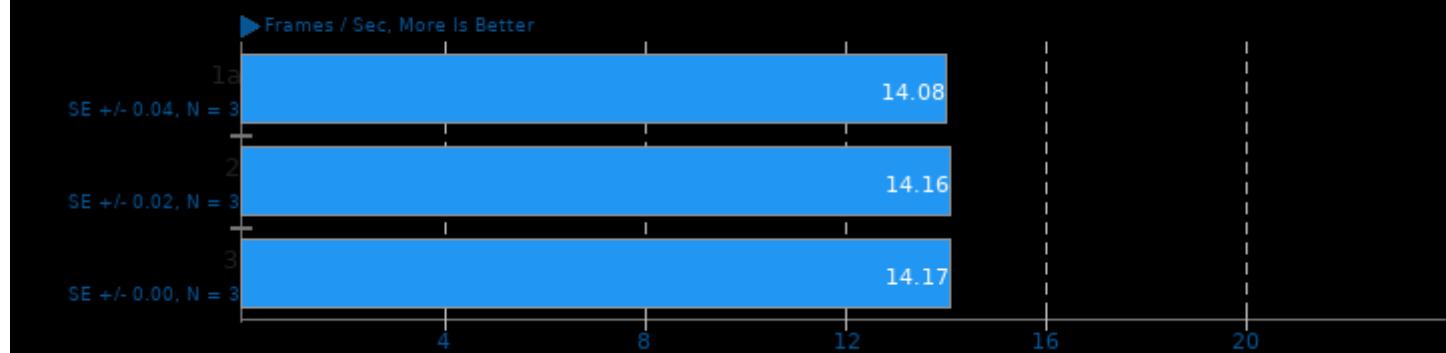
Kripke 1.2.4



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

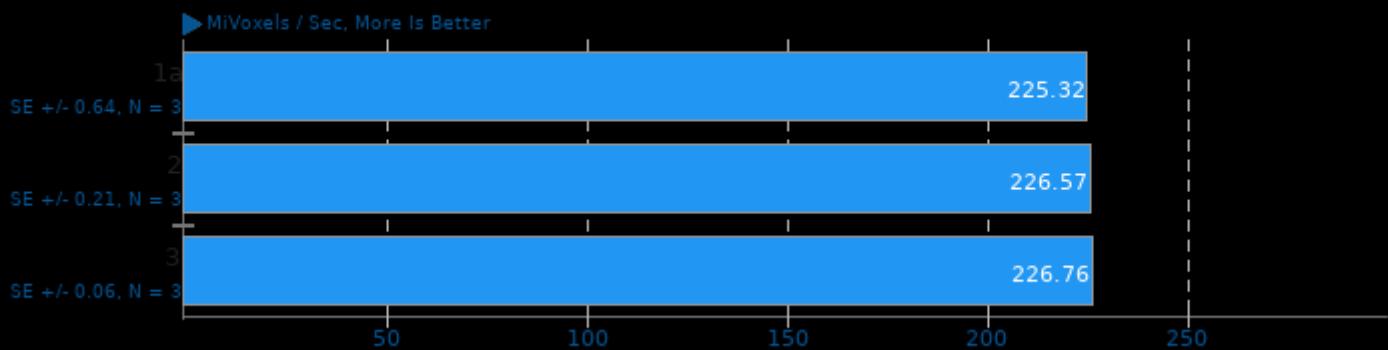
ParaView 5.9

Test: Wavelet Volume - Resolution: 1280 x 1024



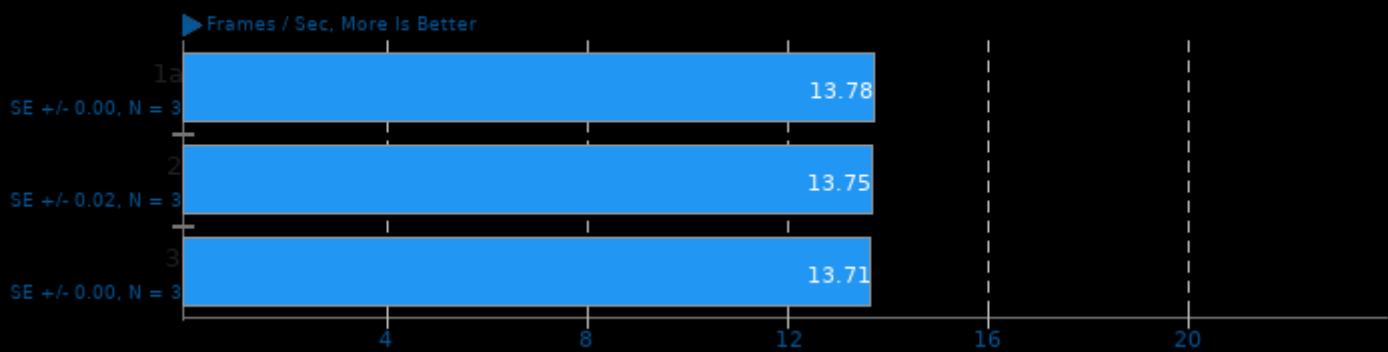
ParaView 5.9

Test: Wavelet Volume - Resolution: 1280 x 1024



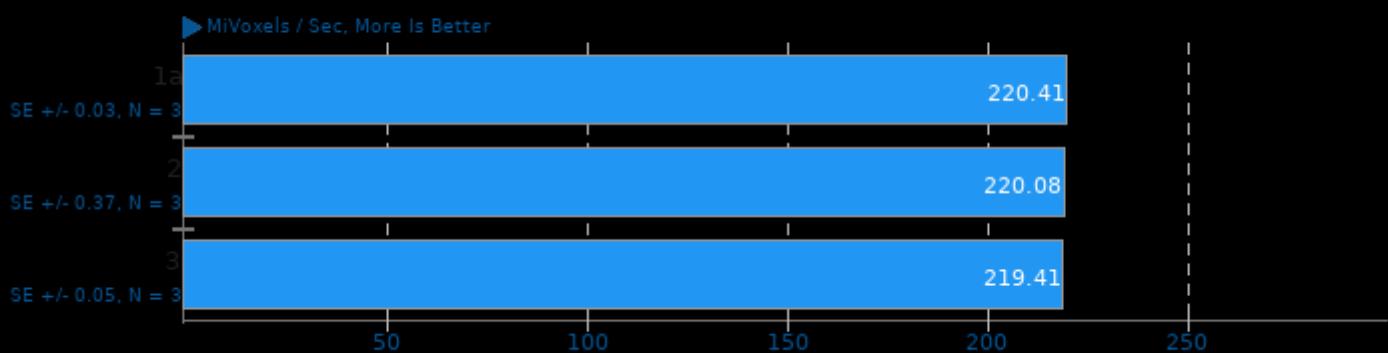
ParaView 5.9

Test: Wavelet Volume - Resolution: 1920 x 1080



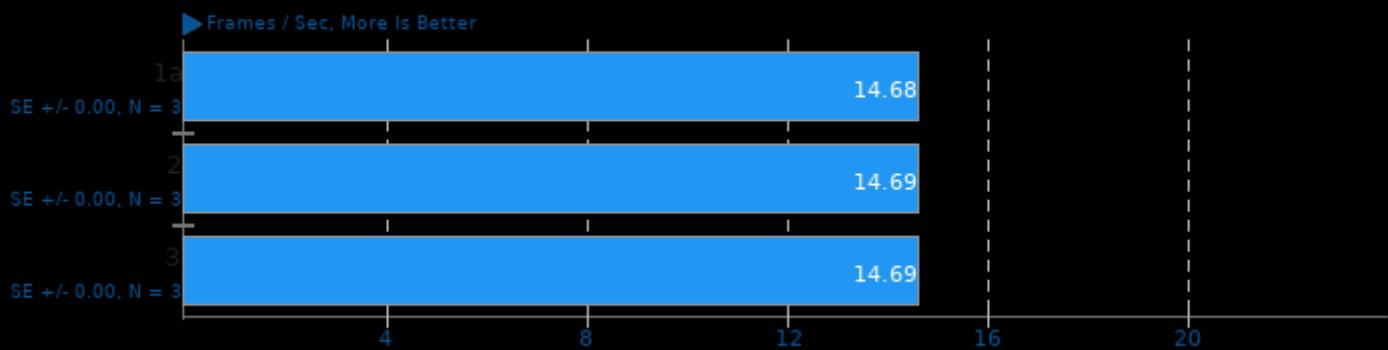
ParaView 5.9

Test: Wavelet Volume - Resolution: 1920 x 1080



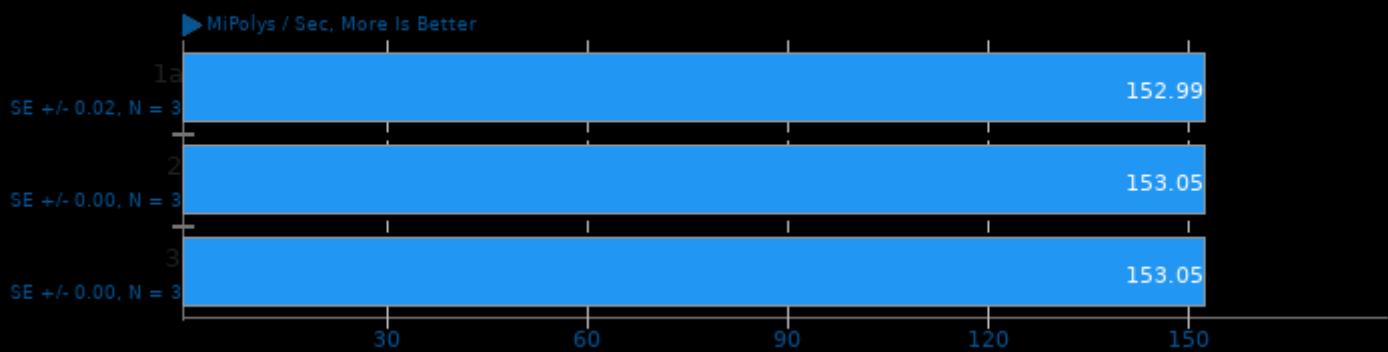
ParaView 5.9

Test: Wavelet Contour - Resolution: 1280 x 1024



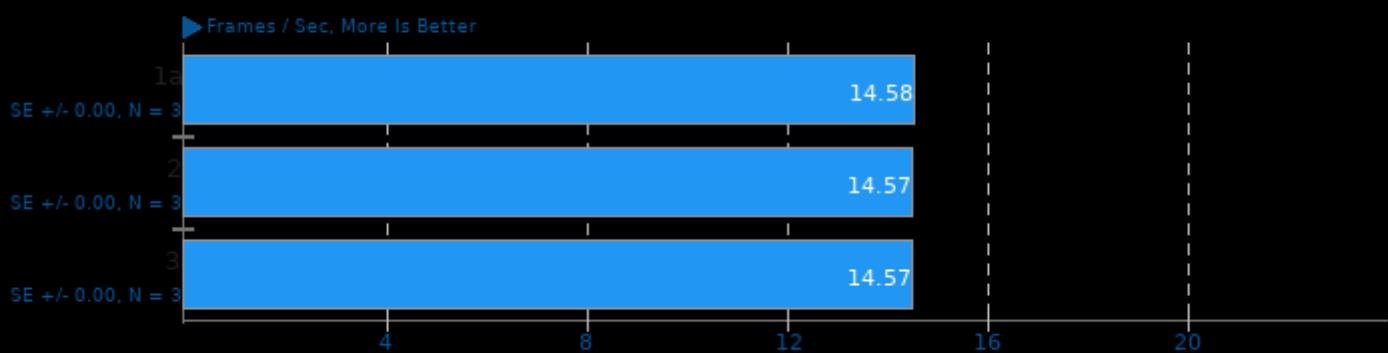
ParaView 5.9

Test: Wavelet Contour - Resolution: 1280 x 1024



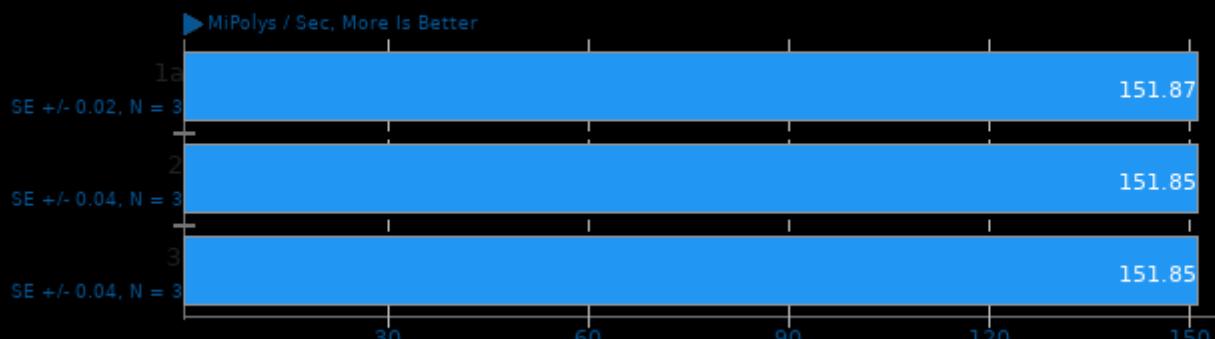
ParaView 5.9

Test: Wavelet Contour - Resolution: 1920 x 1080



ParaView 5.9

Test: Wavelet Contour - Resolution: 1920 x 1080



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