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Xeon E3-1270 v5

Intel Xeon E3-1270 v5 testing with a ASUS E3 PRO GAMING V5 (2606 BIOS) and ASUS NVIDIA NV84 256MB on Ubuntu 20.10 via the Phoronix Test Suite.

Automated Executive Summary

E3-1270 v5 had the most wins, coming in first place for 64% of the tests.

Based on the geometric mean of all complete results, the fastest (Intel E3-1270 v5) was 1.004x the speed of the slowest (Intel Xeon E3-1270 v5). E3-1270 v5 was 0.999x the speed of Intel E3-1270 v5 and Intel Xeon E3-1270 v5 was 0.998x the speed of E3-1270 v5.

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

Redis (Test: LPOP) at 1.584x

Redis (Test: GET) at 1.054x

Node.js V8 Web Tooling Benchmark at 1.022x

simdjson (Throughput Test: Kostya) at 1.02x

LULESH at 1.02x

NCNN (Target: CPU - Model: vgg16) at 1.018x

Redis (Test: SET) at 1.016x

rav1e (Speed: 6) at 1.015x

*rav1e (Speed: 1) at 1.014x
Redis (Test: SADD) at 1.014x.*

Test Systems:

E3-1270 v5

Intel E3-1270 v5

Intel Xeon E3-1270 v5

Processor: Intel Xeon E3-1270 v5 @ 4.00GHz (4 Cores / 8 Threads), Motherboard: ASUS E3 PRO GAMING V5 (2606 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 8GB, Disk: 256GB Samsung SSD 850, Graphics: ASUS NVIDIA NV84 256MB, Audio: Realtek ALC1150, Monitor: DELL S2409W, Network: Intel I219-LM

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, 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/us r,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v

Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xdcc - ThermalD 2.3

Python Notes: Python 3.8.6

Security Notes: itlb_multihit: KVM: Mitigation of VMX unsupported + I1tf: 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/swapgs 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

	E3-1270 v5	Intel E3-1270 v5	Intel Xeon E3-1270
Timed HMMer Search - P.D.S (sec)	119.069	119.099	119.113
Normalized	100%	99.97%	99.96%
Standard Deviation	0.2%	0.2%	0.1%
Incompact3D - Cylinder (sec)	717.224487	717.439494	717.162008
Normalized	99.99%	99.96%	100%
Standard Deviation	0.4%	0.1%	0.1%
LULESH (z/s)	713.91083	714.74725	700.70997
Normalized	99.88%	100%	98.04%
Standard Deviation	4.2%	0.1%	0.8%
WebP Image Encode - Default (Encode Time - sec)	1.644	1.647	1.645
Normalized	100%	99.82%	99.94%
Standard Deviation	0.1%	0.1%	0.1%

WebP Image Encode - Quality 100 (Encode Time - sec)	2.608	2.612	2.616
Normalized	100%	99.85%	99.69%
Standard Deviation	0.2%	0.1%	0.3%
WebP Image Encode - Q.1.L (Encode Time - sec)	18.956	18.984	19.088
Normalized	100%	99.85%	99.31%
Standard Deviation	0.1%	0.1%	0.2%
WebP Image Encode - Q.1.H.C (Encode Time - sec)	8.004	8.013	7.986
Normalized	99.78%	99.66%	100%
Standard Deviation	0.3%	0.3%	0.5%
WebP Image Encode - Q.1.L.H.C (Encode Time - sec)	50.763	50.858	51.283
Normalized	100%	99.81%	98.99%
Standard Deviation	0.4%	0.3%	0.1%
simdjson - Kostya (GB/s)	0.49	0.50	0.49
Normalized	98%	100%	98%
Standard Deviation	0%	1.2%	1.2%
simdjson - LargeRand (GB/s)	0.38	0.38	0.38
Standard Deviation	0%	0%	0%
simdjson - PartialTweets (GB/s)	0.62	0.62	0.62
Standard Deviation	0%	0%	0%
simdjson - DistinctUserID (GB/s)	0.63	0.63	0.63
Standard Deviation	0%	0%	0%
LibRaw - P.P.B (Mpix/sec)	25.51	25.48	25.46
Normalized	100%	99.88%	99.8%
Standard Deviation	0.1%	0.2%	0.1%
rav1e - 1 (FPS)	0.353	0.358	0.358
Normalized	98.6%	100%	100%
Standard Deviation	1.6%	1%	0.5%
rav1e - 5 (FPS)	1.002	1.000	0.995
Normalized	100%	99.8%	99.3%
Standard Deviation	1.6%	0.4%	2.4%
rav1e - 6 (FPS)	1.298	1.309	1.290
Normalized	99.16%	100%	98.55%
Standard Deviation	2.5%	0.5%	2.4%
rav1e - 10 (FPS)	2.687	2.670	2.699
Normalized	99.56%	98.93%	100%
Standard Deviation	2.4%	2.4%	1.8%
VP9 libvpx Encoding - Speed 0 (FPS)	6.36	6.34	
Normalized	100%	99.69%	
Standard Deviation	0.3%	0.1%	
VP9 libvpx Encoding - Speed 5 (FPS)	22.80	22.75	
Normalized	100%	99.78%	
Standard Deviation	0.4%	0.5%	
Coremark - CoreMark Size 666 - I.P.S (Iterations/Sec)	151551	152098	
Normalized	99.64%	100%	
Standard Deviation	1.1%	1.3%	
Himeno Benchmark - P.P.S (MFLOPS)	3183	3182	
Normalized	100%	99.96%	
Standard Deviation	0.2%	0.3%	
Build2 - Time To Compile (sec)	338.030	338.422	

Normalized	100%	99.88%
Standard Deviation	0.6%	0.7%
Numpy Benchmark (Score)	313.03	309.14
Normalized	100%	98.76%
Standard Deviation	0.2%	0.3%
Timed Eigen Compilation - Time To Compile (sec)	88.019	88.214
Normalized	100%	99.78%
Standard Deviation	0.2%	0%
Monkey Audio Encoding - WAV To APE (sec)	12.514	12.560
Normalized	100%	99.63%
Standard Deviation	0.9%	0.6%
LAME MP3 Encoding - WAV To MP3 (sec)	9.438	9.428
Normalized	99.89%	100%
Standard Deviation	0.1%	0.1%
Opus Codec Encoding - WAV To Opus Encode (sec)	9.464	9.446
Normalized	99.81%	100%
Standard Deviation	0.7%	0.3%
eSpeak-NG Speech Engine - T.T.S.S (sec)	30.280	30.191
Normalized	99.71%	100%
Standard Deviation	2.1%	0.6%
Node.js V8 Web Tooling Benchmark (runs/s)	10.53	10.30
Normalized	100%	97.82%
Standard Deviation	2.1%	1.5%
Cryptsetup - PBKDF2-sha512 (Iterations/sec)	1616510	1612393
Normalized	100%	99.75%
Standard Deviation	0.1%	0.5%
Cryptsetup - PBKDF2-whirlpool	679131	679132
Normalized	100%	100%
Standard Deviation	0.2%	0.3%
Cryptsetup - A.X.2.E (MiB/s)	2093	2093
Normalized	99.97%	100%
Standard Deviation	0.1%	0.1%
Cryptsetup - A.X.2.D (MiB/s)	2102	2099
Normalized	100%	99.85%
Standard Deviation	0.2%	0.1%
Cryptsetup - S.X.2.E (MiB/s)	722.1	721.5
Normalized	100%	99.92%
Standard Deviation	0.1%	0.1%
Cryptsetup - S.X.2.D (MiB/s)	736.9	736.0
Normalized	100%	99.88%
Standard Deviation	0.1%	0.1%
Cryptsetup - T.X.2.E (MiB/s)	399.4	400.1
Normalized	99.83%	100%
Standard Deviation	0.1%	0%
Cryptsetup - T.X.2.D (MiB/s)	403.6	403.8
Normalized	99.95%	100%
Standard Deviation	0.1%	0.1%
Cryptsetup - A.X.5.E (MiB/s)	1879	1879
Normalized	100%	99.98%
Standard Deviation	0.1%	0.1%
Cryptsetup - A.X.5.D (MiB/s)	1879	1878
Normalized	100%	99.95%
Standard Deviation	0%	0.1%

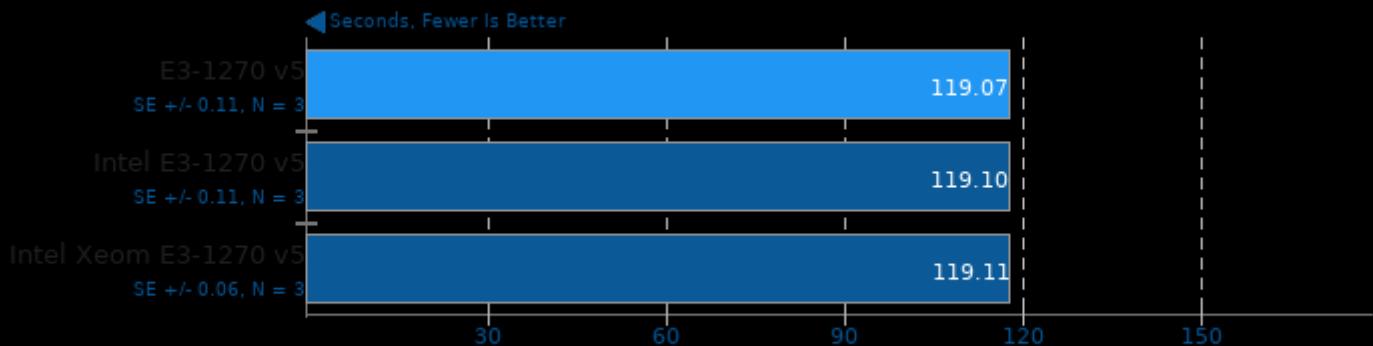
Cryptsetup - S.X.5.E (MiB/s)	722.4	721.4
Normalized	100%	99.86%
Standard Deviation	0.2%	0.1%
Cryptsetup - S.X.5.D (MiB/s)	736.6	735.8
Normalized	100%	99.89%
Standard Deviation	0.1%	0.1%
Cryptsetup - T.X.5.E (MiB/s)	400.5	399.9
Normalized	100%	99.85%
Standard Deviation	0.1%	0.1%
Cryptsetup - T.X.5.D (MiB/s)	403.9	403.7
Normalized	100%	99.95%
Standard Deviation	0.2%	0.1%
KeyDB (Ops/sec)	390807	389015
Normalized	100%	99.54%
Standard Deviation	1.6%	1.8%
SQLite Speedtest - Timed Time - Size 1,000 (sec)	71.227	71.885
Normalized	100%	99.08%
Standard Deviation	0.2%	0.3%
Darktable - Boat - CPU-only (sec)	24.912	24.979
Normalized	100%	99.73%
Standard Deviation	0.1%	0.2%
Darktable - Masskrug - CPU-only (sec)	17.640	17.664
Normalized	100%	99.86%
Standard Deviation	0.3%	0.2%
Darktable - Server Rack - CPU-only (sec)	0.303	0.303
Standard Deviation	0.8%	0.4%
Darktable - Server Room - CPU-only (sec)	16.331	16.376
Normalized	100%	99.73%
Standard Deviation	0.1%	0.2%
GIMP - resize (sec)	10.121	10.117
Normalized	99.96%	100%
Standard Deviation	1.9%	1.6%
GIMP - rotate (sec)	13.206	13.274
Normalized	100%	99.49%
Standard Deviation	0.1%	0.1%
GIMP - auto-levels (sec)	13.955	13.985
Normalized	100%	99.79%
Standard Deviation	0.3%	0.4%
GIMP - unsharp-mask (sec)	16.478	16.581
Normalized	100%	99.38%
Standard Deviation	0.2%	0.2%
Redis - LPOP (Reqs/sec)	2474738	1562349
Normalized	100%	63.13%
Standard Deviation	2.5%	1.9%
Redis - SADD (Reqs/sec)	1968166	1995091
Normalized	98.65%	100%
Standard Deviation	2.5%	0.8%
Redis - LPUSH (Reqs/sec)	1553842	1554867
Normalized	99.93%	100%
Standard Deviation	0.3%	1.3%
Redis - GET (Reqs/sec)	2333326	2213002
Normalized	100%	94.84%
Standard Deviation	1.1%	2.4%
Redis - SET (Reqs/sec)	1727820	1755141

Normalized	98.44%	100%
Standard Deviation	4.5%	1.7%
NCNN - CPU - mobilenet (ms)	30.95	31.07
Normalized	100%	99.61%
Standard Deviation	0.3%	0.3%
NCNN - CPU-v2-v2 - mobilenet-v2 (ms)	7.91	8.00
Normalized	100%	98.88%
Standard Deviation	0.9%	1.8%
NCNN - CPU-v3-v3 - mobilenet-v3 (ms)	6.62	6.65
Normalized	100%	99.55%
Standard Deviation	1%	2%
NCNN - CPU - shufflenet-v2 (ms)	9.12	9.12
Normalized	0.9%	1%
NCNN - CPU - mnasnet (ms)	6.35	6.33
Normalized	99.69%	100%
Standard Deviation	0.2%	0.2%
NCNN - CPU - efficientnet-b0 (ms)	10.41	10.49
Normalized	100%	99.24%
Standard Deviation	0.2%	0.7%
NCNN - CPU - blazeface (ms)	2.51	2.52
Normalized	100%	99.6%
Standard Deviation	0.2%	1.6%
NCNN - CPU - googlenet (ms)	21.86	21.94
Normalized	100%	99.64%
Standard Deviation	0.3%	0.2%
NCNN - CPU - vgg16 (ms)	98.70	96.93
Normalized	98.21%	100%
Standard Deviation	0.2%	0.1%
NCNN - CPU - resnet18 (ms)	24.71	24.75
Normalized	100%	99.84%
Standard Deviation	0.2%	0.3%
NCNN - CPU - alexnet (ms)	22.92	22.87
Normalized	99.78%	100%
Standard Deviation	0.3%	0.1%
NCNN - CPU - resnet50 (ms)	50.40	50.65
Normalized	100%	99.51%
Standard Deviation	0.4%	0.2%
NCNN - CPU - yolov4-tiny (ms)	41.05	41.43
Normalized	100%	99.08%
Standard Deviation	0.1%	0%
NCNN - CPU - squeezenet_ssd (ms)	30.38	30.43
Normalized	100%	99.84%
Standard Deviation	0.2%	0.1%
NCNN - CPU - regnety_400m (ms)	16.95	16.86
Normalized	99.47%	100%
Standard Deviation	0.1%	0.5%
Hierarchical INTegration - FLOAT (QUIPs)	376886865	378559854
Normalized	99.56%	100%
Standard Deviation	0.4%	0.1%
PHPBench - P.B.S (Score)	666317	669904
Normalized	99.46%	100%
Standard Deviation	0.7%	0.2%
WavPack Audio Encoding - WAV To WavPack (sec)	16.466	16.441
Normalized	99.85%	100%

	Standard Deviation	0.5%	0.1%
Scikit-Learn (sec)	155.577	155.223	
Normalized	99.77%	100%	
Standard Deviation	0.3%	0.2%	
InfluxDB - 4 - 10000 - 2,5000,1 - 10000	1020869		
Standard Deviation	0.2%		
InfluxDB - 64 - 10000 - 2,5000,1 - 10000	1041882		
(val/sec)			
Standard Deviation	0.3%		
InfluxDB - 1024 - 10000 - 2,5000,1 - 10000	1053623		
(val/sec)			
Standard Deviation	0.2%		

Timed HMMer Search 3.3.1

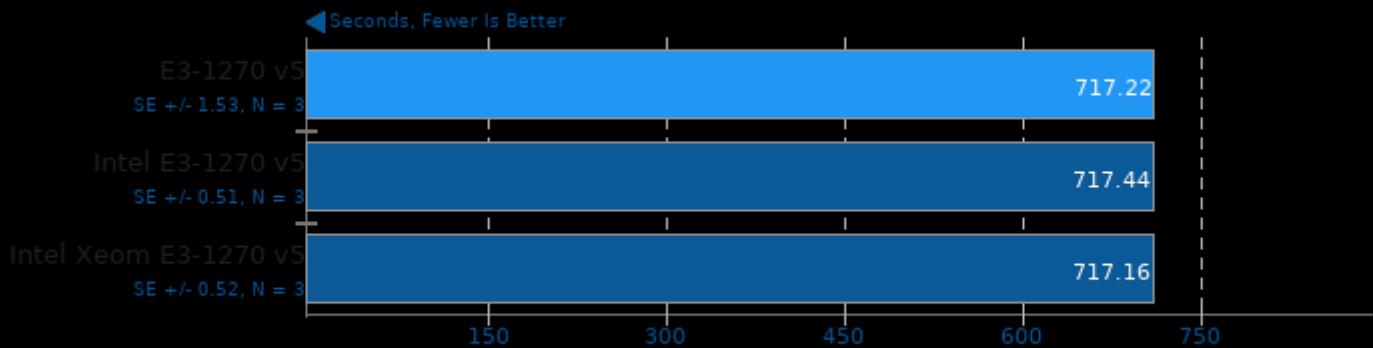
Pfam Database Search



1. (CC) gcc options: -O3 -pthread -lhmmer -leasel -lm

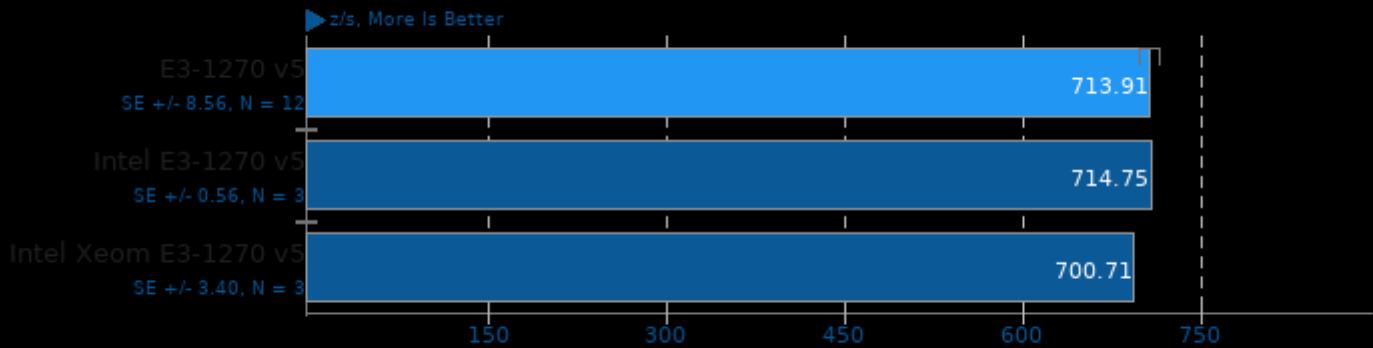
Incompact3D 2020-09-17

Input: Cylinder



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

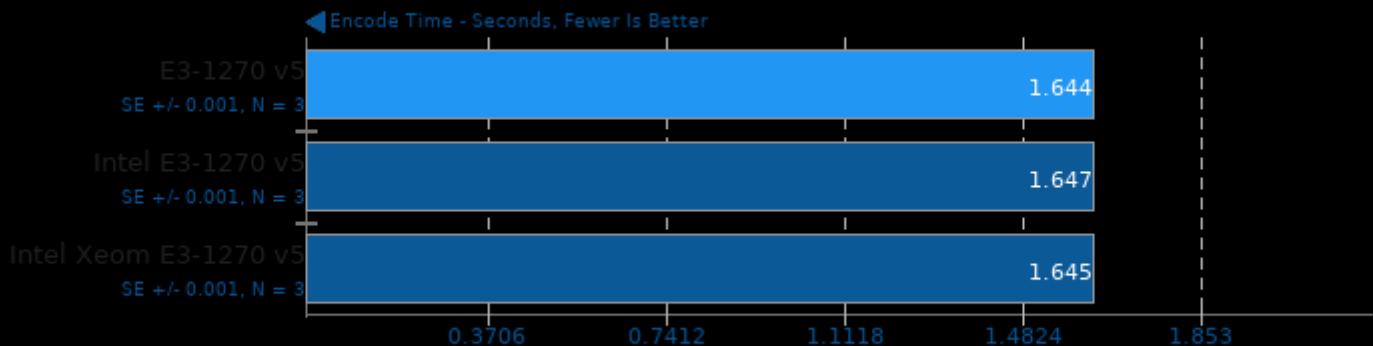
LULESH 2.0.3



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

WebP Image Encode 1.1

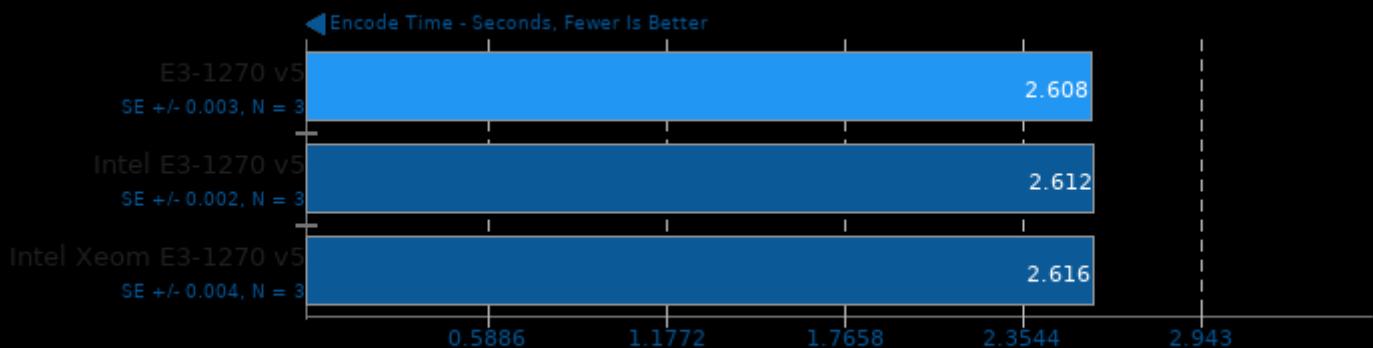
Encode Settings: Default



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

WebP Image Encode 1.1

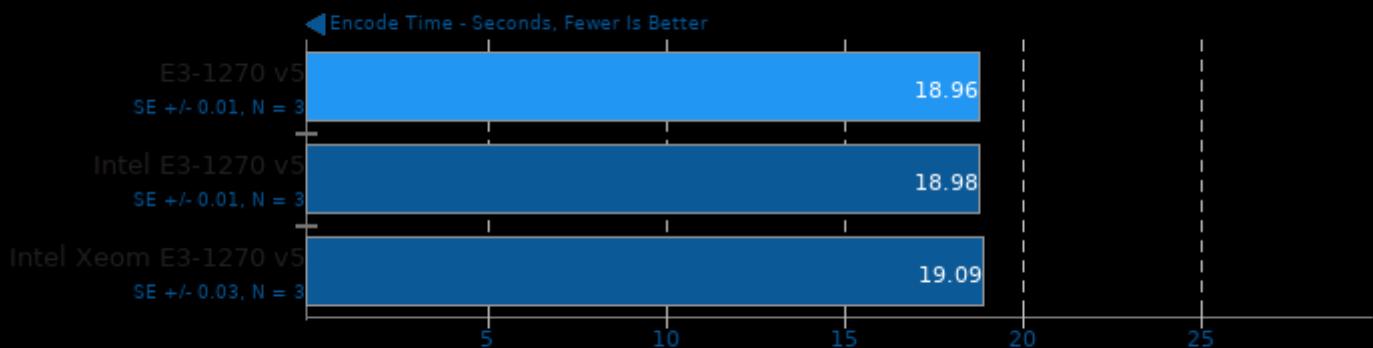
Encode Settings: Quality 100



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

WebP Image Encode 1.1

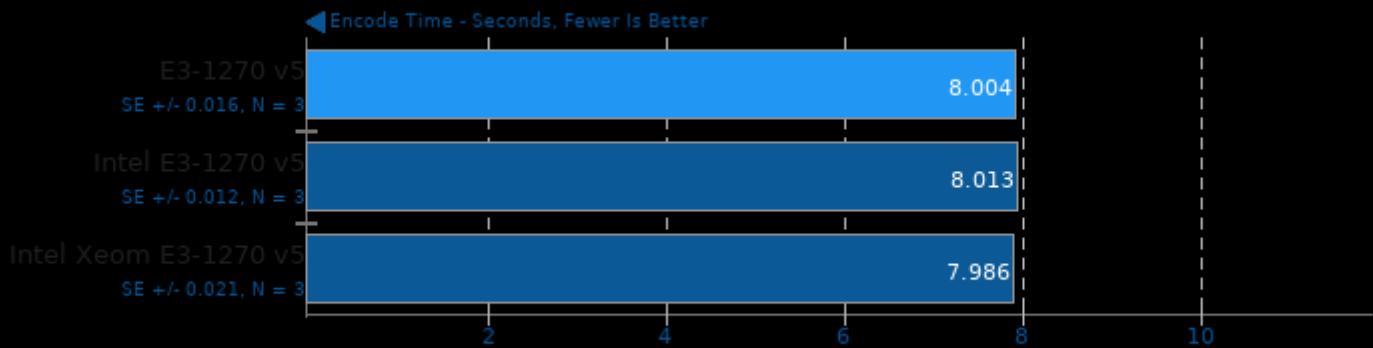
Encode Settings: Quality 100, Lossless



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

WebP Image Encode 1.1

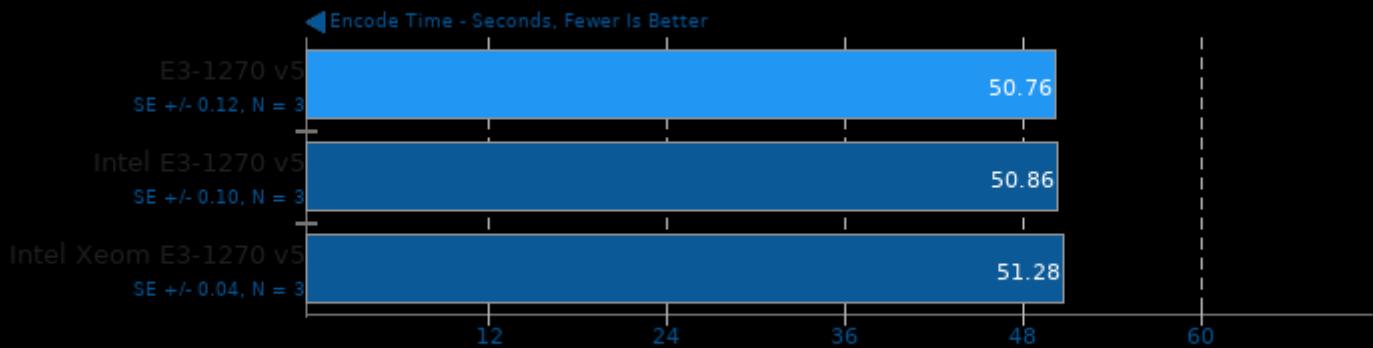
Encode Settings: Quality 100, Highest Compression



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

WebP Image Encode 1.1

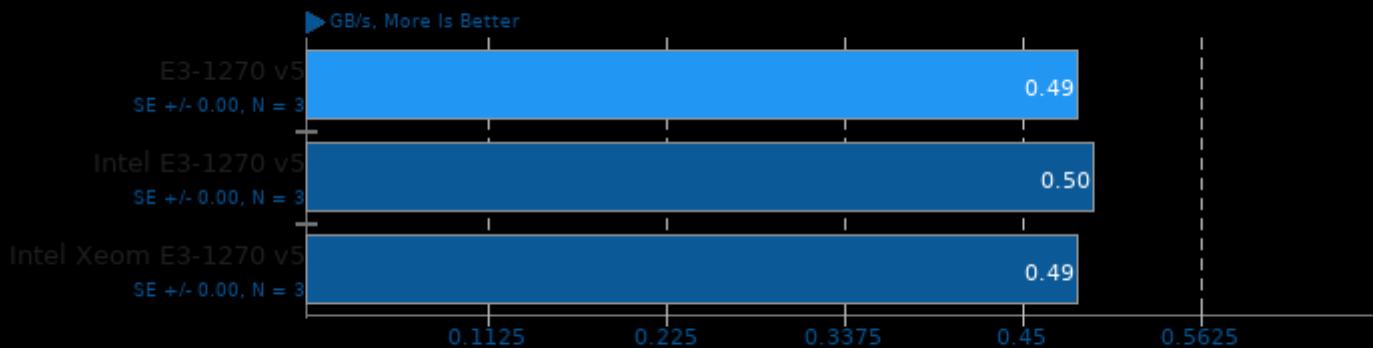
Encode Settings: Quality 100, Lossless, Highest Compression



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

simdjson 0.7.1

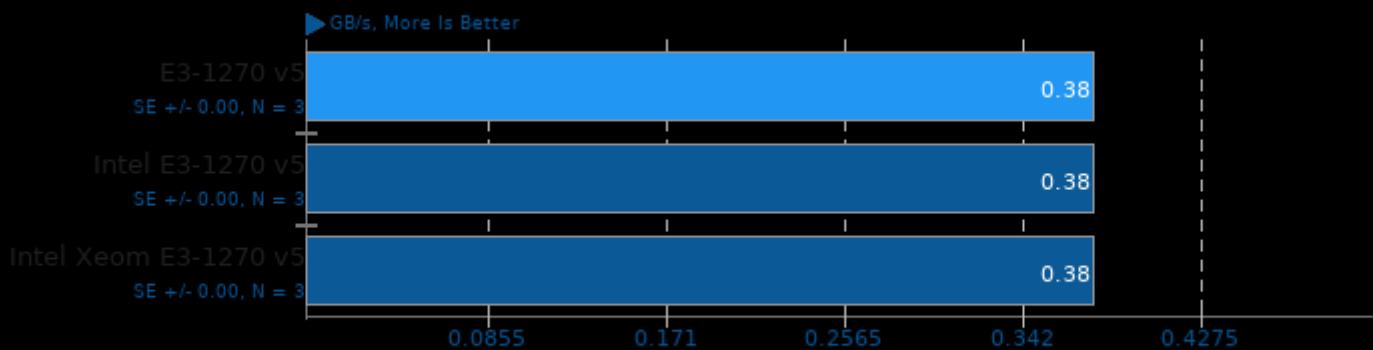
Throughput Test: Kostya



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

simdjson 0.7.1

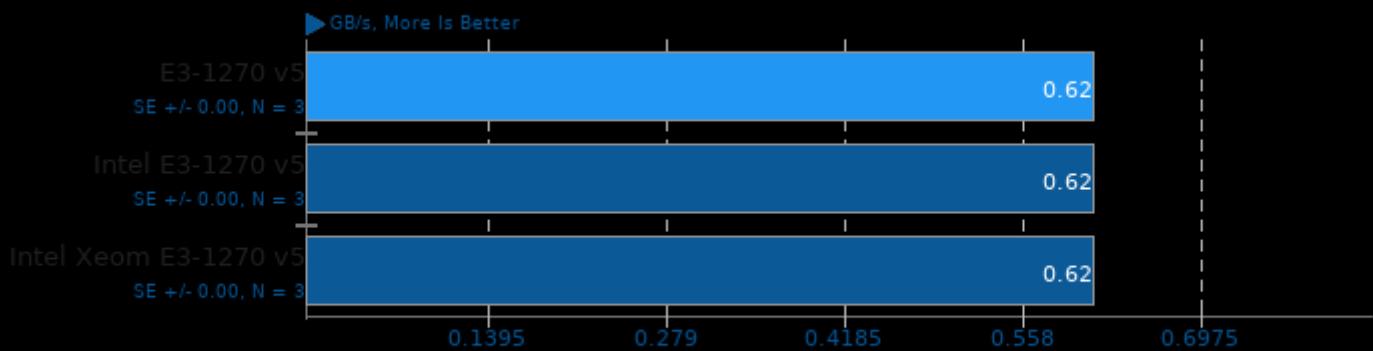
Throughput Test: LargeRandom



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

simdjson 0.7.1

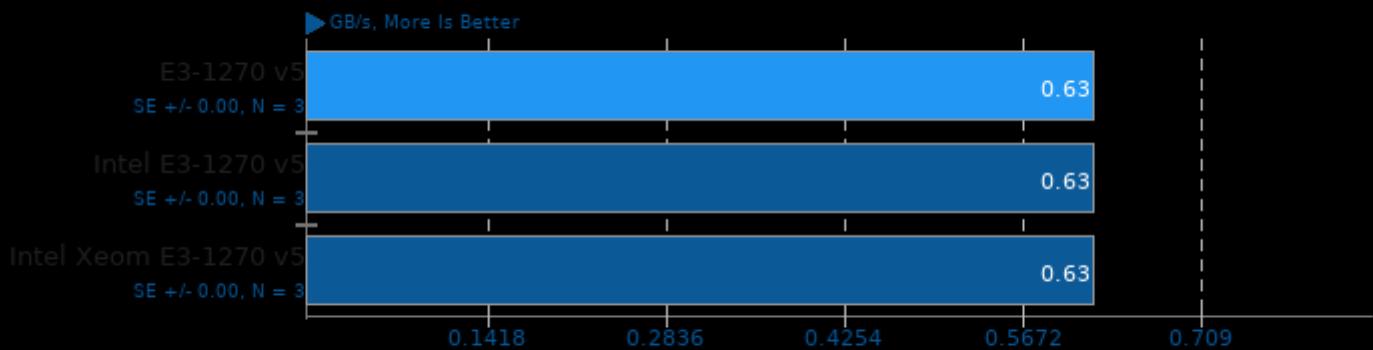
Throughput Test: PartialTweets



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

simdjson 0.7.1

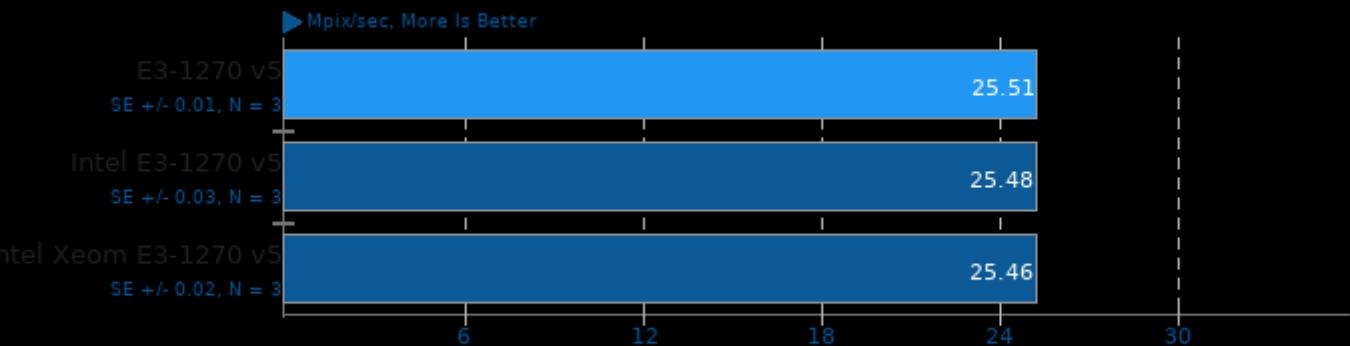
Throughput Test: DistinctUserID



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

LibRaw 0.20

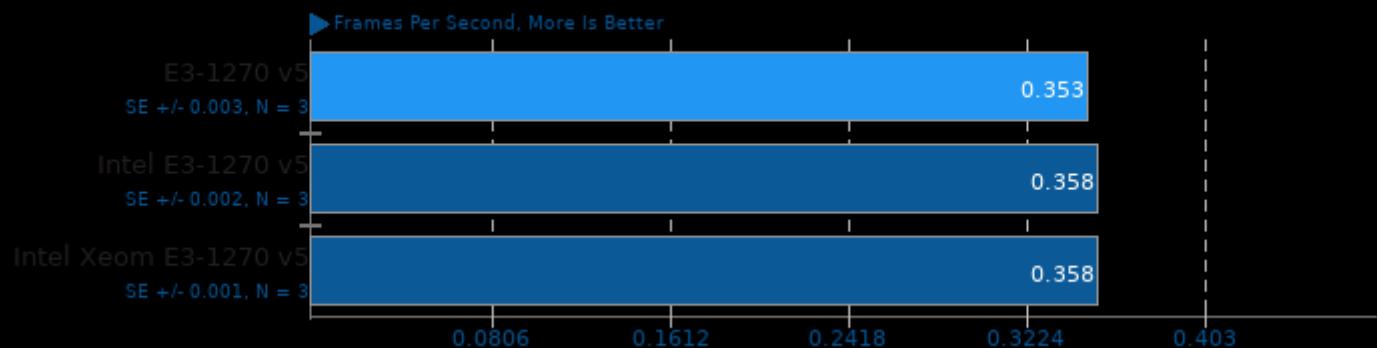
Post-Processing Benchmark



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

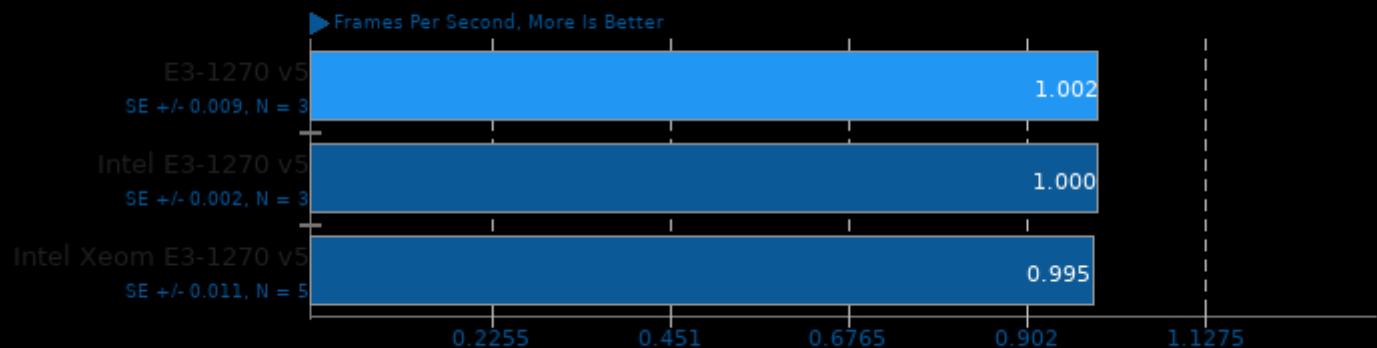
rav1e 0.4 Alpha

Speed: 1



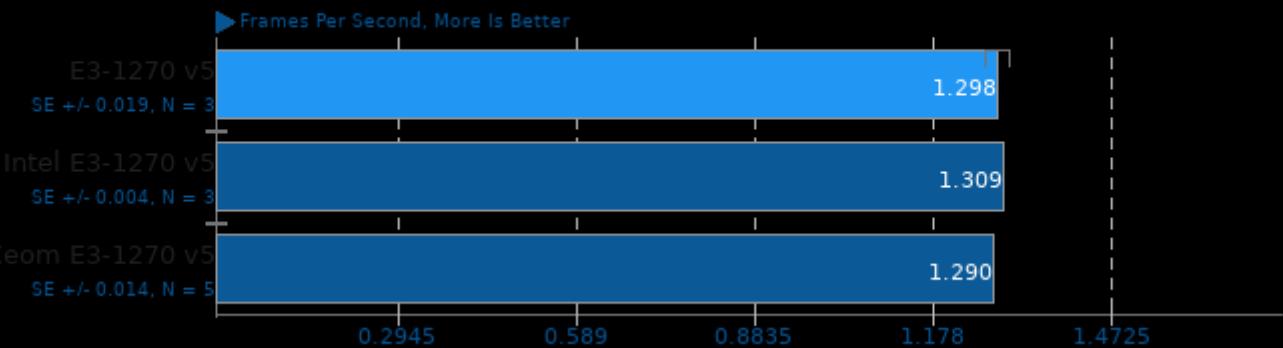
rav1e 0.4 Alpha

Speed: 5

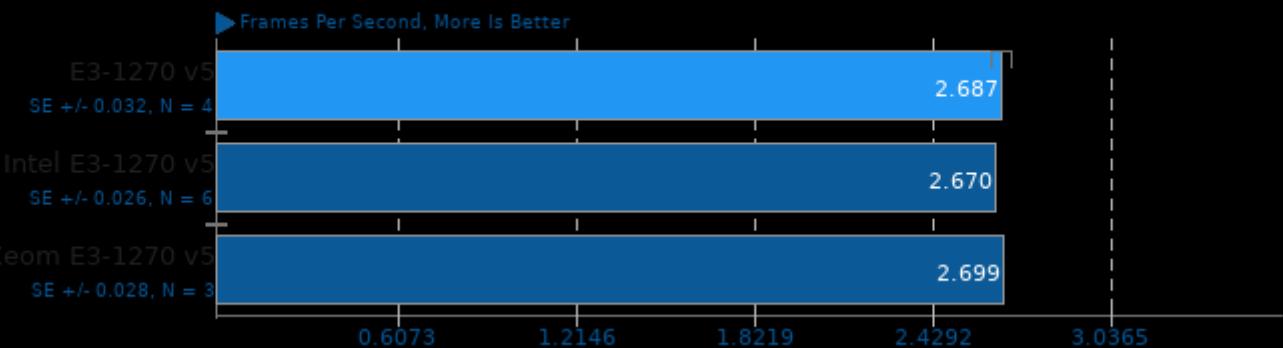


rav1e 0.4 Alpha

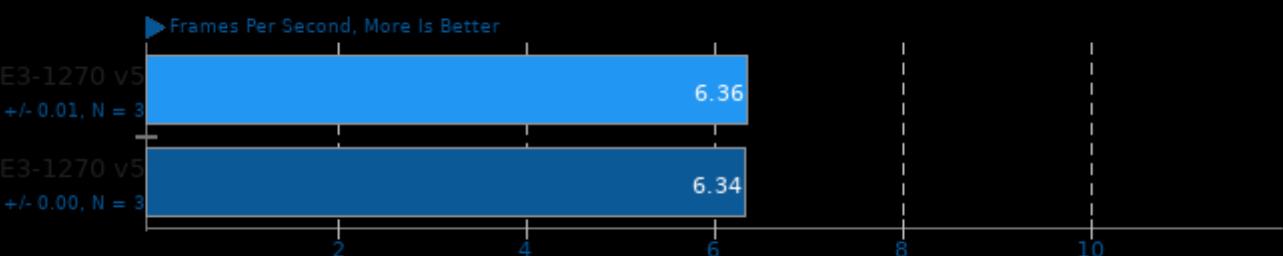
Speed: 6

**rav1e 0.4 Alpha**

Speed: 10

**VP9 libvpx Encoding 1.8.2**

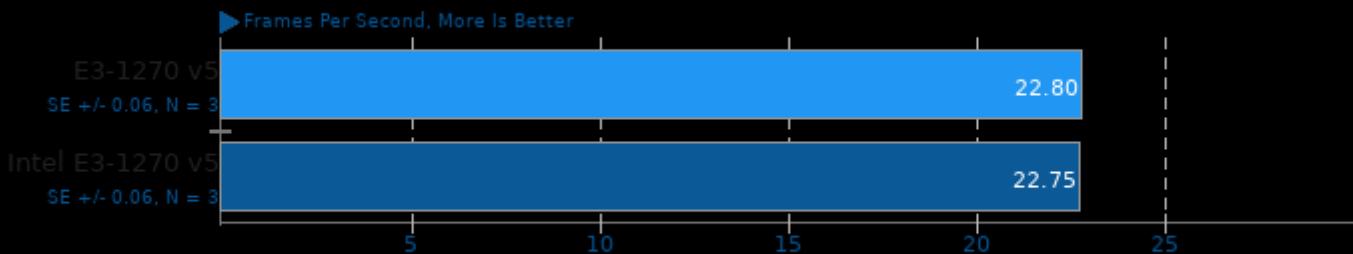
Speed: Speed 0



1. (CXX) g++ options: -m64 -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=c++11

VP9 libvpx Encoding 1.8.2

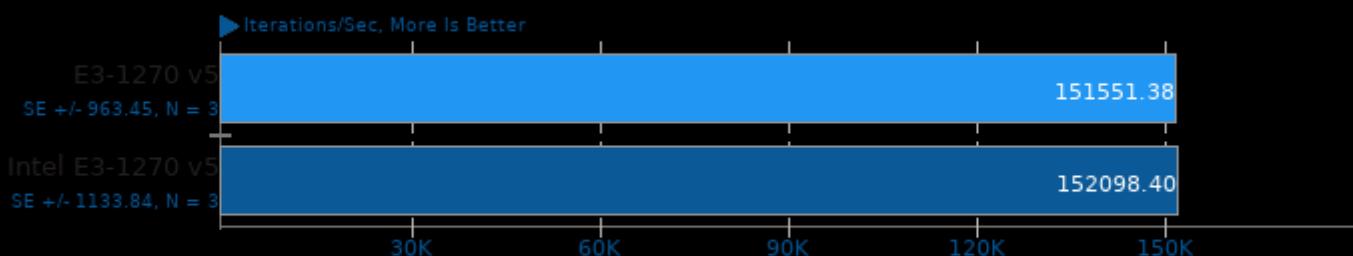
Speed: Speed 5



1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=c++11

Coremark 1.0

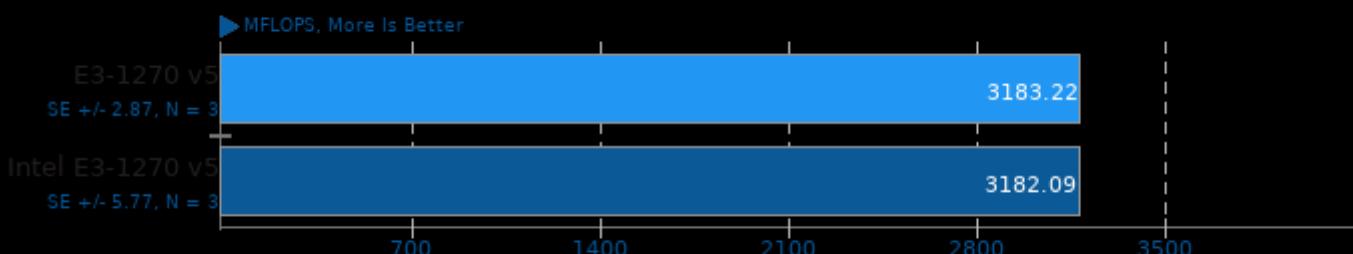
CoreMark Size 666 - Iterations Per Second



1. (CC) gcc options: -O2 -fPIE -fPIE

Himeno Benchmark 3.0

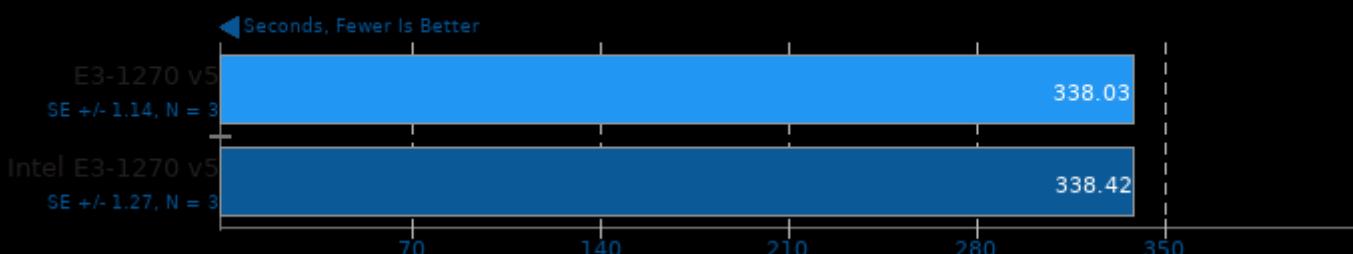
Poisson Pressure Solver



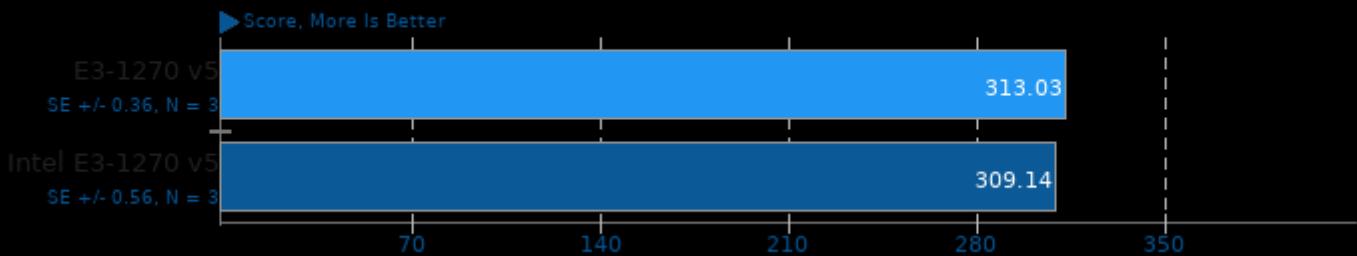
1. (CC) gcc options: -O3 -mavx2

Build2 0.13

Time To Compile

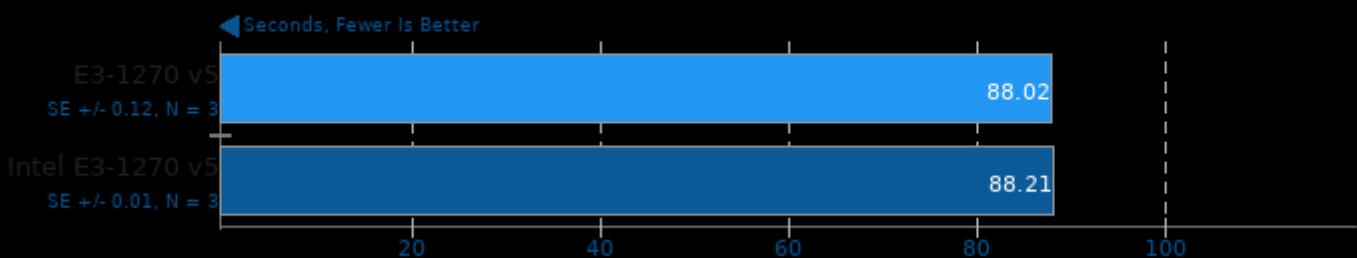


Numpy Benchmark



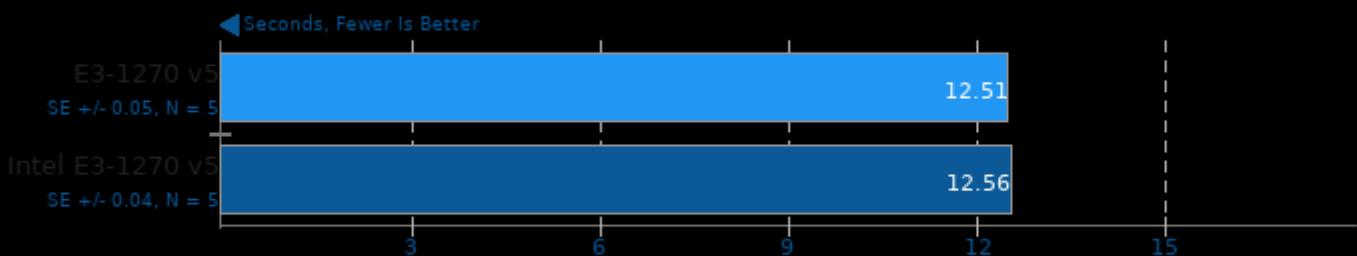
Timed Eigen Compilation 3.3.9

Time To Compile



Monkey Audio Encoding 3.99.6

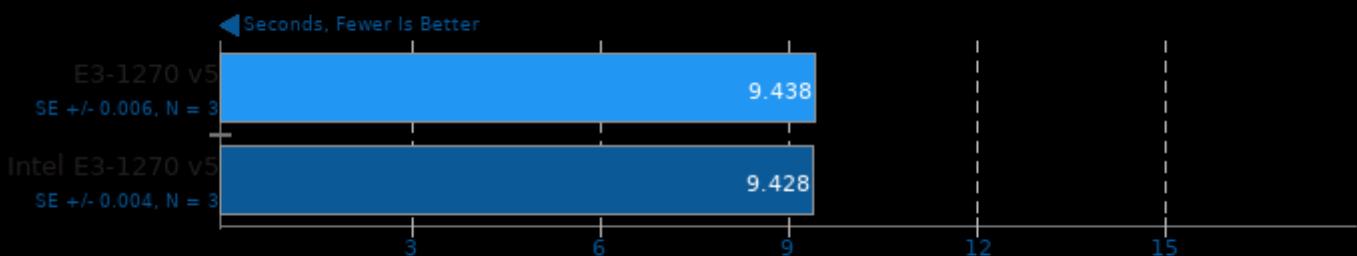
WAV To APE



1. (CXX) g++ options: -O3 -pedantic -rdynamic -lnt

LAME MP3 Encoding 3.100

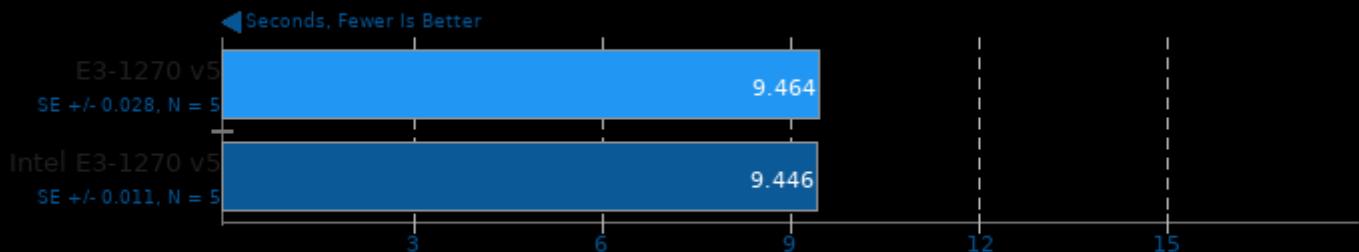
WAV To MP3



1. (CC) gcc options: -O3 -ffast-math -funroll-loops -fschedule-insns2 -fbranch-count-reg -fforce-addr -pipe -lm

Opus Codec Encoding 1.3.1

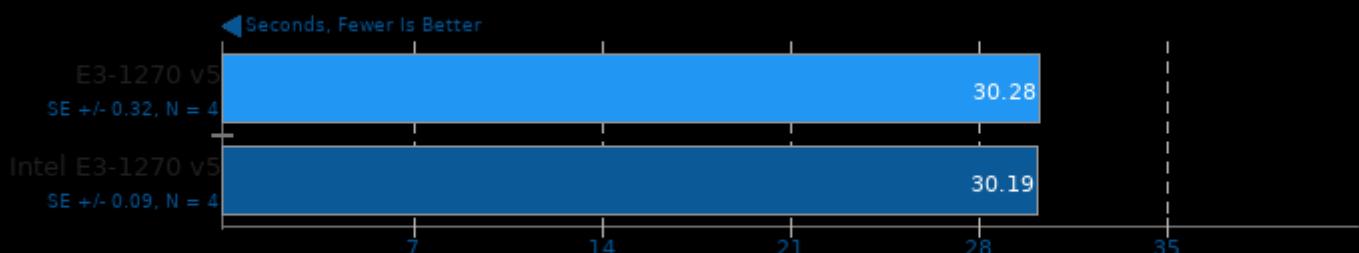
WAV To Opus Encode



1. (CXX) g++ options: -fvisibility=hidden -llog -lm

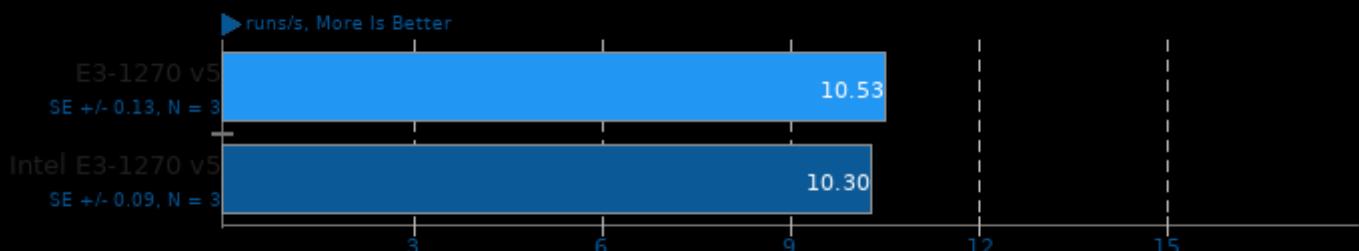
eSpeak-NG Speech Engine 20200907

Text-To-Speech Synthesis



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

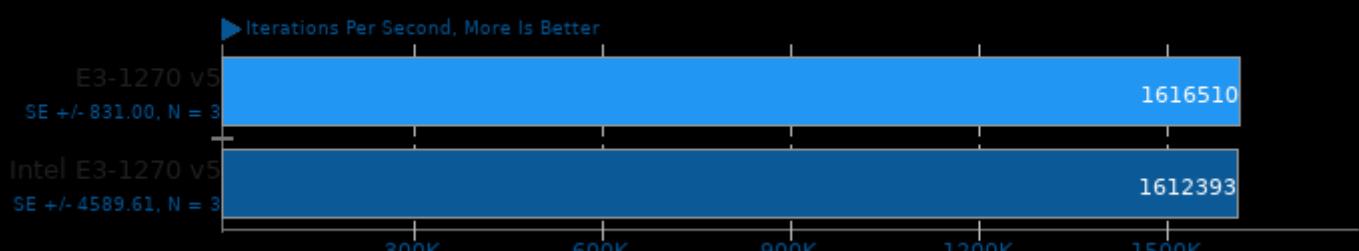
Node.js V8 Web Tooling Benchmark



1. Nodejs
v12.18.2

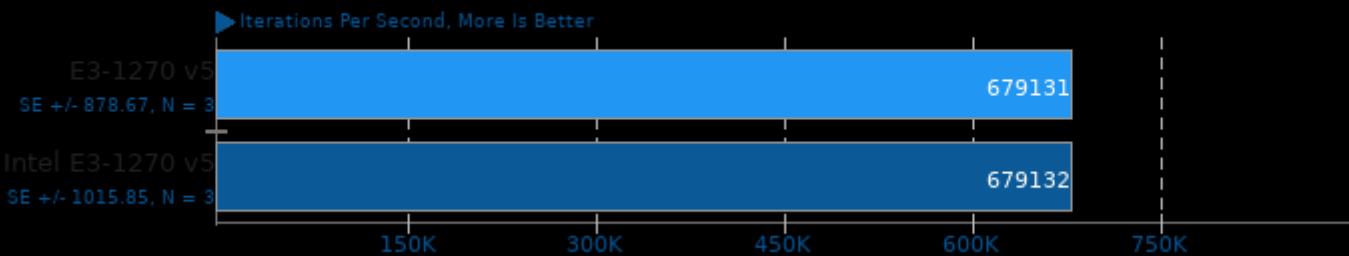
Cryptsetup

PBKDF2-sha512



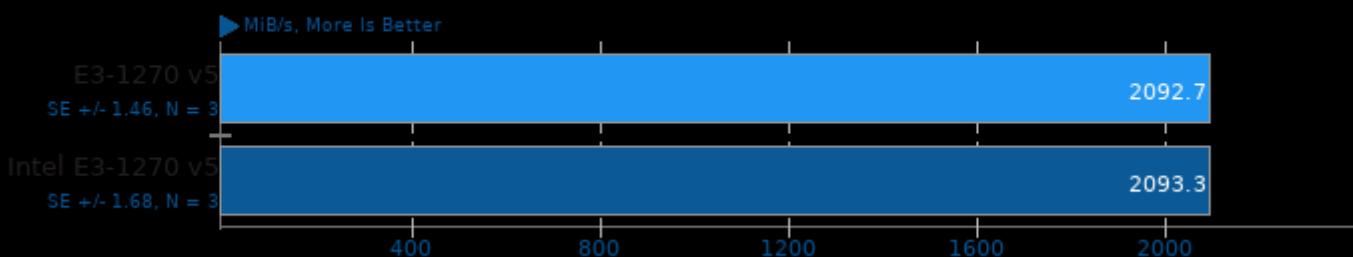
Cryptsetup

PBKDF2-whirlpool



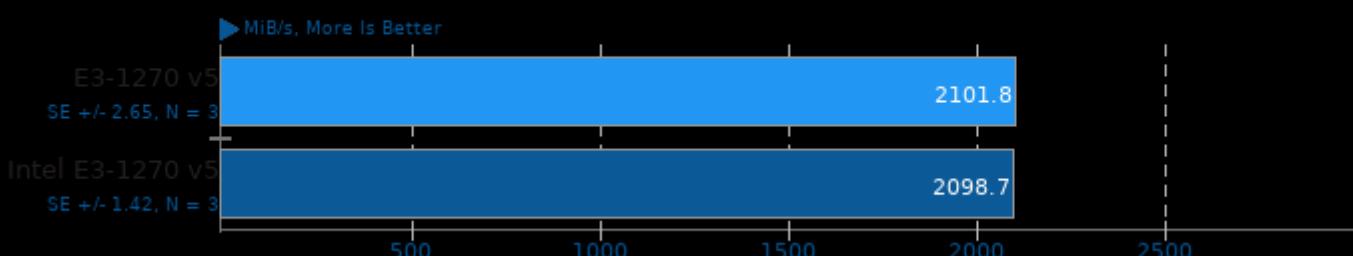
Cryptsetup

AES-XTS 256b Encryption



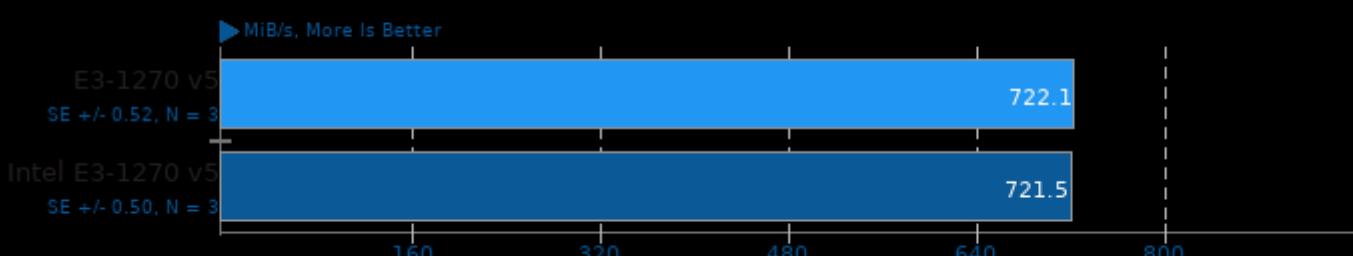
Cryptsetup

AES-XTS 256b Decryption



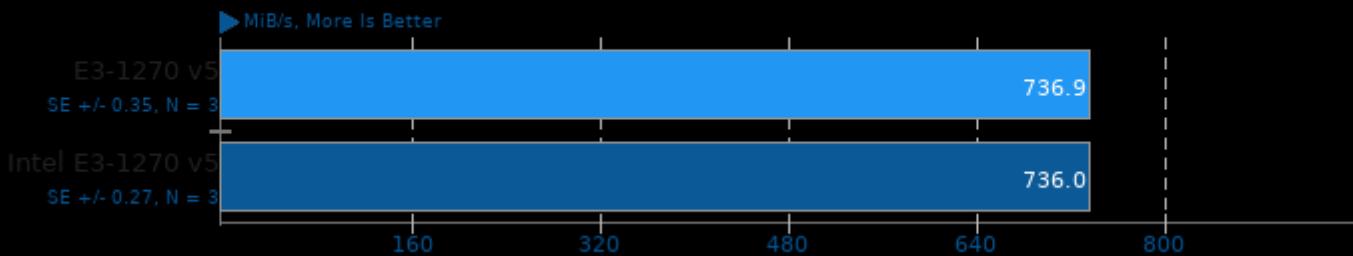
Cryptsetup

Serpent-XTS 256b Encryption



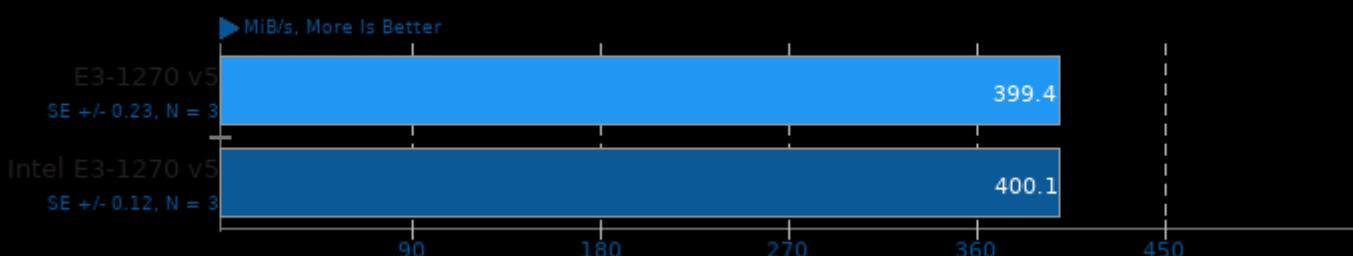
Cryptsetup

Serpent-XTS 256b Decryption



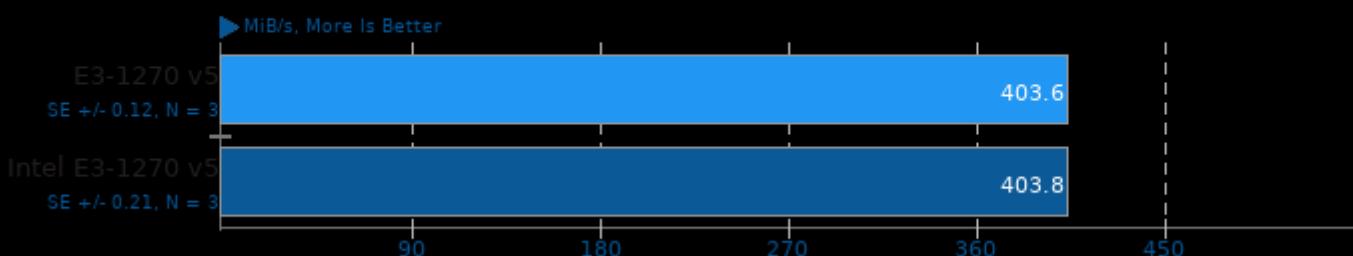
Cryptsetup

Twofish-XTS 256b Encryption



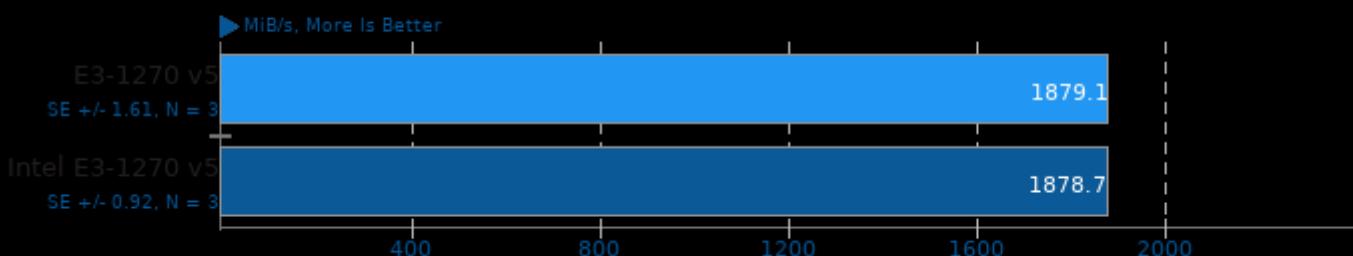
Cryptsetup

Twofish-XTS 256b Decryption



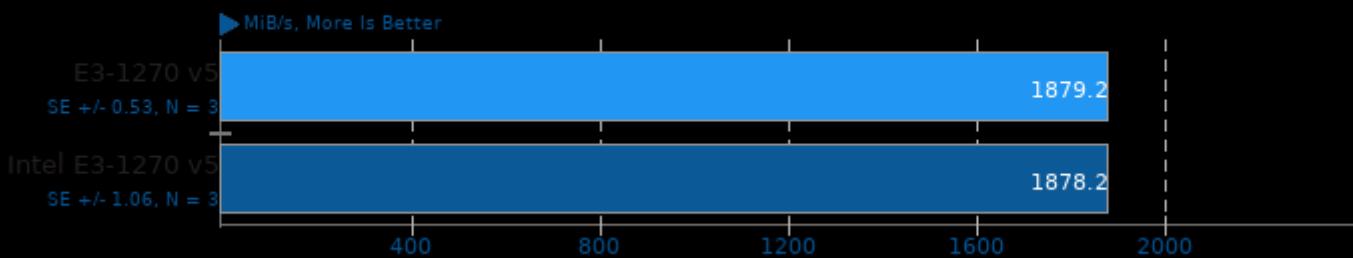
Cryptsetup

AES-XTS 512b Encryption



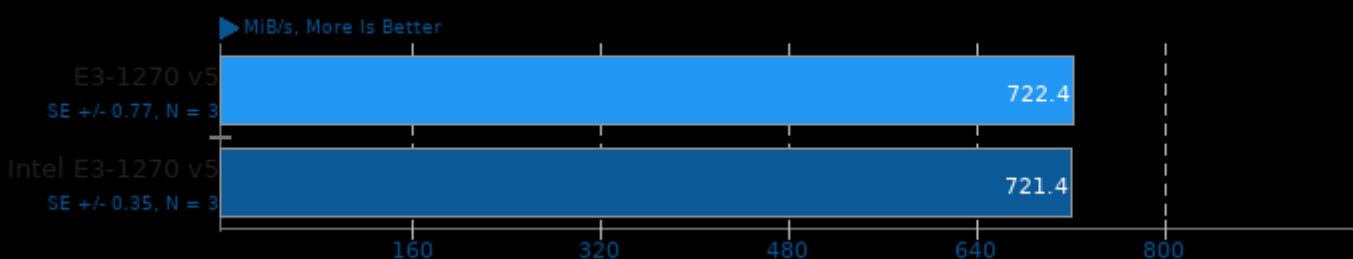
Cryptsetup

AES-XTS 512b Decryption



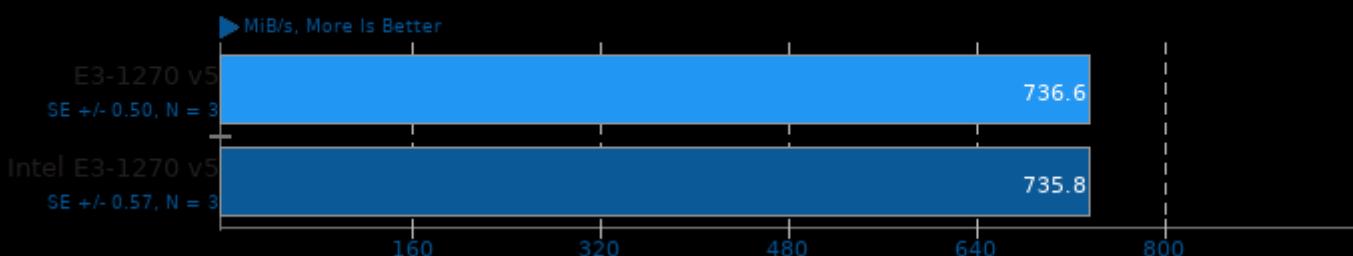
Cryptsetup

Serpent-XTS 512b Encryption



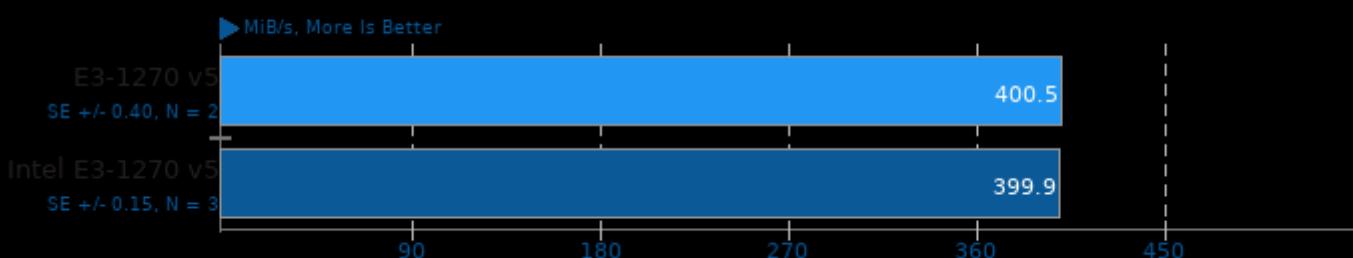
Cryptsetup

Serpent-XTS 512b Decryption



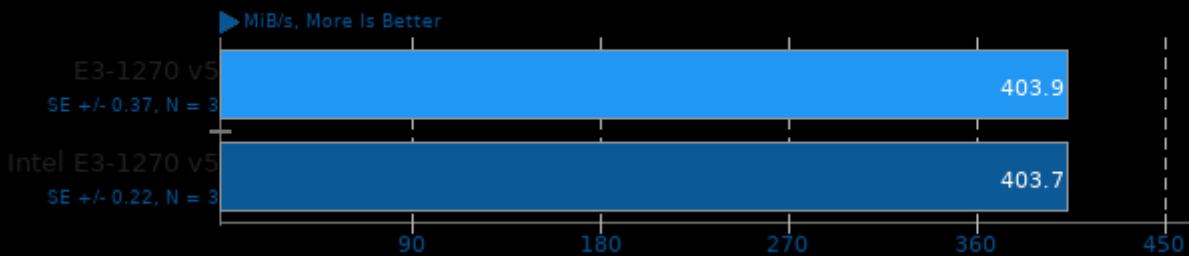
Cryptsetup

Twofish-XTS 512b Encryption

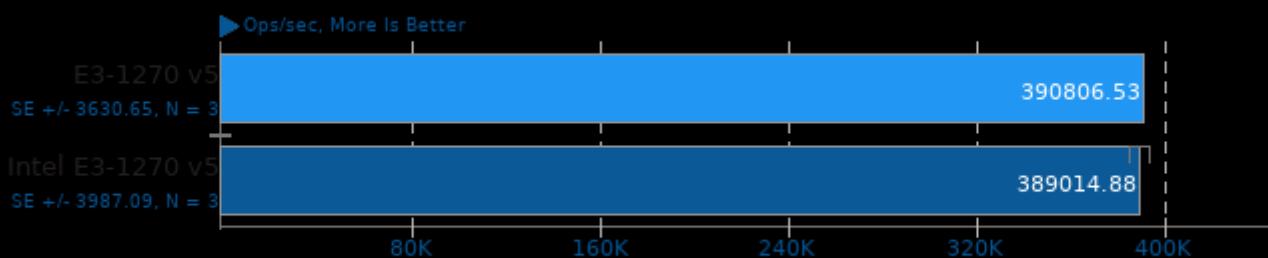


Cryptsetup

Twofish-XTS 512b Decryption



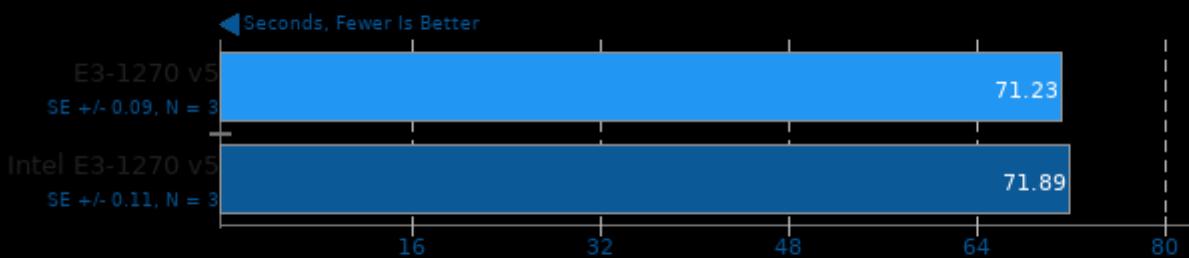
KeyDB 6.0.16



1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcres

SQLite Speedtest 3.30

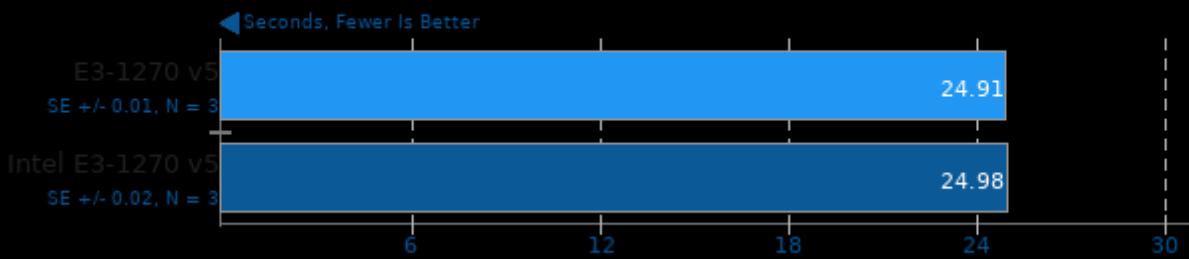
Timed Time - Size 1,000



1. (CC) gcc options: -O2 -ldl -lz -lpthread

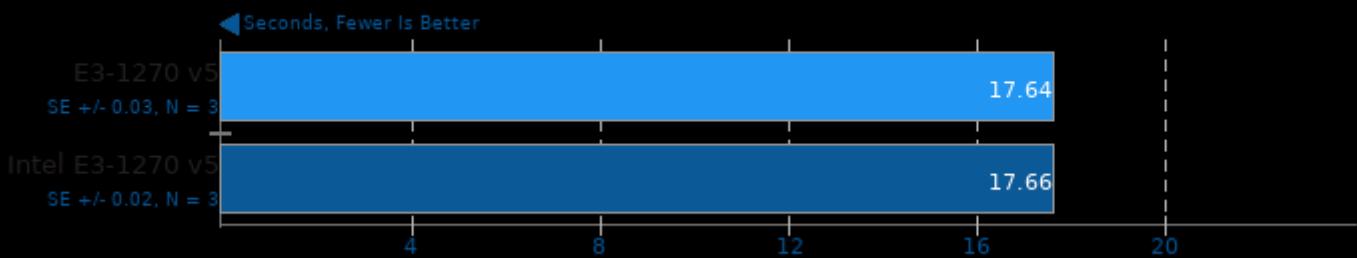
Darktable 3.2.1

Test: Boat - Acceleration: CPU-only



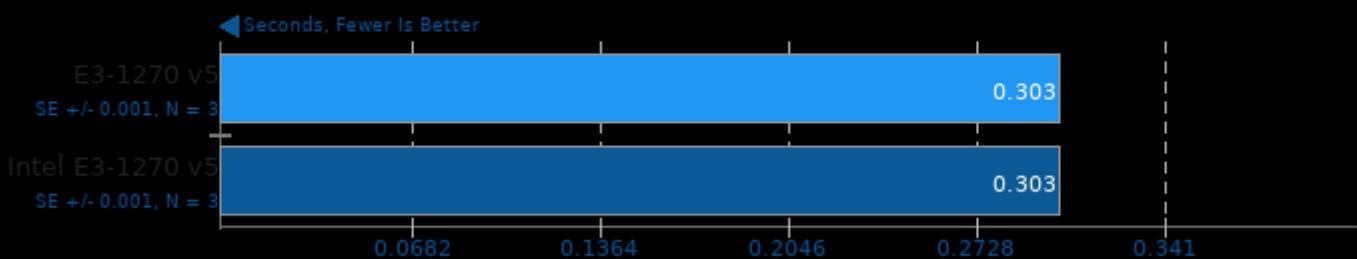
Darktable 3.2.1

Test: Masskrug - Acceleration: CPU-only



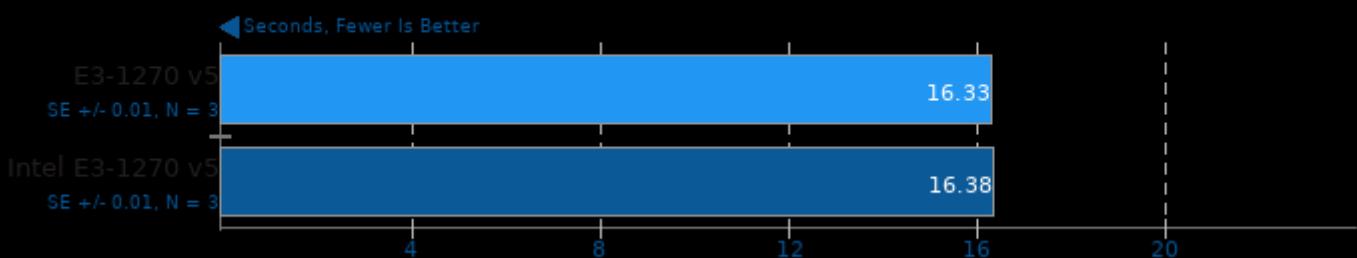
Darktable 3.2.1

Test: Server Rack - Acceleration: CPU-only



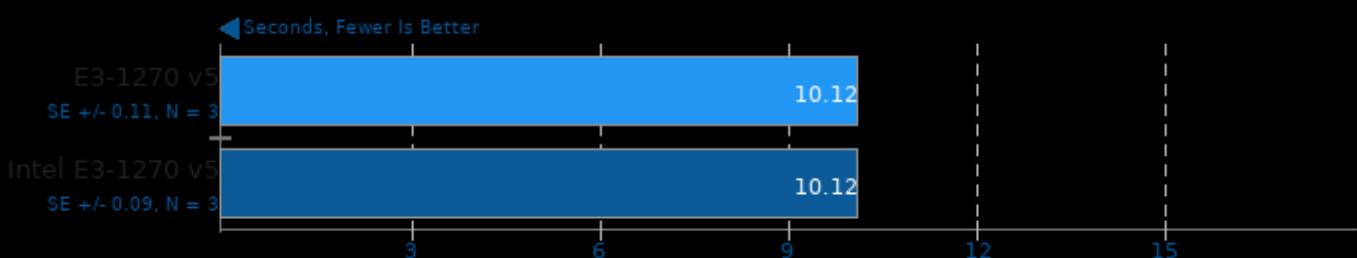
Darktable 3.2.1

Test: Server Room - Acceleration: CPU-only



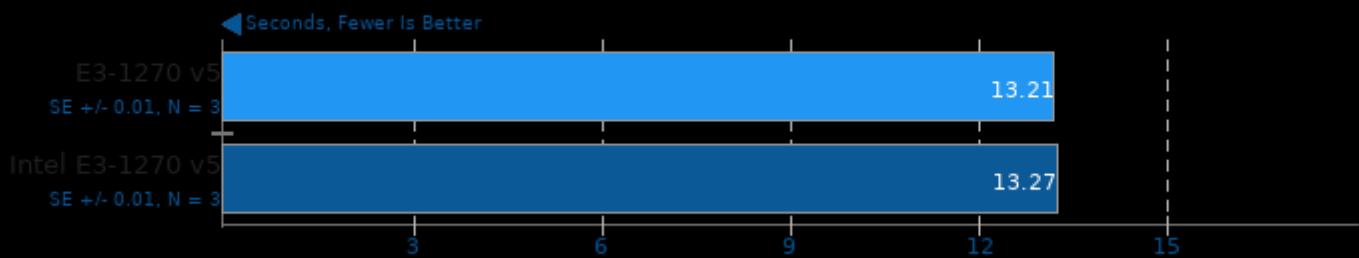
GIMP 2.10.18

Test: resize



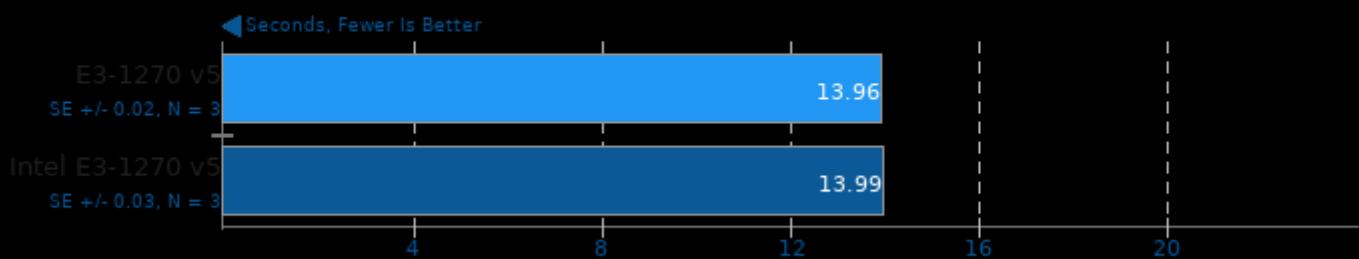
GIMP 2.10.18

Test: rotate



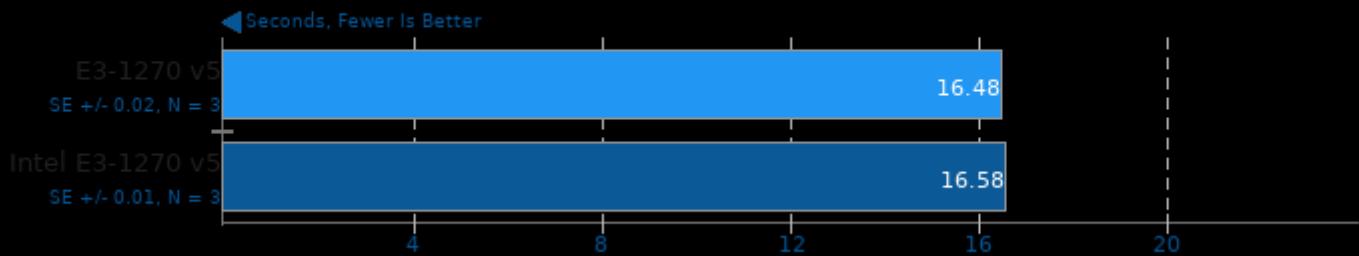
GIMP 2.10.18

Test: auto-levels



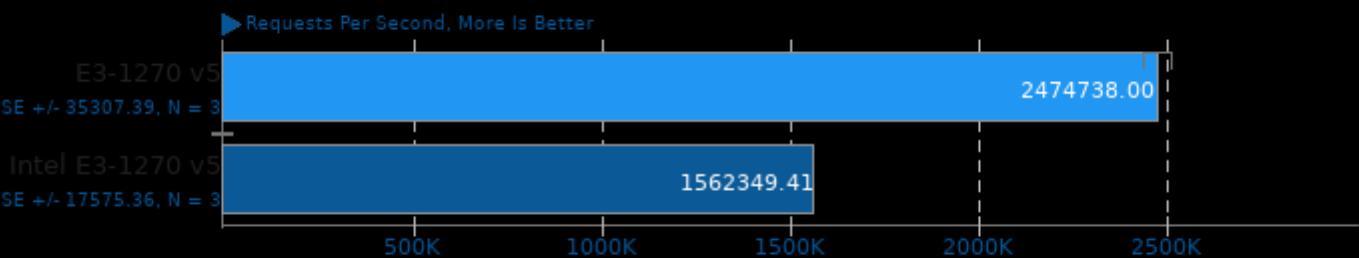
GIMP 2.10.18

Test: unsharp-mask



Redis 6.0.9

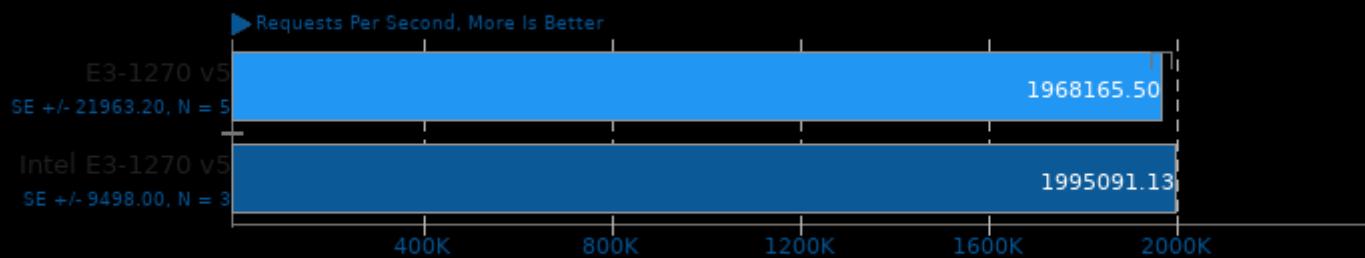
Test: LPOP



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

Redis 6.0.9

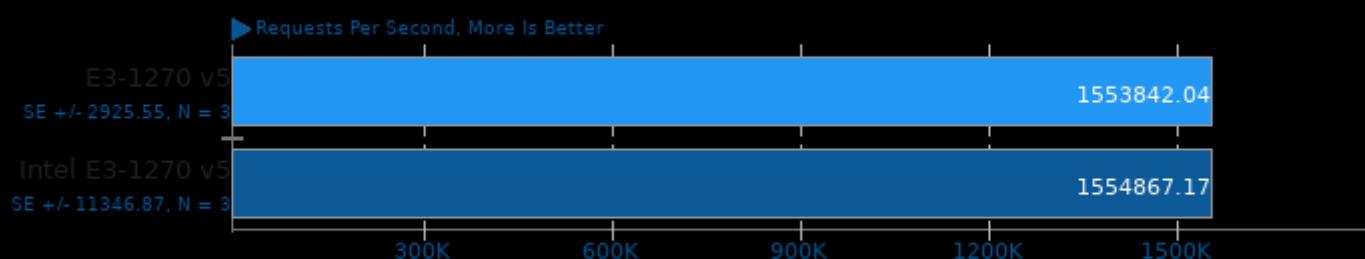
Test: SADD



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

Redis 6.0.9

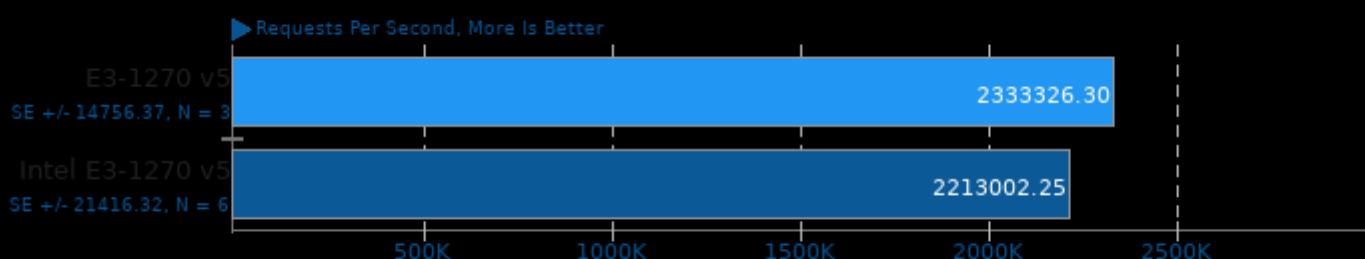
Test: LPUSH



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

Redis 6.0.9

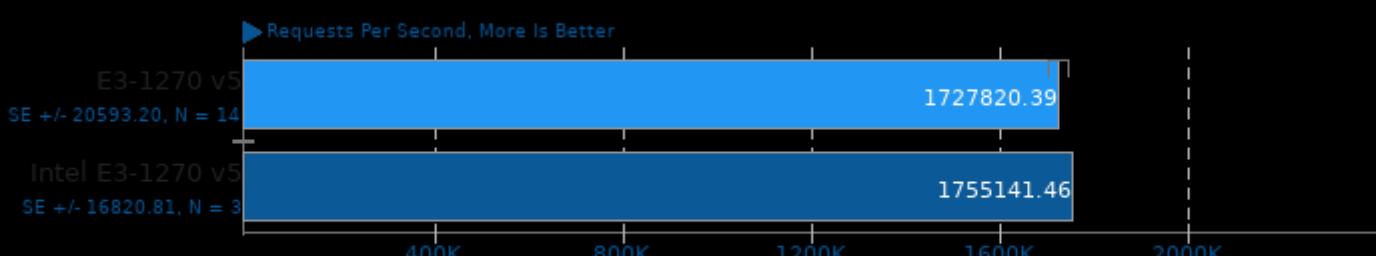
Test: GET



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

Redis 6.0.9

Test: SET

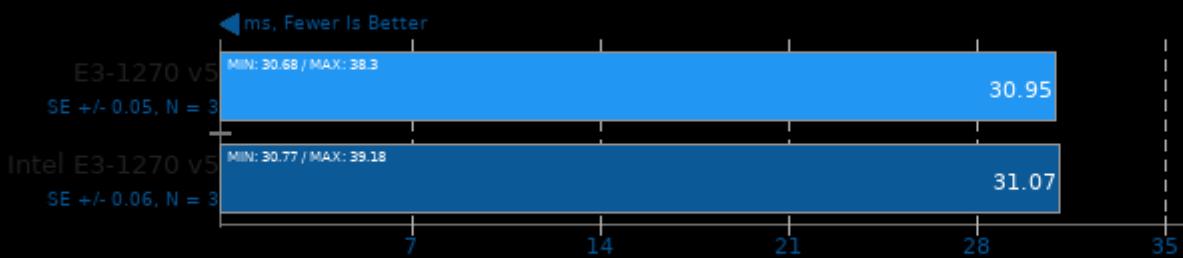


1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Xeon E3-1270 v5

NCNN 20201218

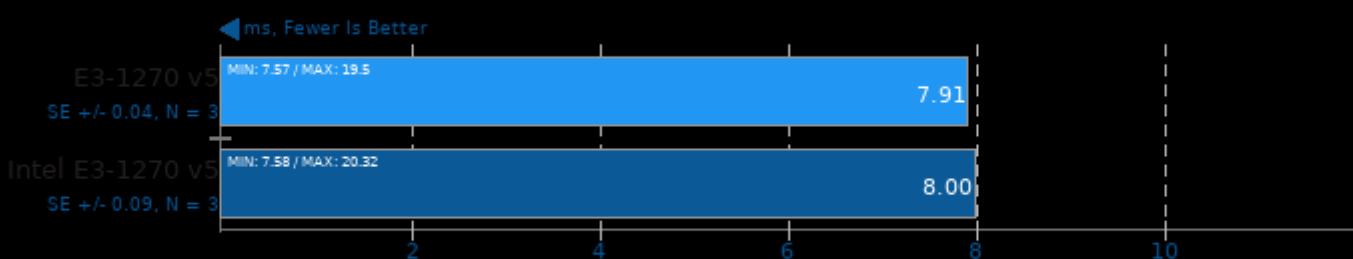
Target: CPU - Model: mobilenet



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

NCNN 20201218

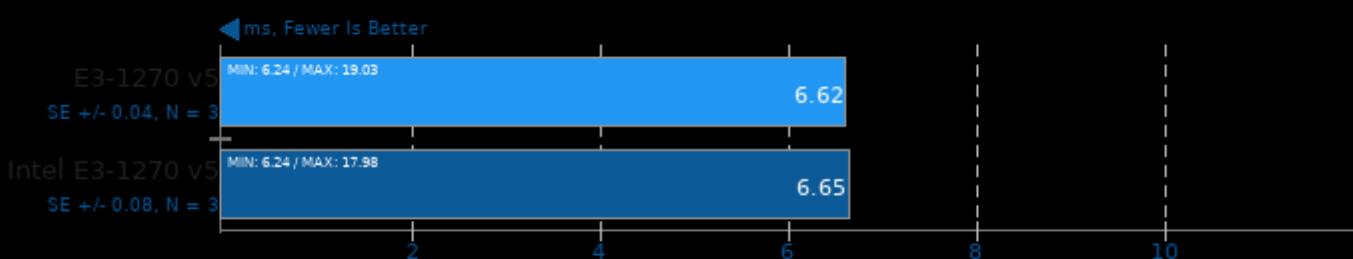
Target: CPU-v2-v2 - Model: mobilenet-v2



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

NCNN 20201218

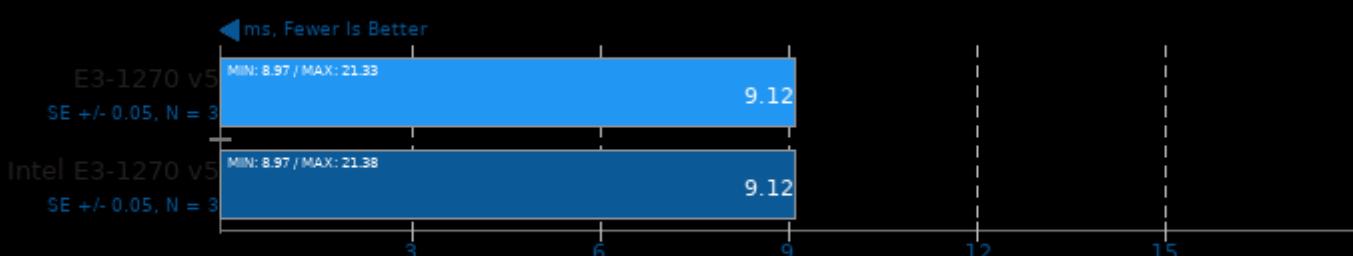
Target: CPU-v3-v3 - Model: mobilenet-v3



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

NCNN 20201218

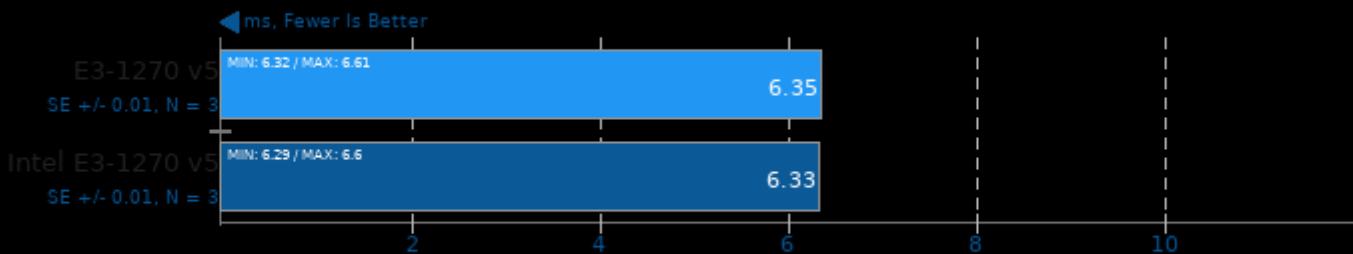
Target: CPU - Model: shufflenet-v2



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

NCNN 20201218

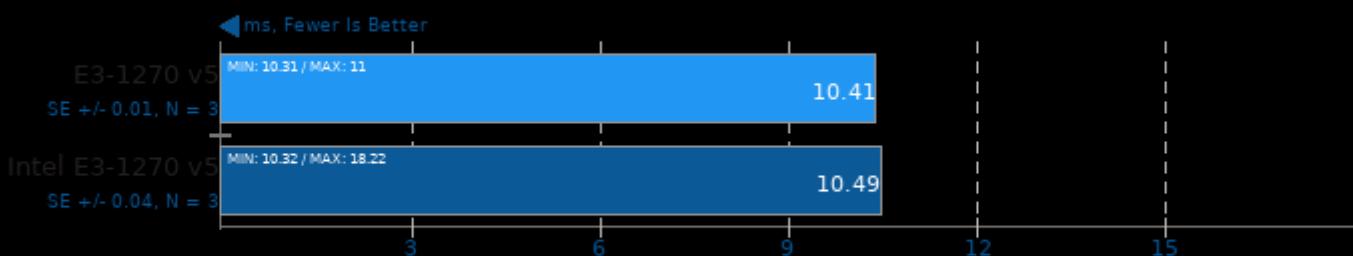
Target: CPU - Model: mnasnet



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

NCNN 20201218

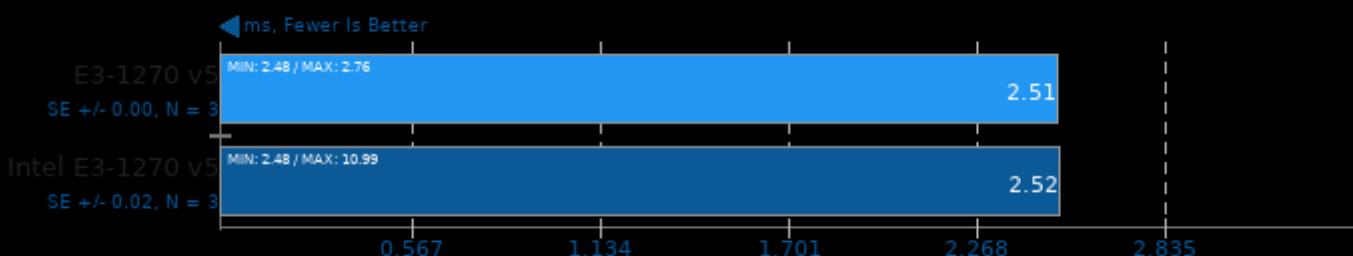
Target: CPU - Model: efficientnet-b0



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

NCNN 20201218

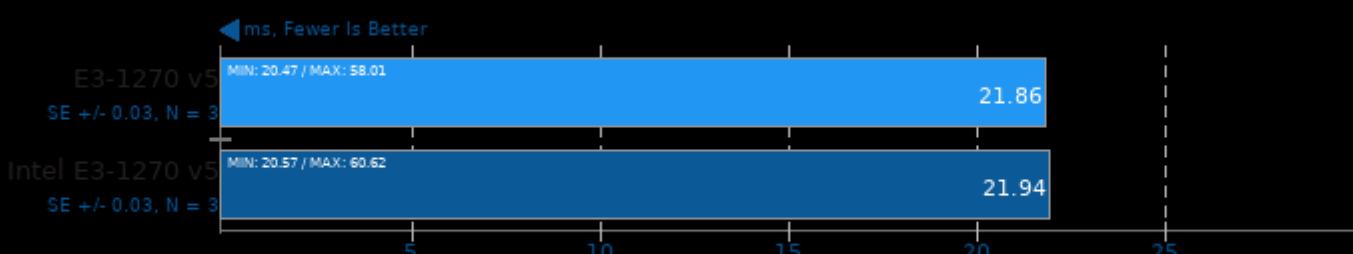
Target: CPU - Model: blazeface



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

NCNN 20201218

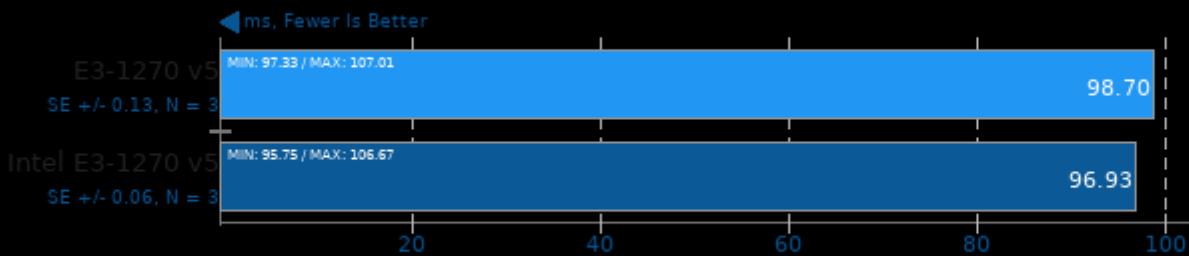
Target: CPU - Model: googlenet



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

NCNN 20201218

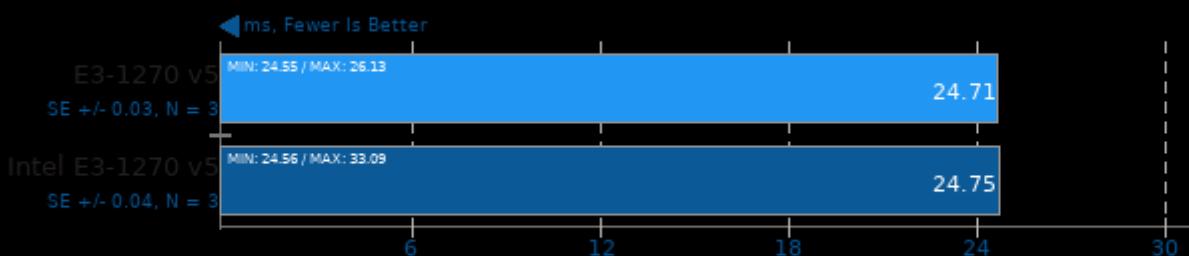
Target: CPU - Model: vgg16



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

NCNN 20201218

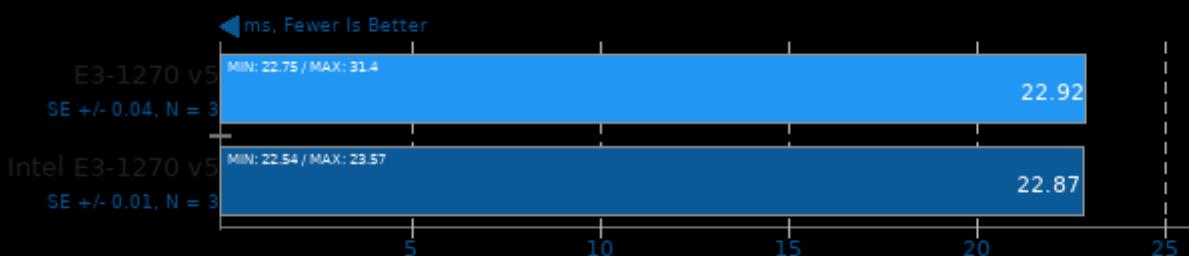
Target: CPU - Model: resnet18



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

NCNN 20201218

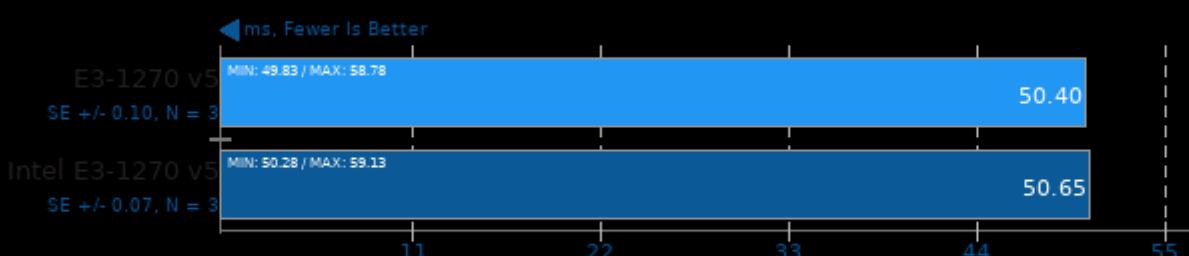
Target: CPU - Model: alexnet



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

NCNN 20201218

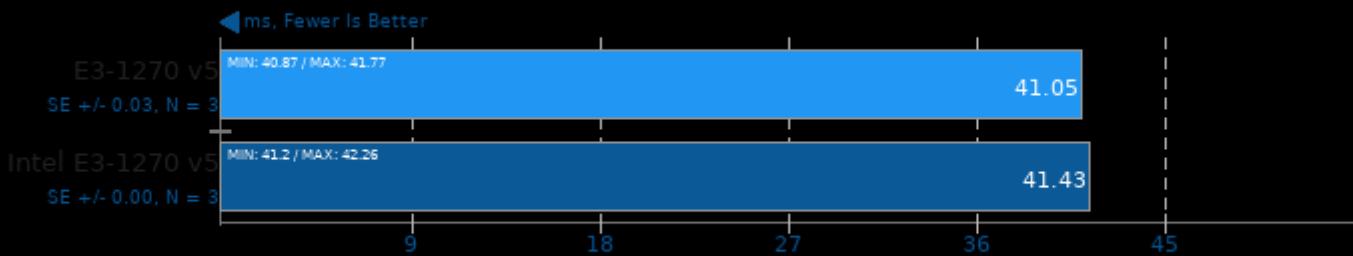
Target: CPU - Model: resnet50



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

NCNN 20201218

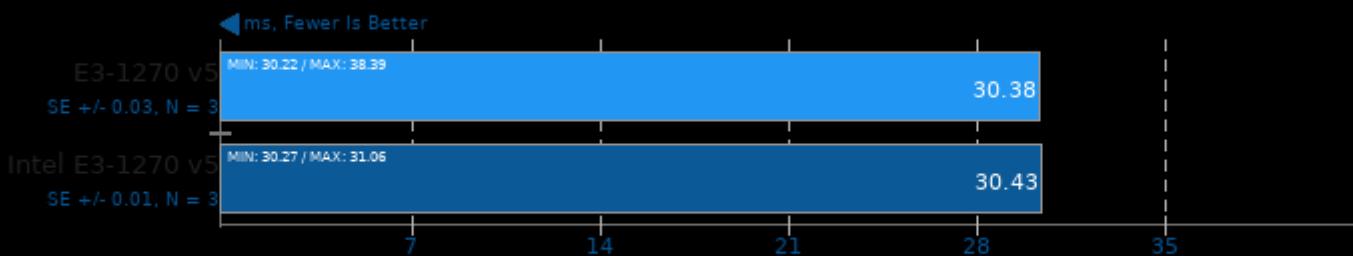
Target: CPU - Model: yolov4-tiny



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

NCNN 20201218

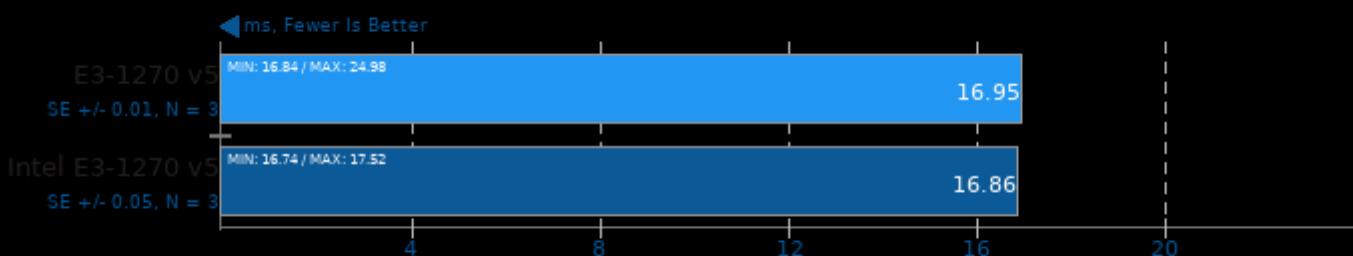
Target: CPU - Model: squeezeenet_ssd



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

NCNN 20201218

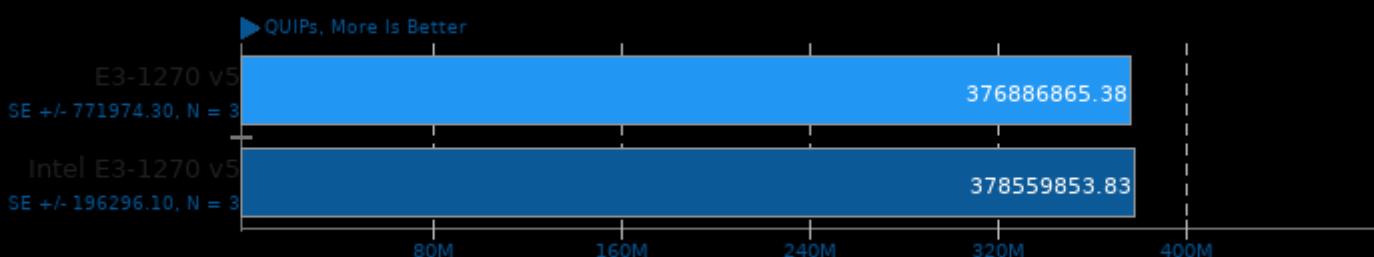
Target: CPU - Model: regnety_400m



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

Hierarchical INTegration 1.0

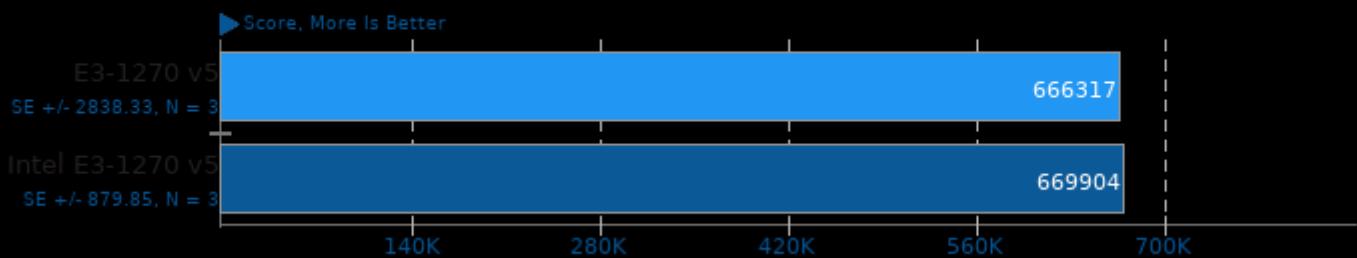
Test: FLOAT



1. (CC) gcc options: -O3 -march=native -lm

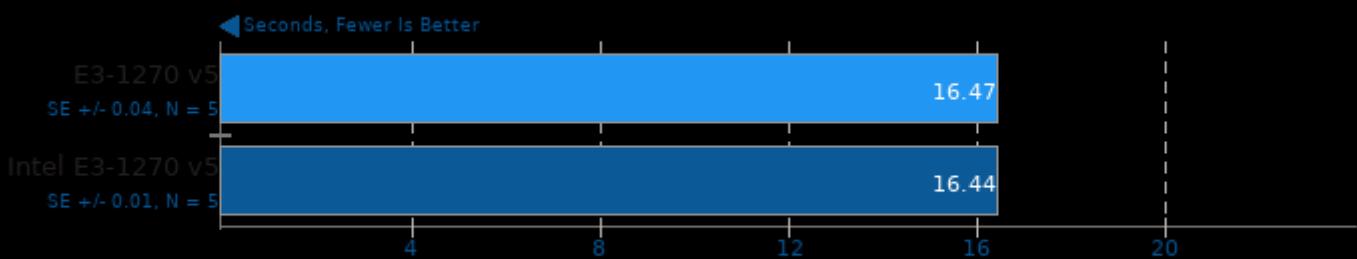
PHPBench 0.8.1

PHP Benchmark Suite



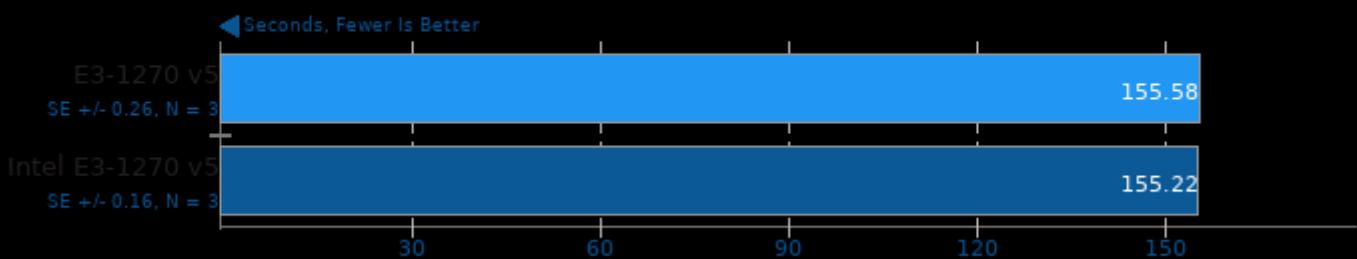
WavPack Audio Encoding 5.3

WAV To WavPack



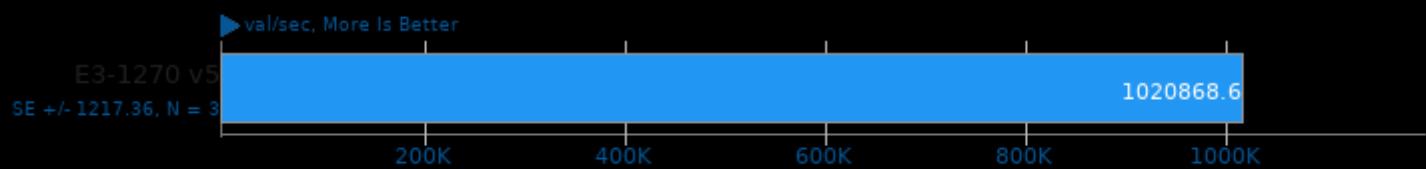
1. (CXX) g++ options: -rdynamic

Scikit-Learn 0.22.1



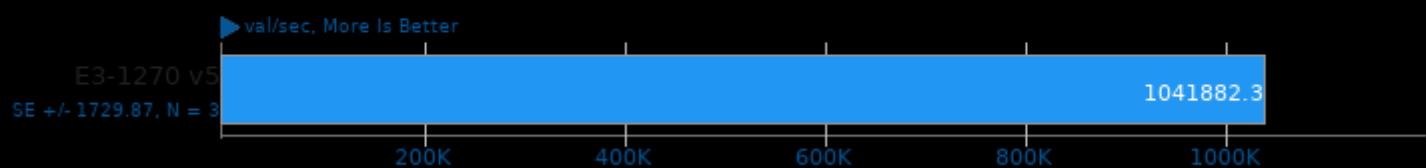
InfluxDB 1.8.2

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



InfluxDB 1.8.2

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



InfluxDB 1.8.2

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

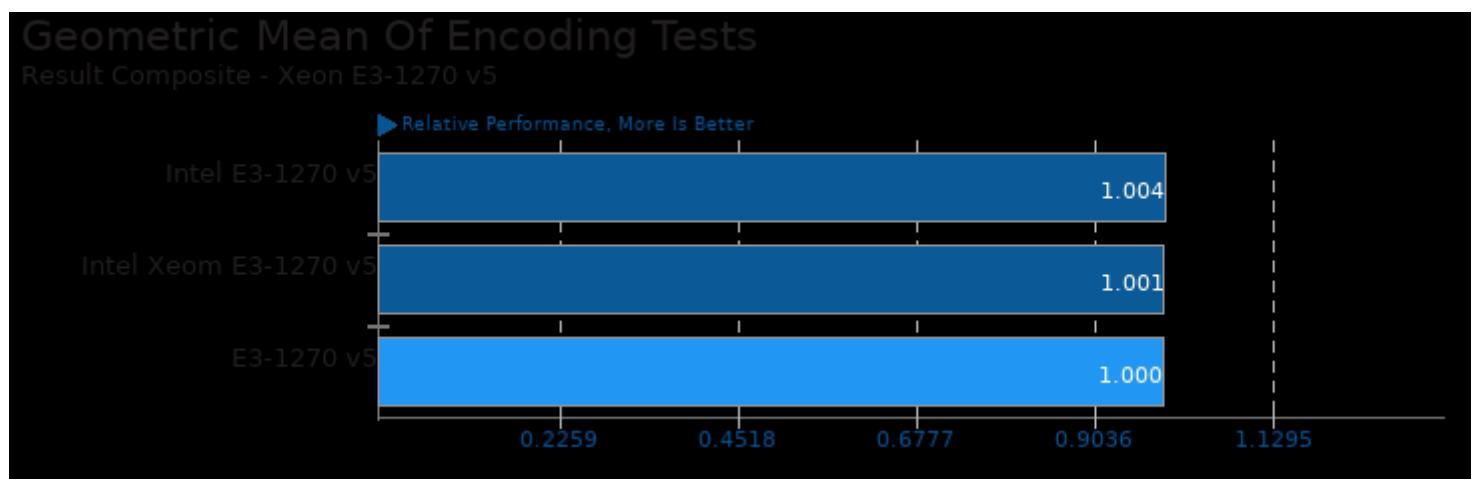


Xeon E3-1270 v5

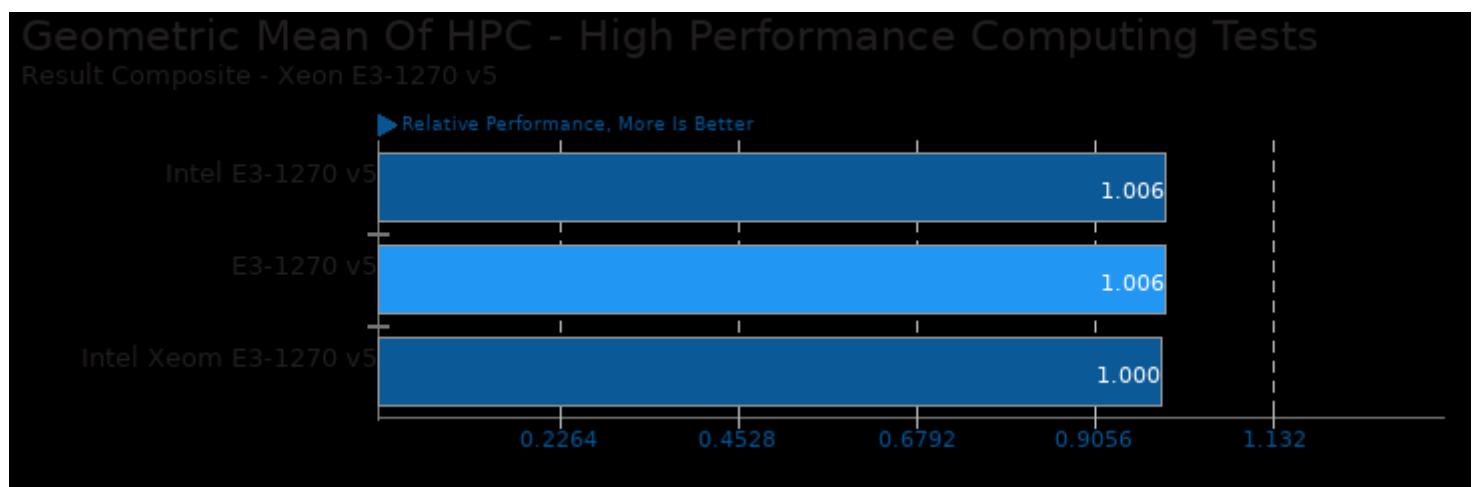
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/vpxenc, pts/rav1e, pts/encode-mp3, pts/encode-ape, pts/encode-wavpack, pts/encode-opus, pts/libraw, pts/webp, system/gimp, system/darktable and pts/espeak



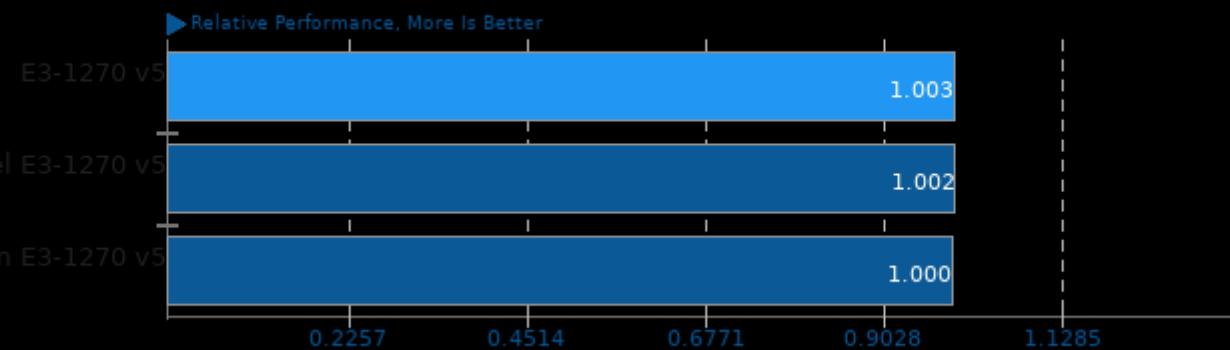
Geometric mean based upon tests: pts/encode-mp3, pts/encode-ape, pts/encode-wavpack, pts/encode-opus, pts/vpxenc and pts/rav1e



Geometric mean based upon tests: pts/lulesh, pts/incompact3d, pts/himeno, pts/hmmer, pts/ncnn, pts/numpy and pts/scikit-learn

Geometric Mean Of Imaging Tests

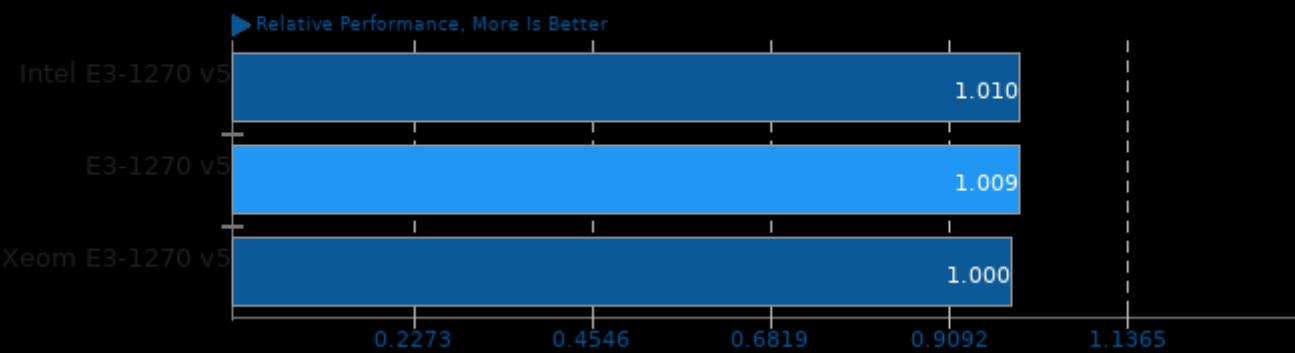
Result Composite - Xeon E3-1270 v5



Geometric mean based upon tests: pts/libraw, pts/webp, system/gimp and system/darktable

Geometric Mean Of Molecular Dynamics Tests

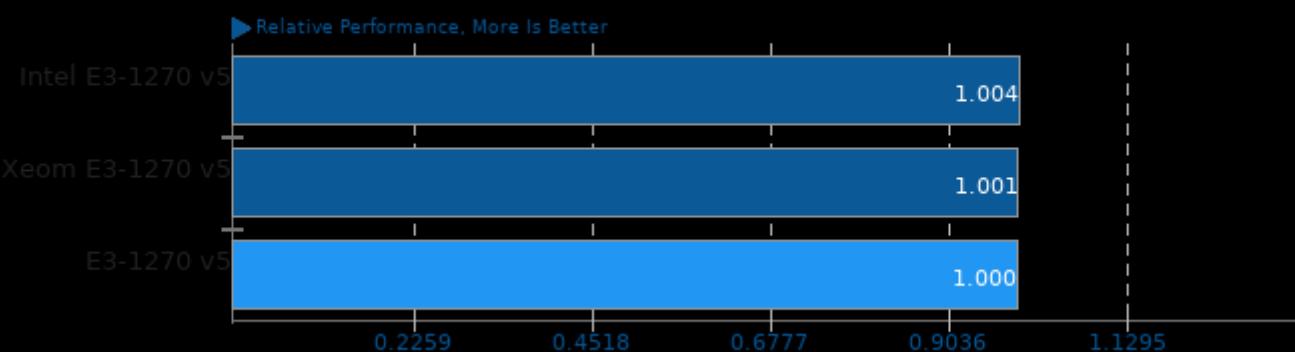
Result Composite - Xeon E3-1270 v5



Geometric mean based upon tests: pts/lulesh and pts/incompact3d

Geometric Mean Of Multi-Core Tests

Result Composite - Xeon E3-1270 v5

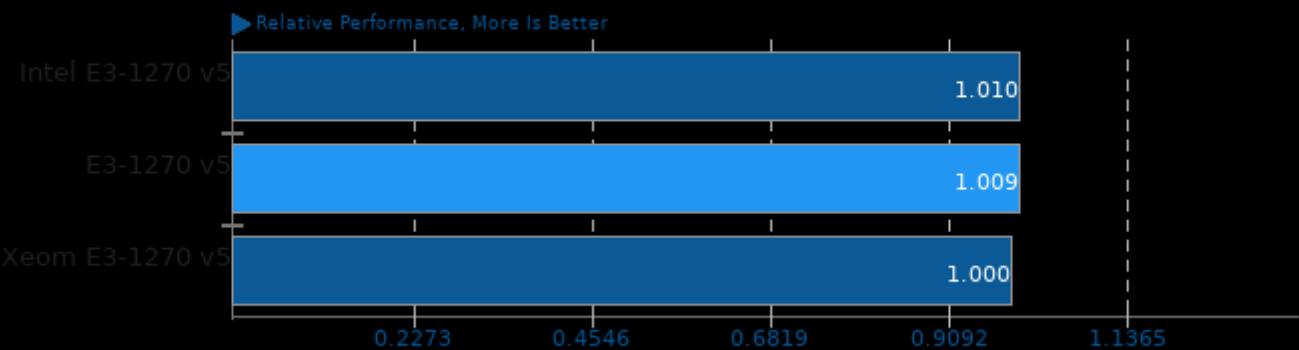


Geometric mean based upon tests: pts/coremark, pts/vpxenc, pts/rav1e, pts/build-eigen and pts/build2

Xeon E3-1270 v5

Geometric Mean Of OpenMPI Tests

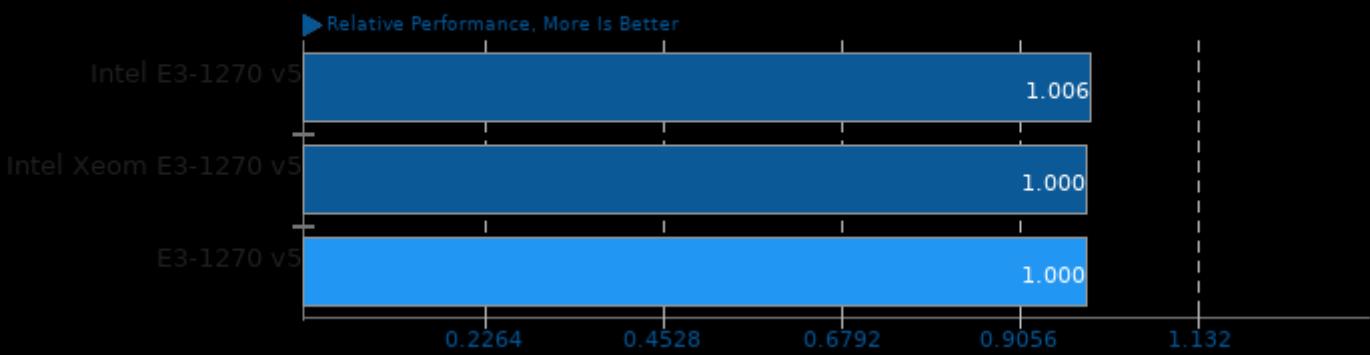
Result Composite - Xeon E3-1270 v5



Geometric mean based upon tests: pts/incompact3d and pts/lulesh

Geometric Mean Of Programmer / Developer System Benchmarks Tests

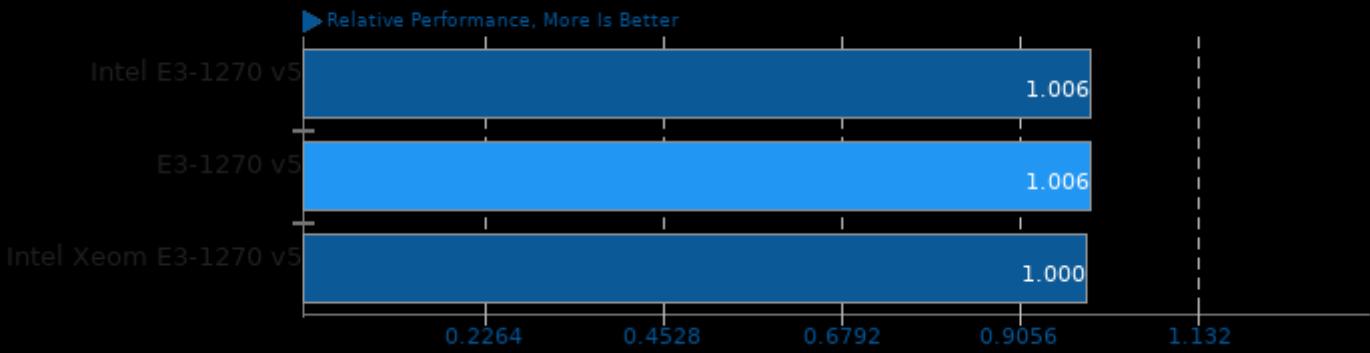
Result Composite - Xeon E3-1270 v5



Geometric mean based upon tests: pts/simdjson, pts/sqlite-speedtest, pts/node-web-tooling, system/cryptsetup, pts/build-eigen and pts/build2

Geometric Mean Of Scientific Computing Tests

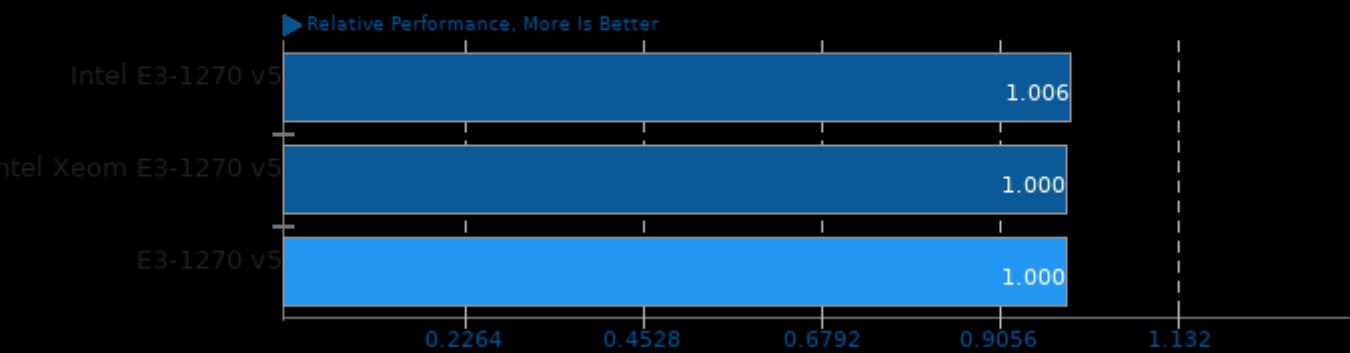
Result Composite - Xeon E3-1270 v5



Geometric mean based upon tests: pts/lulesh, pts/incompact3d, pts/himeno and pts/hmmer

Geometric Mean Of Server Tests

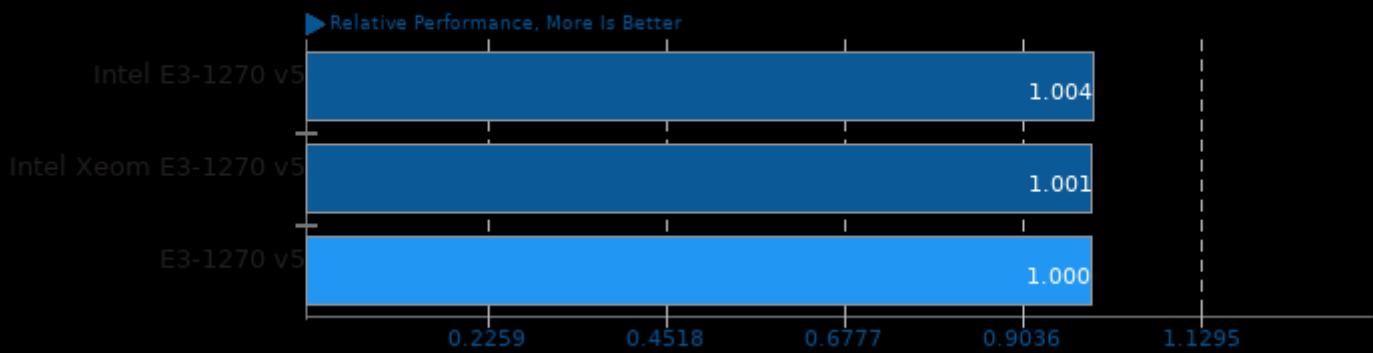
Result Composite - Xeon E3-1270 v5



Geometric mean based upon tests: pts/redis, pts/keydb, pts/phpbench, pts/simdjson, pts/node-web-tooling, pts/sqlite-speedtest and pts/influxdb

Geometric Mean Of Video Encoding Tests

Result Composite - Xeon E3-1270 v5



Geometric mean based upon tests: pts/vpxenc and pts/rav1e

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