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Ubuntu Comparison AMD EPYC 7763

AMD EPYC 7763 64-Core testing with a Supermicro H12SSL-i v1.01 (2.0 BIOS) and ASPEED on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

Ubuntu 20.04 LTS

Processor: AMD EPYC 7763 64-Core @ 2.45GHz (64 Cores / 128 Threads), Motherboard: Supermicro H12SSL-i v1.01 (2.0 BIOS), Chipset: AMD Starship/Matisse, Memory: 126GB, Disk: 3841GB Micron_9300_MTFDHAL3T8TDP, Graphics: ASPEED, Network: 2 x Broadcom NetXtreme BCM5720 2-port PCIe

OS: Ubuntu 20.04, Kernel: 5.4.0-72-generic (x86_64), Desktop: GNOME Shell 3.36.7, Display Server: X Server 1.20.9, Compiler: GCC 11.0.1 20210413, File-System: ext4, Screen Resolution: 1024x768

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --disable-multilib --enable-checking=release

Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0xa001119

Python Notes: Python 3.8.5

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 retrpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbd: Not affected + tsx_async_abort: Not affected

Ubuntu 20.04 LTS

WireGuard + Linux Networking Stack Stress Test (sec)	258.866
Standard Deviation	0.4%
Parboil - OpenMP LBM (sec)	21.798811
Standard Deviation	0.8%
Parboil - OpenMP CUTCP (sec)	0.947561
Standard Deviation	1.1%
Parboil - OpenMP Stencil (sec)	2.272556
Standard Deviation	2.9%
Parboil - O.M.G (sec)	553.544698
Standard Deviation	0.1%
Rodinia - OpenMP LavaMD (sec)	42.446
Standard Deviation	0.1%
Rodinia - OpenMP HotSpot3D (sec)	91.595
Standard Deviation	6.4%
Rodinia - OpenMP Leukocyte (sec)	44.367
Standard Deviation	0.4%
Rodinia - OpenMP CFD Solver (sec)	6.378
Standard Deviation	1.6%
Rodinia - O.S (sec)	5.789
Standard Deviation	0.2%
NAMD - ATPase Simulation - 327,506 Atoms (days/ns)	0.38053
Standard Deviation	0%
Xcompact3d Incompact3d - i.i.1.C.P.D (sec)	23.0172501
Standard Deviation	0.4%
OpenFOAM - Motorbike 60M (sec)	208.15
Standard Deviation	0.1%
GNU GMP GMPbench - Total Time (GMPbench Score)	5104
LZ4 Compression - 3 - Compression Speed (MB/s)	54.09
Standard Deviation	2.9%
LZ4 Compression - 3 - D.S (MB/s)	13717
Standard Deviation	0.7%
LZ4 Compression - 9 - Compression Speed (MB/s)	52.25
Standard Deviation	0.5%
LZ4 Compression - 9 - D.S (MB/s)	13792
Standard Deviation	0.6%
Zstd Compression - 19 - Compression Speed (MB/s)	87.0
Standard Deviation	2.7%
Zstd Compression - 19 - D.S (MB/s)	3516
Standard Deviation	0.4%
Zstd Compression - 8, Long Mode - Compression Speed (MB/s)	731.0
Standard Deviation	0.7%
Zstd Compression - 8, Long Mode - D.S (MB/s)	4085
Standard Deviation	2.7%
Zstd Compression - 19, Long Mode - Compression Speed (MB/s)	48.0
Standard Deviation	1.2%

Zstd Compression - 19, Long Mode - D.S (MB/s)	3509
Standard Deviation	2.2%
LuaRadio - F.B.t.B.F.F (MiB/s)	1139
Standard Deviation	0.7%
LuaRadio - F.D.F (MiB/s)	346.7
Standard Deviation	0.1%
LuaRadio - Hilbert Transform (MiB/s)	93.9
Standard Deviation	0.1%
LuaRadio - Complex Phase (MiB/s)	598.9
Standard Deviation	0.1%
GNU Radio - F.B.t.B.F.F (MiB/s)	520.1
Standard Deviation	4.5%
GNU Radio - S.S.C (MiB/s)	3146
Standard Deviation	2.5%
GNU Radio - FIR Filter (MiB/s)	624.3
Standard Deviation	5.3%
GNU Radio - IIR Filter (MiB/s)	604.0
Standard Deviation	0.6%
GNU Radio - F.D.F (MiB/s)	761.2
Standard Deviation	0.3%
GNU Radio - Hilbert Transform (MiB/s)	376.6
Standard Deviation	0.3%
LuxCoreRender - DLSC - CPU (M samples/sec)	9.41
Standard Deviation	2.1%
LuxCoreRender - Danish Mood - CPU (M samples/sec)	7.40
Standard Deviation	1%
LuxCoreRender - Orange Juice - CPU (M samples/sec)	13.47
Standard Deviation	1.3%
LuxCoreRender - LuxCore Benchmark - CPU (M samples/sec)	7.95
Standard Deviation	0.7%
LuxCoreRender - R.C.a.P - CPU (M samples/sec)	17.96
Standard Deviation	2.1%
AOM AV1 - Speed 4 Two-Pass - Bosphorus 4K (FPS)	4.77
Standard Deviation	1.3%
AOM AV1 - Speed 6 Realtime - Bosphorus 4K (FPS)	14.96
Standard Deviation	6.3%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 4K (FPS)	8.91
Standard Deviation	1.3%
AOM AV1 - Speed 8 Realtime - Bosphorus 4K (FPS)	30.27
Standard Deviation	0.5%
AOM AV1 - Speed 9 Realtime - Bosphorus 4K (FPS)	34.42
Standard Deviation	2.4%
SVT-AV1 - Enc Mode 4 - 1080p (FPS)	12.061
Standard Deviation	0.3%
SVT-AV1 - Enc Mode 8 - 1080p (FPS)	112.653
Standard Deviation	1.5%
SVT-HEVC - 1 - Bosphorus 1080p (FPS)	37.77
Standard Deviation	0.1%
SVT-HEVC - 7 - Bosphorus 1080p (FPS)	326.63
Standard Deviation	0.6%
SVT-HEVC - 10 - Bosphorus 1080p (FPS)	572.54
Standard Deviation	0.6%
SVT-VP9 - VMAF Optimized - Bosphorus 1080p (FPS)	453.53

SVT-VP9 - P.S.O - Bosphorus 1080p (FPS)	454.05	Standard Deviation 1.3%
SVT-VP9 - V.Q.O - Bosphorus 1080p (FPS)	347.46	Standard Deviation 0.8%
libavif avifenc - 2 (sec)	26.943	Standard Deviation 1.1%
libavif avifenc - 6 (sec)	10.128	Standard Deviation 0.1%
libavif avifenc - 10 (sec)	3.500	Standard Deviation 0.2%
libavif avifenc - 6, Lossless (sec)	26.781	Standard Deviation 0.3%
libavif avifenc - 10, Lossless (sec)	5.983	Standard Deviation 0.2%
Timed Linux Kernel Compilation - Time To Compile (sec)	28.017	Standard Deviation 0.7%
Timed Wasmer Compilation - Time To Compile (sec)	61.228	Standard Deviation 4.5%
Ngspice - C2670 (sec)	138.174	Standard Deviation 0.2%
Ngspice - C7552 (sec)	107.351	Standard Deviation 1.2%
SecureMark - SecureMark-TLS (marks)	245843	Standard Deviation 1.6%
Liquid-DSP - 1 - 256 - 57 (samples/s)	57582250	Standard Deviation 0.6%
Liquid-DSP - 32 - 256 - 57 (samples/s)	1616166667	Standard Deviation 4.2%
Liquid-DSP - 64 - 256 - 57 (samples/s)	2810566667	Standard Deviation 1.3%
Liquid-DSP - 128 - 256 - 57 (samples/s)	3068166667	Standard Deviation 1%
FinanceBench - Repo OpenMP (ms)	34558	Standard Deviation 0%
FinanceBench - Bonds OpenMP (ms)	51400	Standard Deviation 1.9%
ASKAP - tConvolve OpenMP - Gridding (Million Grid Points/sec)	8466	Standard Deviation 0.1%
ASKAP - tConvolve OpenMP - Degridding (Million Grid Points/sec)	8050	Standard Deviation 5.2%
Cryptsetup - PBKDF2-sha512 (Iterations/sec)	1821499	Standard Deviation 0.8%
Cryptsetup - PBKDF2-whirlpool (Iterations/sec)	668739	Standard Deviation 0.1%
Cryptsetup - A.X.2.E (MiB/s)	1988	Standard Deviation 0.3%
Cryptsetup - A.X.2.D (MiB/s)	1990	Standard Deviation 0.6%
Cryptsetup - S.X.2.E (MiB/s)	747.4	Standard Deviation 0.1%
Cryptsetup - S.X.2.D (MiB/s)	739.4	Standard Deviation 0.6%
		Standard Deviation 0%

Cryptsetup - T.X.2.E (MiB/s)	391.3
Standard Deviation	0.6%
Cryptsetup - T.X.2.D (MiB/s)	398.0
Standard Deviation	0%
Cryptsetup - A.X.5.E (MiB/s)	1706
Standard Deviation	0.1%
Cryptsetup - A.X.5.D (MiB/s)	1705
Standard Deviation	0.1%
Cryptsetup - S.X.5.E (MiB/s)	748.4
Standard Deviation	0.1%
Cryptsetup - S.X.5.D (MiB/s)	736.3
Standard Deviation	0.5%
Cryptsetup - T.X.5.E (MiB/s)	392.3
Standard Deviation	0.1%
Cryptsetup - T.X.5.D (MiB/s)	397.5
Standard Deviation	0.1%
TensorFlow Lite - SqueezeNet (us)	53664
Standard Deviation	0.3%
TensorFlow Lite - Inception V4 (us)	707684
Standard Deviation	2.9%
TensorFlow Lite - NASNet Mobile (us)	79439
Standard Deviation	1.1%
TensorFlow Lite - Mobilenet Float (us)	32545
Standard Deviation	1%
TensorFlow Lite - Mobilenet Quant (us)	33436
Standard Deviation	2.9%
TensorFlow Lite - I.R.V (us)	663293
Standard Deviation	3%
PostgreSQL pgbench - 100 - 100 - Read Only (TPS)	1124891
Standard Deviation	0.2%
PostgreSQL pgbench - 100 - 100 - Read Only - Average Latency	0.089
Standard Deviation	0%
PostgreSQL pgbench - 100 - 250 - Read Only (TPS)	1128645
Standard Deviation	2.9%
PostgreSQL pgbench - 100 - 250 - Read Only - Average Latency	0.222
Standard Deviation	3.1%
PostgreSQL pgbench - 100 - 100 - Read Write (TPS)	63015
Standard Deviation	2.9%
PostgreSQL pgbench - 100 - 100 - Read Write - Average Latency	1.591
Standard Deviation	2.8%
PostgreSQL pgbench - 100 - 250 - Read Write (TPS)	56125
Standard Deviation	2.4%
PostgreSQL pgbench - 100 - 250 - Read Write - Average Latency	4.466
Standard Deviation	2.3%
ASTC Encoder - Medium (sec)	4.8684
Standard Deviation	0.2%
ASTC Encoder - Thorough (sec)	7.8213
Standard Deviation	0.1%
ASTC Encoder - Exhaustive (sec)	19.8033
Standard Deviation	0.1%
GEGL - Crop (sec)	9.430
Standard Deviation	1.3%
GEGL - Scale (sec)	7.102

Standard Deviation	0.7%
GEGL - Cartoon (sec)	99.397
Standard Deviation	0%
GEGL - Reflect (sec)	33.621
Standard Deviation	0.1%
GEGL - Antialias (sec)	43.487
Standard Deviation	0.1%
GEGL - Tile Glass (sec)	34.596
Standard Deviation	0.2%
GEGL - Wavelet Blur (sec)	69.768
Standard Deviation	0.3%
GEGL - Color Enhance (sec)	61.598
Standard Deviation	0.1%
GEGL - Rotate 90 Degrees (sec)	42.531
Standard Deviation	0.1%
Hugin - P.P.A.S.T (sec)	49.364
Standard Deviation	1.1%
OCRMyPDF - P.6.P.P.D (sec)	15.697
Standard Deviation	1.8%
GNU Octave Benchmark (sec)	6.630
Standard Deviation	0.6%
RawTherapee - T.B.T (sec)	52.991
Standard Deviation	0.3%
librsvg - SVG Files To PNG (sec)	32.500
Standard Deviation	0.2%
GPAW - Carbon Nanotube (sec)	85.715
Standard Deviation	0.6%
Blender - BMW27 - CPU-Only (sec)	31.75
Standard Deviation	0.2%
Blender - Classroom - CPU-Only (sec)	80.71
Standard Deviation	0.2%
Blender - Barbershop - CPU-Only (sec)	111.34
Standard Deviation	0.4%
PyBench - T.F.A.T.T (Milliseconds)	967
Standard Deviation	1.7%
PyPerformance - go (Milliseconds)	259
PyPerformance - 2to3 (Milliseconds)	324
PyPerformance - float (Milliseconds)	106
Standard Deviation	0.9%
PyPerformance - nbody (Milliseconds)	118
Standard Deviation	0.8%
PyPerformance - pathlib (Milliseconds)	17.5
Standard Deviation	0.3%
PyPerformance - json.loads (Milliseconds)	22.3
Standard Deviation	0%
PyPerformance - crypto_pyaes (Milliseconds)	106
PyPerformance - regex_compile (Milliseconds)	166
PyPerformance - python_startup (Milliseconds)	16
PyPerformance - django_template (Milliseconds)	47.0
Standard Deviation	0.4%
PyPerformance - pickle_pure_python (Milliseconds)	432
Standard Deviation	0.3%

AI Benchmark Alpha - D.I.S (Score) 1787

AI Benchmark Alpha - D.T.S (Score) 1231

AI Benchmark Alpha - Device AI Score (Score) 3018

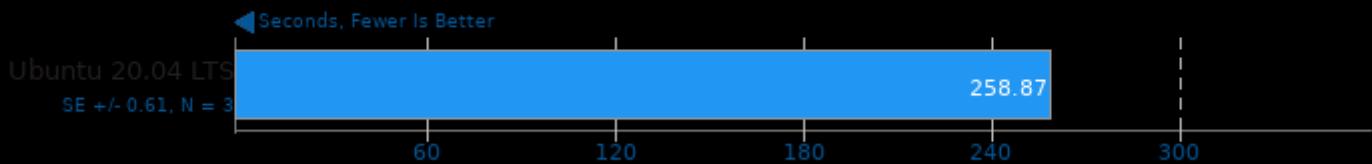
PHPBench - P.B.S (Score) 625335

Standard Deviation 1.1%

Tesseract OCR - T.T.O.7.I (sec) 27.054

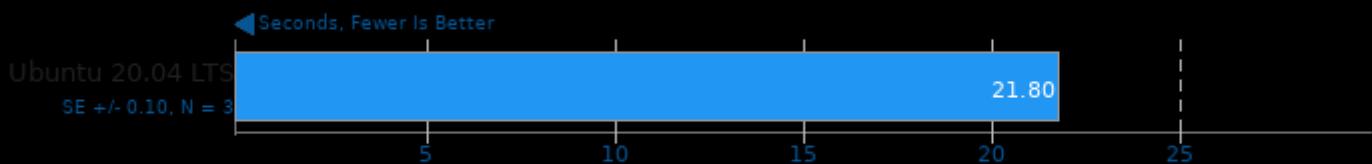
Standard Deviation 0.8%

WireGuard + Linux Networking Stack Stress Test



Parboil 2.5

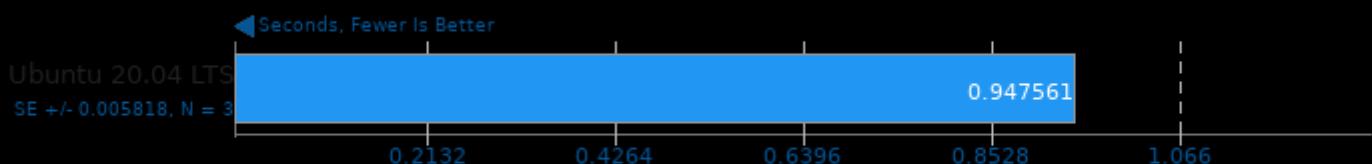
Test: OpenMP LBM



1. (CXX) g++ options: -lm -lpthread -lgomp -O3 -ffast-math -fopenmp

Parboil 2.5

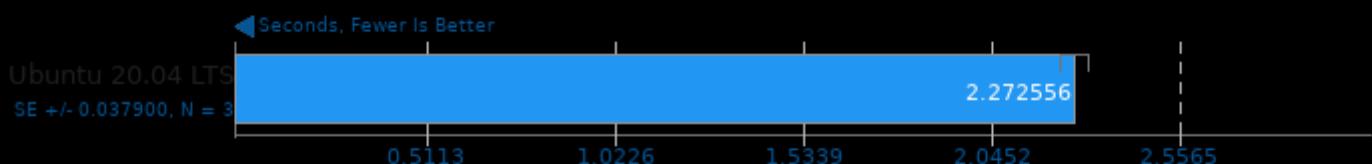
Test: OpenMP CUTCP



1. (CXX) g++ options: -lm -lpthread -lgomp -O3 -ffast-math -fopenmp

Parboil 2.5

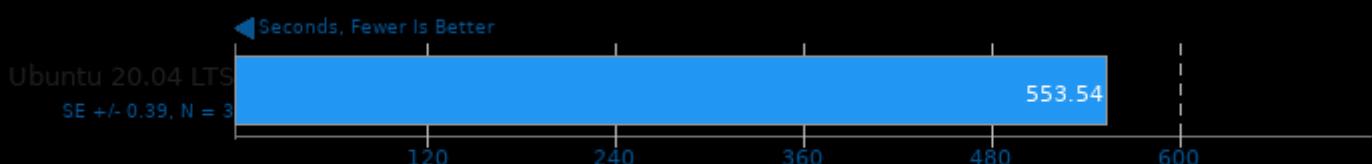
Test: OpenMP Stencil



1. (CXX) g++ options: -lm -lpthread -lgomp -O3 -ffast-math -fopenmp

Parboil 2.5

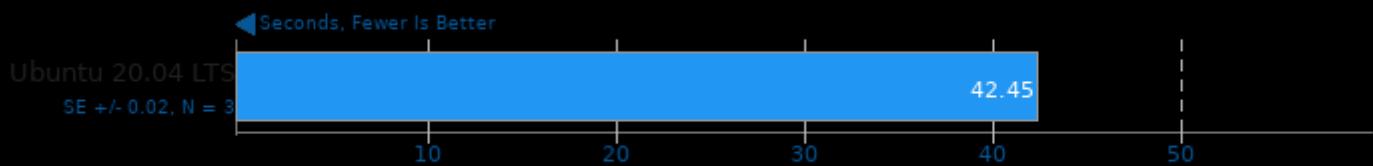
Test: OpenMP MRI Gridding



1. (CXX) g++ options: -lm -lpthread -lgomp -O3 -ffast-math -fopenmp

Rodinia 3.1

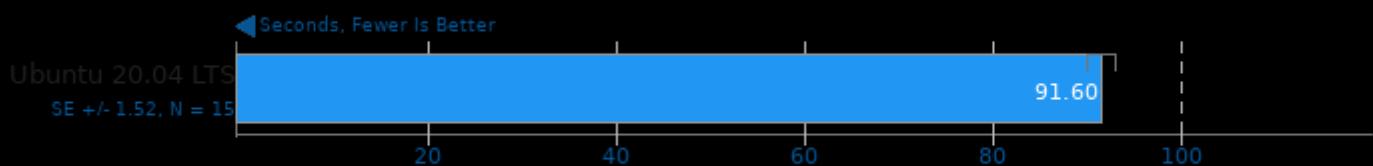
Test: OpenMP LavaMD



1. (CXX) g++ options: -O2 -fOpenCL

Rodinia 3.1

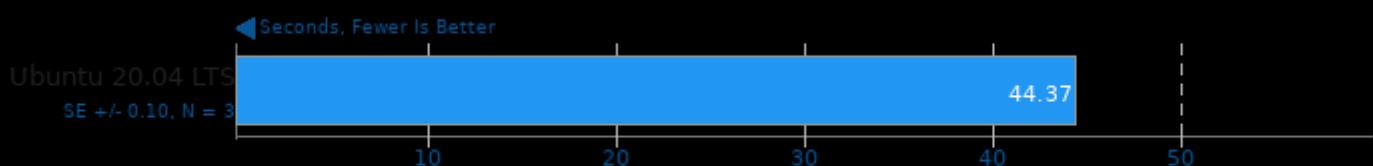
Test: OpenMP HotSpot3D



1. (CXX) g++ options: -O2 -fOpenCL

Rodinia 3.1

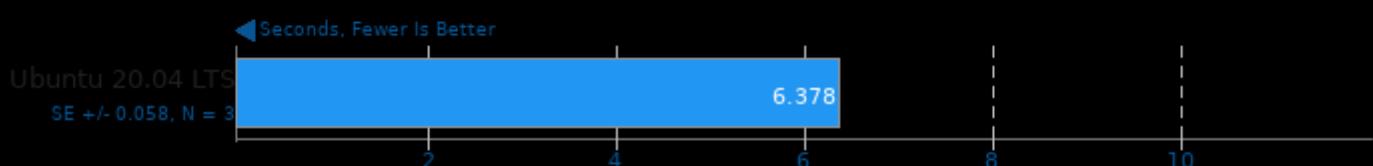
Test: OpenMP Leukocyte



1. (CXX) g++ options: -O2 -fOpenCL

Rodinia 3.1

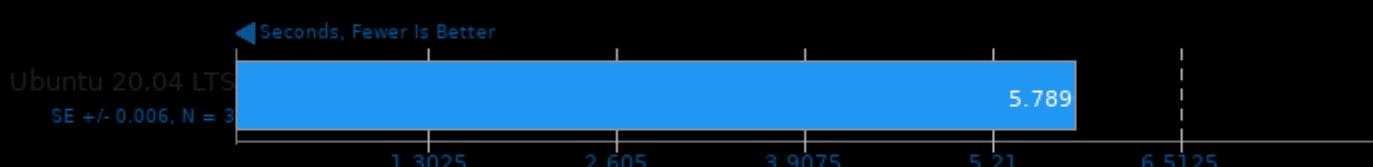
Test: OpenMP CFD Solver



1. (CXX) g++ options: -O2 -fOpenCL

Rodinia 3.1

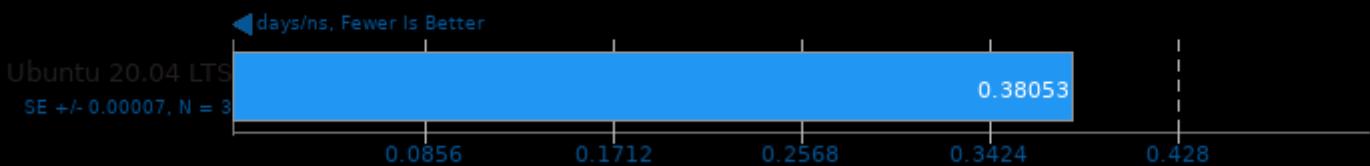
Test: OpenMP Streamcluster



1. (CXX) g++ options: -O2 -fOpenCL

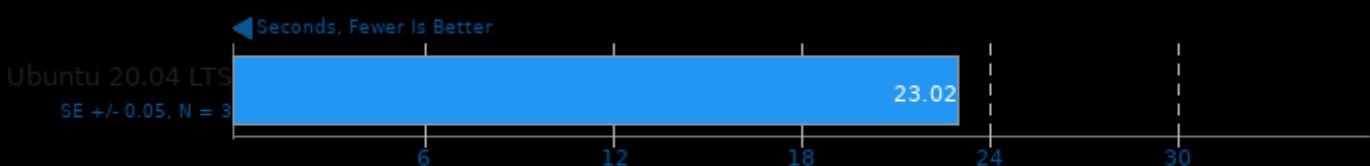
NAMD 2.14

ATPase Simulation - 327,506 Atoms



Xcompact3d Incompact3d 2021-03-11

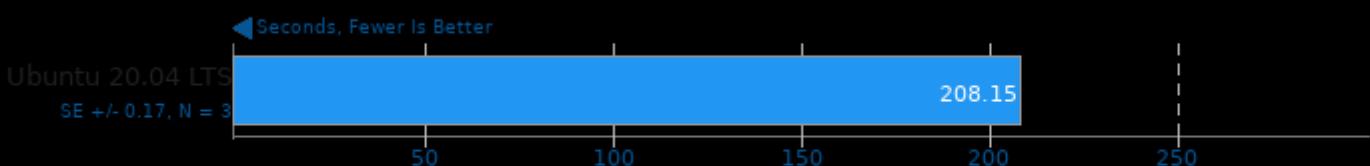
Input: input.i3d 193 Cells Per Direction



1. (F9X) gfortran options: -cpp -O2 -funroll-loops -floop-optimize -fcray-pointer -fbacktrace -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi

OpenFOAM 8

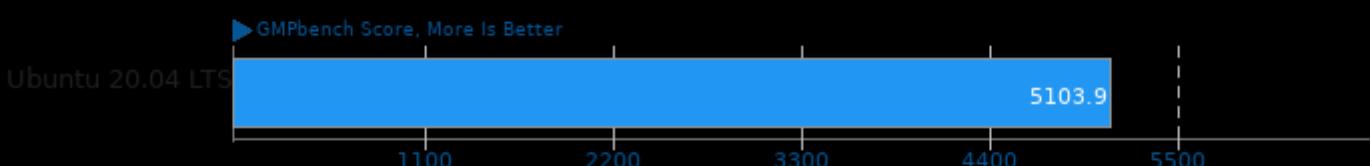
Input: Motorbike 60M



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

GNU GMP GMPbench 6.2.1

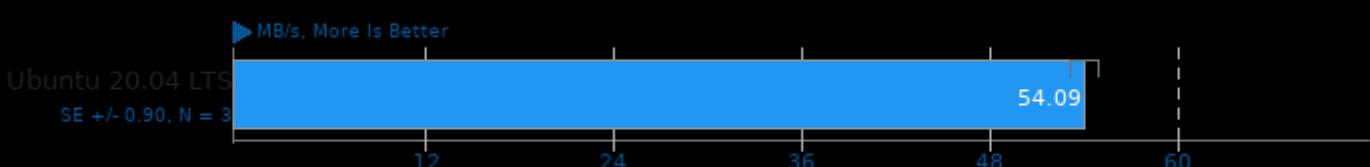
Total Time



1. (CC) gcc options: -O3 -fomit-frame-pointer -lm

LZ4 Compression 1.9.3

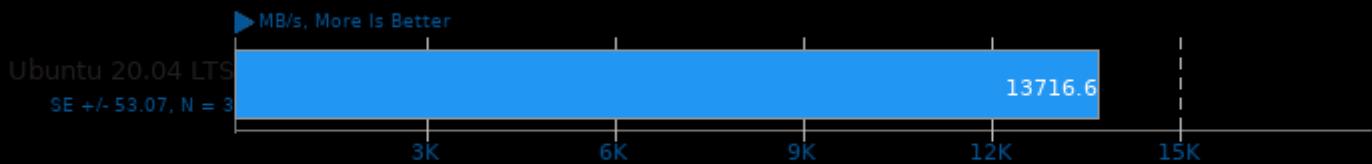
Compression Level: 3 - Compression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

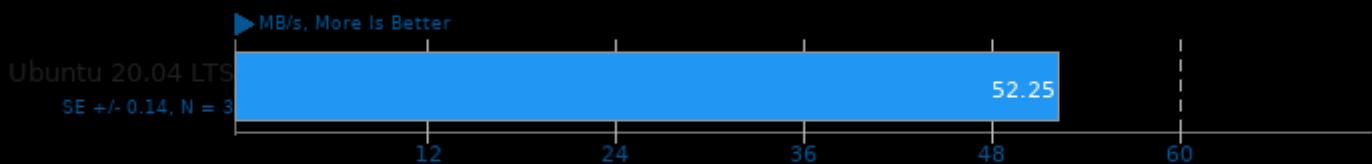
Compression Level: 3 - Decompression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

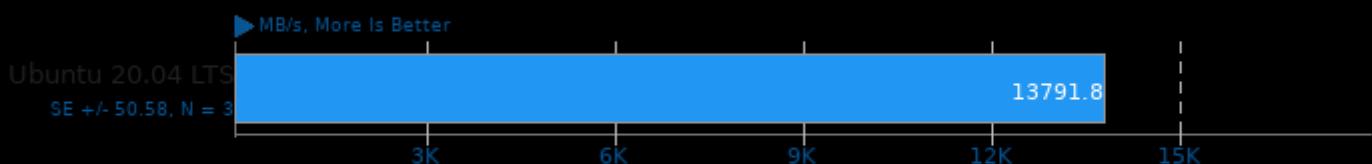
Compression Level: 9 - Compression Speed



1. (CC) gcc options: -O3

LZ4 Compression 1.9.3

Compression Level: 9 - Decompression Speed



1. (CC) gcc options: -O3

Zstd Compression 1.4.9

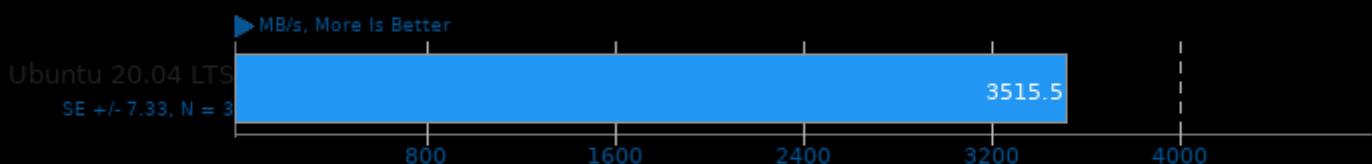
Compression Level: 19 - Compression Speed



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

Zstd Compression 1.4.9

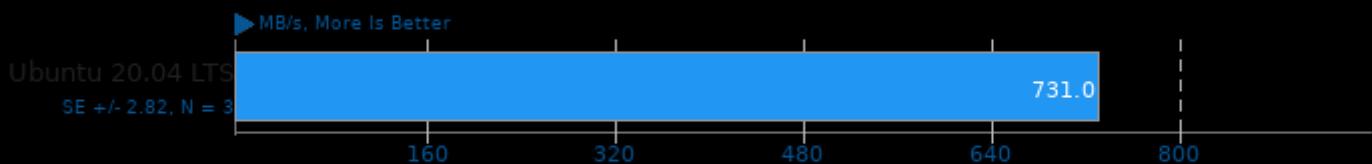
Compression Level: 19 - Decompression Speed



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

Zstd Compression 1.4.9

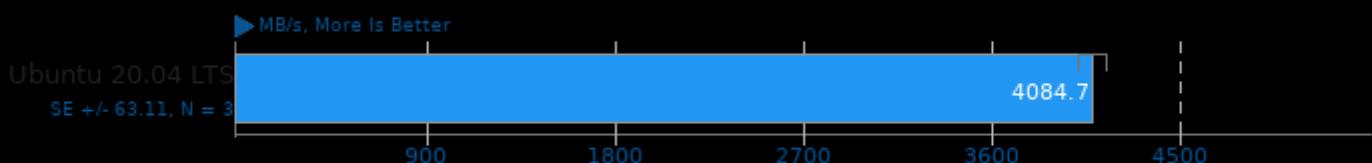
Compression Level: 8, Long Mode - Compression Speed



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

Zstd Compression 1.4.9

Compression Level: 8, Long Mode - Decompression Speed



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

Zstd Compression 1.4.9

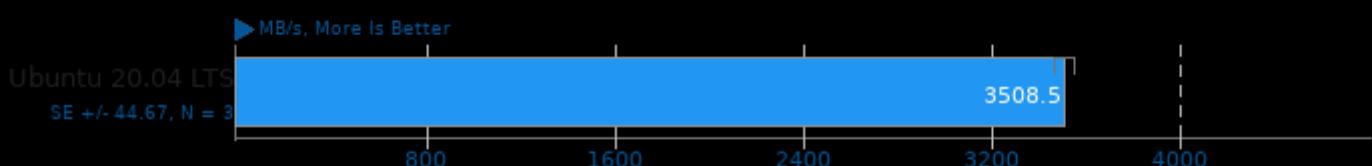
Compression Level: 19, Long Mode - Compression Speed



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

Zstd Compression 1.4.9

Compression Level: 19, Long Mode - Decompression Speed



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

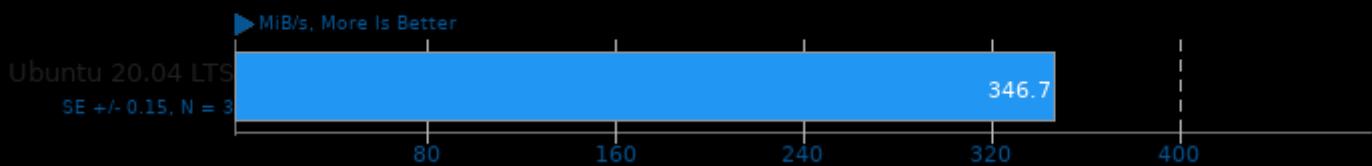
LuaRadio 0.9.1

Test: Five Back to Back FIR Filters



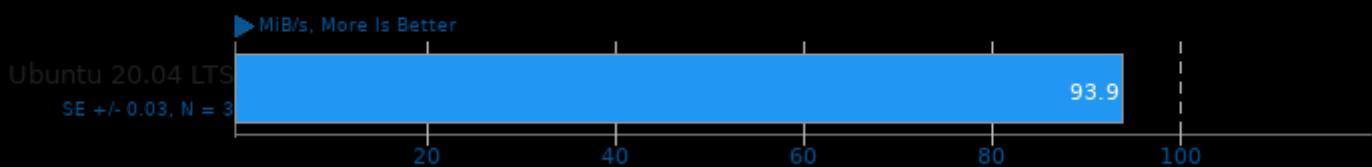
LuaRadio 0.9.1

Test: FM Deemphasis Filter



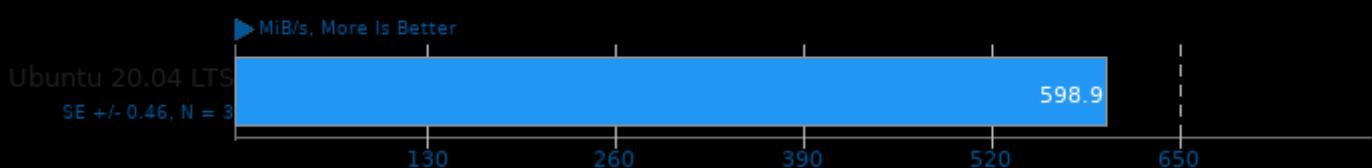
LuaRadio 0.9.1

Test: Hilbert Transform



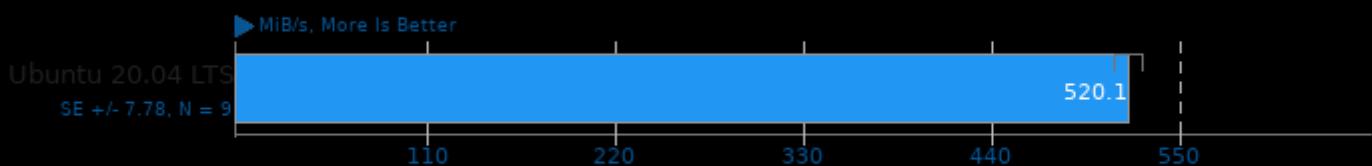
LuaRadio 0.9.1

Test: Complex Phase



GNU Radio

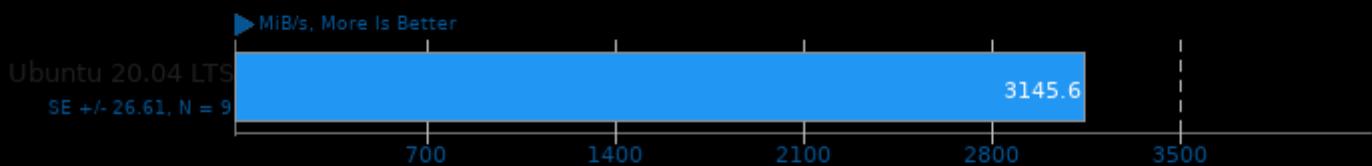
Test: Five Back to Back FIR Filters



1.3.8.1.0

GNU Radio

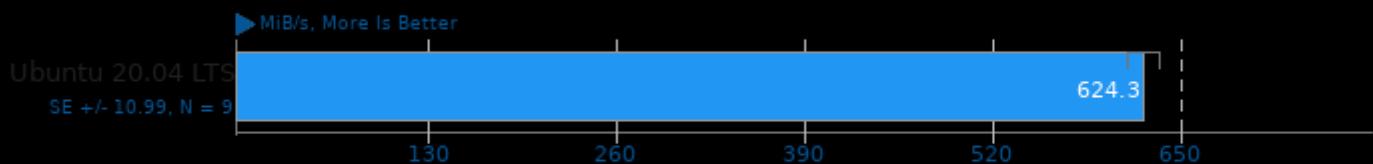
Test: Signal Source (Cosine)



1.3.8.1.0

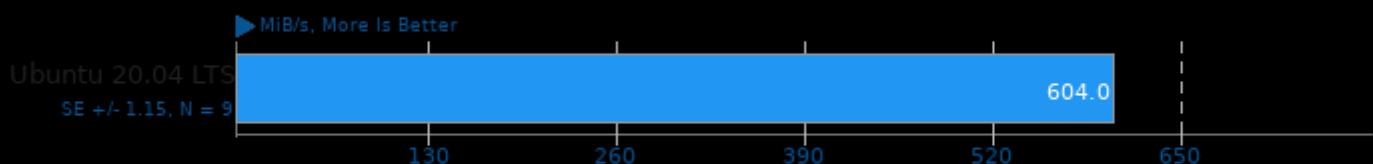
GNU Radio

Test: FIR Filter



GNU Radio

Test: IIR Filter



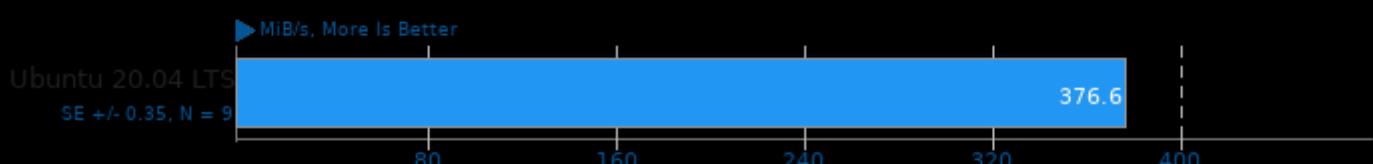
GNU Radio

Test: FM Deemphasis Filter



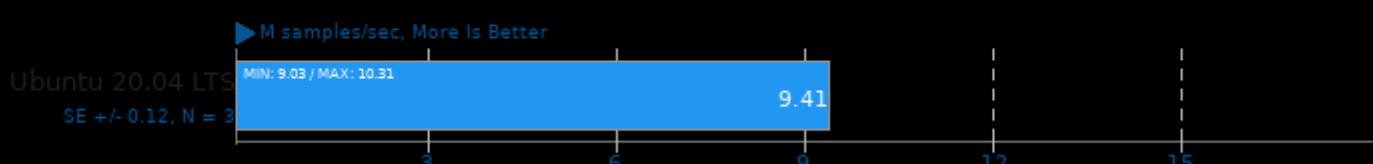
GNU Radio

Test: Hilbert Transform



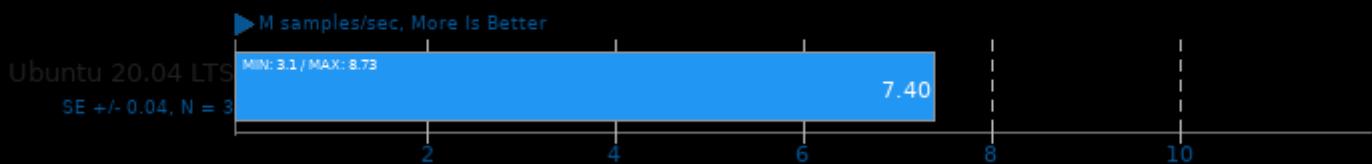
LuxCoreRender 2.5

Scene: DLSC - Acceleration: CPU



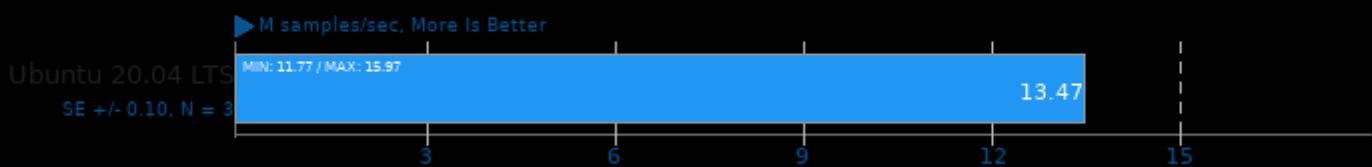
LuxCoreRender 2.5

Scene: Danish Mood - Acceleration: CPU



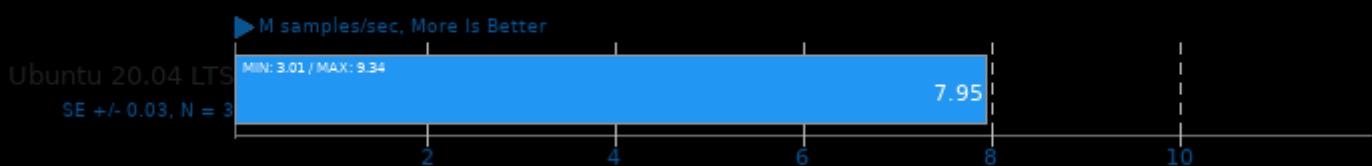
LuxCoreRender 2.5

Scene: Orange Juice - Acceleration: CPU



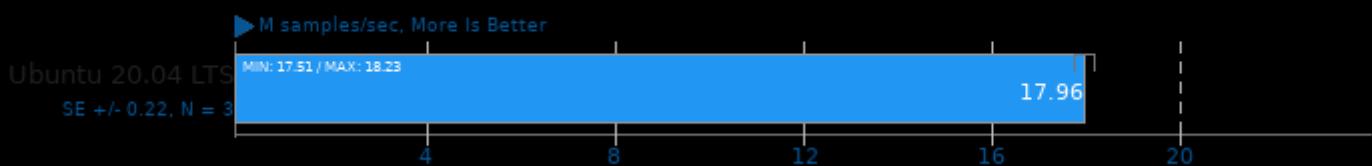
LuxCoreRender 2.5

Scene: LuxCore Benchmark - Acceleration: CPU



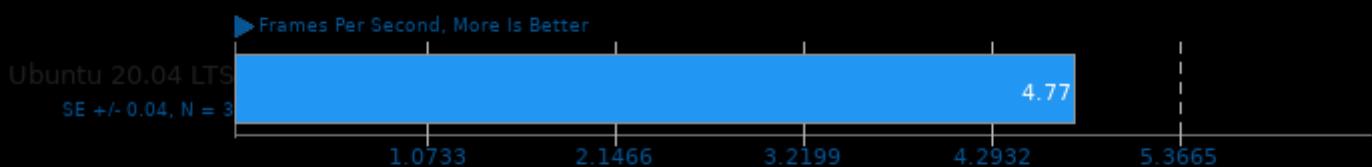
LuxCoreRender 2.5

Scene: Rainbow Colors and Prism - Acceleration: CPU



AOM AV1 3.0

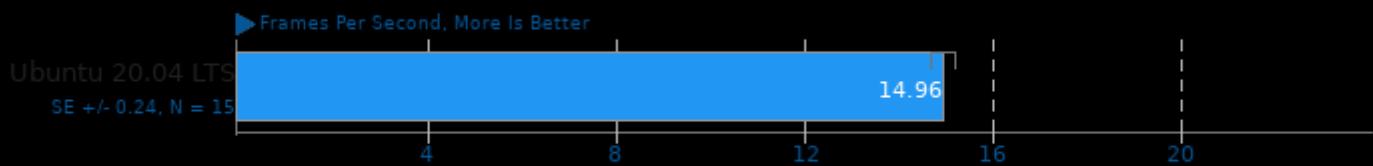
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-plt -fthread

AOM AV1 3.0

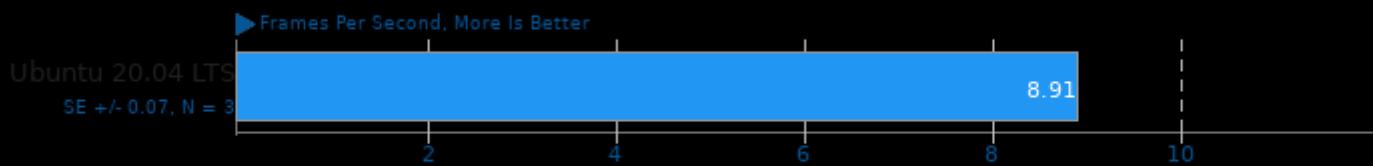
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 4K



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

AOM AV1 3.0

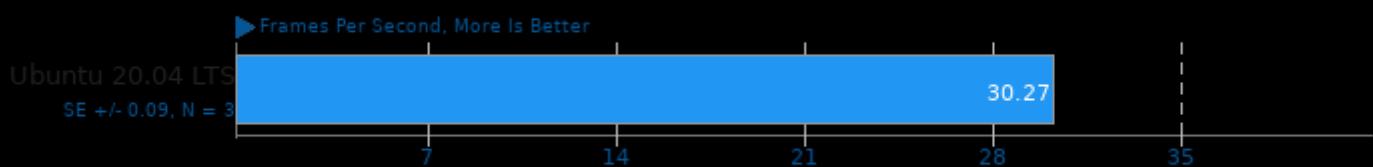
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 4K



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

AOM AV1 3.0

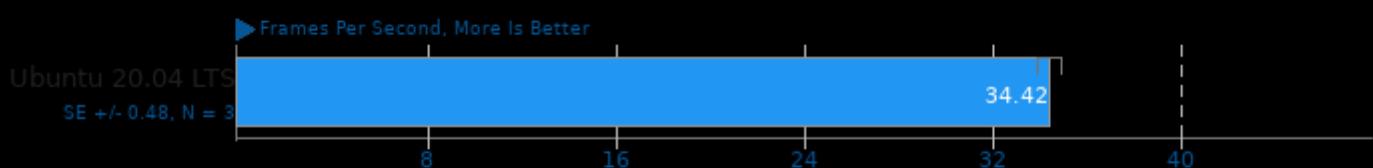
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 4K



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

AOM AV1 3.0

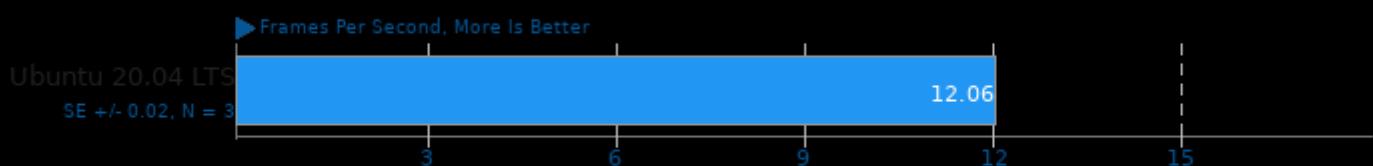
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 4K



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

SVT-AV1 0.8

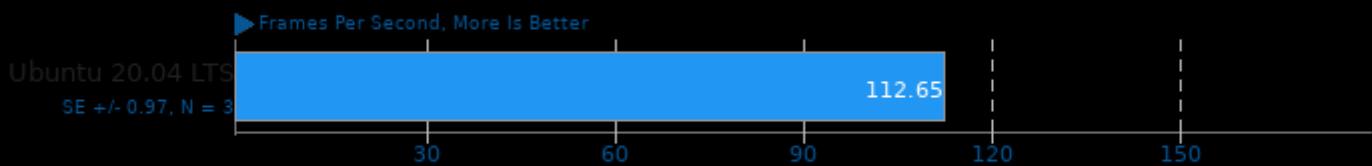
Encoder Mode: Enc Mode 4 - Input: 1080p



1. (CXX) g++ options: -O3 -fcommon -fPIE -fPIC -pie

SVT-AV1 0.8

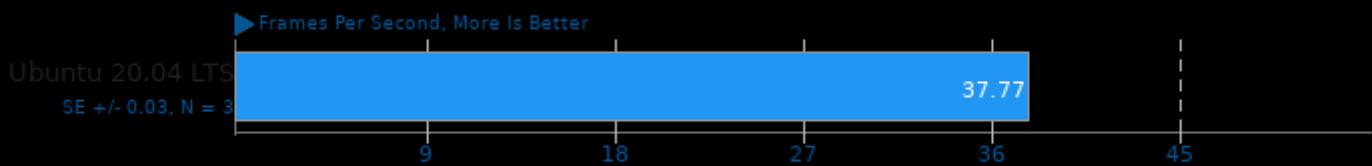
Encoder Mode: Enc Mode 8 - Input: 1080p



1. (CXX) g++ options: -O3 -fcommon -fPIE -fPIC -pie

SVT-HEVC 1.5.0

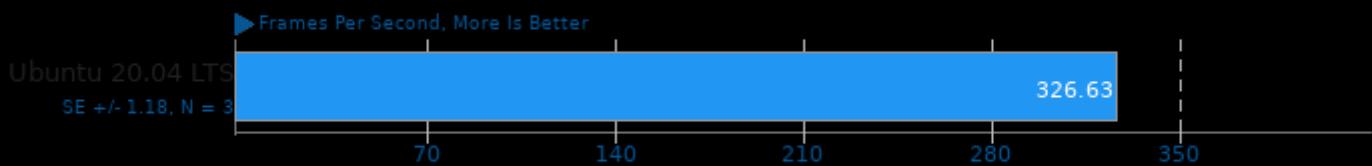
Tuning: 1 - Input: Bosphorus 1080p



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

SVT-HEVC 1.5.0

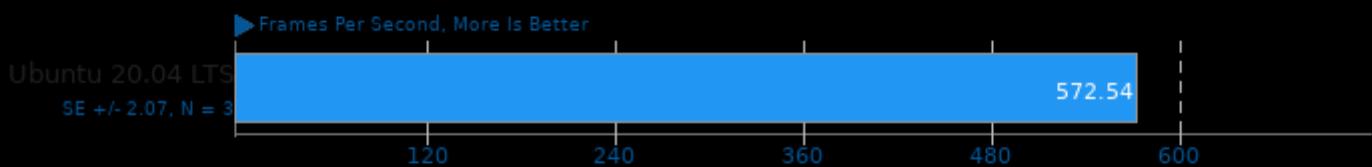
Tuning: 7 - Input: Bosphorus 1080p



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

SVT-HEVC 1.5.0

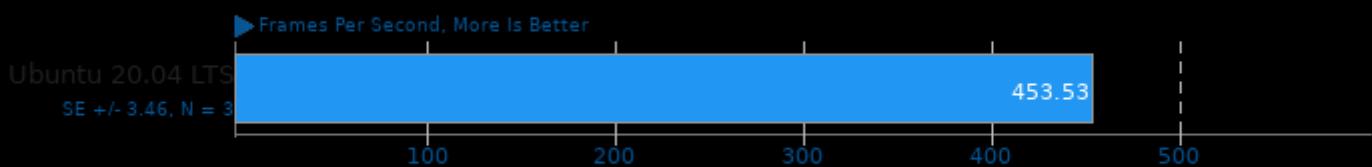
Tuning: 10 - Input: Bosphorus 1080p



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

SVT-VP9 0.3

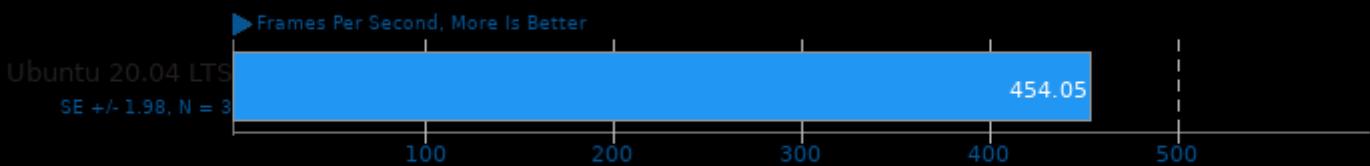
Tuning: VMAF Optimized - Input: Bosphorus 1080p



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

SVT-VP9 0.3

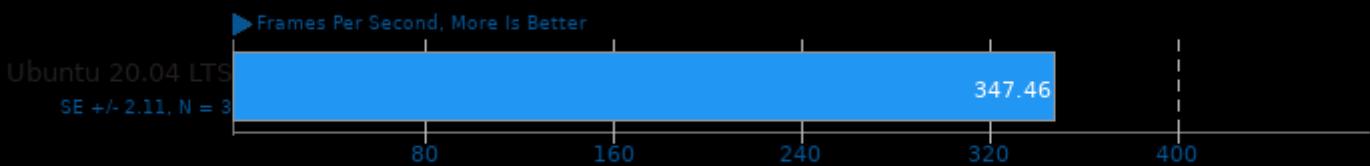
Tuning: PSNR/SSIM Optimized - Input: Bosphorus 1080p



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

SVT-VP9 0.3

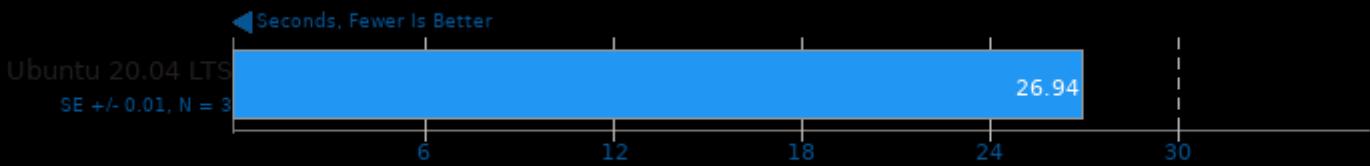
Tuning: Visual Quality Optimized - Input: Bosphorus 1080p



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

libavif avifenc 0.9.0

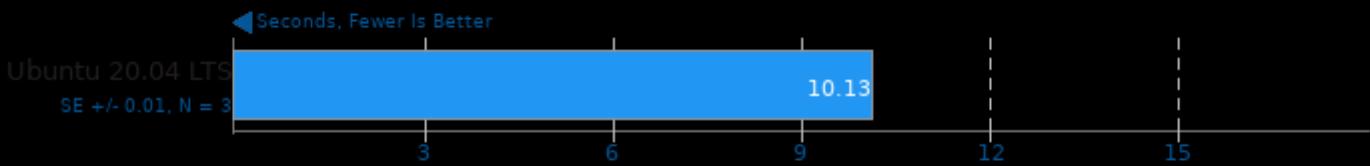
Encoder Speed: 2



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

libavif avifenc 0.9.0

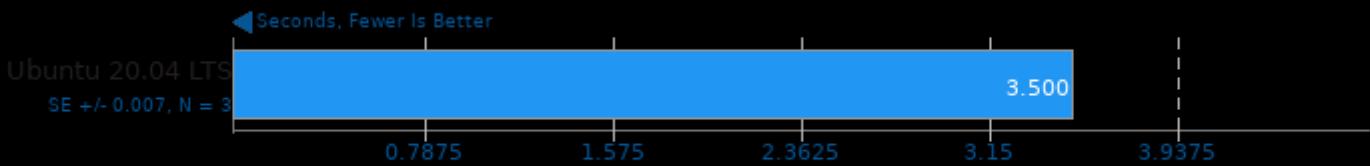
Encoder Speed: 6



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

libavif avifenc 0.9.0

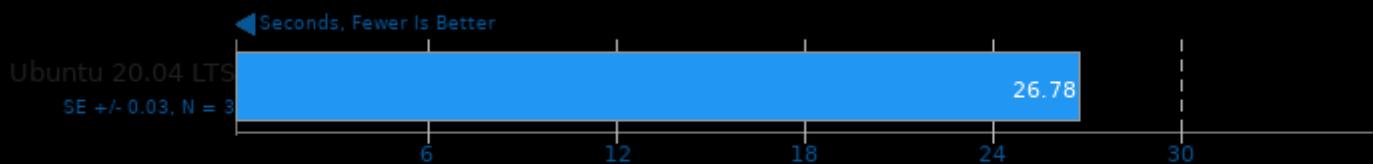
Encoder Speed: 10



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

libavif avifenc 0.9.0

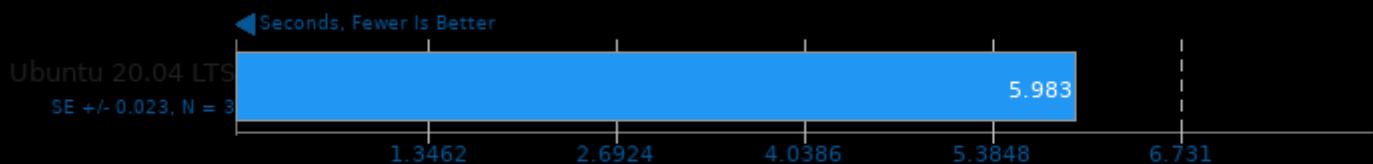
Encoder Speed: 6, Lossless



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

libavif avifenc 0.9.0

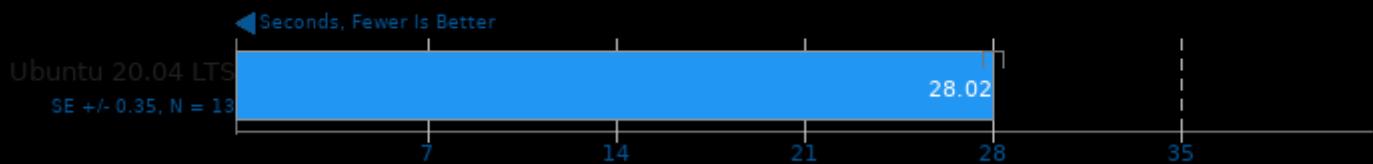
Encoder Speed: 10, Lossless



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

Timed Linux Kernel Compilation 5.10.20

Time To Compile



Timed Wasmer Compilation 1.0.2

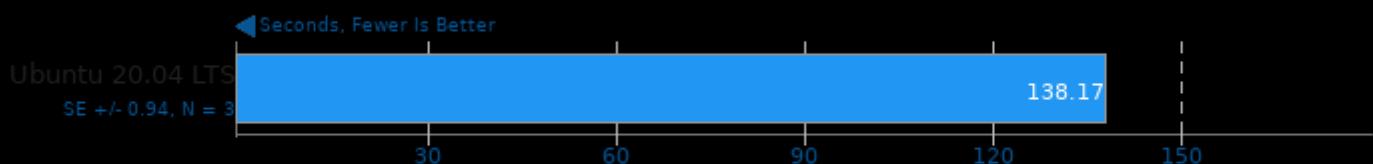
Time To Compile



1. (CC) gcc options: -m64 -pie -nodefaultlibs -ldl -lrt -lpthread -lgcc_s -lc -lm -util

Ngspice 34

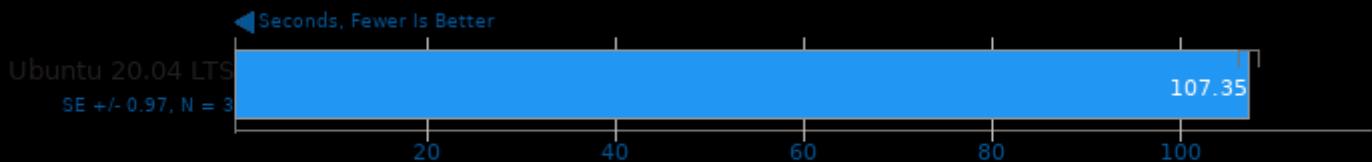
Circuit: C2670



1. (CC) gcc options: -O0 -fopenmp -lm -fftw3 -lXaw -lXmu -lXt -lXext -lX11 -lSM -lICE

Ngspice 34

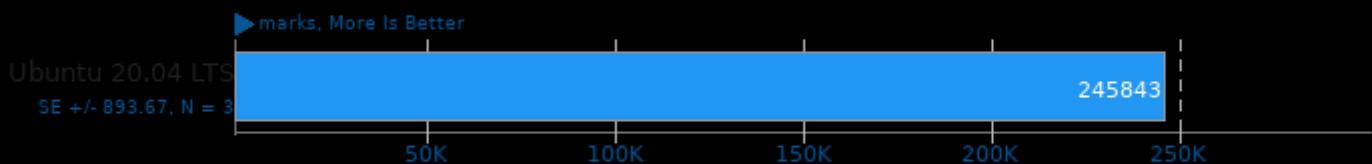
Circuit: C7552



1. (CC) gcc options: -O0 -fopenmp -lm -lfftw3 -lxaw -lxmu -lxext -lxext -lx11 -lSM -lICE

SecureMark 1.0.4

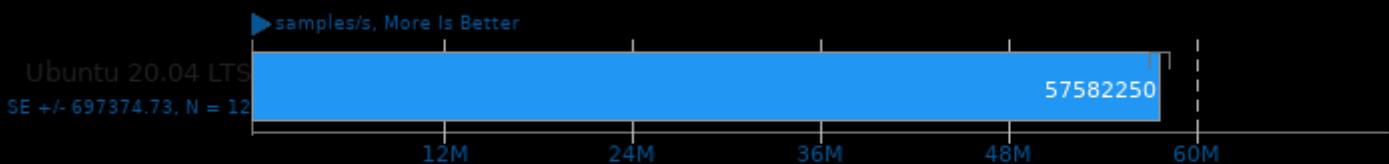
Benchmark: SecureMark-TLS



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

Liquid-DSP 2021.01.31

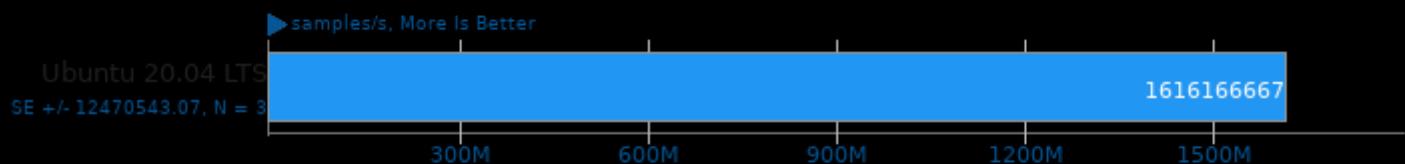
Threads: 1 - Buffer Length: 256 - Filter Length: 57



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

Liquid-DSP 2021.01.31

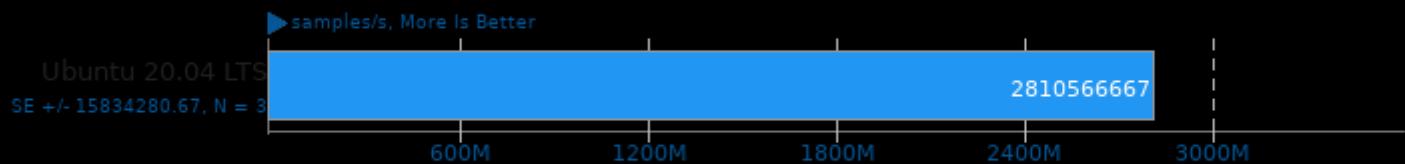
Threads: 32 - Buffer Length: 256 - Filter Length: 57



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

Liquid-DSP 2021.01.31

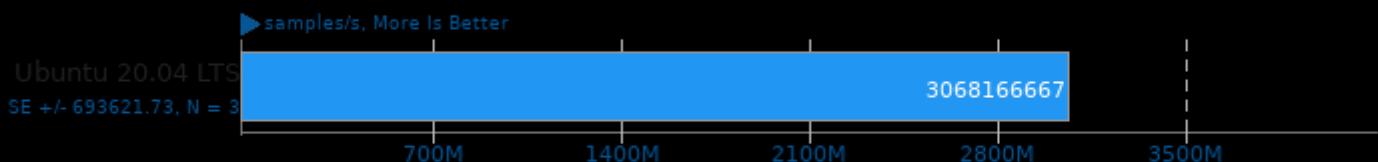
Threads: 64 - Buffer Length: 256 - Filter Length: 57



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

Liquid-DSP 2021.01.31

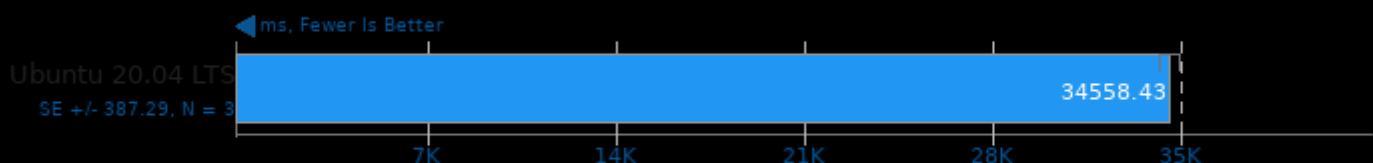
Threads: 128 - Buffer Length: 256 - Filter Length: 57



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

FinanceBench 2016-07-25

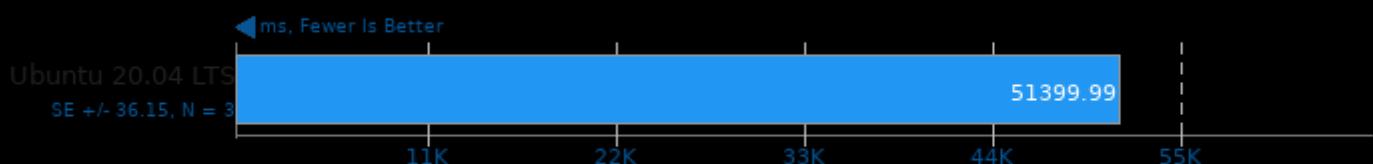
Benchmark: Repo OpenMP



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

FinanceBench 2016-07-25

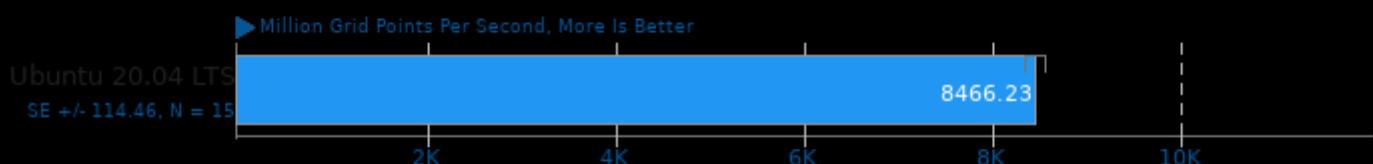
Benchmark: Bonds OpenMP



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

ASKAP 1.0

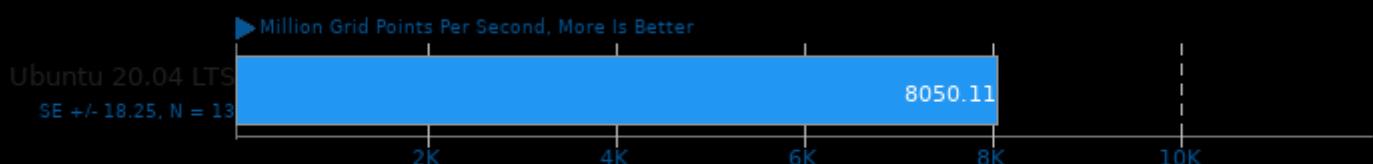
Test: tConvolve OpenMP - Gridding



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

ASKAP 1.0

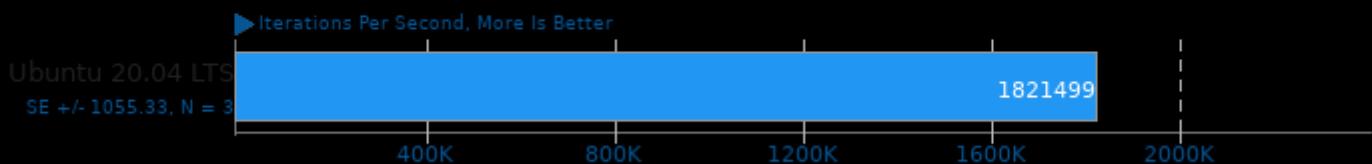
Test: tConvolve OpenMP - Degridding



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

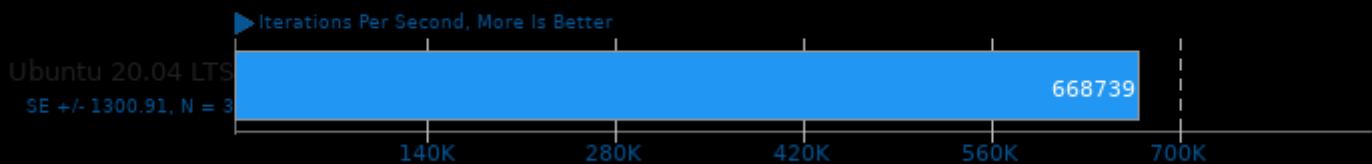
Cryptsetup

PBKDF2-sha512



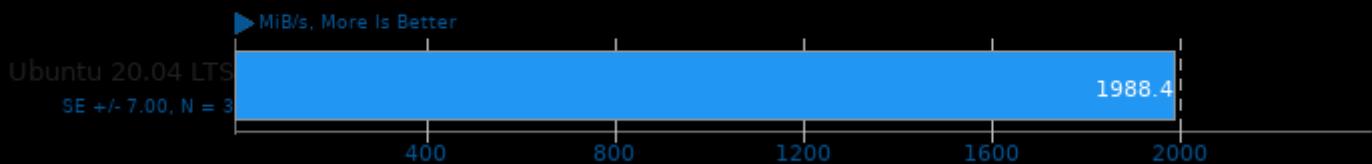
Cryptsetup

PBKDF2-whirlpool



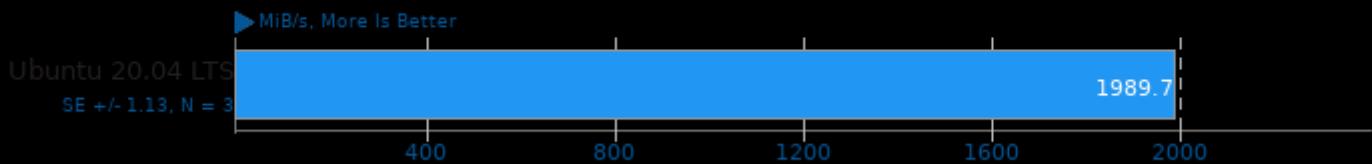
Cryptsetup

AES-XTS 256b Encryption



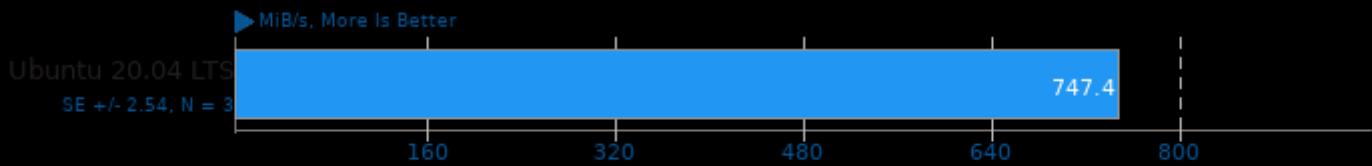
Cryptsetup

AES-XTS 256b Decryption



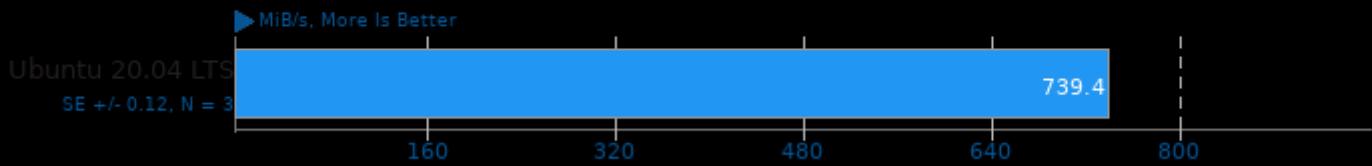
Cryptsetup

Serpent-XTS 256b Encryption



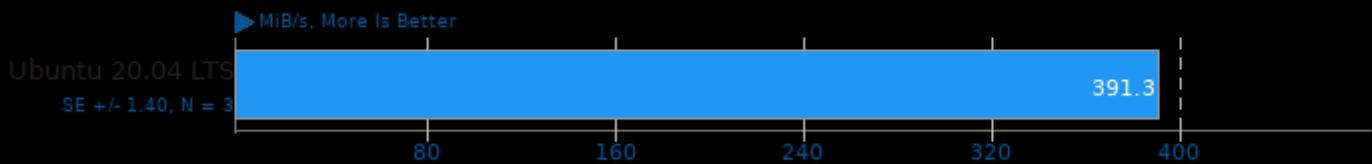
Cryptsetup

Serpent-XTS 256b Decryption



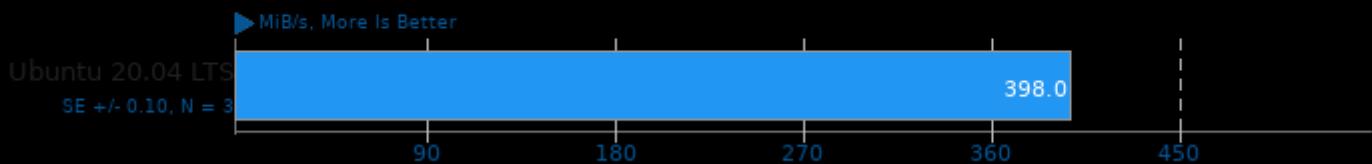
Cryptsetup

Twofish-XTS 256b Encryption



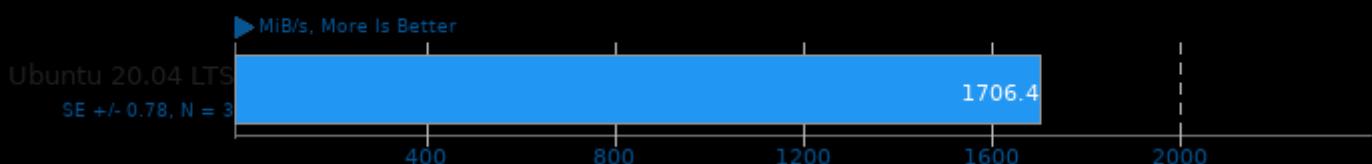
Cryptsetup

Twofish-XTS 256b Decryption



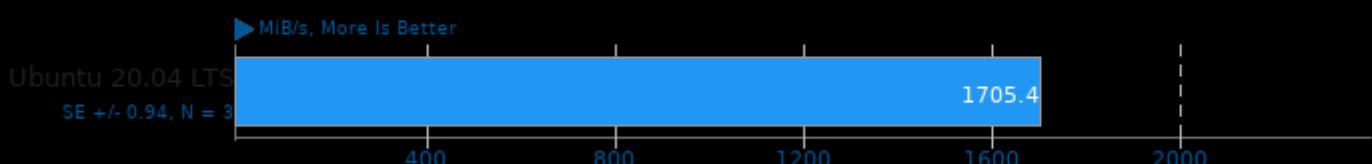
Cryptsetup

AES-XTS 512b Encryption



Cryptsetup

AES-XTS 512b Decryption



Cryptsetup

Serpent-XTS 512b Encryption



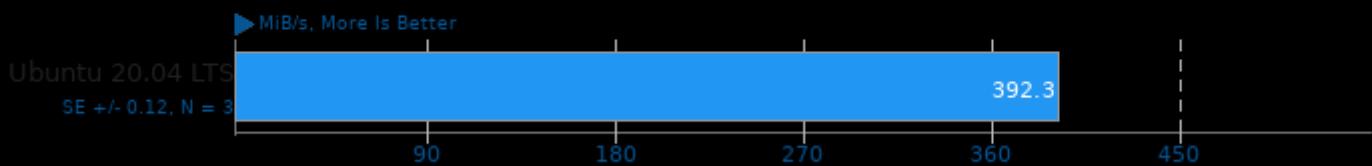
Cryptsetup

Serpent-XTS 512b Decryption



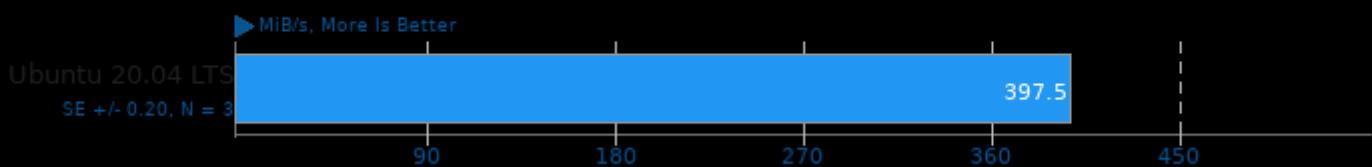
Cryptsetup

Twofish-XTS 512b Encryption



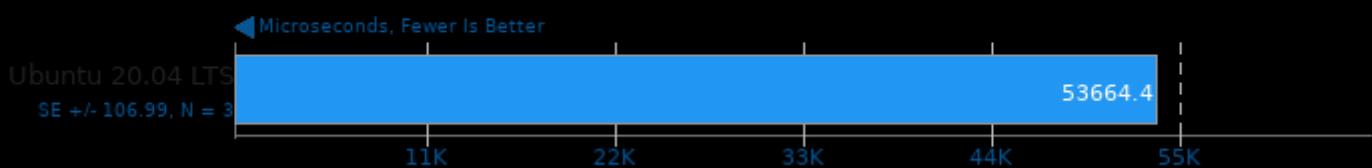
Cryptsetup

Twofish-XTS 512b Decryption



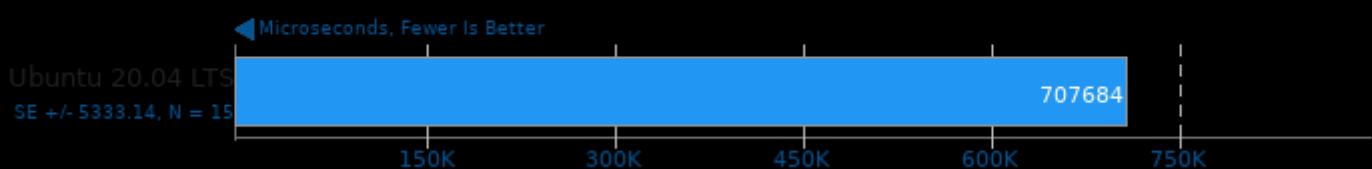
TensorFlow Lite 2020-08-23

Model: SqueezeNet



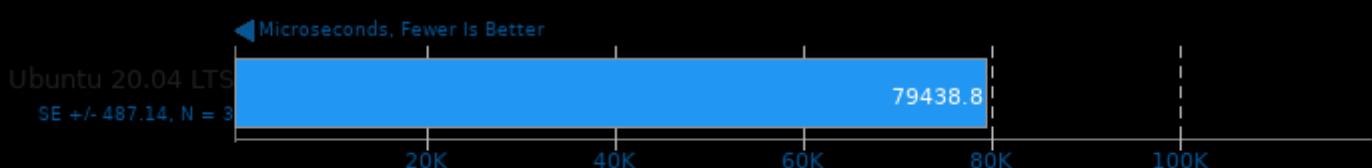
TensorFlow Lite 2020-08-23

Model: Inception V4



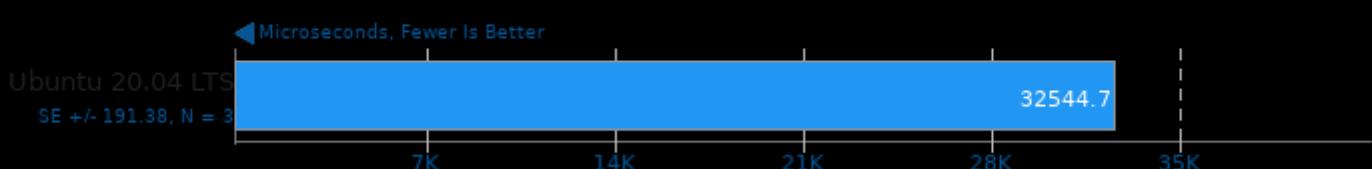
TensorFlow Lite 2020-08-23

Model: NASNet Mobile



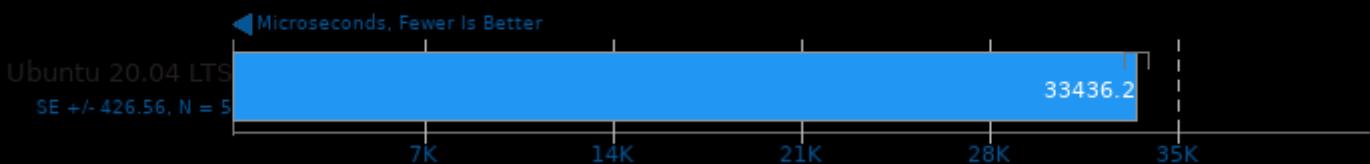
TensorFlow Lite 2020-08-23

Model: Mobilenet Float



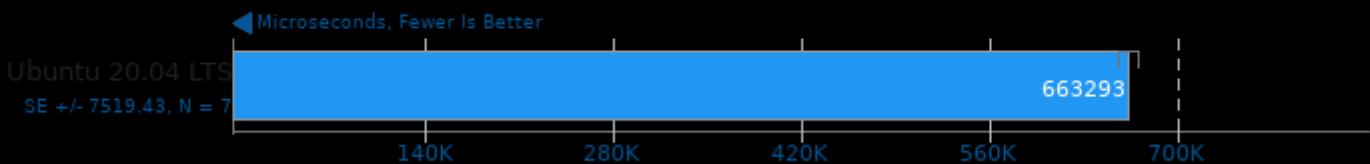
TensorFlow Lite 2020-08-23

Model: Mobilenet Quant



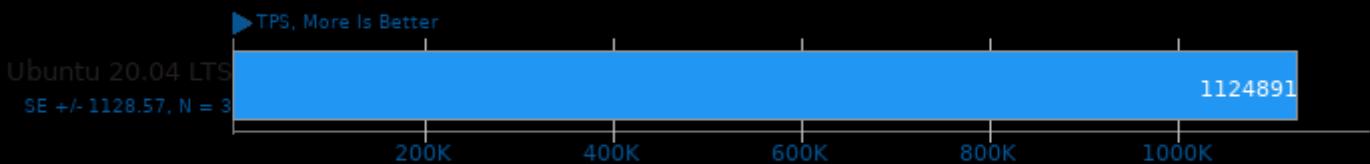
TensorFlow Lite 2020-08-23

Model: Inception ResNet V2



PostgreSQL pgbench 13.0

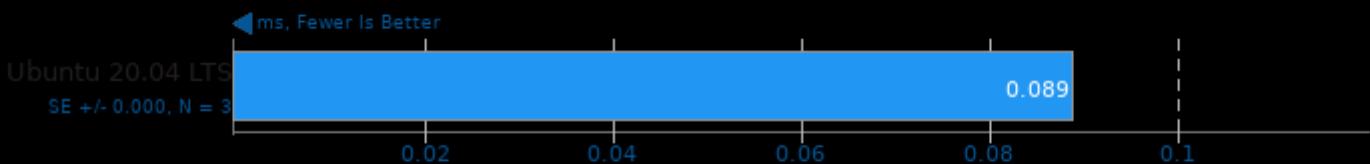
Scaling Factor: 100 - Clients: 100 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

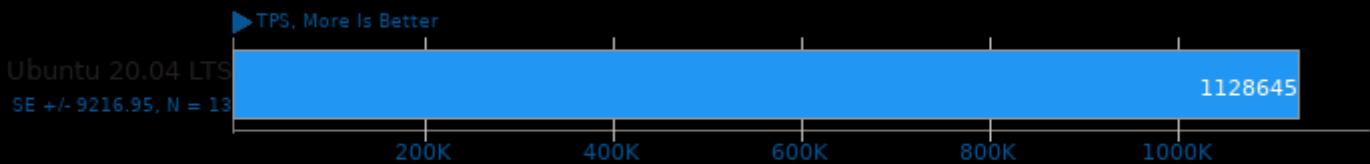
Scaling Factor: 100 - Clients: 100 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

Scaling Factor: 100 - Clients: 250 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

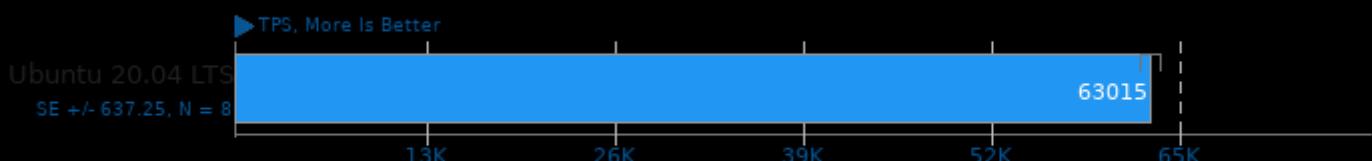
Scaling Factor: 100 - Clients: 250 - Mode: Read Only - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

Scaling Factor: 100 - Clients: 100 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

Scaling Factor: 100 - Clients: 100 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

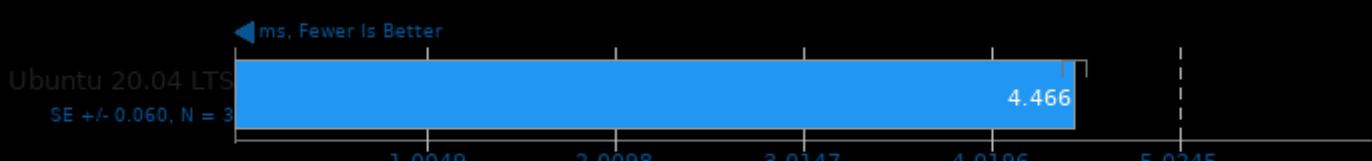
Scaling Factor: 100 - Clients: 250 - Mode: Read Write



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

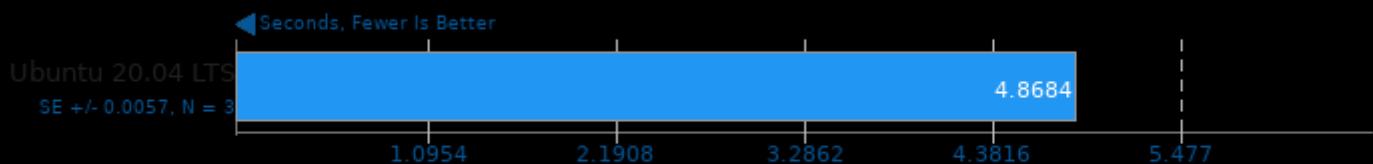
Scaling Factor: 100 - Clients: 250 - Mode: Read Write - Average Latency



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -pthread -lrt -ldl -lm

ASTC Encoder 2.4

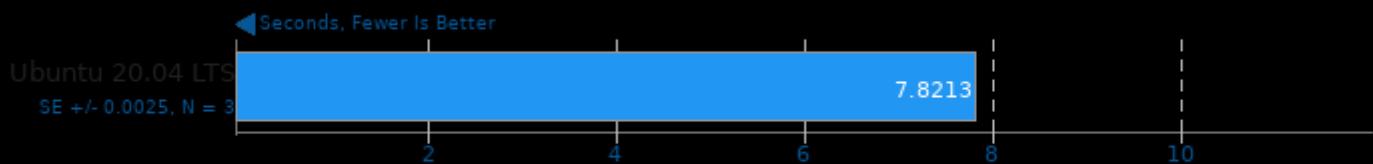
Preset: Medium



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

ASTC Encoder 2.4

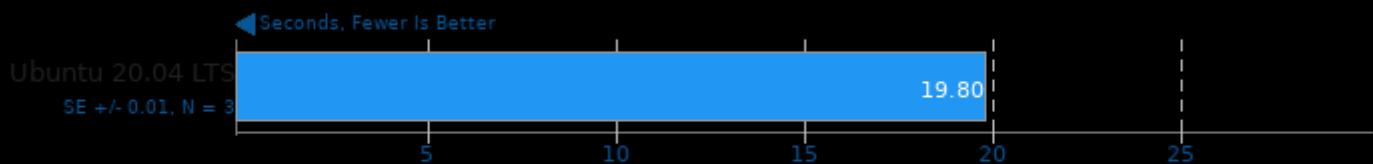
Preset: Thorough



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

ASTC Encoder 2.4

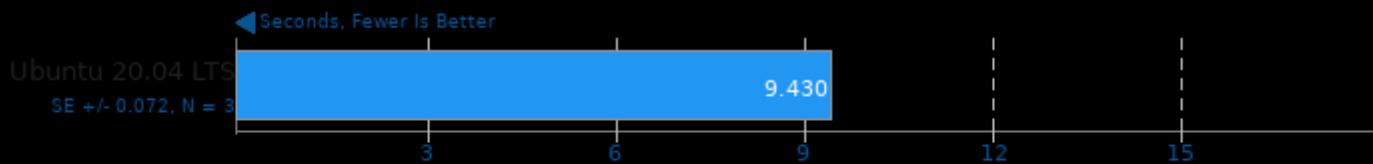
Preset: Exhaustive



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

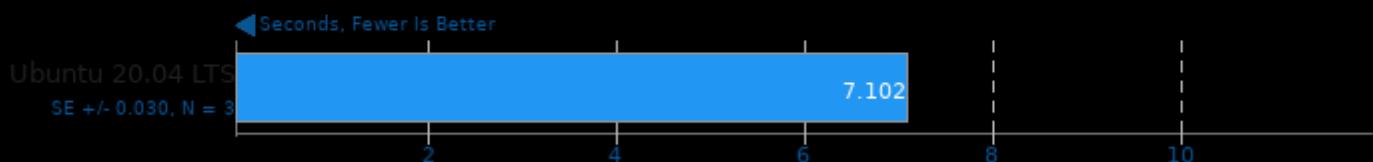
GEGL

Operation: Crop



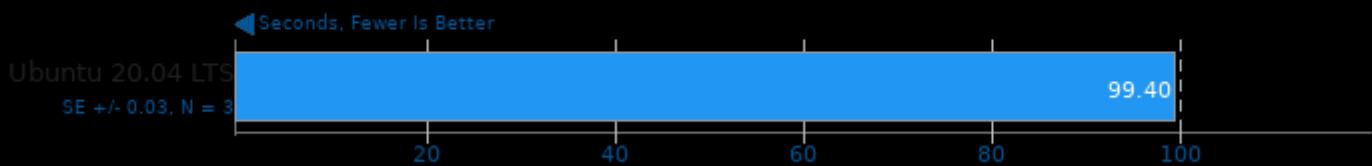
GEGL

Operation: Scale

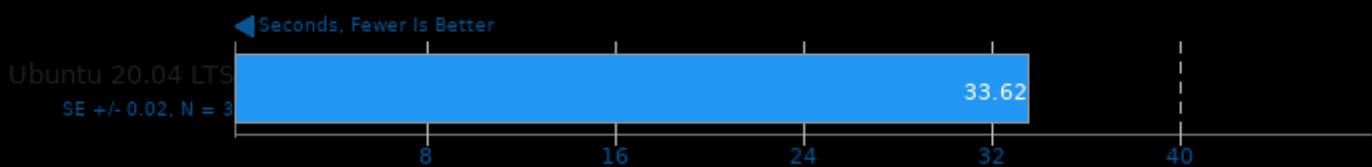


GEGL

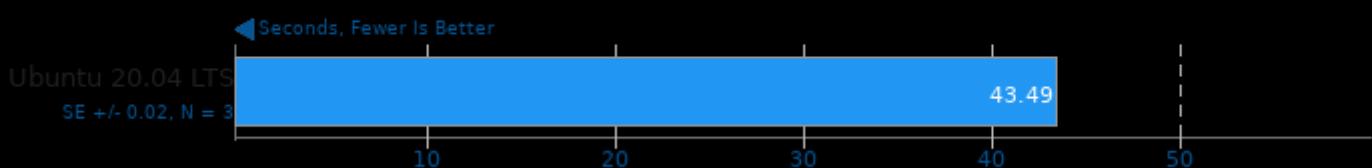
Operation: Cartoon

**GEGL**

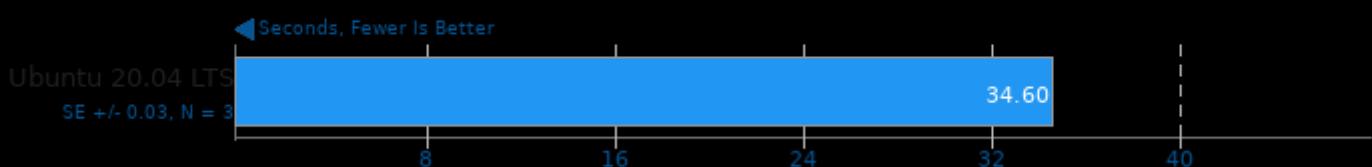
Operation: Reflect

**GEGL**

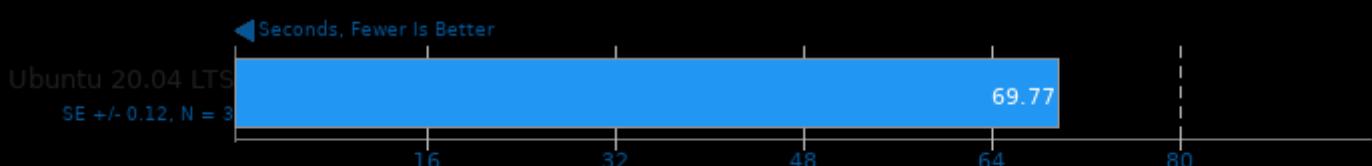
Operation: Antialias

**GEGL**

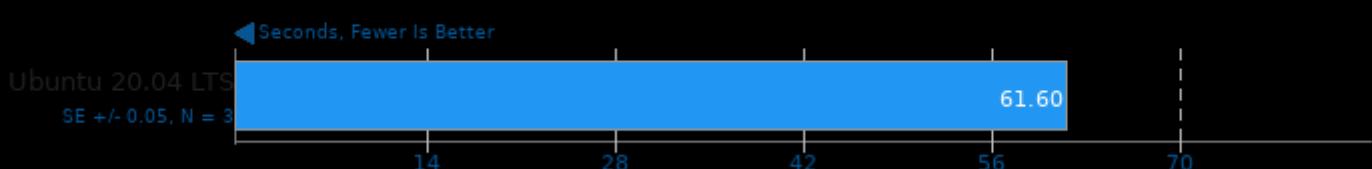
Operation: Tile Glass

**GEGL**

Operation: Wavelet Blur

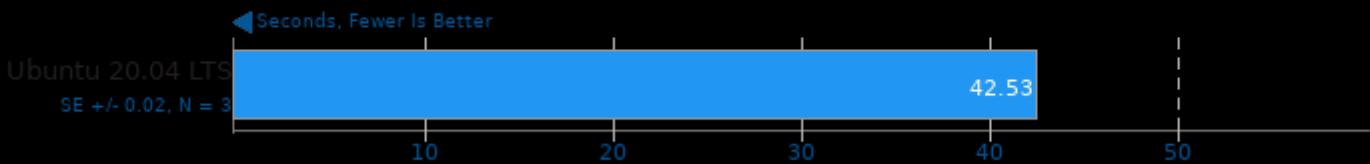
**GEGL**

Operation: Color Enhance



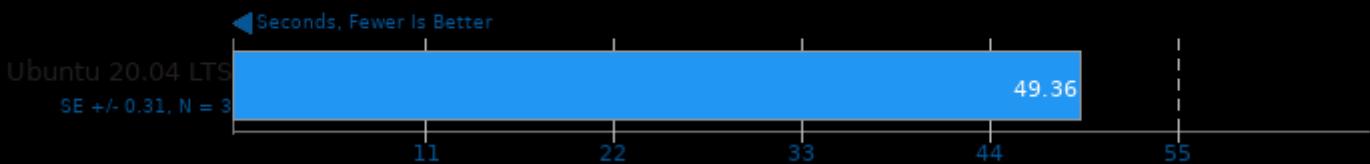
GEGL

Operation: Rotate 90 Degrees



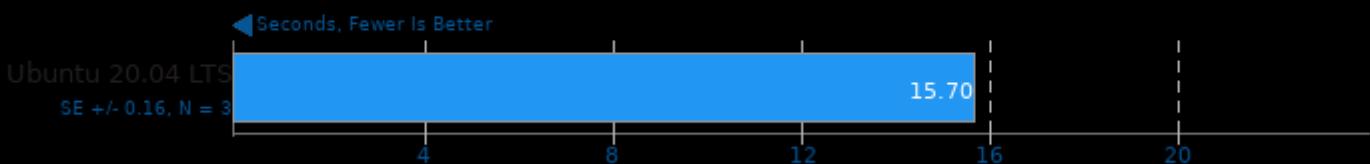
Hugin

Panorama Photo Assistant + Stitching Time

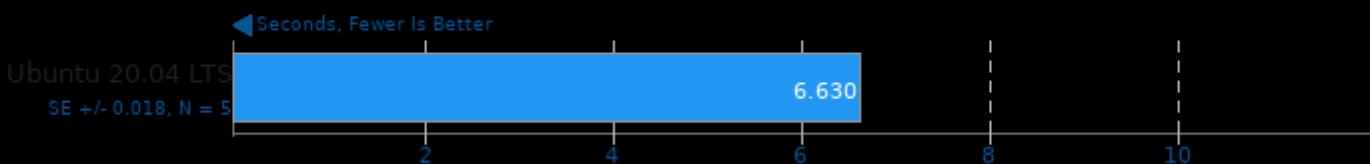


OCRMypdf 9.6.0+dfsg

Processing 60 Page PDF Document

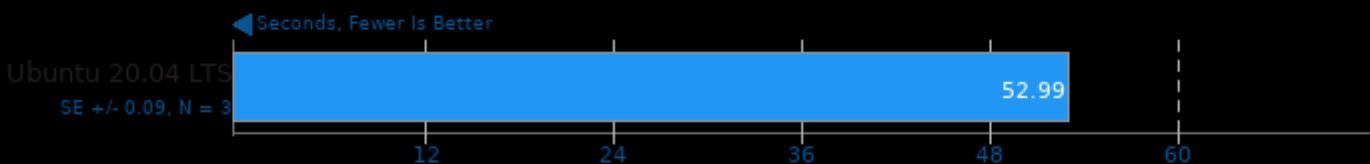


GNU Octave Benchmark 5.2.0



RawTherapee

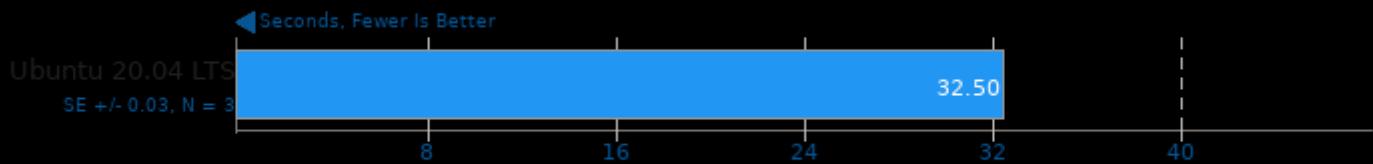
Total Benchmark Time



1. RawTherapee, version 5.8, command line.

librsvg

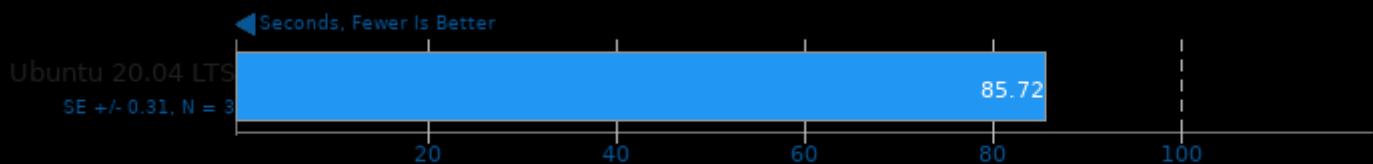
Operation: SVG Files To PNG



1. rsvg-convert version 2.48.9

GPAW 20.1

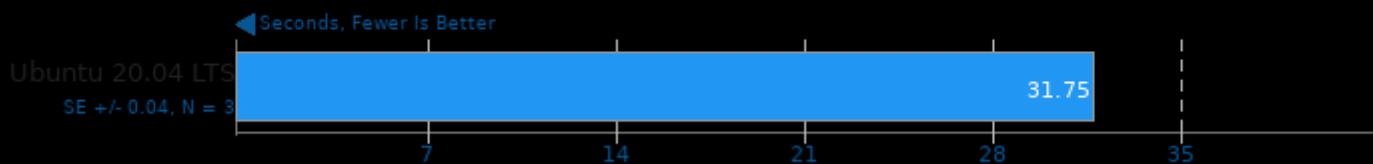
Input: Carbon Nanotube



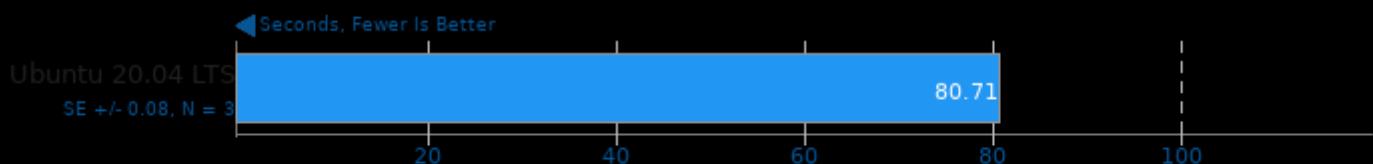
1. (CC) gcc options: -pthread -fwrapv -O2 -fxc -lblas -lmpi

Blender 2.92

Blend File: BMW27 - Compute: CPU-Only

**Blender 2.92**

Blend File: Classroom - Compute: CPU-Only

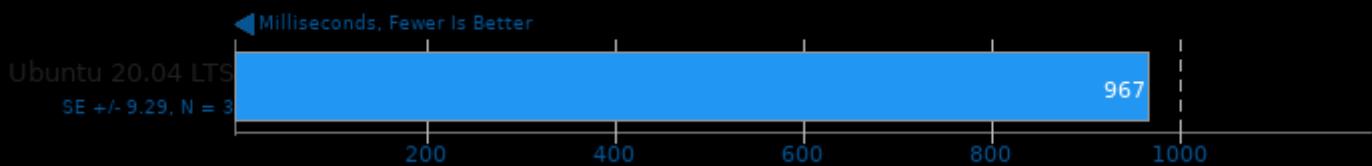
**Blender 2.92**

Blend File: Barbershop - Compute: CPU-Only



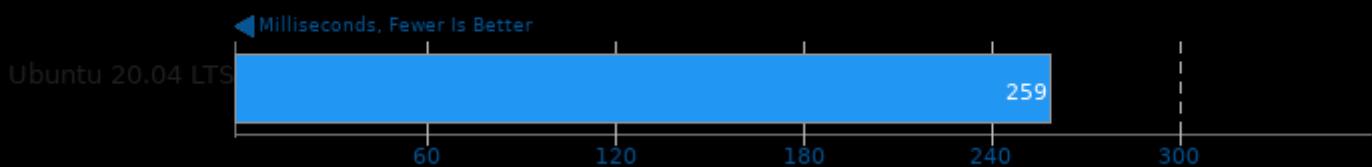
PyBench 2018-02-16

Total For Average Test Times



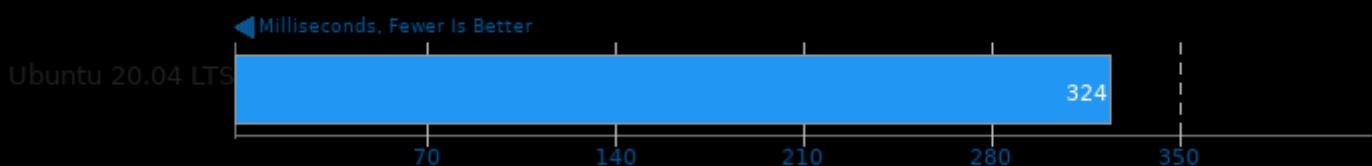
PyPerformance 1.0.0

Benchmark: go



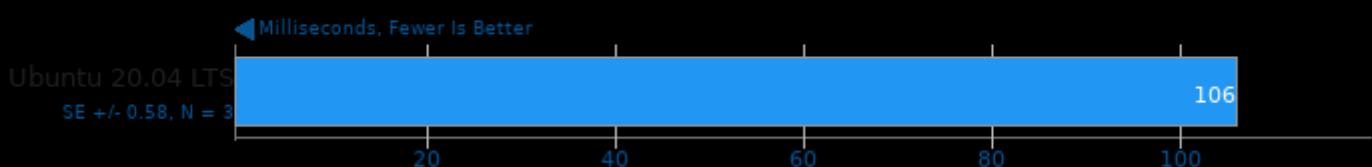
PyPerformance 1.0.0

Benchmark: 2to3



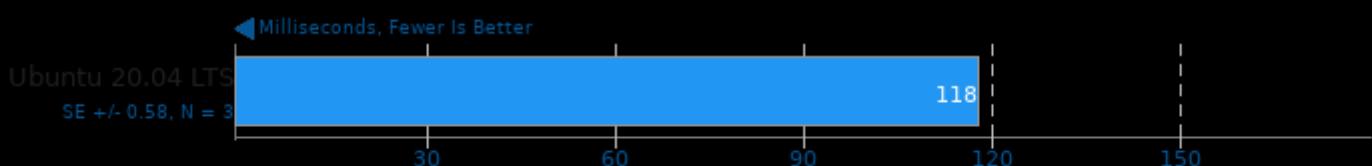
PyPerformance 1.0.0

Benchmark: float



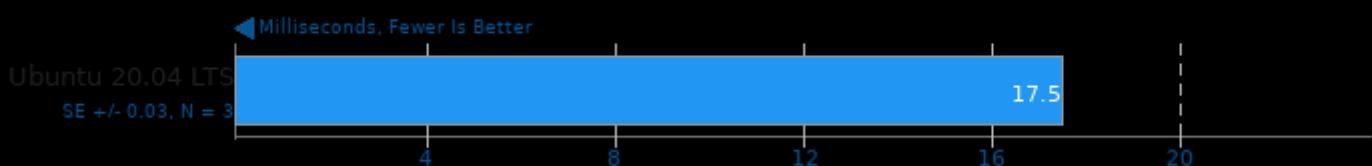
PyPerformance 1.0.0

Benchmark: nbody



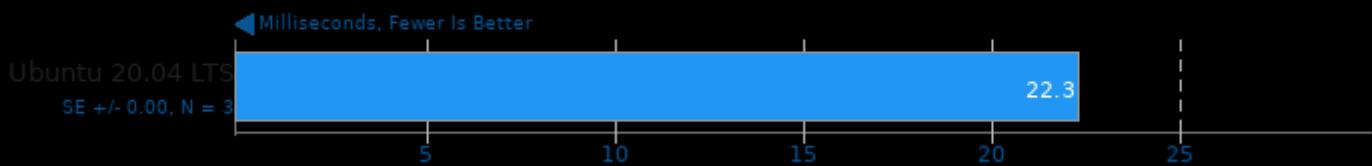
PyPerformance 1.0.0

Benchmark: pathlib



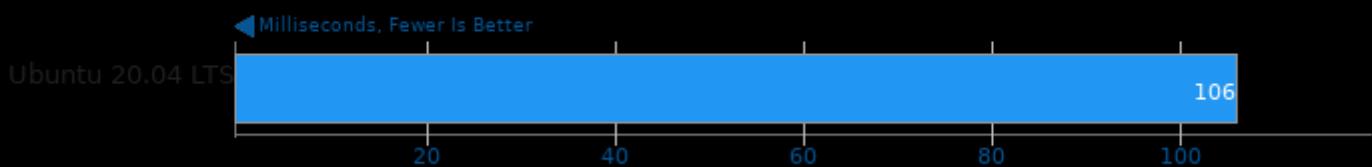
PyPerformance 1.0.0

Benchmark: json_loads



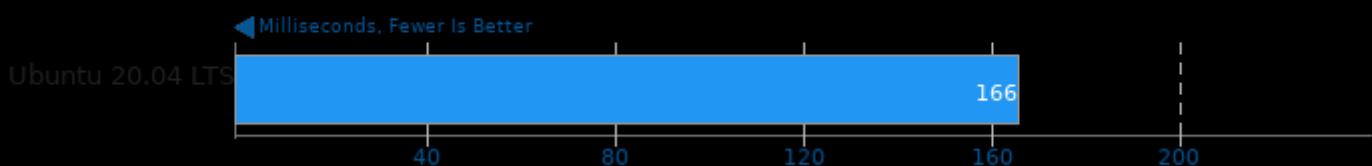
PyPerformance 1.0.0

Benchmark: crypto_pyaes



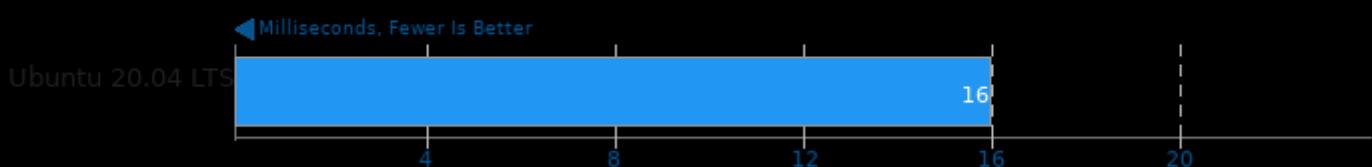
PyPerformance 1.0.0

Benchmark: regex_compile



PyPerformance 1.0.0

Benchmark: python_startup



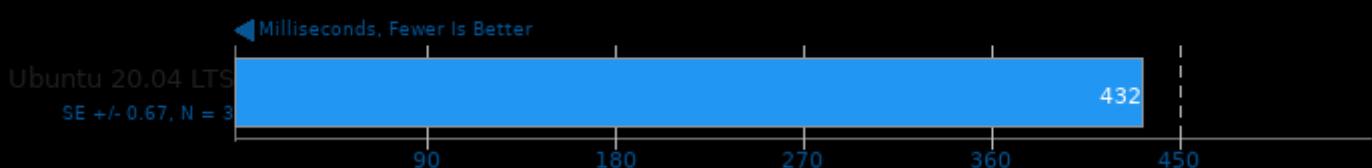
PyPerformance 1.0.0

Benchmark: django_template



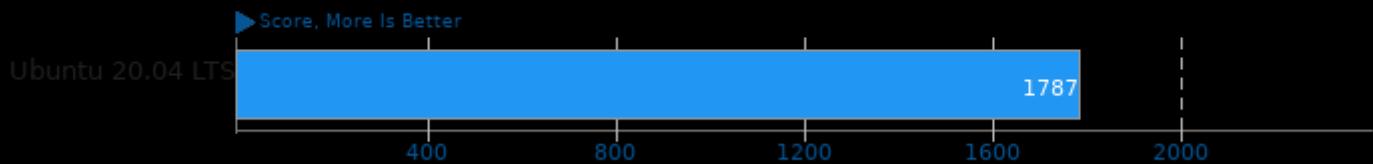
PyPerformance 1.0.0

Benchmark: pickle_pure_python



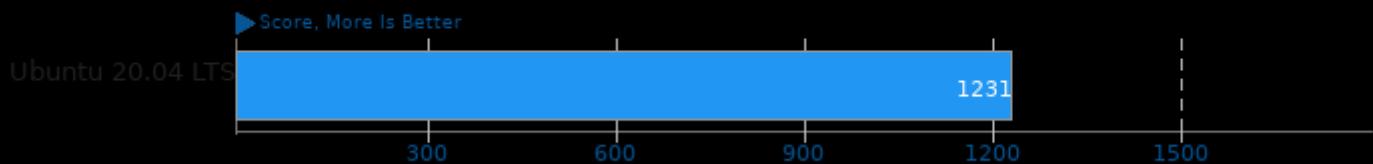
AI Benchmark Alpha 0.1.2

Device Inference Score



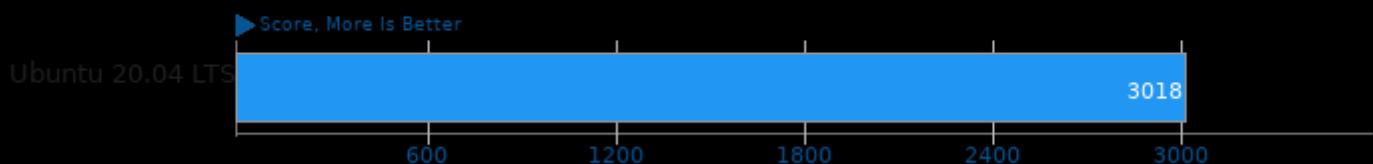
AI Benchmark Alpha 0.1.2

Device Training Score



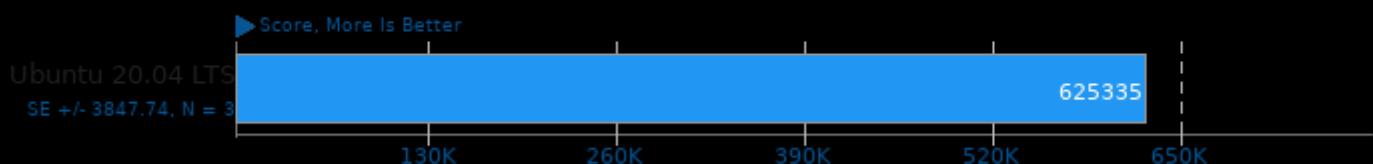
AI Benchmark Alpha 0.1.2

Device AI Score



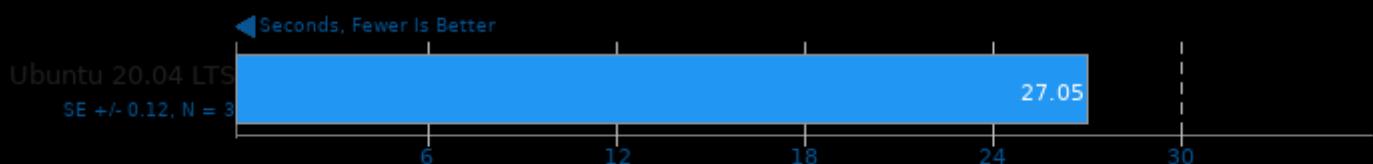
PHPBench 0.8.1

PHP Benchmark Suite



Tesseract OCR 4.1.1

Time To OCR 7 Images



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 12:45.