

www.phoronix-test-suite.com

Clear Linux Daily Tracker - 2019-02-05

A Phoromatic run.

Test Systems:

2019-02-05

Processor: Intel Xeon E3-1260L v5 @ 3.90GHz (4 Cores / 8 Threads), Motherboard: ASRock E3V5 WS (P7.10 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 2 x 4096 MB DDR4-2133MT/s, Disk: 120GB INTEL SSDSC2BW12, Graphics: XFX NVIDIA GeForce GT 220 1GB, Audio: Realtek ALC892, Network: Intel Connection

OS: Clear Linux OS 27630, Kernel: 4.20.6-690.native (x86_64), Desktop: GNOME Shell 3.30.2, Display Server: X Server 1.20.3, Display Driver: modesetting 1.20.3, Compiler: GCC 8.2.1 20190203 + Clang 7.0.1 + LLVM 7.0.1, File-System: ext4

Compiler Notes: --build=x86_64-generic-linux --disable-libmpx --disable-libunwind-exceptions --disable-multiarch --disable-vtable-verify --enable-__cxa_atexit --enable-bootstrap --enable-clocale=gnu --enable-gnu-indirect-function --enable-languages=c,c++,fortran,go --enable-ld=default --enable-libstdcxx-pch --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --exec-prefix=/usr --includedir=/usr/include --target=x86_64-generic-linux --with-arch=westmere --with-glibc-version=2.19 --with-gnu-ld --with-isl --with-ppl=yes --with-tune=haswell
Disk Notes: MQ-DEADLINE / relatime,rw,stripe=256

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Processor Notes: Scaling Governor: intel_pstate performance
Python Notes: Python 3.7.2
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline STIBP: disabled RSB filling + PTE Inversion; VMX: conditional cache flushes SMT vulnerable

	2019-02-05
SQLite - D.T.D (sec)	329.16
Standard Deviation	1.9%
SQLite - T.S.I (sec)	333.40
Standard Deviation	0.9%
SQLite - T.S.I (sec)	114.57
Standard Deviation	2.5%
IOzone - 4Kb - 8GB - Write Performance (MB/s)	489.11
Standard Deviation	0.2%
Compile Bench - Initial Create (MB/s)	560.72
Standard Deviation	9.6%
Sockperf - Throughput (Messages/sec)	472772
Standard Deviation	3.2%
Sockperf - Latency Ping Pong (usec)	3.15
Standard Deviation	3.4%
GNU MPC - M.P.B (Global Score)	9243
Standard Deviation	0.4%
Go Benchmarks - http (ns/op)	8232
Standard Deviation	0.1%
Go Benchmarks - json (ns/op)	14566404
Standard Deviation	0.2%
Go Benchmarks - build (ns/op)	16480196647
Standard Deviation	3%
Go Benchmarks - garbage (ns/op)	2838485
Standard Deviation	0%
DaCapo Benchmark - Jython (msec)	3601
Standard Deviation	1.7%
LuaJIT - Composite (Mflops)	1379
Standard Deviation	0.6%
LuaJIT - Composite (Mflops)	1387
Standard Deviation	0.4%
LuaJIT - F.F.T (Mflops)	295.40
Standard Deviation	0.8%
SciMark - Composite (Mflops)	1713
Standard Deviation	1.3%
TTSIOD 3D Renderer - P.R.W.S.S.M (FPS)	222.86
Standard Deviation	0.5%
SVT-AV1 - 1.8.b.Y.T.A.V.E (FPS)	0.91
Standard Deviation	0.6%
SVT-HEVC - 1.8.b.Y.T.H.V.E (FPS)	81.38
Standard Deviation	1.1%
x264 - H.2.V.E (FPS)	203.57
Standard Deviation	0.2%
x265 - H.2.1.V.E (FPS)	21.40
Standard Deviation	0.3%
GraphicsMagick - Resizing (Iterations/min)	212

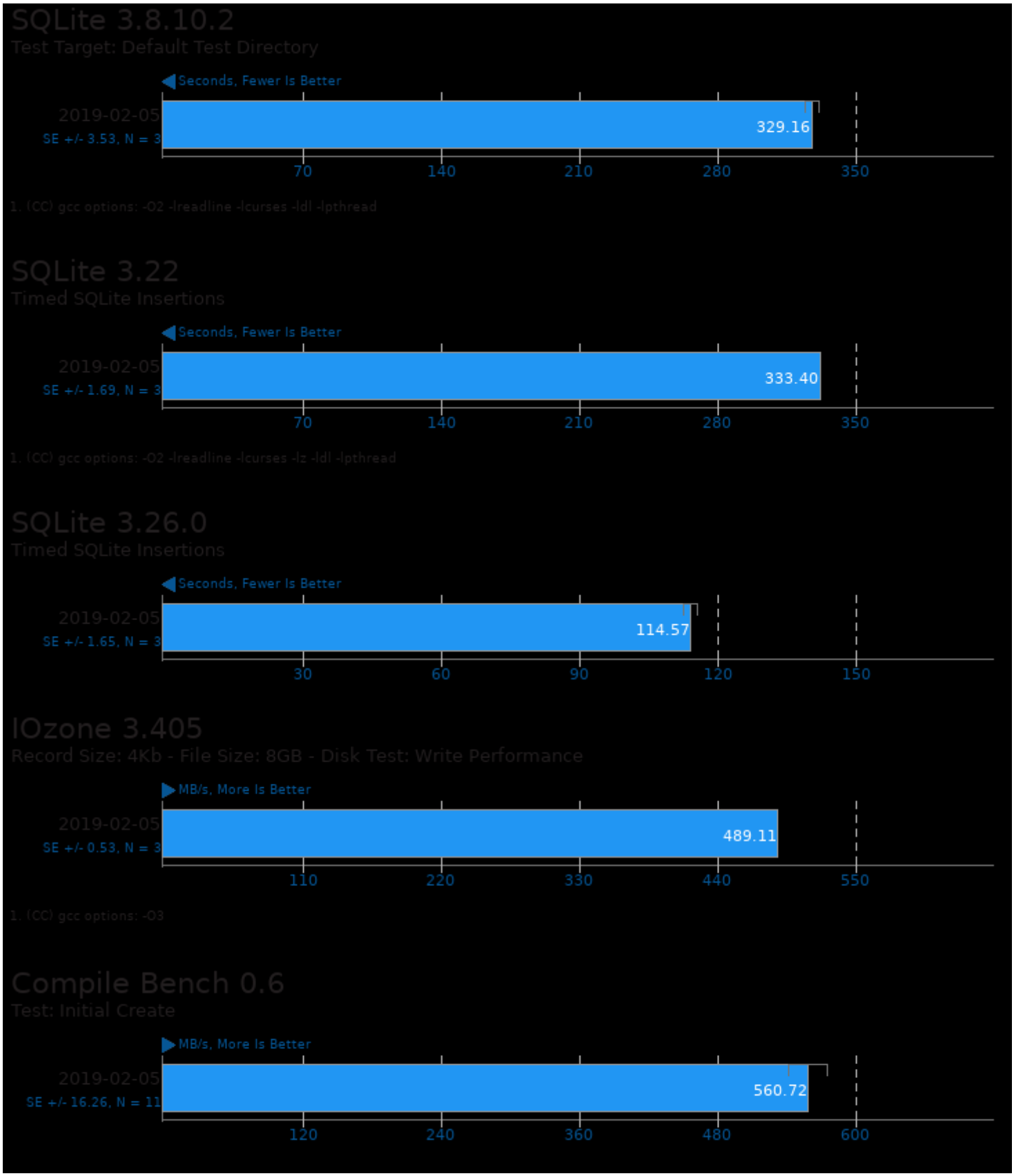
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Himeno Benchmark - P.P.S (MFLOPS)	2430
Standard Deviation	3.2%
7-Zip Compression - C.S.T (MIPS)	24019
Standard Deviation	1.8%
Stockfish - Total Time (Nodes/s)	10465261
Standard Deviation	0.5%
ebizzy (Records/s)	221459
Standard Deviation	7.8%
Timed Linux Kernel Compilation - Time To Compile (sec)	162.22
Standard Deviation	1%
C-Ray - Total Time (sec)	20.98
Standard Deviation	0.1%
Rust Mandelbrot - T.T.C.S.P.M (sec)	74.02
Standard Deviation	0.8%
Rust Prime Benchmark - P.N.T.T.2.0.0 (sec)	26.81
Standard Deviation	0%
Smallpt - G.I.R.1.S (sec)	23
PBZIP2 Compression - 2.F.C (sec)	9.33
Standard Deviation	3.2%
XZ Compression - C.u.1.0.3.s.i.i.C.L.9 (sec)	79.59
Standard Deviation	3.4%
Zstd Compression - C.u.1.0.3.s.i.i.C.L.1 (sec)	107.38
Standard Deviation	0.1%
Cython benchmark (sec)	24.50
Standard Deviation	0.2%
FLAC Audio Encoding - WAV To FLAC (sec)	5.09
Standard Deviation	0.3%
LAME MP3 Encoding - WAV To MP3 (sec)	9.03
Standard Deviation	1%
Hackbench - 1 - Thread (sec)	5.18
Standard Deviation	0.2%
Hackbench - 4 - Process (sec)	19.66
Standard Deviation	0.3%
m-queens - Time To Solve (sec)	206.70
Standard Deviation	0%
Minion - Solitaire (sec)	66.02
Standard Deviation	2%
N-Queens - Elapsed Time (sec)	39.47
Standard Deviation	0%
Perl Benchmarks - Interpreter (sec)	0.00110196
Standard Deviation	0.5%
R Benchmark (sec)	0.1336
Standard Deviation	2%
Zstd Compression - C.u.1.0.3.s.i.i.C.L.1 (sec)	52.13
Standard Deviation	0.2%
OpenSSL - R.4.b.P (Signs/sec)	1043
Standard Deviation	0.7%
Systemd Total Boot Time - Total (ms)	632028
Systemd Total Boot Time - Kernel (ms)	745.10
glibc bench - sqrt (nanoseconds)	2.09
Standard Deviation	0.1%
glibc bench - pthread_once (nanoseconds)	1.83
Standard Deviation	0%

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Tensorflow - Cifar10 (sec)	59.42
Standard Deviation	0.1%
GIMP - resize (sec)	6.83
Standard Deviation	3.2%
Redis - LPUSH (Reqs/sec)	2024097
Standard Deviation	3.4%
Redis - GET (Reqs/sec)	2695510
Standard Deviation	0.7%
Redis - SET (Reqs/sec)	1907652
Standard Deviation	1.9%
PyBench - T.F.A.T.T (Milliseconds)	1022
Standard Deviation	0.3%
NGINX Benchmark - S.W.P.S (Reqs/sec)	39271
Standard Deviation	0.4%
PHPBench - P.B.S (Score)	761070
Standard Deviation	0.1%
Git - T.T.C.C.G.C (sec)	5.36
Standard Deviation	2.2%
Scikit-Learn (sec)	8.47
Standard Deviation	0.4%
OSBench - Create Files (us/Event)	11.58
Standard Deviation	0.6%
OSBench - Create Threads (us/Event)	11.88
Standard Deviation	10.1%
OSBench - Launch Programs (us/Event)	50.74
Standard Deviation	0.9%
OSBench - Memory Allocations (Ns/Event)	56.41
Standard Deviation	0.3%
Schbench - 2 - 6 (usec, 99.9th Latency Percentile)	14932
Standard Deviation	9.9%
Schbench - 4 - 8 (usec, 99.9th Latency Percentile)	45333
Standard Deviation	1.3%

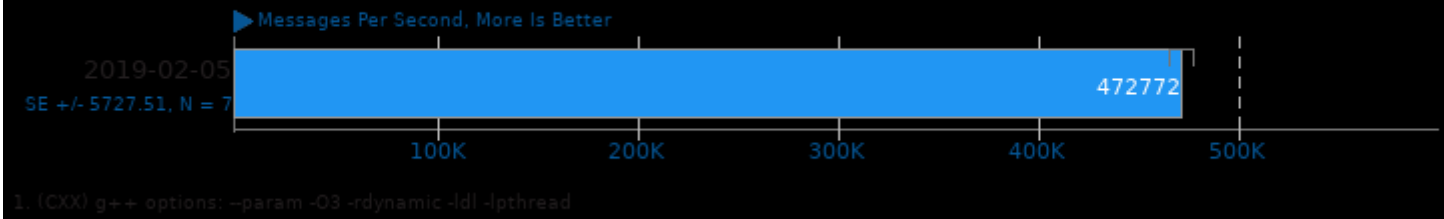
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Sockperf 3.4

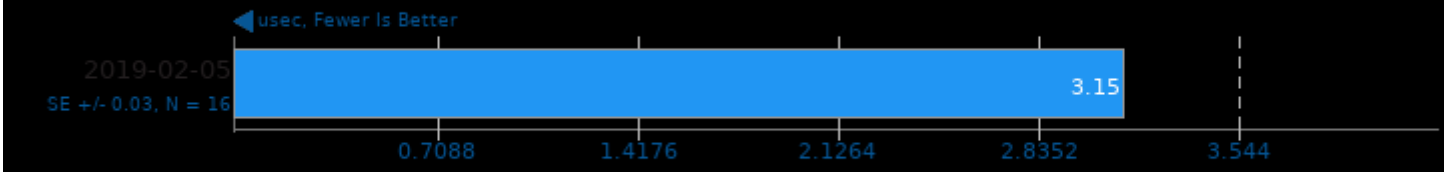
Test: Throughput



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

Sockperf 3.4

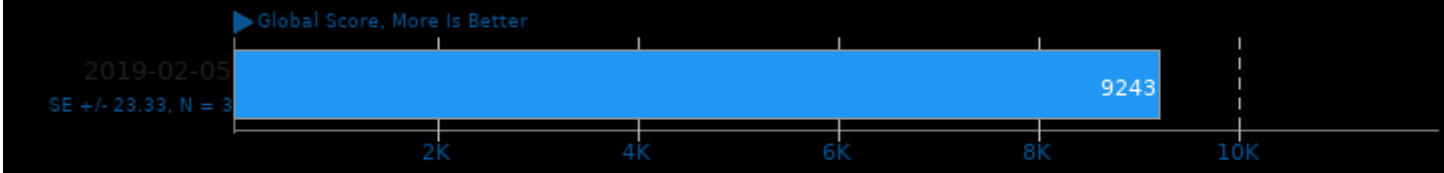
Test: Latency Ping Pong



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

GNU MPC 1.1.0

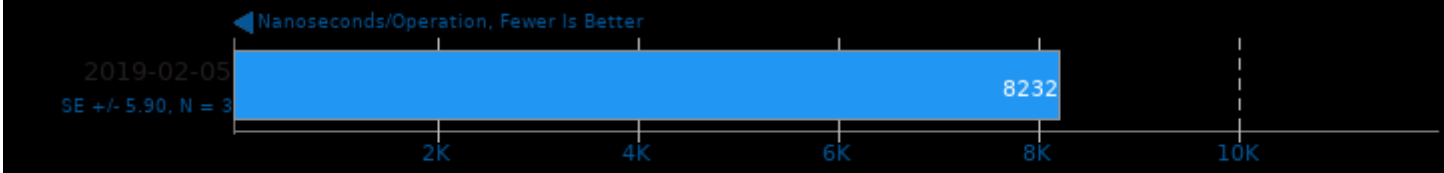
Multi-Precision Benchmark



1. (CC) gcc options: -lm -O2 -pedantic -fomit-frame-pointer -m64 -mtune=skylake -march=broadwell -MT -MD -MP -MF

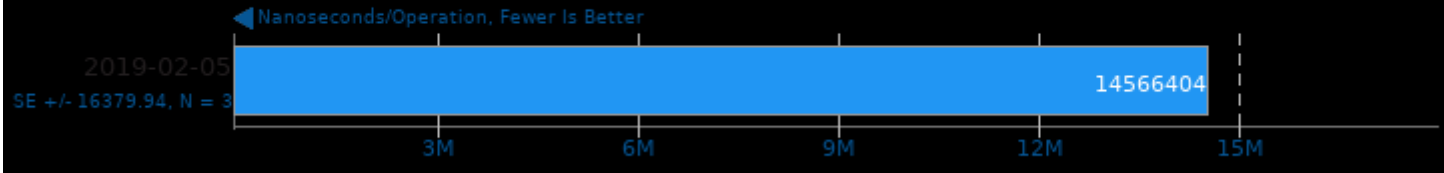
Go Benchmarks

Test: http



Go Benchmarks

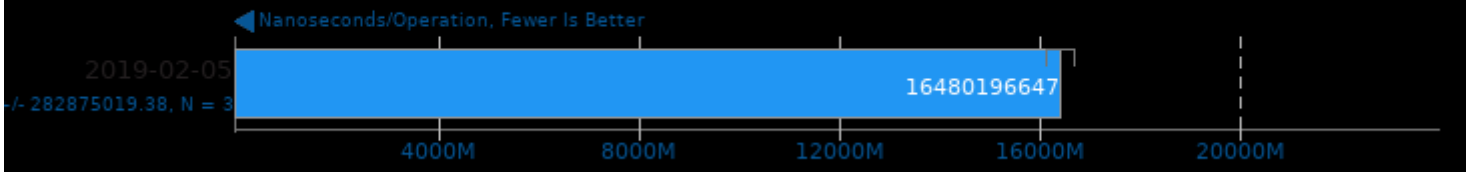
Test: json



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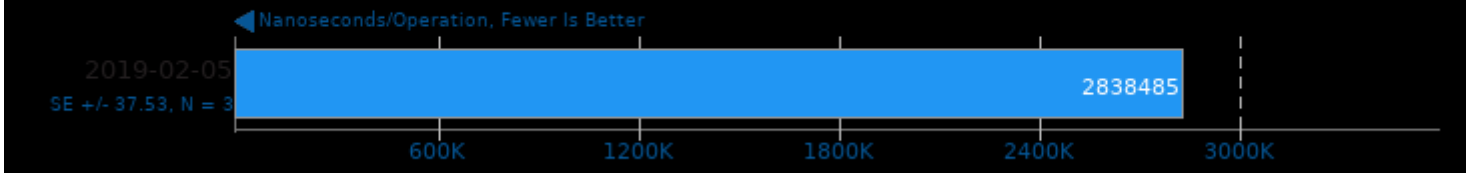
Go Benchmarks

Test: build



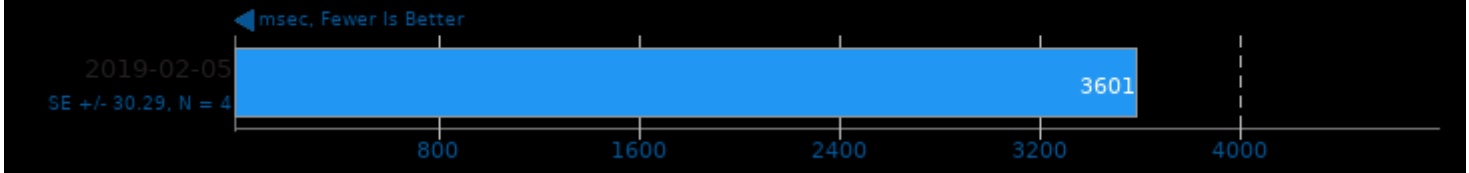
Go Benchmarks

Test: garbage



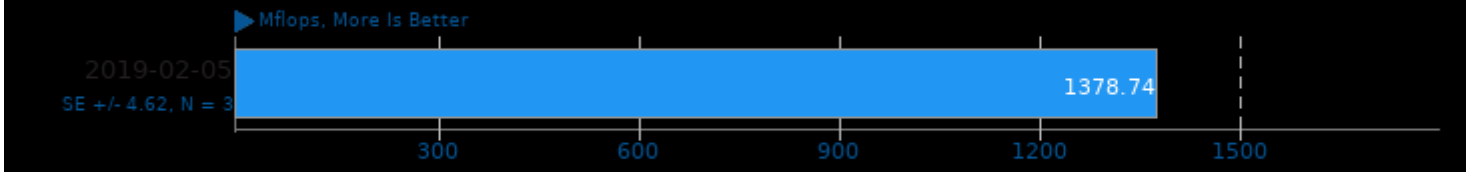
DaCapo Benchmark 9.12-MR1

Java Test: Jython



LuaJIT 2.0.5

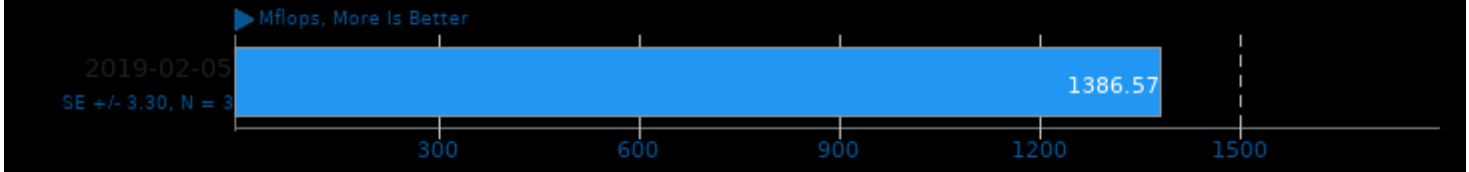
Test: Composite



1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

LuaJIT 2.1-git

Test: Composite

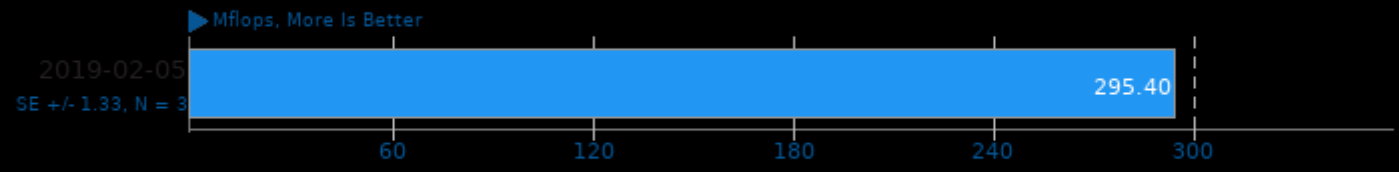


1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

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LuaJIT 2.1-git

Test: Fast Fourier Transform



1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

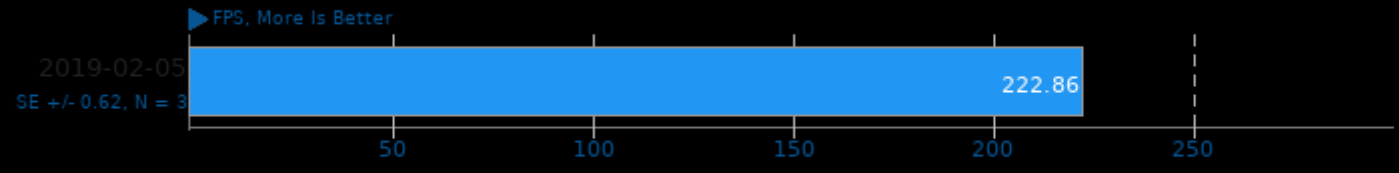
SciMark 2.0

Computational Test: Composite



TTSIOD 3D Renderer 2.3b

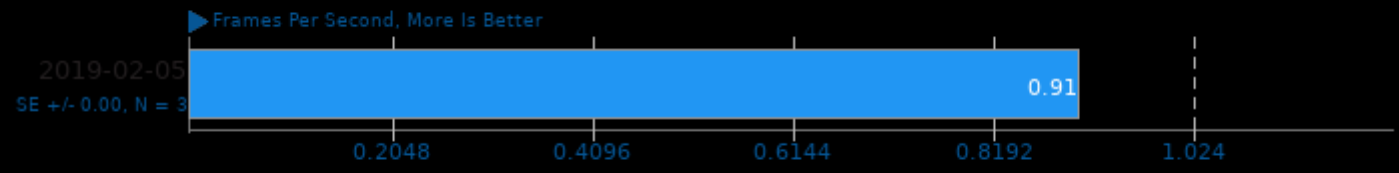
Phong Rendering With Soft-Shadow Mapping



1. (CXX) g++ options: -O3 -fomit-frame-pointer -ffast-math -mtune=native -flto -msse -mrecip -mfpmath=sse -msse2 -mssse3 -lSDL -lpthread -fopenmp

SVT-AV1 2019-02-03

1080p 8-bit YUV To AV1 Video Encode



1. (CC) gcc options: -mavx2 -fPIE -fPIC -O2 -pie -lpthread -lm

SVT-HEVC 2019-02-03

1080p 8-bit YUV To HEVC Video Encode

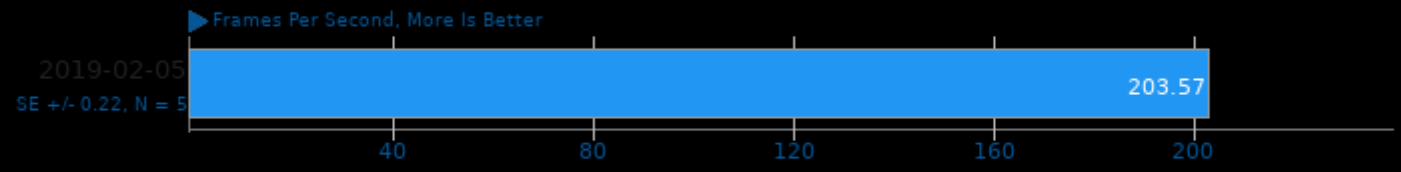


1. (CC) gcc options: -fPIE -fPIC -O2 -flto -fvisibility=hidden -march=native -pie -rdynamic -lpthread -lrt

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x264 2014-08-30

H.264 Video Encoding



1. (CC) gcc options: -ldl -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fomit-frame-pointer -fno-tree-vectorize

x265 3.0

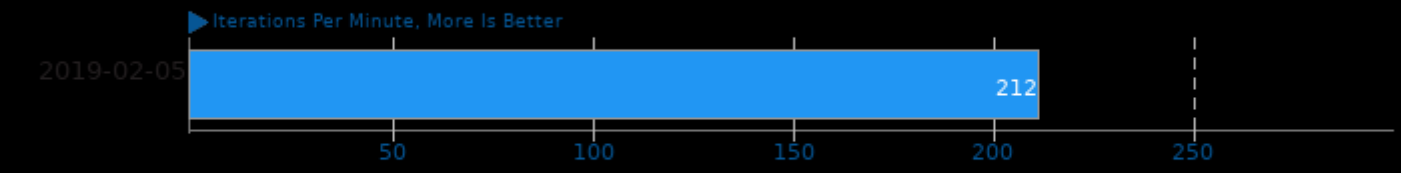
H.265 1080p Video Encoding



1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl -lnuma

GraphicsMagick 1.3.19

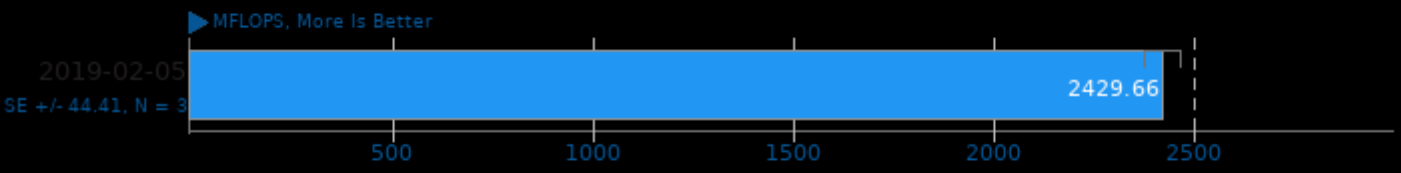
Operation: Resizing



1. (CC) gcc options: -fopenmp -O2 -pthread -lwebp -llcms2 -ltiff -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -llzma -lbz2 -lxml2 -lz -lm -lgomp -lpthread

Himeno Benchmark 3.0

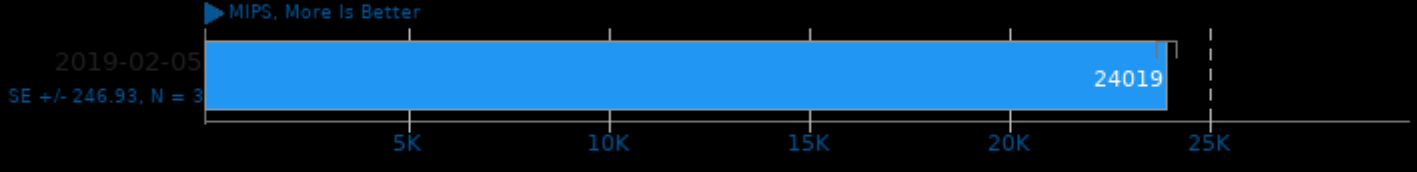
Poisson Pressure Solver



1. (CC) gcc options: -O3

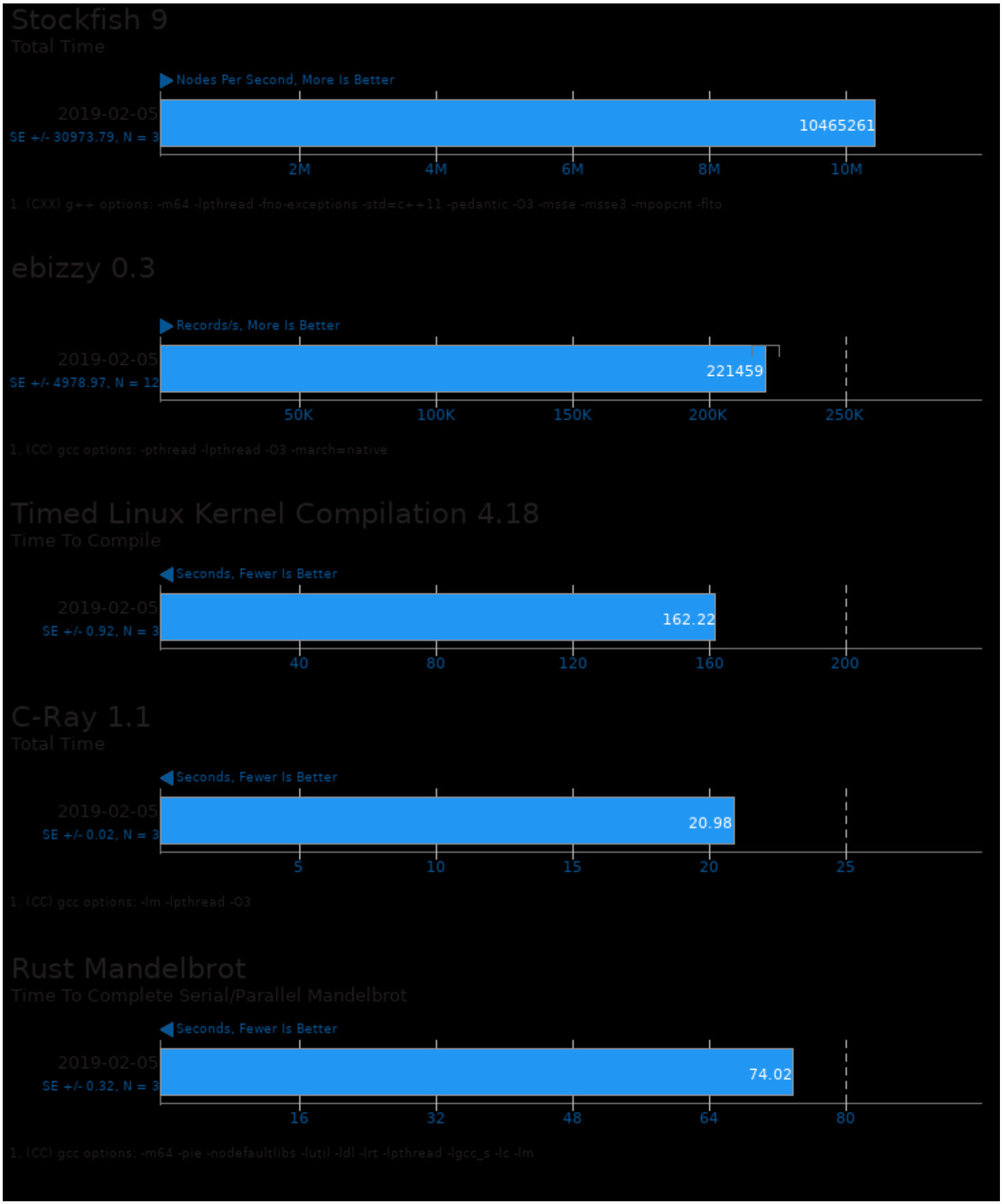
7-Zip Compression 16.02

Compress Speed Test



1. (CXX) g++ options: -pipe -lpthread

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Rust Prime Benchmark

Prime Number Test To 200,000,000



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

Smallpt 1.0

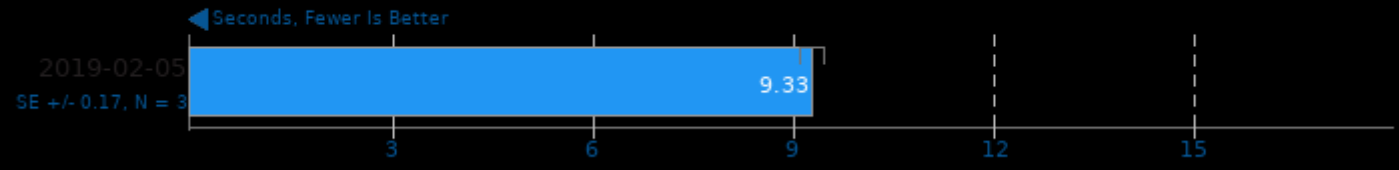
Global Illumination Renderer; 100 Samples



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

PBZIP2 Compression 1.1.12

256MB File Compression



XZ Compression 5.2.4

Compressing ubuntu-16.04.3-server-i386.img, Compression Level 9



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

Zstd Compression 1.3.4

Compressing ubuntu-16.04.3-server-i386.img, Compression Level 19



1. (CC) gcc options: -O3 -pthread -lz -llzma -llz4

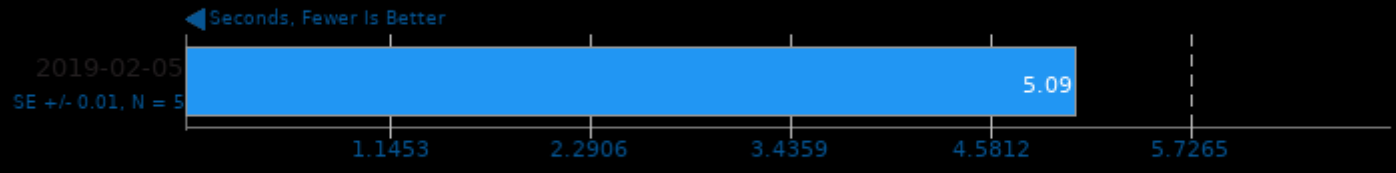
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Cython benchmark 0.27



FLAC Audio Encoding 1.3.1

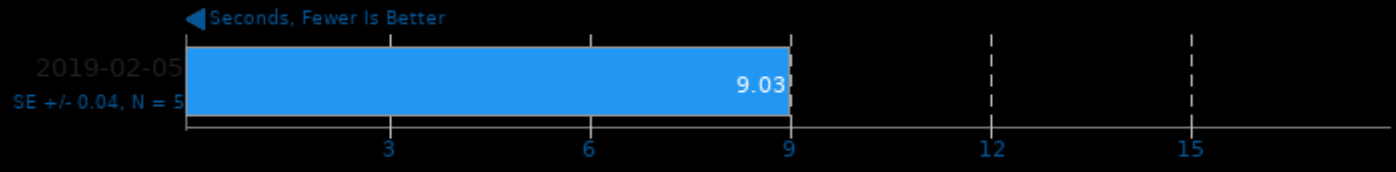
WAV To FLAC



1. (CXX) g++ options: -O2 -fvisibility=hidden -logg -lm

LAME MP3 Encoding 3.99.3

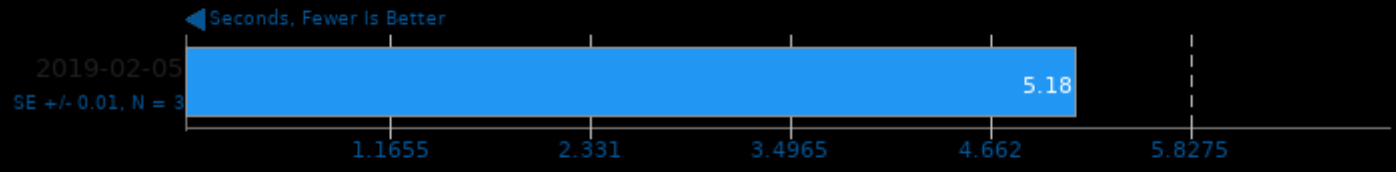
WAV To MP3



1. (CC) gcc options: -O3 -ffast-math -funroll-loops -pipe -lncurses -lm

Hackbench

Count: 1 - Type: Thread



1. (CC) gcc options: -lpthread

Hackbench

Count: 4 - Type: Process

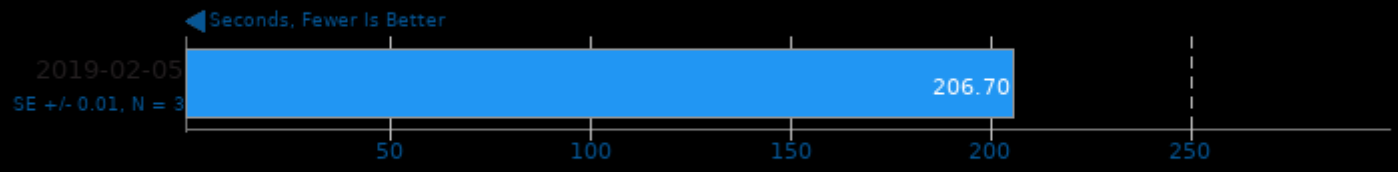


1. (CC) gcc options: -lpthread

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m-queens 1.2

Time To Solve



1. (CXX) g++ options: -fopenmp -O2 -march=native

Minion 1.8

Benchmark: Solitaire



1. (CXX) g++ options: -std=gnu++11 -O3 -fomit-frame-pointer -rdynamic

N-Queens 1.0

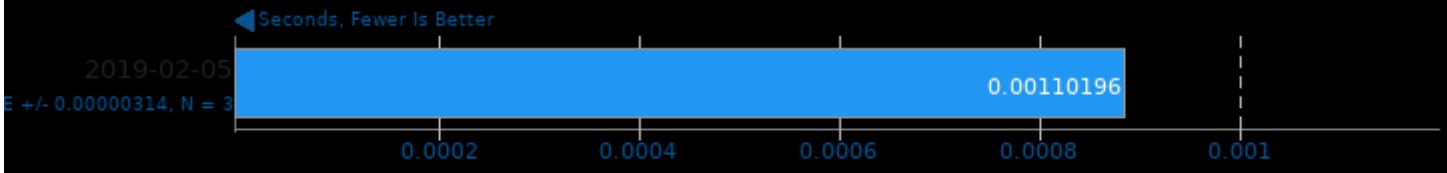
Elapsed Time



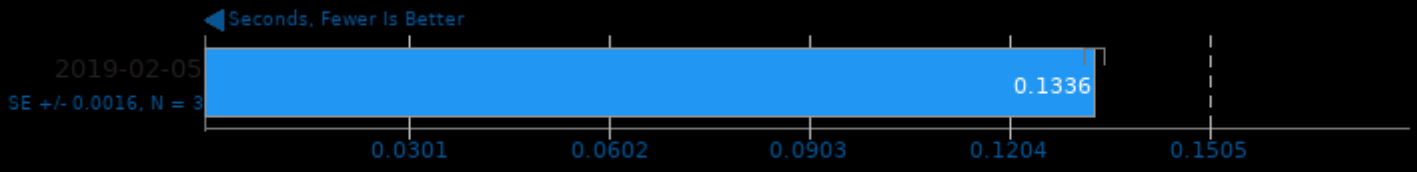
1. (CC) gcc options: -static -fopenmp -O3

Perl Benchmarks

Test: Interpreter



R Benchmark



1. R scripting front-end version 3.5.2 (2018-12-20)

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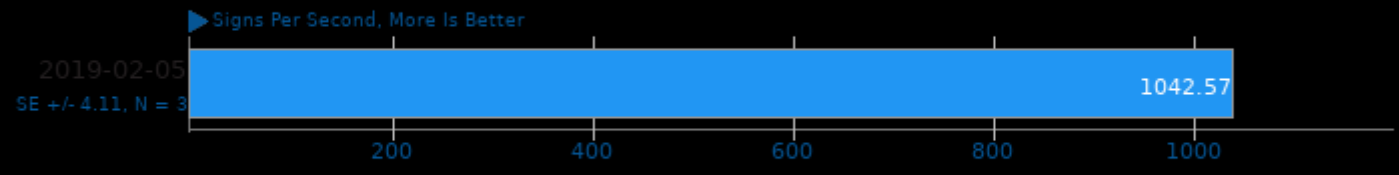
Zstd Compression

Compressing ubuntu-16.04.3-server-i386.img, Compression Level 19



OpenSSL 1.1.0f

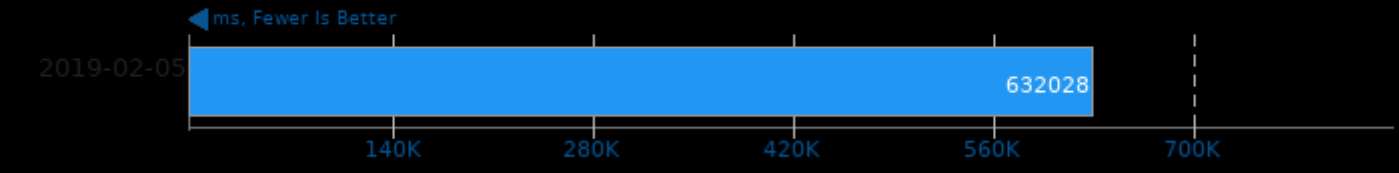
RSA 4096-bit Performance



1. (CC) gcc options: -O3 -pthread -m64 -lssl -lcrypto -ldl

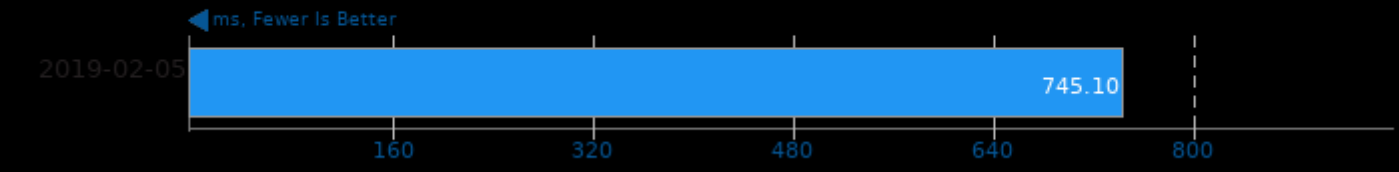
Systemd Total Boot Time

Test: Total



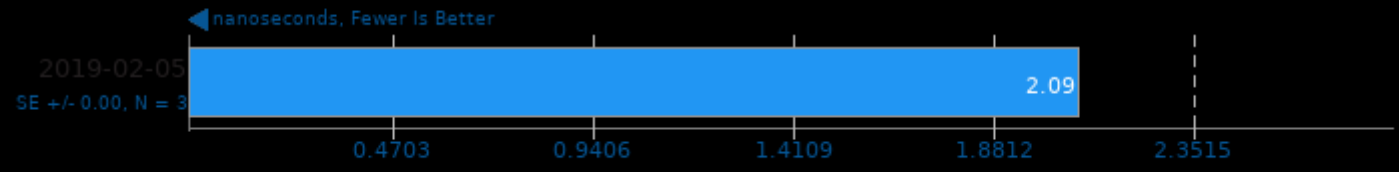
Systemd Total Boot Time

Test: Kernel



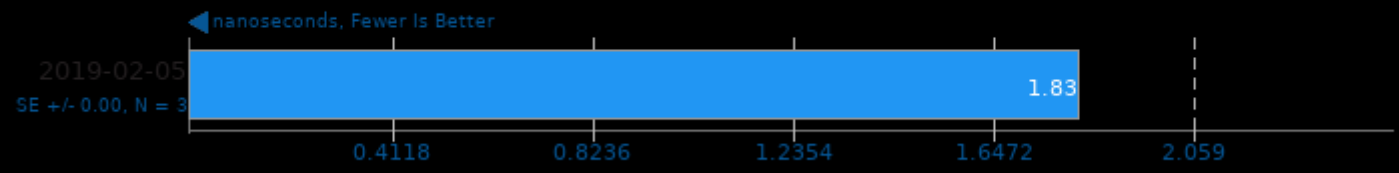
glibc bench 1.0

Benchmark: sqrt

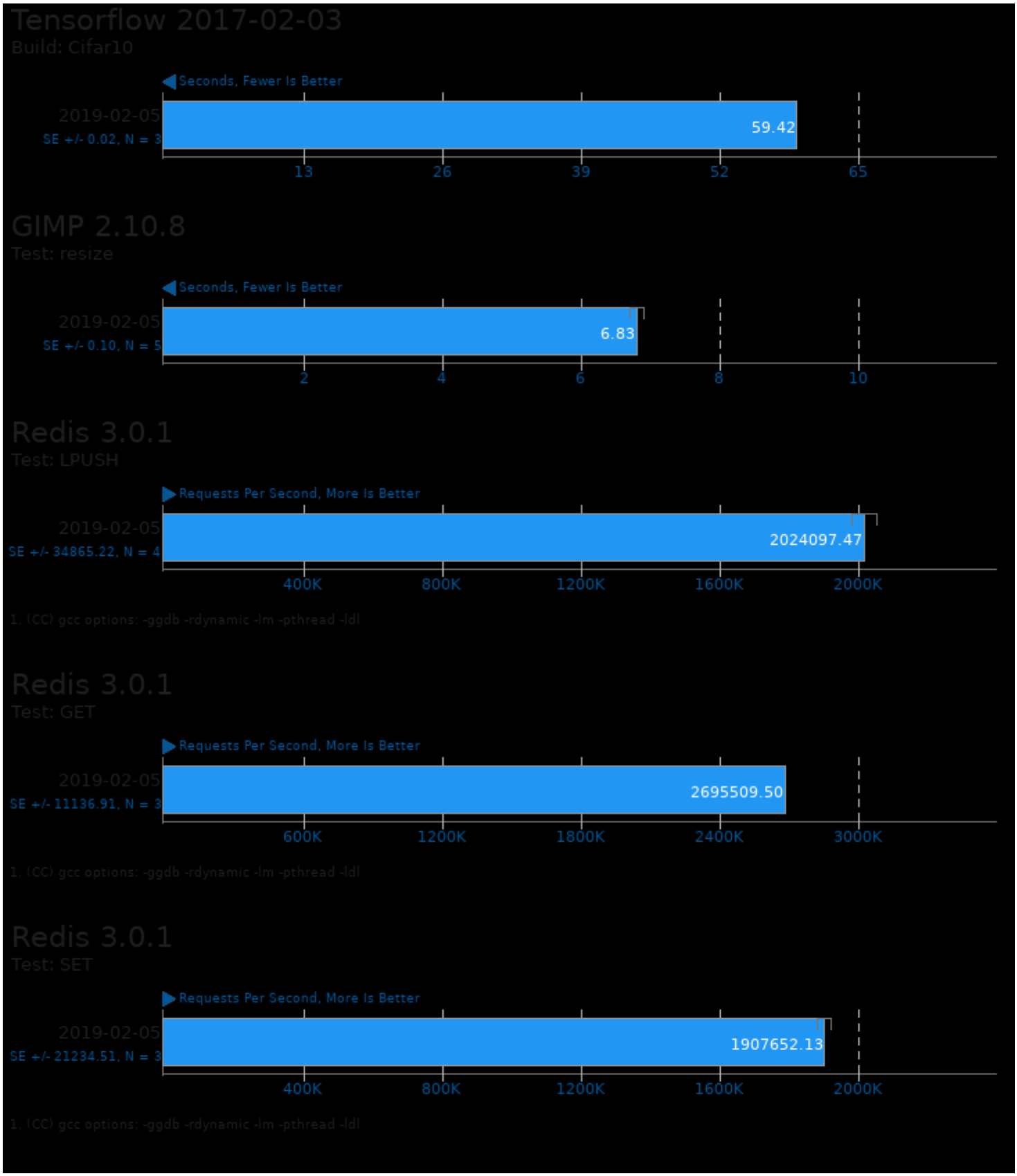


glibc bench 1.0

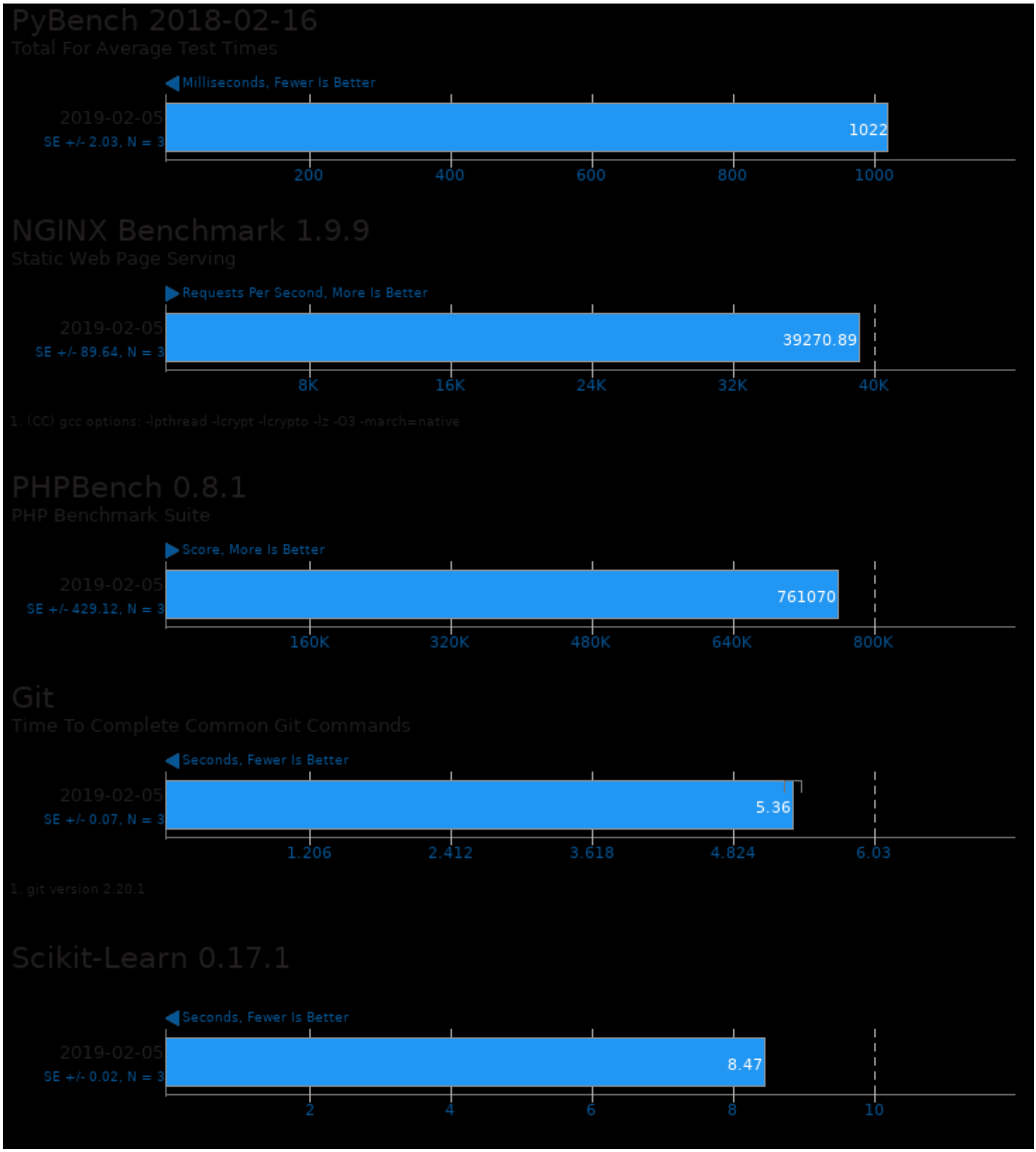
Benchmark: pthread_once



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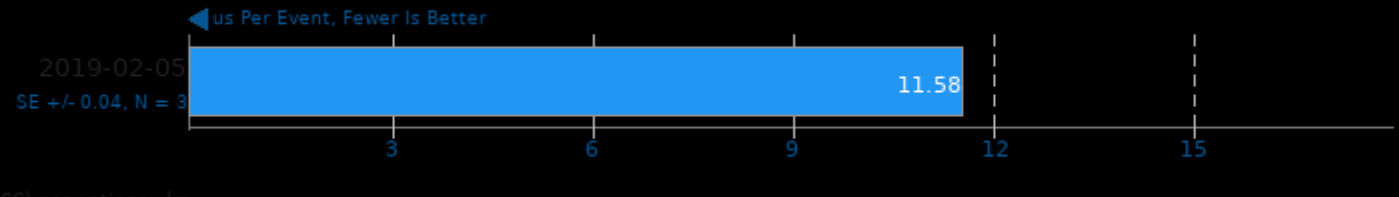


Clear Linux Daily Tracker - 2019-02-05



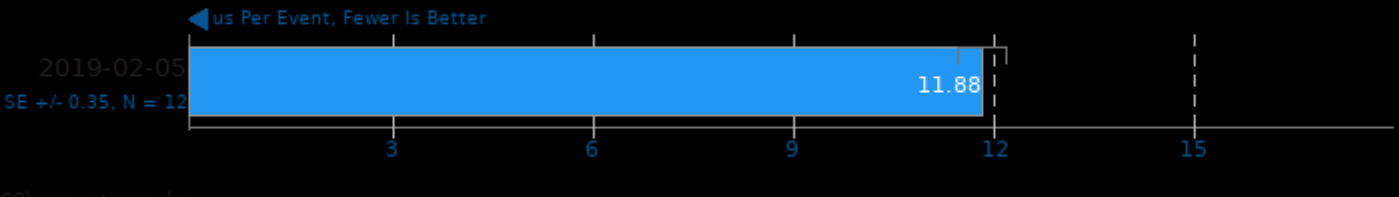
Clear Linux Daily Tracker - 2019-02-05

OSBench
Test: Create Files



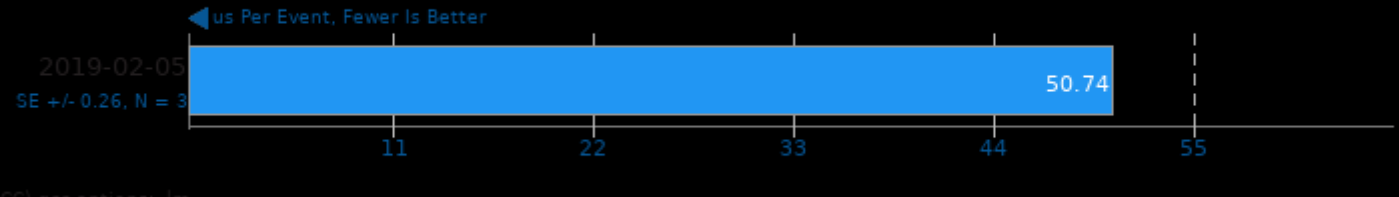
1. (CC) gcc options: -lm

OSBench
Test: Create Threads



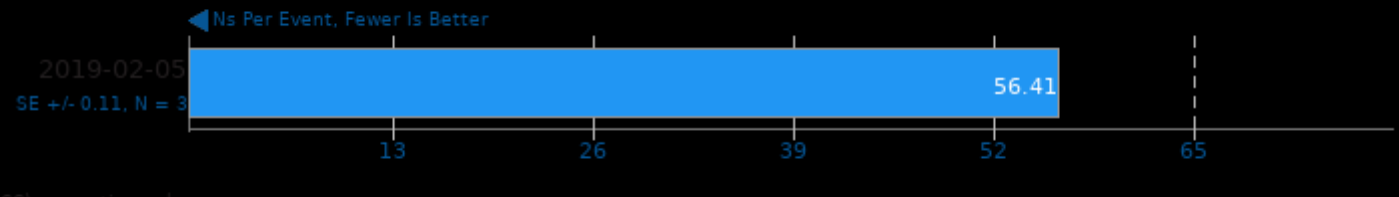
1. (CC) gcc options: -lm

OSBench
Test: Launch Programs



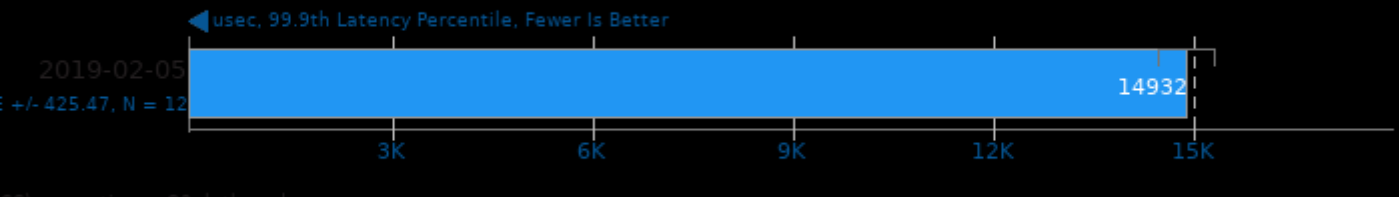
1. (CC) gcc options: -lm

OSBench
Test: Memory Allocations



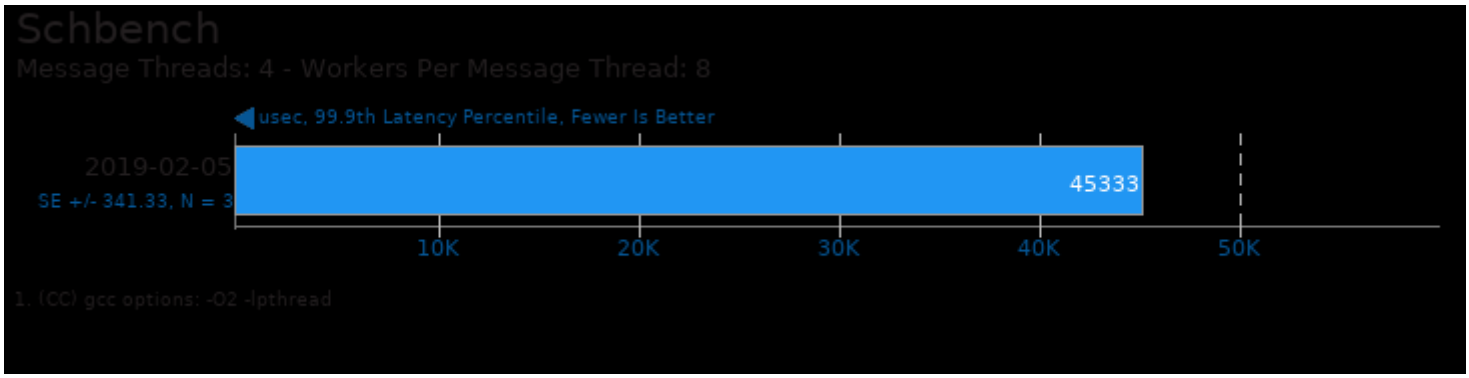
1. (CC) gcc options: -lm

Schbench
Message Threads: 2 - Workers Per Message Thread: 6



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

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 14:40.