

www.phoronix-test-suite.com

Clear Linux Daily Tracker - 2019-02-20

A Phoromatic run.

Test Systems:

2019-02-20

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 I219-LM

OS: Clear Linux OS 27910, Kernel: 4.20.10-699.native (x86_64) 20190218, Desktop: GNOME Shell 3.30.2, Display Server: X Server 1.20.3, Display Driver: modesetting 1.20.3, Compiler: GCC 8.2.1 20190219 + 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

	2019-02-20
SQLite - D.T.D (sec)	326.64
Standard Deviation	1.9%
SQLite - T.S.I (sec)	331.14
Standard Deviation	0.8%
SQLite - T.S.I (sec)	113.88
Standard Deviation	2.7%
IOzone - 4Kb - 8GB - Write Performance (MB/s)	487.13
Standard Deviation	0.5%
Compile Bench - Initial Create (MB/s)	546.85
Standard Deviation	9.5%
Sockperf - Throughput (Messages/sec)	463010
Standard Deviation	3.5%
Sockperf - Latency Ping Pong (usec)	3.18
Standard Deviation	2.4%
GNU MPC - M.P.B (Global Score)	9227
Standard Deviation	0.8%
Go Benchmarks - http (ns/op)	8234
Standard Deviation	0.1%
Go Benchmarks - json (ns/op)	14561755
Standard Deviation	0.3%
Go Benchmarks - build (ns/op)	16140240957
Standard Deviation	2.4%
Go Benchmarks - garbage (ns/op)	2847055
Standard Deviation	0.1%
DaCapo Benchmark - Jython (msec)	3650
Standard Deviation	2.8%
LuaJIT - Composite (Mflops)	1383
Standard Deviation	0.5%
LuaJIT - Composite (Mflops)	1389
Standard Deviation	0.3%
LuaJIT - F.F.T (Mflops)	298.32
Standard Deviation	0.8%
SciMark - Composite (Mflops)	1726
Standard Deviation	0.7%
TTSIOD 3D Renderer - P.R.W.S.S.M (FPS)	223.79
Standard Deviation	0.2%
SVT-AV1 - 1.8.b.Y.T.A.V.E (FPS)	2.66
Standard Deviation	0%
SVT-HEVC - 1.8.b.Y.T.H.V.E (FPS)	81.38
Standard Deviation	1%
SVT-VP9 - 1.8.b.Y.T.V.V.E (FPS)	22.16
Standard Deviation	0.5%
x264 - H.2.V.E (FPS)	204.31
Standard Deviation	0.2%
x265 - H.2.1.V.E (FPS)	21.52

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Standard Deviation	0.5%
GraphicsMagick - Resizing (Iterations/min)	211
Himeno Benchmark - P.P.S (MFLOPS)	2520
Standard Deviation	2.1%
7-Zip Compression - C.S.T (MIPS)	23879
Standard Deviation	1.5%
Stockfish - Total Time (Nodes/s)	10545956
Standard Deviation	0.3%
ebizzy (Records/s)	229805
Standard Deviation	3.5%
Timed Linux Kernel Compilation - Time To Compile (sec)	162.83
Standard Deviation	1.1%
C-Ray - Total Time (sec)	20.98
Standard Deviation	0.1%
Rust Mandelbrot - T.T.C.S.P.M (sec)	74.05
Standard Deviation	0.6%
Rust Prime Benchmark - P.N.T.T.2.0.0 (sec)	26.82
Standard Deviation	0%
Smallpt - G.I.R.1.S (sec)	23
PBZIP2 Compression - 2.F.C (sec)	9.29
Standard Deviation	3.3%
XZ Compression - C.u.1.0.3.s.i.i.C.L.9 (sec)	79.37
Standard Deviation	3.7%
Zstd Compression - C.u.1.0.3.s.i.i.C.L.1 (sec)	107.89
Standard Deviation	0.2%
Cython benchmark (sec)	24.49
Standard Deviation	0.3%
FLAC Audio Encoding - WAV To FLAC (sec)	5.08
Standard Deviation	0.6%
LAME MP3 Encoding - WAV To MP3 (sec)	8.97
Standard Deviation	0.1%
Hackbench - 1 - Thread (sec)	5.18
Standard Deviation	0.3%
Hackbench - 4 - Process (sec)	19.69
Standard Deviation	0.1%
m-queens - Time To Solve (sec)	206.69
Standard Deviation	0%
Minion - Solitaire (sec)	66.65
Standard Deviation	1.2%
N-Queens - Elapsed Time (sec)	39.47
Standard Deviation	0%
Perl Benchmarks - Interpreter (sec)	0.00109532
Standard Deviation	0.5%
R Benchmark (sec)	0.1331
Standard Deviation	2.1%
Zstd Compression - C.u.1.0.3.s.i.i.C.L.1 (sec)	52.06
Standard Deviation	0.4%
OpenSSL - R.4.b.P (Signs/sec)	1048
Standard Deviation	0.2%
Systemd Total Boot Time - Total (ms)	686503
Systemd Total Boot Time - Kernel (ms)	739.20
glibc bench - sqrt (nanoseconds)	2.09
Standard Deviation	0.2%

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glibc bench - pthread_once (nanoseconds)	1.83
Standard Deviation	0.1%
Tensorflow - Cifar10 (sec)	59.57
Standard Deviation	0.6%
GIMP - resize (sec)	6.85
Standard Deviation	3.3%
Redis - LPUSH (Reqs/sec)	2024800
Standard Deviation	2%
Redis - GET (Reqs/sec)	2652945
Standard Deviation	3.3%
Redis - SET (Reqs/sec)	1890142
Standard Deviation	4%
ctx_clock - C.S.T (Clocks)	476
PyBench - T.F.A.T.T (Milliseconds)	1024
Standard Deviation	0.2%
NGINX Benchmark - S.W.P.S (Reqs/sec)	39519
Standard Deviation	0.1%
PHPBench - P.B.S (Score)	759478
Standard Deviation	0.1%
Git - T.T.C.C.G.C (sec)	5.52
Standard Deviation	0.1%
Scikit-Learn (sec)	8.47
Standard Deviation	0.5%
OSBench - Create Files (us/Event)	11.47
Standard Deviation	0.4%
OSBench - Create Threads (us/Event)	10.89
Standard Deviation	0.5%
OSBench - Launch Programs (us/Event)	49.68
Standard Deviation	0.7%
OSBench - Memory Allocations (Ns/Event)	56.59
Standard Deviation	0.2%
Schbench - 2 - 6 (usec, 99.9th Latency Percentile)	15479
Standard Deviation	16.8%
Schbench - 4 - 8 (usec, 99.9th Latency Percentile)	44992
Standard Deviation	2.3%

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SQLite 3.8.10.2

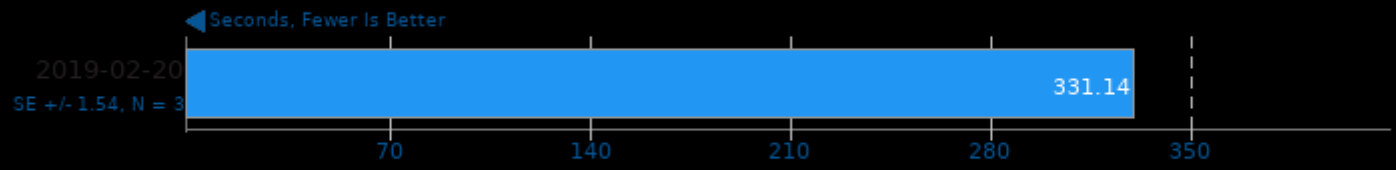
Test Target: Default Test Directory



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

SQLite 3.22

Timed SQLite Insertions



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

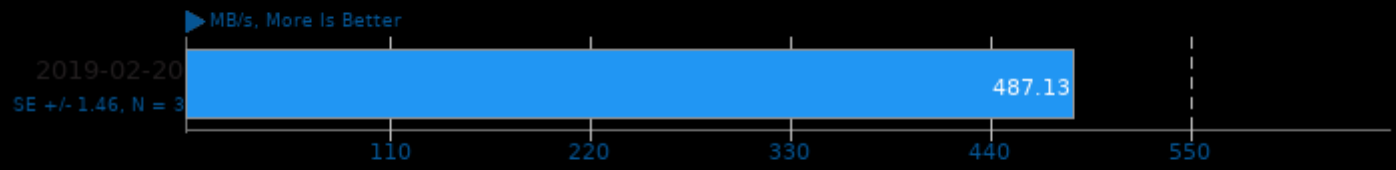
SQLite 3.27.1

Timed SQLite Insertions



IOzone 3.405

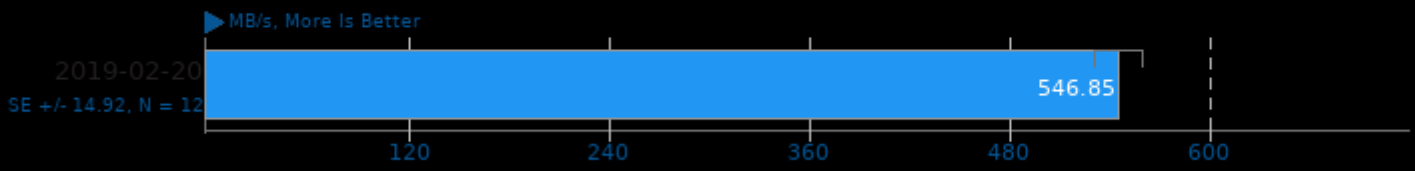
Record Size: 4Kb - File Size: 8GB - Disk Test: Write Performance



1. (CC) gcc options: -O3

Compile Bench 0.6

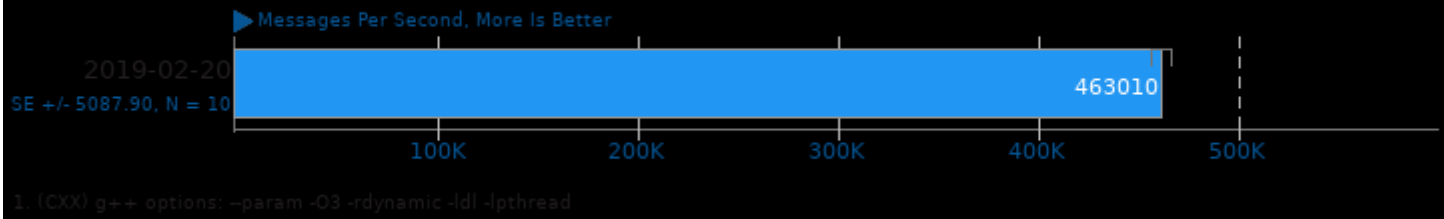
Test: Initial Create



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Sockperf 3.4

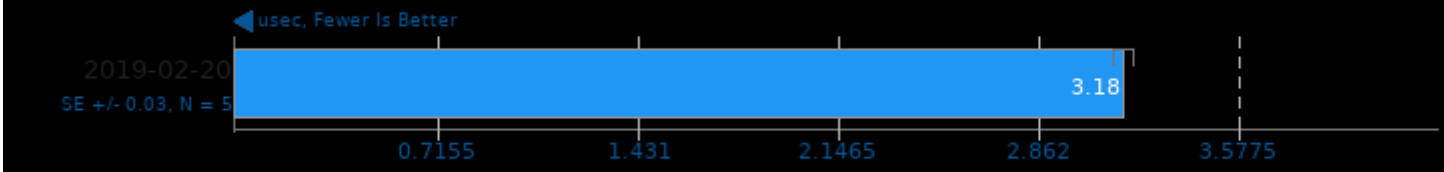
Test: Throughput



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

Sockperf 3.4

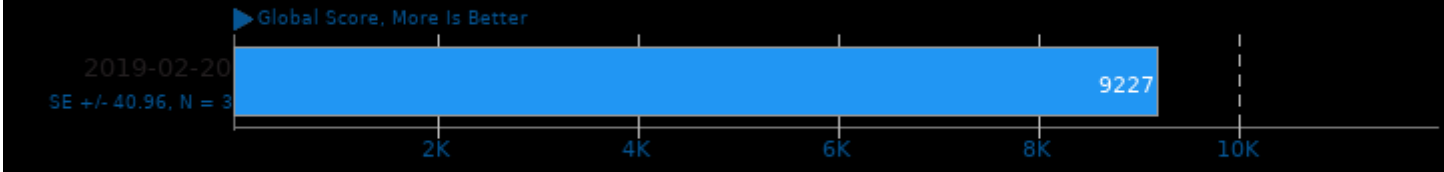
Test: Latency Ping Pong



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

GNU MPC 1.1.0

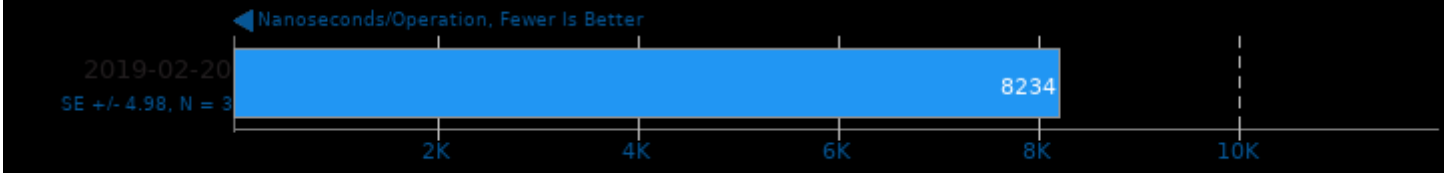
Multi-Precision Benchmark



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

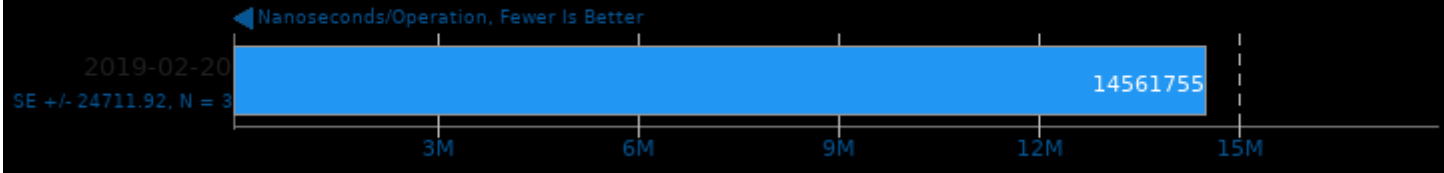
Go Benchmarks

Test: http

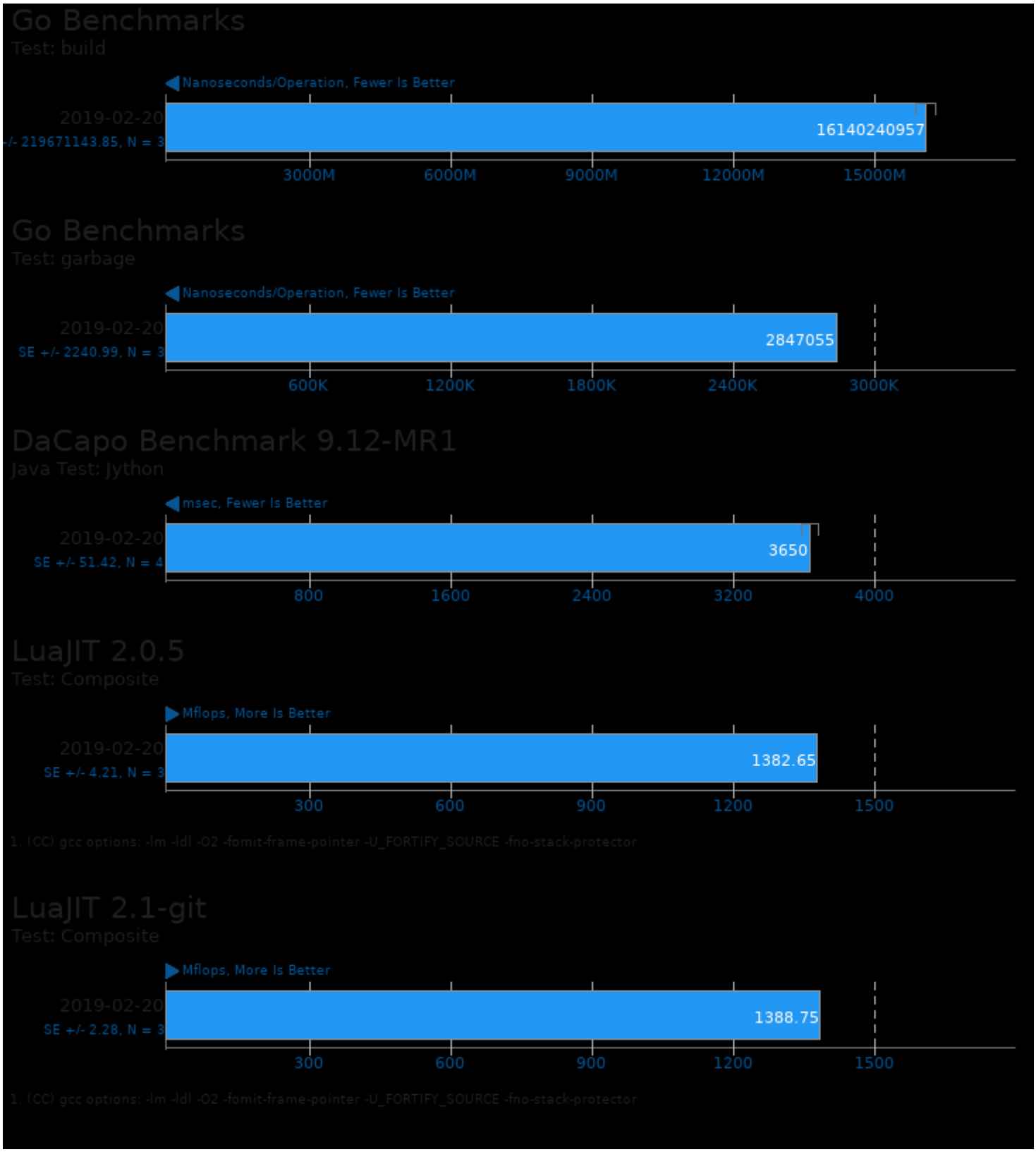


Go Benchmarks

Test: json



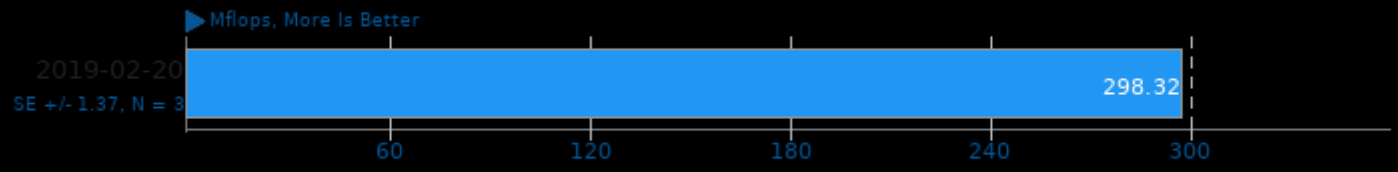
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LuaJIT 2.1-git

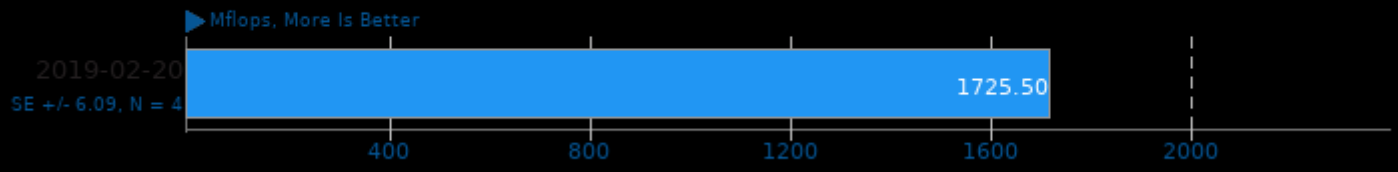
Test: Fast Fourier Transform



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

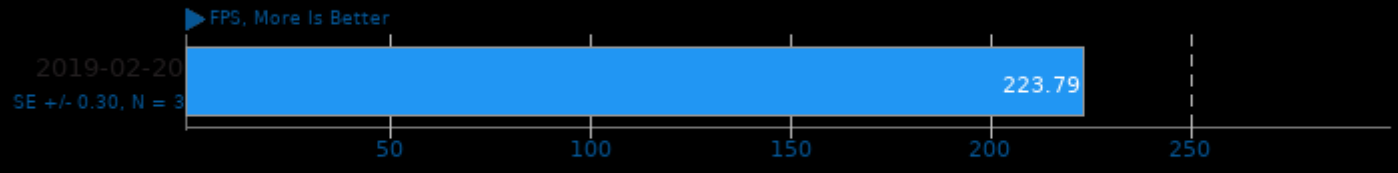
SciMark 2.0

Computational Test: Composite



TTSIOD 3D Renderer 2.3b

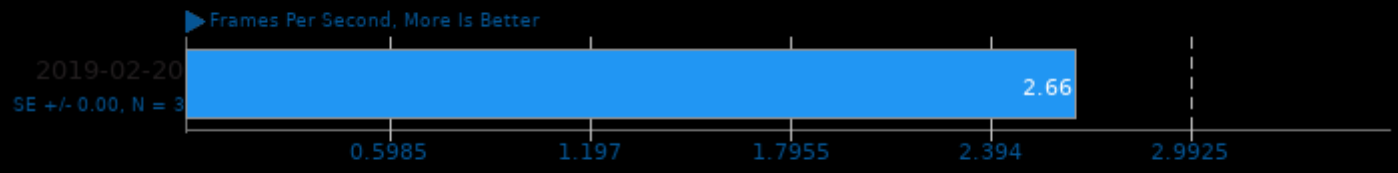
Phong Rendering With Soft-Shadow Mapping



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

SVT-AV1 2019-02-15

1080p 8-bit YUV To AV1 Video Encode



1. (CC) gcc options: -mavx -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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SVT-VP9 2019-02-17

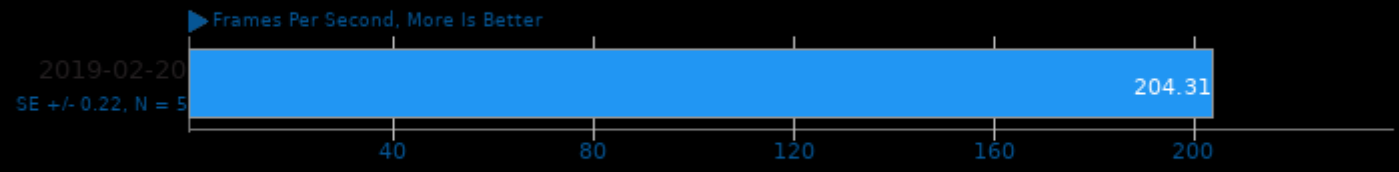
1080p 8-bit YUV To VP9 Video Encode



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

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

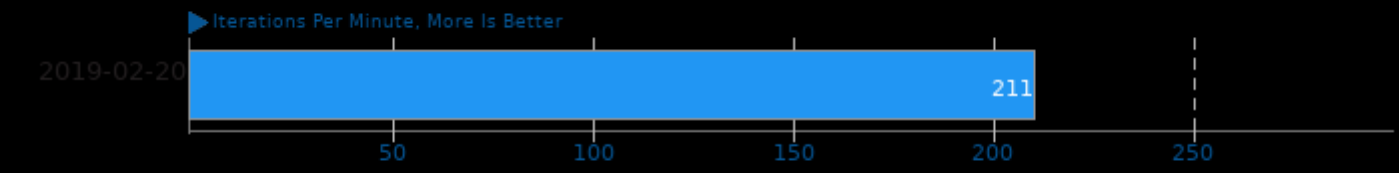
H.265 1080p Video Encoding



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

GraphicsMagick 1.3.19

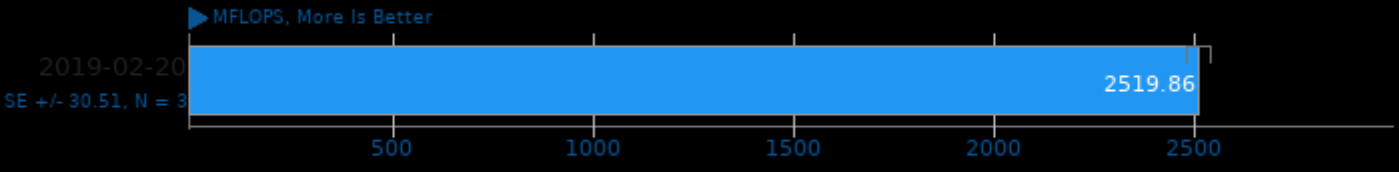
Operation: Resizing



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

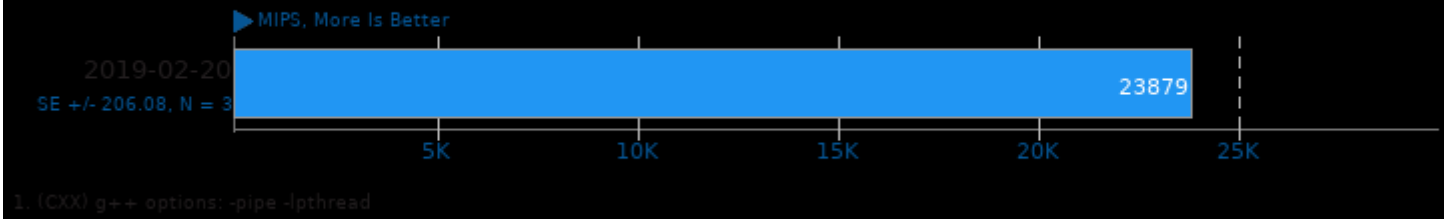


1. (CC) gcc options: -O3

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7-Zip Compression 16.02

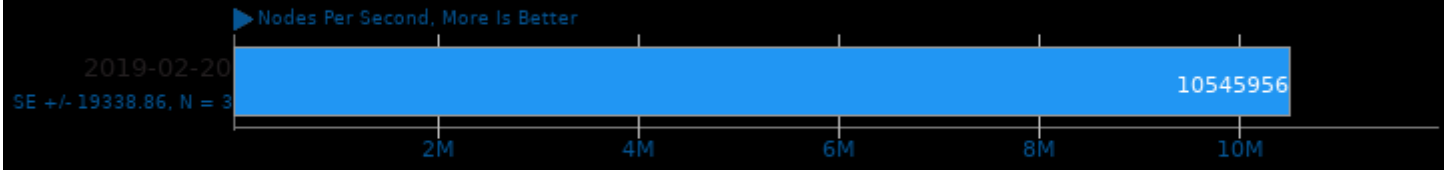
Compress Speed Test



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

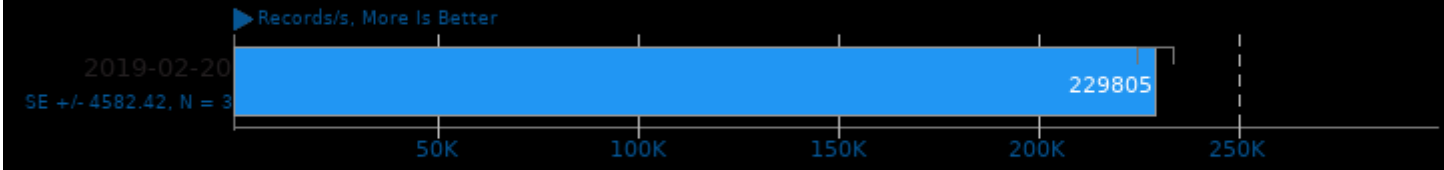
Stockfish 9

Total Time



1. (CXX) g++ options: -m64 -lpthread -fno-exceptions -std=c++11 -pedantic -O3 -msse -msse3 -mpopcnt -flto

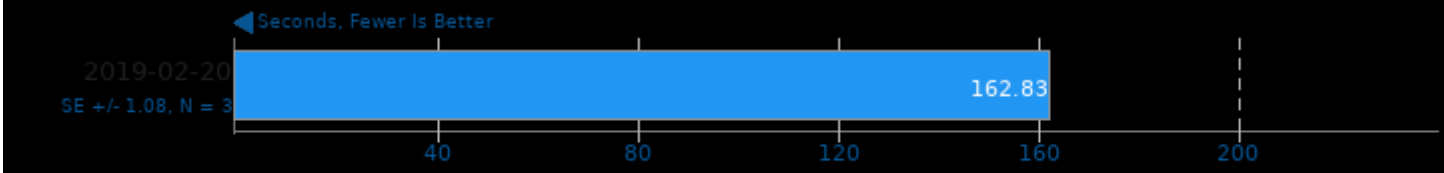
ebizzy 0.3



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

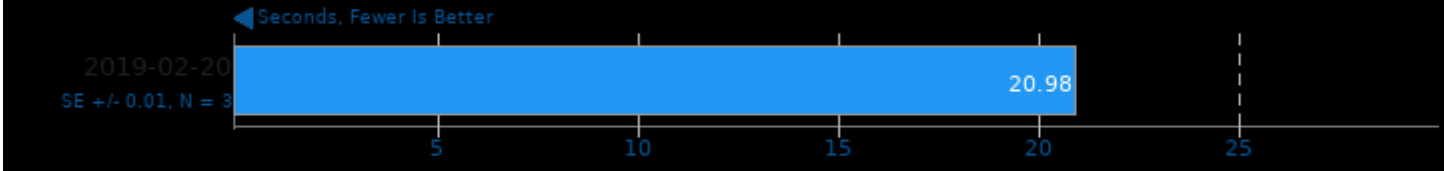
Timed Linux Kernel Compilation 4.18

Time To Compile



C-Ray 1.1

Total Time



1. (CC) gcc options: -lm -lpthread -O3

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Rust Mandelbrot

Time To Complete Serial/Parallel Mandelbrot



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

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

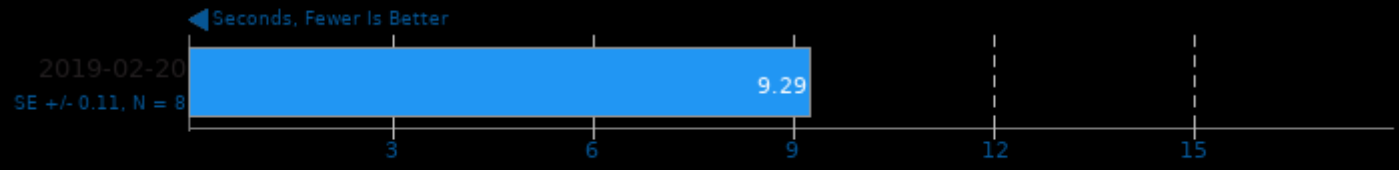
Global Illumination Renderer; 100 Samples



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

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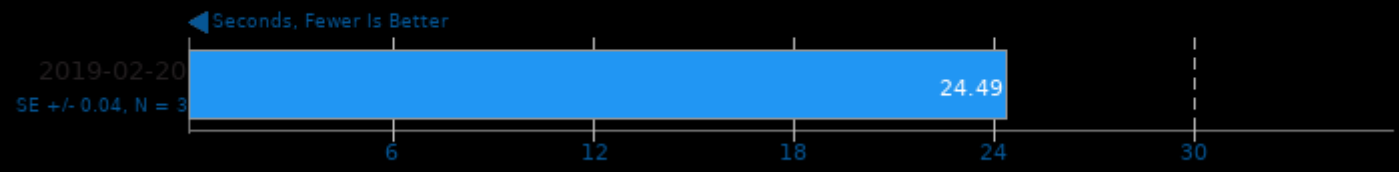
Zstd Compression 1.3.4

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



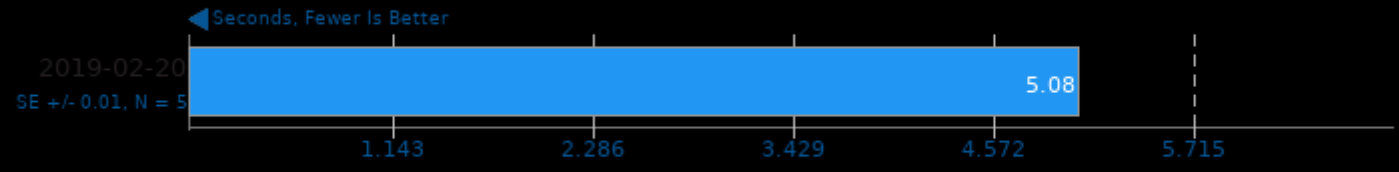
1. (CC) gcc options: -O3 -pthread -lz -llzma -llz4

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

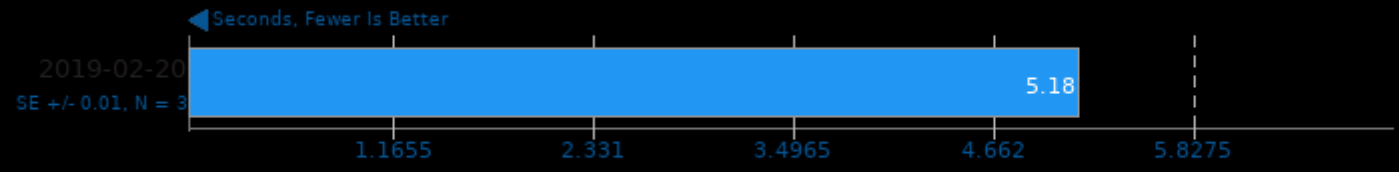
WAV To MP3



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

Hackbench

Count: 1 - Type: Thread

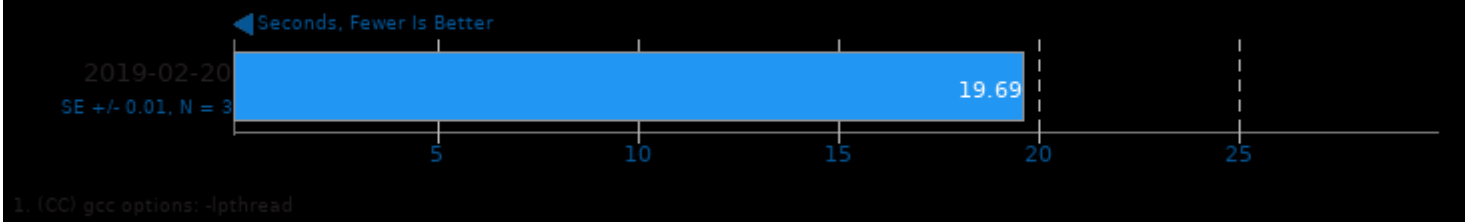


1. (CC) gcc options: -lpthread

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Hackbench

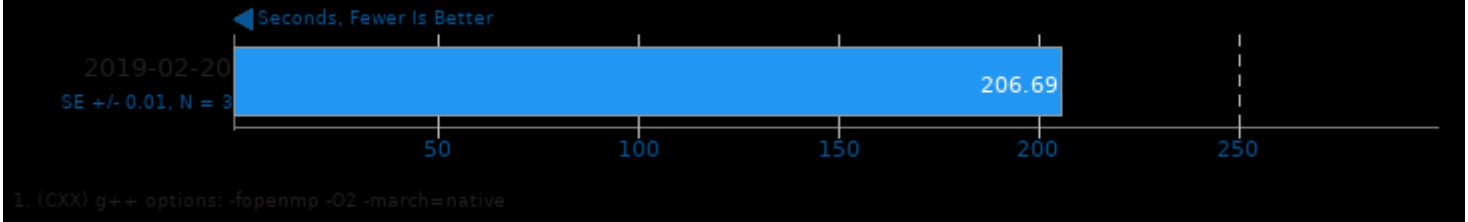
Count: 4 - Type: Process



1. (CC) gcc options: -lpthread

m-queens 1.2

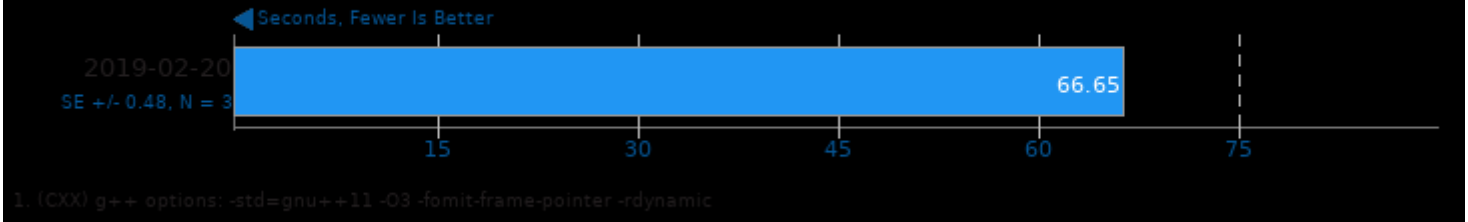
Time To Solve



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

Minion 1.8

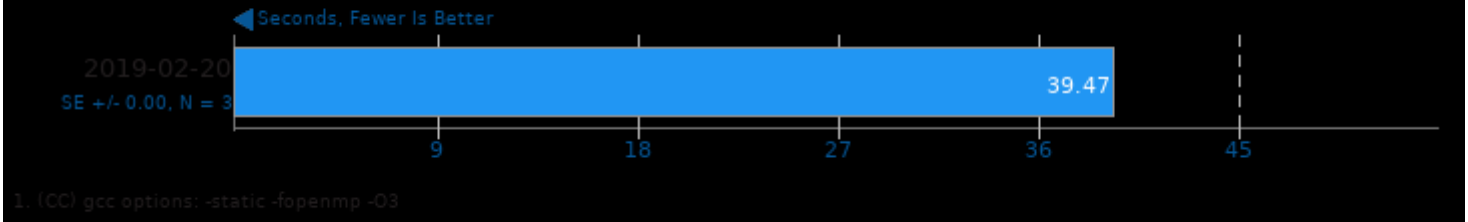
Benchmark: Solitaire



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

N-Queens 1.0

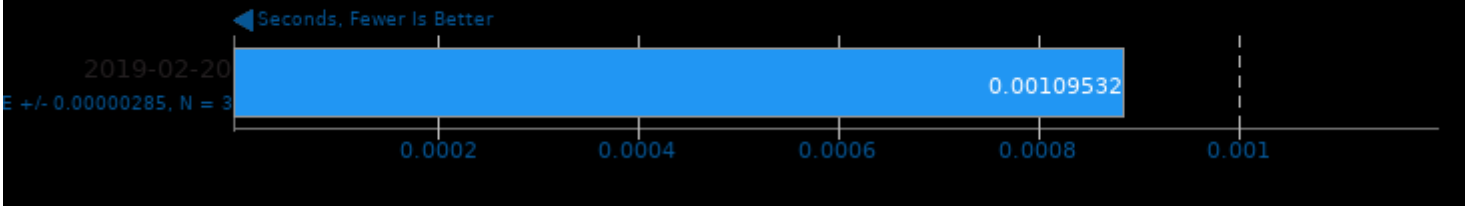
Elapsed Time



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

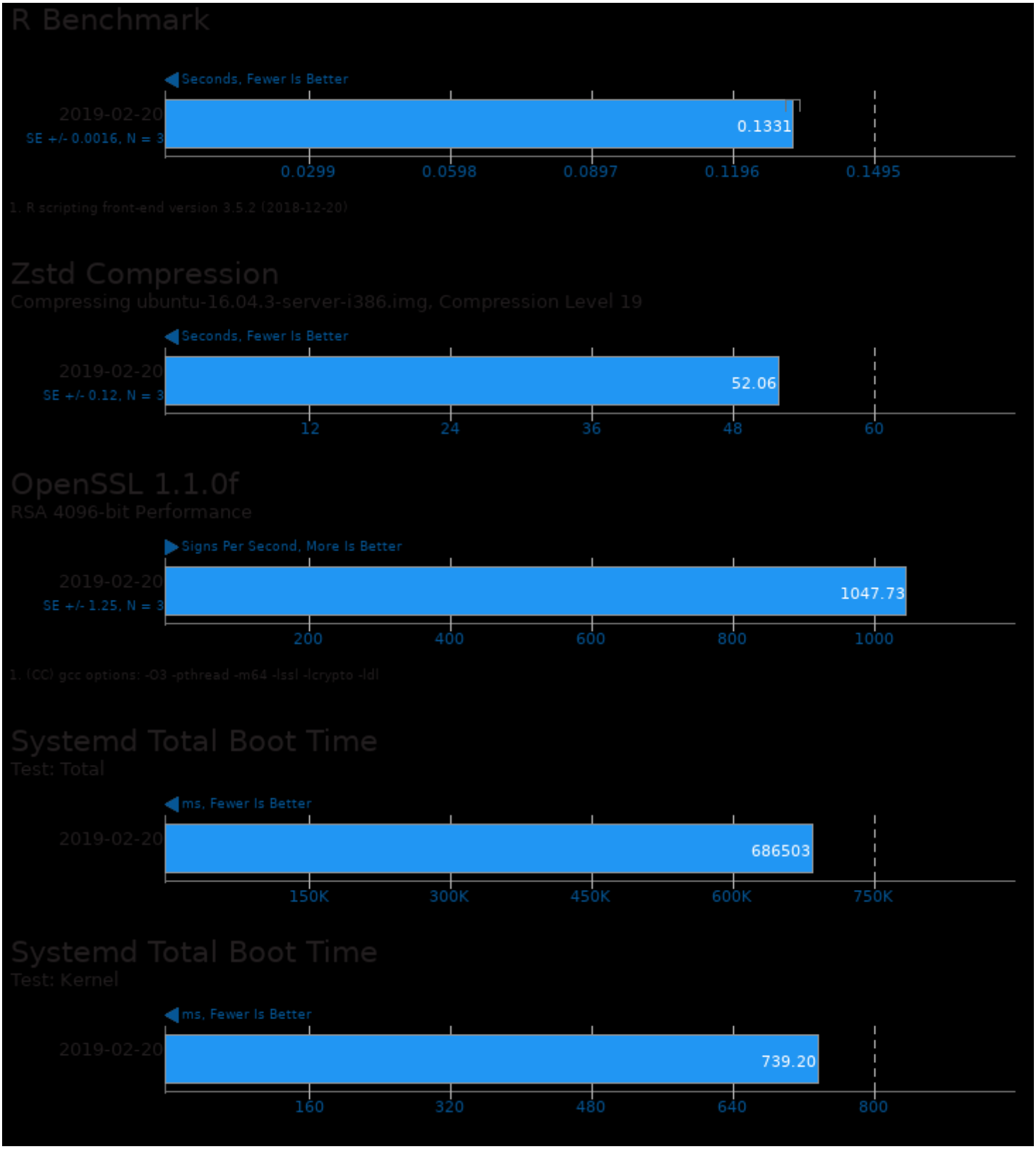
Perl Benchmarks

Test: Interpreter



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R Benchmark



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

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

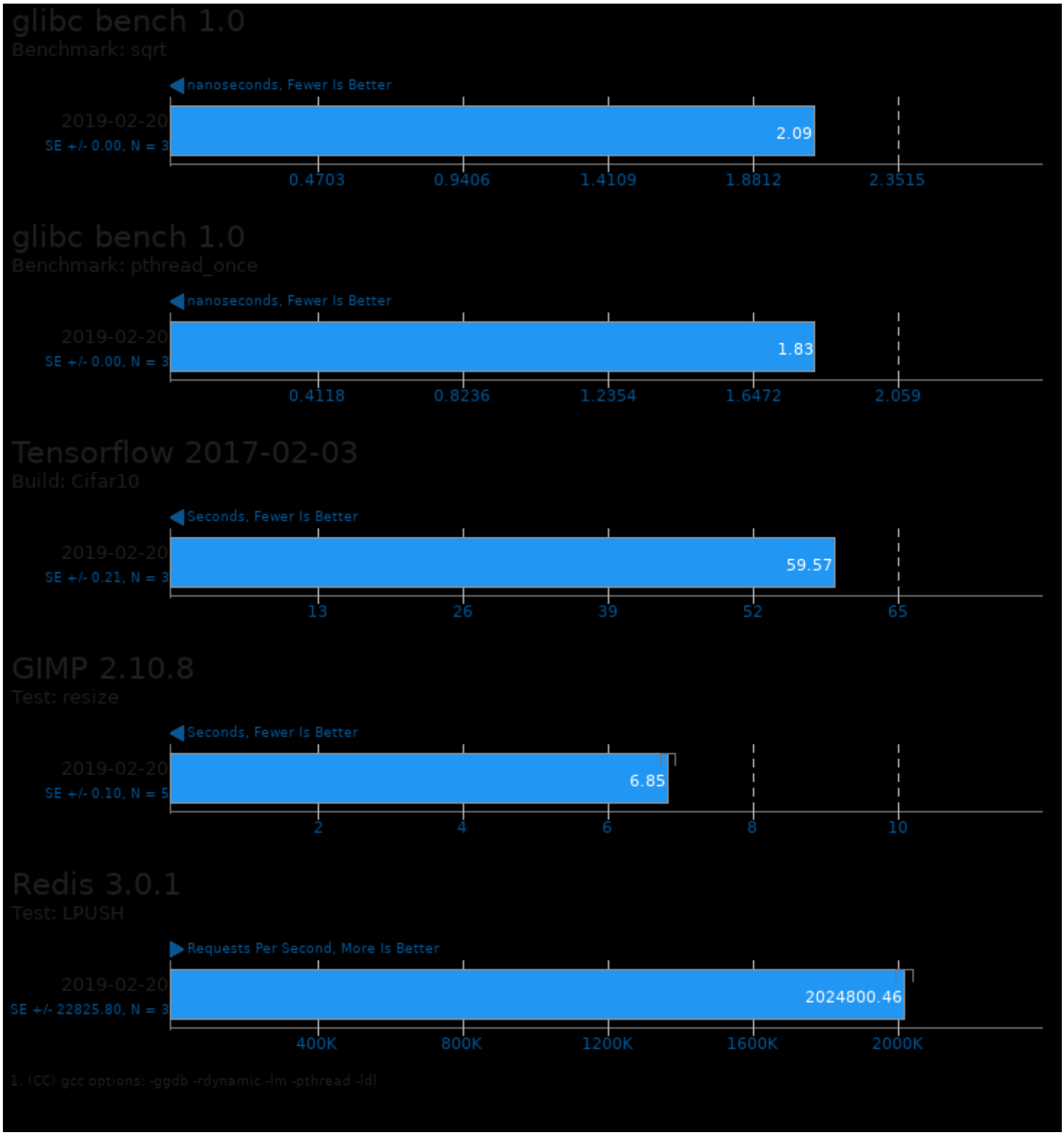
Systemd Total Boot Time

Test: Total

Systemd Total Boot Time

Test: Kernel

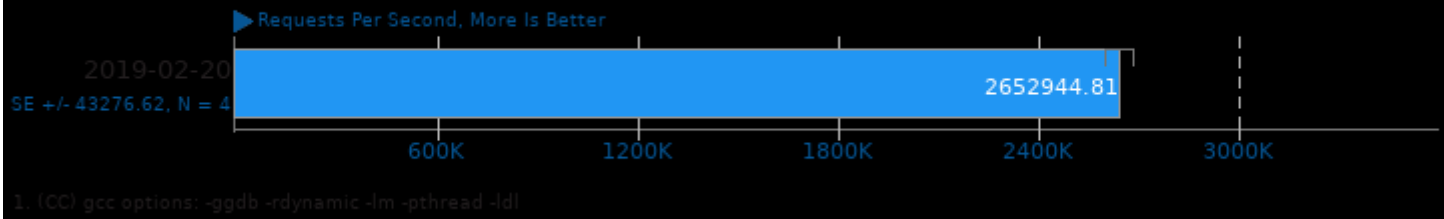
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Redis 3.0.1

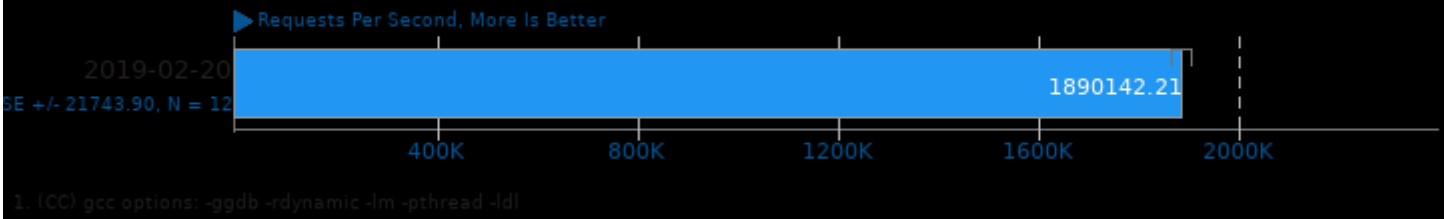
Test: GET



1. (CC) gcc options: -ggdb -rdynamic -lm -pthread -ldl

Redis 3.0.1

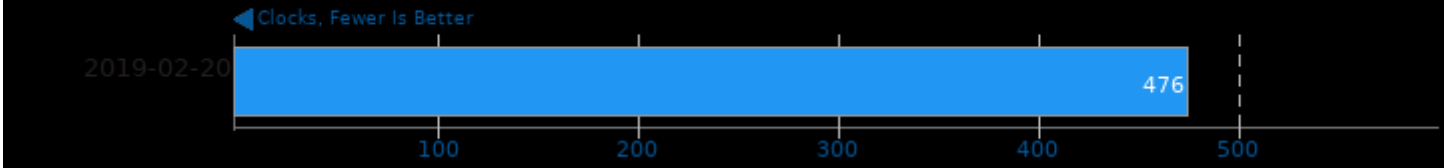
Test: SET



1. (CC) gcc options: -ggdb -rdynamic -lm -pthread -ldl

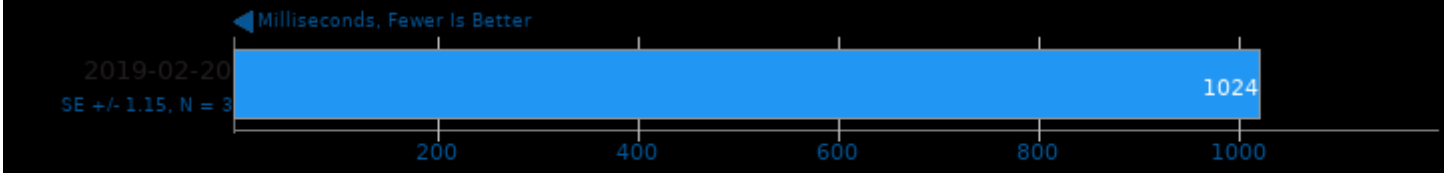
ctx_clock

Context Switch Time



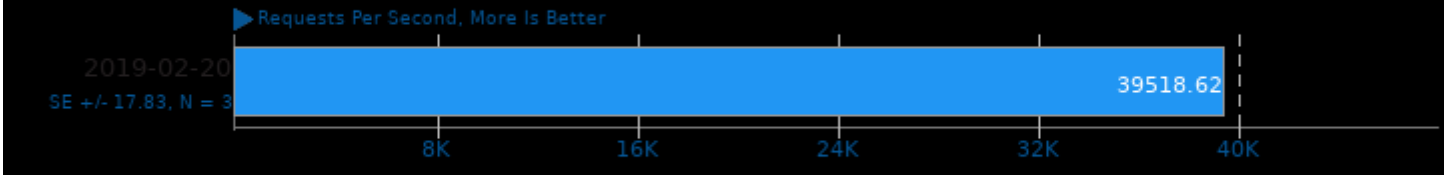
PyBench 2018-02-16

Total For Average Test Times



NGINX Benchmark 1.9.9

Static Web Page Serving

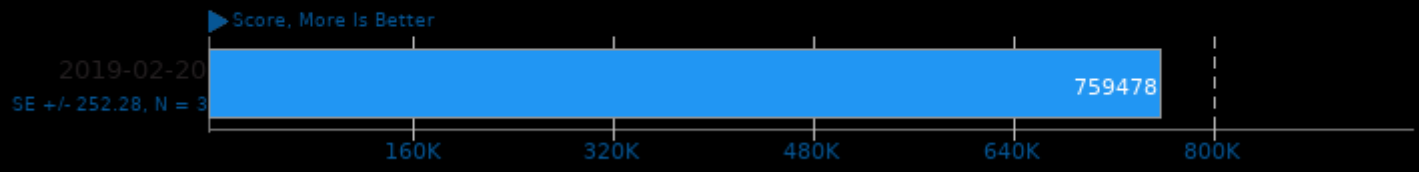


1. (CC) gcc options: -lpthread -lcrypt -lcrypto -lz -O3 -march=native

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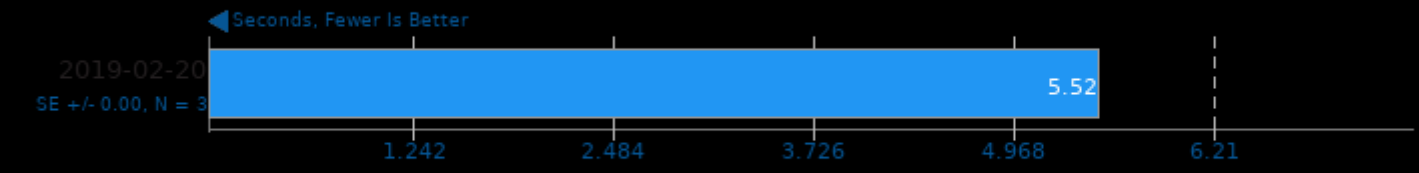
PHPBench 0.8.1

PHP Benchmark Suite



Git

Time To Complete Common Git Commands



1. git version 2.20.1

Scikit-Learn 0.17.1



OSBench

Test: Create Files



1. (CC) gcc options: -lm

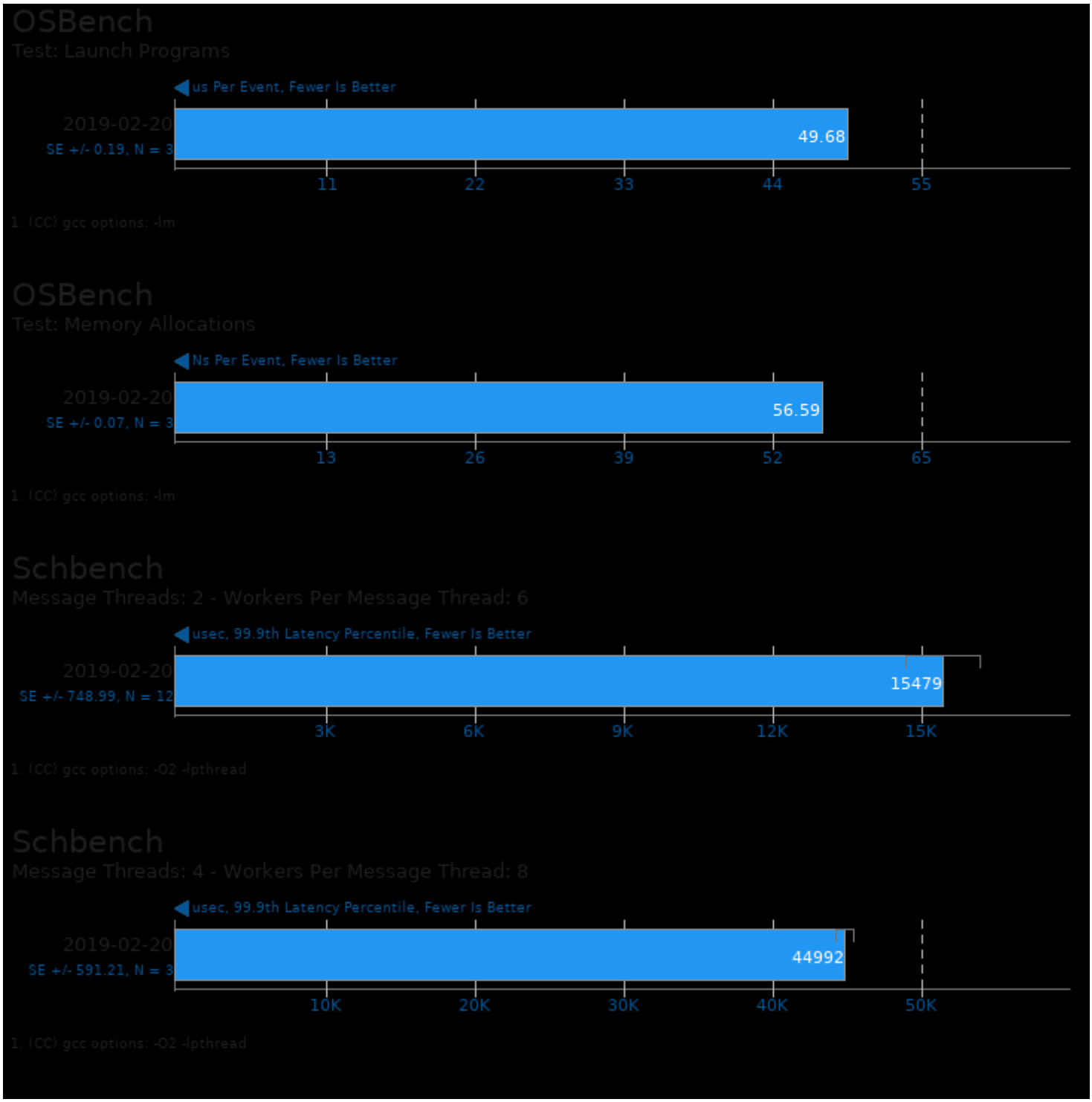
OSBench

Test: Create Threads



1. (CC) gcc options: -lm

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