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single_thread1.txt

Intel Xeon X3370 testing with a Supermicro X7SB4/E (2.0a BIOS) and AMD ES1000 128MB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

single_thread1

Processor: Intel Xeon X3370 @ 3.00GHz (4 Cores), Motherboard: Supermicro X7SB4/E (2.0a BIOS), Chipset: Intel 3200/3210 + ICH9R, Memory: 4 x 2048 MB DDR2-800MT/s, Disk: 3 x 500GB Seagate ST3500418AS, Graphics: AMD ES1000 128MB, Network: Intel 82573E + Intel 82573L

OS: Ubuntu 20.04, Kernel: 5.4.0-71-generic (x86_64), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1024x768

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,objc++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr.hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686

--with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand - CPU Microcode: 0xa0b
Java Notes: OpenJDK Runtime Environment (build 11.0.11+9-Ubuntu-0ubuntu2.20.04)
Python Notes: Python 2.7.18 + Python 3.8.5
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: EPT disabled + mds: Vulnerable: Clear buffers attempted no microcode; SMT disabled + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retrpoline STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

single_thread1

PolyBench-C - C.C (sec)	7.870
Standard Deviation	0.8%
PolyBench-C - C.C (sec)	7.855
Standard Deviation	0.9%
PolyBench-C - 3.M.M (sec)	16.377
Standard Deviation	0.1%
Izbench - XZ 0 - Compression (MB/s)	22
Izbench - XZ 0 - Decompression (MB/s)	76
Izbench - Zstd 1 - Compression (MB/s)	218
Standard Deviation	1.5%
Izbench - Zstd 1 - Decompression (MB/s)	594
Standard Deviation	1.3%
Izbench - Zstd 8 - Compression (MB/s)	38
Izbench - Zstd 8 - Decompression (MB/s)	617
Standard Deviation	0.9%
Izbench - Crush 0 - Compression (MB/s)	44
Standard Deviation	2.3%
Izbench - Crush 0 - Decompression (MB/s)	291
Standard Deviation	0.7%
Izbench - Brotli 0 - Compression (MB/s)	226
Izbench - Brotli 0 - Decompression (MB/s)	278
Standard Deviation	0.4%
Izbench - Brotli 2 - Compression (MB/s)	76
Standard Deviation	0.8%
Izbench - Brotli 2 - Decompression (MB/s)	344
Standard Deviation	0.3%
Izbench - Libdeflate 1 - Compression (MB/s)	111
Standard Deviation	0.5%
Izbench - Libdeflate 1 - Decompression (MB/s)	525
Standard Deviation	0.5%
BLAKE2 (Cycles/Byte)	6.81
Standard Deviation	0.3%
GNU GMP GMPbench - Total Time (GMPbench Score)	1945
Java SciMark - Composite (Mflops)	886.34
Standard Deviation	0.9%
Java SciMark - Monte Carlo (Mflops)	509.25
Standard Deviation	0.3%
Java SciMark - F.F.T (Mflops)	580.26
Standard Deviation	0.5%
Java SciMark - S.M.M (Mflops)	843.65
Standard Deviation	0.2%

Java SciMark - D.L.M.F (Mflops) 1421
Standard Deviation 2.7%
Java SciMark - J.S.O.R (Mflops) 1077
Standard Deviation 0.2%
Bork File Encrypter - F.E.T (sec) 22.024
Standard Deviation 23.4%
Fhourstones - C.C.4.S (Kpos / sec) 7476
Standard Deviation 1%
BYTE Unix Benchmark - Dhrystone 2 (LPS) 20681041
Standard Deviation 0.2%
CacheBench - Read (MB/s) 2523
Standard Deviation 0.2%
CacheBench - Write (MB/s) 18915
Standard Deviation 0.4%
CacheBench - R.M.W (MB/s) 19225
Standard Deviation 0.1%
LuaJIT - Composite (Mflops) 600.35
Standard Deviation 1.2%
LuaJIT - Monte Carlo (Mflops) 284.25
Standard Deviation 0.1%
LuaJIT - F.F.T (Mflops) 91.27
Standard Deviation 0.4%
LuaJIT - S.M.M (Mflops) 586.09
Standard Deviation 0.9%
LuaJIT - D.L.M.F (Mflops) 1057
Standard Deviation 2.9%
LuaJIT - J.S.O.R (Mflops) 983.01
Standard Deviation 0.2%
SciMark - Composite (Mflops) 308.30
Standard Deviation 0.5%
SciMark - Monte Carlo (Mflops) 81.61
Standard Deviation 0%
SciMark - F.F.T (Mflops) 69.70
Standard Deviation 0.1%
SciMark - S.M.M (Mflops) 320.34
Standard Deviation 0.5%
SciMark - D.L.M.F (Mflops) 384.55
Standard Deviation 0.6%
SciMark - J.S.O.R (Mflops) 685.28
Standard Deviation 0.5%
Botan - KASUMI (MiB/s) 33.916
Standard Deviation 0.1%
Botan - KASUMI - Decrypt (MiB/s) 32.895
Standard Deviation 0.3%
Botan - AES-256 (MiB/s) 182.230
Standard Deviation 0.2%
Botan - AES-256 - Decrypt (MiB/s) 169.851
Standard Deviation 0.3%
Botan - Twofish (MiB/s) 202.846
Standard Deviation 0.3%
Botan - Twofish - Decrypt (MiB/s) 198.269
Standard Deviation 0.2%
Botan - Blowfish (MiB/s) 229.800

Standard Deviation 2.2%
Botan - Blowfish - Decrypt (MiB/s) 232.139
Standard Deviation 0.4%
Botan - CAST-256 (MiB/s) 84.771
Standard Deviation 1.4%
Botan - CAST-256 - Decrypt (MiB/s) 85.249
Standard Deviation 0.3%
Botan - ChaCha20Poly1305 (MiB/s) 270.035
Standard Deviation 0.9%
Botan - ChaCha20Poly1305 - Decrypt (MiB/s) 267.543
Standard Deviation 0.7%
Node.js Express HTTP Load Test (Req/sec) 3090
Standard Deviation 1.5%
Swet - Average (Operations/sec) 387664992
Standard Deviation 0.4%
Node.js Octane Benchmark (Score) 18421
Standard Deviation 0.6%
Numpy Benchmark (Score) 99.71
Standard Deviation 0.8%
Gzip Compression - L.S.T.A.T.t.g (sec) 58.011
Standard Deviation 4.7%
drawing - R.T.P.I.C (sec) 93.601
Standard Deviation 0.6%
FLAC Audio Encoding - WAV To FLAC (sec) 29.325
Standard Deviation 1%
LAME MP3 Encoding - WAV To MP3 (sec) 17.422
Standard Deviation 1.8%
eSpeak-NG Speech Engine - T.T.S.S (sec) 73.454
Standard Deviation 1.3%
Minion - Graceful (sec) 87.673533
Standard Deviation 0.6%
Minion - Solitaire (sec) 122.720233
Standard Deviation 0.6%
Minion - Quasigroup (sec) 195.355488
Standard Deviation 0.6%
OpenCV Benchmark (sec) 197.094
Standard Deviation 5.3%
Perl Benchmarks - Pod2html (sec) 0.28300145
Standard Deviation 0.2%
Perl Benchmarks - Interpreter (sec) 0.00226512
Standard Deviation 3.4%
Radiance Benchmark - Serial (sec) 1779
R Benchmark (sec) 1.4000
Standard Deviation 0.6%
Sudokut - Total Time (sec) 25.651
Standard Deviation 0.4%
glibc bench - cos (nanoseconds) 116.062
Standard Deviation 0.5%
glibc bench - exp (nanoseconds) 16.1455
Standard Deviation 13.1%
glibc bench - ffs (nanoseconds) 3.57672
Standard Deviation 0.2%
glibc bench - sin (nanoseconds) 115.381

Standard Deviation 0%
glibc bench - log2 (nanoseconds) 19.3314
Standard Deviation 3.4%
glibc bench - modf (nanoseconds) 4.25142
Standard Deviation 0.2%
glibc bench - sinh (nanoseconds) 26.0748
Standard Deviation 11.7%
glibc bench - sqrt (nanoseconds) 6.15955
Standard Deviation 0%
glibc bench - tanh (nanoseconds) 34.4938
Standard Deviation 0.9%
glibc bench - asinh (nanoseconds) 30.6551
Standard Deviation 0.2%
glibc bench - atanh (nanoseconds) 33.7396
Standard Deviation 0.3%
glibc bench - ffsll (nanoseconds) 3.60755
Standard Deviation 2.5%
glibc bench - sincos (nanoseconds) 47.6125
Standard Deviation 0.1%
glibc bench - pthread_once (nanoseconds) 3.24353
Standard Deviation 0.1%
Multichase Pointer Chaser - 4.A.6.B.S (ns) 6.767
Standard Deviation 27.3%
Multichase Pointer Chaser - 1.A.2.B.S (ns) 90.047
Standard Deviation 2.3%
Multichase Pointer Chaser - 2.A.2.B.S (ns) 87.169
Standard Deviation 1.1%
Multichase Pointer Chaser - 1.A.2.B.S.2.T (ns) 107.9
Standard Deviation 1.4%
libjpeg-turbo tjbench - D.T (Megapixels/sec) 97.987103
Standard Deviation 1.1%
CppPerformanceBenchmarks - Atol (sec) 107.474
Standard Deviation 1%
CppPerformanceBenchmarks - Ctype (sec) 69.833
Standard Deviation 0.9%
CppPerformanceBenchmarks - Math Library (sec) 907.591
Standard Deviation 0.5%
CppPerformanceBenchmarks - Rand Numbers (sec) 2204
Standard Deviation 0.1%
CppPerformanceBenchmarks - Stepanov Vector (sec) 116.614
Standard Deviation 1%
CppPerformanceBenchmarks - Function Objects (sec) 20.020
Standard Deviation 0.5%
CppPerformanceBenchmarks - S.A (sec) 42.831
Standard Deviation 1.3%
Inkscape - SVG Files To PNG (sec) 54.337
Standard Deviation 2.3%
BenchmarkMutex - S.M.L.S (ns) 65.1
Standard Deviation 1.7%
BenchmarkMutex - M.L.U.s (ns) 69.6
Standard Deviation 0.1%
BenchmarkMutex - M.L.U.s.m (ns) 52.0
Standard Deviation 0.2%

BenchmarkMutex - M.L.U.s.m (ns) 74.2
 Standard Deviation 0.1%
BenchmarkMutex - S.R.A.A (ns) 43.4
 Standard Deviation 0.4%
BenchmarkMutex - M.L.U.s (ns) 73.3
 Standard Deviation 0.2%
BenchmarkMutex - M.L.U.p (ns) 43.8
 Standard Deviation 0.1%
BenchmarkMutex - M.L.U.t (ns) 43.1
 Standard Deviation 2%
Redis - LPOP (Req/sec) 1021962
 Standard Deviation 2.4%
Redis - SADD (Req/sec) 862817
 Standard Deviation 2.5%
Redis - LPUSH (Req/sec) 609057
 Standard Deviation 2.3%
Redis - GET (Req/sec) 998987
 Standard Deviation 1.5%
Redis - SET (Req/sec) 794326
 Standard Deviation 2.4%
Optcarrot - O.B (FPS) 64.29
 Standard Deviation 0.8%
PyBench - T.F.A.T.T (Milliseconds) 2151
 Standard Deviation 0.6%
Hierarchical INTegration - FLOAT (QUIPs) 227064467
 Standard Deviation 0.7%
NGINX Benchmark - S.W.P.S (Req/sec) 12033
 Standard Deviation 0.6%
PHPBench - P.B.S (Score) 349387
 Standard Deviation 0.4%
Git - T.T.C.C.G.C (sec) 115.619
 Standard Deviation 2.2%
GnuPG - 2.7.S.F.E (sec) 138.324
 Standard Deviation 1.9%
Tesseract OCR - T.T.O.7.I (sec) 107.656
 Standard Deviation 0.6%

PolyBench-C 4.2

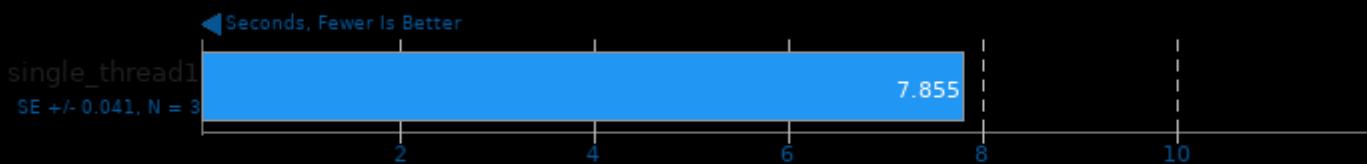
Test: Covariance Computation



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

PolyBench-C 4.2

Test: Correlation Computation



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

PolyBench-C 4.2

Test: 3 Matrix Multiplications



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

Izbench 1.8

Test: XZ 0 - Process: Compression



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

Izbench 1.8

Test: XZ 0 - Process: Decompression



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

Izbench 1.8

Test: Zstd 1 - Process: Compression



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

Izbench 1.8

Test: Zstd 1 - Process: Decompression



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

Izbench 1.8

Test: Zstd 8 - Process: Compression



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

Izbench 1.8

Test: Zstd 8 - Process: Decompression



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

Izbench 1.8

Test: Crush 0 - Process: Compression



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

Izbench 1.8

Test: Crush 0 - Process: Decompression



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

Izbench 1.8

Test: Brotli 0 - Process: Compression



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

Izbench 1.8

Test: Brotli 0 - Process: Decompression



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

Izbench 1.8

Test: Brotli 2 - Process: Compression



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

Izbench 1.8

Test: Brotli 2 - Process: Decompression



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

Izbench 1.8

Test: Libdeflate 1 - Process: Compression



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

Izbench 1.8

Test: Libdeflate 1 - Process: Decompression



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

BLAKE2 20170307



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

GNU GMP GMPbench 6.2.1

Total Time



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

Java SciMark 2.0

Computational Test: Composite



Java SciMark 2.0

Computational Test: Monte Carlo



Java SciMark 2.0

Computational Test: Fast Fourier Transform



Java SciMark 2.0

Computational Test: Sparse Matrix Multiply



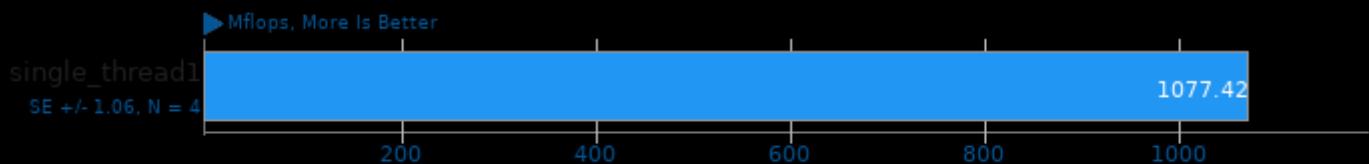
Java SciMark 2.0

Computational Test: Dense LU Matrix Factorization



Java SciMark 2.0

Computational Test: Jacobi Successive Over-Relaxation



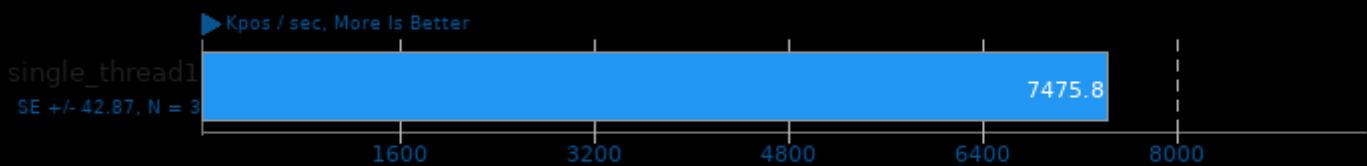
Bork File Encrypter 1.4

File Encryption Time



Fhourstones 3.1

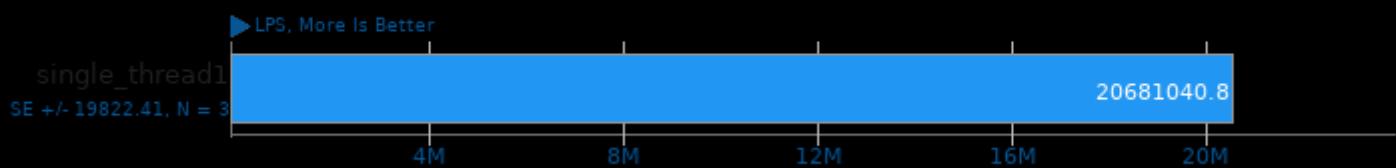
Complex Connect-4 Solving



1. (CC) gcc options: -O3

BYTE Unix Benchmark 3.6

Computational Test: Dhrystone 2



CacheBench

Test: Read



1. (CC) gcc options: -lrt

CacheBench

Test: Write



1. (CC) gcc options: -lrt

CacheBench

Test: Read / Modify / Write



1. (CC) gcc options: -lrt

LuaJIT 2.1-git

Test: Composite



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

LuaJIT 2.1-git

Test: Monte Carlo



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

LuaJIT 2.1-git

Test: Fast Fourier Transform



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

LuaJIT 2.1-git

Test: Sparse Matrix Multiply



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

LuaJIT 2.1-git

Test: Dense LU Matrix Factorization



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

LuaJIT 2.1-git

Test: Jacobi Successive Over-Relaxation



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

SciMark 2.0

Computational Test: Composite



1. (CC) gcc options: -lm

SciMark 2.0

Computational Test: Monte Carlo



1. (CC) gcc options: -lm

SciMark 2.0

Computational Test: Fast Fourier Transform



1. (CC) gcc options: -lm

SciMark 2.0

Computational Test: Sparse Matrix Multiply



1. (CC) gcc options: -lm

SciMark 2.0

Computational Test: Dense LU Matrix Factorization



1. (CC) gcc options: -lm

SciMark 2.0

Computational Test: Jacobi Successive Over-Relaxation



1. (CC) gcc options: -lm

Botan 2.17.3

Test: KASUMI



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

Test: KASUMI - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

Test: AES-256



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

Test: AES-256 - Decrypt



Botan 2.17.3

Test: Twofish



Botan 2.17.3

Test: Twofish - Decrypt



Botan 2.17.3

Test: Blowfish



Botan 2.17.3

Test: Blowfish - Decrypt



Botan 2.17.3

Test: CAST-256



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

Test: CAST-256 - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

Test: ChaCha20Poly1305



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

Test: ChaCha20Poly1305 - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

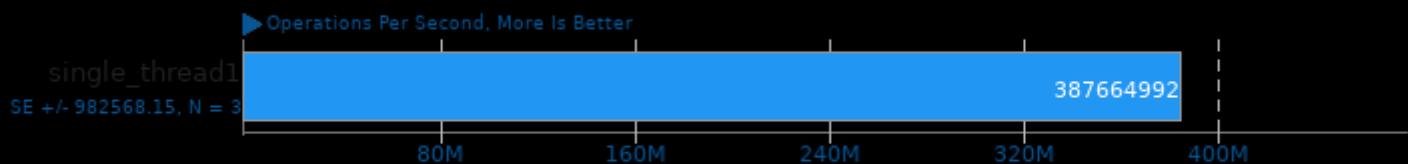
Node.js Express HTTP Load Test



1. Nodejs
v10.19.0

Swet 1.5.16

Average



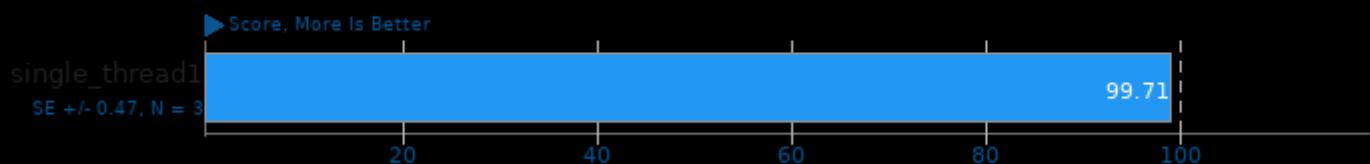
1. (CC) gcc options: -lm -lpthread -lcurses -lrt

Node.js Octane Benchmark



1. Nodejs
v10.19.0

Numpy Benchmark



Gzip Compression

Linux Source Tree Archiving To .tar.gz



dcraw

RAW To PPM Image Conversion



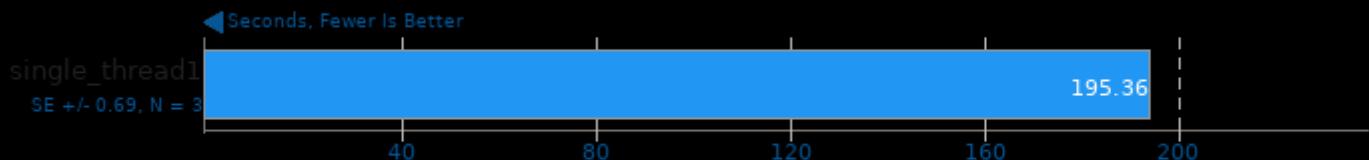
1. (CC) gcc options: -lm

FLAC Audio Encoding 1.3.2



Minion 1.8

Benchmark: Quasigroup



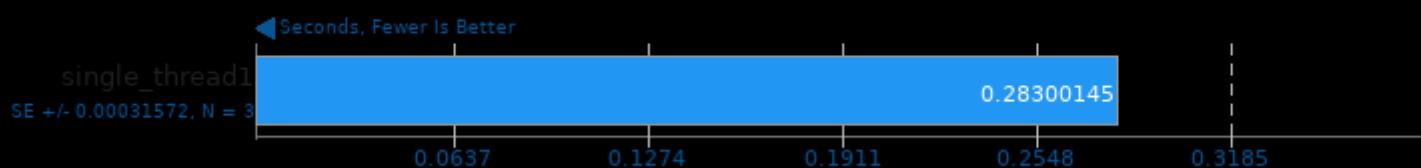
1. (CXX) g++ options: -std=gnu++11 -O3 -fomit-frame-pointer -rdynamic

OpenCV Benchmark 3.3.0



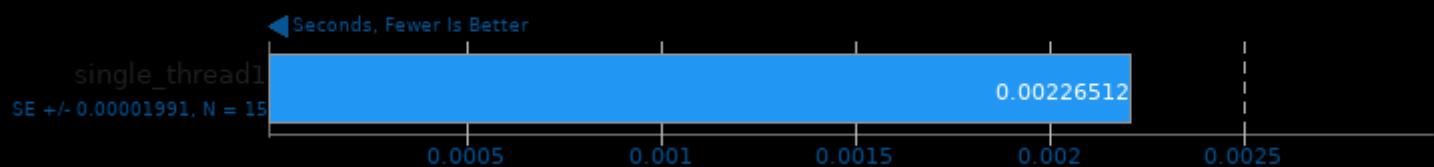
Perl Benchmarks

Test: Pod2html



Perl Benchmarks

Test: Interpreter

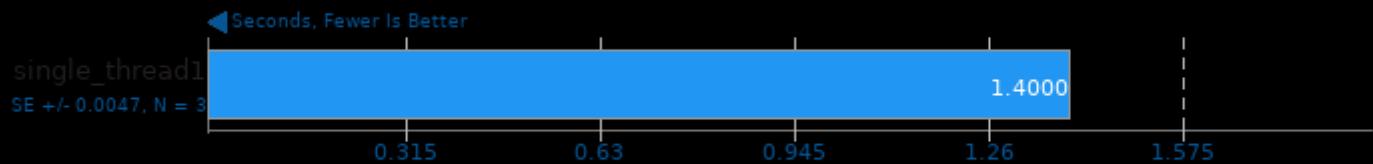


Radiance Benchmark 5.0

Test: Serial



R Benchmark



Sudokut 0.4

Total Time



glibc bench 1.0

Benchmark: cos



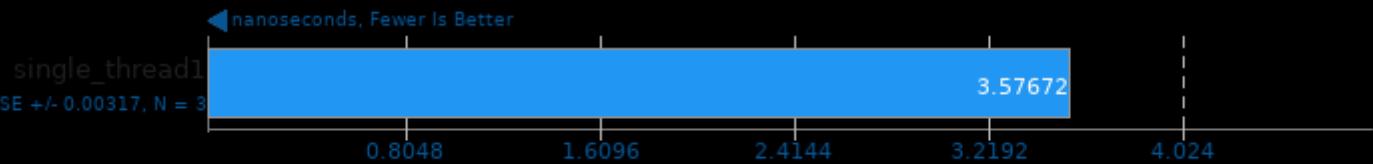
glibc bench 1.0

Benchmark: exp



glibc bench 1.0

Benchmark: ffs



glibc bench 1.0

Benchmark: sin

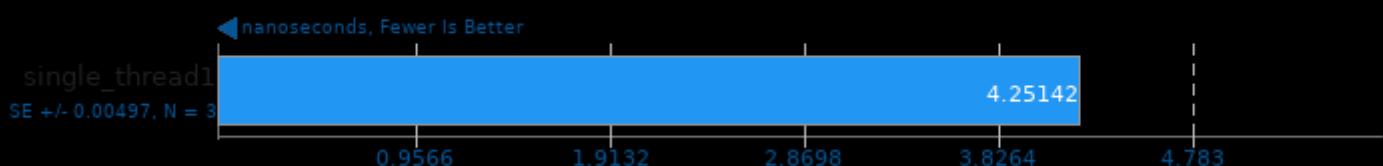


glibc bench 1.0

Benchmark: log2

**glibc bench 1.0**

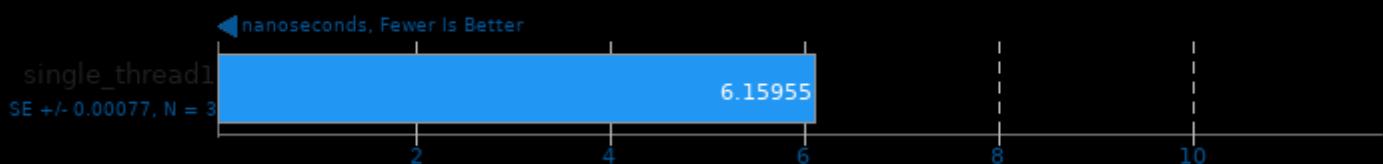
Benchmark: modf

**glibc bench 1.0**

Benchmark: sinh

**glibc bench 1.0**

Benchmark: sqrt

**glibc bench 1.0**

Benchmark: tanh

**glibc bench 1.0**

Benchmark: asinh

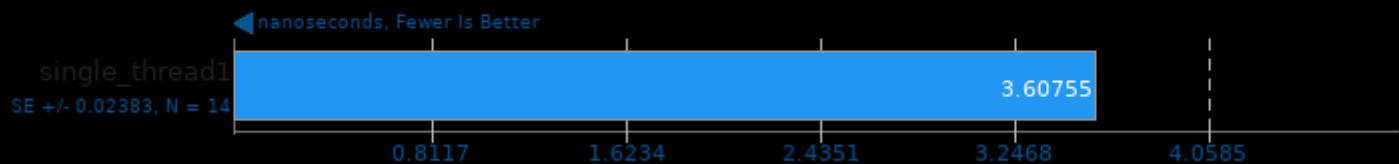


glibc bench 1.0

Benchmark: atanh

**glibc bench 1.0**

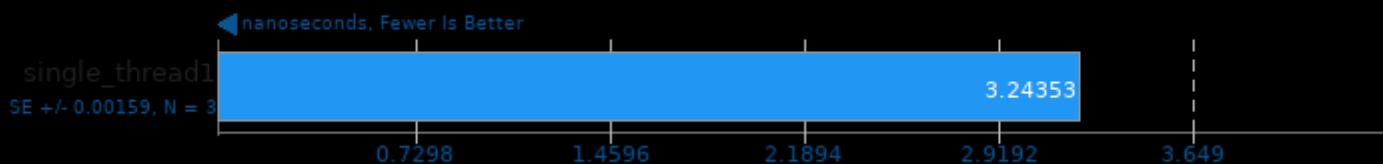
Benchmark: ffsl

**glibc bench 1.0**

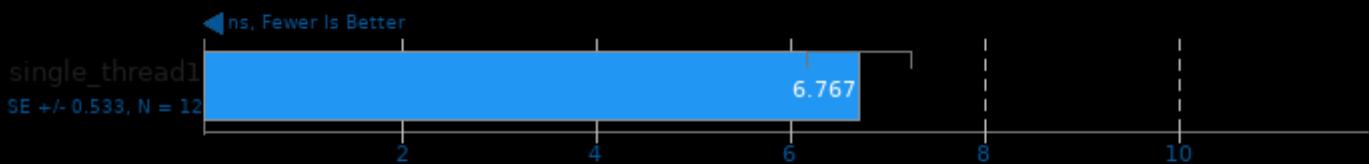
Benchmark: sincos

**glibc bench 1.0**

Benchmark: pthread_once

**Multichase Pointer Chaser**

Test: 4MB Array, 64 Byte Stride



1. (CC) gcc options: -O2 -static -pthread -lrt

Multichase Pointer Chaser

Test: 1GB Array, 256 Byte Stride



1. (CC) gcc options: -O2 -static -pthread -frt

Multichase Pointer Chaser

Test: 256MB Array, 256 Byte Stride



1. (CC) gcc options: -O2 -static -pthread -frt

Multichase Pointer Chaser

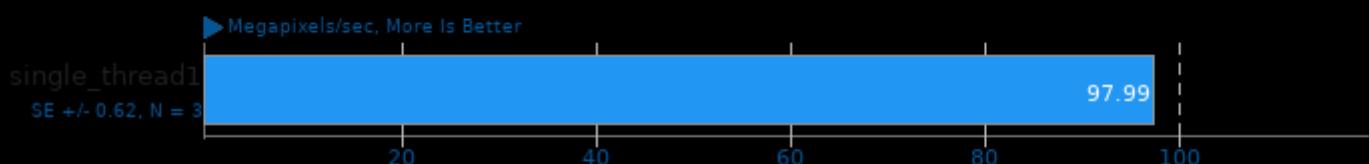
Test: 1GB Array, 256 Byte Stride, 2 Threads



1. (CC) gcc options: -O2 -static -pthread -frt

libjpeg-turbo tjbench 2.1.0

Test: Decompression Throughput



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

CppPerformanceBenchmarks 9

Test: Atol



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

CppPerformanceBenchmarks 9

Test: Ctype



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

CppPerformanceBenchmarks 9

Test: Math Library



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

CppPerformanceBenchmarks 9

Test: Random Numbers



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

CppPerformanceBenchmarks 9

Test: Stepanov Vector



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

CppPerformanceBenchmarks 9

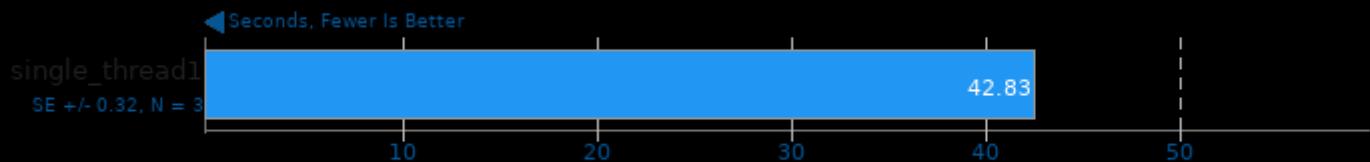
Test: Function Objects



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

CppPerformanceBenchmarks 9

Test: Stepanov Abstraction



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

Inkscape

Operation: SVG Files To PNG



1. Inkscape 0.92.5 (2060ec1f9f, 2020-04-08)

BenchmarkMutex

Benchmark: Shared Mutex Lock Shared



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

BenchmarkMutex

Benchmark: Mutex Lock Unlock spinlock



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

BenchmarkMutex

Benchmark: Mutex Lock Unlock std::mutex



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

BenchmarkMutex

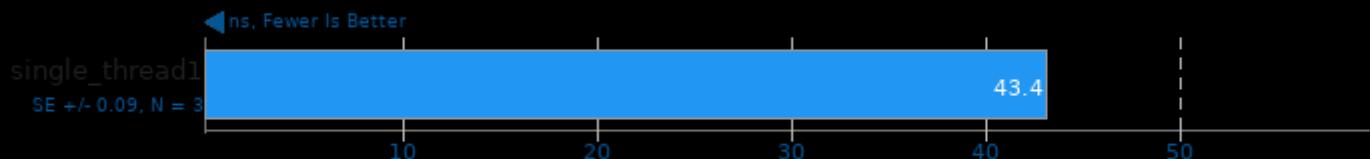
Benchmark: Mutex Lock Unlock std::mutex



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

BenchmarkMutex

Benchmark: Semaphore Release And Acquire



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

BenchmarkMutex

Benchmark: Mutex Lock Unlock spinlock_amd



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

BenchmarkMutex

Benchmark: Mutex Lock Unlock pthread_mutex



1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

BenchmarkMutex

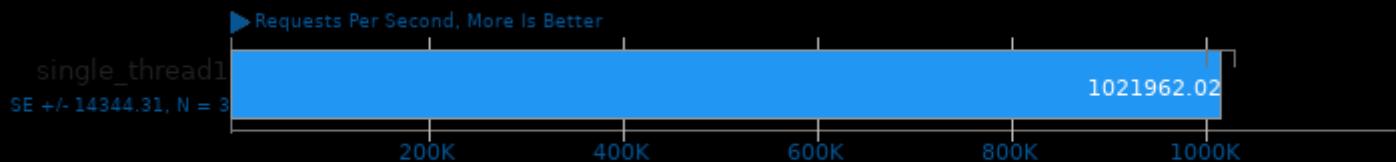
Benchmark: Mutex Lock Unlock ticket_spinlock



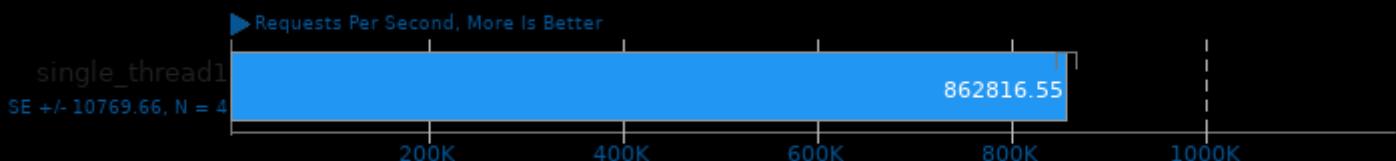
1. (CXX) g++ options: -std=c++17 -lbenchmark -pthread

single_thread1.txt**Redis 6.0.9**

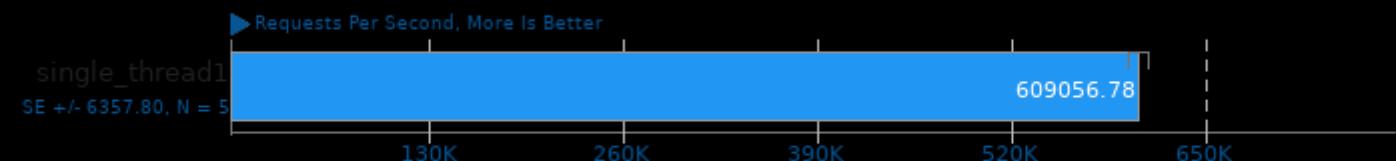
Test: LPOP

**Redis 6.0.9**

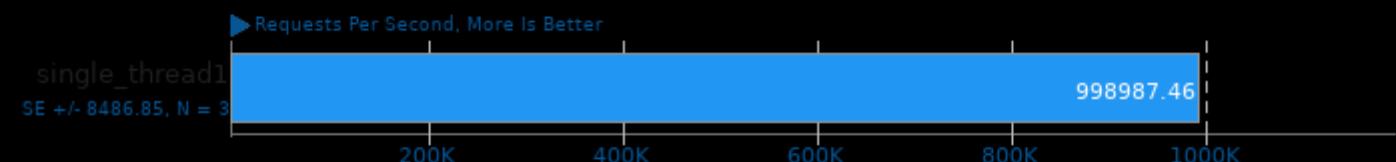
Test: SADD

**Redis 6.0.9**

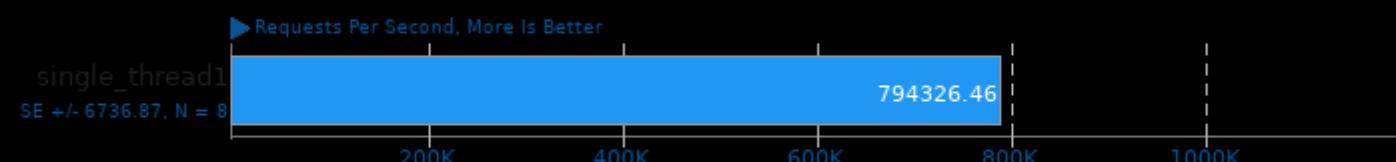
Test: LPUSH

**Redis 6.0.9**

Test: GET

**Redis 6.0.9**

Test: SET



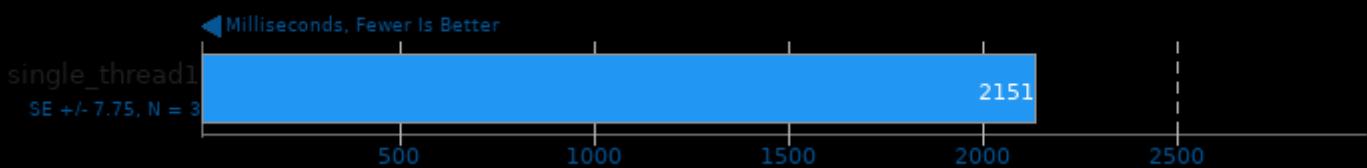
Optcarrot Optimized Benchmark



1. ruby 2.7.0p0 (2019-12-25 revision 647ee6f091) [x86_64-linux-gnu]

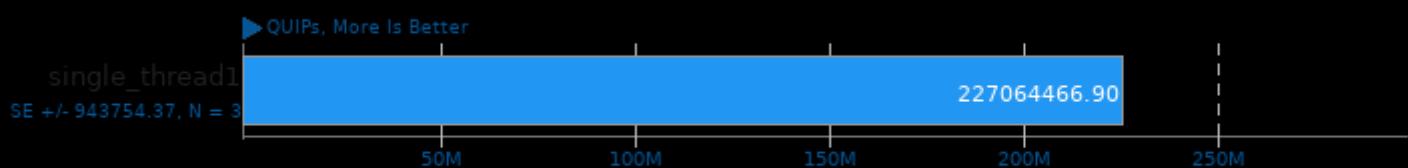
PyBench 2018-02-16

Total For Average Test Times



Hierarchical INTegration 1.0

Test: FLOAT



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

NGINX Benchmark 1.9.9

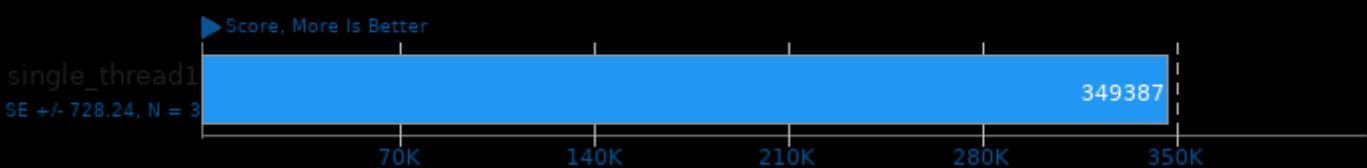
Static Web Page Serving



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

PHPBench 0.8.1

PHP Benchmark Suite



Git

Time To Complete Common Git Commands



1. git version 2.25.1

GnuPG 2.2.27

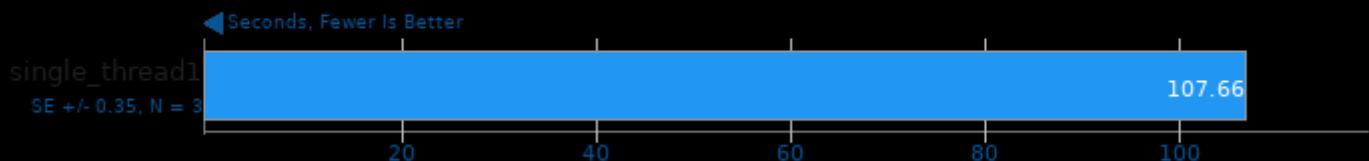
2.7GB Sample File Encryption



1. (CC) gcc options: -O2

Tesseract OCR 4.1.1

Time To OCR 7 Images



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