



www.phoronix-test-suite.com

Y

2 x Intel Xeon E5-2637 v4 testing with a Cisco UCSB-B200-M4 (B200M4.3.1.3i.0.032120171710 BIOS) and Matrox MGA G200e [Pilot] on OracleServer 7.6 via the Phoronix Test Suite.

Test Systems:

Y

Processor: 2 x Intel Xeon E5-2637 v4 @ 3.70GHz (8 Cores / 16 Threads), Motherboard: Cisco UCSB-B200-M4 (B200M4.3.1.3i.0.032120171710 BIOS), Chipset: Intel Xeon E7 v4/Xeon, Memory: 16384 MB + 32 GB + 16384 MB + 32 GB DDR4-2133MT/s, Disk: 12 x 54GB FlashArray + 12 x 215GB FlashArray, Graphics: Matrox MGA G200e [Pilot], Network: Cisco VIC NIC

OS: OracleServer 7.6, Kernel: 4.14.35-1844.4.5.2.el7uek.x86_64 (x86_64), Compiler: GCC 4.8.5 20150623, File-System: xfs, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-redhat-linux --disable-libgcj --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,java,fortran,ada,go,lto --enable-plugin

--enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-linker-hash-style=gnu --with-tune=generic
 Disk Notes: DEADLINE / attr2,inode64,noquota,relatime,rw
 Processor Notes: Scaling Governor: intel_pstate performance
 Java Notes: OpenJDK Runtime Environment (build 1.8.0_232-b09)
 Python Notes: Python 2.7.5 + Python 3.6.8
 Security Notes: I1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Vulnerable: Clear buffers attempted no microcode; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of __user pointer sanitization + spectre_v2: Mitigation of Full generic retrpoline
 STIBP: disabled

Y

SQLite - T.S.I (sec)	15.66
Standard Deviation	2.6%
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 2MB (MB/s)	2282
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB (MB/s)	120
Flexible IO Tester - Rand Read - Linux AIO - No - Yes - 4KB (IOPS)	30600
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 2MB (MB/s)	2254
Standard Deviation	0.1%
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB (MB/s)	115
Flexible IO Tester - Rand Write - Linux AIO - No - Yes - 4KB (IOPS)	29533
Standard Deviation	0.2%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 2MB (MB/s)	2279
Standard Deviation	0.2%
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (MB/s)	119
Flexible IO Tester - Seq Read - Linux AIO - No - Yes - 4KB (IOPS)	30600
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 2MB (MB/s)	2273
Standard Deviation	0.4%
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (MB/s)	113
Flexible IO Tester - Seq Write - Linux AIO - No - Yes - 4KB (IOPS)	28633
Standard Deviation	1.9%
FS-Mark - 1.F.1.S (Files/s)	308.66
Standard Deviation	3.4%
FS-Mark - 5.F.1.S.4.T (Files/s)	1032
Standard Deviation	0.1%
FS-Mark - 4.F.3.S.D.1.S (Files/s)	308.30
Standard Deviation	2.9%
FS-Mark - 1.F.1.S.N.S.F (Files/s)	2044
Standard Deviation	0.2%
Dbench - 12 Clients (MB/s)	3028
Standard Deviation	10.7%
Dbench - 1 Clients (MB/s)	260.38
Standard Deviation	16.1%
Compile Bench - Compile (MB/s)	1588
Standard Deviation	2.5%
Compile Bench - Initial Create (MB/s)	225.26
Standard Deviation	5.2%
Compile Bench - Read Compiled Tree (MB/s)	578.40
Standard Deviation	4.7%
PostMark - D.T.P (TPS)	4716
RAMspeed SMP - Integer Add (MB/s)	22822
RAMspeed SMP - Integer Copy (MB/s)	21202

RAMspeed SMP - Integer Scale (MB/s)	18283
RAMspeed SMP - Floating-Point Add (MB/s)	22827
Stream - Copy (MB/s)	78799
Standard Deviation	0.3%
Stream - Scale (MB/s)	58623
Standard Deviation	0.2%
Stream - Triad (MB/s)	63825
Standard Deviation	0.1%
Stream - Add (MB/s)	63850
Standard Deviation	0.1%
Stream - Copy (MB/s)	78799
Standard Deviation	0.3%
Stream - Scale (MB/s)	58623
Standard Deviation	0.2%
Stream - Add (MB/s)	63850
Standard Deviation	0.1%
Tinymembench - Standard Memcpy (MB/s)	9311
Standard Deviation	0.3%
Tinymembench - Standard Memset (MB/s)	9127
Standard Deviation	0.9%
MBW - Memory Copy - 1024 MiB (MiB/s)	8399
Standard Deviation	1.2%
MBW - M.C.F.B.S - 1024 MiB (MiB/s)	5087
Standard Deviation	0.3%
Sockperf - Throughput (Messages/sec)	529234
Standard Deviation	0.8%
Sockperf - Latency Ping Pong (usec)	3.83
Standard Deviation	1.3%
Sockperf - Latency Under Load (usec)	18.33
Standard Deviation	2.9%
Ethr - TCP - Latency - 1 (us)	16.49
Standard Deviation	8%
Ethr - HTTP - Bandwidth - 1 (Mbits/s)	1260
Standard Deviation	0.3%
Ethr - TCP - Connections/s - 1 (Connections/sec)	1107
Standard Deviation	1%
Timed HMMer Search - P.D.S (sec)	6.79
Standard Deviation	0.6%
Timed MAFFT Alignment - M.S.A (sec)	2.90
Standard Deviation	5.3%
GNU GMP GMPbench - Total Time (GMPbench Score)	4550
Bork File Encrypter - F.E.T (sec)	8.45
Standard Deviation	0.7%
Java Gradle Build - Reactor (sec)	23.69
Standard Deviation	3%
Fhourstones - C.C.4.S (Kpos / sec)	12424
Standard Deviation	0.3%
BYTE Unix Benchmark - Dhrystone 2 (LPS)	33911321
Standard Deviation	0.1%
CacheBench - Read Cache (MB/s)	3128
Standard Deviation	0%
CacheBench - Write Cache (MB/s)	26242
Standard Deviation	0%

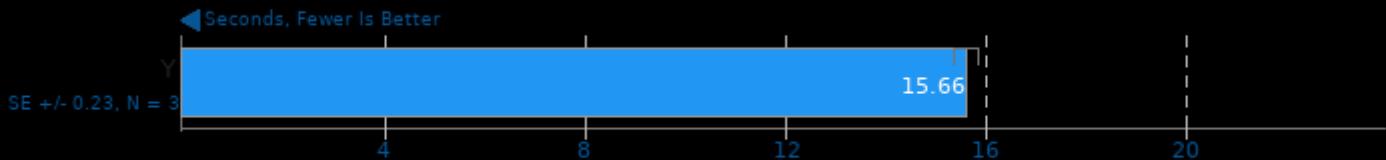
SciMark - Composite (Mflops)	600.63
Standard Deviation	0.3%
Botan - KASUMI - Encrypt (MiB/s)	74.40
Standard Deviation	0%
Botan - KASUMI - Decrypt (MiB/s)	70.13
Standard Deviation	0%
Botan - AES-256 - Encrypt (MiB/s)	3241
Standard Deviation	0.9%
Botan - AES-256 - Decrypt (MiB/s)	3225
Standard Deviation	1.1%
Botan - Twofish - Encrypt (MiB/s)	297.72
Standard Deviation	0%
Botan - Twofish - Decrypt (MiB/s)	303.94
Standard Deviation	0.4%
Botan - Blowfish - Encrypt (MiB/s)	260.50
Standard Deviation	0.1%
Botan - Blowfish - Decrypt (MiB/s)	259.97
Standard Deviation	0.1%
Botan - CAST-256 - Encrypt (MiB/s)	117.27
Standard Deviation	0%
Botan - CAST-256 - Decrypt (MiB/s)	117.28
Standard Deviation	0%
Gcrypt Library - C.E.C (us)	1913
Standard Deviation	0.3%
Crafty - Elapsed Time (Nodes/s)	7275862
Standard Deviation	0.8%
TSCP - A.C.P (Nodes/s)	1234928
John The Ripper - Blowfish (Real C/S)	11959
Standard Deviation	0%
John The Ripper - MD5 (Real C/S)	823051
Standard Deviation	0.1%
7-Zip Compression - C.S.T (MIPS)	40850
Standard Deviation	1.1%
Stockfish - Total Time (Nodes/s)	20614306
Standard Deviation	0.6%
asmFish - 1.H.M.2.D (Nodes/s)	22123937
Standard Deviation	0.5%
Timed Apache Compilation - Time To Compile (sec)	20.60
Standard Deviation	0.7%
Timed GCC Compilation - Time To Compile (sec)	974.11
Standard Deviation	0.1%
Timed ImageMagick Compilation - Time To Compile (sec)	32.83
Standard Deviation	1%
Timed Linux Kernel Compilation - Time To Compile (sec)	89.99
Standard Deviation	1%
Timed PHP Compilation - Time To Compile (sec)	54.60
Standard Deviation	0.4%
Parallel BZIP2 Compression - 2.F.C (sec)	4.93
Standard Deviation	3%
POV-Ray - Trace Time (sec)	62.14
Standard Deviation	0.3%
Gzip Compression - L.S.T.A.T.t.g (sec)	39.70
Standard Deviation	0.4%

XZ Compression - C.u.1.0.3.s.i.i.C.L.9 (sec)	27.60
Standard Deviation	0.2%
Zstd Compression - C.u.1.0.3.s.i.i.C.L.1 (sec)	17.95
Standard Deviation	2.2%
ddraw - R.T.P.I.C (sec)	48.25
Standard Deviation	0%
FLAC Audio Encoding - WAV To FLAC (sec)	12.96
Standard Deviation	0.2%
LAME MP3 Encoding - WAV To MP3 (sec)	12.54
Standard Deviation	0.6%
eSpeak Speech Engine - T.T.S.S (sec)	33.57
Standard Deviation	0.3%
FFmpeg - H.2.H.T.N.D (sec)	7.81
Standard Deviation	2.9%
GnuPG - 2.F.E (sec)	15.37
Standard Deviation	3%
Minion - Solitaire (sec)	81.35
Standard Deviation	1.3%
Sudokut - Total Time (sec)	17.10
Standard Deviation	0%
OpenSSL - R.4.b.P (Signs/sec)	2090
Standard Deviation	0.5%
PostgreSQL pgbench - Buffer Test - Normal Load - Read Only (TPS)	165895
Standard Deviation	0.9%
PostgreSQL pgbench - Buffer Test - Normal Load - Read Write	7010
Standard Deviation	19.9%
PostgreSQL pgbench - Buffer Test - Single Thread - Read Only	15357
Standard Deviation	0.5%
PostgreSQL pgbench - Buffer Test - Single Thread - Read Write	1085
Standard Deviation	1%
PostgreSQL pgbench - Buffer Test - Heavy Contention - Read Only (TPS)	169506
Standard Deviation	0.3%
PostgreSQL pgbench - Buffer Test - Heavy Contention - Read Write (TPS)	10590
Standard Deviation	2.9%
Redis - LPOP (Req/sec)	2010342
Standard Deviation	6.9%
Redis - SADD (Req/sec)	1504542
Standard Deviation	0.5%
Redis - LPUSH (Req/sec)	1188609
Standard Deviation	0.5%
Redis - GET (Req/sec)	1888575
Standard Deviation	2.2%
Redis - SET (Req/sec)	1444796
Standard Deviation	5.1%
NGINX Benchmark - S.W.P.S (Req/sec)	28525
Standard Deviation	1.2%
Apache Benchmark - S.W.P.S (Req/sec)	27434
Standard Deviation	1.5%
Apache Siege - 250 (Transactions/sec)	6902
Standard Deviation	9.6%
PHPBench - P.B.S (Score)	193798

Standard Deviation 0.3%
Sunflow Rendering System - G.I.I.S (sec) 2.08
Standard Deviation 1.8%

SQLite 3.22

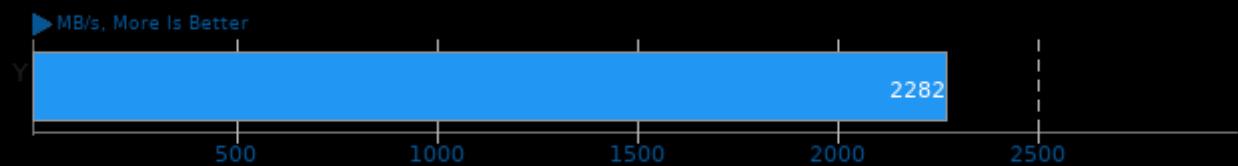
Timed SQLite Insertions



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

Flexible IO Tester 3.1

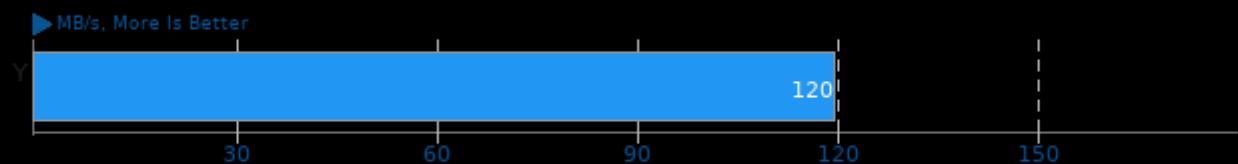
Type: Random Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lrt -laio -lz -lm -lpthread -ldl

Flexible IO Tester 3.1

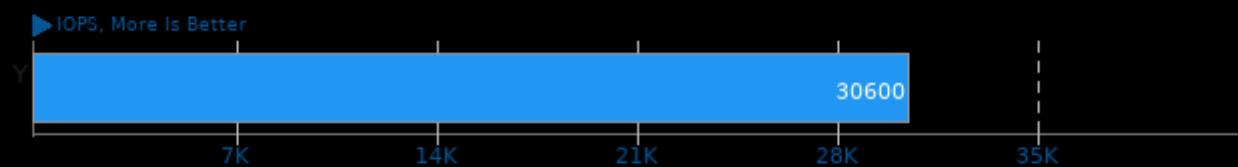
Type: Random Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lrt -laio -lz -lm -lpthread -ldl

Flexible IO Tester 3.1

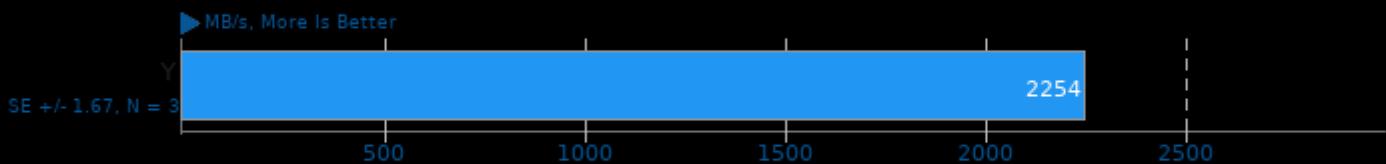
Type: Random Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lrt -laio -lz -lm -lpthread -ldl

Flexible IO Tester 3.1

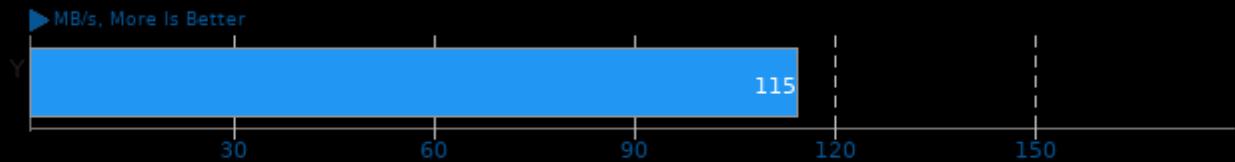
Type: Random Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lrt -laio -lz -lm -lpthread -ldl

Flexible IO Tester 3.1

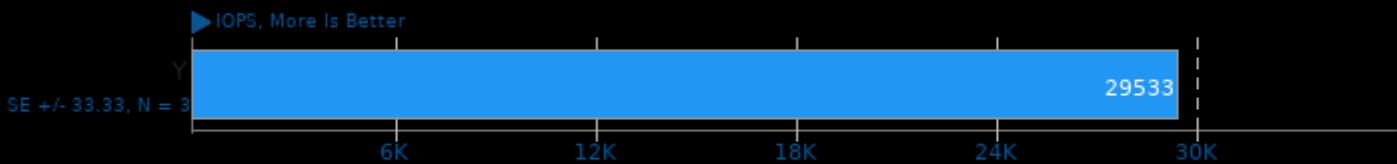
Type: Random Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lrt -laio -lz -lm -lpthread -ldl

Flexible IO Tester 3.1

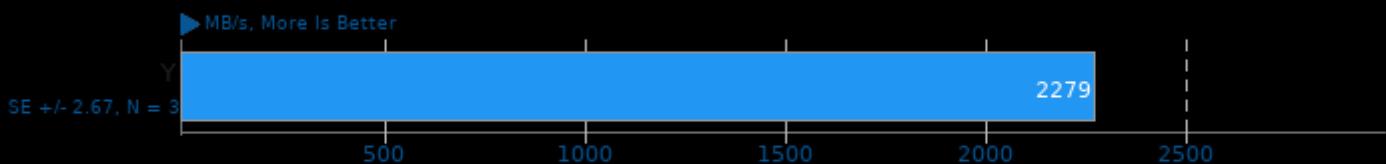
Type: Random Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lrt -laio -lz -lm -lpthread -ldl

Flexible IO Tester 3.1

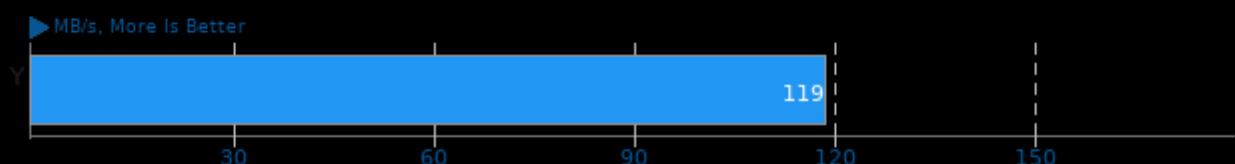
Type: Sequential Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lrt -laio -lz -lm -lpthread -ldl

Flexible IO Tester 3.1

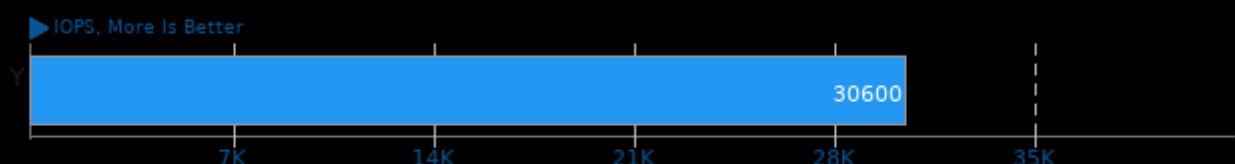
Type: Sequential Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lrt -laio -lz -lm -lpthread -ldl

Flexible IO Tester 3.1

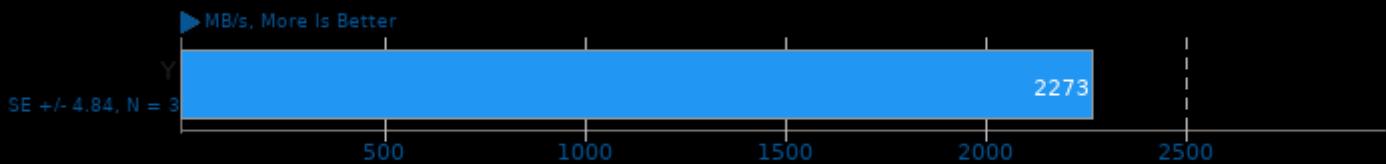
Type: Sequential Read - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -lrt -laio -lz -lm -lpthread -ldl

Flexible IO Tester 3.1

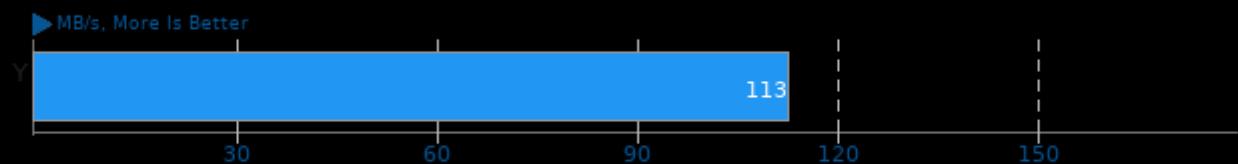
Type: Sequential Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 2MB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -ftr -laio -lz -lm -lpthread -ldl

Flexible IO Tester 3.1

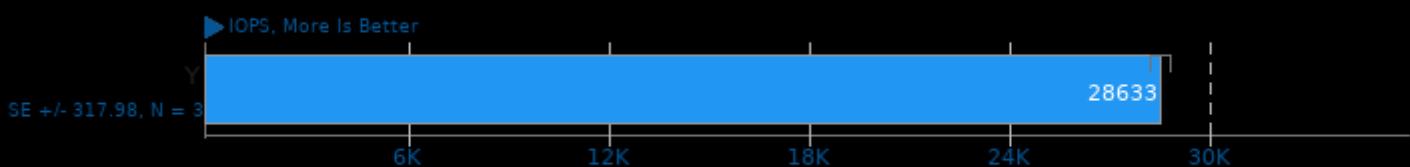
Type: Sequential Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -ftr -laio -lz -lm -lpthread -ldl

Flexible IO Tester 3.1

Type: Sequential Write - IO Engine: Linux AIO - Buffered: No - Direct: Yes - Block Size: 4KB - Disk Target: Default Test Directory



1. (CC) gcc options: -rdynamic -std=gnu99 -ffast-math -include -O3 -U_FORTIFY_SOURCE -ftr -laio -lz -lm -lpthread -ldl

FS-Mark 3.3

Test: 1000 Files, 1MB Size



1. (CC) gcc options: -static

FS-Mark 3.3

Test: 5000 Files, 1MB Size, 4 Threads



1. (CC) gcc options: -static

FS-Mark 3.3

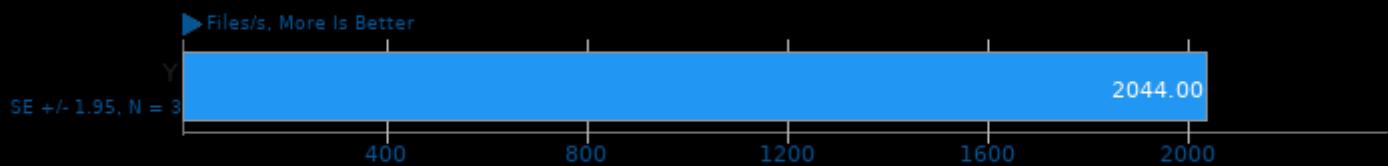
Test: 4000 Files, 32 Sub Dirs, 1MB Size



1. (CC) gcc options: -static

FS-Mark 3.3

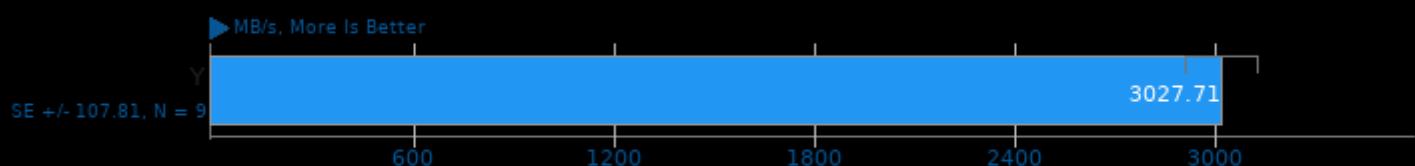
Test: 1000 Files, 1MB Size, No Sync/FSync



1. (CC) gcc options: -static

Dbench 4.0

12 Clients



1. (CC) gcc options: -fno-optimize-sibling-calls

Dbench 4.0

1 Clients



1. (CC) gcc options: -fno-optimize-sibling-calls

Compile Bench 0.6

Test: Compile



Compile Bench 0.6

Test: Initial Create



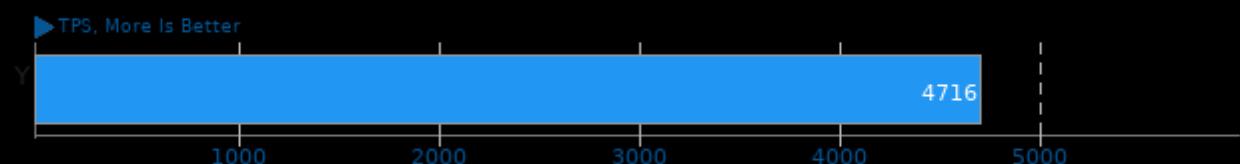
Compile Bench 0.6

Test: Read Compiled Tree



PostMark 1.51

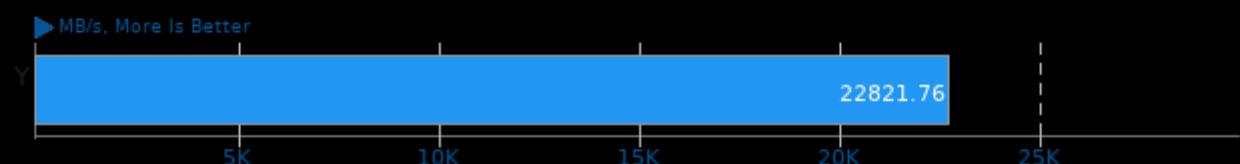
Disk Transaction Performance



1. (CC) gcc options: -O3

RAMspeed SMP 3.5.0

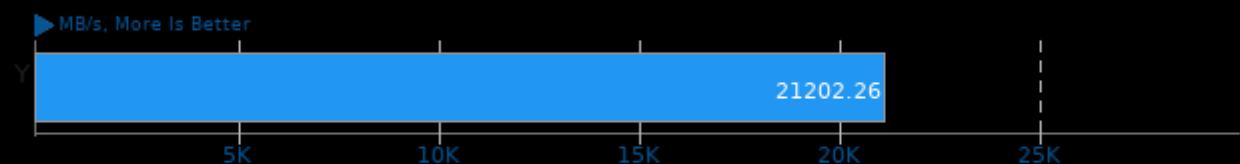
Integer Add



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

RAMspeed SMP 3.5.0

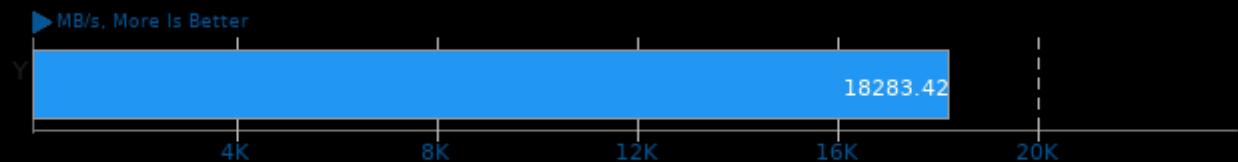
Integer Copy



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

RAMspeed SMP 3.5.0

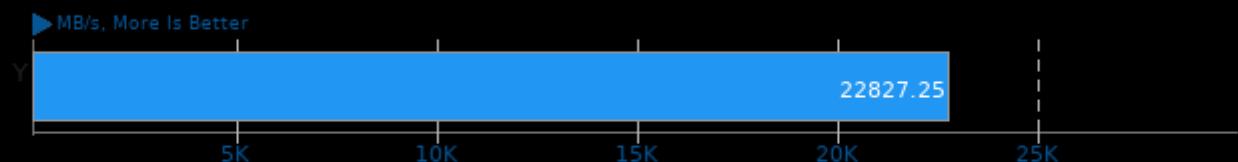
Integer Scale



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

RAMspeed SMP 3.5.0

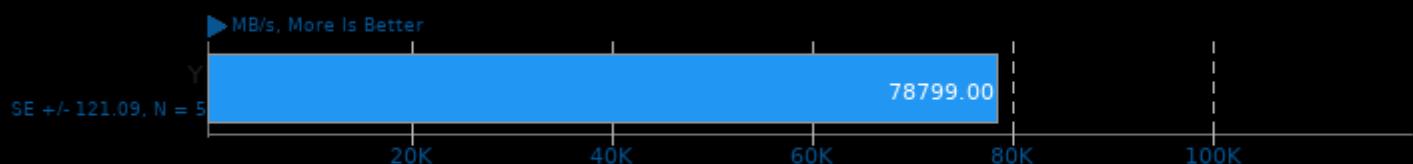
Floating-Point Add



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

Stream 2013-01-17

Type: Copy



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

Stream 2013-01-17

Type: Scale



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

Stream 2013-01-17

Type: Triad



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

Stream 2013-01-17

Add



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

Stream 2013-01-17

Copy



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

Stream 2013-01-17

Scale



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

Stream 2013-01-17

Type: Add



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

Tinymembench 2018-05-28

Standard Memcpy



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

Tinymembench 2018-05-28

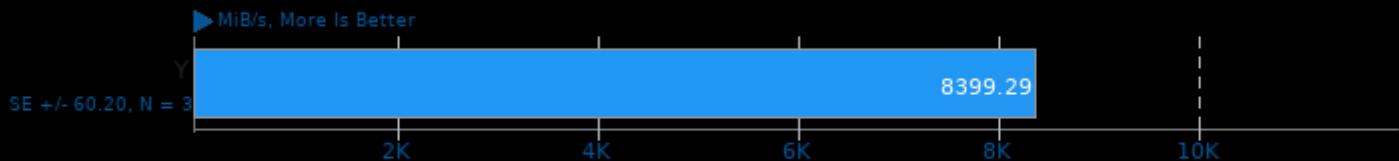
Standard Memset



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

MBW 2018-09-08

Test: Memory Copy - Array Size: 1024 MiB



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

MBW 2018-09-08

Test: Memory Copy, Fixed Block Size - Array Size: 1024 MiB



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

Sockperf 3.4

Test: Throughput



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

Sockperf 3.4

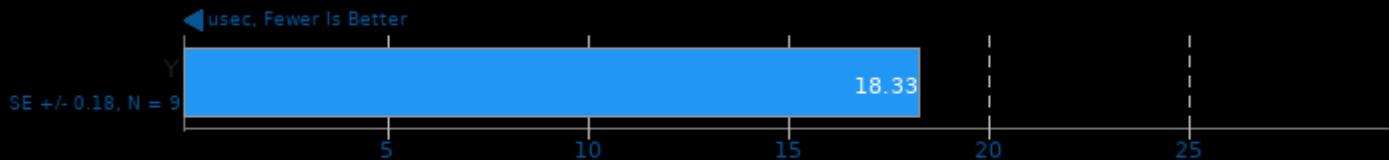
Test: Latency Ping Pong



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

Sockperf 3.4

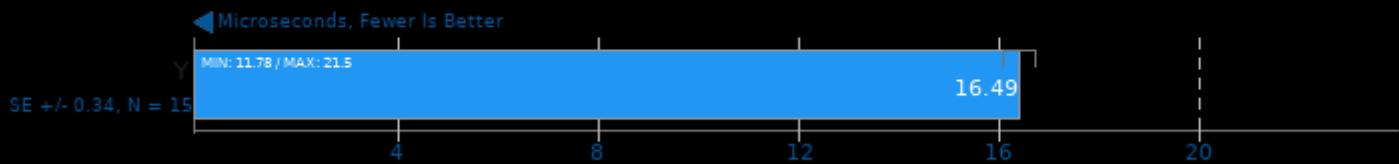
Test: Latency Under Load



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

Ethr 2019-01-02

Server Address: localhost - Protocol: TCP - Test: Latency - Threads: 1



Ethr 2019-01-02

Server Address: localhost - Protocol: HTTP - Test: Bandwidth - Threads: 1



Ethr 2019-01-02

Server Address: localhost - Protocol: TCP - Test: Connections/s - Threads: 1



Timed HMMer Search 2.3.2

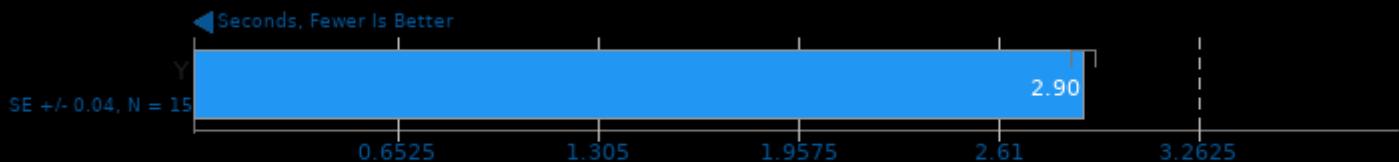
Pfam Database Search



1. (CC) gcc options: -O2 -pthread -lhmmer -lsquid -lm

Timed MAFFT Alignment 7.392

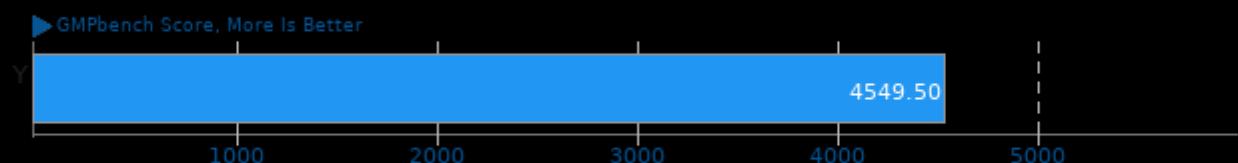
Multiple Sequence Alignment



1. (CC) gcc options: -std=c99 -O3 -lm -lpthread

GNU GMP GMPbench 6.1.2

Total Time



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

Bork File Encrypter 1.4

File Encryption Time



Java Gradle Build 1.0

Gradle Build: Reactor



Fhourstones 3.1

Complex Connect-4 Solving



1. (CC) gcc options: -O3

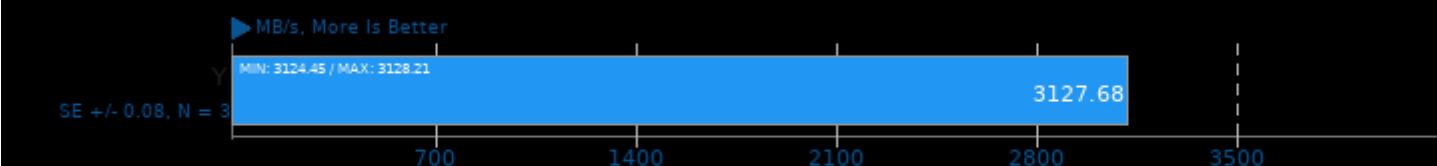
BYTE Unix Benchmark 3.6

Dhrystone 2



CacheBench

Read Cache



1. (CC) gcc options: -lrt

CacheBench

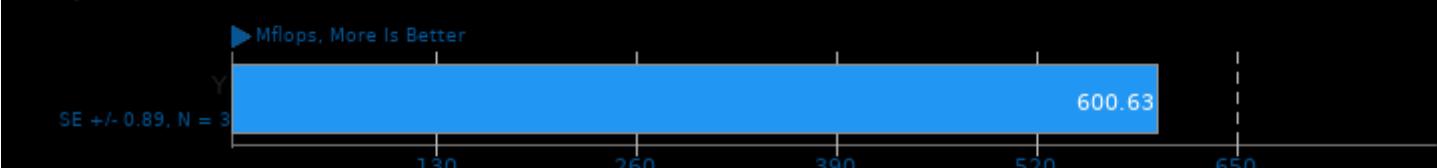
Write Cache



1. (CC) gcc options: -lrt

SciMark 2.0

Composite



1. (CC) gcc options: -lm

Botan 2.8.0

Test: KASUMI - Encrypt



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

Botan 2.8.0

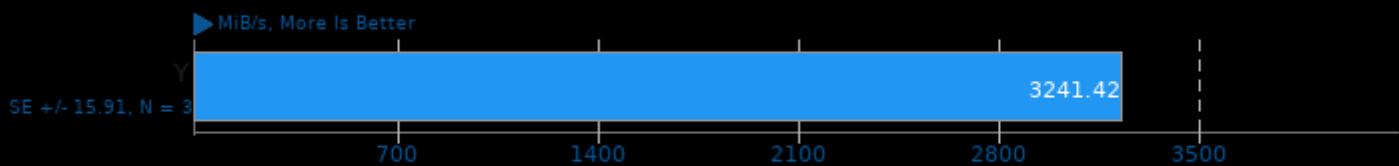
Test: KASUMI - Decrypt



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

Botan 2.8.0

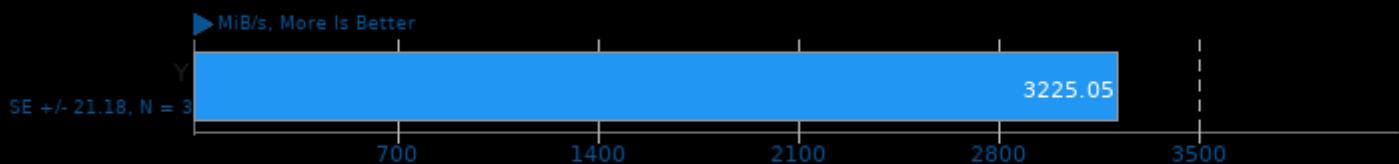
Test: AES-256 - Encrypt



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

Botan 2.8.0

Test: AES-256 - Decrypt



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

Botan 2.8.0

Test: Twofish - Encrypt



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

Botan 2.8.0

Test: Twofish - Decrypt



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

Botan 2.8.0

Test: Blowfish - Encrypt



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

Botan 2.8.0

Test: Blowfish - Decrypt



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

Botan 2.8.0

Test: CAST-256 - Encrypt



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

Botan 2.8.0

Test: CAST-256 - Decrypt



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

Gcrypt Library 1.4.4

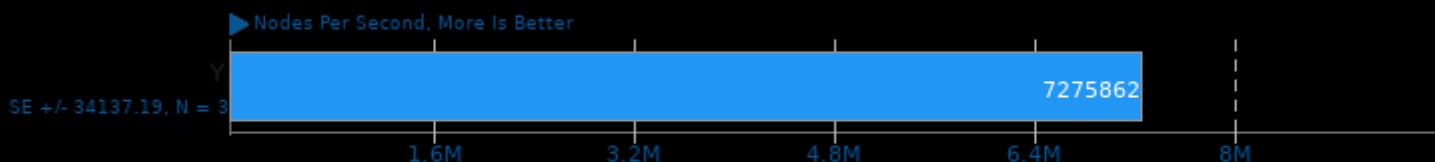
CAMELLIA256-ECB Cipher



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

Crafty 25.2

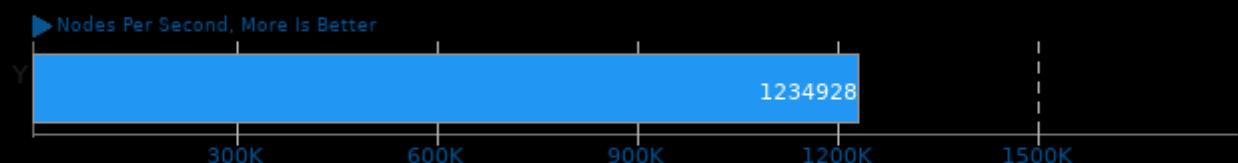
Elapsed Time



1. (CC) gcc options: -pthread -stdc++ -fprofile-use -lm

TSCP 1.81

AI Chess Performance



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

John The Ripper 1.9.0-jumbo-1

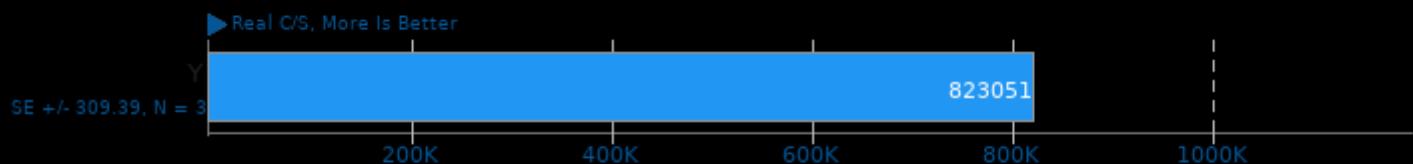
Test: Blowfish



1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -lgmp -pthread -lm -lz -ldl -lcrypt -lbz2

John The Ripper 1.9.0-jumbo-1

Test: MD5



1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -lgmp -pthread -lm -lz -ldl -lcrypt -lbz2

7-Zip Compression 16.02

Compress Speed Test



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

Stockfish 9

Total Time



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

asmFish 2018-07-23

1024 Hash Memory, 26 Depth



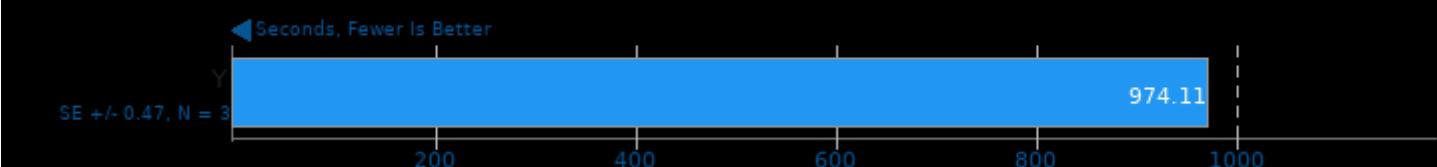
Timed Apache Compilation 2.4.7

Time To Compile



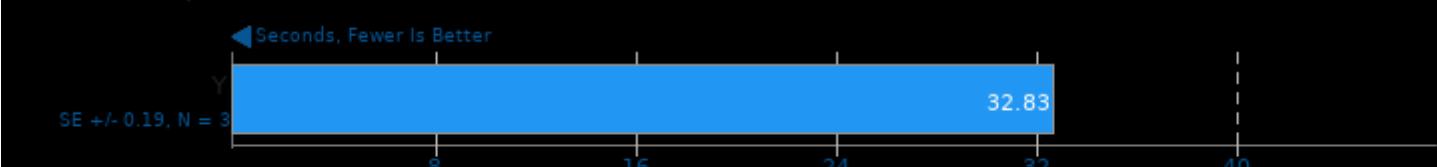
Timed GCC Compilation 8.2

Time To Compile



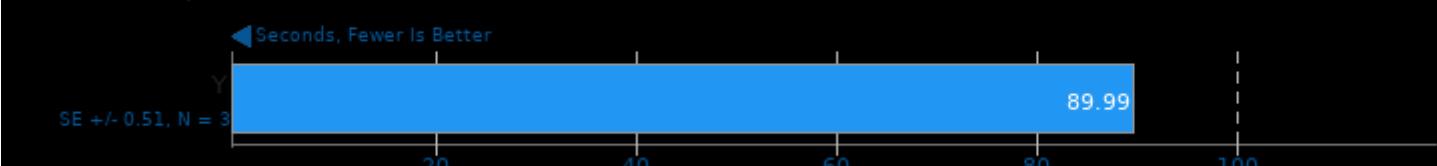
Timed ImageMagick Compilation 6.9.0

Time To Compile



Timed Linux Kernel Compilation 5.4

Time To Compile



Timed PHP Compilation 7.1.9

Time To Compile



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

Parallel BZIP2 Compression 1.1.12

256MB File Compression



1. (CXX) g++ options: -O2 -pthread -jbz2 -lpthread

POV-Ray 3.7.0.7

Trace Time



1. (CXX) g++ options: -pipe -O3 -ffast-math -march=native -pthread -fSM -fICE -fX11 -ftiff -fjpeg -fpng -fz -frt -fim -fboost_thread -fboost_system

Gzip Compression

Linux Source Tree Archiving To .tar.gz



XZ Compression 5.2.4

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



1. (CC) gcc options: -std=gnu99 -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 -lzma

ddraw

RAW To PPM Image Conversion



1. (CC) gcc options: -lm

FLAC Audio Encoding 1.3.2

WAV To FLAC



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

LAME MP3 Encoding 3.100

WAV To MP3



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

eSpeak Speech Engine 1.48.04

Text-To-Speech Synthesis



1. (CXX) g++ options: -stdc++ -lespeak -O2 -fpic -fvisibility=hidden -pedantic -fno-exceptions

FFmpeg 4.0.2

H.264 HD To NTSC DV



1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -lm -lxcb -xcb-shm -xcb-shape -xcb-xfixes -pthread -lbz2 -llz

GnuPG 1.4.22

2GB File Encryption



1. (CC) gcc options: -O2 -MT -MD -MP -MF

Minion 1.8

Solitaire



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

Sudokut 0.4

Total Time



OpenSSL 1.1.1

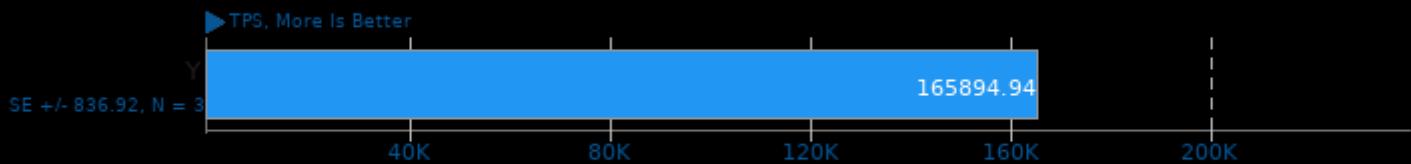
RSA 4096-bit Performance



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

PostgreSQL pgbench 12.0

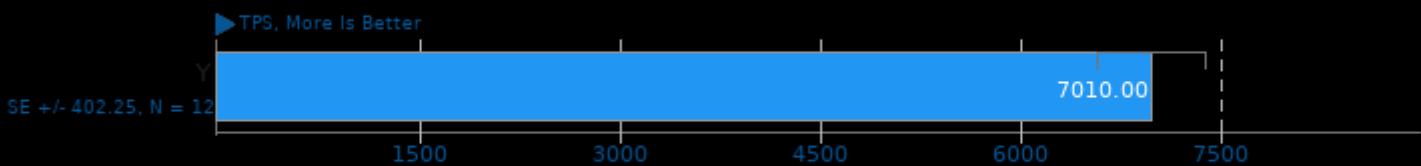
Scaling: Buffer Test - Test: Normal Load - Mode: Read Only



1. (CC) gcc options: -std=gnu99 -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -lcrypt -ldl -lm

PostgreSQL pgbench 12.0

Scaling: Buffer Test - Test: Normal Load - Mode: Read Write



1. (CC) gcc options: -std=gnu99 -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -lcrypt -ldl -lm

PostgreSQL pgbench 12.0

Scaling: Buffer Test - Test: Single Thread - Mode: Read Only



1. (CC) gcc options: -std=gnu99 -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -lcrypt -ldl -lm

PostgreSQL pgbench 12.0

Scaling: Buffer Test - Test: Single Thread - Mode: Read Write



1. (CC) gcc options: -std=gnu99 -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -lcrypt -ldl -lm

PostgreSQL pgbench 12.0

Scaling: Buffer Test - Test: Heavy Contention - Mode: Read Only



1. (CC) gcc options: -std=gnu99 -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -lcrypt -ldl -lm

PostgreSQL pgbench 12.0

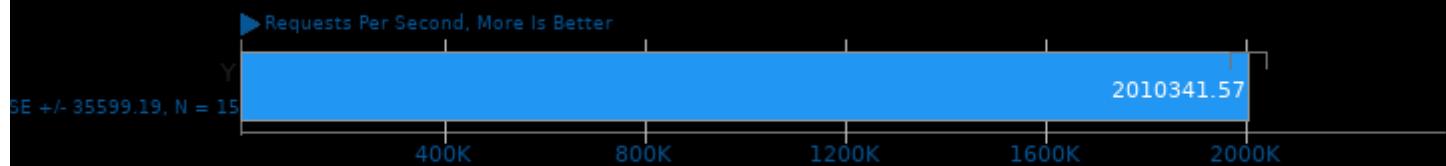
Scaling: Buffer Test - Test: Heavy Contention - Mode: Read Write



1. (CC) gcc options: -std=gnu99 -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -lcrypt -ldl -lm

Redis 5.0.5

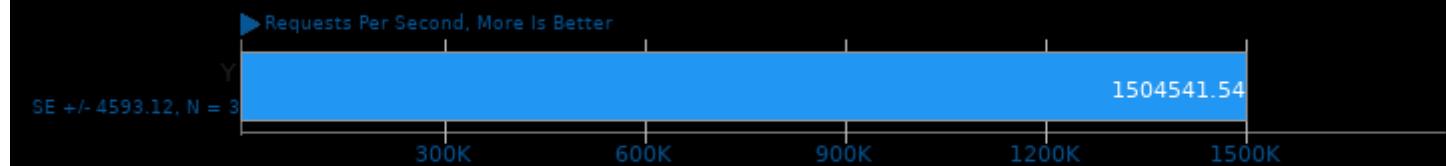
Test: LPOP



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

Redis 5.0.5

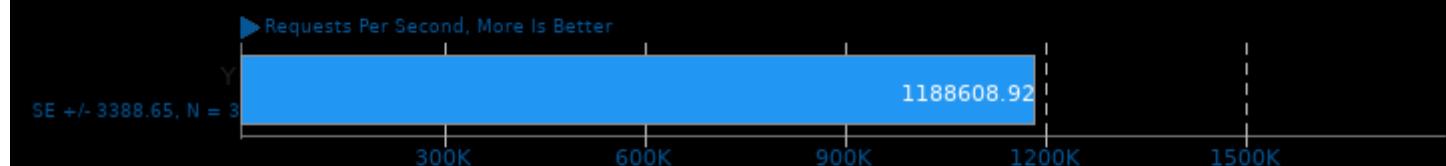
Test: SADD



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

Redis 5.0.5

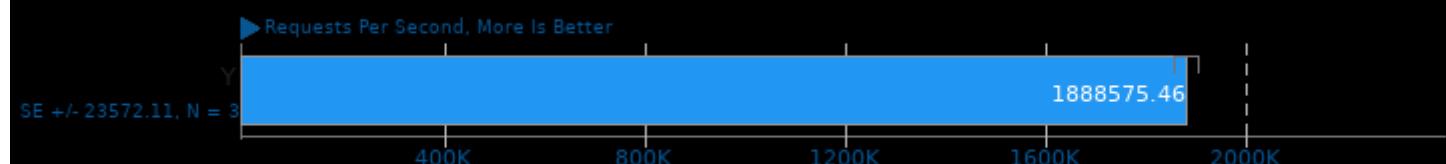
Test: LPUSH



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

Redis 5.0.5

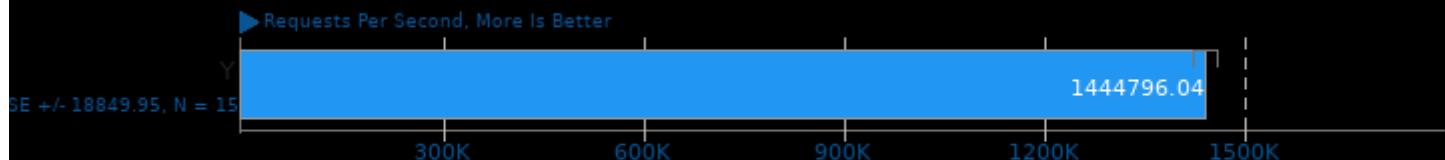
Test: GET



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

Redis 5.0.5

Test: SET



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

NGINX Benchmark 1.9.9

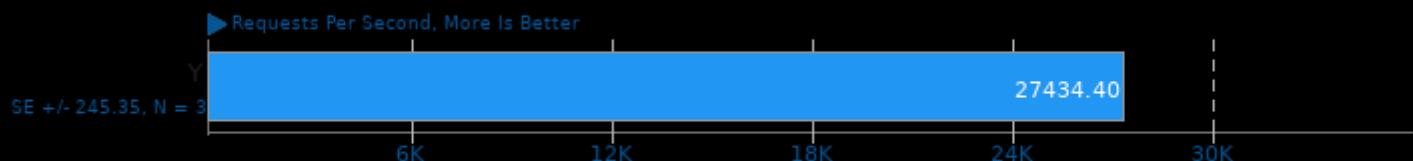
Static Web Page Serving



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

Apache Benchmark 2.4.29

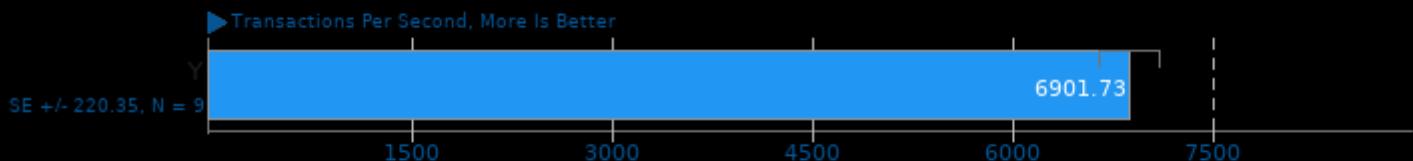
Static Web Page Serving



1. (CC) gcc options: -shared -fPIC -O2 -pthread

Apache Siege 2.4.29

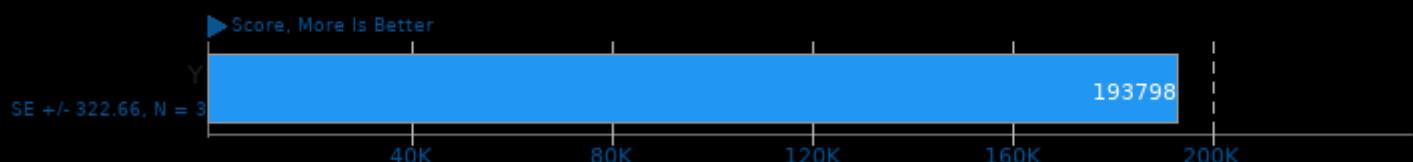
Concurrent Users: 250



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

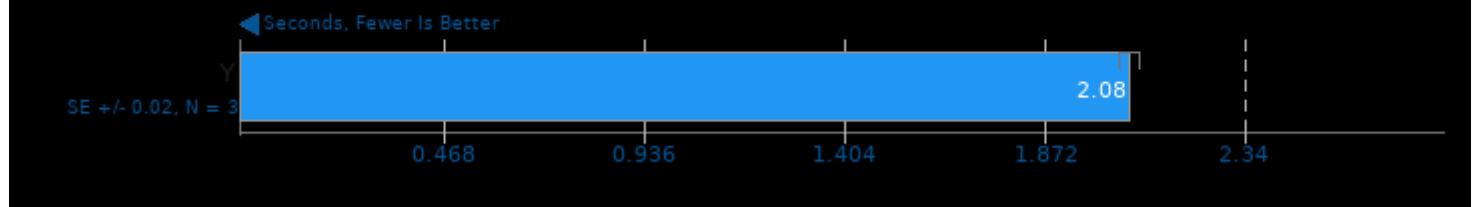
PHPBench 0.8.1

PHP Benchmark Suite



Sunflow Rendering System 0.07.2

Global Illumination + Image Synthesis



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