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xeon silver okt

Intel Xeon Silver 4216 testing with a TYAN S7100AG2NR (V4.02 BIOS) and ASPEED on Debian 10 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 58% of the tests.

Based on the geometric mean of all complete results, the fastest (1) was 1.012x the speed of the slowest (2).

The results with the greatest spread from best to worst included:

Stress-NG (Test: CPU Cache) at 1.165x
PostgreSQL pgbench (Scaling Factor: 100 - Clients: 50 - Mode: Read Write) at 1.152x
PostgreSQL pgbench (Scaling Factor: 100 - Clients: 50 - Mode: Read Write - Average Latency) at 1.152x
Cpuminer-Opt (Algorithm: Blake-2 S) at 1.124x
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 50 - Mode: Read Write - Average Latency) at 1.103x
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 50 - Mode: Read Write) at 1.103x
FLAC Audio Encoding (WAV To FLAC) at 1.072x
Cpuminer-Opt (Algorithm: LBC, LBRY Credits) at 1.066x
Stress-NG (Test: Context Switching) at 1.064x
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 500 - Mode: Read Write - Average Latency) at 1.051x.

Test Systems:

1

2

Processor: Intel Xeon Silver 4216 @ 3.20GHz (16 Cores / 32 Threads), Motherboard: TYAN S7100AG2NR (V4.02 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 24GB, Disk: 240GB Corsair Force MP500, Graphics: ASPEED, Audio: Realtek ALC892, Network: 2 x Intel I350

OS: Debian 10, Kernel: 4.19.0-9-amd64 (x86_64), Desktop: GNOME Shell 3.30.2, Display Server: X Server, Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1024x768

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x500002c
Python Notes: Python 2.7.16 + Python 3.7.3
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Mitigation of TSX disabled

	1	2
JPEG XL libjxl - PNG - 7 (MP/s)	**8.24**	**8.22**
Normalized	100%	99.76%
JPEG XL libjxl - PNG - 8 (MP/s)	0.63	0.63
JPEG XL libjxl - JPEG - 7 (MP/s)	**57.92**	**57.48**
Normalized	100%	99.24%
JPEG XL libjxl - JPEG - 8 (MP/s)	**20.46**	**20.41**
Normalized	100%	99.76%
JPEG XL Decoding libjxl - 1 (MP/s)	**32.86**	**32.98**
Normalized	99.64%	100%
JPEG XL Decoding libjxl - All (MP/s)	**272.21**	**271.18**
Normalized	100%	99.62%
Timed LLVM Compilation - Ninja (sec)	**477.951**	**478.215**
Normalized	100%	99.94%
Timed LLVM Compilation - Unix Makefiles (sec)	**538.093**	**533.093**
Normalized	99.07%	100%
FLAC Audio Encoding - WAV To FLAC (sec)	**23.249**	**24.912**
Normalized	100%	93.32%
Cpuminer-Opt - Magi (kH/s)	**300.13**	**308.62**
Normalized	97.25%	100%
Cpuminer-Opt - x25x (kH/s)	**323.7**	**324.89**
Normalized	99.63%	100%
Cpuminer-Opt - Deepcoin (kH/s)	**9837**	**9925**
Normalized	99.11%	100%
Cpuminer-Opt - Ringcoin (kH/s)	**2127**	**2101**
Normalized	100%	98.79%

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Cpuminer-Opt - Blake-2 S (kH/s)	**866280**	**770470**
Normalized	100%	88.94%
Cpuminer-Opt - Garlicoin (kH/s)	**4607**	**4593**
Normalized	100%	99.7%
Cpuminer-Opt - Skeincoin (kH/s)	**102150**	**101890**
Normalized	100%	99.75%
Cpuminer-Opt - Myriad-Groestl (kH/s)	**14420**	**14390**
Normalized	100%	99.79%
Cpuminer-Opt - LBC, LBRY Credits (kH/s)	**76560**	**71800**
Normalized	100%	93.78%
Cpuminer-Opt - Q.S.2.P (kH/s)	**154460**	**154710**
Normalized	99.84%	100%
Cpuminer-Opt - T.S.2.O (kH/s)	**223750**	**226320**
Normalized	98.86%	100%
OpenSSL - SHA256 (byte/s)	**3760751800**	**3759698220**
Normalized	100%	99.97%
OpenSSL - RSA4096 (sign/s)	**3310**	**3272**
Normalized	100%	98.85%
OpenSSL - RSA4096 (verify/s)	**216885**	**217034**
Normalized	99.93%	100%
PostgreSQL pgbench - 1 - 50 - Read Only (TPS)	**463539**	**462551**
Normalized	100%	99.79%
PostgreSQL pgbench - 1 - 50 - Read Only - Average Latency (ms)	0.108	0.108
PostgreSQL pgbench - 1 - 100 - Read Only (TPS)	**428743**	**430311**
Normalized	99.64%	100%
PostgreSQL pgbench - 1 - 100 - Read Only - Average Latency (ms)	**0.233**	**0.232**
Normalized	99.57%	100%
PostgreSQL pgbench - 1 - 250 - Read Only (TPS)	**438384**	**437740**
Normalized	100%	99.85%
PostgreSQL pgbench - 1 - 250 - Read Only - Average Latency (ms)	**0.57**	**0.571**
Normalized	100%	99.82%
PostgreSQL pgbench - 1 - 50 - Read Write (TPS)	**760**	**689**
Normalized	100%	90.66%
PostgreSQL pgbench - 1 - 50 - Read Write - Average Latency (ms)	**65.828**	**72.62**
Normalized	100%	90.65%
PostgreSQL pgbench - 1 - 500 - Read Only (TPS)	**396772**	**398803**
Normalized	99.49%	100%
PostgreSQL pgbench - 1 - 500 - Read Only - Average Latency (ms)	**1.26**	**1.254**
Normalized	99.52%	100%
PostgreSQL pgbench - 1 - 100 - Read Write (TPS)	642	642
PostgreSQL pgbench - 1 - 100 - Read Write - Average Latency (ms)	**155.65**	**155.812**
Normalized	100%	99.9%
PostgreSQL pgbench - 1 - 250 - Read Write (TPS)	**583**	**607**
Normalized	96.05%	100%

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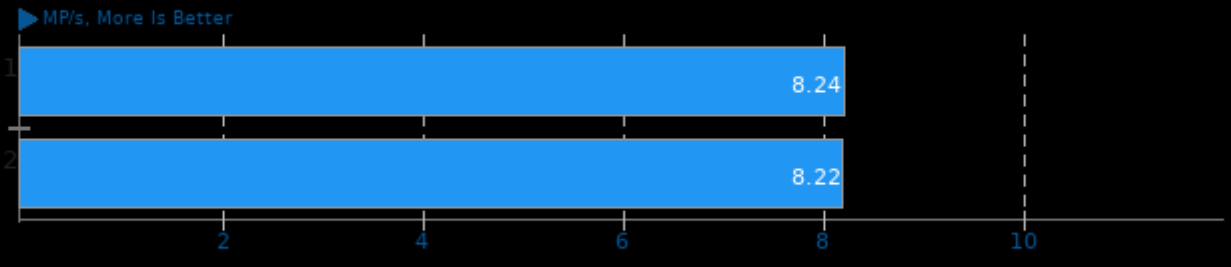
PostgreSQL pgbench - 1 - 250 - Read Write - Average Latency (ms)	428.505	411.99
Normalized	96.15%	100%
PostgreSQL pgbench - 1 - 500 - Read Write (TPS)	423	403
Normalized	100%	95.27%
PostgreSQL pgbench - 1 - 500 - Read Write - Average Latency (ms)	1182	1242
Normalized	100%	95.18%
PostgreSQL pgbench - 100 - 50 - Read Only (TPS)	443613	445332
Normalized	99.61%	100%
PostgreSQL pgbench - 100 - 50 - Read Only - Average Latency (ms)	0.113	0.112
Normalized	99.12%	100%
PostgreSQL pgbench - 100 - 100 - Read Only (TPS)	415062	415219
Normalized	99.96%	100%
PostgreSQL pgbench - 100 - 100 - Read Only - Average Latency (ms)	0.241	0.241
PostgreSQL pgbench - 100 - 250 - Read Only (TPS)	408053	413368
Normalized	98.71%	100%
PostgreSQL pgbench - 100 - 250 - Read Only - Average Latency (ms)	0.613	0.605
Normalized	98.69%	100%
PostgreSQL pgbench - 100 - 50 - Read Write (TPS)	9393	8152
Normalized	100%	86.79%
PostgreSQL pgbench - 100 - 50 - Read Write - Average Latency (ms)	5.323	6.133
Normalized	100%	86.79%
PostgreSQL pgbench - 100 - 500 - Read Only (TPS)	375581	378262
Normalized	99.29%	100%
PostgreSQL pgbench - 100 - 500 - Read Only - Average Latency (ms)	1.331	1.322
Normalized	99.32%	100%
PostgreSQL pgbench - 100 - 100 - Read Write (TPS)	11276	11332
Normalized	99.51%	100%
PostgreSQL pgbench - 100 - 100 - Read Write - Average Latency (ms)	8.868	8.825
Normalized	99.52%	100%
PostgreSQL pgbench - 100 - 250 - Read Write (TPS)	13818	13229
Normalized	100%	95.74%
PostgreSQL pgbench - 100 - 250 - Read Write - Average Latency (ms)	18.092	18.898
Normalized	100%	95.73%
PostgreSQL pgbench - 100 - 500 - Read Write (TPS)	15167	14888
Normalized	100%	98.16%
PostgreSQL pgbench - 100 - 500 - Read Write - Average Latency (ms)	32.966	33.584
Normalized	100%	98.16%
Stress-NG - MMAP (Bogo Ops/s)	668.14	666.76
Normalized	100%	99.79%
Stress-NG - NUMA (Bogo Ops/s)	855.7	854.77
Normalized	100%	99.89%
Stress-NG - MEMFD (Bogo Ops/s)	1142	1141

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Normalized	100%	99.93%
Stress-NG - Atomic (Bogo Ops/s)	**138912**	**141499**
Normalized	98.17%	100%
Stress-NG - Crypto (Bogo Ops/s)	**2328**	**2328**
Normalized	99.98%	100%
Stress-NG - Malloc (Bogo Ops/s)	**142523925**	**142202669**
Normalized	100%	99.77%
Stress-NG - RdRand (Bogo Ops/s)	**251744**	**251754**
Normalized	100%	100%
Stress-NG - Forking (Bogo Ops/s)	**15195**	**14978**
Normalized	100%	98.58%
Stress-NG - SENDFILE (Bogo Ops/s)	**209156**	**208908**
Normalized	100%	99.88%
Stress-NG - CPU Cache (Bogo Ops/s)	**106.02**	**90.99**
Normalized	100%	85.82%
Stress-NG - CPU Stress (Bogo Ops/s)	**22975**	**22658**
Normalized	100%	98.62%
Stress-NG - Semaphores (Bogo Ops/s)	**2554738**	**2562160**
Normalized	99.71%	100%
Stress-NG - Matrix Math (Bogo Ops/s)	**65265**	**65744**
Normalized	99.27%	100%
Stress-NG - Vector Math (Bogo Ops/s)	**36401**	**36449**
Normalized	99.87%	100%
Stress-NG - Memory Copying (Bogo Ops/s)	**4731**	**4689**
Normalized	100%	99.11%
Stress-NG - Socket Activity (Bogo Ops/s)	**14690**	**14368**
Normalized	100%	97.81%
Stress-NG - Context Switching (Bogo Ops/s)	**6569976**	**6991831**
Normalized	93.97%	100%
Stress-NG - G.C.S.F (Bogo Ops/s)	**691883**	**694811**
Normalized	99.58%	100%
Stress-NG - G.Q.D.S (Bogo Ops/s)	**168.1**	**168.03**
Normalized	100%	99.96%
Stress-NG - S.V.M.P (Bogo Ops/s)	3946025	

JPEG XL libjxl 0.5

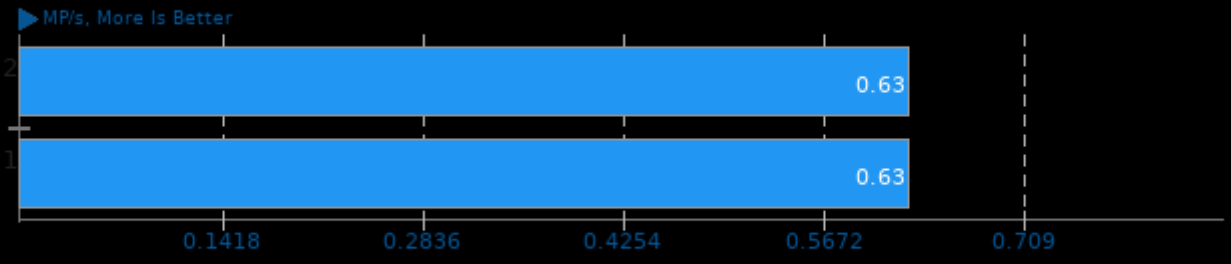
Input: PNG - Encode Speed: 7



1. (CXX) g++ options: -funwind-tables -O3 -O2 -lbrotlidec -lbrotlicommon -lbrotlienc -pthread

JPEG XL libjxl 0.5

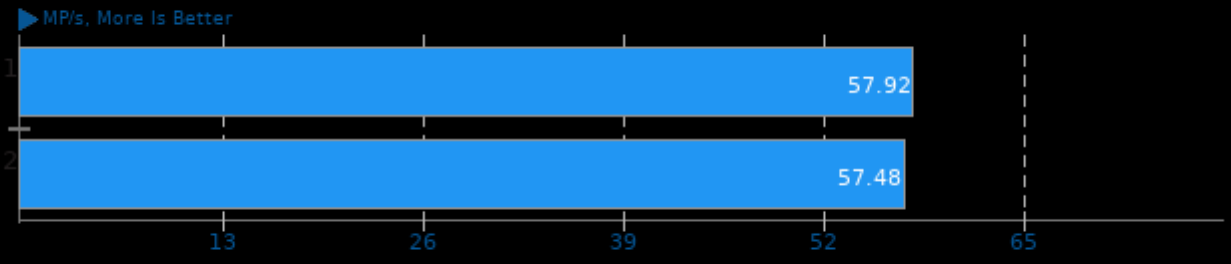
Input: PNG - Encode Speed: 8



1. (CXX) g++ options: -funwind-tables -O3 -O2 -lbrotlidec -lbrotlicommon -lbrotlienc -pthread

JPEG XL libjxl 0.5

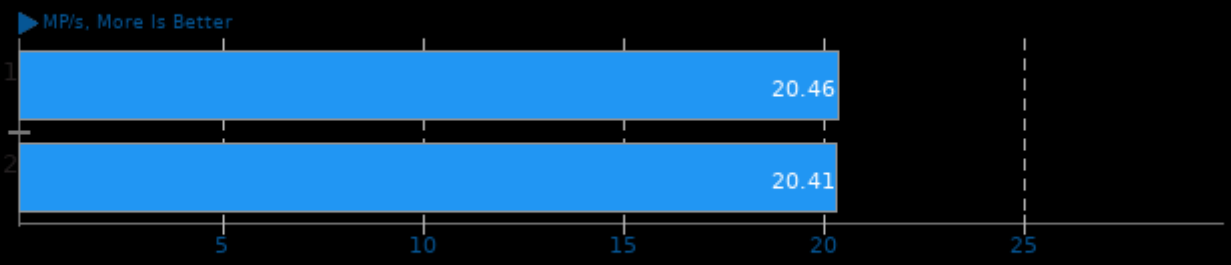
Input: JPEG - Encode Speed: 7



1. (CXX) g++ options: -funwind-tables -O3 -O2 -lbrotlidec -lbrotlicommon -lbrotlienc -pthread

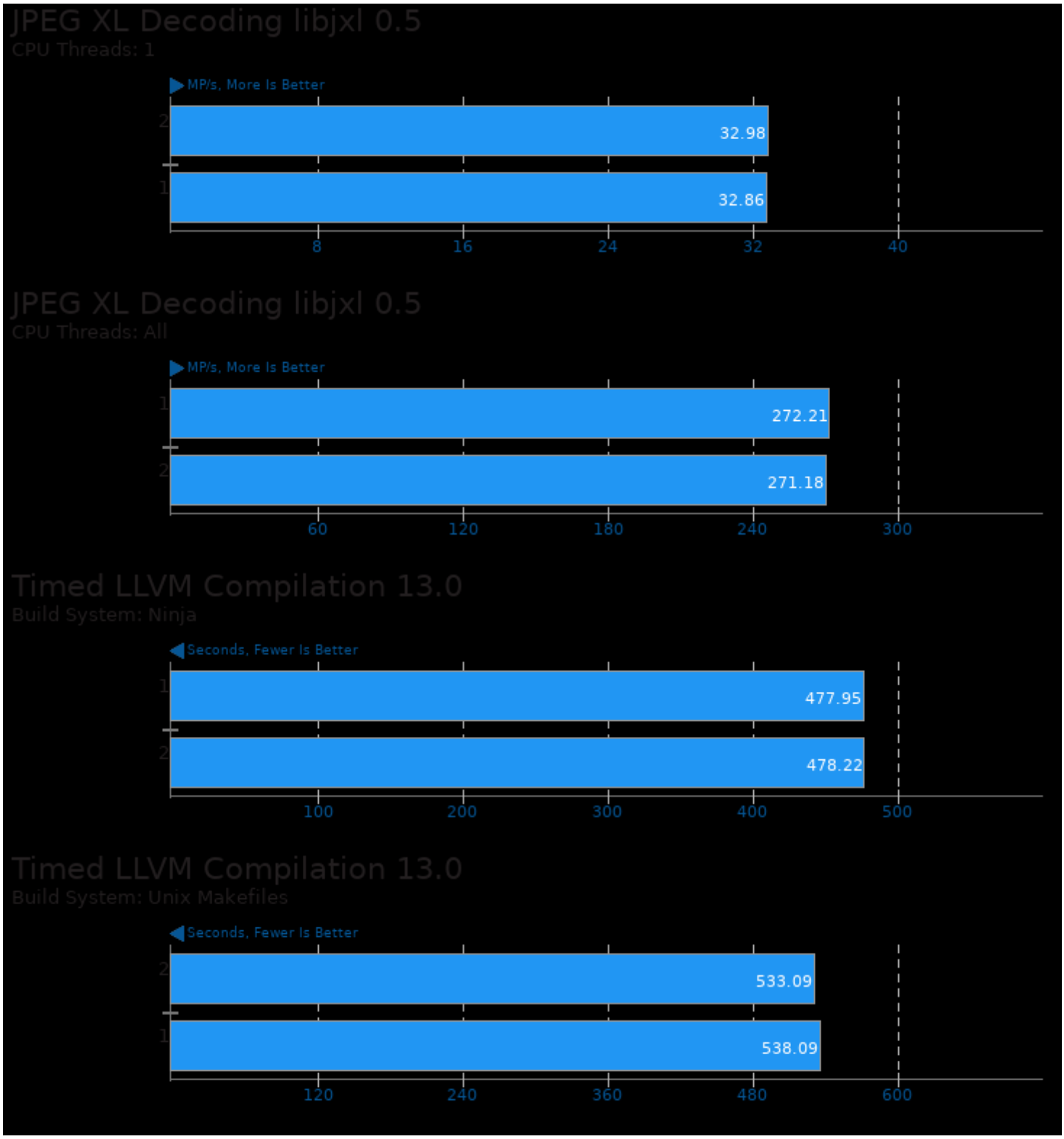
JPEG XL libjxl 0.5

Input: JPEG - Encode Speed: 8



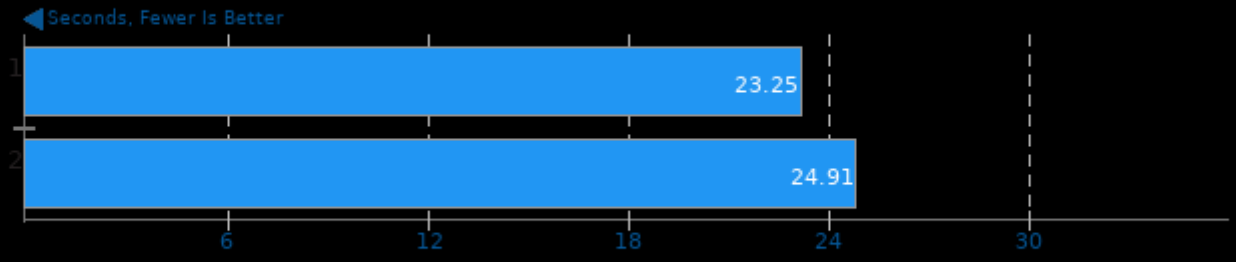
1. (CXX) g++ options: -funwind-tables -O3 -O2 -lbrotlidec -lbrotlicommon -lbrotlienc -pthread

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FLAC Audio Encoding 1.3.3

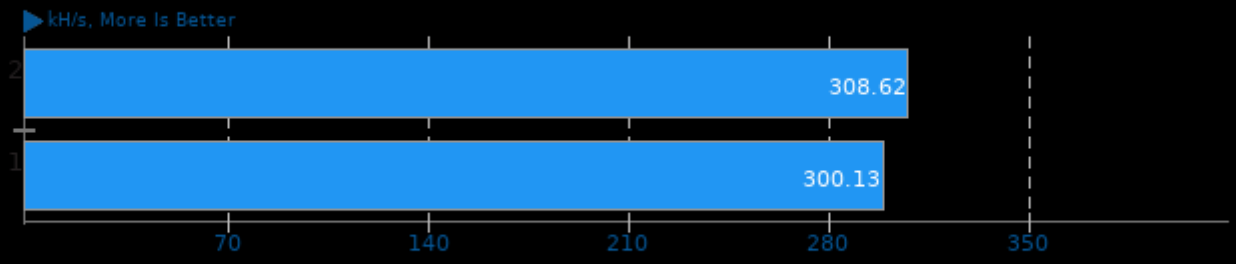
WAV To FLAC



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

Cpuminer-Opt 3.18

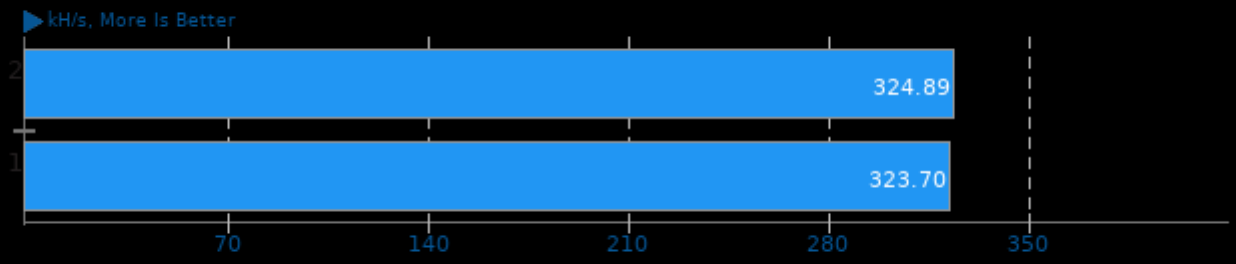
Algorithm: Magi



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

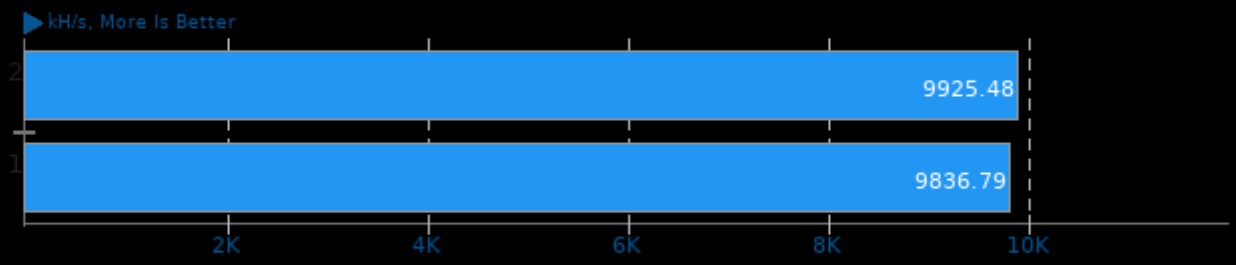
Algorithm: x25x



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

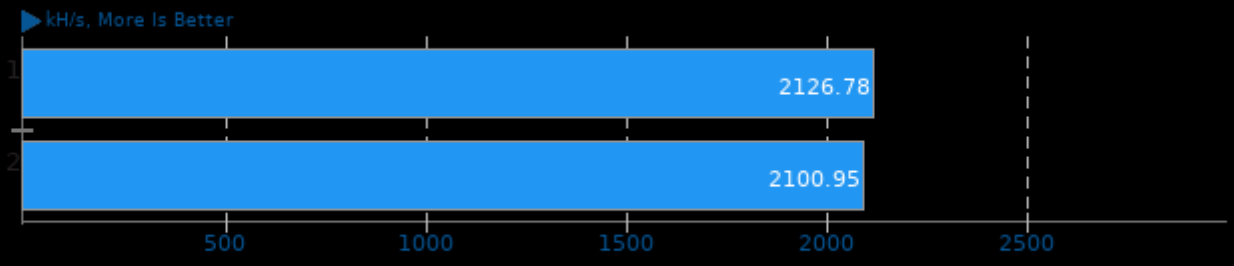
Algorithm: Deepcoin



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

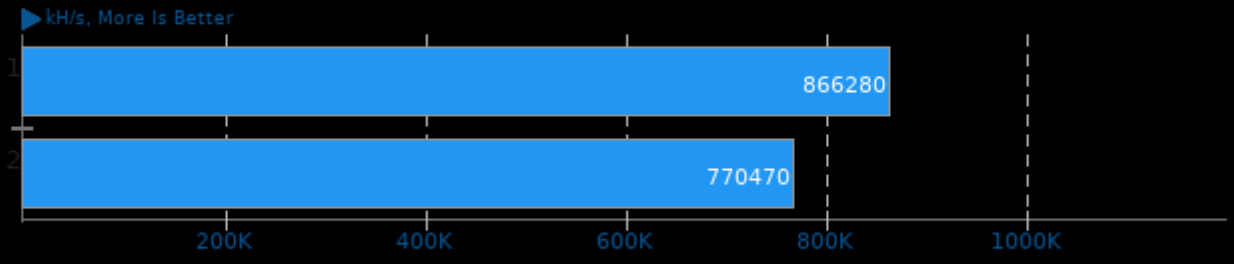
Algorithm: Ringcoin



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

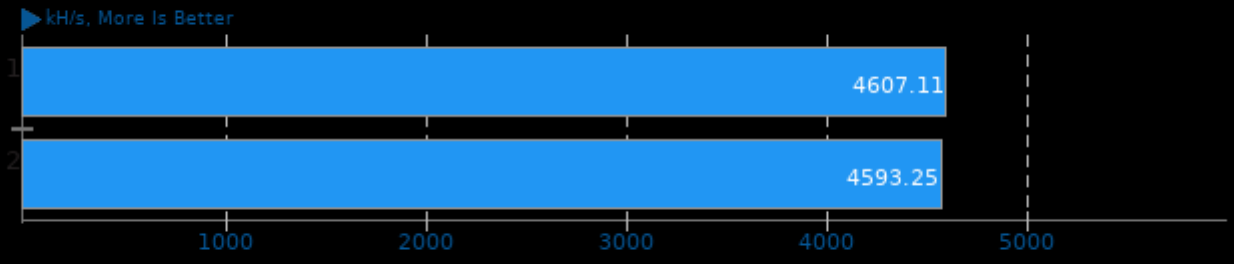
Algorithm: Blake-2 S



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

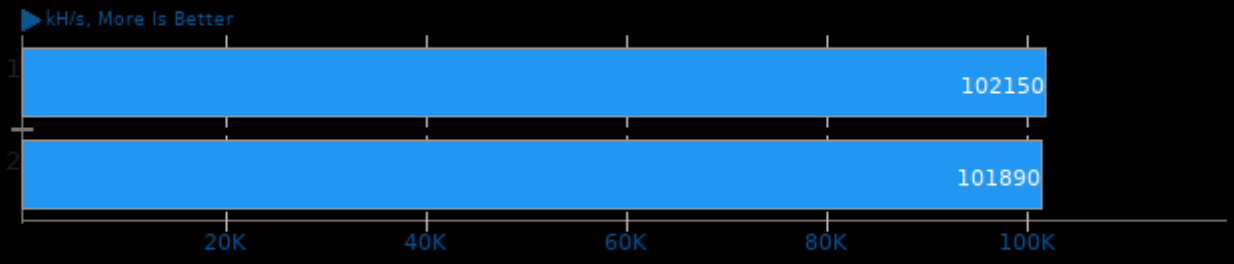
Algorithm: Garlicoin



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

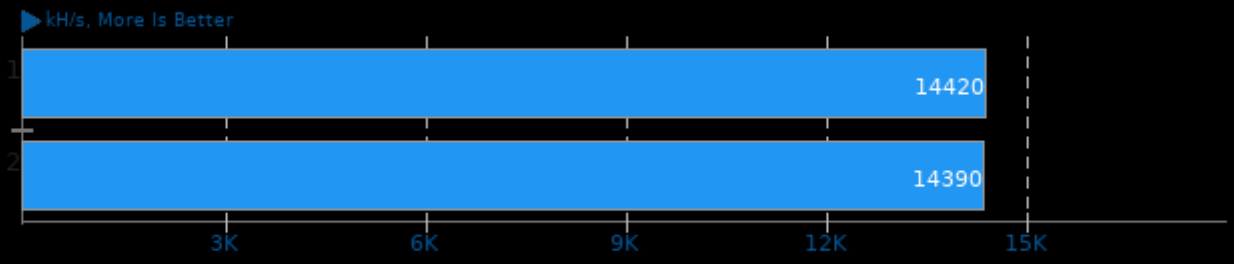
Algorithm: Skeincoin



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

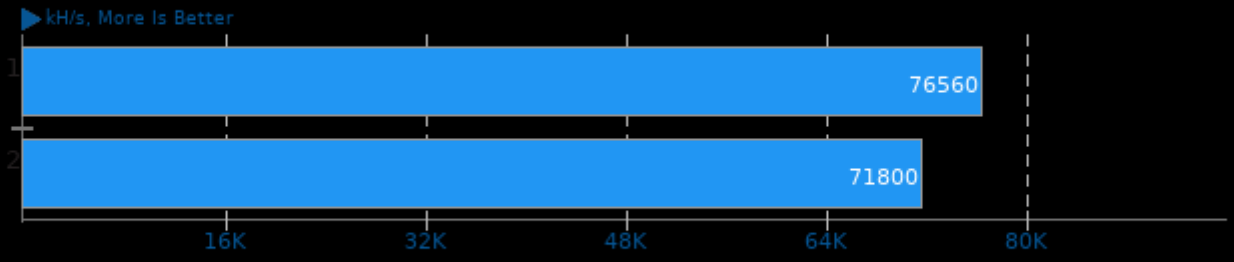
Algorithm: Myriad-Groestl



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

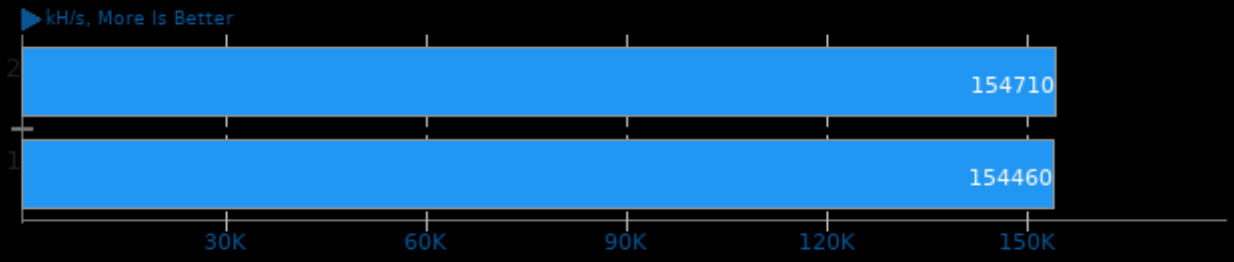
Algorithm: LBC, LBRY Credits



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

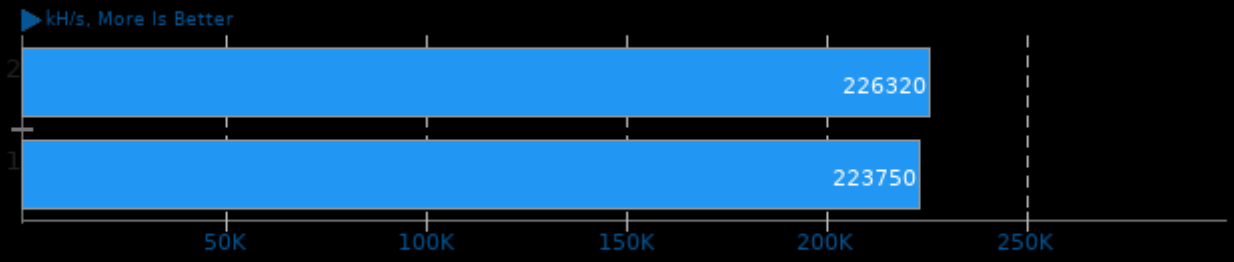
Algorithm: Quad SHA-256, Pyrite



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

Cpuminer-Opt 3.18

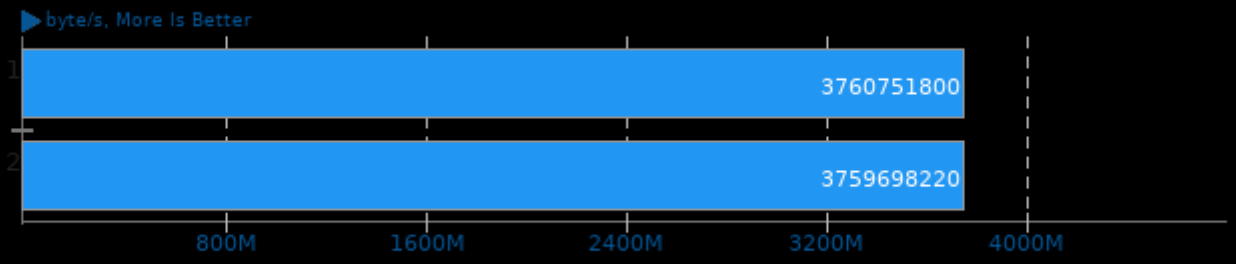
Algorithm: Triple SHA-256, Onecoin



1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

OpenSSL 3.0

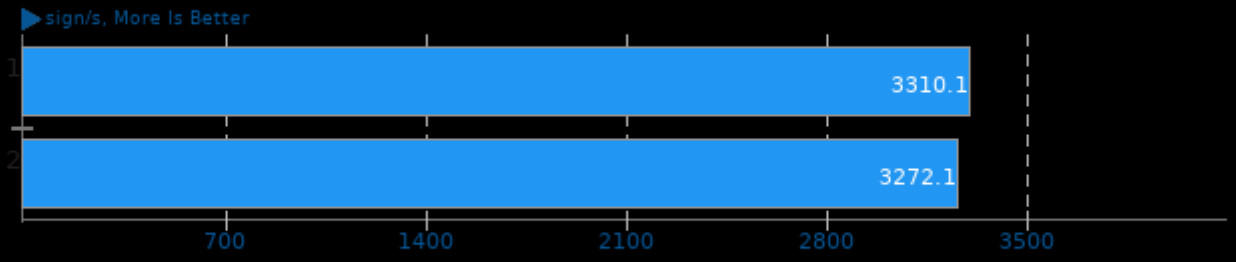
Algorithm: SHA256



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

OpenSSL 3.0

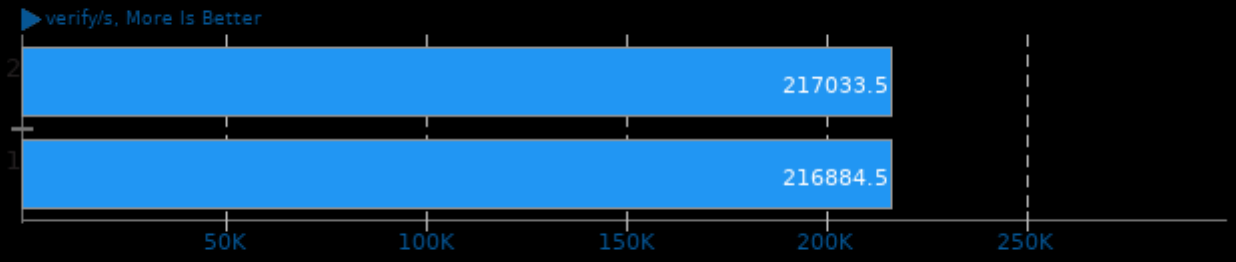
Algorithm: RSA4096



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

OpenSSL 3.0

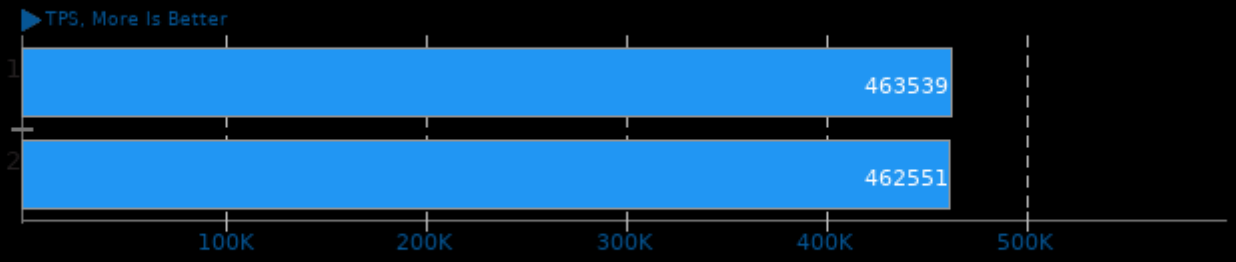
Algorithm: RSA4096



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

PostgreSQL pgbench 14.0

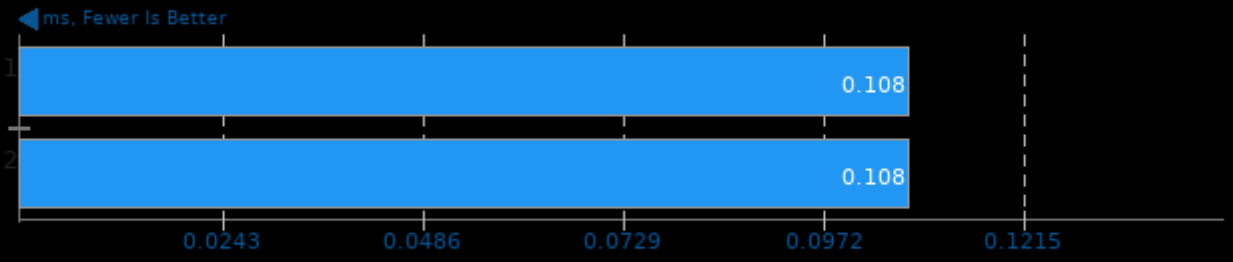
Scaling Factor: 1 - Clients: 50 - Mode: Read Only



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

PostgreSQL pgbench 14.0

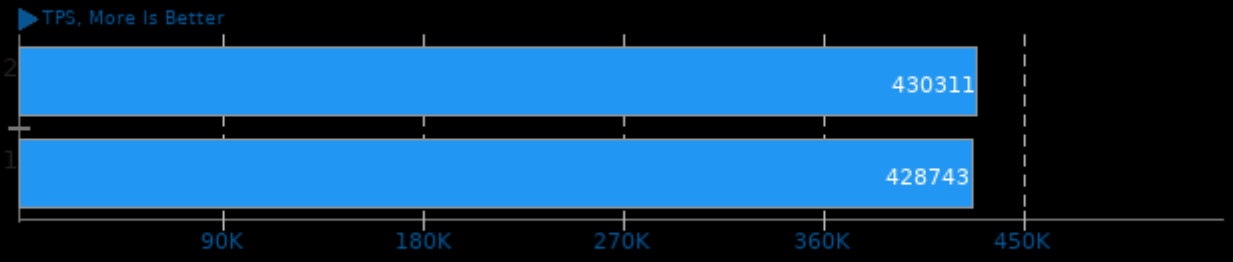
Scaling Factor: 1 - Clients: 50 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

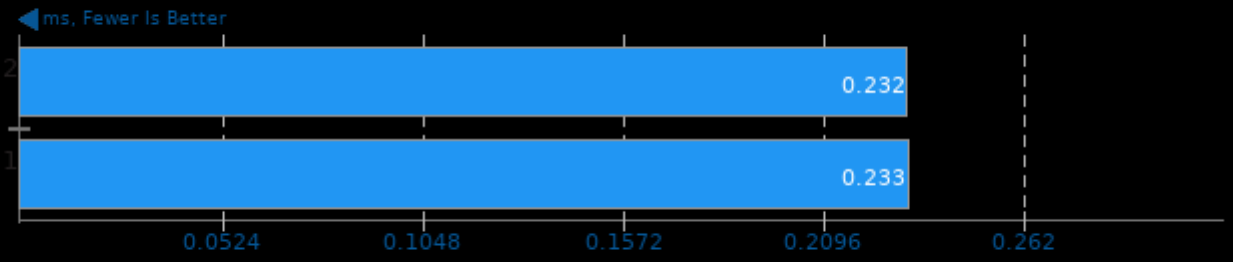
Scaling Factor: 1 - Clients: 100 - Mode: Read Only



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

PostgreSQL pgbench 14.0

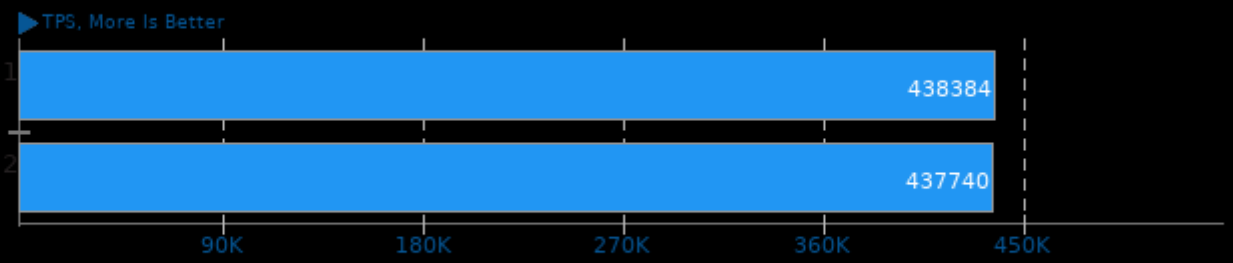
Scaling Factor: 1 - Clients: 100 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

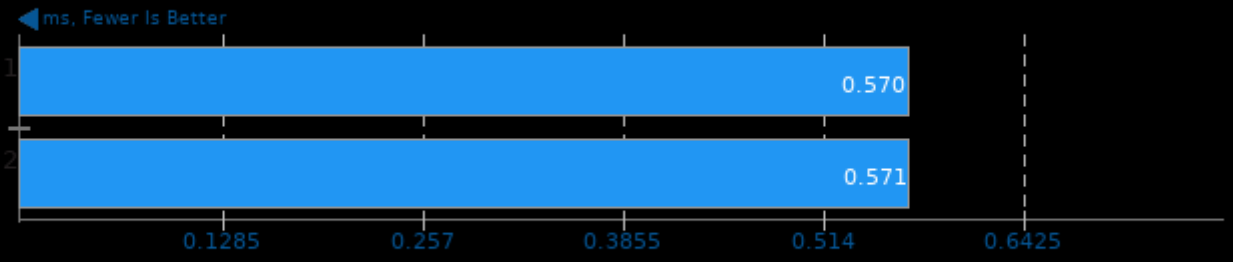
Scaling Factor: 1 - Clients: 250 - Mode: Read Only



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

PostgreSQL pgbench 14.0

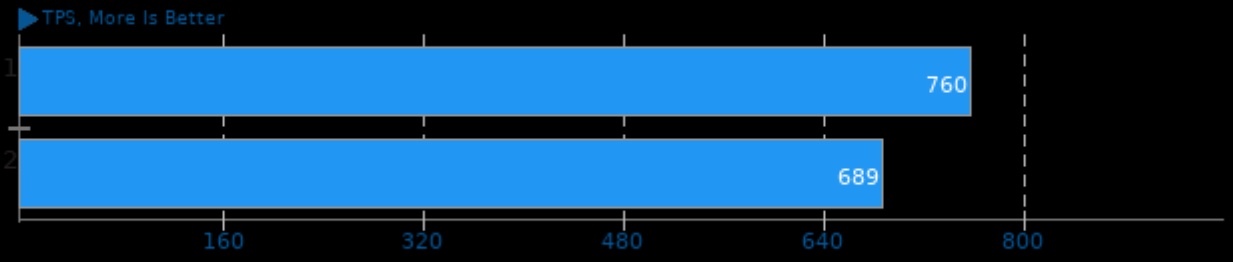
Scaling Factor: 1 - Clients: 250 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

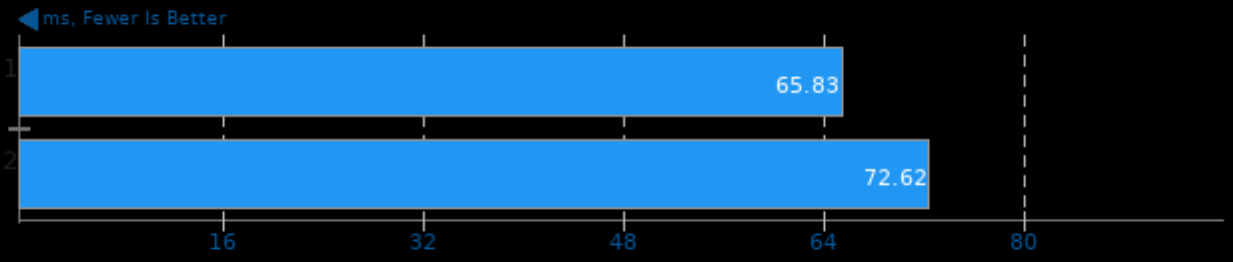
Scaling Factor: 1 - Clients: 50 - Mode: Read Write



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

PostgreSQL pgbench 14.0

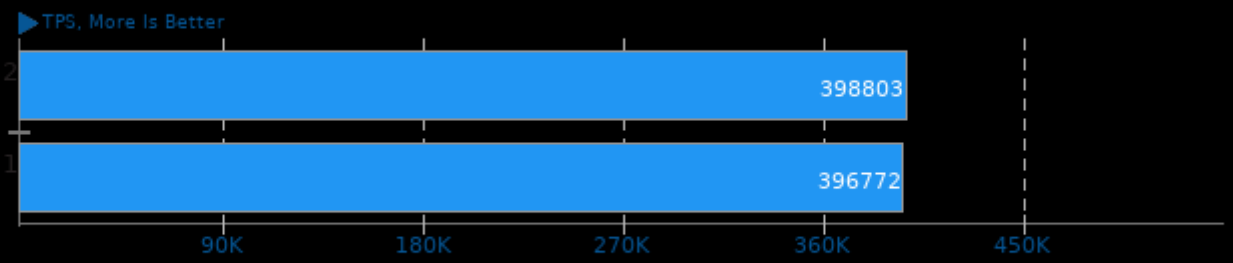
Scaling Factor: 1 - Clients: 50 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 14.0

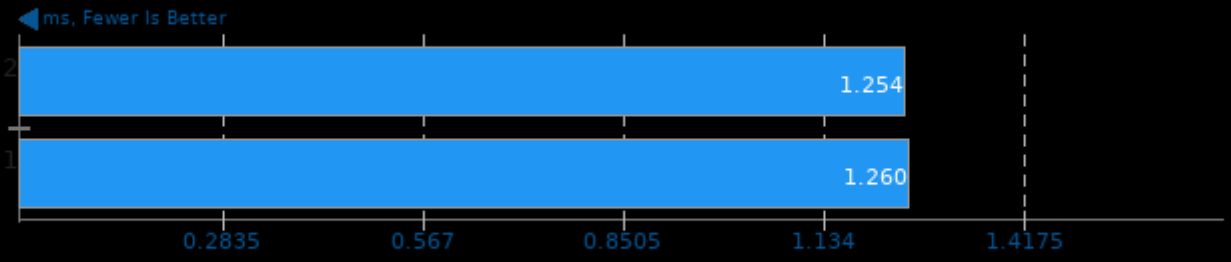
Scaling Factor: 1 - Clients: 500 - Mode: Read Only



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

PostgreSQL pgbench 14.0

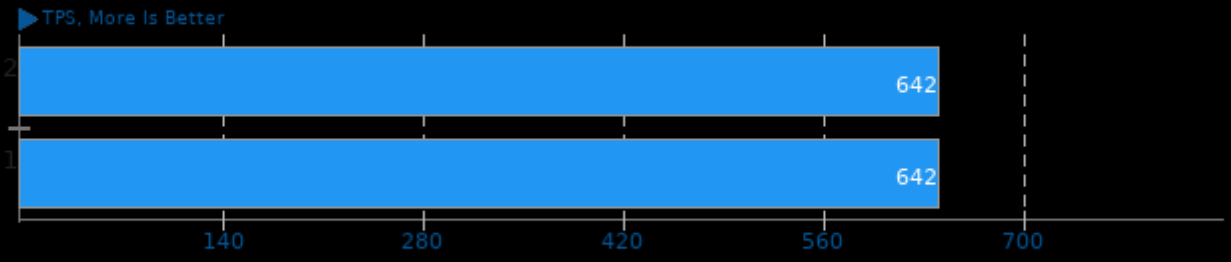
Scaling Factor: 1 - Clients: 500 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

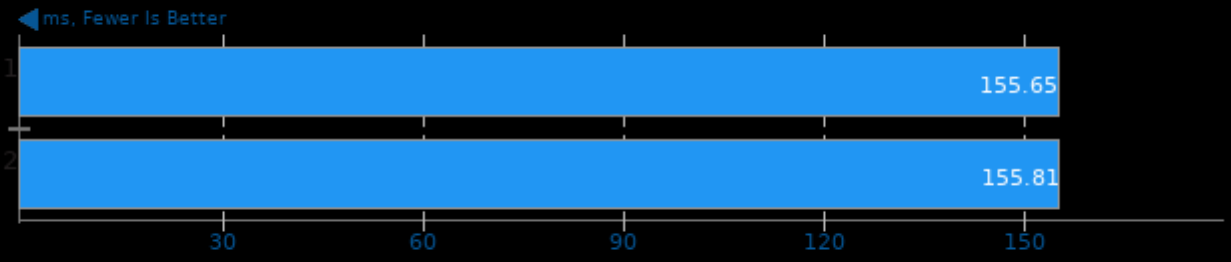
Scaling Factor: 1 - Clients: 100 - Mode: Read Write



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

PostgreSQL pgbench 14.0

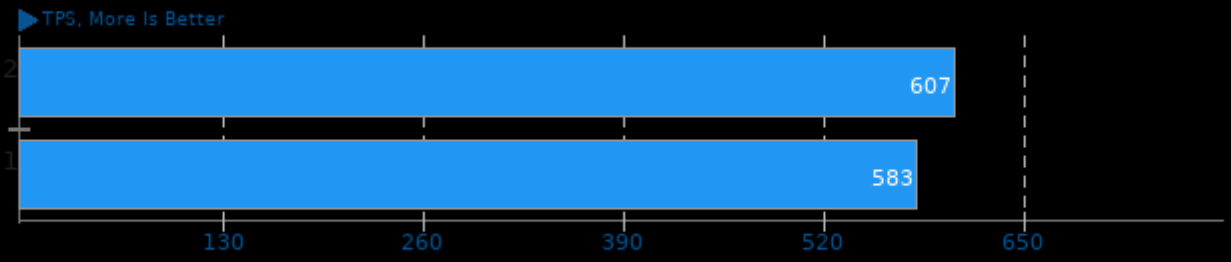
Scaling Factor: 1 - Clients: 100 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 14.0

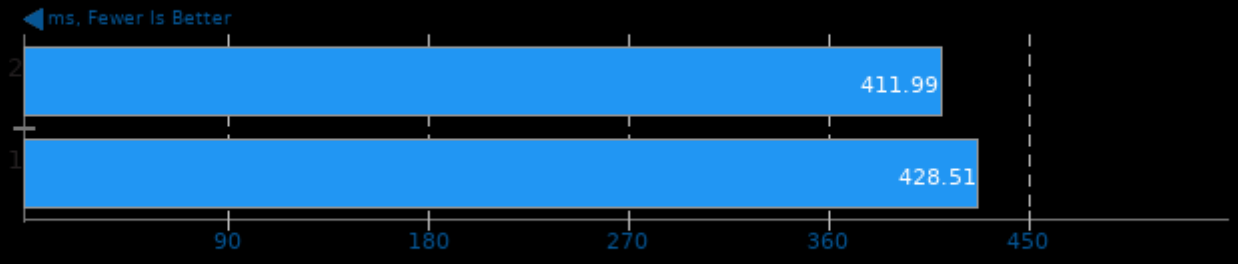
Scaling Factor: 1 - Clients: 250 - Mode: Read Write



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

PostgreSQL pgbench 14.0

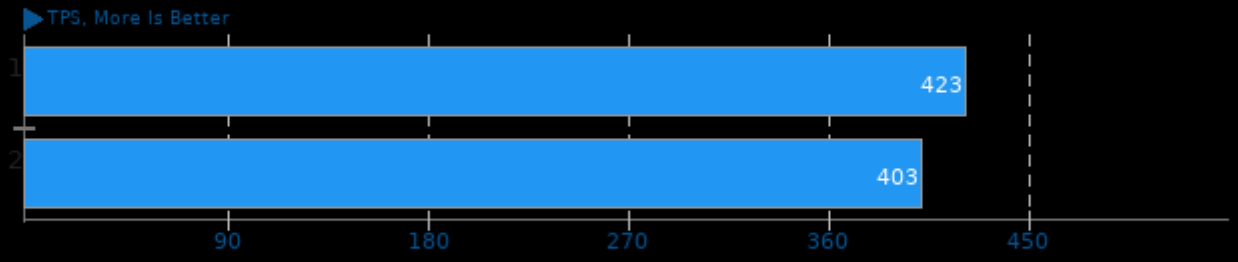
Scaling Factor: 1 - Clients: 250 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 14.0

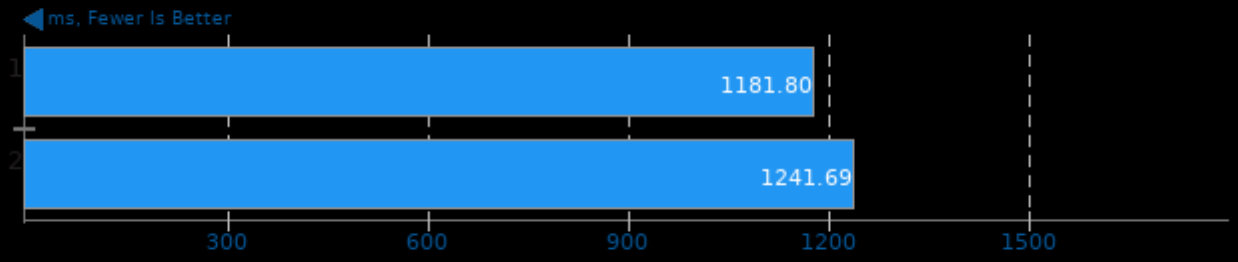
Scaling Factor: 1 - Clients: 500 - Mode: Read Write



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

PostgreSQL pgbench 14.0

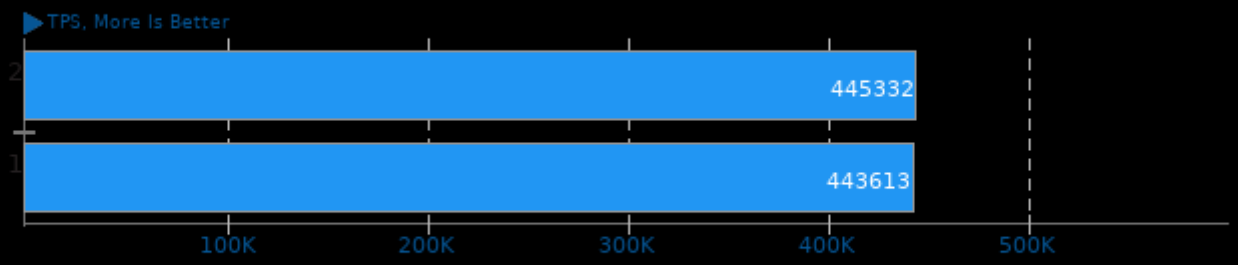
Scaling Factor: 1 - Clients: 500 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 14.0

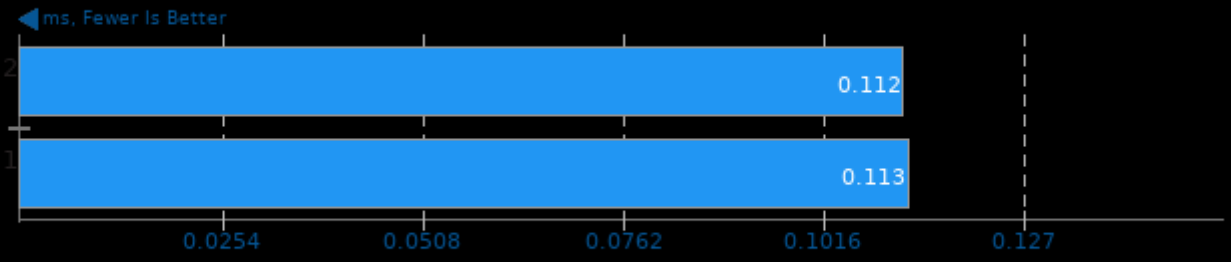
Scaling Factor: 100 - Clients: 50 - Mode: Read Only



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

PostgreSQL pgbench 14.0

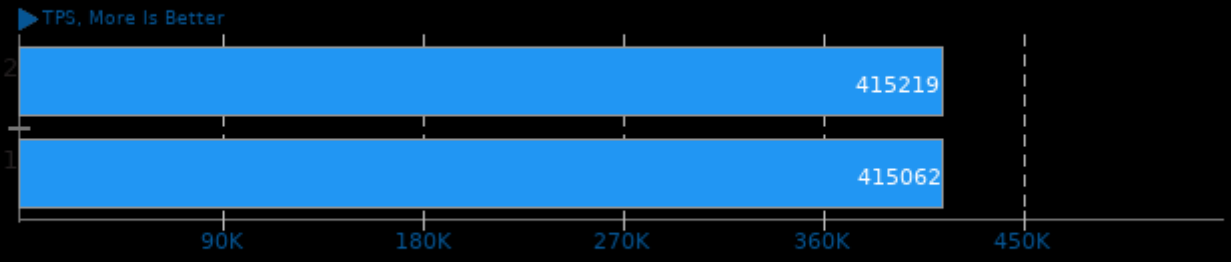
Scaling Factor: 100 - Clients: 50 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

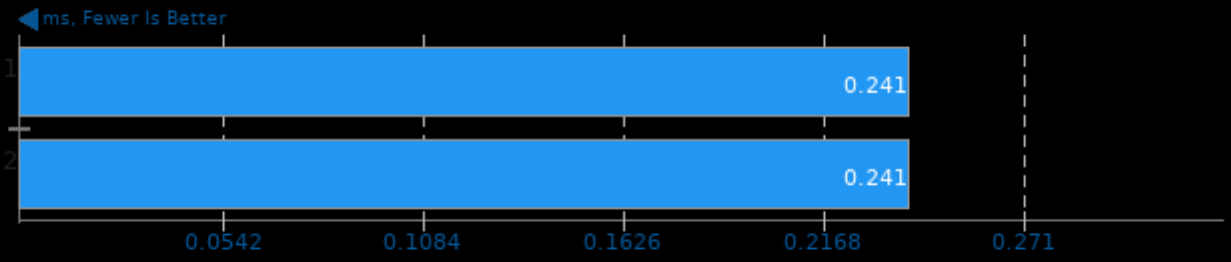
Scaling Factor: 100 - Clients: 100 - Mode: Read Only



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

PostgreSQL pgbench 14.0

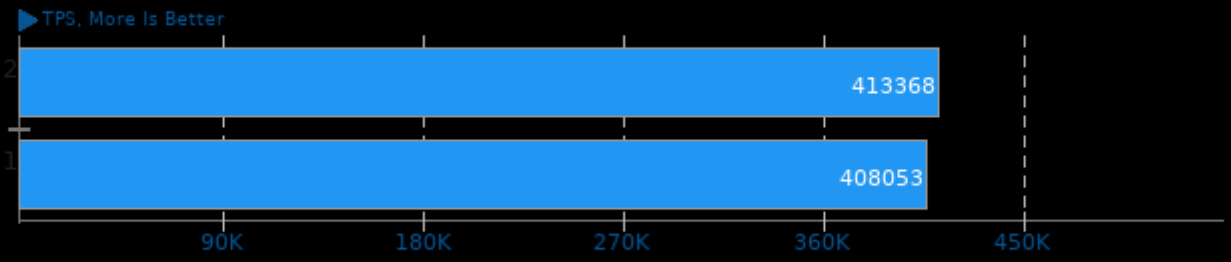
Scaling Factor: 100 - Clients: 100 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

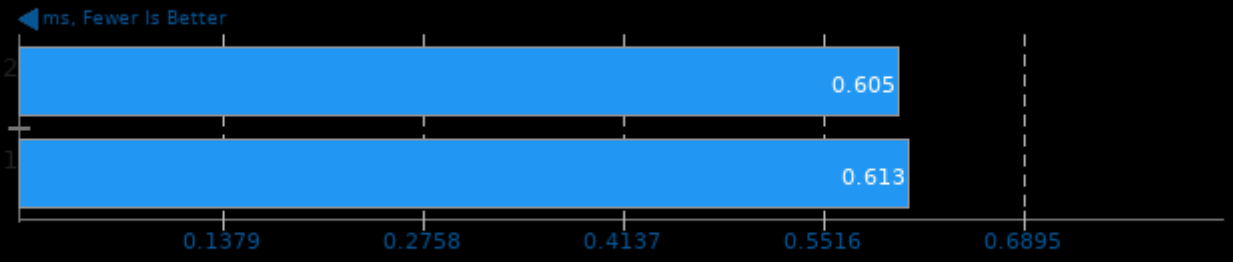
Scaling Factor: 100 - Clients: 250 - Mode: Read Only



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

PostgreSQL pgbench 14.0

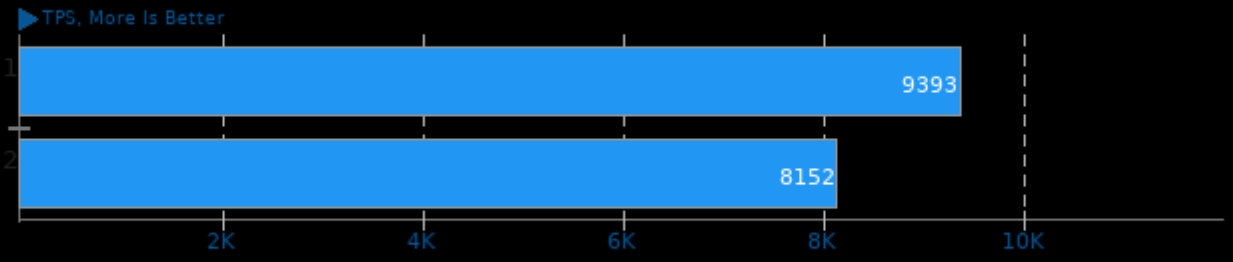
Scaling Factor: 100 - Clients: 250 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

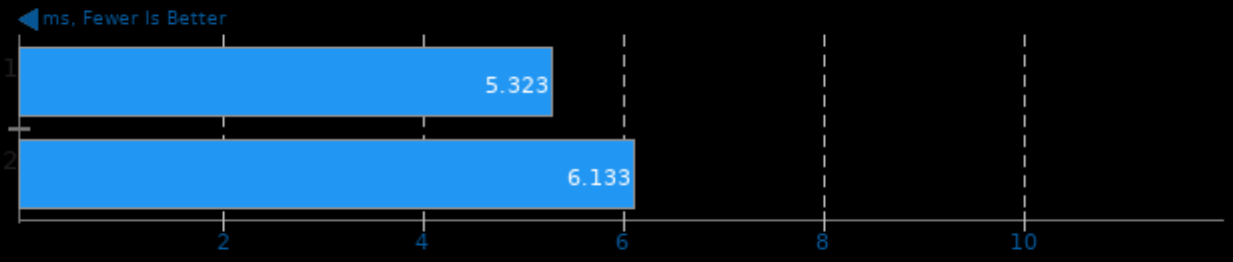
Scaling Factor: 100 - Clients: 50 - Mode: Read Write



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

PostgreSQL pgbench 14.0

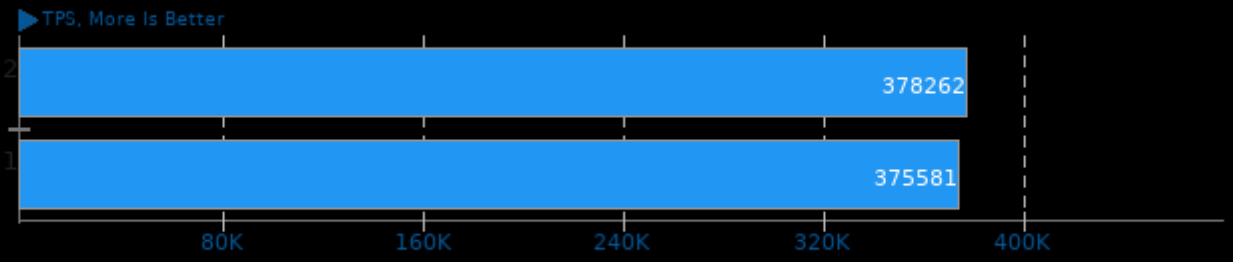
Scaling Factor: 100 - Clients: 50 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 14.0

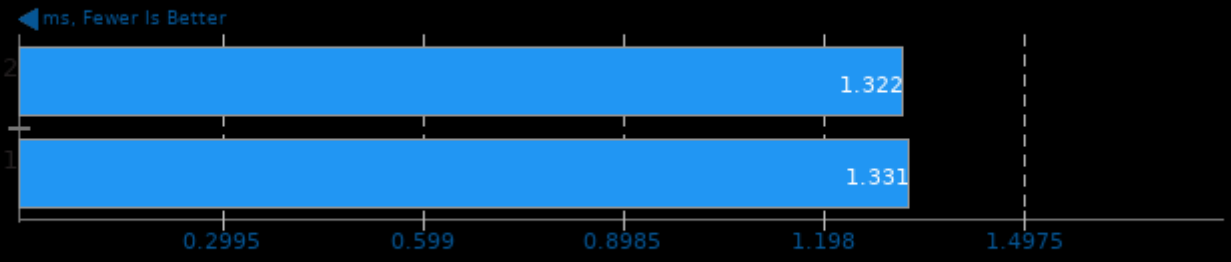
Scaling Factor: 100 - Clients: 500 - Mode: Read Only



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

PostgreSQL pgbench 14.0

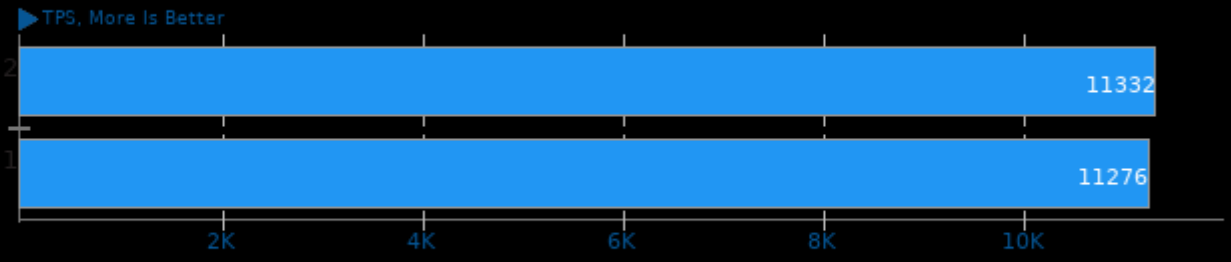
Scaling Factor: 100 - Clients: 500 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

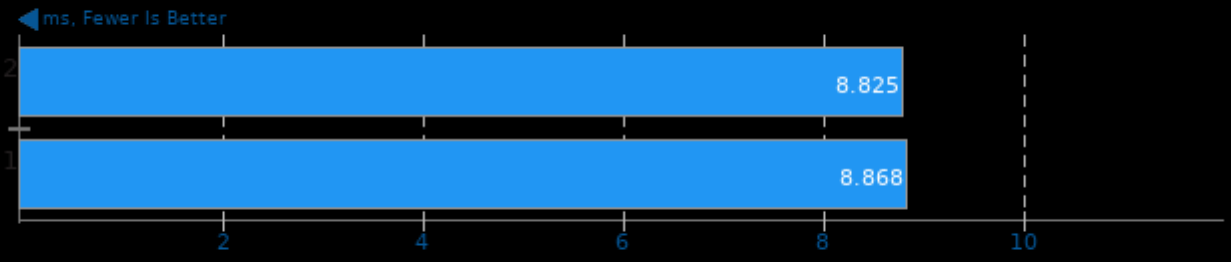
Scaling Factor: 100 - Clients: 100 - Mode: Read Write



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

PostgreSQL pgbench 14.0

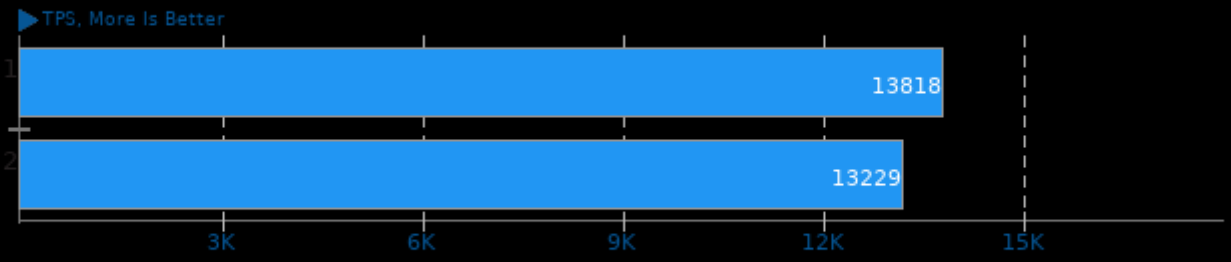
Scaling Factor: 100 - Clients: 100 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 14.0

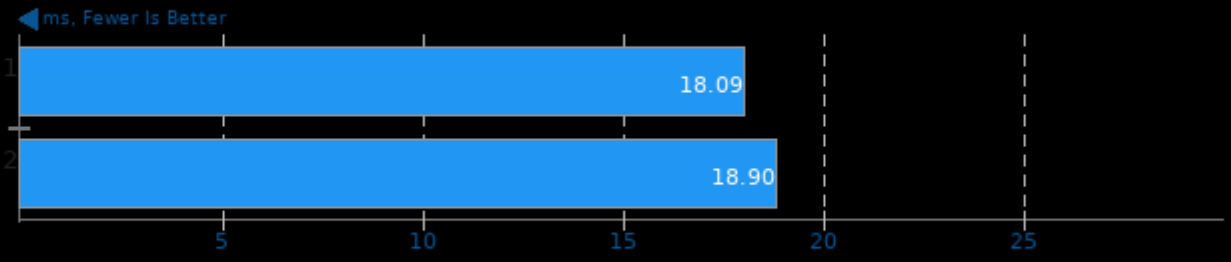
Scaling Factor: 100 - Clients: 250 - Mode: Read Write



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

PostgreSQL pgbench 14.0

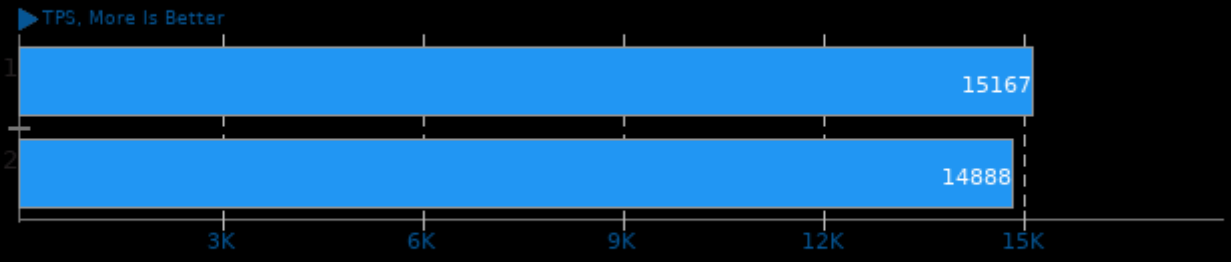
Scaling Factor: 100 - Clients: 250 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 14.0

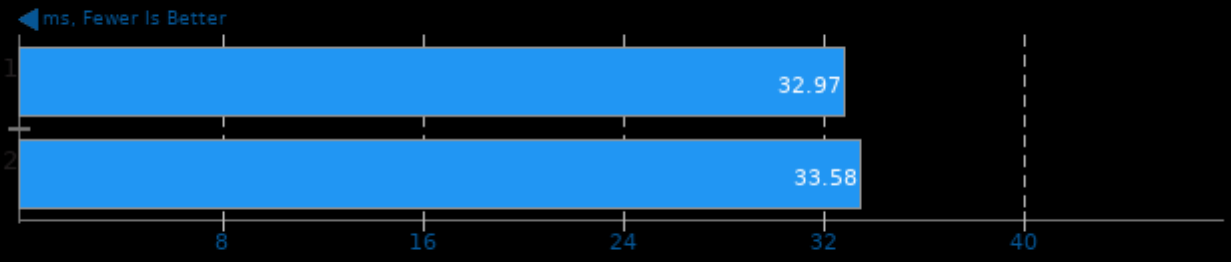
Scaling Factor: 100 - Clients: 500 - Mode: Read Write



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

PostgreSQL pgbench 14.0

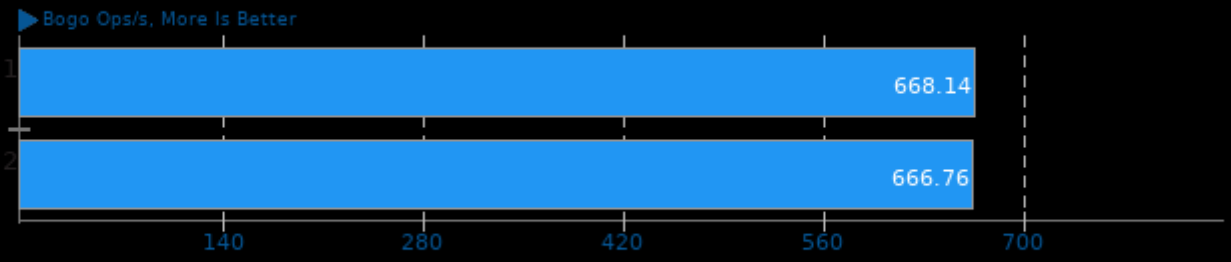
Scaling Factor: 100 - Clients: 500 - Mode: Read Write - Average Latency



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

Stress-NG 0.13.02

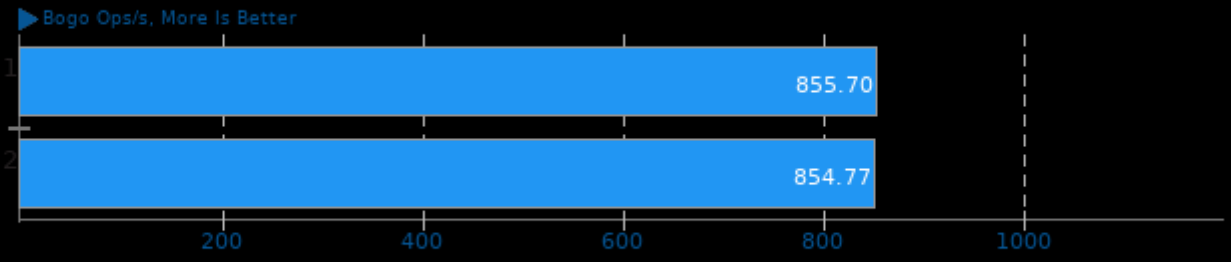
Test: MMAP



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

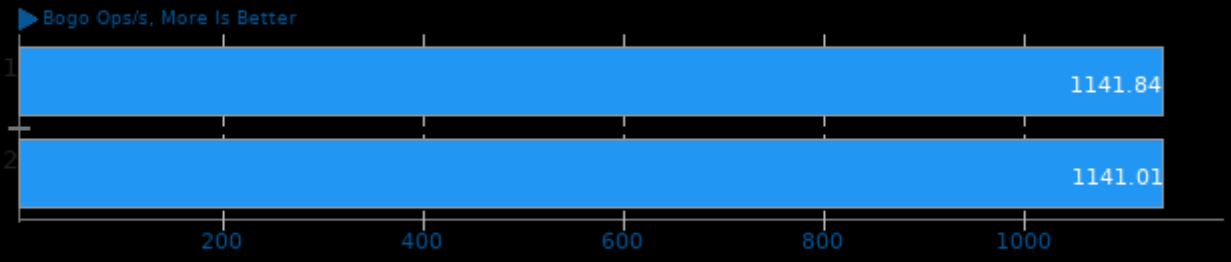
Test: NUMA



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

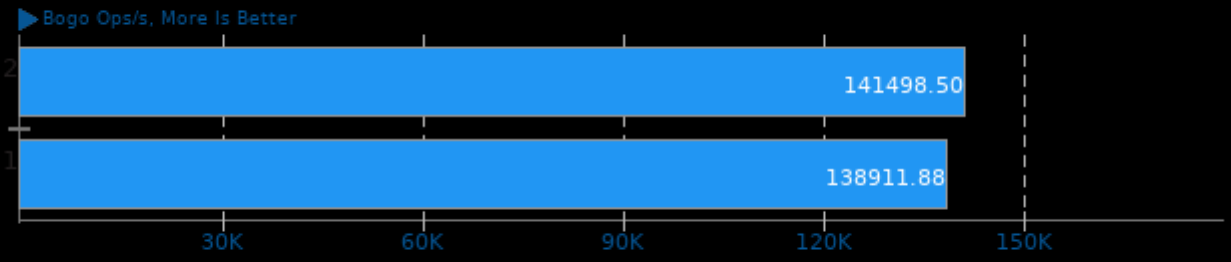
Test: MEMFD



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

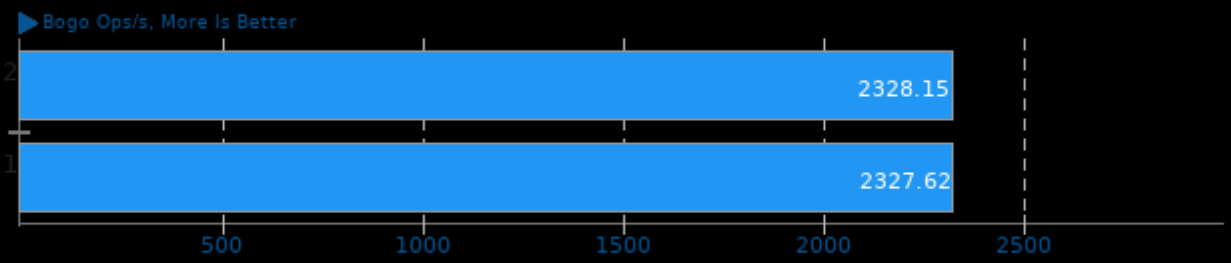
Test: Atomic



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

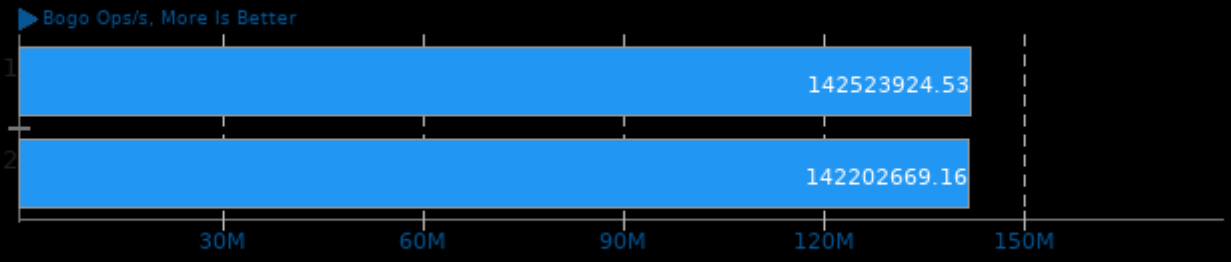
Test: Crypto



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

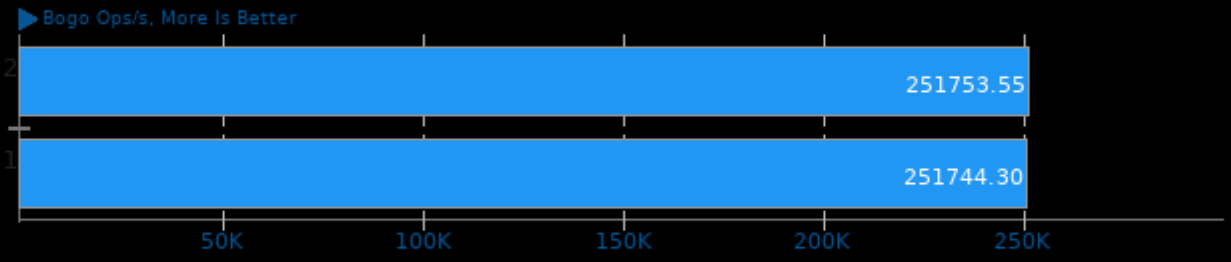
Test: Malloc



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

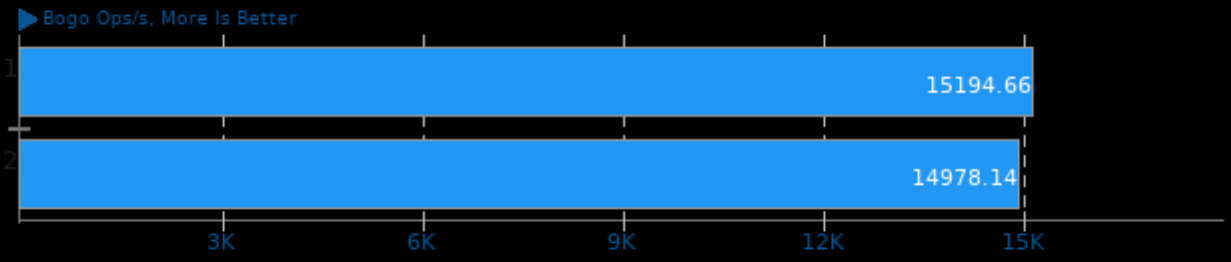
Test: RdRand



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

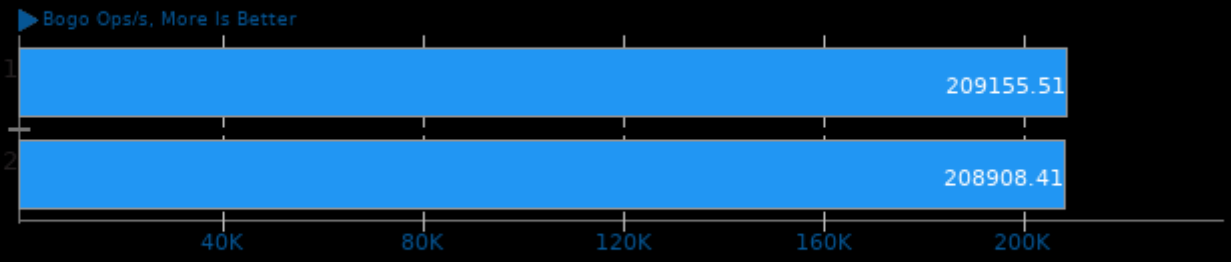
Test: Forking



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

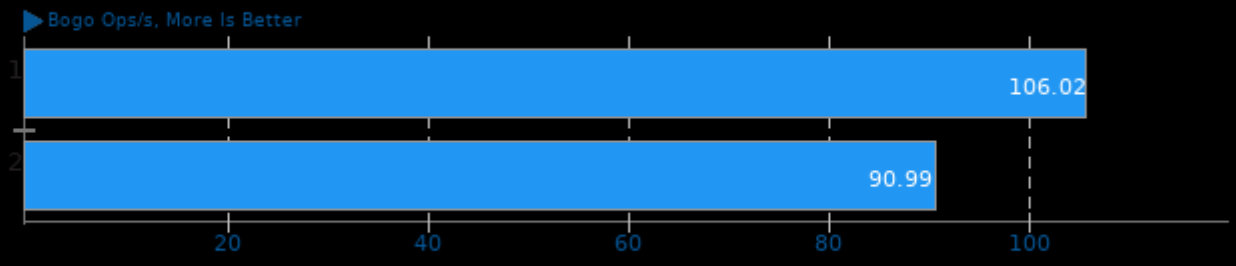
Test: SENDFILE



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

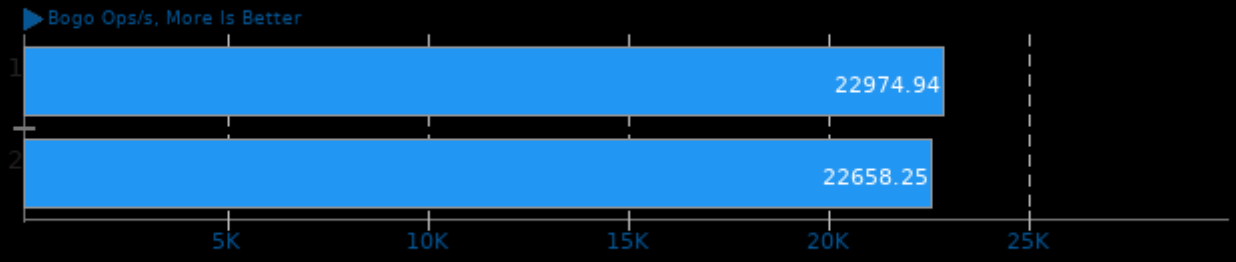
Test: CPU Cache



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

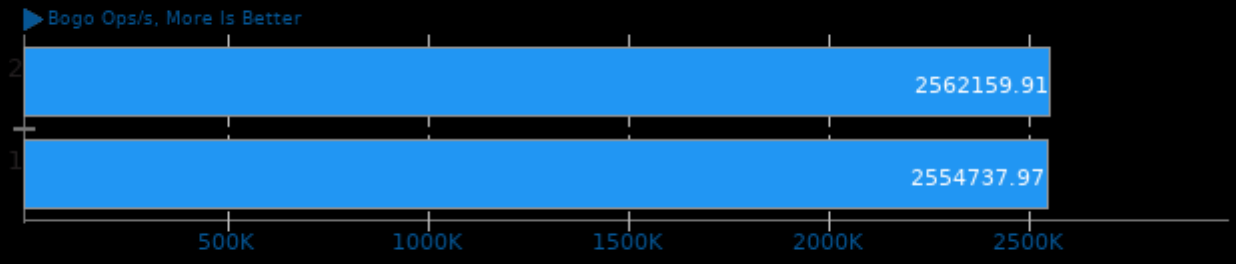
Test: CPU Stress



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

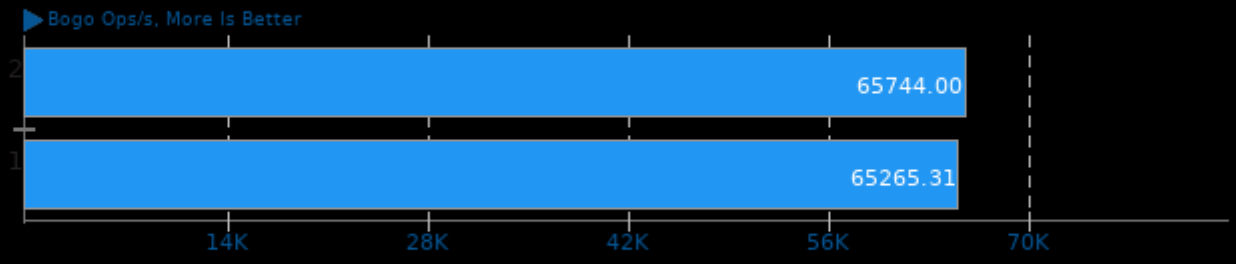
Test: Semaphores



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

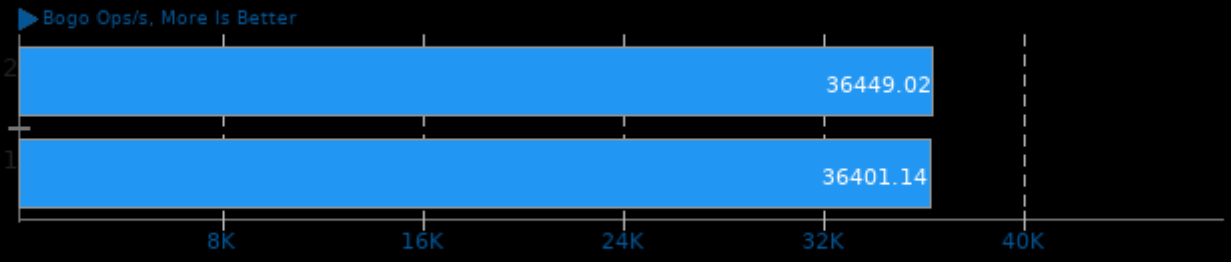
Test: Matrix Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

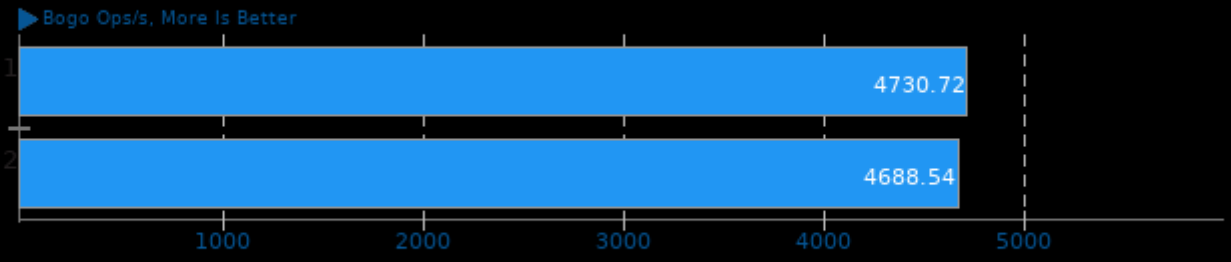
Test: Vector Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

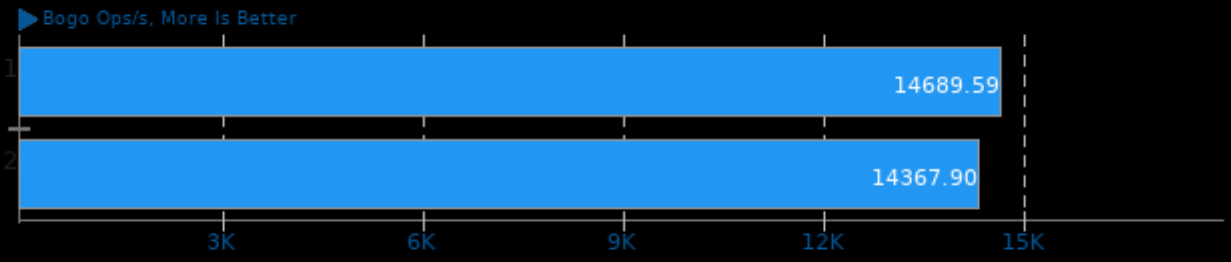
Test: Memory Copying



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

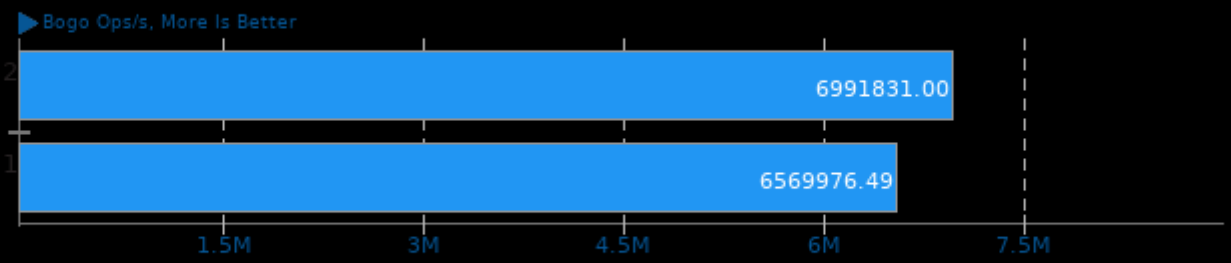
Test: Socket Activity



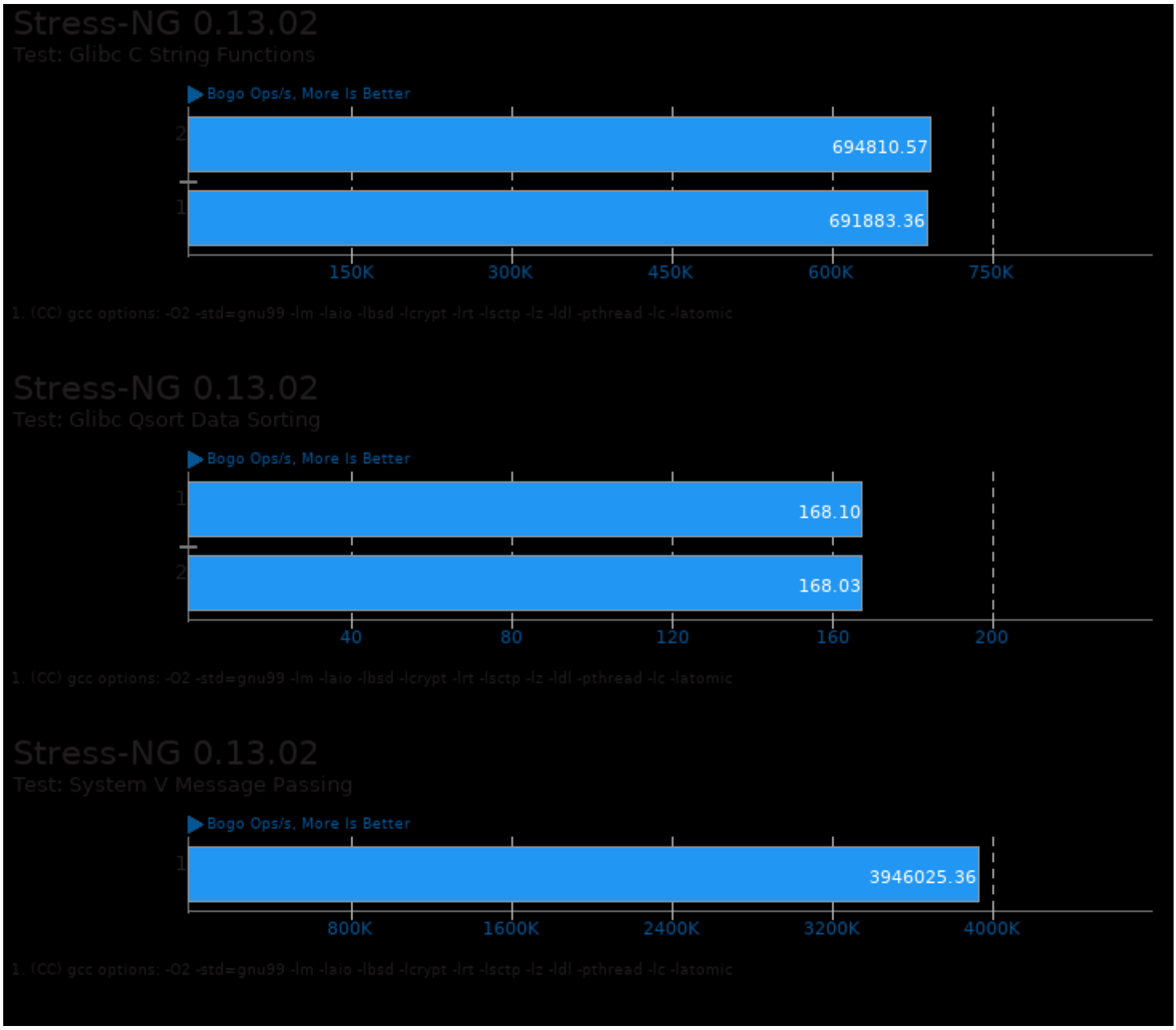
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

Stress-NG 0.13.02

Test: Context Switching



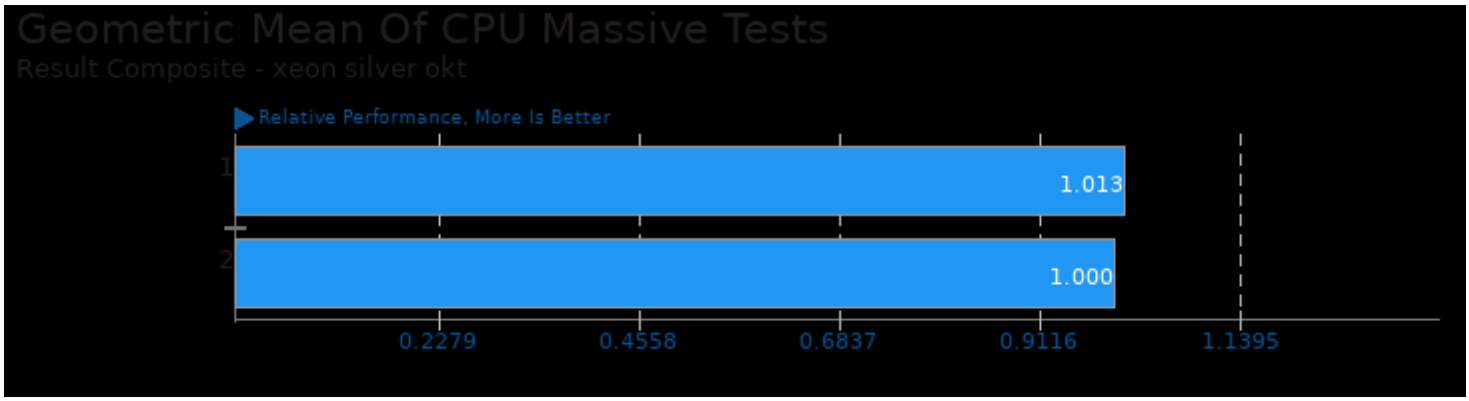
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic


Stress-NG 0.13.02
Test: Glibc C String Functions
Bogo Ops/s, More Is Better
2
694810.57
1
691883.36
150K
300K
450K
600K
750K
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic
Stress-NG 0.13.02
Test: Glibc Qsort Data Sorting
Bogo Ops/s, More Is Better
1
168.10
2
168.03
40
80
120
160
200
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic
Stress-NG 0.13.02
Test: System V Message Passing
Bogo Ops/s, More Is Better
1
3946025.36
800K
1600K
2400K
3200K
4000K
1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lbsd -lcrypt -lrt -lsctp -lz -ldl -pthread -lc -latomic

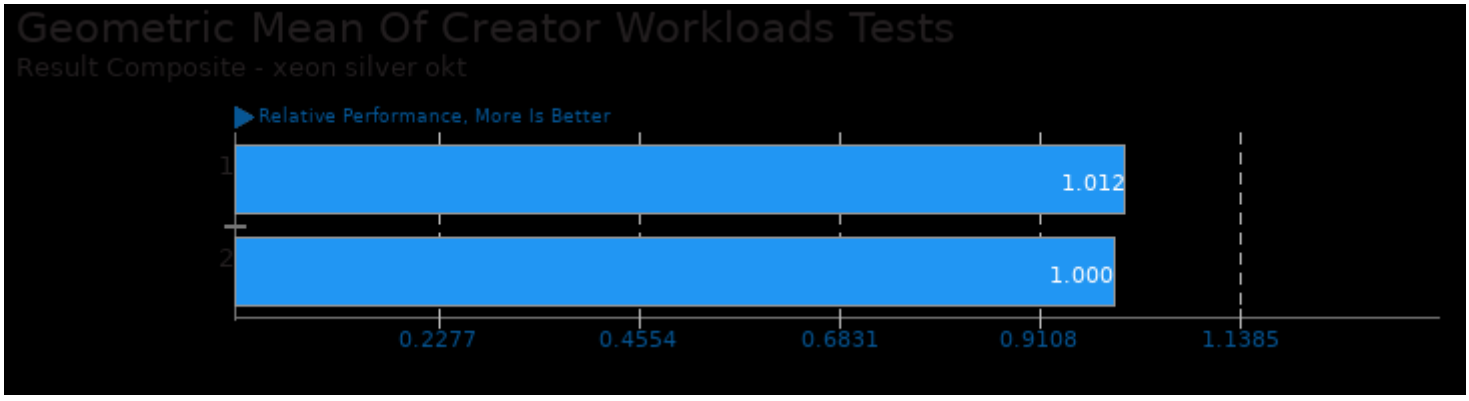
These geometric means are based upon test groupings / test suites for this result file.



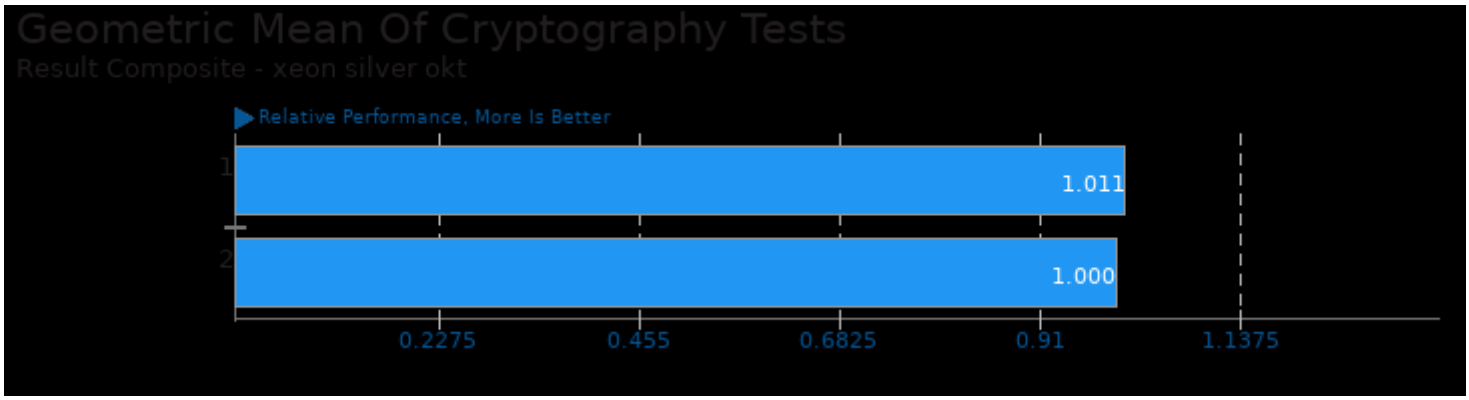
Geometric mean based upon tests: pts/build-llvm, pts/encode-flac, pts/pgbench and pts/openssl



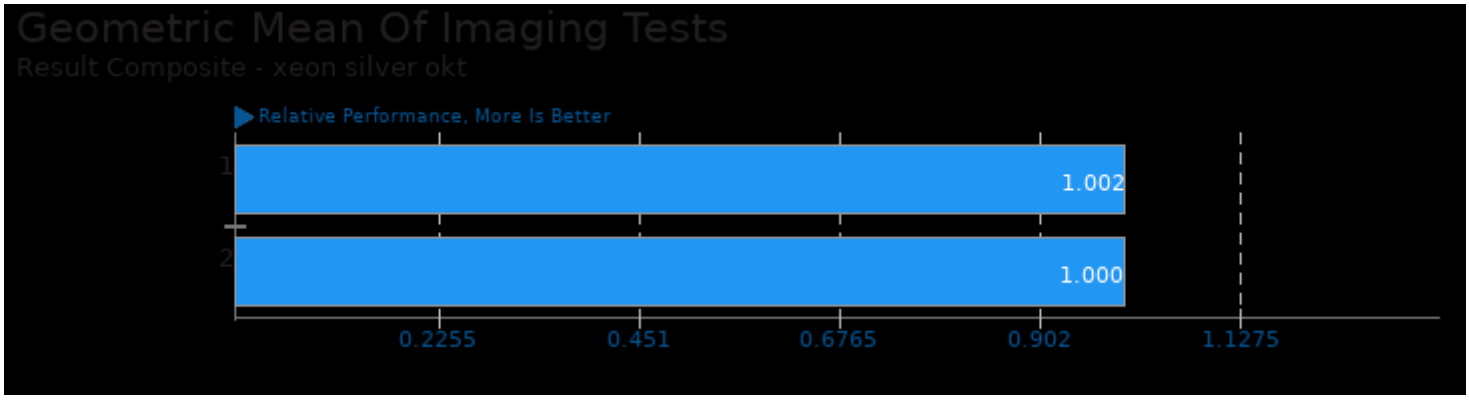
Geometric mean based upon tests: pts/build-llvm, pts/encode-flac, pts/openssl, pts/pgbench, pts/stress-ng and pts/cpuminer-opt



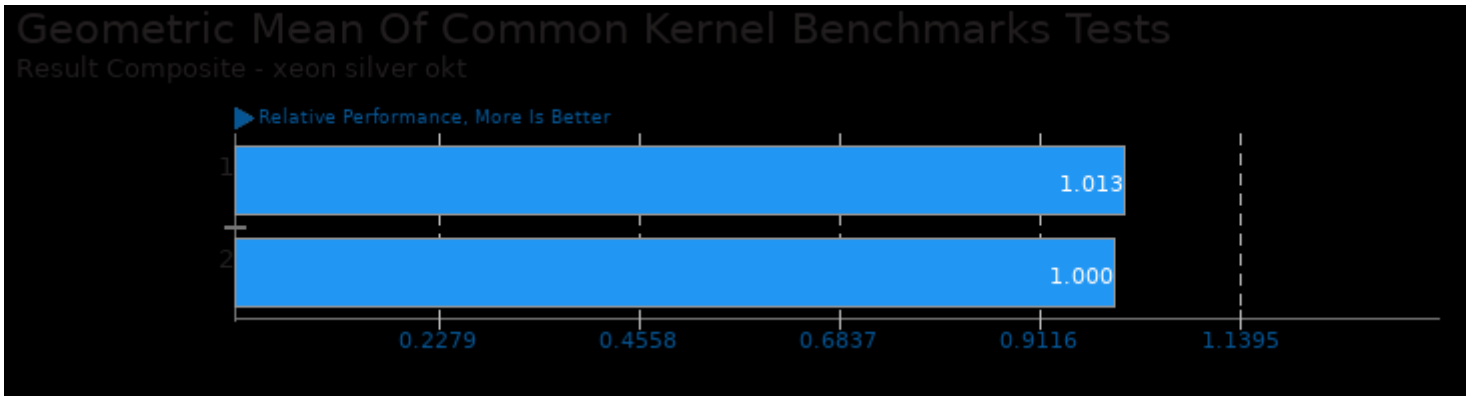
Geometric mean based upon tests: pts/encode-flac, pts/jpegxl and pts/jpegxl-decode



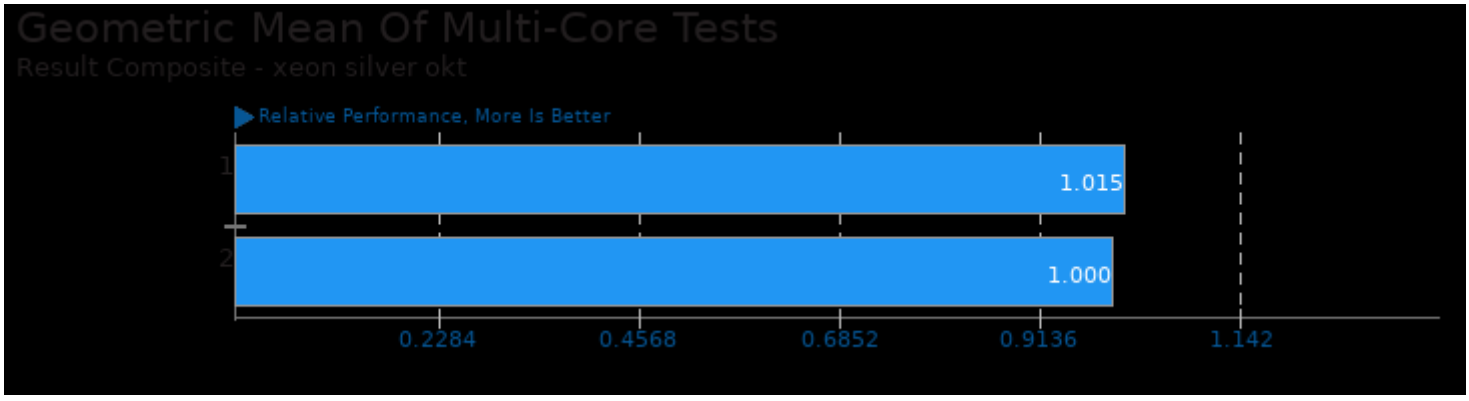
Geometric mean based upon tests: pts/openssl and pts/cpuminer-opt



Geometric mean based upon tests: pts/jpegxl and pts/jpegxl-decode



Geometric mean based upon tests: pts/pgbench, pts/openssl and pts/stress-ng

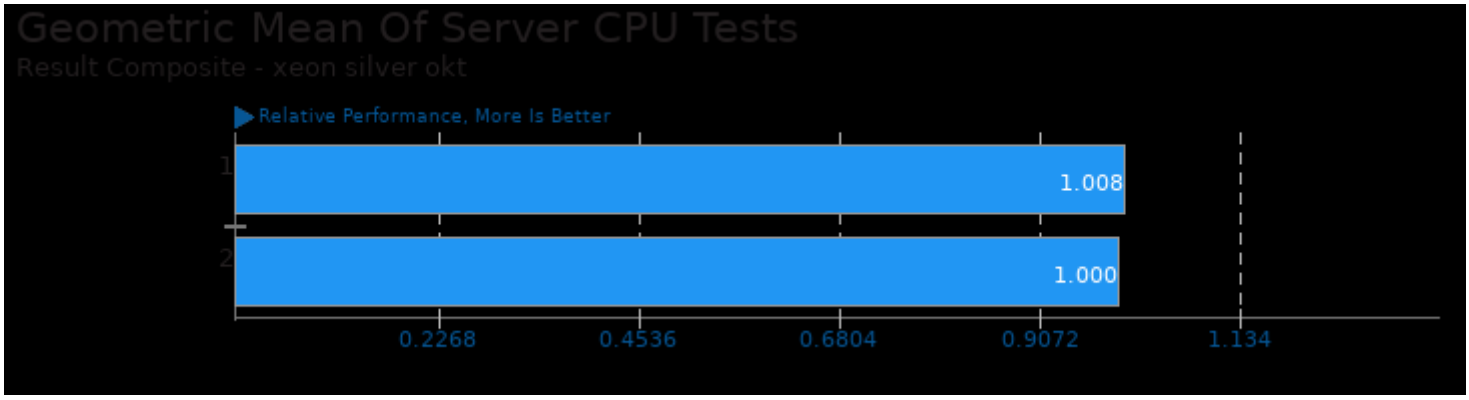


Geometric mean based upon tests: pts/cpuminer-opt, pts/build-llvm and pts/pgbench

xeon silver okt



Geometric mean based upon tests: pts/pgbench and pts/openssl



Geometric mean based upon tests: pts/build-llvm, pts/openssl, pts/stress-ng and pts/cpuminer-opt

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 01:46.