



gce-vm-comparison

KVM testing on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

GCE VM comparison had the most wins, coming in first place for 91% of the tests.

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

PostgreSQL pgbench (Scaling Factor: 1000 - Clients: 1 - Mode: Read Write - Average Latency) at 1.296x

PostgreSQL pgbench (Scaling Factor: 1000 - Clients: 1 - Mode: Read Write) at 1.295x

LevelDB (Benchmark: Overwrite) at 1.256x

LevelDB (Benchmark: Overwrite) at 1.254x

PostgreSQL pgbench (Scaling Factor: 1 - Clients: 50 - Mode: Read Write) at 1.243x

PostgreSQL pgbench (Scaling Factor: 1 - Clients: 50 - Mode: Read Write - Average Latency) at 1.243x

LevelDB (Benchmark: Random Fill) at 1.235x

LevelDB (Benchmark: Random Fill) at 1.234x

PostgreSQL pgbench (Scaling Factor: 1 - Clients: 100 - Mode: Read Write - Average Latency) at 1.233x

PostgreSQL pgbench (Scaling Factor: 1 - Clients: 100 - Mode: Read Write) at 1.233x.

Test Systems:

GCE VM comparison

PersistentDisk

Processor: Intel Xeon (8 Cores / 16 Threads), Motherboard: Google Compute Engine c2-standard-16, Chipset: Intel 440FX 82441FX PMC, Memory: 64GB, Disk: 161GB PersistentDisk, Network: Red Hat Virtio device

OS: Ubuntu 20.04, Kernel: 5.4.0-1040-gcp (x86_64), Compiler: GCC 9.3.0, File-System: ext4, System Layer: KVM

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,obj-c++,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
 Disk Notes: NONE / relatime,rw / Block Size: 4096
 Processor Notes: CPU Microcode: 0x1
 Java Notes: OpenJDK Runtime Environment (build 11.0.10+9-Ubuntu-0ubuntu1.20.04)
 Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Mitigation of Clear buffers; SMT Host state unknown + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swappgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Mitigation of Clear buffers; SMT Host state unknown

n2-standard-16

Processor: Intel Xeon (8 Cores / 16 Threads), Motherboard: Google Compute Engine n2-standard-16, Chipset: Intel 440FX 82441FX PMC, Memory: 64GB, Disk: 161GB PersistentDisk, Network: Red Hat Virtio device

OS: Ubuntu 20.04, Kernel: 5.4.0-1040-gcp (x86_64), Compiler: GCC 9.3.0, File-System: ext4, System Layer: KVM

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,obj-c++,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
 Disk Notes: NONE / relatime,rw / Block Size: 4096
 Processor Notes: CPU Microcode: 0x1
 Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Mitigation of Clear buffers; SMT Host state unknown + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swappgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Mitigation of Clear buffers; SMT Host state unknown

	GCE VM comparison	PersistentDisk	n2-standard-16
PostgreSQL pgbench - 1000 - 1 - Read Write	0.856		1.109
- Average Latency (ms)			
Normalized	100%		77.19%
Standard Deviation	0.6%		2.1%
PostgreSQL pgbench - 1000 - 1 - Read Write	1168		902
(TPS)			
Normalized	100%		77.23%
Standard Deviation	0.6%		2.1%
LevelDB - Overwrite (us/Op)	112.041		140.673
Normalized	100%		79.65%
Standard Deviation	0.1%		0.9%

LevelDB - Overwrite (MB/s)	15.8	12.6
Normalized	100%	79.75%
Standard Deviation	0%	0.8%
PostgreSQL pgbench - 1 - 50 - Read Write (TPS)	1514	1218
Normalized	100%	80.45%
Standard Deviation	1.8%	0.7%
PostgreSQL pgbench - 1 - 50 - Read Write - Average Latency (ms)	33.040	41.059
Normalized	100%	80.47%
Standard Deviation	1.8%	0.7%
LevelDB - Rand Fill (us/Op)	111.921	138.206
Normalized	100%	80.98%
Standard Deviation	0.2%	0.6%
LevelDB - Rand Fill (MB/s)	15.8	12.8
Normalized	100%	81.01%
Standard Deviation	0%	0.8%
PostgreSQL pgbench - 1 - 100 - Read Write - Average Latency (ms)	69.899	86.219
Normalized	100%	81.07%
Standard Deviation	1.1%	2.4%
PostgreSQL pgbench - 1 - 100 - Read Write (TPS)	1431	1161
Normalized	100%	81.13%
Standard Deviation	1.1%	2.4%
LevelDB - Fill Sync (us/Op)	2385	2919
Normalized	100%	81.71%
Standard Deviation	1.4%	0.3%
MariaDB - 1 (Queries/sec)	2982	2451
Normalized	100%	82.19%
Standard Deviation	0.5%	0.2%
MariaDB - 16 (Queries/sec)	1675	1381
Normalized	100%	82.45%
Standard Deviation	0.6%	0.6%
PostgreSQL pgbench - 1 - 1 - Read Write - Average Latency (ms)	0.816	0.986
Normalized	100%	82.76%
Standard Deviation	0.7%	0.1%
PostgreSQL pgbench - 1 - 1 - Read Write	1225	1014
Normalized	100%	82.78%
Standard Deviation	0.8%	0.1%
LevelDB - Rand Delete (us/Op)	110.879	133.942
Normalized	100%	82.78%
Standard Deviation	0.3%	0.4%
LevelDB - Seq Fill (MB/s)	15.8	13.2
Normalized	100%	83.54%
Standard Deviation	0%	0.4%
LevelDB - Seq Fill (us/Op)	111.946	133.937
Normalized	100%	83.58%
Standard Deviation	0.1%	0.4%
MariaDB - 4 (Queries/sec)	1934	1617
Normalized	100%	83.61%
Standard Deviation	5.5%	1%
MariaDB - 8 (Queries/sec)	1814	1528

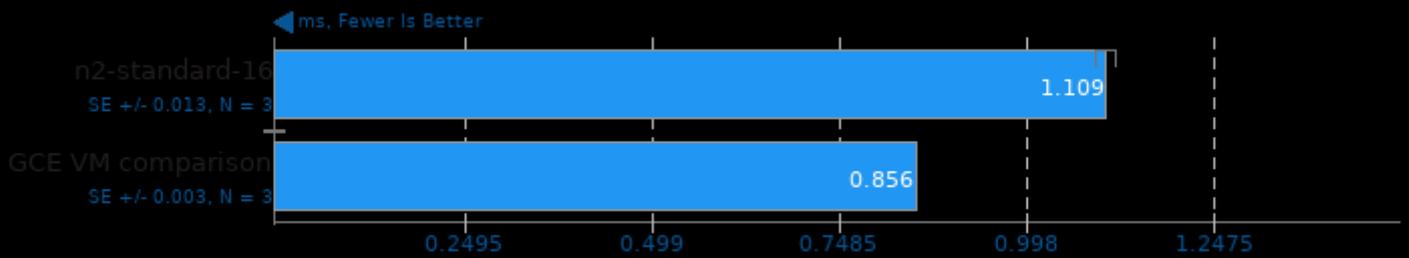
	Normalized	100%	84.23%
	Standard Deviation	0.8%	0.2%
PostgreSQL pgbench - 1 - 250 - Read Write - Average Latency (ms)		203.469	240.845
	Normalized	100%	84.48%
	Standard Deviation	1.1%	3%
PostgreSQL pgbench - 1 - 250 - Read Write (TPS)		1229	1039
	Normalized	100%	84.54%
	Standard Deviation	1.1%	3%
SQLite - 1 (sec)		16.724	19.770
	Normalized	100%	84.59%
	Standard Deviation	0.9%	2.5%
LevelDB - Fill Sync (MB/s)		0.7	0.6
	Normalized	100%	85.71%
	Standard Deviation	3.9%	0%
MariaDB - 32 (Queries/sec)		1347	1163
	Normalized	100%	86.34%
	Standard Deviation	0.4%	0.1%
LevelDB - Hot Read (us/Op)		15.083	13.281
	Normalized	88.05%	100%
	Standard Deviation	2.8%	1.2%
LevelDB - Rand Read (us/Op)		15.450	13.696
	Normalized	88.65%	100%
	Standard Deviation	1.5%	2.3%
PostgreSQL pgbench - 1 - 250 - Read Only - Average Latency (ms)		1.160	1.307
	Normalized	100%	88.75%
	Standard Deviation	0.2%	1.1%
PostgreSQL pgbench - 1 - 250 - Read Only (TPS)		215591	191351
	Normalized	100%	88.76%
	Standard Deviation	0.3%	1.1%
PostgreSQL pgbench - 100 - 50 - Read Only - Average Latency (ms)		0.288	0.322
	Normalized	100%	89.44%
	Standard Deviation	0.4%	0.2%
PostgreSQL pgbench - 100 - 50 - Read Only (TPS)		173439	155332
	Normalized	100%	89.56%
	Standard Deviation	0.4%	0.2%
PostgreSQL pgbench - 100 - 1 - Read Only - Average Latency (ms)		0.053	0.059
	Normalized	100%	89.83%
	Standard Deviation	1.1%	1.7%
PostgreSQL pgbench - 100 - 100 - Read Only - Average Latency (ms)		0.548	0.610
	Normalized	100%	89.84%
	Standard Deviation	0.2%	0.3%
PostgreSQL pgbench - 100 - 100 - Read Only (TPS)		182659	164164
	Normalized	100%	89.87%
	Standard Deviation	0.2%	0.3%

PostgreSQL pgbench - 100 - 1 - Read Only (TPS)	18754	16925
Normalized	100%	90.25%
Standard Deviation	0.6%	1.6%
PostgreSQL pgbench - 1000 - 50 - Read Only - Average Latency (ms)	0.302	0.334
Normalized	100%	90.42%
Standard Deviation	1%	0.5%
PostgreSQL pgbench - 1000 - 50 - Read Only (TPS)	165375	149726
Normalized	100%	90.54%
Standard Deviation	1.1%	0.5%
PostgreSQL pgbench - 1 - 50 - Read Only - Average Latency (ms)	0.233	0.257
Normalized	100%	90.66%
Standard Deviation	0.2%	0.2%
PostgreSQL pgbench - 1 - 50 - Read Only (TPS)	214289	194477
Normalized	100%	90.75%
Standard Deviation	0.1%	0.2%
PostgreSQL pgbench - 1 - 100 - Read Only (TPS)	226079	205787
Normalized	100%	91.02%
Standard Deviation	0.9%	0.4%
PostgreSQL pgbench - 1 - 100 - Read Only - Average Latency (ms)	0.443	0.486
Normalized	100%	91.15%
Standard Deviation	0.9%	0.4%
PostgreSQL pgbench - 100 - 250 - Read Only - Average Latency (ms)	1.505	1.642
Normalized	100%	91.66%
Standard Deviation	0.5%	0.5%
PostgreSQL pgbench - 100 - 250 - Read Only (TPS)	166151	152295
Normalized	100%	91.66%
Standard Deviation	0.5%	0.5%
PostgreSQL pgbench - 1 - 1 - Read Only - Average Latency (ms)	0.045	0.049
Normalized	100%	91.84%
Standard Deviation	1.3%	1.2%
Apache CouchDB - 100 - 1000 - 24 (sec)	97.714	106.059
Normalized	100%	92.13%
Standard Deviation	0.4%	0.3%
PostgreSQL pgbench - 1 - 1 - Read Only (TPS)	22019	20338
Normalized	100%	92.37%
Standard Deviation	0.8%	0.8%
MariaDB - 64 (Queries/sec)	972	898
Normalized	100%	92.39%
Standard Deviation	2%	0.8%
PostgreSQL pgbench - 1000 - 1 - Read Only - Average Latency (ms)	0.058	0.062
Normalized	100%	93.55%
Standard Deviation	1.7%	1.6%

PostgreSQL pgbench - 1000 - 1 - Read Only (TPS)	17252	16180
Normalized	100%	93.79%
Standard Deviation	2.4%	1.6%
LevelDB - Seek Rand (us/Op)	19.103	18.045
Normalized	94.46%	100%
Standard Deviation	0.9%	0.6%
MariaDB - 512 (Queries/sec)	261	247
Normalized	100%	94.64%
Standard Deviation	1.5%	1.5%
MariaDB - 256 (Queries/sec)	295	280
Normalized	100%	94.92%
Standard Deviation	2.1%	0.2%
MariaDB - 128 (Queries/sec)	352	345
Normalized	100%	98.01%
Standard Deviation	2.2%	0.9%
PostgreSQL pgbench - 100 - 50 - Read Write (TPS)	3356	3420
Normalized	98.13%	100%
Standard Deviation	2.4%	4.3%
PostgreSQL pgbench - 100 - 50 - Read Write - Average Latency (ms)	14.905	14.649
Normalized	98.28%	100%
Standard Deviation	2.4%	4.4%
PostgreSQL pgbench - 100 - 1 - Read Write - Average Latency (ms)	1.170	1.540
Normalized	100%	75.97%
Standard Deviation	17.4%	22.4%
PostgreSQL pgbench - 100 - 1 - Read Write (TPS)	878	678
Normalized	100%	77.22%
Standard Deviation	16.9%	20.7%

PostgreSQL pgbench 13.0

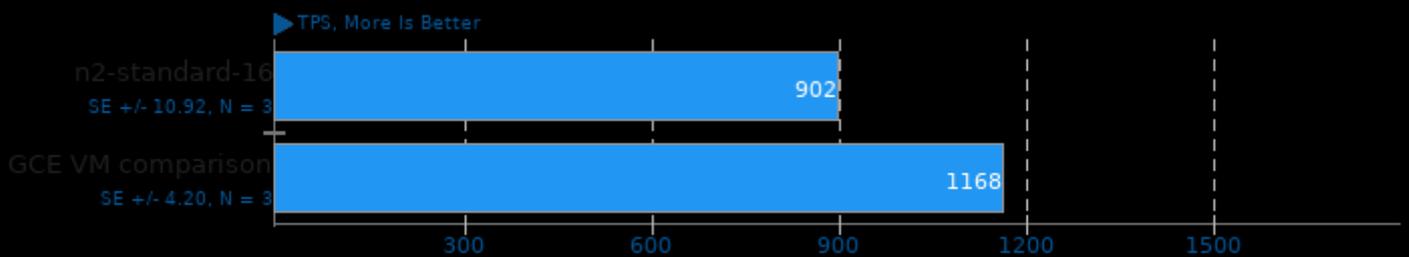
Scaling Factor: 1000 - Clients: 1 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 13.0

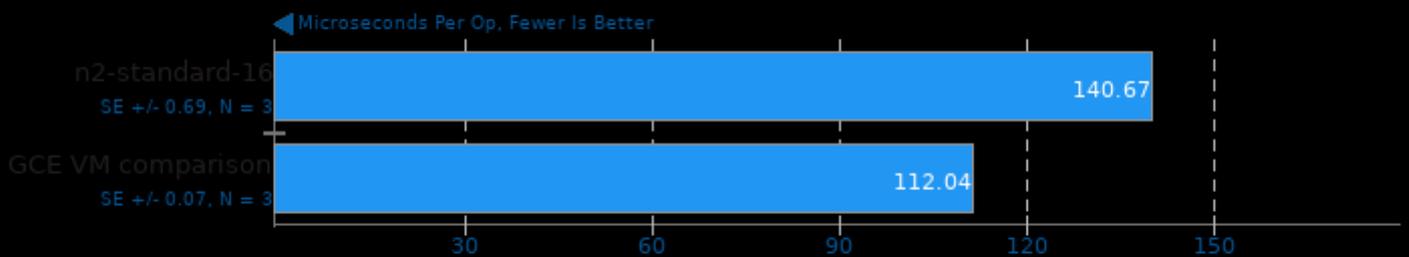
Scaling Factor: 1000 - Clients: 1 - Mode: Read Write



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

LevelDB 1.22

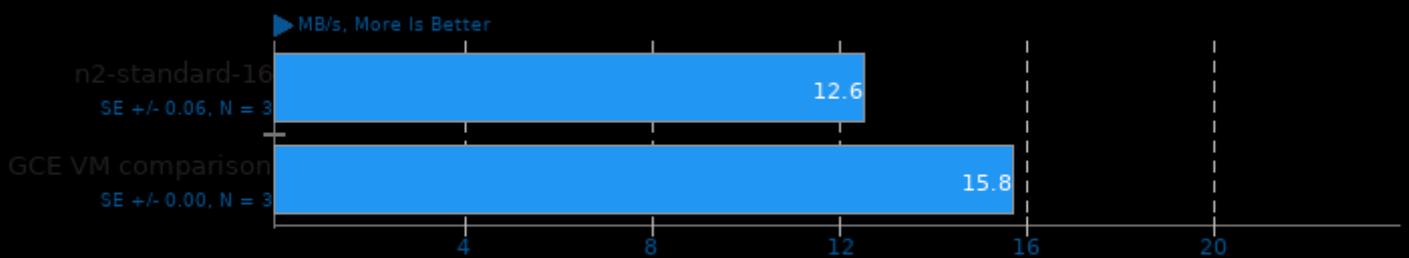
Benchmark: Overwrite



1. (CXX) g++ options: -O3 -lsnappy -lpthread

LevelDB 1.22

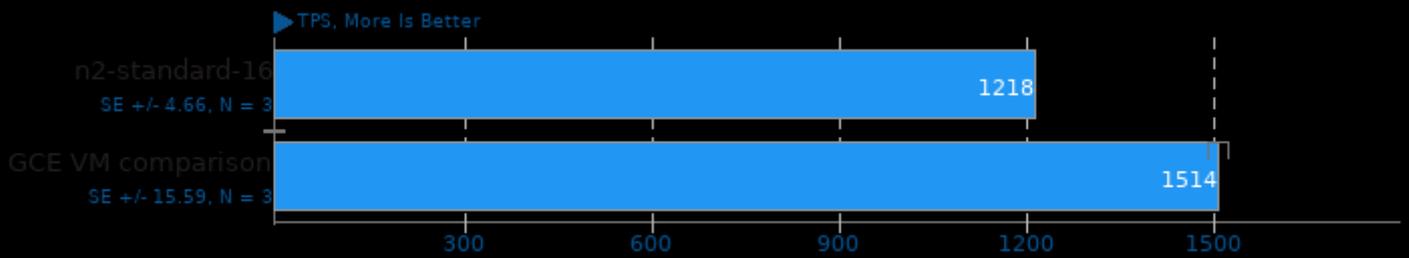
Benchmark: Overwrite



1. (CXX) g++ options: -O3 -lsnappy -lpthread

PostgreSQL pgbench 13.0

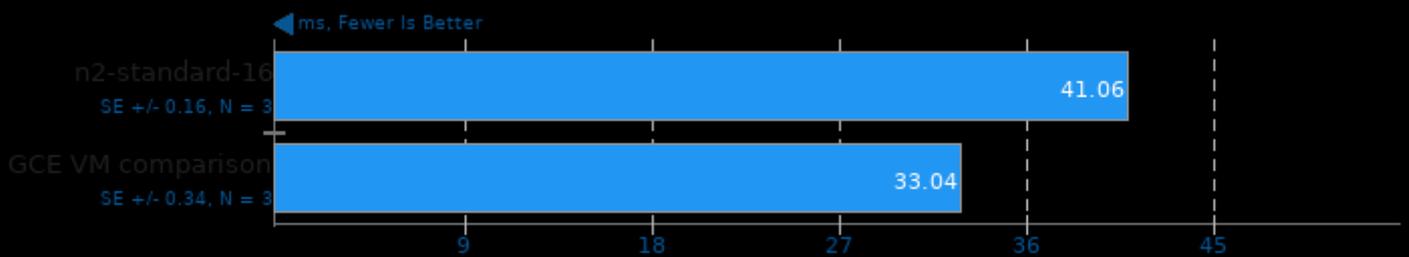
Scaling Factor: 1 - Clients: 50 - Mode: Read Write



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

PostgreSQL pgbench 13.0

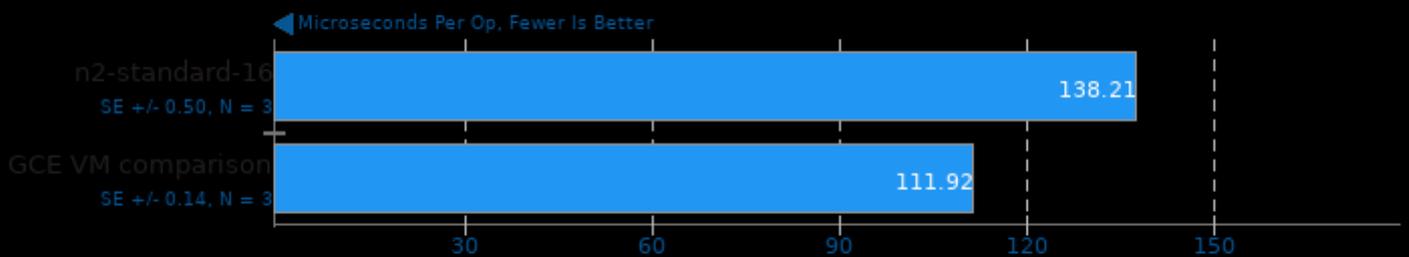
Scaling Factor: 1 - Clients: 50 - Mode: Read Write - Average Latency



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

LevelDB 1.22

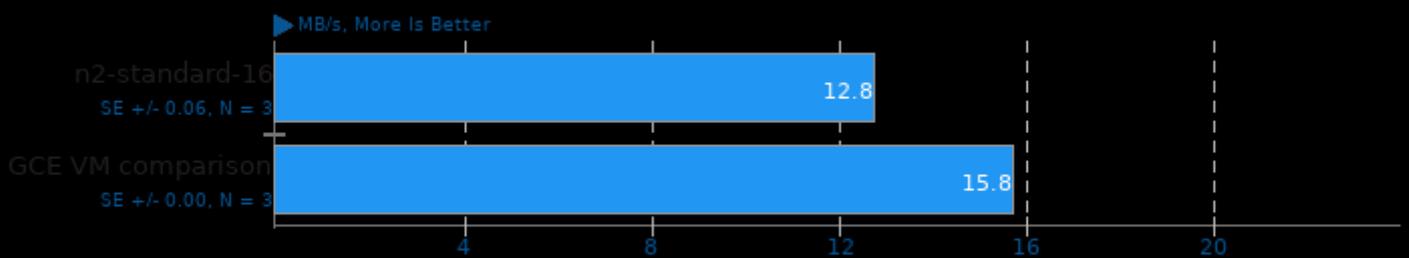
Benchmark: Random Fill



1. (CXX) g++ options: -O3 -lsnappy -lpthread

LevelDB 1.22

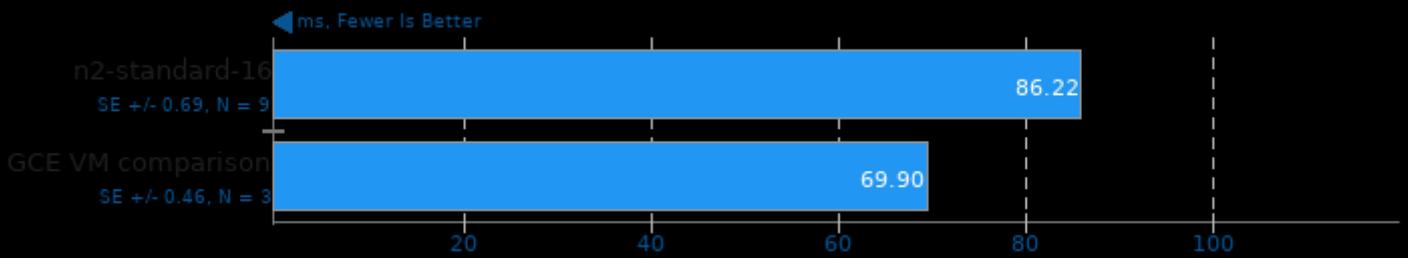
Benchmark: Random Fill



1. (CXX) g++ options: -O3 -lsnappy -lpthread

PostgreSQL pgbench 13.0

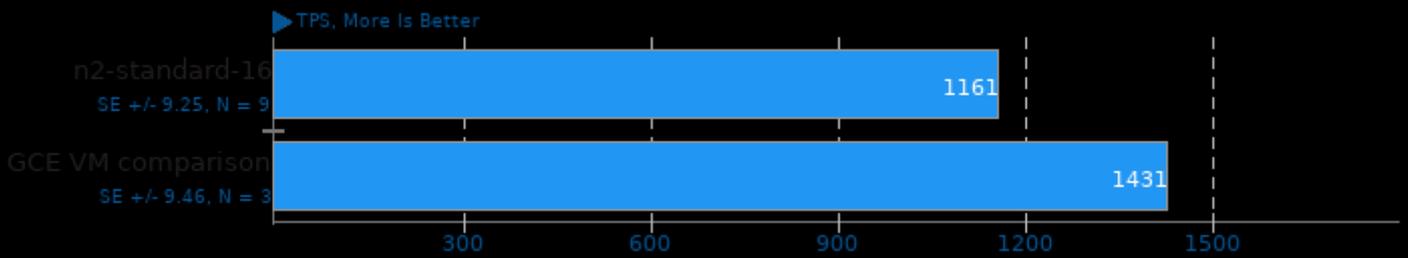
Scaling Factor: 1 - Clients: 100 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 13.0

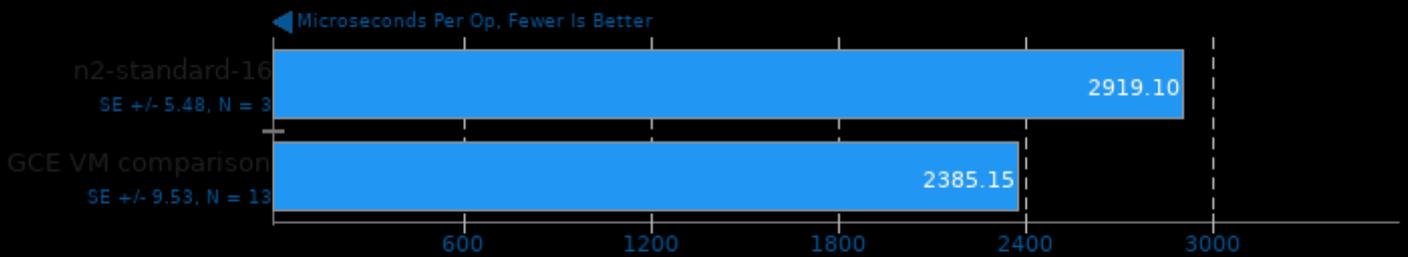
Scaling Factor: 1 - Clients: 100 - Mode: Read Write



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

LevelDB 1.22

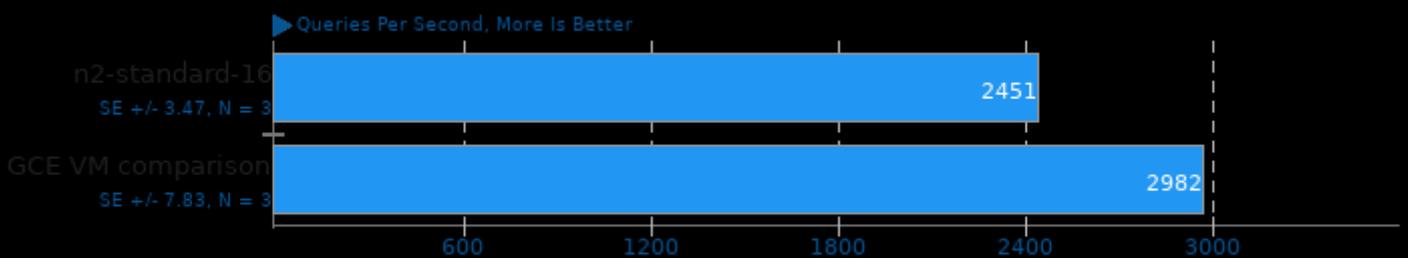
Benchmark: Fill Sync



1. (CXX) g++ options: -O3 -lsnappy -lpthread

MariaDB 10.5.2

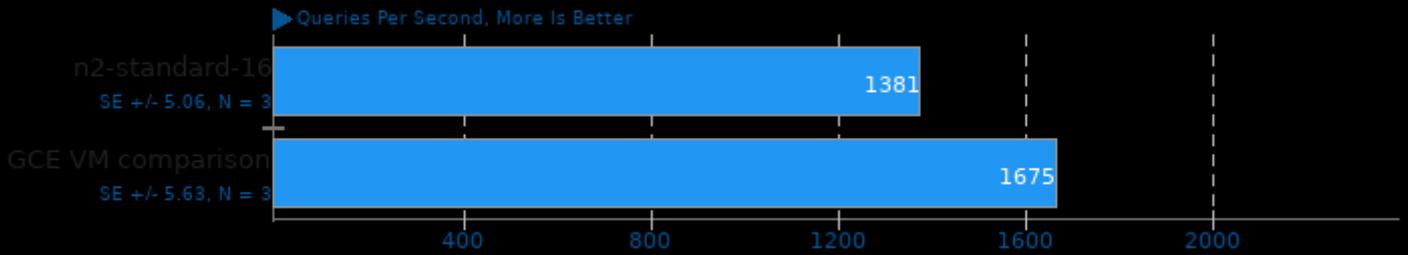
Clients: 1



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O2 -lpthread -lsnappy -lcrypt -lz -lm -lssl -lcrypto -ldl

MariaDB 10.5.2

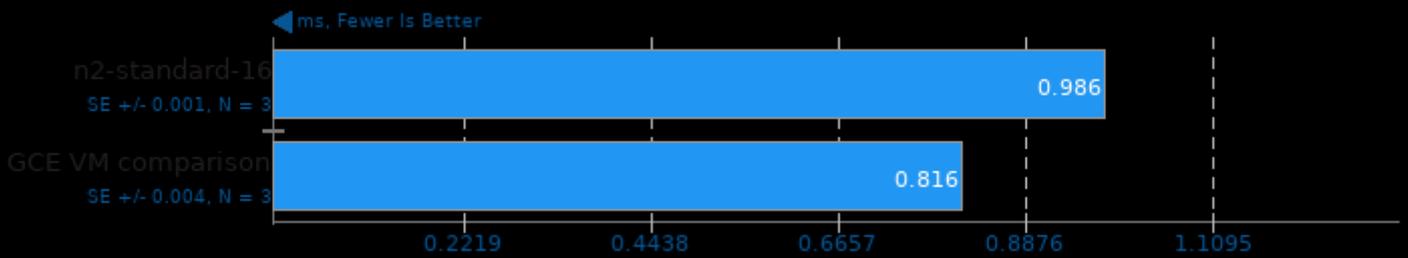
Clients: 16



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O2 -lpthread -lsnappy -lcrypt -lz -lm -lssl -lcrypto -ldl

PostgreSQL pgbench 13.0

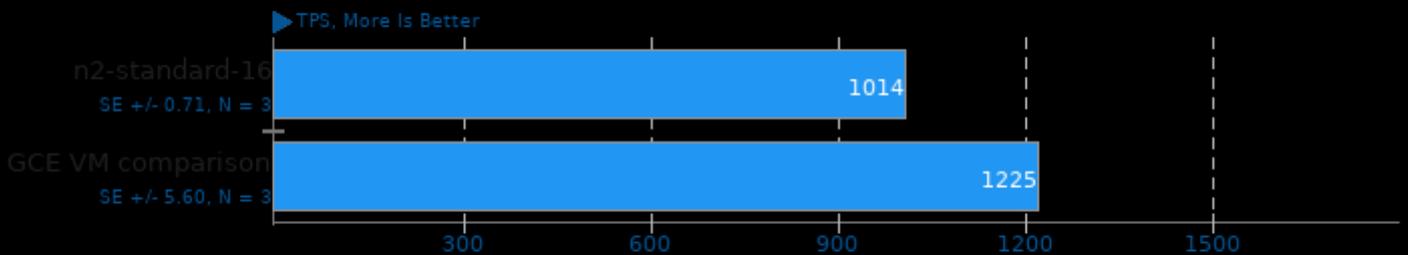
Scaling Factor: 1 - Clients: 1 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 13.0

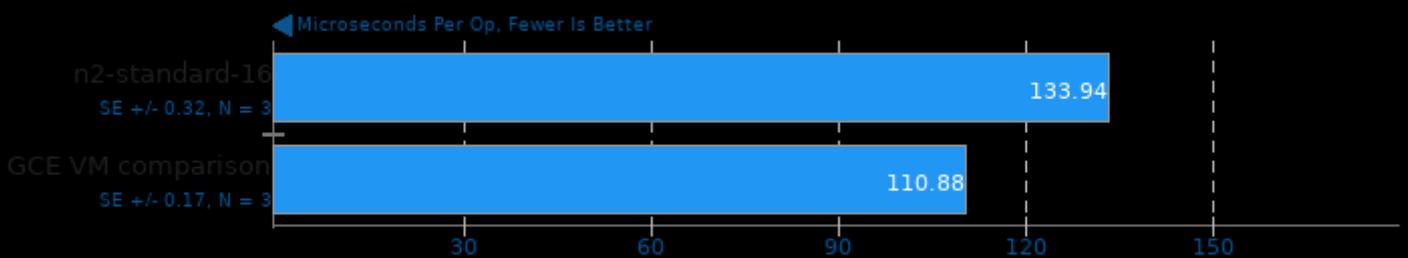
Scaling Factor: 1 - Clients: 1 - Mode: Read Write



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

LevelDB 1.22

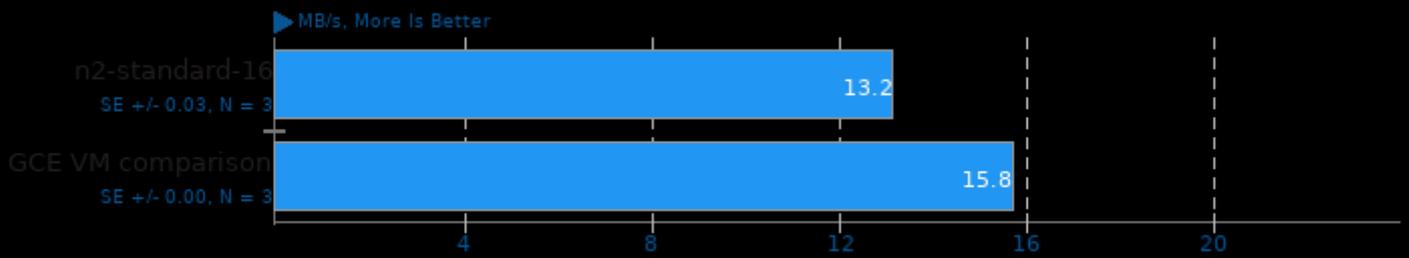
Benchmark: Random Delete



1. (CXX) g++ options: -O3 -lsnappy -lpthread

LevelDB 1.22

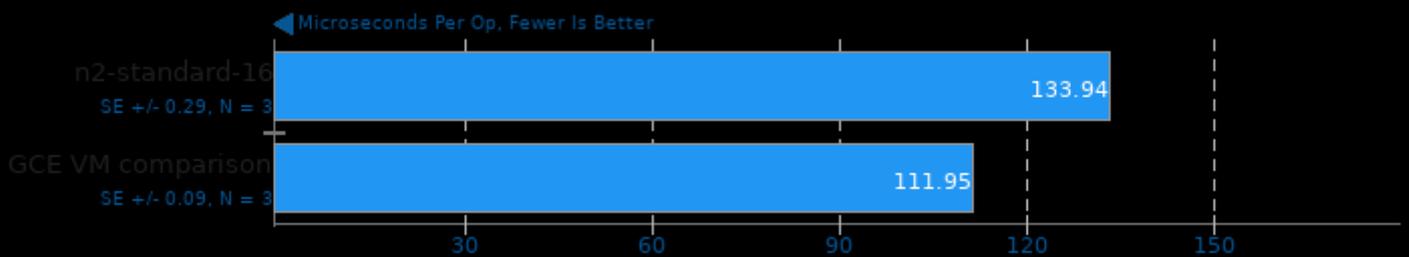
Benchmark: Sequential Fill



1. (CXX) g++ options: -O3 -lsnappy -lthread

LevelDB 1.22

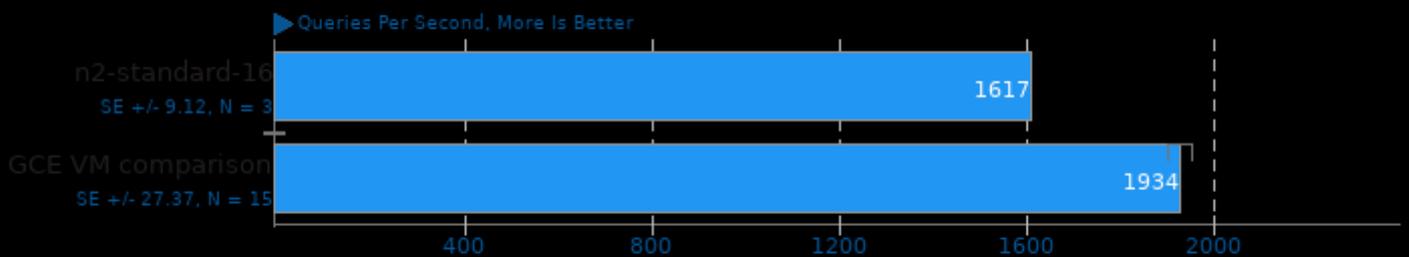
Benchmark: Sequential Fill



1. (CXX) g++ options: -O3 -lsnappy -lthread

MariaDB 10.5.2

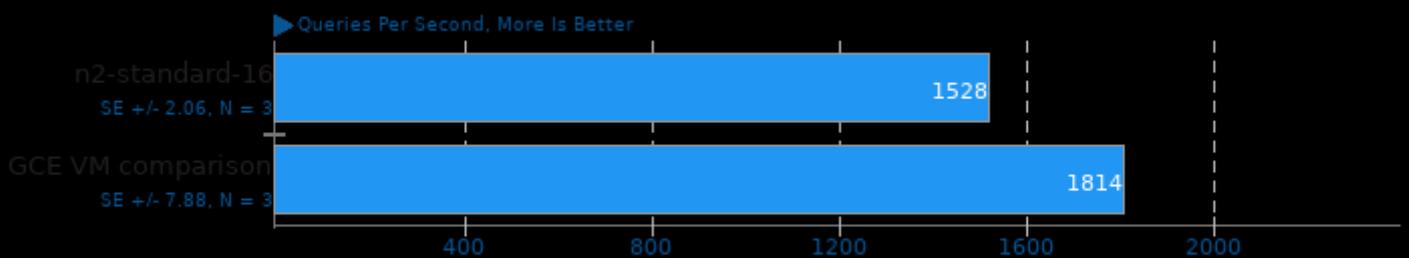
Clients: 4



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O2 -lthread -lsnappy -lcrypt -lz -lm -lssl -lcrypto -ldl

MariaDB 10.5.2

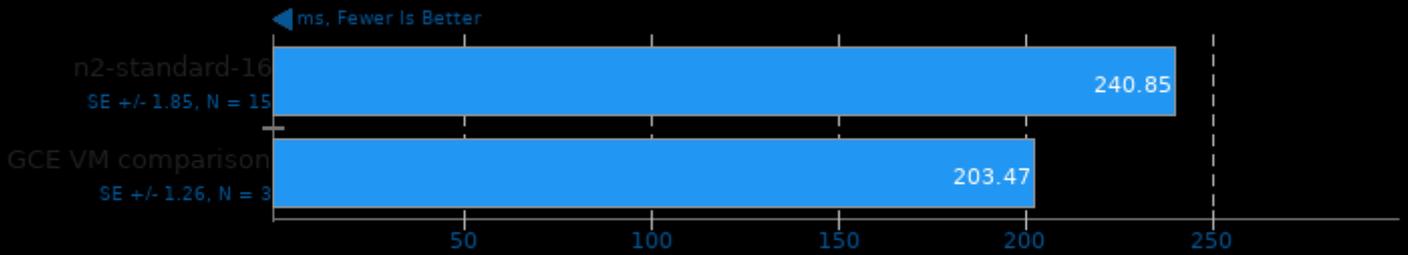
Clients: 8



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O2 -lthread -lsnappy -lcrypt -lz -lm -lssl -lcrypto -ldl

PostgreSQL pgbench 13.0

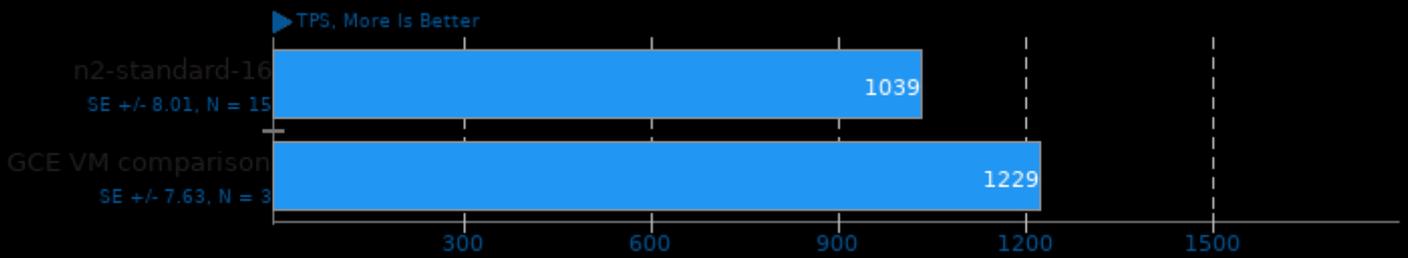
Scaling Factor: 1 - Clients: 250 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 13.0

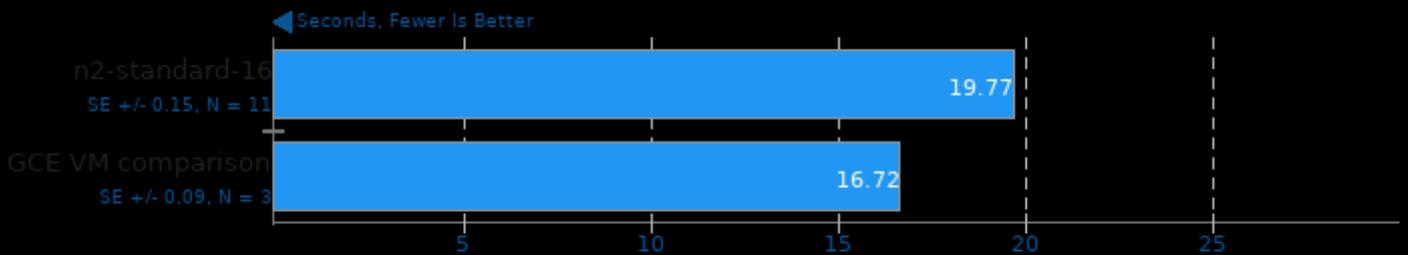
Scaling Factor: 1 - Clients: 250 - Mode: Read Write



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

SQLite 3.30.1

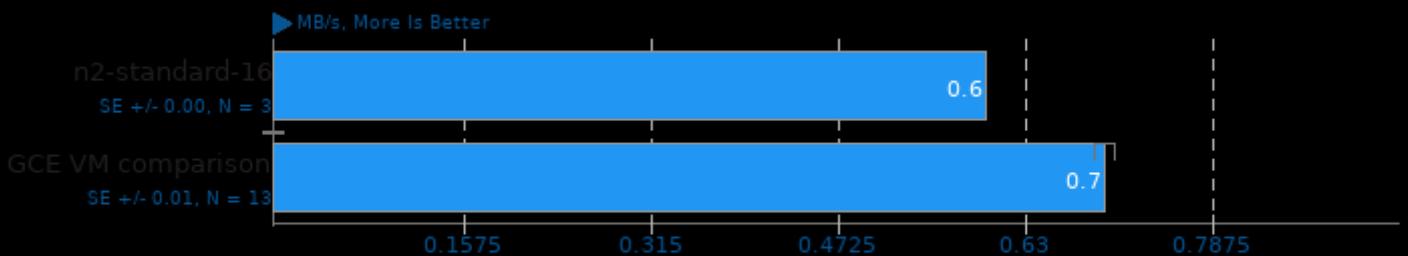
Threads / Copies: 1



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

LevelDB 1.22

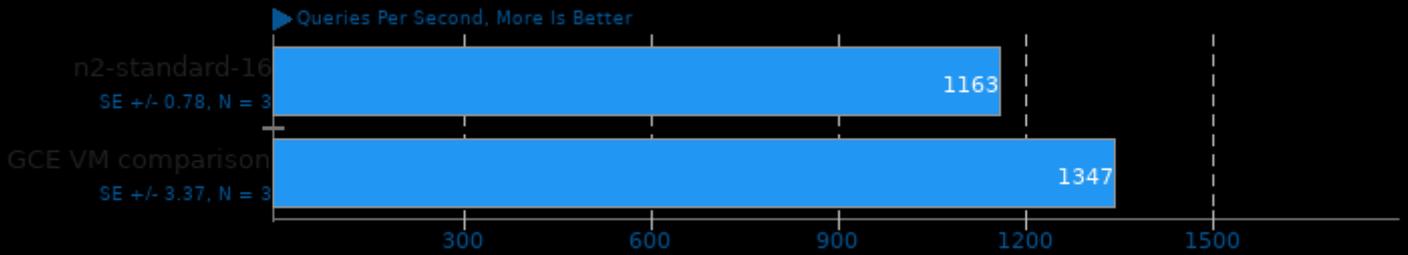
Benchmark: Fill Sync



1. (CXX) g++ options: -O3 -lsnappy -lpthread

MariaDB 10.5.2

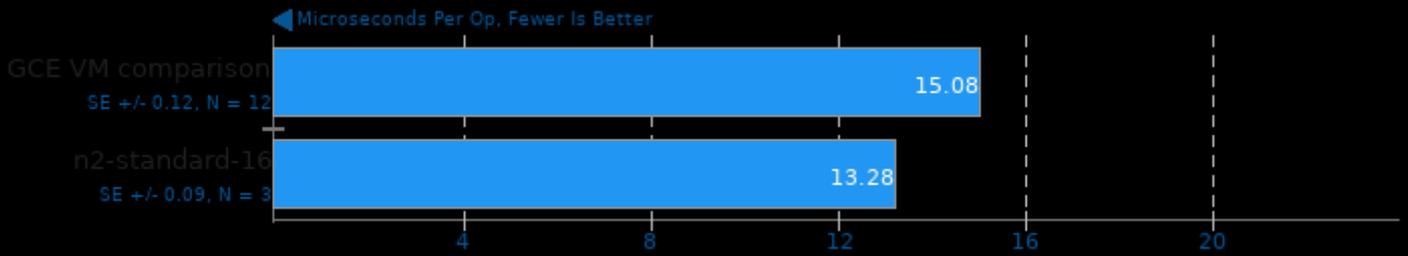
Clients: 32



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O2 -lpthread -lsnappy -lcrypt -lz -lm -lssl -lcrypto -ldl

LevelDB 1.22

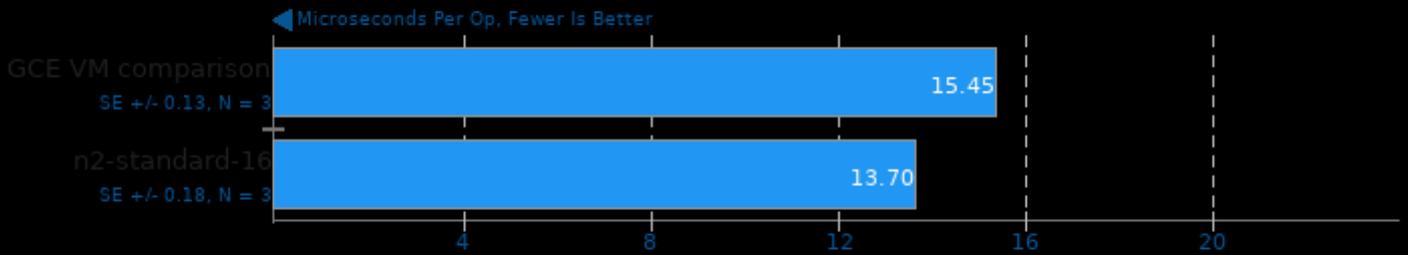
Benchmark: Hot Read



1. (CXX) g++ options: -O3 -lsnappy -lpthread

LevelDB 1.22

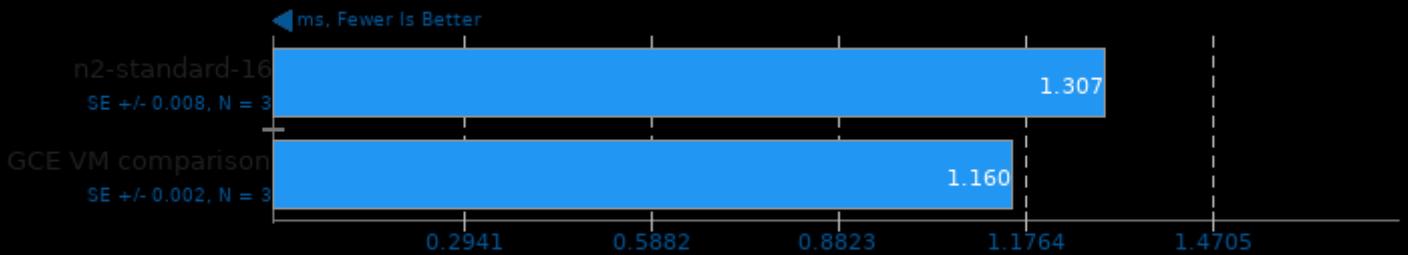
Benchmark: Random Read



1. (CXX) g++ options: -O3 -lsnappy -lpthread

PostgreSQL pgbench 13.0

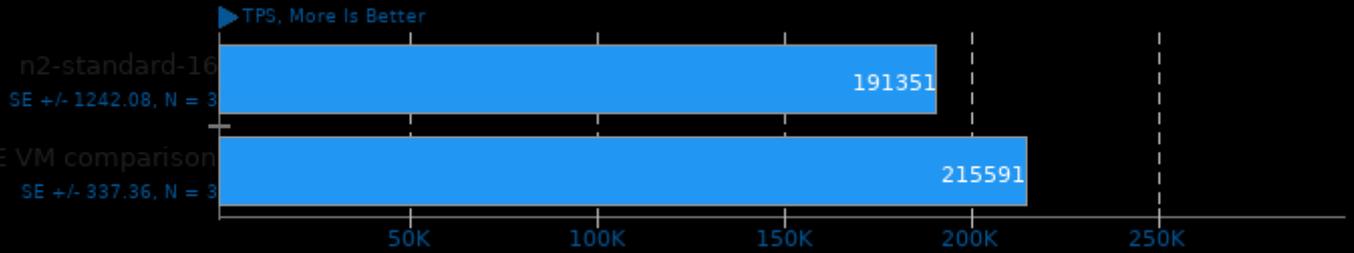
Scaling Factor: 1 - Clients: 250 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 13.0

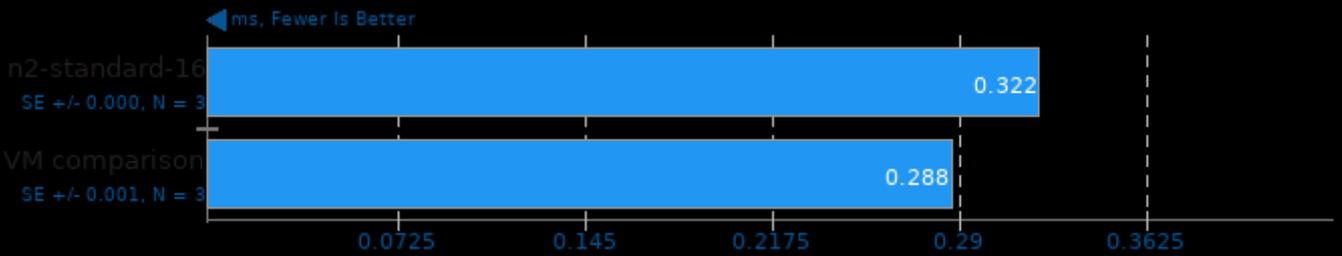
Scaling Factor: 1 - Clients: 250 - Mode: Read Only



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

PostgreSQL pgbench 13.0

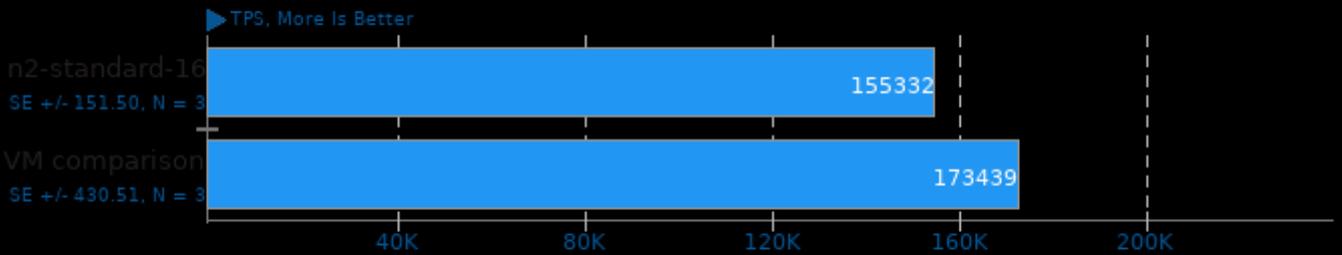
Scaling Factor: 100 - Clients: 50 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 13.0

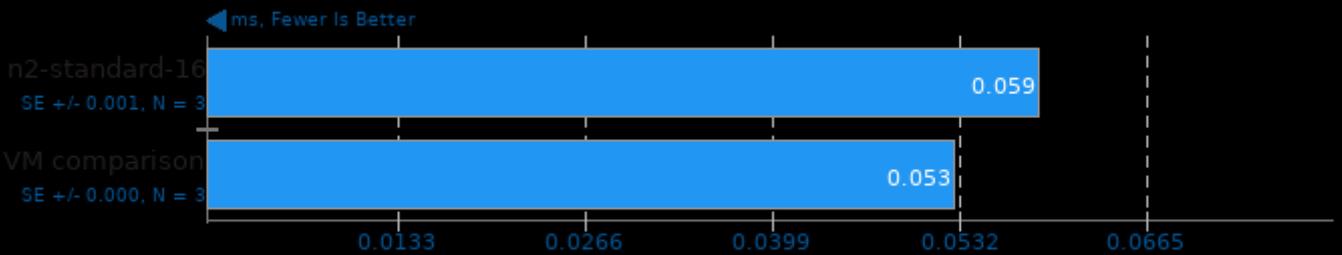
Scaling Factor: 100 - Clients: 50 - Mode: Read Only



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

PostgreSQL pgbench 13.0

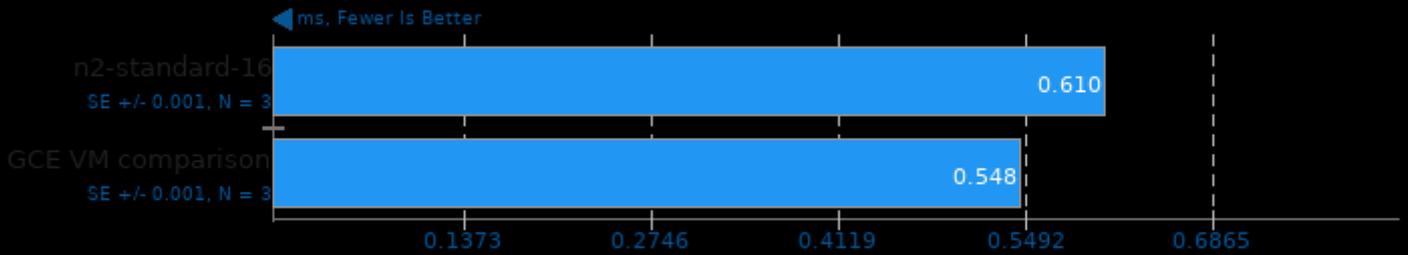
Scaling Factor: 100 - Clients: 1 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 13.0

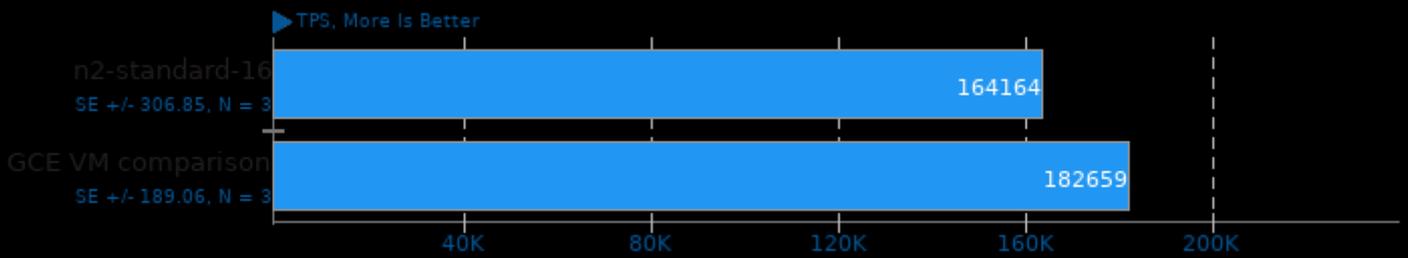
Scaling Factor: 100 - Clients: 100 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 13.0

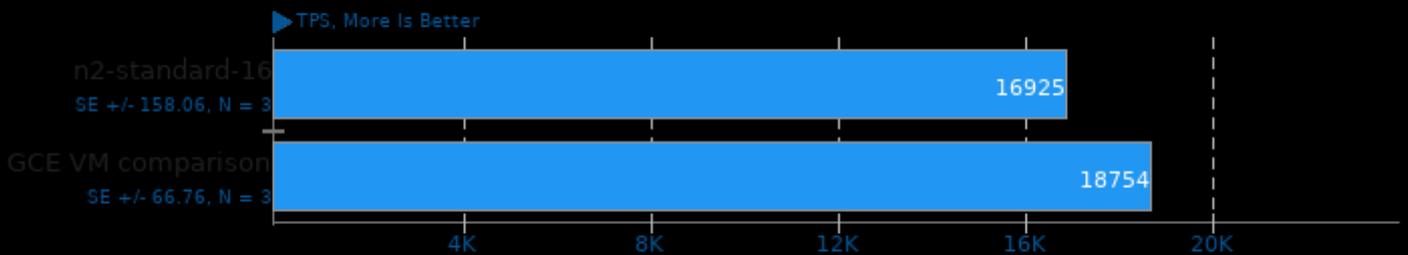
Scaling Factor: 100 - Clients: 100 - Mode: Read Only



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

PostgreSQL pgbench 13.0

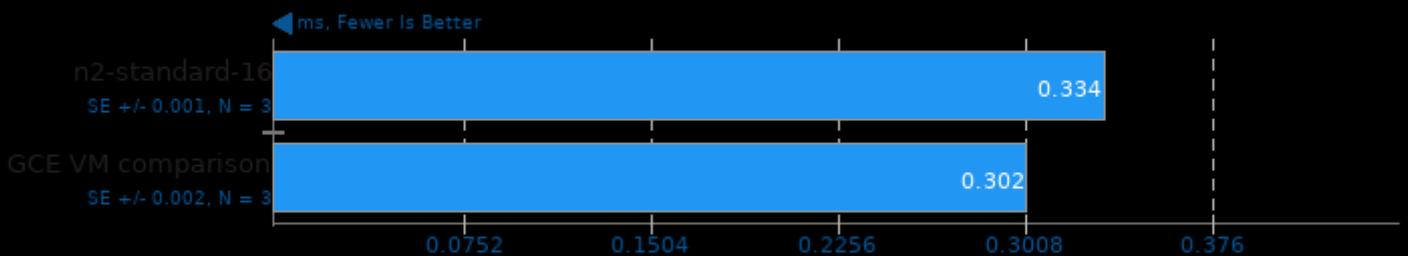
Scaling Factor: 100 - Clients: 1 - Mode: Read Only



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

PostgreSQL pgbench 13.0

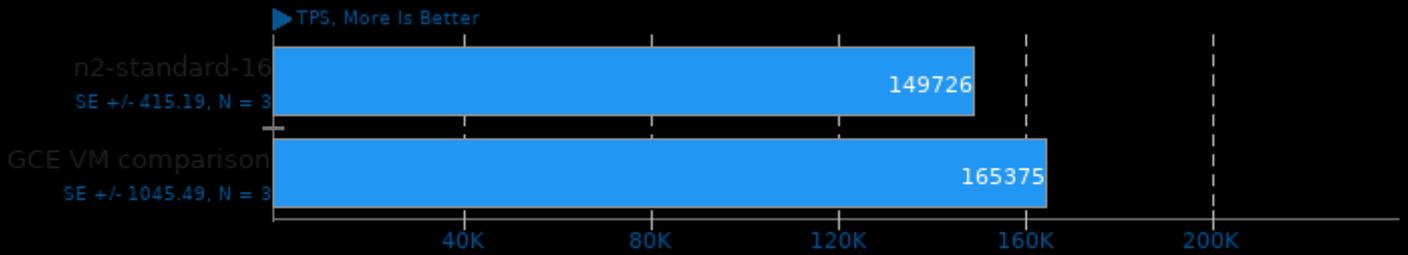
Scaling Factor: 1000 - Clients: 50 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 13.0

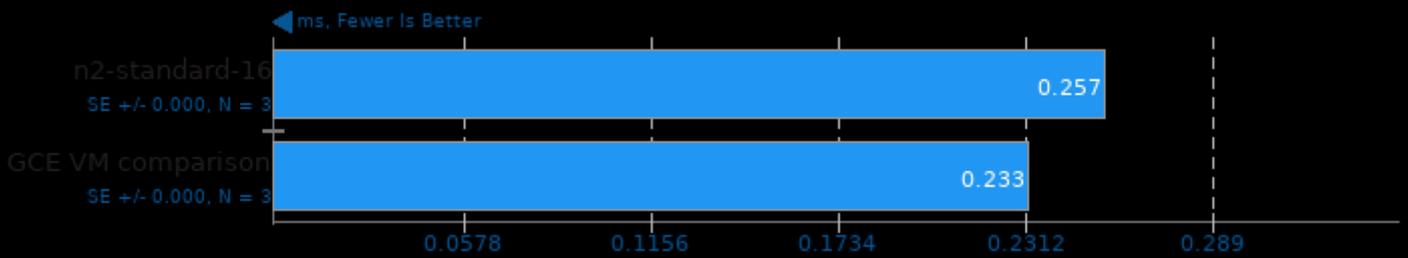
Scaling Factor: 1000 - Clients: 50 - Mode: Read Only



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

PostgreSQL pgbench 13.0

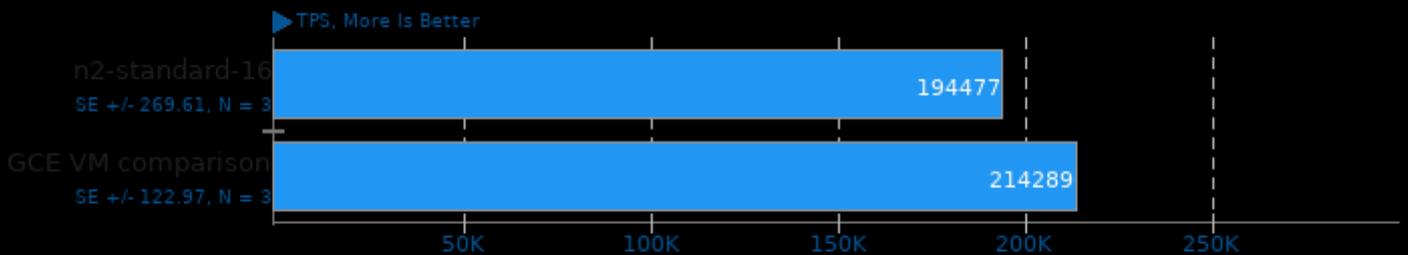
Scaling Factor: 1 - Clients: 50 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 13.0

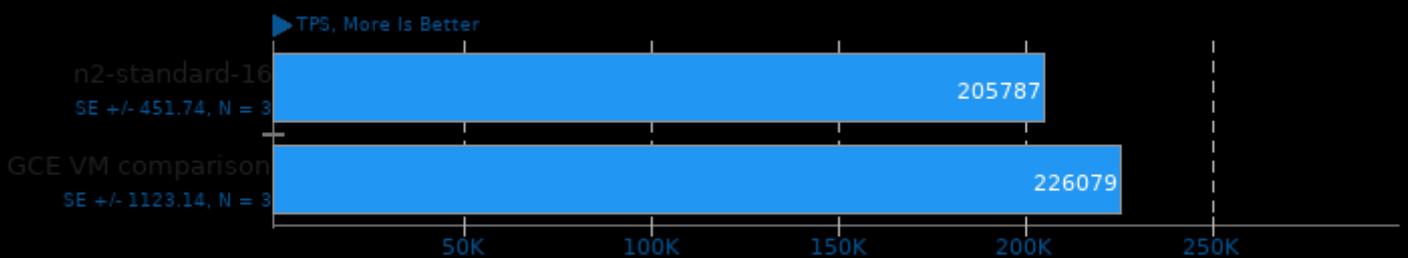
Scaling Factor: 1 - Clients: 50 - Mode: Read Only



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

PostgreSQL pgbench 13.0

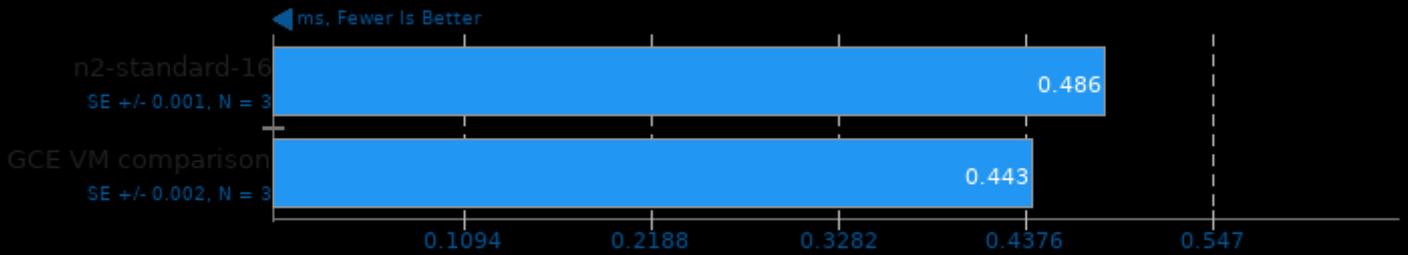
Scaling Factor: 1 - Clients: 100 - Mode: Read Only



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

PostgreSQL pgbench 13.0

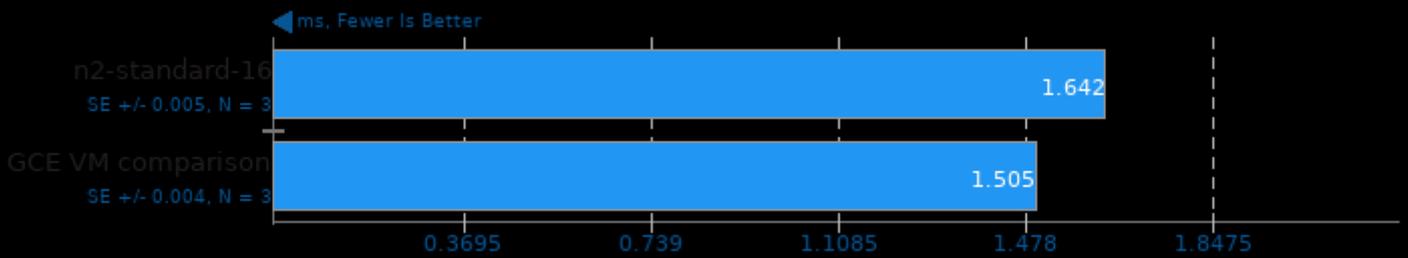
Scaling Factor: 1 - Clients: 100 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 13.0

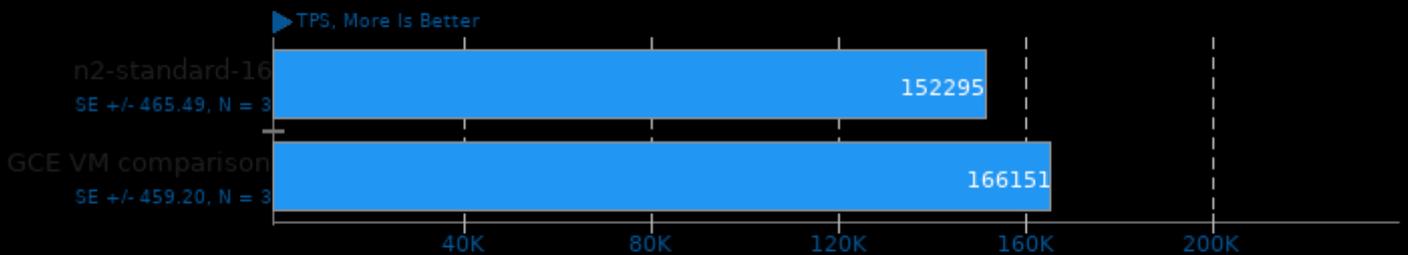
Scaling Factor: 100 - Clients: 250 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 13.0

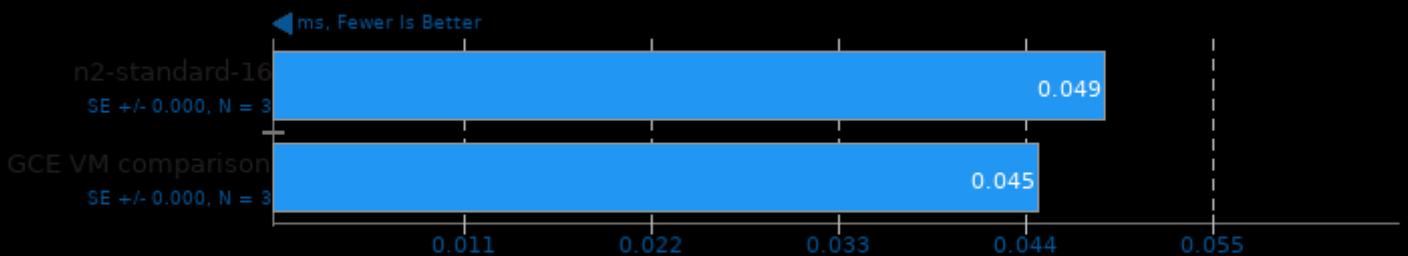
Scaling Factor: 100 - Clients: 250 - Mode: Read Only



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

PostgreSQL pgbench 13.0

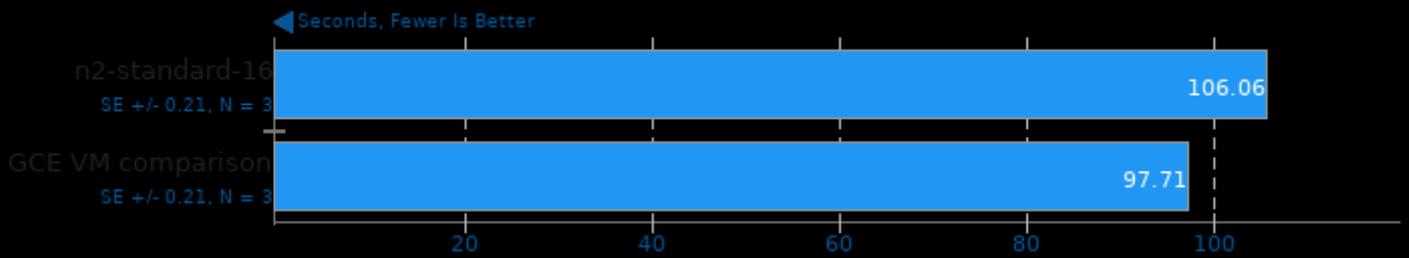
Scaling Factor: 1 - Clients: 1 - Mode: Read Only - Average Latency



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

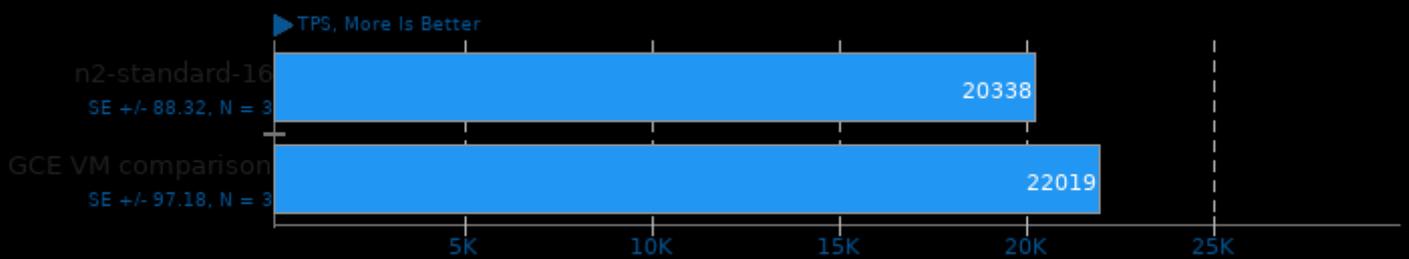
Apache CouchDB 3.1.1

Bulk Size: 100 - Inserts: 1000 - Rounds: 24



PostgreSQL pgbench 13.0

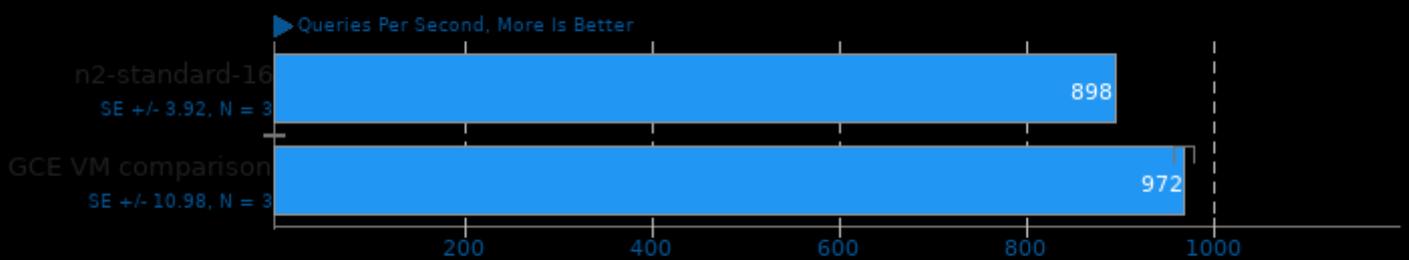
Scaling Factor: 1 - Clients: 1 - Mode: Read Only



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

MariaDB 10.5.2

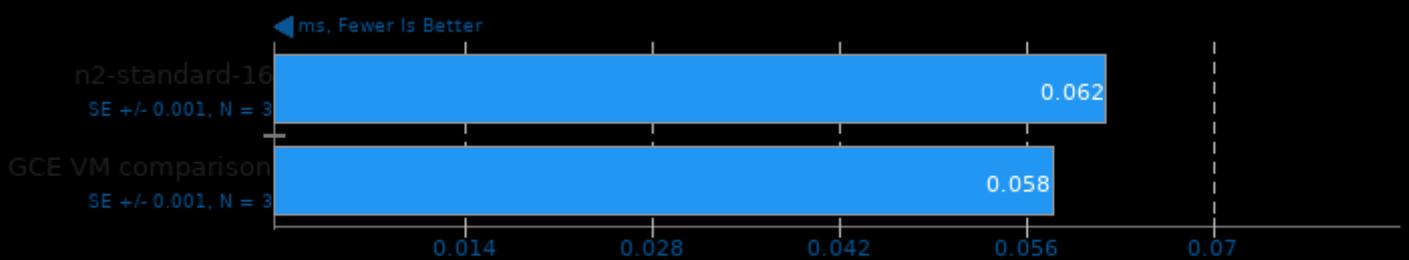
Clients: 64



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O2 -lpthread -lsnappy -lcrypt -lz -lm -lssl -lcrypto -ldl

PostgreSQL pgbench 13.0

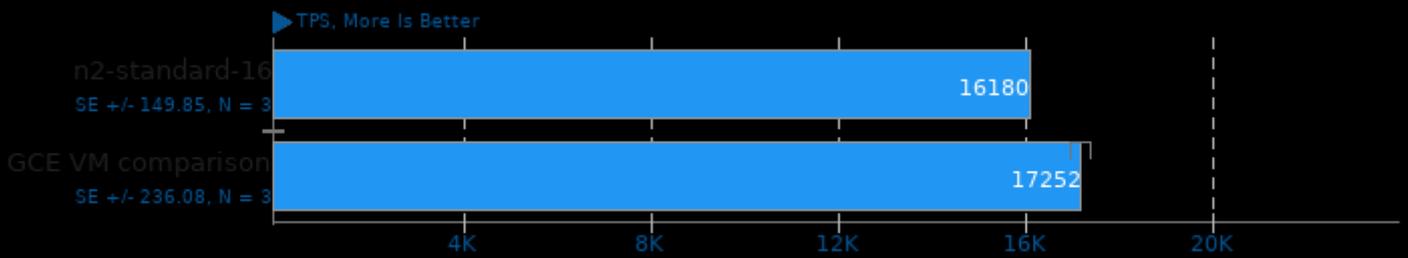
Scaling Factor: 1000 - Clients: 1 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 13.0

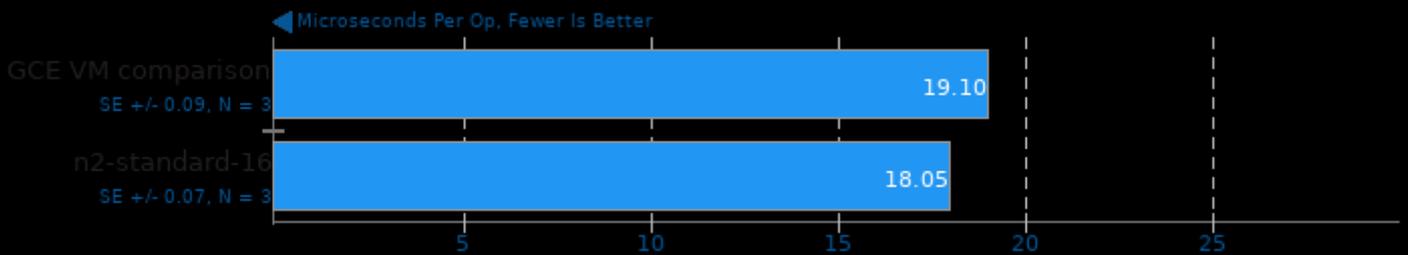
Scaling Factor: 1000 - Clients: 1 - Mode: Read Only



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

LevelDB 1.22

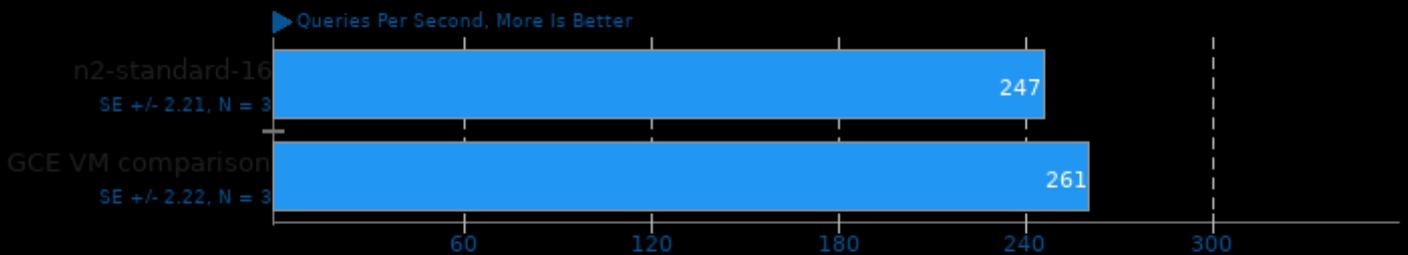
Benchmark: Seek Random



1. (CXX) g++ options: -O3 -lsnappy -lpthread

MariaDB 10.5.2

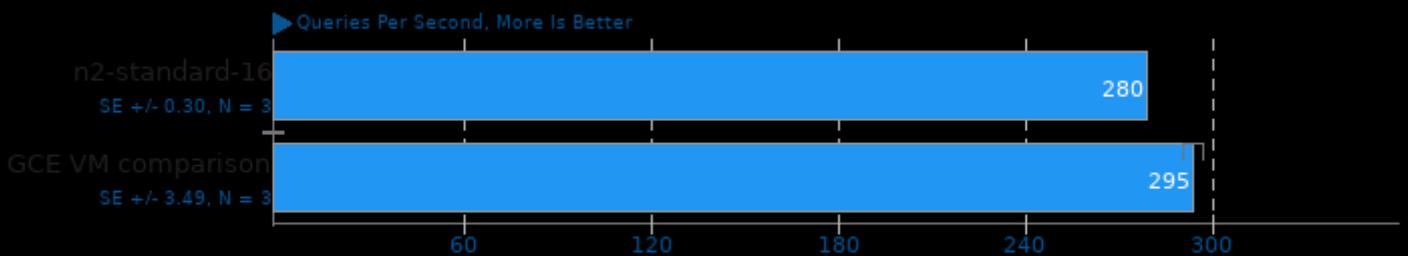
Clients: 512



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O2 -lpthread -lsnappy -lcrypt -lz -lm -lssl -lcrypto -ldl

MariaDB 10.5.2

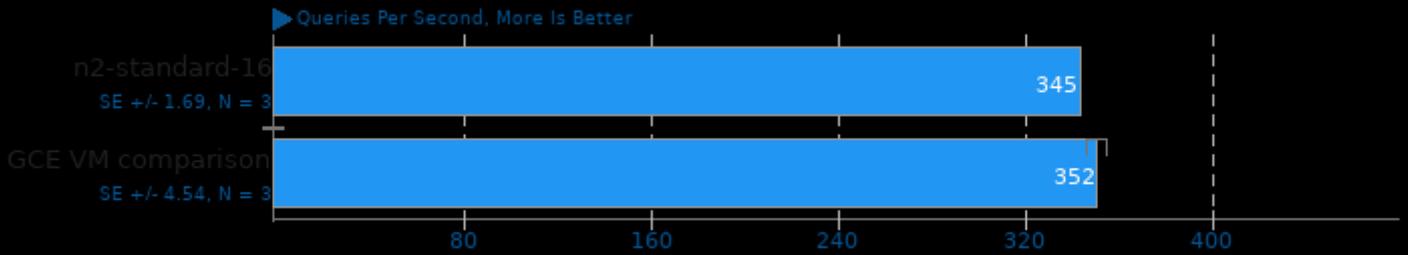
Clients: 256



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O2 -lpthread -lsnappy -lcrypt -lz -lm -lssl -lcrypto -ldl

MariaDB 10.5.2

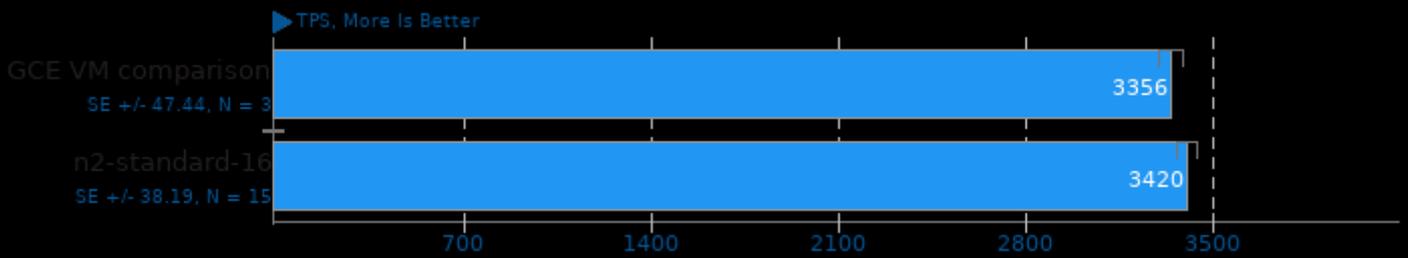
Clients: 128



1. (CXX) g++ options: -pie -fPIC -fstack-protector -O2 -lpthread -lsnappy -lcrypt -lz -lm -lssl -lcrypto -ldl

PostgreSQL pgbench 13.0

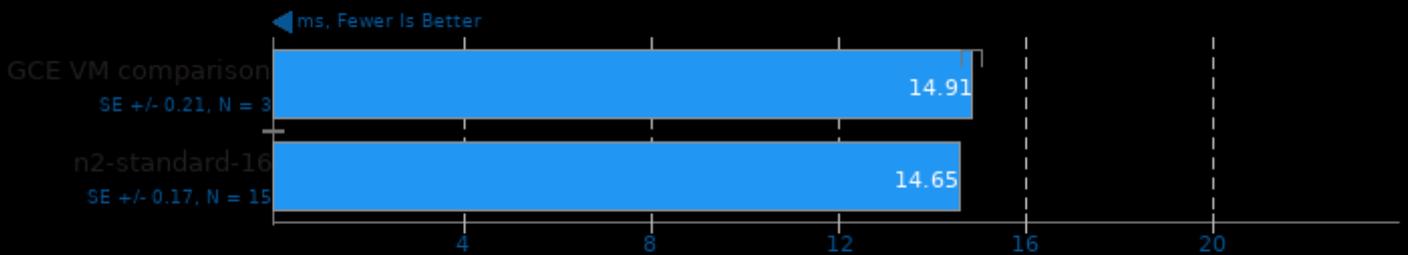
Scaling Factor: 100 - Clients: 50 - Mode: Read Write



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

PostgreSQL pgbench 13.0

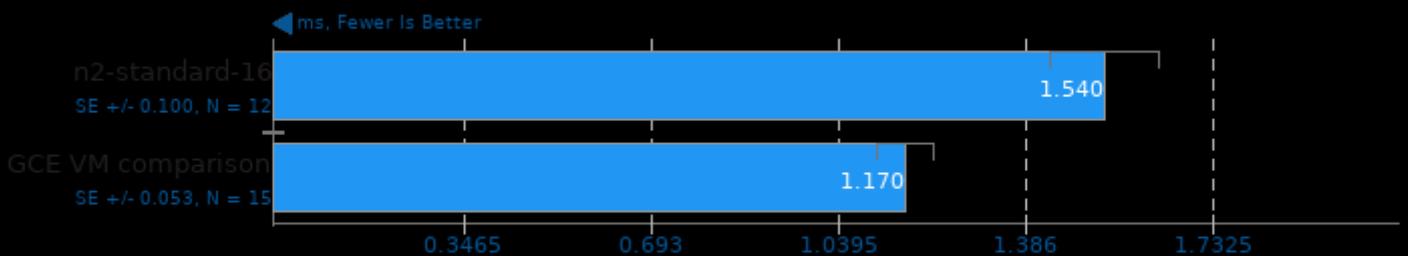
Scaling Factor: 100 - Clients: 50 - Mode: Read Write - Average Latency



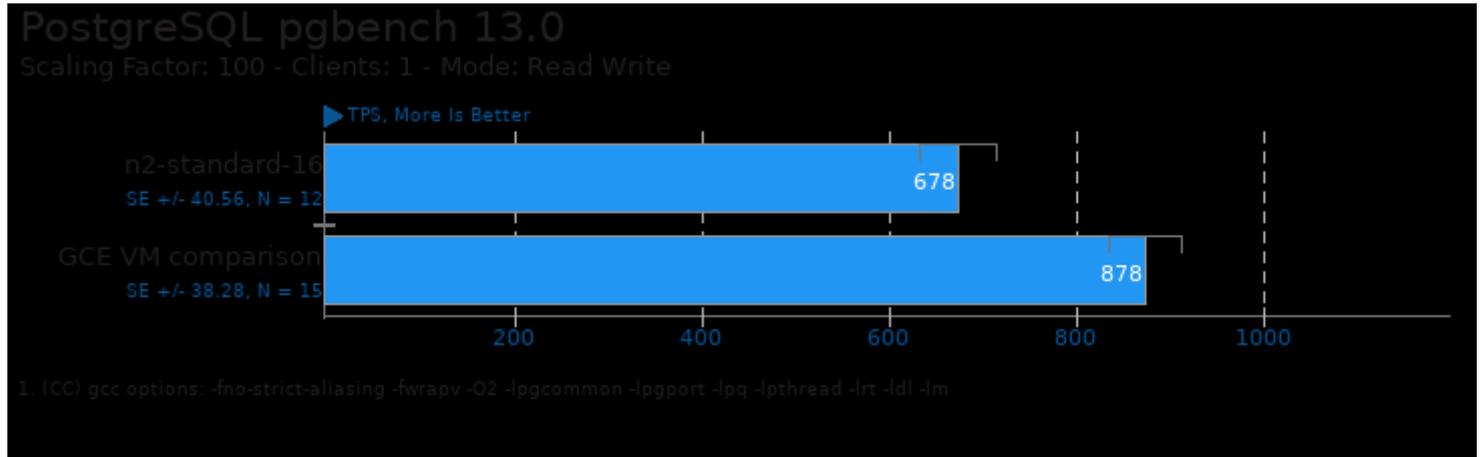
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL pgbench 13.0

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



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



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 10:07.