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10900K Linux 5.11

Intel Core i9-10900K testing with a Gigabyte Z490 AORUS MASTER (F3 BIOS) and Gigabyte AMD Radeon RX 5500/5500M / Pro 5500M 8GB on Ubuntu 20.10 via the Phoronix Test Suite.

Automated Executive Summary

5 Jan had the most wins, coming in first place for 68% of the tests.

Based on the geometric mean of all complete results, the fastest (5 Jan) was 1.012x the speed of the slowest (6 Jan).

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

Hackbench (Count: 4 - Type: Thread) at 1.057x
PostgreSQL pgbench (Scaling Factor: 1000 - Clients: 250 - Mode: Read Write) at 1.052x
PostgreSQL pgbench (Scaling Factor: 1000 - Clients: 250 - Mode: Read Write - Average Latency) at 1.052x
Apache Siege (Concurrent Users: 10) at 1.047x
PostgreSQL pgbench (Scaling Factor: 1000 - Clients: 50 - Mode: Read Write) at 1.026x
PostgreSQL pgbench (Scaling Factor: 1000 - Clients: 50 - Mode: Read Write - Average Latency) at 1.026x
KeyDB at 1.026x
PostgreSQL pgbench (Scaling Factor: 1000 - Clients: 50 - Mode: Read Only) at 1.018x
PostgreSQL pgbench (Scaling Factor: 1000 - Clients: 50 - Mode: Read Only - Average Latency) at 1.017x
Redis (Test: GET) at 1.016x.

Test Systems:

5 Jan

Processor: Intel Core i9-10900K @ 5.30GHz (10 Cores / 20 Threads), Motherboard: Gigabyte Z490 AORUS MASTER (F3 BIOS), Chipset: Intel Comet Lake PCH, Memory: 16GB, Disk: Samsung SSD 970 EVO 250GB, Graphics: Gigabyte AMD Radeon RX 5500/5500M / Pro 5500M 8GB (1900/875MHz), Audio: Realtek ALC1220, Monitor: ASUS MG28U, Network: Intel + Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.0-051100rc2daily20210105-generic (x86_64) 20210104, Desktop: GNOME Shell 3.38.1, Display Server: X Server 1.20.9, Display Driver: modesetting 1.20.9, OpenGL: 4.6 Mesa 20.2.1 (LLVM 11.0.0), Vulkan: 1.2.131, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xe0 - Thermald 2.3
Python Notes: Python 3.8.6
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + 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: Not affected

6 Jan

Processor: Intel Core i9-10900K @ 5.30GHz (10 Cores / 20 Threads), Motherboard: Gigabyte Z490 AORUS MASTER (F3 BIOS), Chipset: Intel Comet Lake PCH, Memory: 16GB, Disk: Samsung SSD 970 EVO 250GB, Graphics: Gigabyte AMD Radeon RX 5500/5500M / Pro 5500M 8GB (1900/875MHz), Audio: Realtek ALC1220, Monitor: ASUS MG28U, Network: Intel + Intel Wi-Fi 6 AX201

OS: Ubuntu 20.10, Kernel: 5.11.0-051100rc2daily20210106-generic (x86_64) 20210105, Desktop: GNOME Shell 3.38.1, Display Server: X Server 1.20.9, Display Driver: modesetting 1.20.9, OpenGL: 4.6 Mesa 20.2.1 (LLVM 11.0.0), Vulkan: 1.2.131, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xe0 - Thermald 2.3
Python Notes: Python 3.8.6
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + 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: Not affected

	5 Jan	6 Jan
KeyDB (Ops/sec)	**856758**	**834885**
Normalized	100%	97.45%
Standard Deviation	1.9%	0.4%

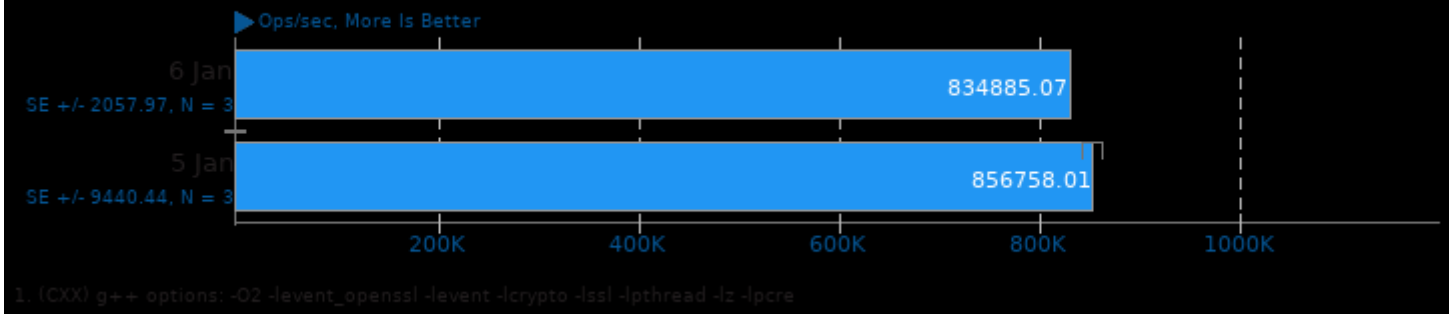
Redis - GET (Reqs/sec)	**3275663**	**3223547**
Normalized	100%	98.41%
Standard Deviation	0.7%	3.3%
Redis - SET (Reqs/sec)	**2589388**	**2573474**
Normalized	100%	99.39%
Standard Deviation	1.5%	1%
PostgreSQL pgbench - 100 - 50 - Read Only (TPS)	**311806**	**312458**
Normalized	99.79%	100%
Standard Deviation	0.1%	0.1%
PostgreSQL pgbench - 100 - 100 - Read Only (TPS)	**314928**	**314535**
Normalized	100%	99.88%
Standard Deviation	0.4%	0.1%
PostgreSQL pgbench - 100 - 250 - Read Only (TPS)	**278377**	**278782**
Normalized	99.85%	100%
Standard Deviation	0.4%	0.7%
PostgreSQL pgbench - 100 - 50 - Read Write (TPS)	**8462**	**7577**
Normalized	100%	89.54%
Standard Deviation	1.9%	7.8%
PostgreSQL pgbench - 1000 - 50 - Read Only (TPS)	**273745**	**278805**
Normalized	98.19%	100%
Standard Deviation	5.1%	4.8%
PostgreSQL pgbench - 100 - 100 - Read Write (TPS)	**9384**	**9226**
Normalized	100%	98.32%
Standard Deviation	2.6%	6.3%
PostgreSQL pgbench - 100 - 250 - Read Write (TPS)	**9183**	**9055**
Normalized	100%	98.61%
Standard Deviation	3%	2.7%
PostgreSQL pgbench - 1000 - 100 - Read Only (TPS)	**279627**	**279120**
Normalized	100%	99.82%
Standard Deviation	0.3%	0.2%
PostgreSQL pgbench - 1000 - 250 - Read Only (TPS)	**232075**	**230958**
Normalized	100%	99.52%
Standard Deviation	0.3%	0.3%
PostgreSQL pgbench - 1000 - 50 - Read Write (TPS)	**4465**	**4350**
Normalized	100%	97.42%
Standard Deviation	0.1%	1.5%
PostgreSQL pgbench - 1000 - 100 - Read Write (TPS)	**5070**	**5060**
Normalized	100%	99.8%
Standard Deviation	3.6%	1.8%
PostgreSQL pgbench - 1000 - 250 - Read Write (TPS)	**6376**	**6061**
Normalized	100%	95.06%
Standard Deviation	1.5%	0.5%
Apache Siege - 1 (Transactions/sec)	**11106**	**11085**
Normalized	100%	99.81%
Standard Deviation	5.3%	3.8%
Apache Siege - 10 (Transactions/sec)	**29209**	**30594**
Normalized	95.47%	100%
Standard Deviation	3%	2.5%
Apache Siege - 50 (Transactions/sec)	**67668**	**70540**
Normalized	95.93%	100%
Standard Deviation	16%	6.1%
Apache Siege - 100 (Transactions/sec)	**94617**	**80232**
Normalized	100%	84.8%
Standard Deviation	3.1%	14.6%
Apache Siege - 200 (Transactions/sec)	**105804**	**106079**

Normalized	99.74%	100%
Standard Deviation	5.5%	3.2%
Apache Siege - 250 (Transactions/sec)	**100723**	**101458**
Normalized	99.28%	100%
Standard Deviation	2.4%	2.3%
Apache Siege - 500 (Transactions/sec)	**100551**	**100413**
Normalized	100%	99.86%
Standard Deviation	2.4%	3%
InfluxDB - 4 - 10000 - 2,5000,1 - 10000 (val/sec)	**1774810**	**1774977**
Normalized	99.99%	100%
Standard Deviation	0.3%	0.3%
InfluxDB - 64 - 10000 - 2,5000,1 - 10000 (val/sec)	**1866312**	**1864598**
Normalized	100%	99.91%
Standard Deviation	0.2%	0.5%
InfluxDB - 1024 - 10000 - 2,5000,1 - 10000 (val/sec)	**1865119**	**1871141**
Normalized	99.68%	100%
Standard Deviation	0.3%	0.5%
PostgreSQL pgbench - 100 - 50 - Read Only - Average Latency (ms)	0.160	0.16
Standard Deviation	0.4%	0%
PostgreSQL pgbench - 100 - 100 - Read Only - Average Latency (ms)	0.318	0.318
Standard Deviation	0.3%	0.2%
PostgreSQL pgbench - 100 - 250 - Read Only - Average Latency (ms)	**0.898**	**0.897**
Normalized	99.89%	100%
Standard Deviation	0.3%	0.7%
PostgreSQL pgbench - 100 - 50 - Read Write - Average Latency (ms)	**5.911**	**6.639**
Normalized	100%	89.03%
Standard Deviation	1.9%	8.1%
PostgreSQL pgbench - 1000 - 50 - Read Only - Average Latency (ms)	**0.183**	**0.180**
Normalized	98.36%	100%
Standard Deviation	5.6%	5.3%
PostgreSQL pgbench - 100 - 100 - Read Write - Average Latency (ms)	**10.667**	**10.887**
Normalized	100%	97.98%
Standard Deviation	2.6%	6.3%
PostgreSQL pgbench - 100 - 250 - Read Write - Average Latency (ms)	**27.256**	**27.640**
Normalized	100%	98.61%
Standard Deviation	3%	2.8%
PostgreSQL pgbench - 1000 - 100 - Read Only - Average Latency (ms)	0.358	0.358
Standard Deviation	0.3%	0.2%
PostgreSQL pgbench - 1000 - 250 - Read Only - Average Latency (ms)	**1.078**	**1.083**
Normalized	100%	99.54%
Standard Deviation	0.2%	0.3%
PostgreSQL pgbench - 1000 - 50 - Read Write - Average Latency (ms)	**11.200**	**11.496**
Normalized	100%	97.43%
Standard Deviation	0.1%	1.5%

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PostgreSQL pgbench - 1000 - 100 - Read Write - Average Latency (ms)	**19.764**	**19.776**
Normalized	100%	99.94%
Standard Deviation	4%	1.8%
PostgreSQL pgbench - 1000 - 250 - Read Write - Average Latency (ms)	**39.238**	**41.274**
Normalized	100%	95.07%
Standard Deviation	1.5%	0.5%
Timed Linux Kernel Compilation - Time To Compile	**65.092**	**65.423**
Normalized	100%	99.49%
Standard Deviation	1.6%	1.8%
Timed LLVM Compilation - Time To Compile (sec)	**518.229**	**514.250**
Normalized	99.23%	100%
Standard Deviation	1.6%	0.7%
Hackbench - 1 - Thread (sec)	**2.752**	**2.743**
Normalized	99.67%	100%
Standard Deviation	0.2%	0.4%
Hackbench - 2 - Thread (sec)	**4.731**	**4.762**
Normalized	100%	99.35%
Standard Deviation	0.1%	0.5%
Hackbench - 4 - Thread (sec)	**8.317**	**8.789**
Normalized	100%	94.63%
Standard Deviation	0.3%	4.5%
Hackbench - 8 - Thread (sec)	**15.839**	**15.590**
Normalized	98.43%	100%
Standard Deviation	3.5%	0.1%
Hackbench - 1 - Process (sec)	**2.588**	**2.580**
Normalized	99.69%	100%
Standard Deviation	0.6%	0.6%
Hackbench - 16 - Thread (sec)	**30.928**	**31.056**
Normalized	100%	99.59%
Standard Deviation	0.2%	0.6%
Hackbench - 2 - Process (sec)	**4.496**	**4.485**
Normalized	99.76%	100%
Standard Deviation	0%	0.6%
Hackbench - 4 - Process (sec)	**7.717**	**7.743**
Normalized	100%	99.66%
Standard Deviation	0.1%	0.2%
Hackbench - 8 - Process (sec)	**14.831**	**14.914**
Normalized	100%	99.44%
Standard Deviation	0.2%	0.1%
Hackbench - 16 - Process (sec)	**29.953**	**30.041**
Normalized	100%	99.71%
Standard Deviation	0.1%	0.2%
Hackbench - 32 - Process (sec)	**61.054**	**61.344**
Normalized	100%	99.53%
Standard Deviation	0.4%	0.7%

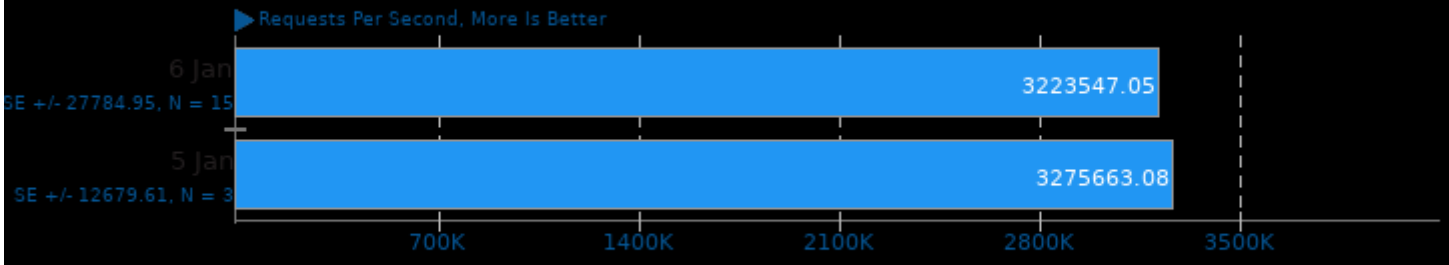
KeyDB 6.0.16



1. (CXX) g++ options: -O2 -levent_openssl -levent -lcrypto -lssl -lpthread -lz -lpcre

Redis 6.0.9

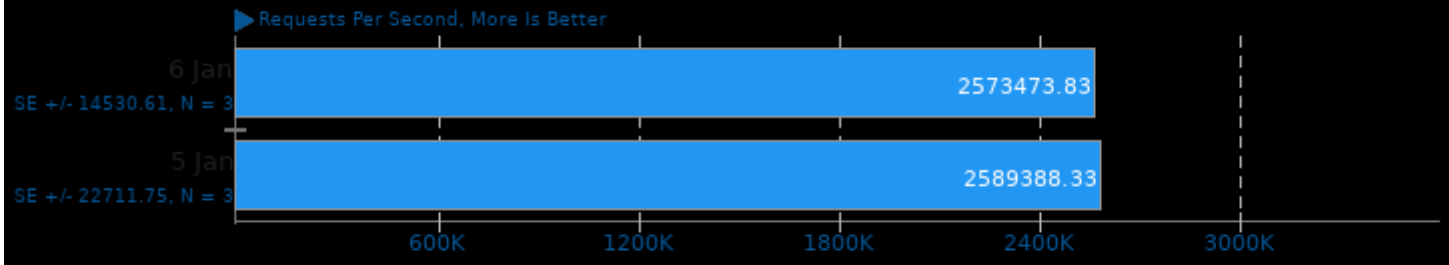
Test: GET



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Redis 6.0.9

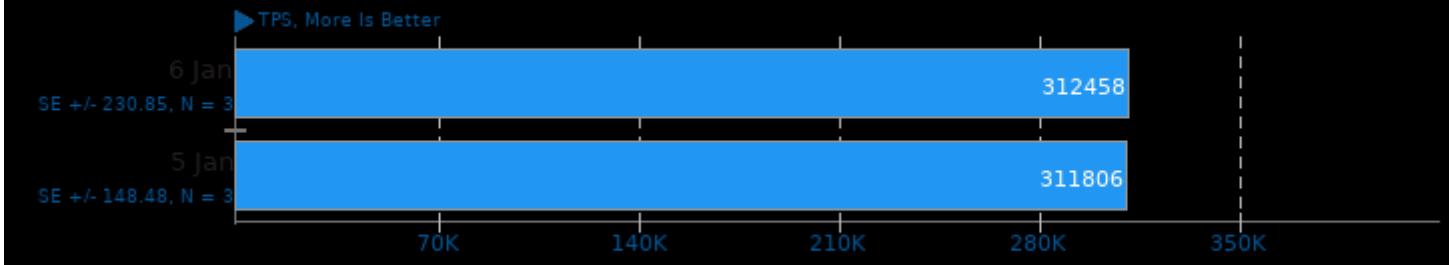
Test: SET



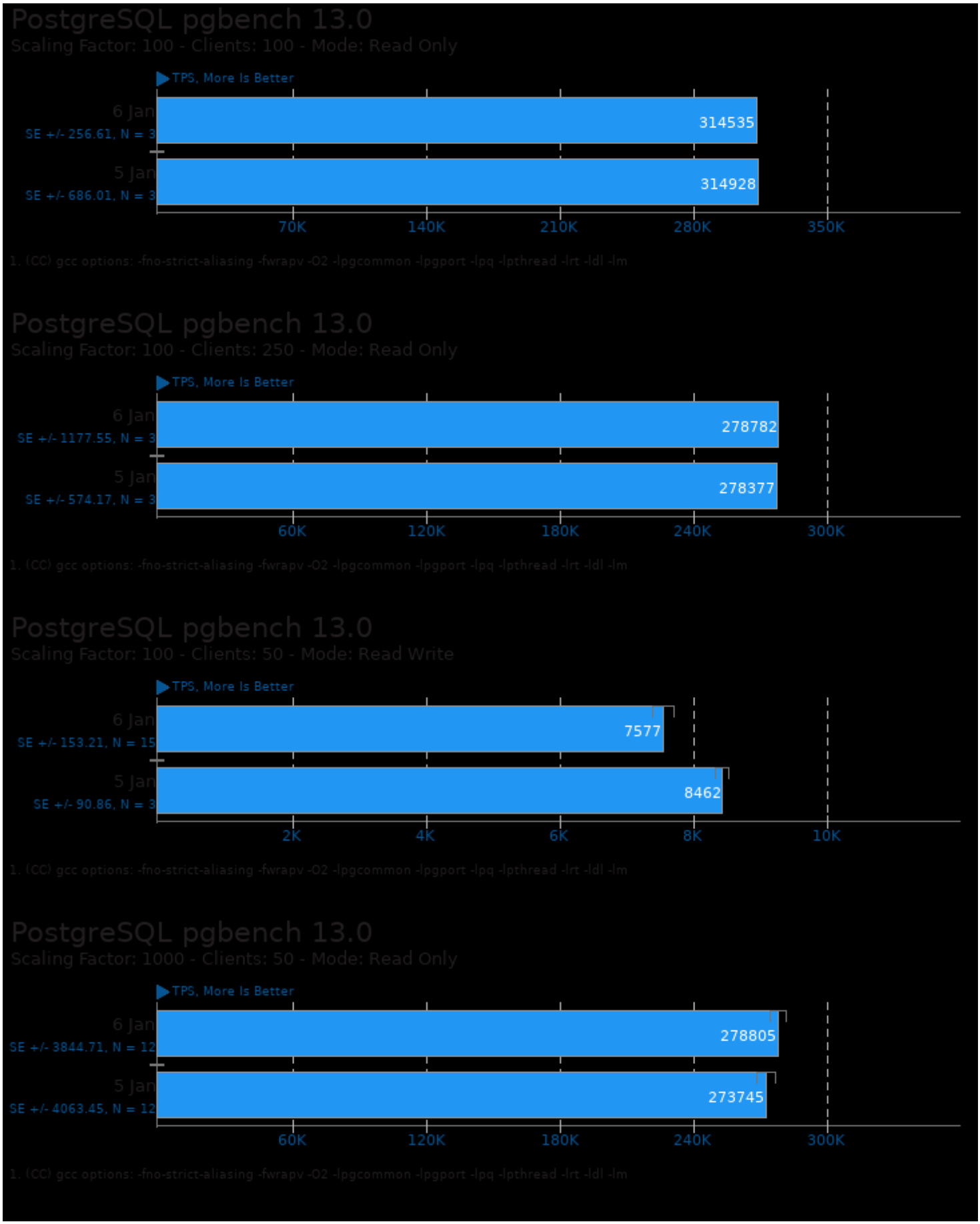
1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

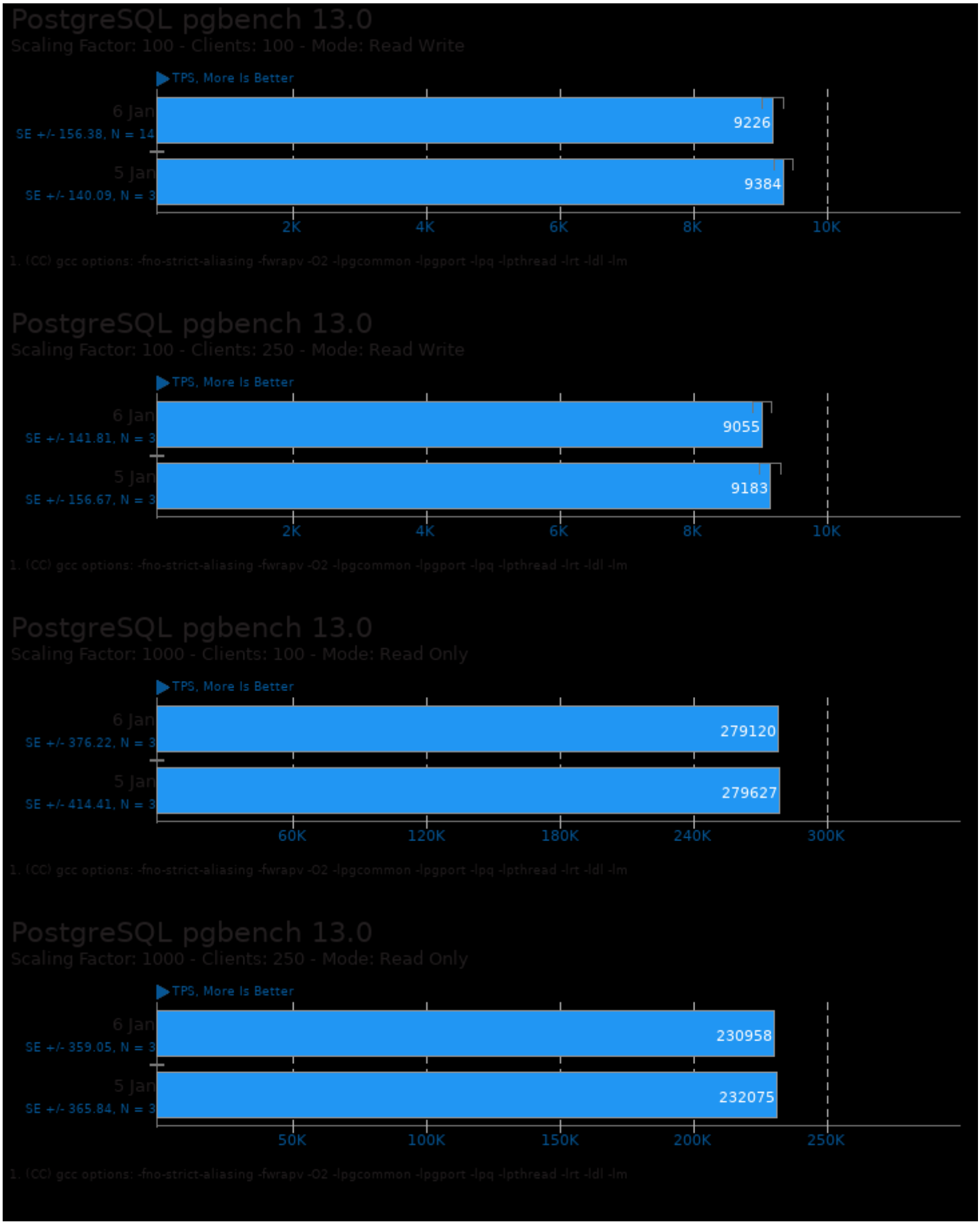
PostgreSQL pgbench 13.0

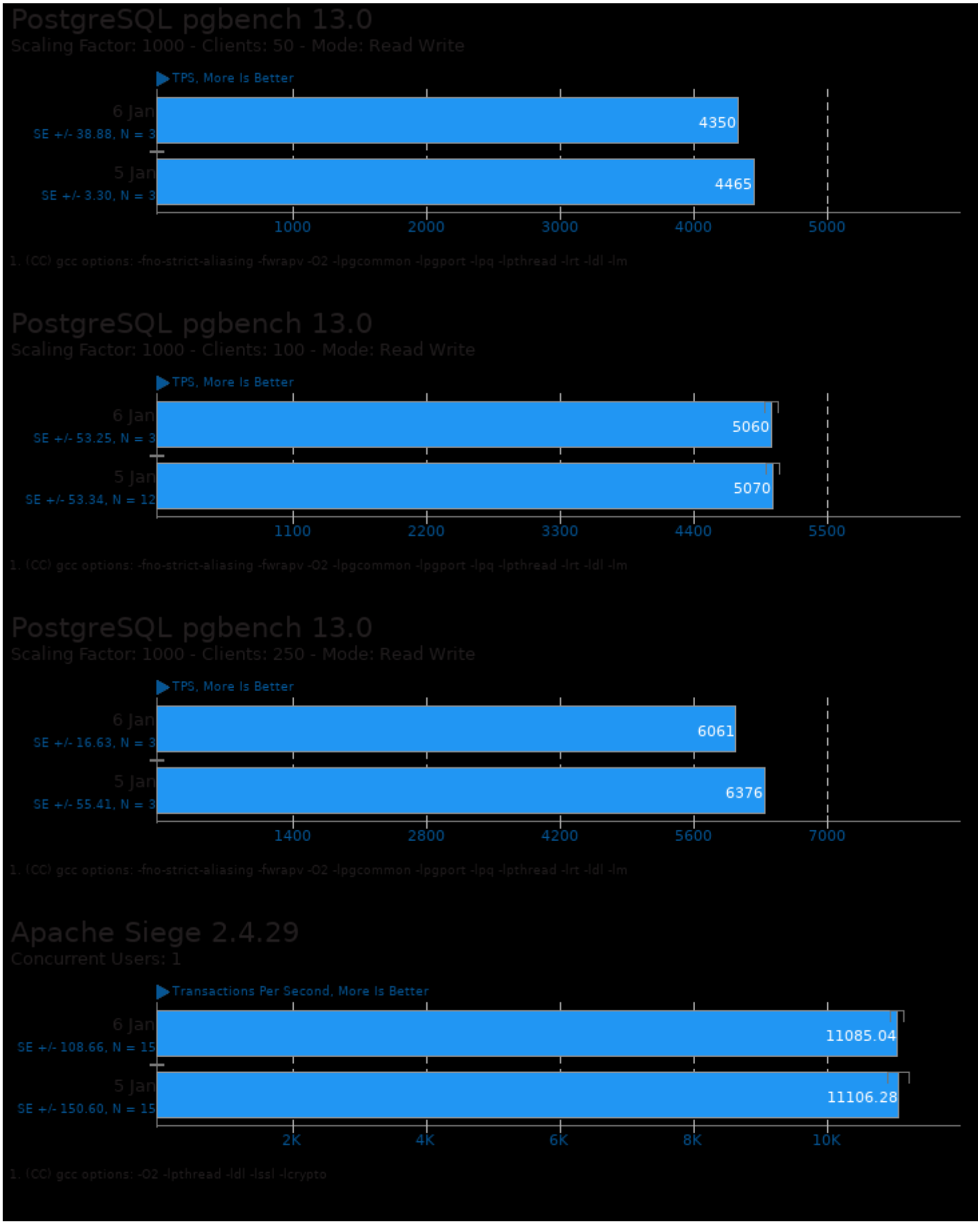
Scaling Factor: 100 - Clients: 50 - Mode: Read Only

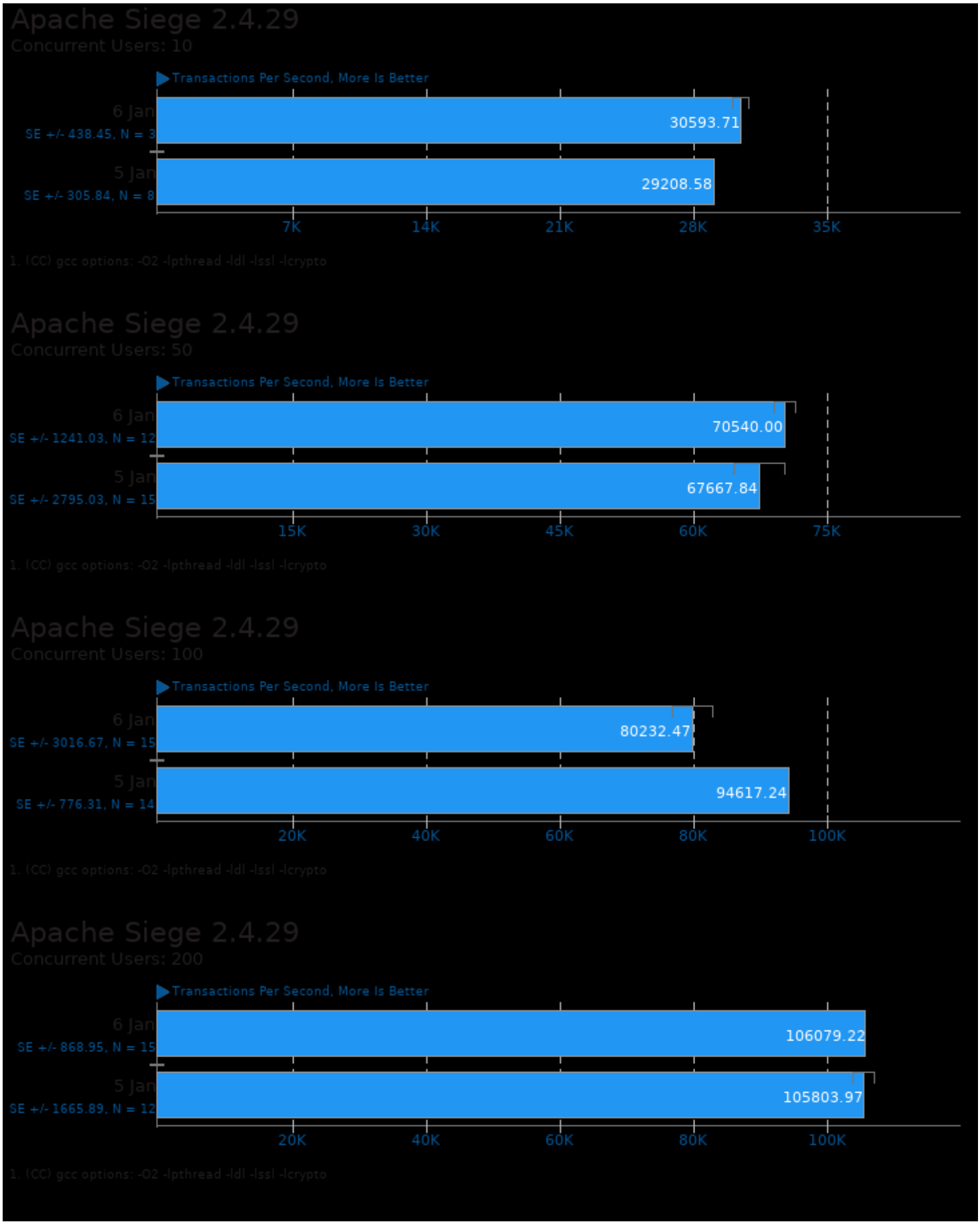


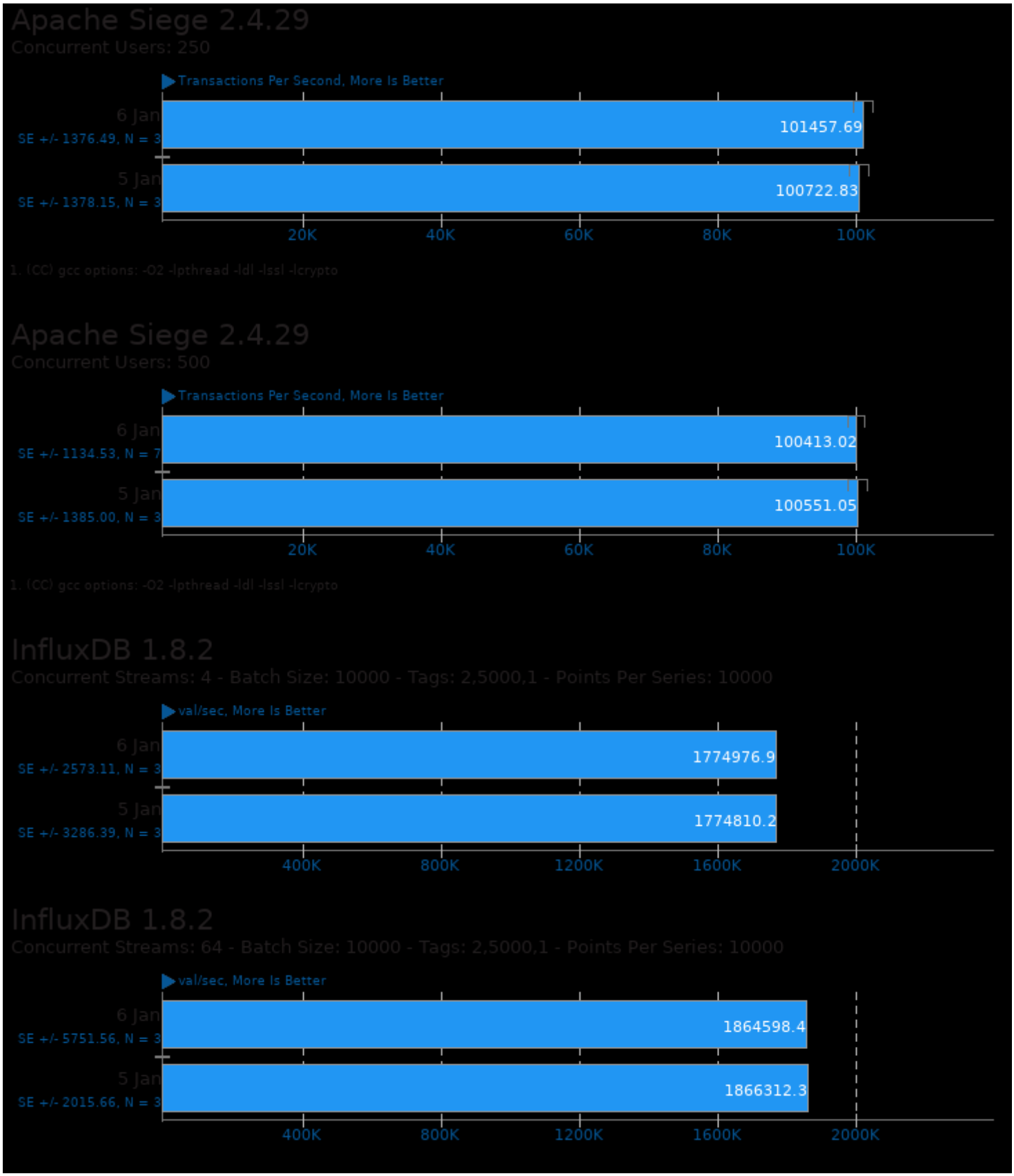
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm


PostgreSQL pgbench 13.0
Scaling Factor: 100 - Clients: 100 - Mode: Read Only
TPS, More Is Better
6 Jan
SE +/- 256.61, N = 3
314535
5 Jan
SE +/- 686.01, N = 3
314928
70K
140K
210K
280K
350K
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
TPS, More Is Better
6 Jan
SE +/- 1177.55, N = 3
278782
5 Jan
SE +/- 574.17, N = 3
278377
60K
120K
180K
240K
300K
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
TPS, More Is Better
6 Jan
SE +/- 153.21, N = 15
7577
5 Jan
SE +/- 90.86, N = 3
8462
2K
4K
6K
8K
10K
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
TPS, More Is Better
6 Jan
SE +/- 3844.71, N = 12
278805
5 Jan
SE +/- 4063.45, N = 12
273745
60K
120K
180K
240K
300K
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 Write
TPS, More Is Better
6 Jan
SE +/- 156.38, N = 14
9226
5 Jan
SE +/- 140.09, N = 3
9384
2K
4K
6K
8K
10K
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 Write
TPS, More Is Better
6 Jan
SE +/- 141.81, N = 3
9055
5 Jan
SE +/- 156.67, N = 3
9183
2K
4K
6K
8K
10K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 13.0
Scaling Factor: 1000 - Clients: 100 - Mode: Read Only
TPS, More Is Better
6 Jan
SE +/- 376.22, N = 3
279120
5 Jan
SE +/- 414.41, N = 3
279627
60K
120K
180K
240K
300K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 13.0
Scaling Factor: 1000 - Clients: 250 - Mode: Read Only
TPS, More Is Better
6 Jan
SE +/- 359.05, N = 3
230958
5 Jan
SE +/- 365.84, N = 3
232075
50K
100K
150K
200K
250K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

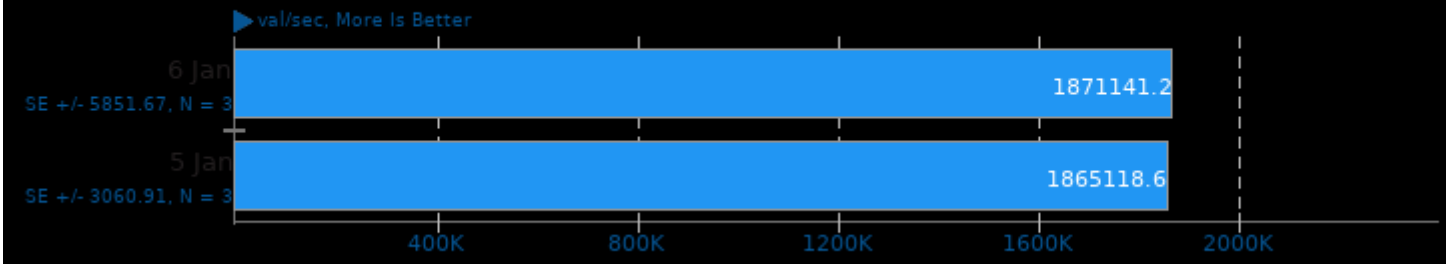

PostgreSQL pgbench 13.0
Scaling Factor: 1000 - Clients: 50 - Mode: Read Write
TPS, More Is Better
6 Jan
SE +/- 38.88, N = 3
4350
5 Jan
SE +/- 3.30, N = 3
4465
1000
2000
3000
4000
5000
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 13.0
Scaling Factor: 1000 - Clients: 100 - Mode: Read Write
TPS, More Is Better
6 Jan
SE +/- 53.25, N = 3
5060
5 Jan
SE +/- 53.34, N = 12
5070
1100
2200
3300
4400
5500
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 13.0
Scaling Factor: 1000 - Clients: 250 - Mode: Read Write
TPS, More Is Better
6 Jan
SE +/- 16.63, N = 3
6061
5 Jan
SE +/- 55.41, N = 3
6376
1400
2800
4200
5600
7000
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
Apache Siege 2.4.29
Concurrent Users: 1
Transactions Per Second, More Is Better
6 Jan
SE +/- 108.66, N = 15
11085.04
5 Jan
SE +/- 150.60, N = 15
11106.28
2K
4K
6K
8K
10K
1. (CC) gcc options: -O2 -lpthread -ldl -lssl -lcrypto


Apache Siege 2.4.29
Concurrent Users: 10
Transactions Per Second, More Is Better
6 Jan
SE +/- 438.45, N = 3
30593.71
5 Jan
SE +/- 305.84, N = 8
29208.58
7K
14K
21K
28K
35K
1. (CC) gcc options: -O2 -lpthread -ldl -lssl -lcrypto
Apache Siege 2.4.29
Concurrent Users: 50
Transactions Per Second, More Is Better
6 Jan
SE +/- 1241.03, N = 12
70540.00
5 Jan
SE +/- 2795.03, N = 15
67667.84
15K
30K
45K
60K
75K
1. (CC) gcc options: -O2 -lpthread -ldl -lssl -lcrypto
Apache Siege 2.4.29
Concurrent Users: 100
Transactions Per Second, More Is Better
6 Jan
SE +/- 3016.67, N = 15
80232.47
5 Jan
SE +/- 776.31, N = 14
94617.24
20K
40K
60K
80K
100K
1. (CC) gcc options: -O2 -lpthread -ldl -lssl -lcrypto
Apache Siege 2.4.29
Concurrent Users: 200
Transactions Per Second, More Is Better
6 Jan
SE +/- 868.95, N = 15
106079.22
5 Jan
SE +/- 1665.89, N = 12
105803.97
20K
40K
60K
80K
100K
1. (CC) gcc options: -O2 -lpthread -ldl -lssl -lcrypto


Apache Siege 2.4.29
Concurrent Users: 250
Transactions Per Second, More Is Better
6 Jan
SE +/- 1376.49, N = 3
101457.69
5 Jan
SE +/- 1378.15, N = 3
100722.83
20K
40K
60K
80K
100K
1. (CC) gcc options: -O2 -lpthread -ldl -lssl -lcrypto
Apache Siege 2.4.29
Concurrent Users: 500
Transactions Per Second, More Is Better
6 Jan
SE +/- 1134.53, N = 7
100413.02
5 Jan
SE +/- 1385.00, N = 3
100551.05
20K
40K
60K
80K
100K
1. (CC) gcc options: -O2 -lpthread -ldl -lssl -lcrypto
InfluxDB 1.8.2
Concurrent Streams: 4 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000
val/sec, More Is Better
6 Jan
SE +/- 2573.11, N = 3
1774976.9
5 Jan
SE +/- 3286.39, N = 3
1774810.2
400K
800K
1200K
1600K
2000K
InfluxDB 1.8.2
Concurrent Streams: 64 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000
val/sec, More Is Better
6 Jan
SE +/- 5751.56, N = 3
1864598.4
5 Jan
SE +/- 2015.66, N = 3
1866312.3
400K
800K
1200K
1600K
2000K

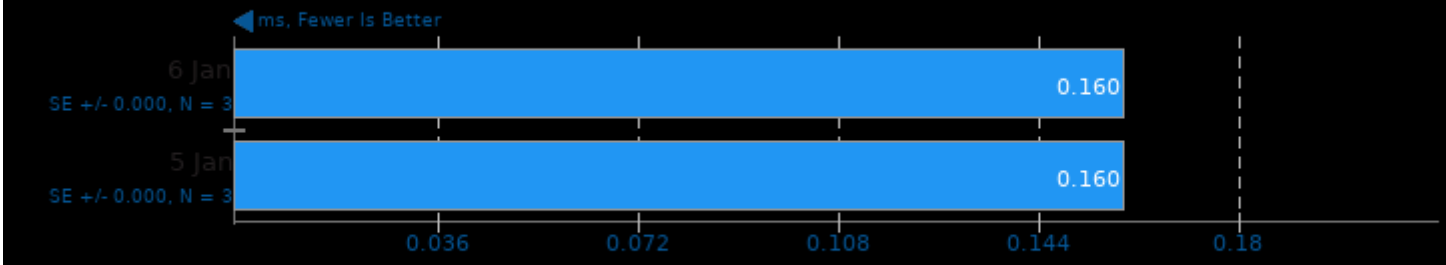
InfluxDB 1.8.2

Concurrent Streams: 1024 - Batch Size: 10000 - Tags: 2,5000,1 - Points Per Series: 10000



PostgreSQL pgbench 13.0

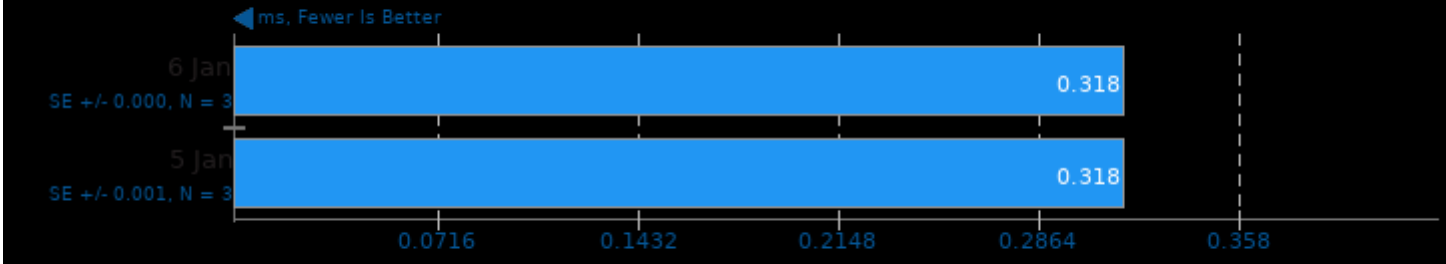
Scaling Factor: 100 - Clients: 50 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 13.0

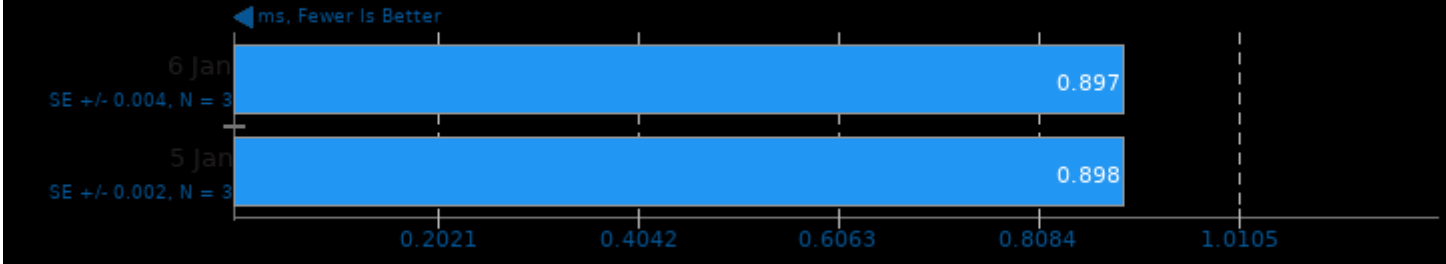
Scaling Factor: 100 - Clients: 100 - Mode: Read Only - Average Latency



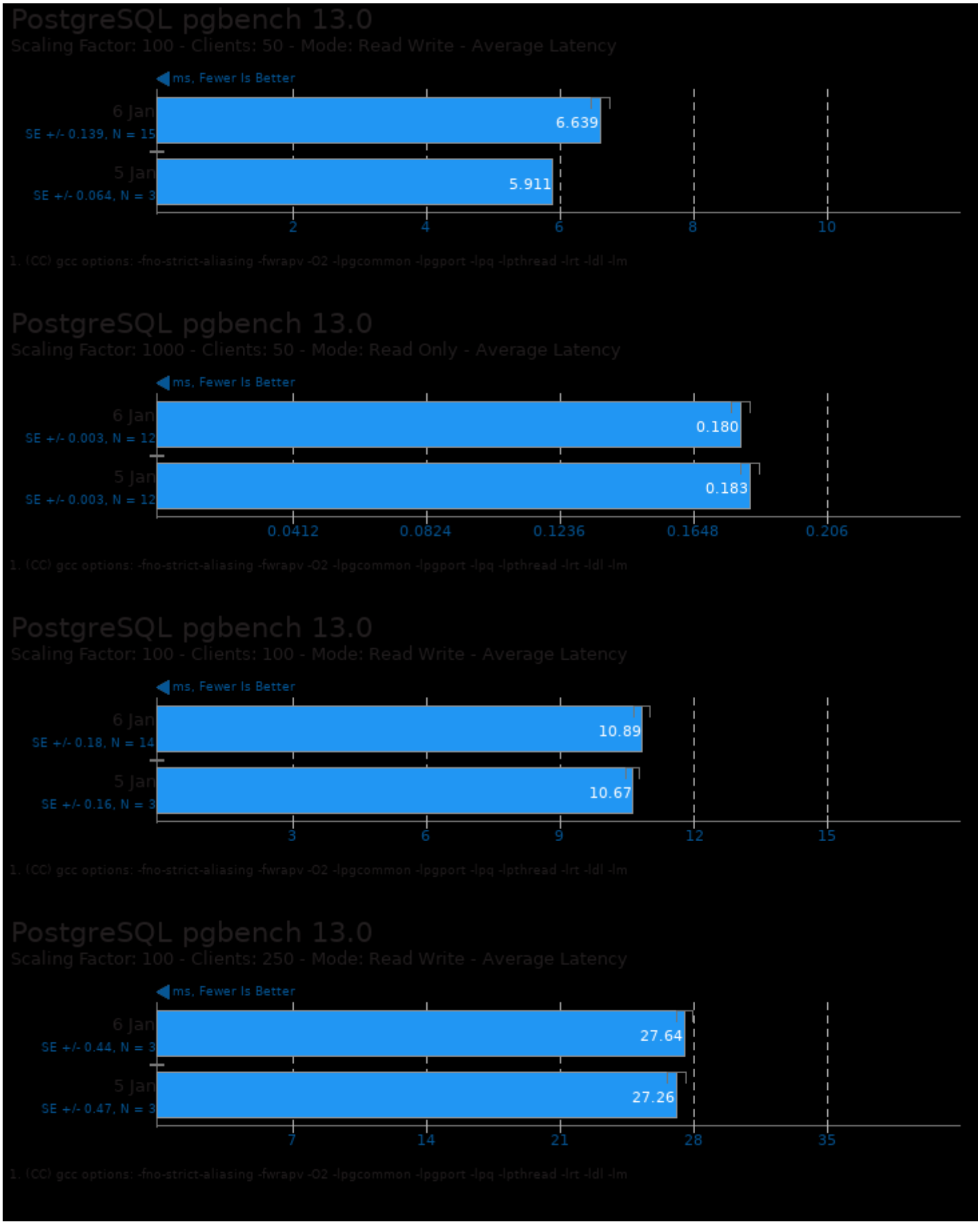
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

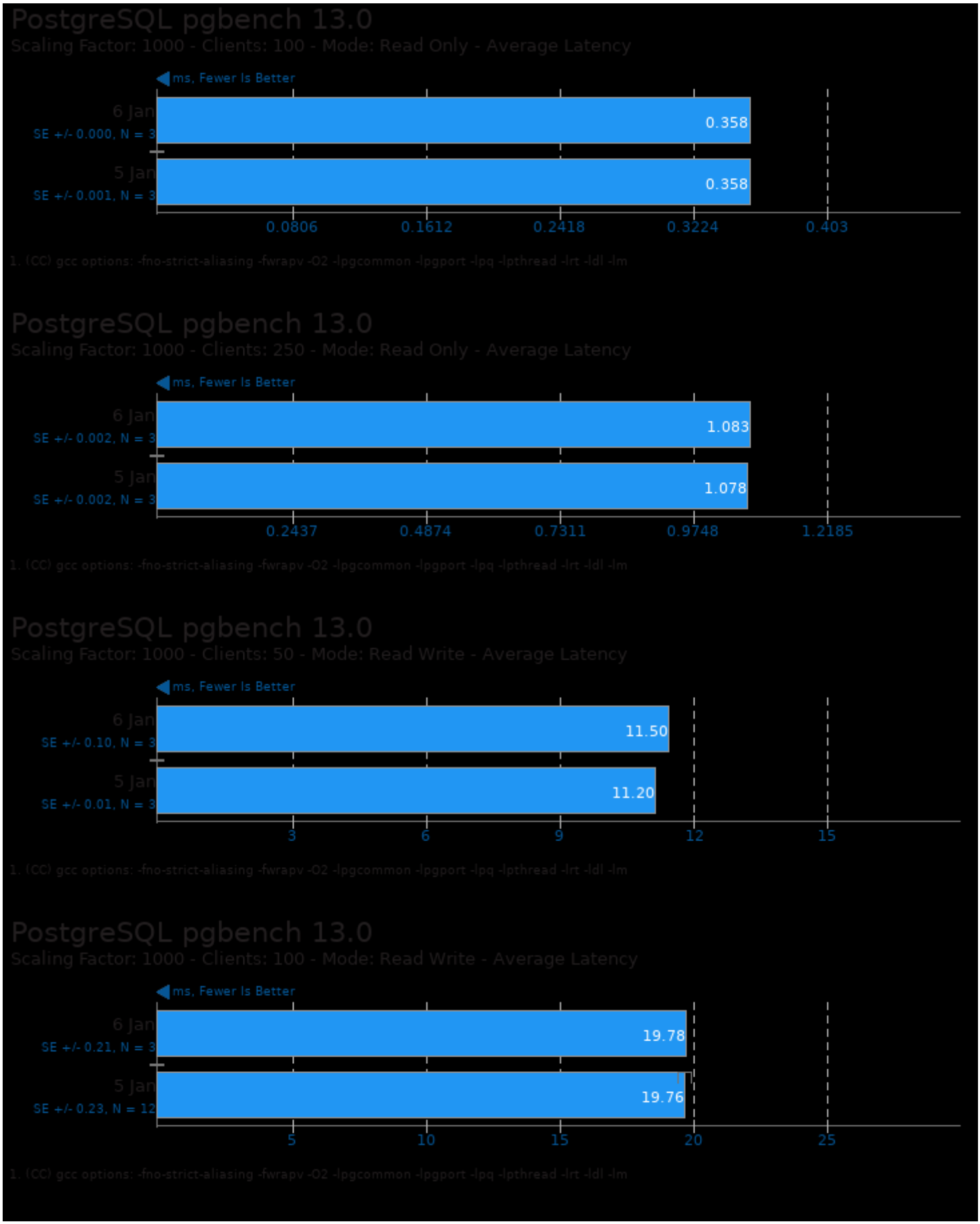
PostgreSQL pgbench 13.0

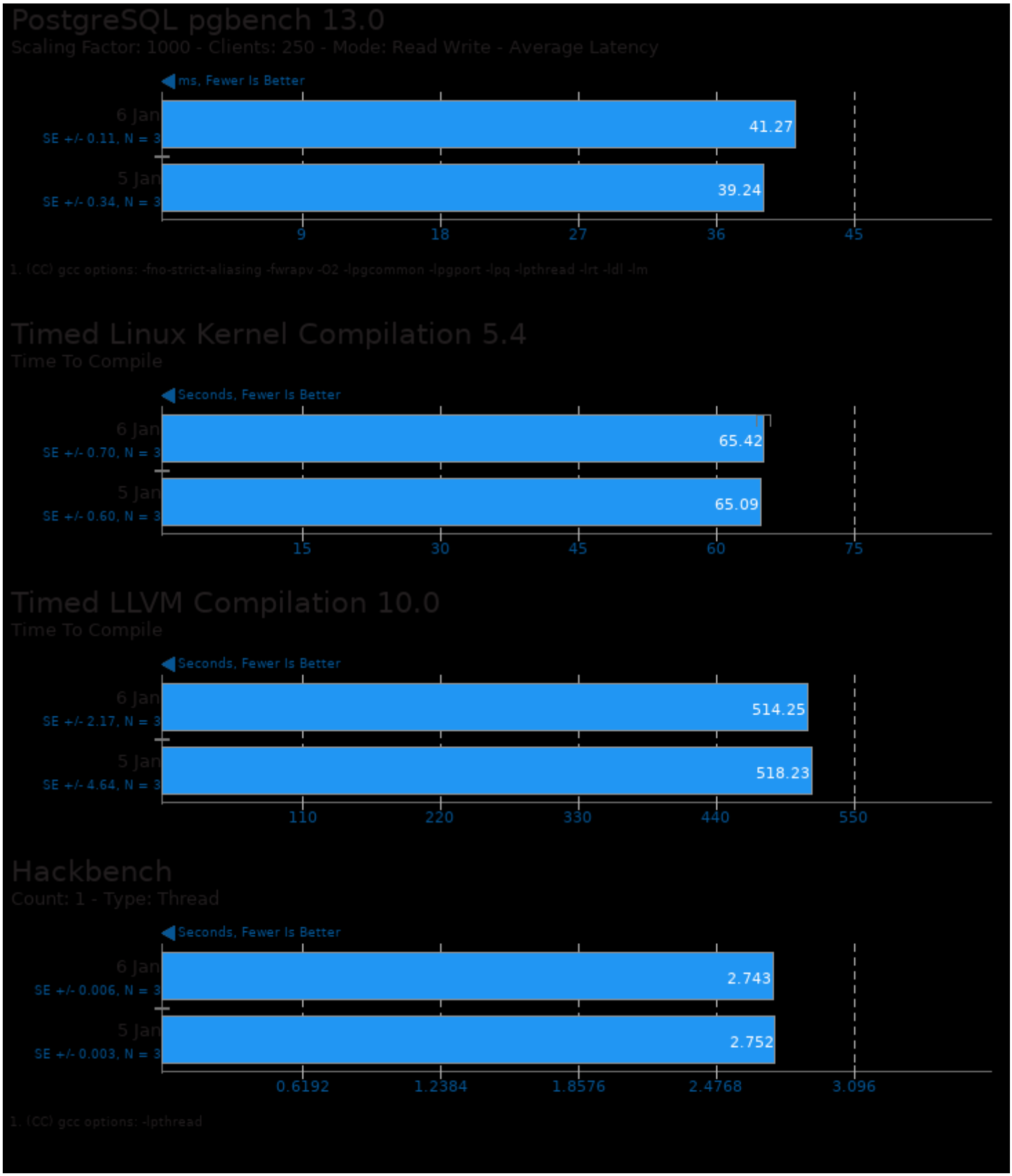
Scaling Factor: 100 - Clients: 250 - Mode: Read Only - Average Latency



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

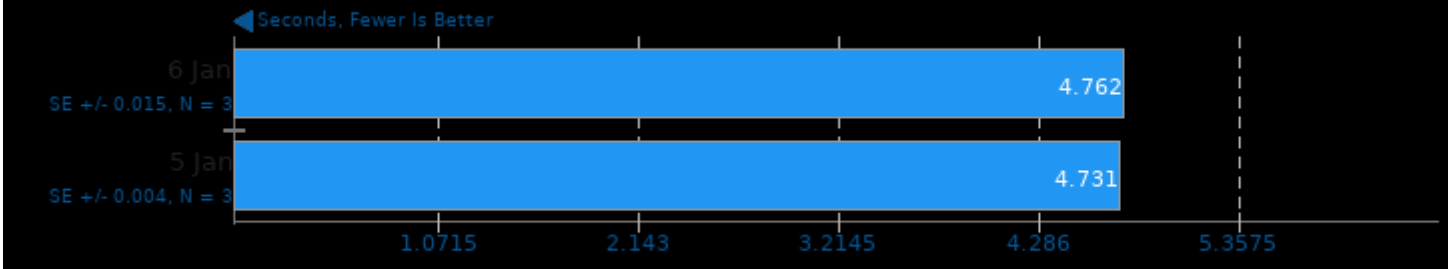

PostgreSQL pgbench 13.0
Scaling Factor: 100 - Clients: 50 - Mode: Read Write - Average Latency
ms, Fewer Is Better
6 Jan
SE +/- 0.139, N = 15
6.639
5 Jan
SE +/- 0.064, N = 3
5.911
2
4
6
8
10
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 13.0
Scaling Factor: 1000 - Clients: 50 - Mode: Read Only - Average Latency
ms, Fewer Is Better
6 Jan
SE +/- 0.003, N = 12
0.180
5 Jan
SE +/- 0.003, N = 12
0.183
0.0412
0.0824
0.1236
0.1648
0.206
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 Write - Average Latency
ms, Fewer Is Better
6 Jan
SE +/- 0.18, N = 14
10.89
5 Jan
SE +/- 0.16, N = 3
10.67
3
6
9
12
15
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 Write - Average Latency
ms, Fewer Is Better
6 Jan
SE +/- 0.44, N = 3
27.64
5 Jan
SE +/- 0.47, N = 3
27.26
7
14
21
28
35
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm


PostgreSQL pgbench 13.0
Scaling Factor: 1000 - Clients: 100 - Mode: Read Only - Average Latency
ms, Fewer Is Better
6 Jan
SE +/- 0.000, N = 3
0.358
5 Jan
SE +/- 0.001, N = 3
0.358
0.0806
0.1612
0.2418
0.3224
0.403
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 13.0
Scaling Factor: 1000 - Clients: 250 - Mode: Read Only - Average Latency
ms, Fewer Is Better
6 Jan
SE +/- 0.002, N = 3
1.083
5 Jan
SE +/- 0.002, N = 3
1.078
0.2437
0.4874
0.7311
0.9748
1.2185
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 Write - Average Latency
ms, Fewer Is Better
6 Jan
SE +/- 0.10, N = 3
11.50
5 Jan
SE +/- 0.01, N = 3
11.20
3
6
9
12
15
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 13.0
Scaling Factor: 1000 - Clients: 100 - Mode: Read Write - Average Latency
ms, Fewer Is Better
6 Jan
SE +/- 0.21, N = 3
19.78
5 Jan
SE +/- 0.23, N = 12
19.76
5
10
15
20
25
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm


PostgreSQL pgbench 13.0
Scaling Factor: 1000 - Clients: 250 - Mode: Read Write - Average Latency
ms, Fewer Is Better
6 Jan
SE +/- 0.11, N = 3
41.27
5 Jan
SE +/- 0.34, N = 3
39.24
9
18
27
36
45
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
Timed Linux Kernel Compilation 5.4
Time To Compile
Seconds, Fewer Is Better
6 Jan
SE +/- 0.70, N = 3
65.42
5 Jan
SE +/- 0.60, N = 3
65.09
15
30
45
60
75
Timed LLVM Compilation 10.0
Time To Compile
Seconds, Fewer Is Better
6 Jan
SE +/- 2.17, N = 3
514.25
5 Jan
SE +/- 4.64, N = 3
518.23
110
220
330
440
550
Hackbench
Count: 1 - Type: Thread
Seconds, Fewer Is Better
6 Jan
SE +/- 0.006, N = 3
2.743
5 Jan
SE +/- 0.003, N = 3
2.752
0.6192
1.2384
1.8576
2.4768
3.096
1. (CC) gcc options: -lpthread

Hackbench

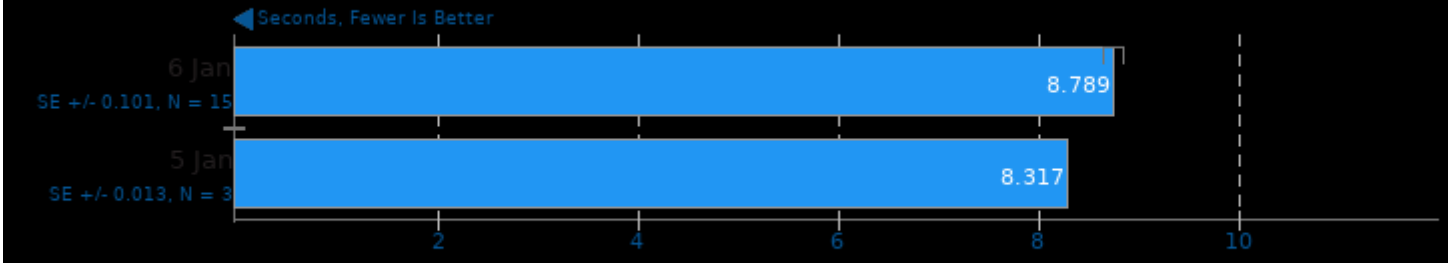
Count: 2 - Type: Thread



1. (CC) gcc options: -lpthread

Hackbench

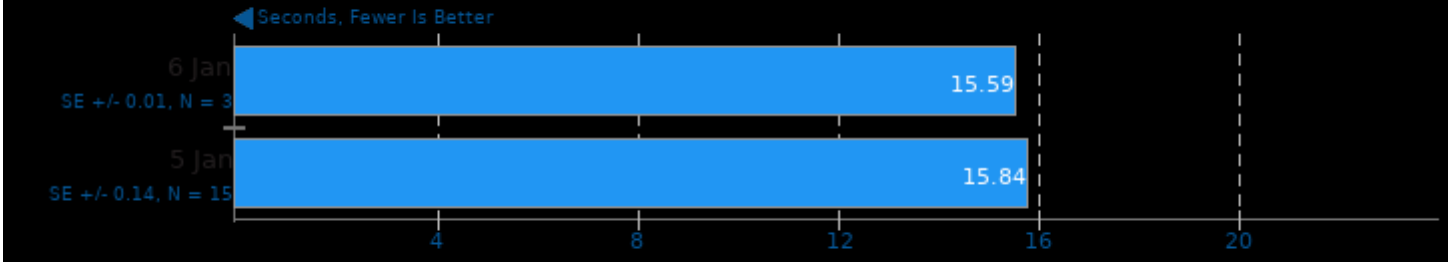
Count: 4 - Type: Thread



1. (CC) gcc options: -lpthread

Hackbench

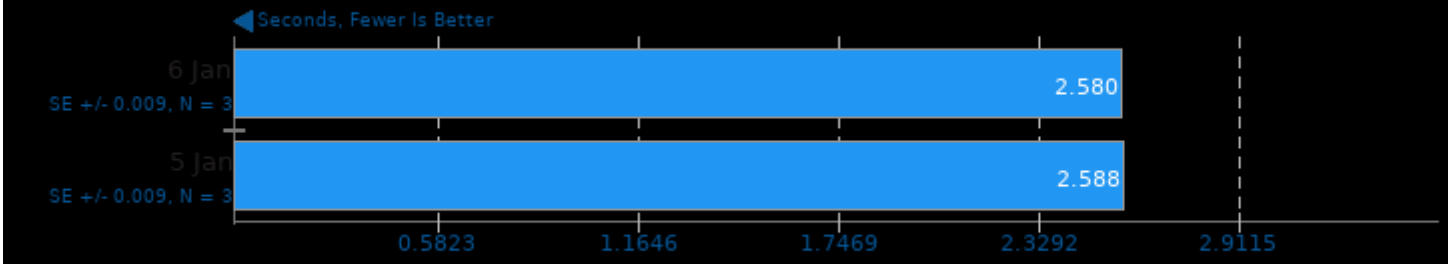
Count: 8 - Type: Thread



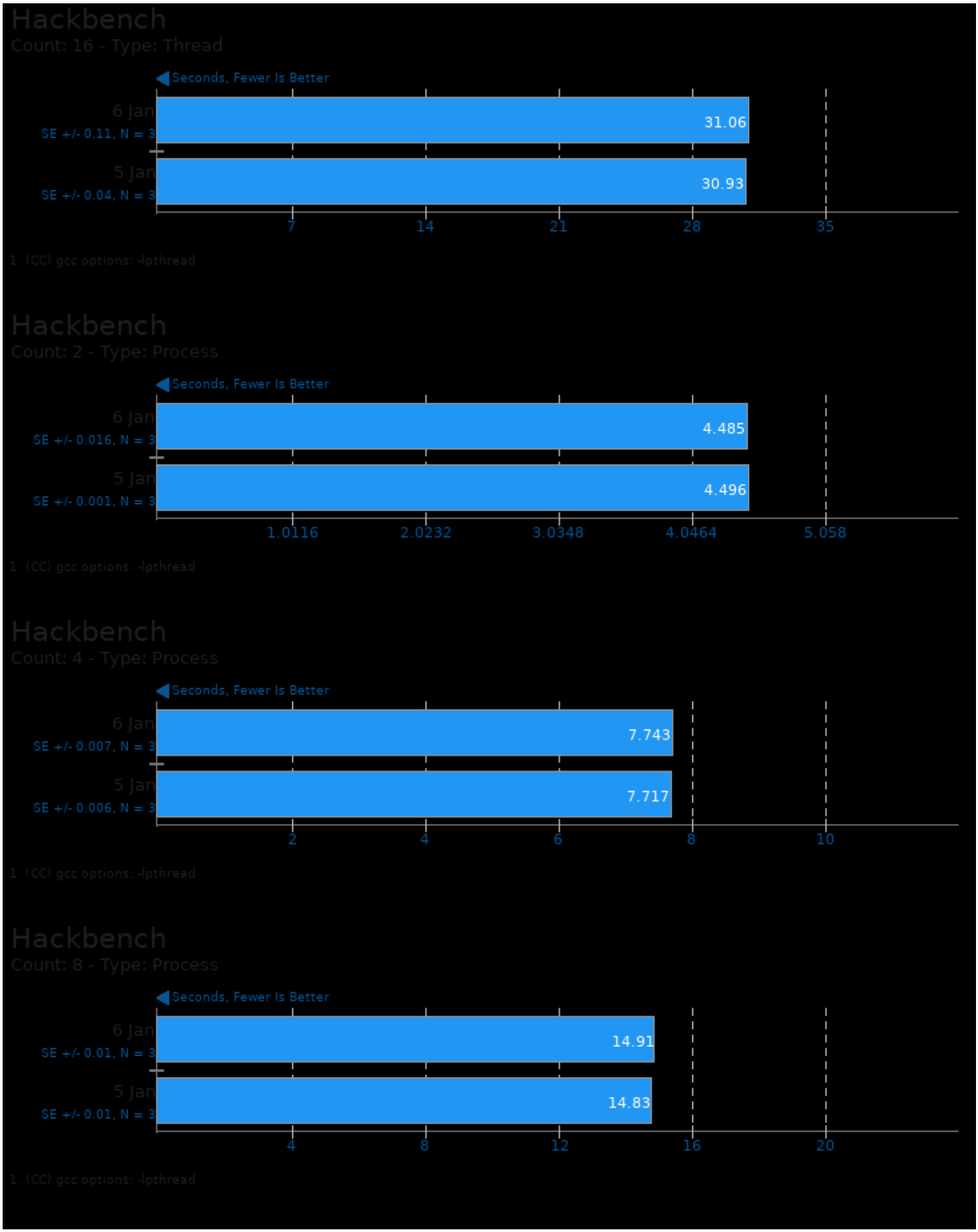
1. (CC) gcc options: -lpthread

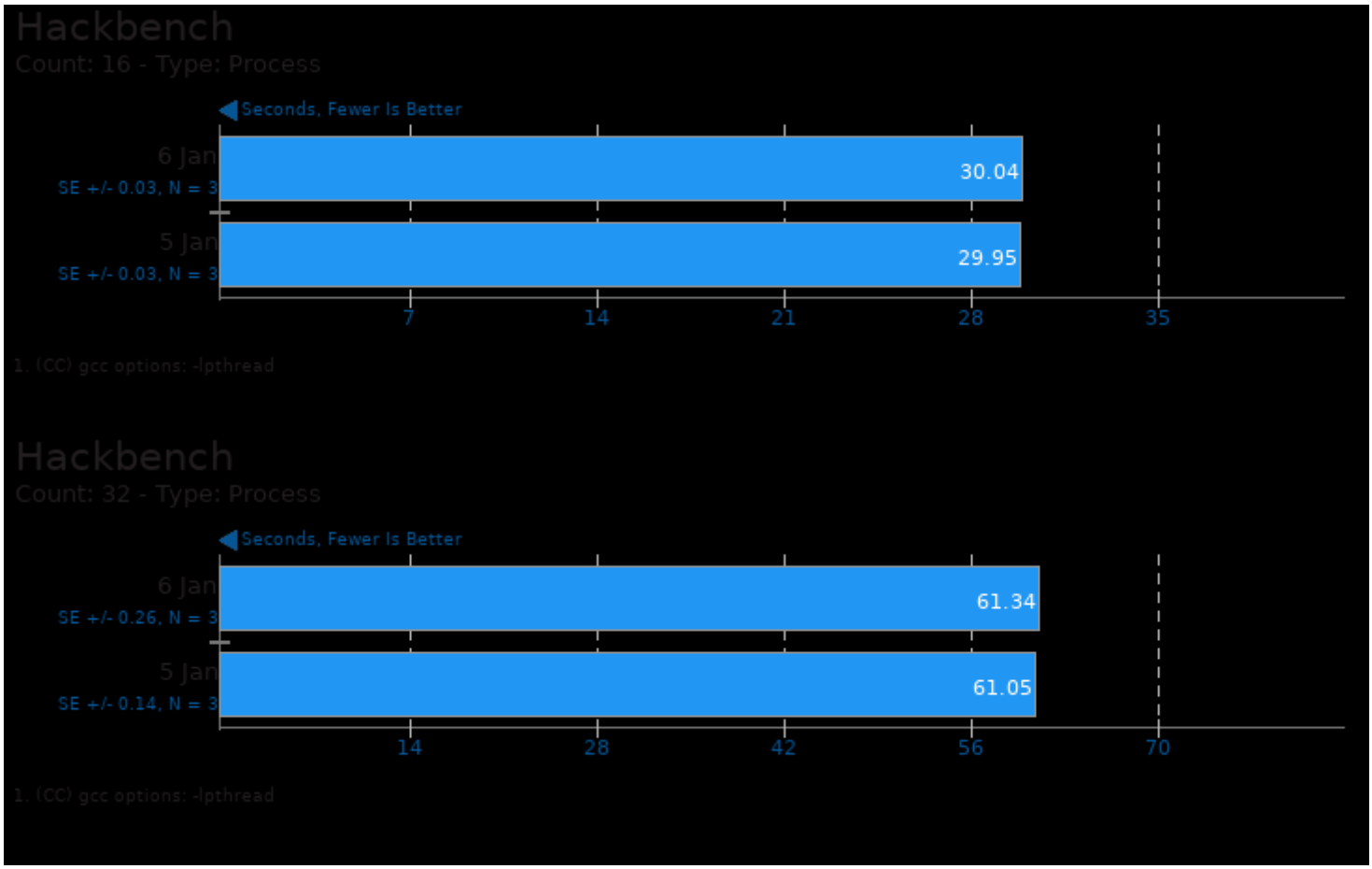
Hackbench

Count: 1 - Type: Process

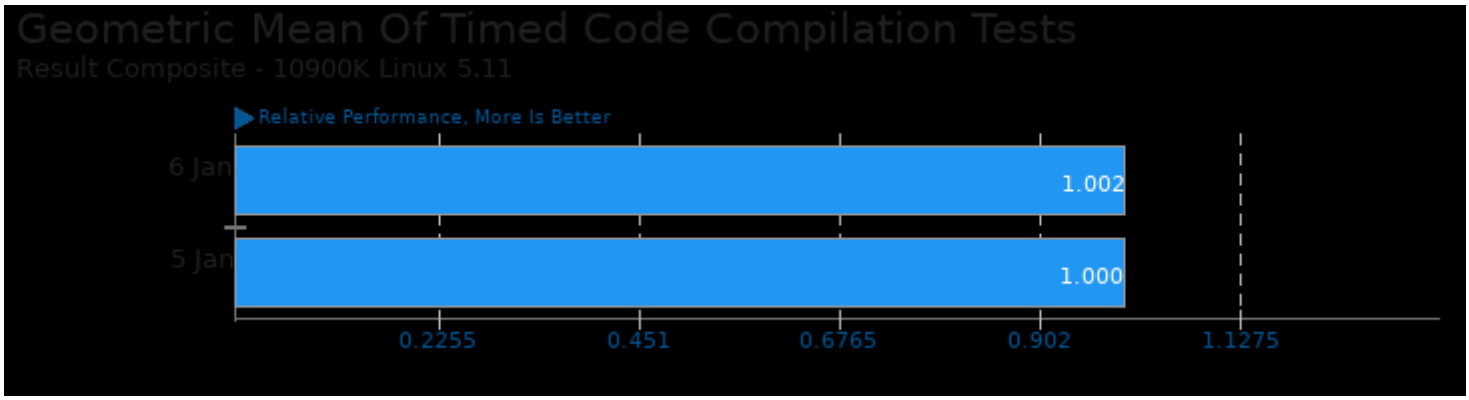


1. (CC) gcc options: -lpthread


Hackbench
Count: 16 - Type: Thread
Seconds, Fewer Is Better
6 Jan
SE +/- 0.11, N = 3
31.06
5 Jan
SE +/- 0.04, N = 3
30.93
7
14
21
28
35
1. (CC) gcc options: -lpthread
Hackbench
Count: 2 - Type: Process
Seconds, Fewer Is Better
6 Jan
SE +/- 0.016, N = 3
4.485
5 Jan
SE +/- 0.001, N = 3
4.496
1.0116
2.0232
3.0348
4.0464
5.058
1. (CC) gcc options: -lpthread
Hackbench
Count: 4 - Type: Process
Seconds, Fewer Is Better
6 Jan
SE +/- 0.007, N = 3
7.743
5 Jan
SE +/- 0.006, N = 3
7.717
2
4
6
8
10
1. (CC) gcc options: -lpthread
Hackbench
Count: 8 - Type: Process
Seconds, Fewer Is Better
6 Jan
SE +/- 0.01, N = 3
14.91
5 Jan
SE +/- 0.01, N = 3
14.83
4
8
12
16
20
1. (CC) gcc options: -lpthread


Hackbench
Count: 16 - Type: Process
Seconds, Fewer Is Better
6 Jan
SE +/- 0.03, N = 3
30.04
5 Jan
SE +/- 0.03, N = 3
29.95
7
14
21
28
35
1. (CC) gcc options: -lpthread
Hackbench
Count: 32 - Type: Process
Seconds, Fewer Is Better
6 Jan
SE +/- 0.26, N = 3
61.34
5 Jan
SE +/- 0.14, N = 3
61.05
14
28
42
56
70
1. (CC) gcc options: -lpthread

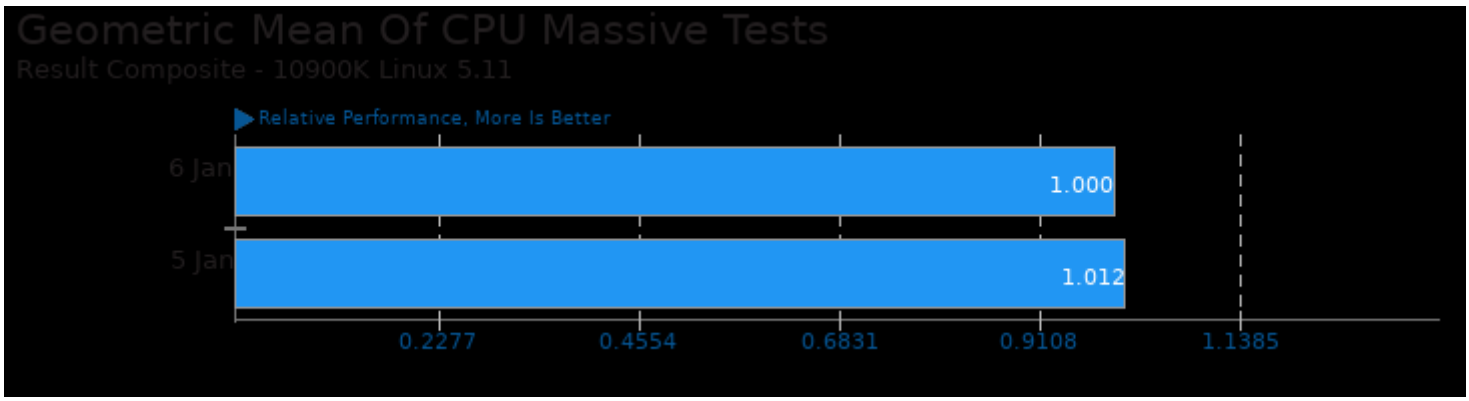
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/build-linux-kernel and pts/build-llvm



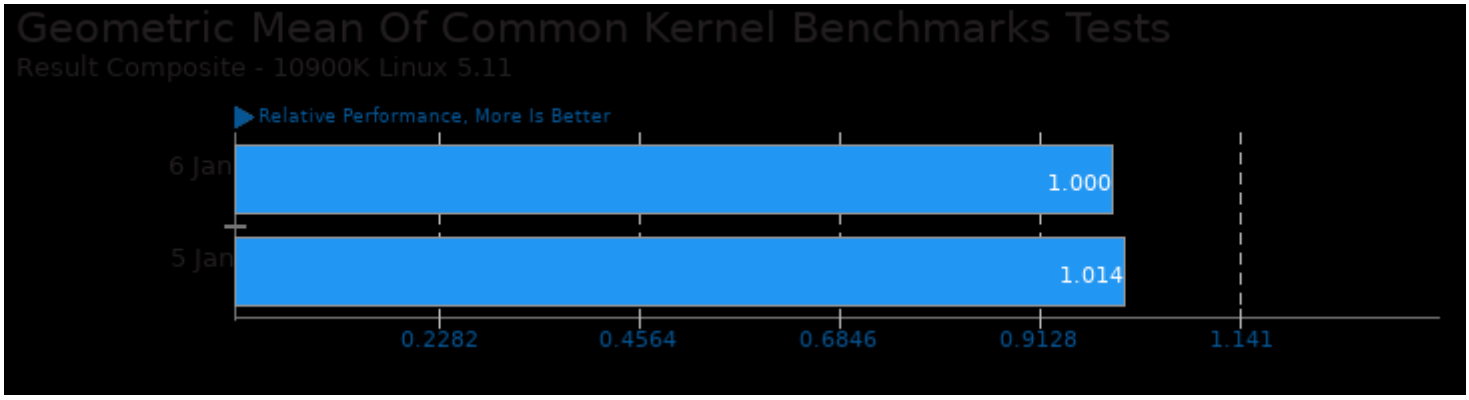
Geometric mean based upon tests: pts/build-llvm, pts/pgbench and pts/keydb



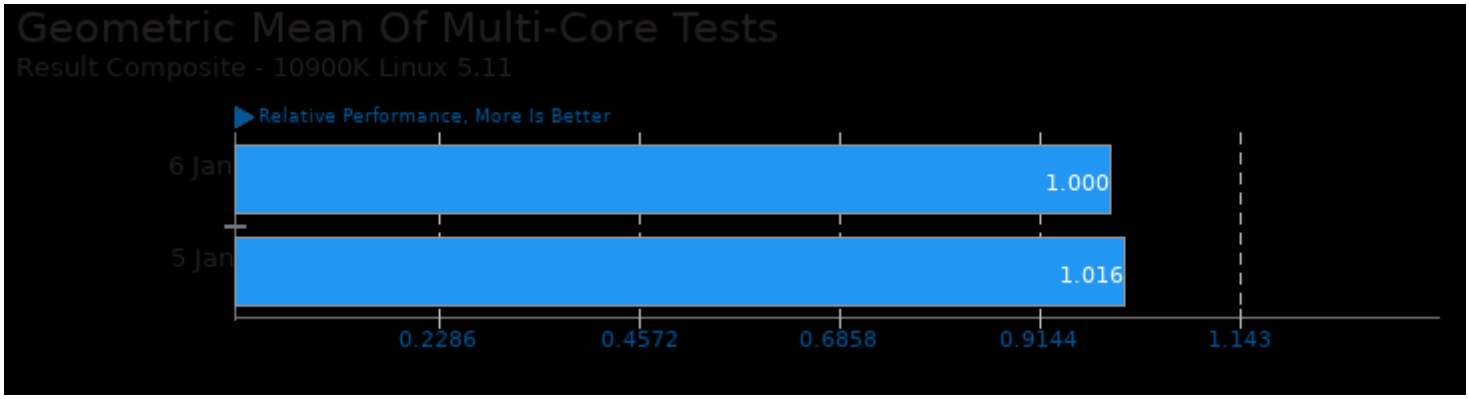
Geometric mean based upon tests: pts/apache-siege, pts/build-llvm, pts/build-linux-kernel, pts/hackbench, pts/pgbench and pts/redis



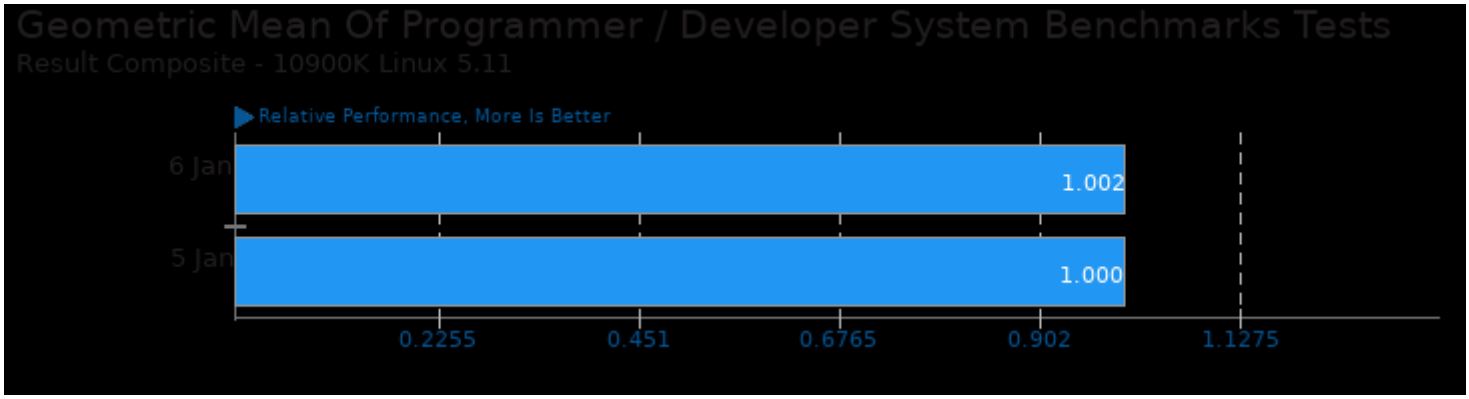
Geometric mean based upon tests: pts/redis, pts/keydb, pts/pgbench and pts/influxdb



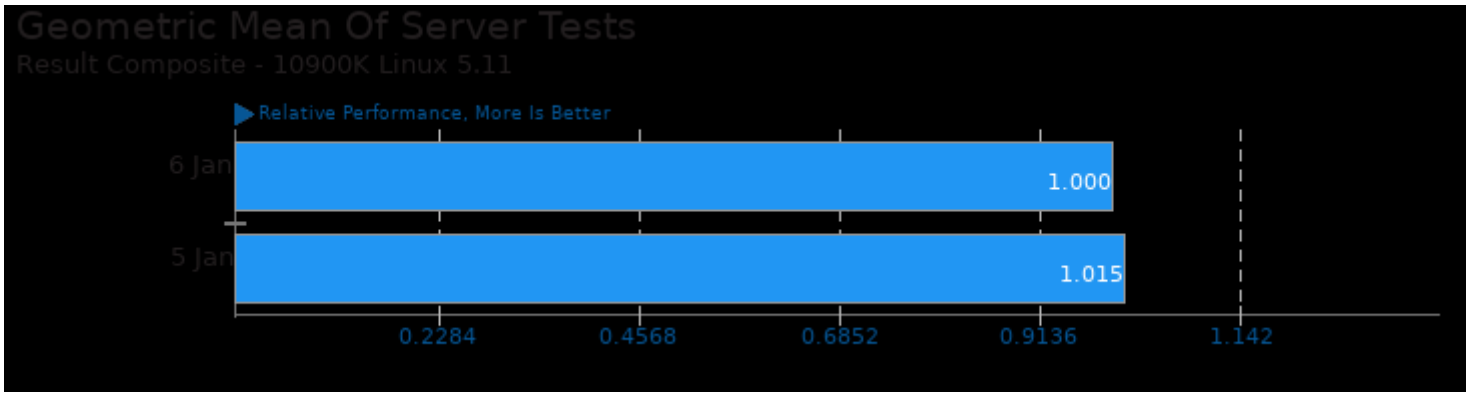
Geometric mean based upon tests: pts/pgbench and pts/hackbench



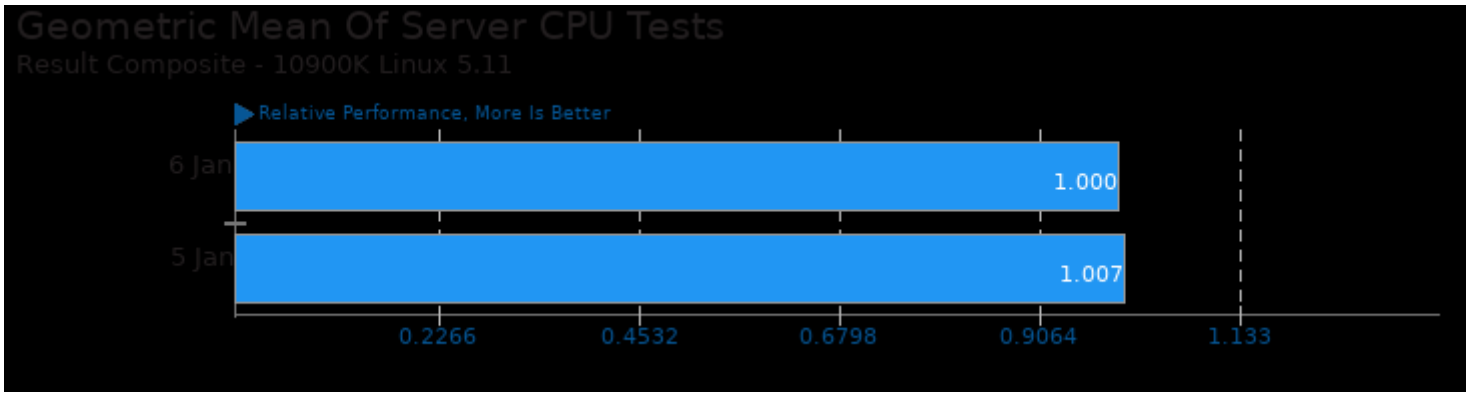
Geometric mean based upon tests: pts/build-linux-kernel, pts/build-llvm and pts/pgbench



Geometric mean based upon tests: pts/build-linux-kernel and pts/build-llvm



Geometric mean based upon tests: pts/apache-siege, pts/pgbench, pts/redis, pts/keydb and pts/influxdb



Geometric mean based upon tests: pts/build-linux-kernel, pts/build-llvm, pts/hackbench, pts/redis and pts/apache-siege

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 09:56.