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5950x stuff

AMD Ryzen 9 5950X 16-Core testing with a ASUS ROG CROSSHAIR VIII HERO (WI-FI) (3801 BIOS) and AMD Radeon RX 6700/6700 XT / 6800M 12GB on Ubuntu 21.10 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 39% of the tests.

Based on the geometric mean of all complete results, the fastest (3) was 1.01x the speed of the slowest (4). 1 was 0.998x the speed of 3, 2 was 0.998x the speed of 1, 4 was 0.994x the speed of 2.

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

PostgreSQL pgbench (Scaling Factor: 1000 - Clients: 1 - Mode: Read Write - Average Latency) at 1.558x
PostgreSQL pgbench (Scaling Factor: 1000 - Clients: 1 - Mode: Read Write) at 1.558x
PostgreSQL pgbench (Scaling Factor: 1000 - Clients: 500 - Mode: Read Write) at 1.409x
PostgreSQL pgbench (Scaling Factor: 1000 - Clients: 500 - Mode: Read Write - Average Latency) at 1.409x
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 1 - Mode: Read Write - Average Latency) at 1.261x
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 1 - Mode: Read Write) at 1.261x
PostgreSQL pgbench (Scaling Factor: 1000 - Clients: 50 - Mode: Read Write) at 1.164x
PostgreSQL pgbench (Scaling Factor: 1000 - Clients: 50 - Mode: Read Write - Average Latency) at 1.164x
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 500 - Mode: Read Write) at 1.157x

PostgreSQL pgbench (Scaling Factor: 1 - Clients: 500 - Mode: Read Write - Average Latency) at 1.157x.

Test Systems:

1

2

3

4

Processor: AMD Ryzen 9 5950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (WI-FI) (3801 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 1000GB Sabrent Rocket 4.0 Plus, Graphics: AMD Radeon RX 6700/6700 XT / 6800M 12GB (2855/1000MHz), Audio: AMD Device ab28, Monitor: ASUS MG28U, Network: Realtek RTL8125 2.5GbE + Intel I211 + Intel Wi-Fi 6 AX200

OS: Ubuntu 21.10, Kernel: 5.15.0-rc2-3reverts (x86_64) 20210922, Desktop: GNOME Shell 40.2, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.1.4 (LLVM 12.0.1), Vulkan: 1.2.168, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --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-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-M6DaQn/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-M6DaQn/gcc-11-11.2.0/debian/tmp-gcn/usr --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-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa201016
Security Notes: itlb_multihit: Not affected + 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 Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	1	2	3	4
PostgreSQL pgbench - 1000 - 500 - Read Write - Average Latency (ms)	**58.092**		**41.218**	
Normalized	70.95%		100%	
PostgreSQL pgbench - 1000 - 500 - Read Write (TPS)	**8607**		**12131**	
Normalized	70.95%		100%	
PostgreSQL pgbench - 1000 - 250 - Read Write - Average Latency (ms)	**19.147**		**18.705**	
Normalized	97.69%		100%	

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PostgreSQL pgbench - 1000 - 250 - Read Write (TPS)	13057	13365	
Normalized	97.7%	100%	
PostgreSQL pgbench - 1000 - 100 - Read Write - Average Latency (ms)	11.195	12.486	
Normalized	100%	89.66%	
PostgreSQL pgbench - 1000 - 100 - Read Write (TPS)	8932	8009	
Normalized	100%	89.67%	
PostgreSQL pgbench - 1000 - 500 - Read Only - Average Latency (ms)	1.222	1.161	
Normalized	95.01%	100%	
PostgreSQL pgbench - 1000 - 500 - Read Only (TPS)	409253	430741	
Normalized	95.01%	100%	
PostgreSQL pgbench - 1000 - 50 - Read Only - Average Latency (ms)	0.1	0.1	
PostgreSQL pgbench - 1000 - 50 - Read Only (TPS)	498592	498203	
Normalized	100%	99.92%	
PostgreSQL pgbench - 1000 - 50 - Read Write - Average Latency (ms)	7.296	8.496	
Normalized	100%	85.88%	
PostgreSQL pgbench - 1000 - 50 - Read Write (TPS)	6853	5885	
Normalized	100%	85.87%	
PostgreSQL pgbench - 1000 - 250 - Read Only - Average Latency (ms)	0.47	0.468	
Normalized	99.57%	100%	
PostgreSQL pgbench - 1000 - 250 - Read Only (TPS)	531597	534493	
Normalized	99.46%	100%	
PostgreSQL pgbench - 1000 - 100 - Read Only - Average Latency (ms)	0.192	0.192	
PostgreSQL pgbench - 1000 - 100 - Read Only (TPS)	521872	520975	
Normalized	100%	99.83%	
PostgreSQL pgbench - 1000 - 1 - Read Write - Average Latency (ms)	0.847	1.32	
Normalized	100%	64.17%	
PostgreSQL pgbench - 1000 - 1 - Read Write (TPS)	1181	758	
Normalized	100%	64.18%	
PostgreSQL pgbench - 1000 - 1 - Read Only - Average Latency (ms)	0.031	0.031	0.03
Normalized	96.77%	96.77%	100%
PostgreSQL pgbench - 1000 - 1 - Read Only (TPS)	32332	32244	33127
Normalized	97.6%	97.33%	100%

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PostgreSQL pgbench - 100 - 500 - Read Write - Average Latency (ms)	31.599		34.366	
Normalized	100%		91.95%	
PostgreSQL pgbench - 100 - 500 - Read Write (TPS)	15823		14549	
Normalized	100%		91.95%	
PostgreSQL pgbench - 100 - 250 - Read Write - Average Latency (ms)	15.492		16.021	
Normalized	100%		96.7%	
PostgreSQL pgbench - 100 - 250 - Read Write (TPS)	16137		15604	
Normalized	100%		96.7%	
PostgreSQL pgbench - 100 - 500 - Read Only - Average Latency (ms)	0.866		0.847	
Normalized	97.81%		100%	
PostgreSQL pgbench - 100 - 500 - Read Only (TPS)	577150		590650	
Normalized	97.71%		100%	
PostgreSQL pgbench - 100 - 50 - Read Only - Average Latency (ms)	0.081	0.083	0.08	0.08
Normalized	98.77%	96.39%	100%	100%
PostgreSQL pgbench - 100 - 50 - Read Only (TPS)	618590	605245	626264	622810
Normalized	98.77%	96.64%	100%	99.45%
PostgreSQL pgbench - 100 - 100 - Read Write - Average Latency (ms)	7.081		7.828	
Normalized	100%		90.46%	
PostgreSQL pgbench - 100 - 100 - Read Write (TPS)	14123		12775	
Normalized	100%		90.46%	
PostgreSQL pgbench - 100 - 250 - Read Only - Average Latency (ms)	0.412		0.421	0.41
Normalized	99.51%		97.39%	100%
PostgreSQL pgbench - 100 - 250 - Read Only (TPS)	606064		594216	609564
Normalized	99.43%		97.48%	100%
PostgreSQL pgbench - 100 - 100 - Read Only - Average Latency (ms)	0.163		0.166	0.164
Normalized	100%		98.19%	99.39%
PostgreSQL pgbench - 100 - 100 - Read Only (TPS)	611736		604134	608785
Normalized	100%		98.76%	99.52%
PostgreSQL pgbench - 100 - 1 - Read Only - Average Latency (ms)	0.027	0.026	0.027	0.027
Normalized	96.3%	100%	96.3%	96.3%
PostgreSQL pgbench - 100 - 1 - Read Only (TPS)	37279	38465	37649	37255
Normalized	96.92%	100%	97.88%	96.85%
PostgreSQL pgbench - 100 - 1 - Read Write - Average Latency (ms)	0.701	0.613	0.654	0.675
Normalized	87.45%	100%	93.73%	90.81%

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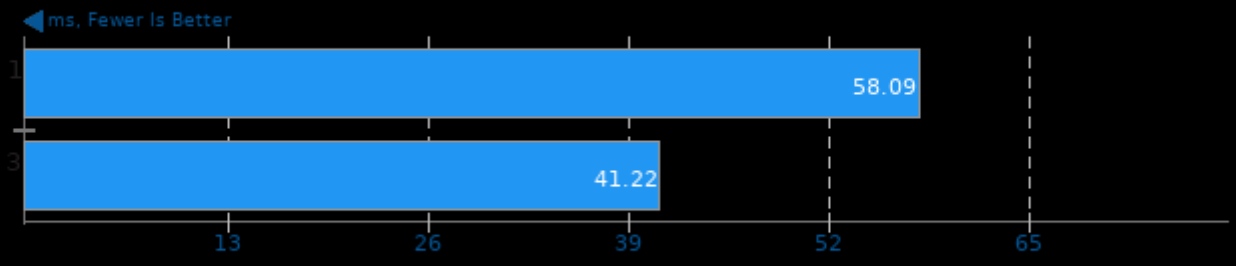
PostgreSQL pgbench - 100 - 1 - Read Write (TPS)	1427	1632	1530	1482
Normalized	87.44%	100%	93.75%	90.81%
PostgreSQL pgbench - 100 - 50 - Read Write - Average Latency (ms)	4.327		4.624	4.492
Normalized	100%		93.58%	96.33%
PostgreSQL pgbench - 100 - 50 - Read Write (TPS)	11556		10812	11131
Normalized	100%		93.56%	96.32%
PostgreSQL pgbench - 1 - 500 - Read Write - Average Latency (ms)	827.82	749.084	805.484	715.576
Normalized	86.44%	95.53%	88.84%	100%
PostgreSQL pgbench - 1 - 500 - Read Write (TPS)	604	667	621	699
Normalized	86.41%	95.42%	88.84%	100%
PostgreSQL pgbench - 1 - 1 - Read Only - Average Latency (ms)	0.025	0.025	0.025	0.026
Normalized	100%	100%	100%	96.15%
PostgreSQL pgbench - 1 - 1 - Read Only (TPS)	39336	39363	39242	38263
Normalized	99.93%	100%	99.69%	97.21%
PostgreSQL pgbench - 1 - 250 - Read Write - Average Latency (ms)	233.496	243.922	265.19	240.796
Normalized	100%	95.73%	88.05%	96.97%
PostgreSQL pgbench - 1 - 250 - Read Write (TPS)	1071	1025	943	1038
Normalized	100%	95.7%	88.05%	96.92%
PostgreSQL pgbench - 1 - 50 - Read Write - Average Latency (ms)	26.832	27.619	27.539	26.023
Normalized	96.98%	94.22%	94.5%	100%
PostgreSQL pgbench - 1 - 50 - Read Write (TPS)	1863	1810	1816	1921
Normalized	96.98%	94.22%	94.53%	100%
PostgreSQL pgbench - 1 - 50 - Read Only - Average Latency (ms)	0.078	0.078	0.077	0.082
Normalized	98.72%	98.72%	100%	93.9%
PostgreSQL pgbench - 1 - 50 - Read Only (TPS)	638181	644944	646349	610260
Normalized	98.74%	99.78%	100%	94.42%
PostgreSQL pgbench - 1 - 100 - Read Write - Average Latency (ms)	65.547	64.719	63.242	63.857
Normalized	96.48%	97.72%	100%	99.04%
PostgreSQL pgbench - 1 - 100 - Read Write (TPS)	1526	1545	1581	1566
Normalized	96.52%	97.72%	100%	99.05%
PostgreSQL pgbench - 1 - 1 - Read Write - Average Latency (ms)	0.558	0.7	0.555	0.68
Normalized	99.46%	79.29%	100%	81.62%
PostgreSQL pgbench - 1 - 1 - Read Write (TPS)	1791	1429	1802	1471
Normalized	99.39%	79.3%	100%	81.63%

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PostgreSQL pgbench - 1 - 500 - Read Only - Average Latency (ms)	**0.811**	0.812	0.816	**0.85**
Normalized	100%	99.88%	99.39%	95.41%
PostgreSQL pgbench - 1 - 500 - Read Only (TPS)	**616858**	615516	612873	**588405**
Normalized	100%	99.78%	99.35%	95.39%
PostgreSQL pgbench - 1 - 250 - Read Only - Average Latency (ms)	0.4	0.401	**0.398**	**0.413**
Normalized	99.5%	99.25%	100%	96.37%
PostgreSQL pgbench - 1 - 250 - Read Only (TPS)	624660	623141	**628158**	**605252**
Normalized	99.44%	99.2%	100%	96.35%
PostgreSQL pgbench - 1 - 100 - Read Only - Average Latency (ms)	**0.16**	0.162	**0.16**	**0.165**
Normalized	100%	98.77%	100%	96.97%
PostgreSQL pgbench - 1 - 100 - Read Only (TPS)	**625858**	616626	625223	**605358**
Normalized	100%	98.52%	99.9%	96.72%
Cpuminer-Opt - Q.S.2.P (kH/s)	**156350**	155610	156200	**149300**
Normalized	100%	99.53%	99.9%	95.49%
Cpuminer-Opt - Garlicoin (kH/s)	**4234**	**4266**	4243	4261
Normalized	99.25%	100%	99.46%	99.88%
Cpuminer-Opt - Ringcoin (kH/s)	**3684**	3749	3730	**3774**
Normalized	97.61%	99.33%	98.83%	100%
Cpuminer-Opt - Blake-2 S (kH/s)	764650	**765330**	763440	**760840**
Normalized	99.91%	100%	99.75%	99.41%
Cpuminer-Opt - LBC, LBRY Credits (kH/s)	49680	**49020**	**50660**	49580
Normalized	98.07%	96.76%	100%	97.87%
Cpuminer-Opt - Myriad-Groestl (kH/s)	**18640**	18720	18700	**18740**
Normalized	99.47%	99.89%	99.79%	100%
Cpuminer-Opt - T.S.2.O (kH/s)	368220	370710	**367290**	**371010**
Normalized	99.25%	99.92%	99%	100%
Cpuminer-Opt - Skeincoin (kH/s)	**154870**	156080	156350	**157010**
Normalized	98.64%	99.41%	99.58%	100%
Cpuminer-Opt - x25x (kH/s)	588.53	**581.81**	589.67	**590.98**
Normalized	99.59%	98.45%	99.78%	100%
Cpuminer-Opt - Deepcoin (kH/s)	17130	17070	**17140**	**17060**
Normalized	99.94%	99.59%	100%	99.53%
Cpuminer-Opt - Magi (kH/s)	894.28	901.73	**882.86**	**902.81**
Normalized	99.06%	99.88%	97.79%	100%

PostgreSQL pgbench 14.0

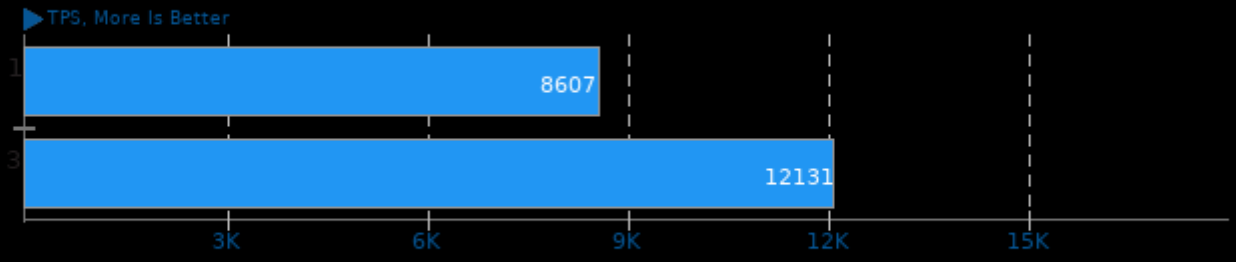
Scaling Factor: 1000 - Clients: 500 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 14.0

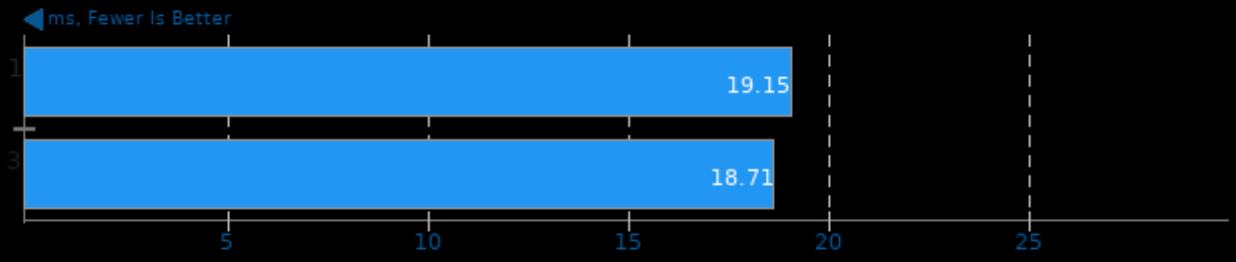
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PostgreSQL pgbench 14.0

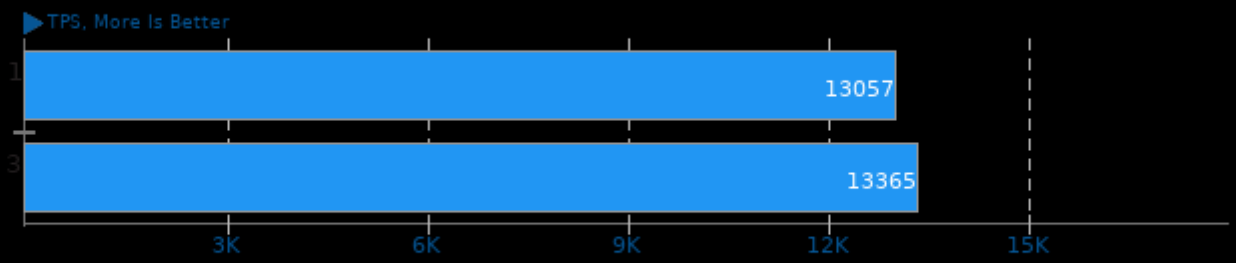
Scaling Factor: 1000 - Clients: 250 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 14.0

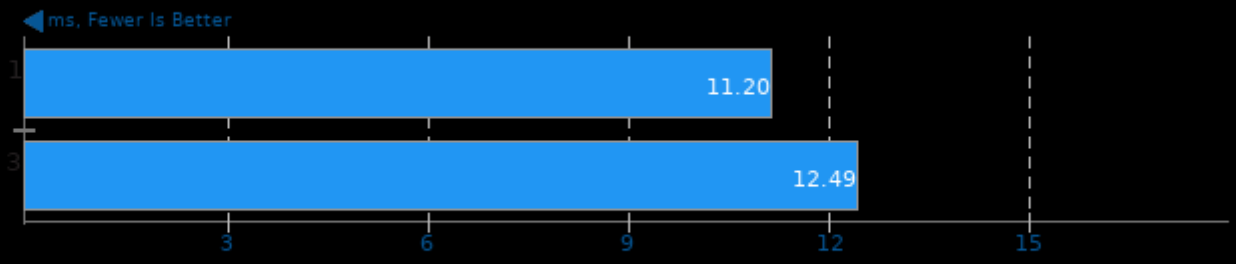
Scaling Factor: 1000 - Clients: 250 - Mode: Read Write



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

PostgreSQL pgbench 14.0

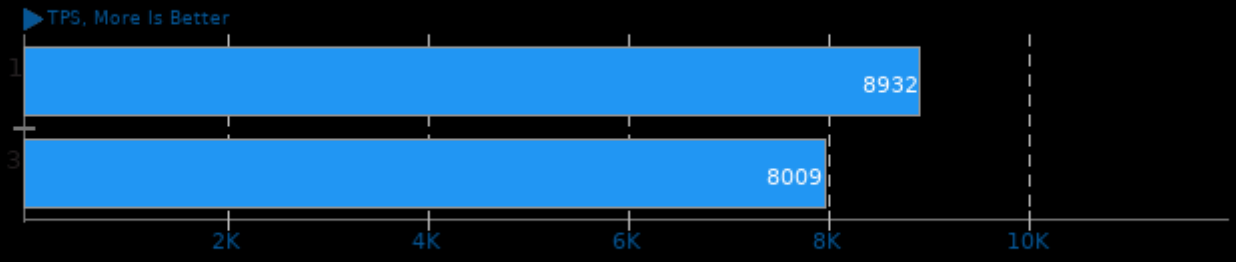
Scaling Factor: 1000 - Clients: 100 - Mode: Read Write - Average Latency



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PostgreSQL pgbench 14.0

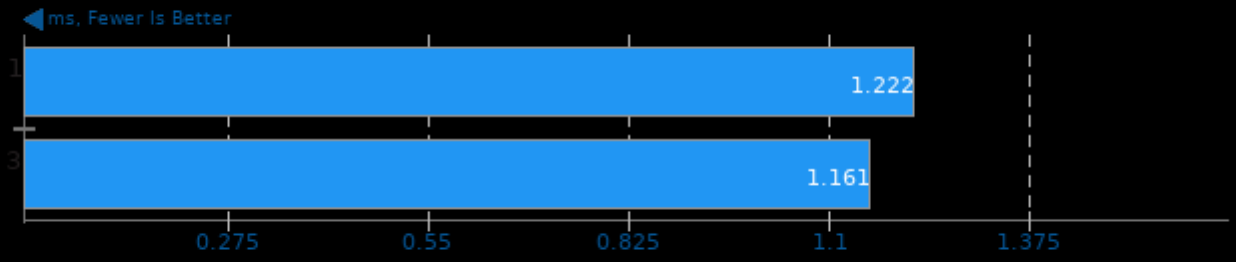
Scaling Factor: 1000 - Clients: 100 - Mode: Read Write



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PostgreSQL pgbench 14.0

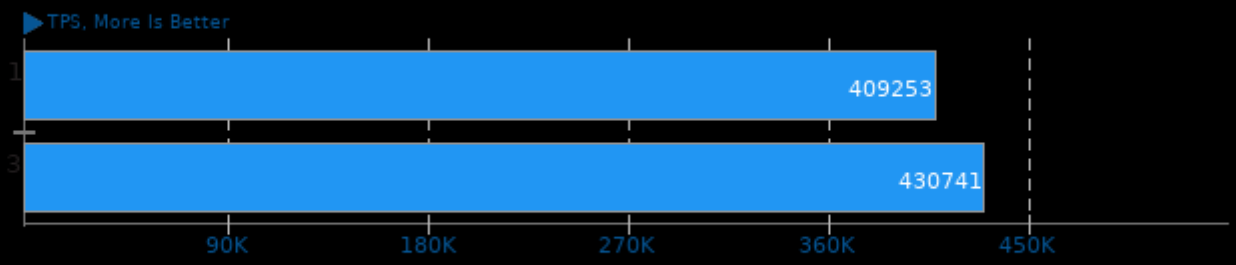
Scaling Factor: 1000 - Clients: 500 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

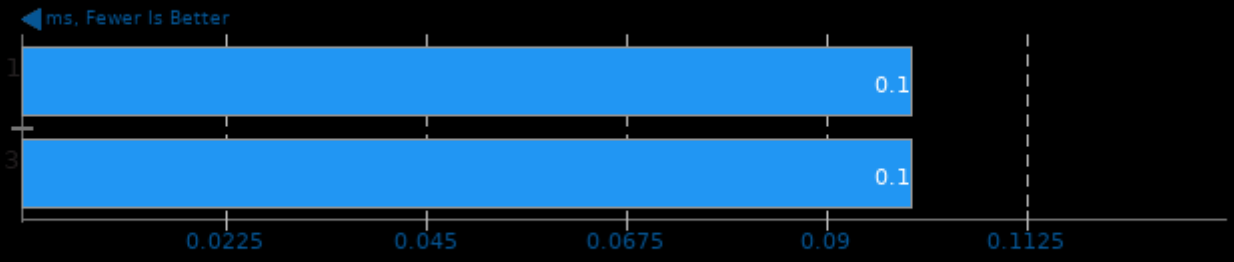
Scaling Factor: 1000 - Clients: 500 - Mode: Read Only



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PostgreSQL pgbench 14.0

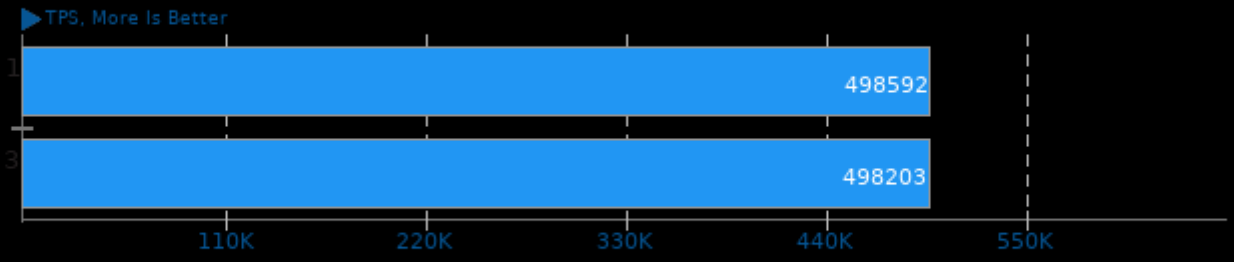
Scaling Factor: 1000 - Clients: 50 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

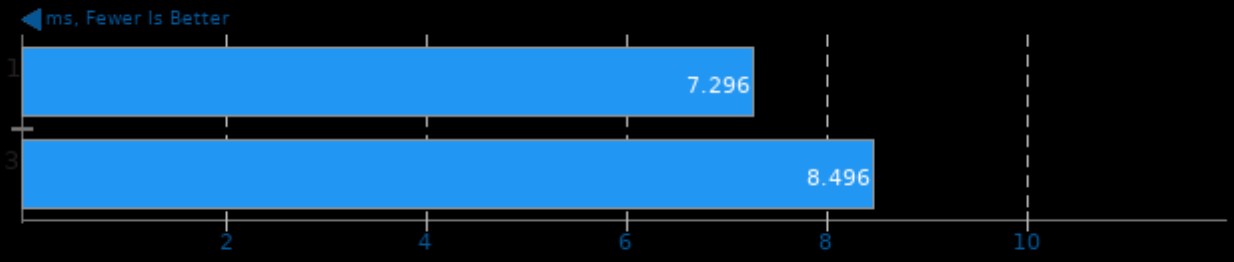
Scaling Factor: 1000 - Clients: 50 - Mode: Read Only



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PostgreSQL pgbench 14.0

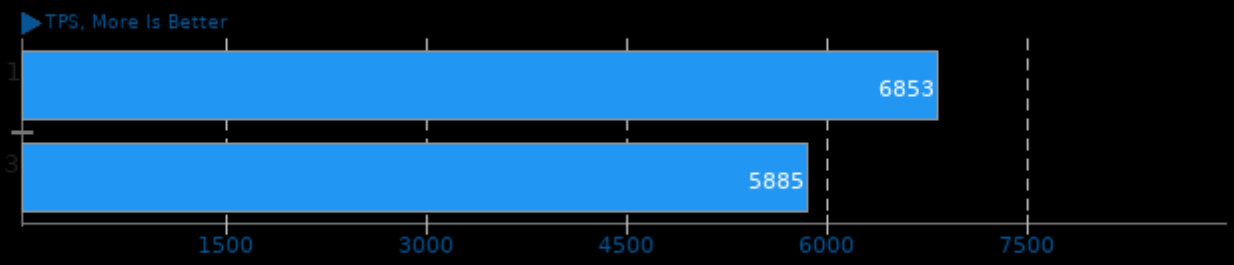
Scaling Factor: 1000 - Clients: 50 - Mode: Read Write - Average Latency



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PostgreSQL pgbench 14.0

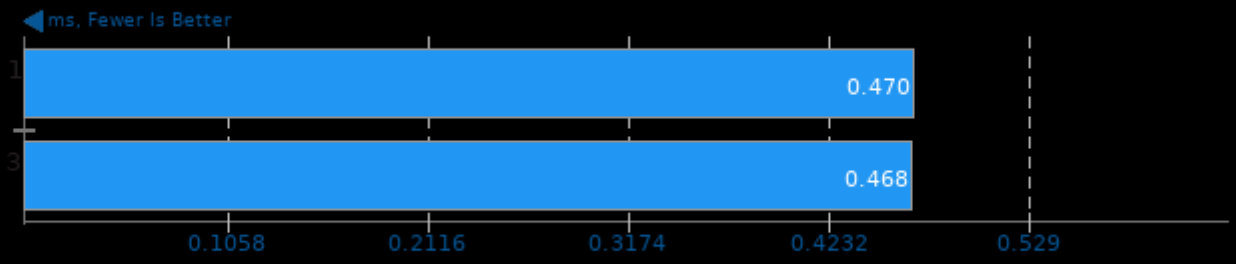
Scaling Factor: 1000 - Clients: 50 - Mode: Read Write



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PostgreSQL pgbench 14.0

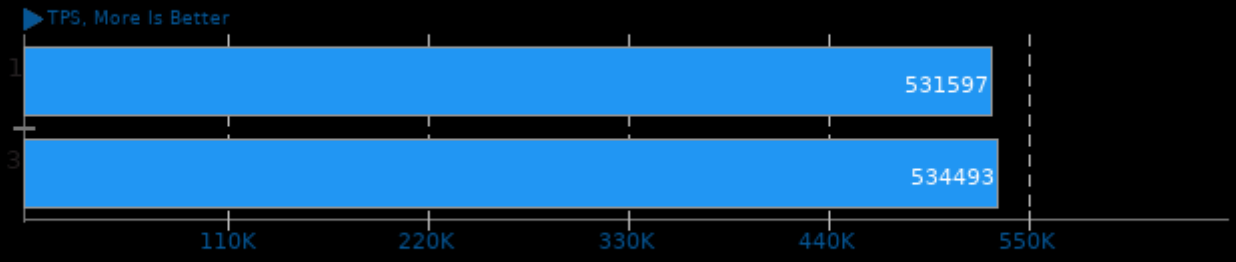
Scaling Factor: 1000 - Clients: 250 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

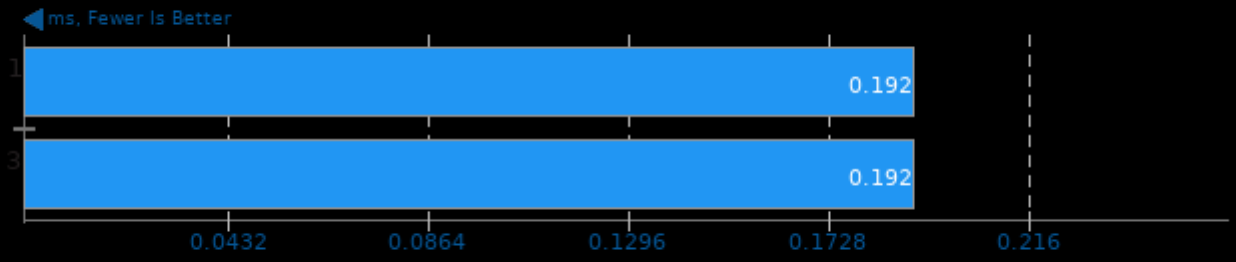
Scaling Factor: 1000 - Clients: 250 - Mode: Read Only



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

PostgreSQL pgbench 14.0

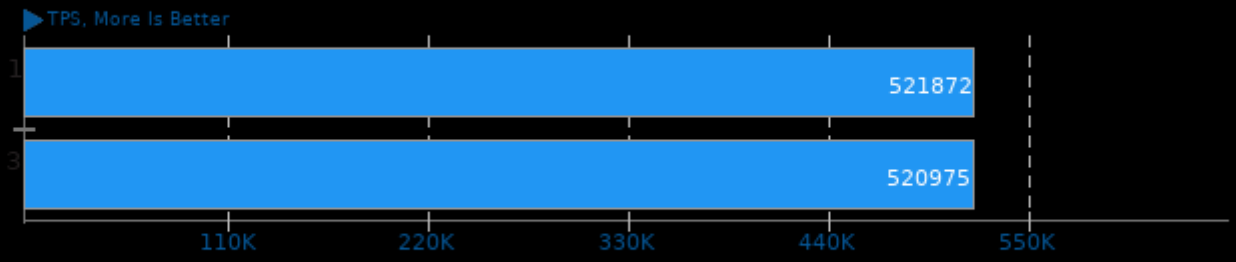
Scaling Factor: 1000 - Clients: 100 - Mode: Read Only - Average Latency



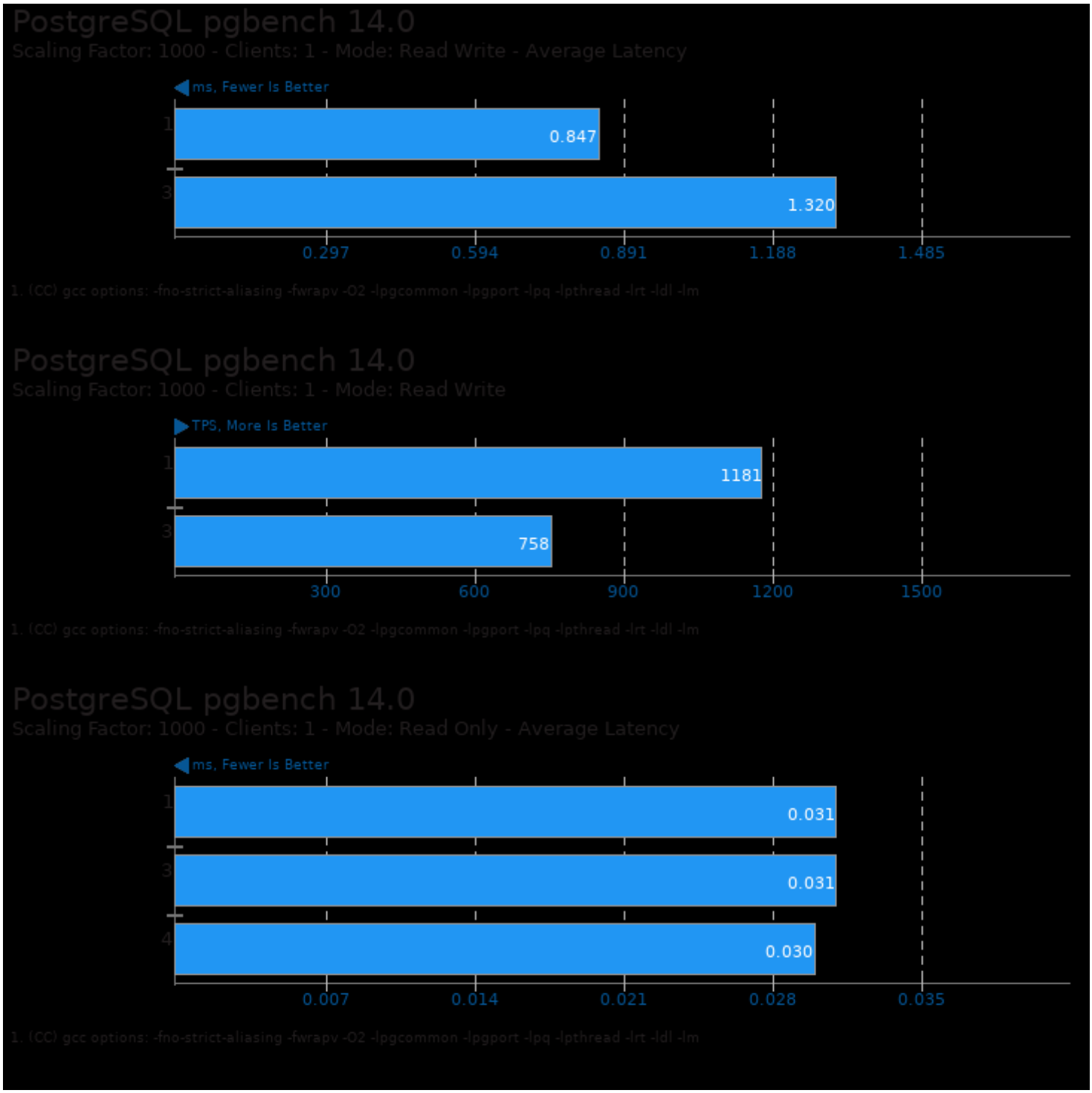
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

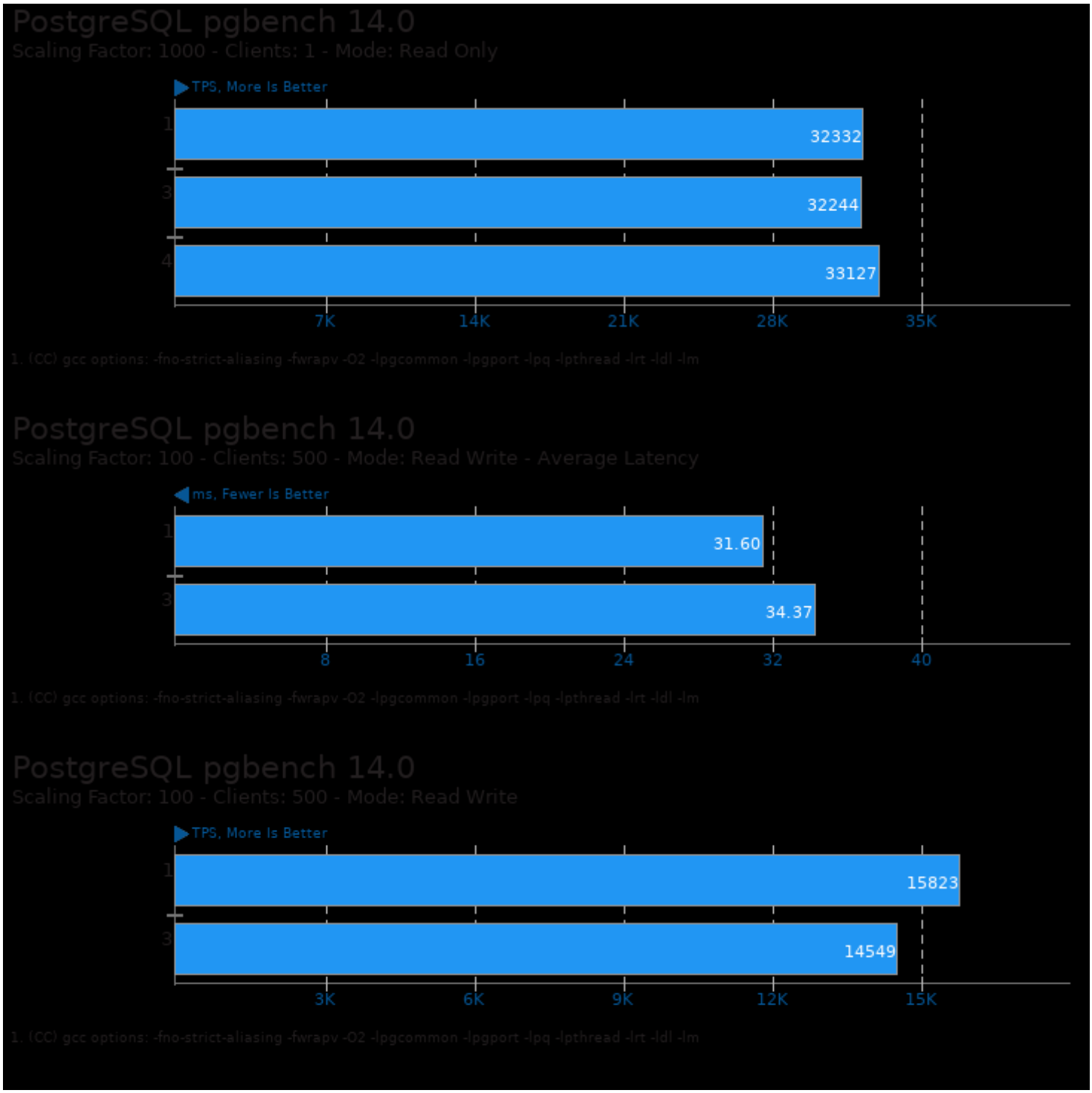
PostgreSQL pgbench 14.0

Scaling Factor: 1000 - Clients: 100 - Mode: Read Only



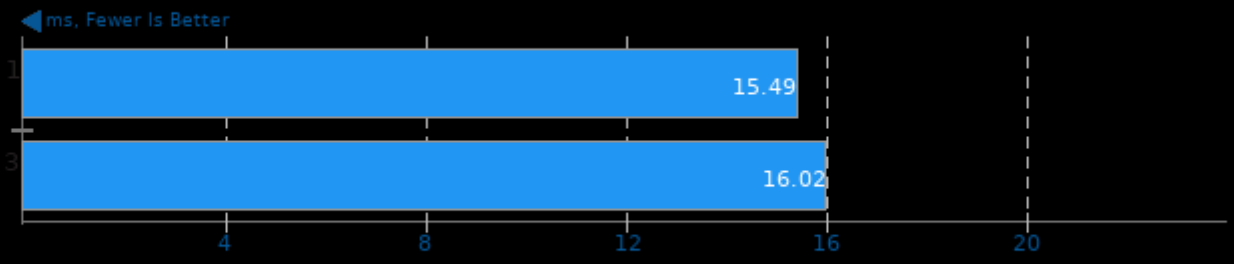
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm


PostgreSQL pgbench 14.0
Scaling Factor: 1000 - Clients: 1 - Mode: Read Write - Average Latency
ms, Fewer Is Better
1
0.847
3
1.320
0.297
0.594
0.891
1.188
1.485
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1000 - Clients: 1 - Mode: Read Write
TPS, More Is Better
1
1181
3
758
300
600
900
1200
1500
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1000 - Clients: 1 - Mode: Read Only - Average Latency
ms, Fewer Is Better
1
0.031
3
0.031
4
0.030
0.007
0.014
0.021
0.028
0.035
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm


PostgreSQL pgbench 14.0
Scaling Factor: 1000 - Clients: 1 - Mode: Read Only
TPS, More Is Better
1
32332
3
32244
4
33127
7K
14K
21K
28K
35K
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
ms, Fewer Is Better
1
31.60
3
34.37
8
16
24
32
40
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
TPS, More Is Better
1
15823
3
14549
3K
6K
9K
12K
15K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL pgbench 14.0

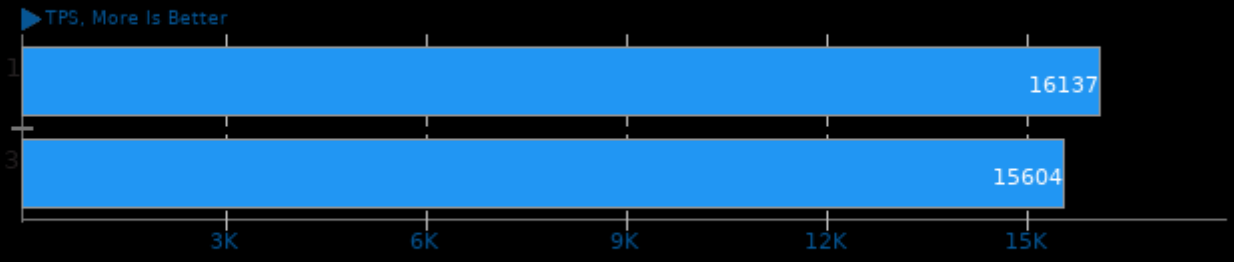
Scaling Factor: 100 - Clients: 250 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 14.0

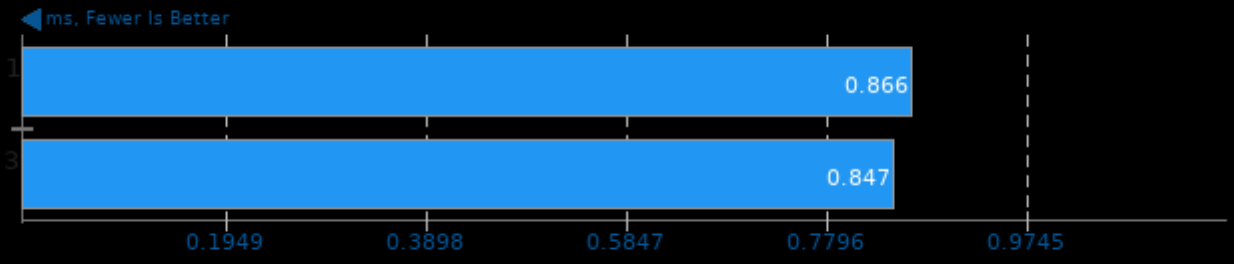
Scaling Factor: 100 - Clients: 250 - Mode: Read Write



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

PostgreSQL pgbench 14.0

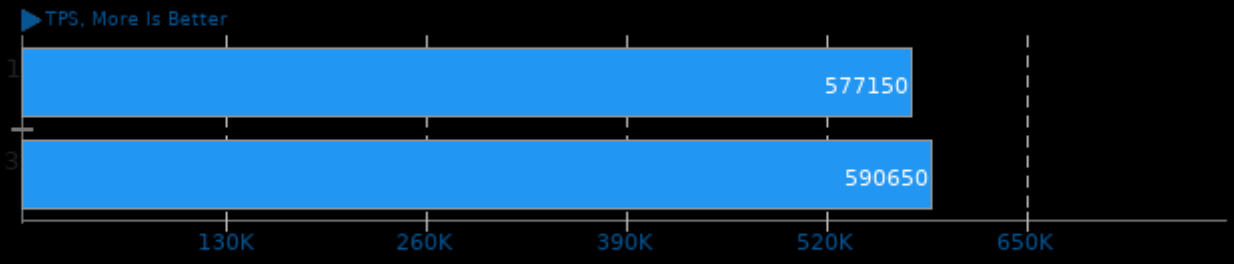
Scaling Factor: 100 - Clients: 500 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

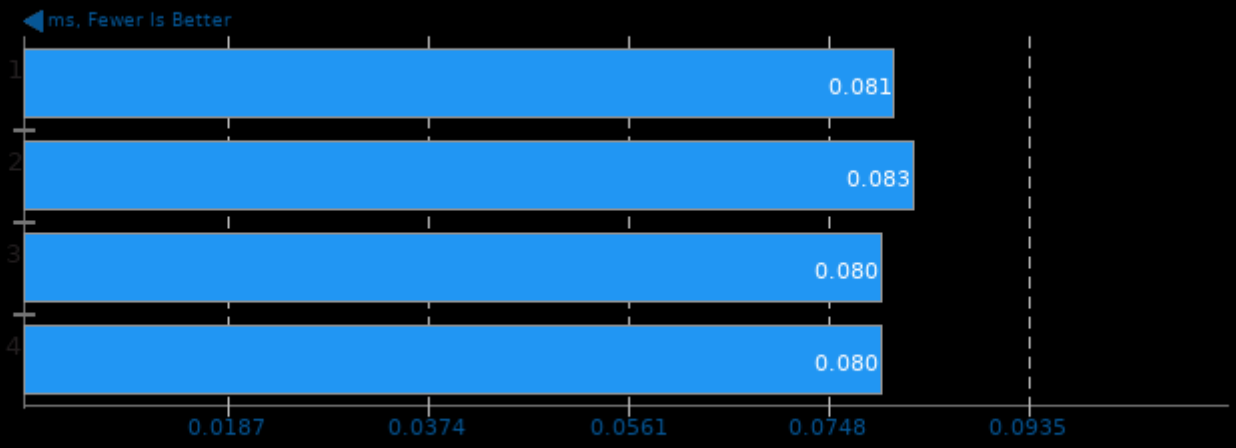
Scaling Factor: 100 - Clients: 500 - Mode: Read Only



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

PostgreSQL pgbench 14.0

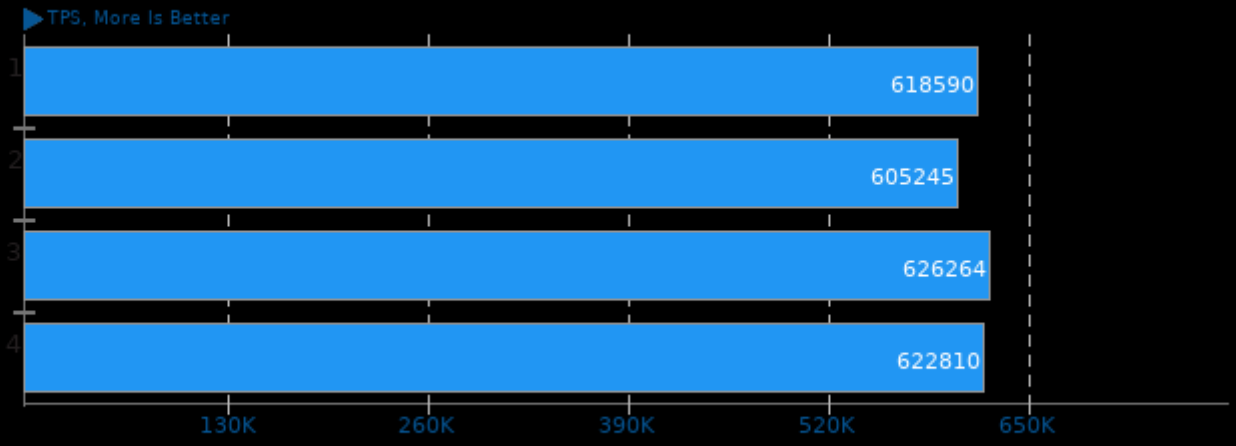
Scaling Factor: 100 - Clients: 50 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

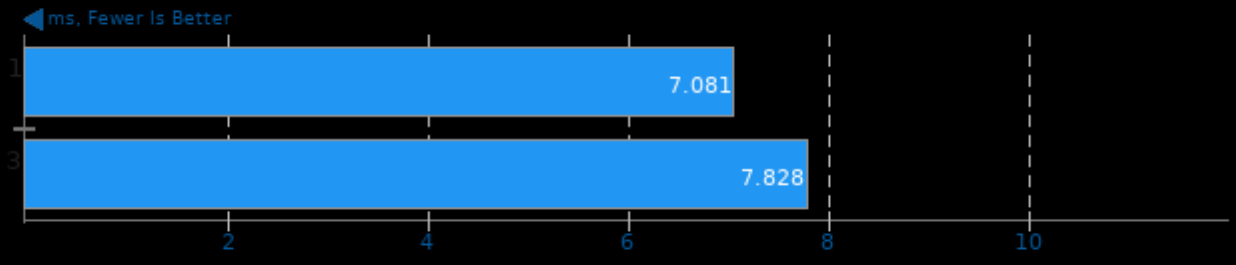
Scaling Factor: 100 - Clients: 50 - Mode: Read Only



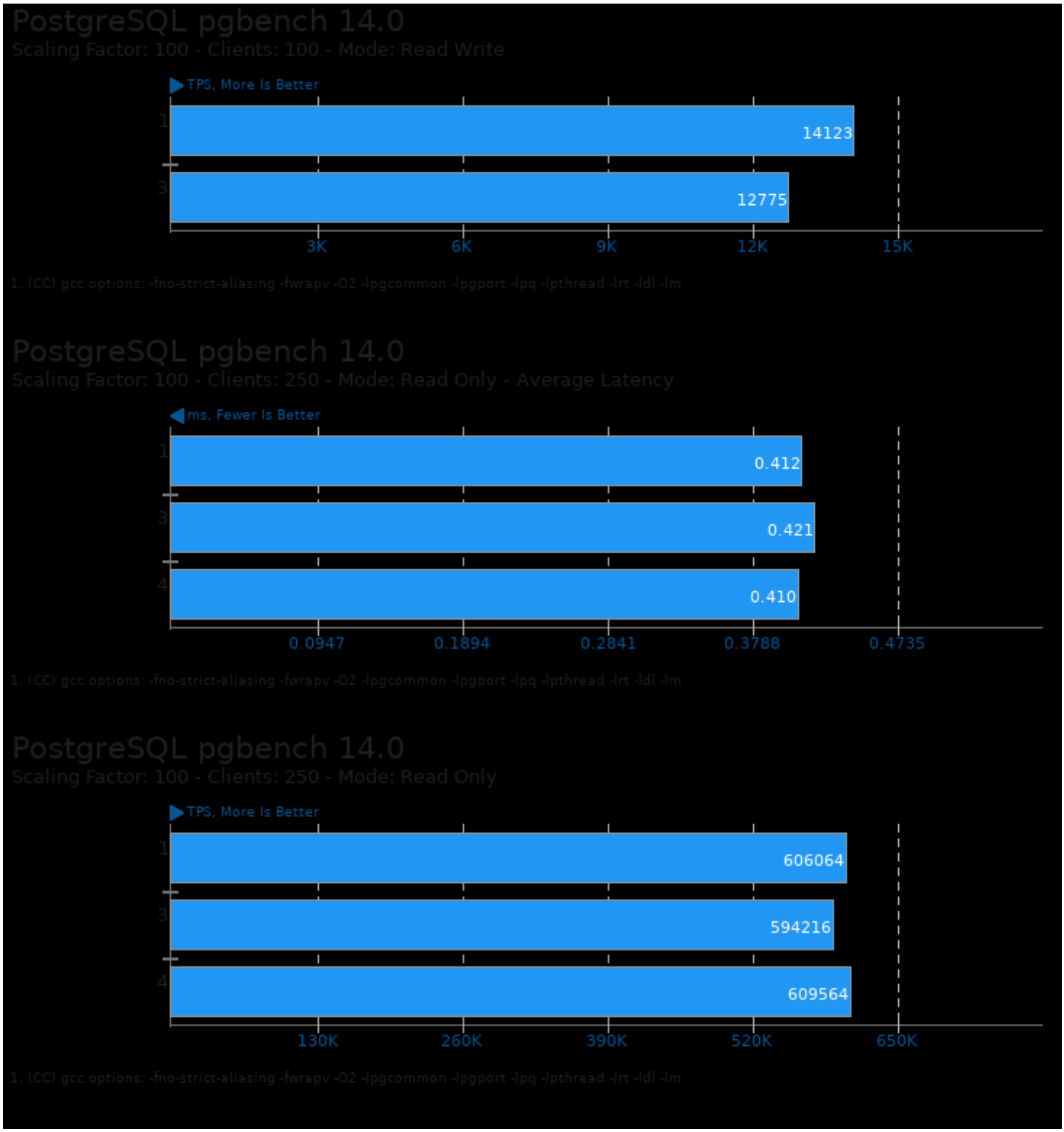
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL pgbench 14.0

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

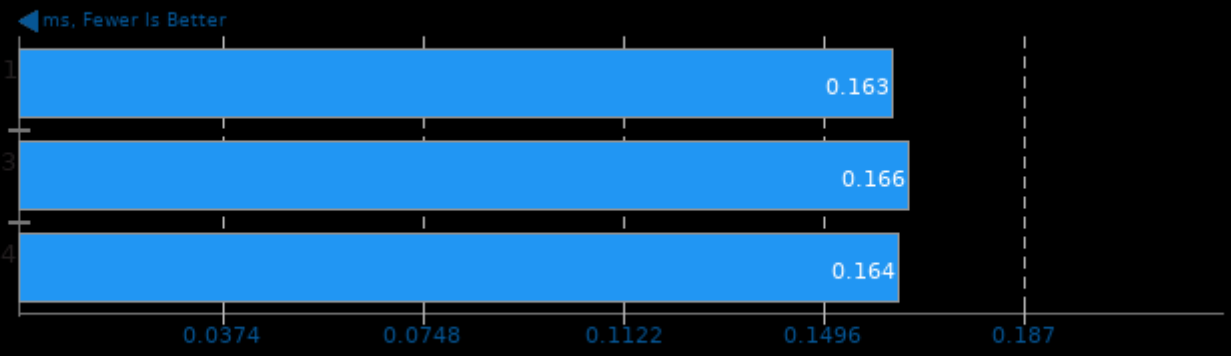


1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm


PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 100 - Mode: Read Write
TPS, More Is Better
1
14123
3
12775
3K
6K
9K
12K
15K
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
ms, Fewer Is Better
1
0.412
3
0.421
4
0.410
0.0947
0.1894
0.2841
0.3788
0.4735
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
TPS, More Is Better
1
606064
3
594216
4
609564
130K
260K
390K
520K
650K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL pgbench 14.0

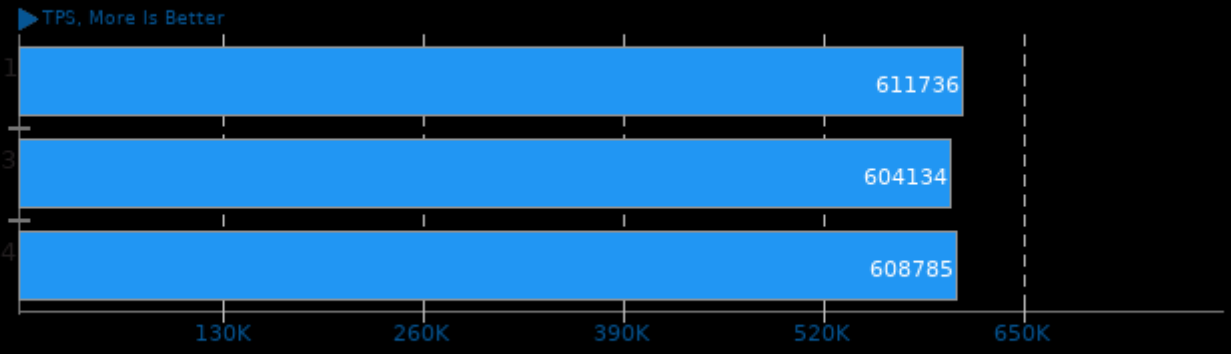
Scaling Factor: 100 - Clients: 100 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

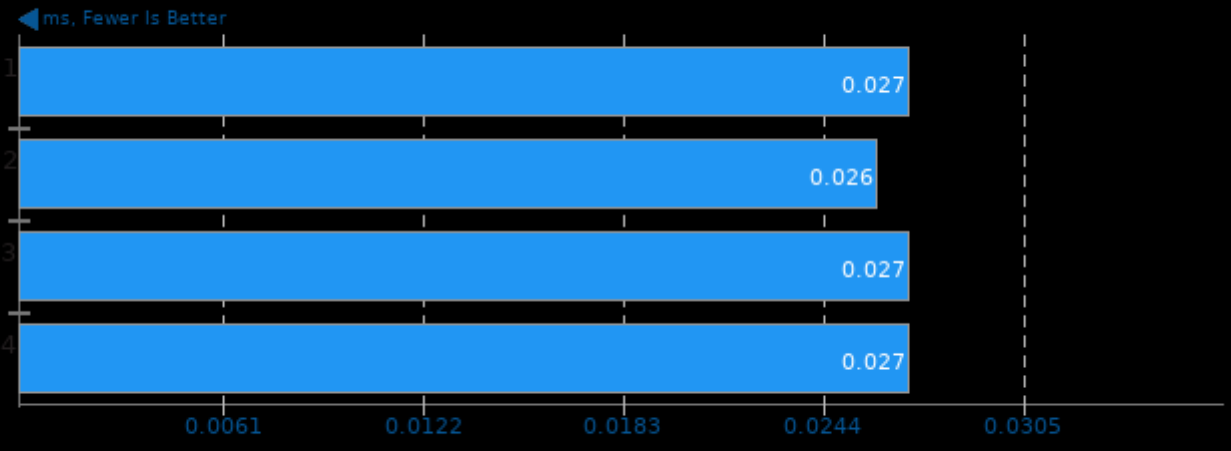
Scaling Factor: 100 - Clients: 100 - Mode: Read Only



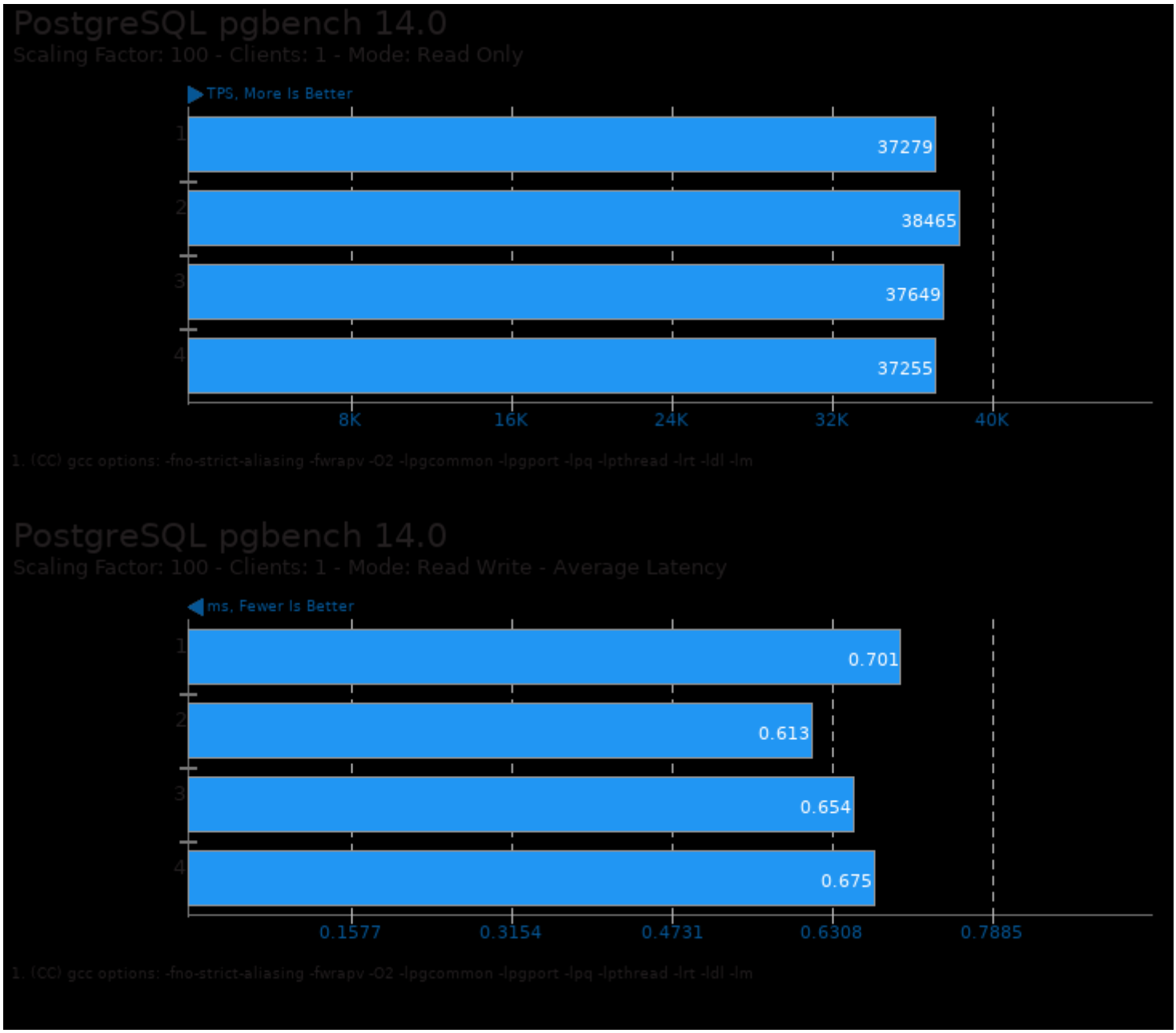
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL pgbench 14.0

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

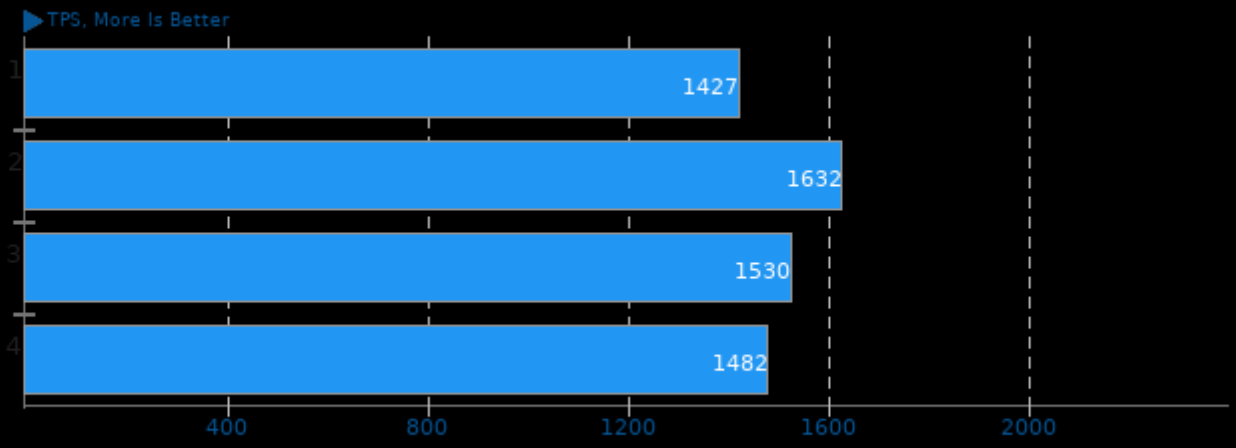


1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm


PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 1 - Mode: Read Only
TPS, More Is Better
1
37279
2
38465
3
37649
4
37255
8K
16K
24K
32K
40K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 1 - Mode: Read Write - Average Latency
ms, Fewer Is Better
1
0.701
2
0.613
3
0.654
4
0.675
0.1577
0.3154
0.4731
0.6308
0.7885
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL pgbench 14.0

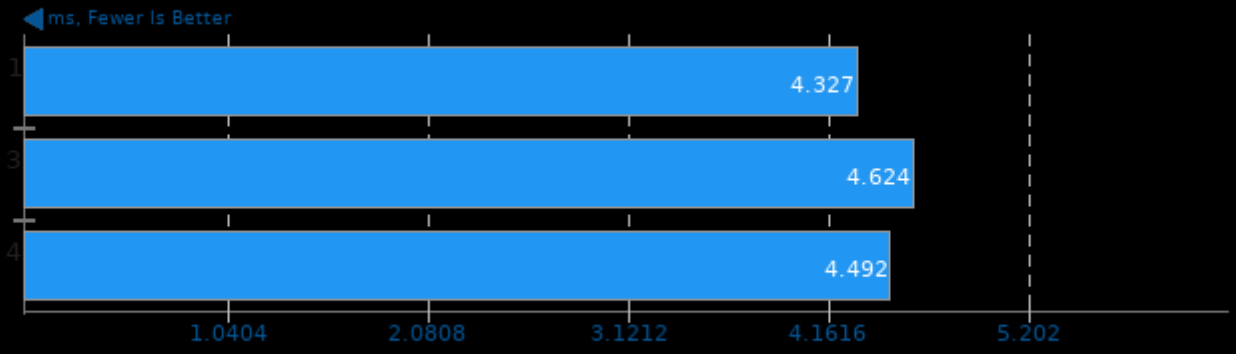
Scaling Factor: 100 - Clients: 1 - Mode: Read Write



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

PostgreSQL pgbench 14.0

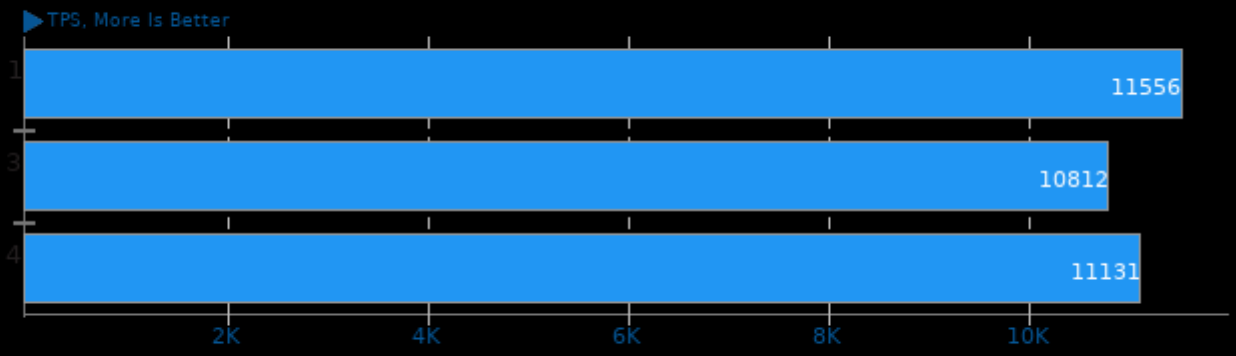
Scaling Factor: 100 - Clients: 50 - Mode: Read Write - Average Latency



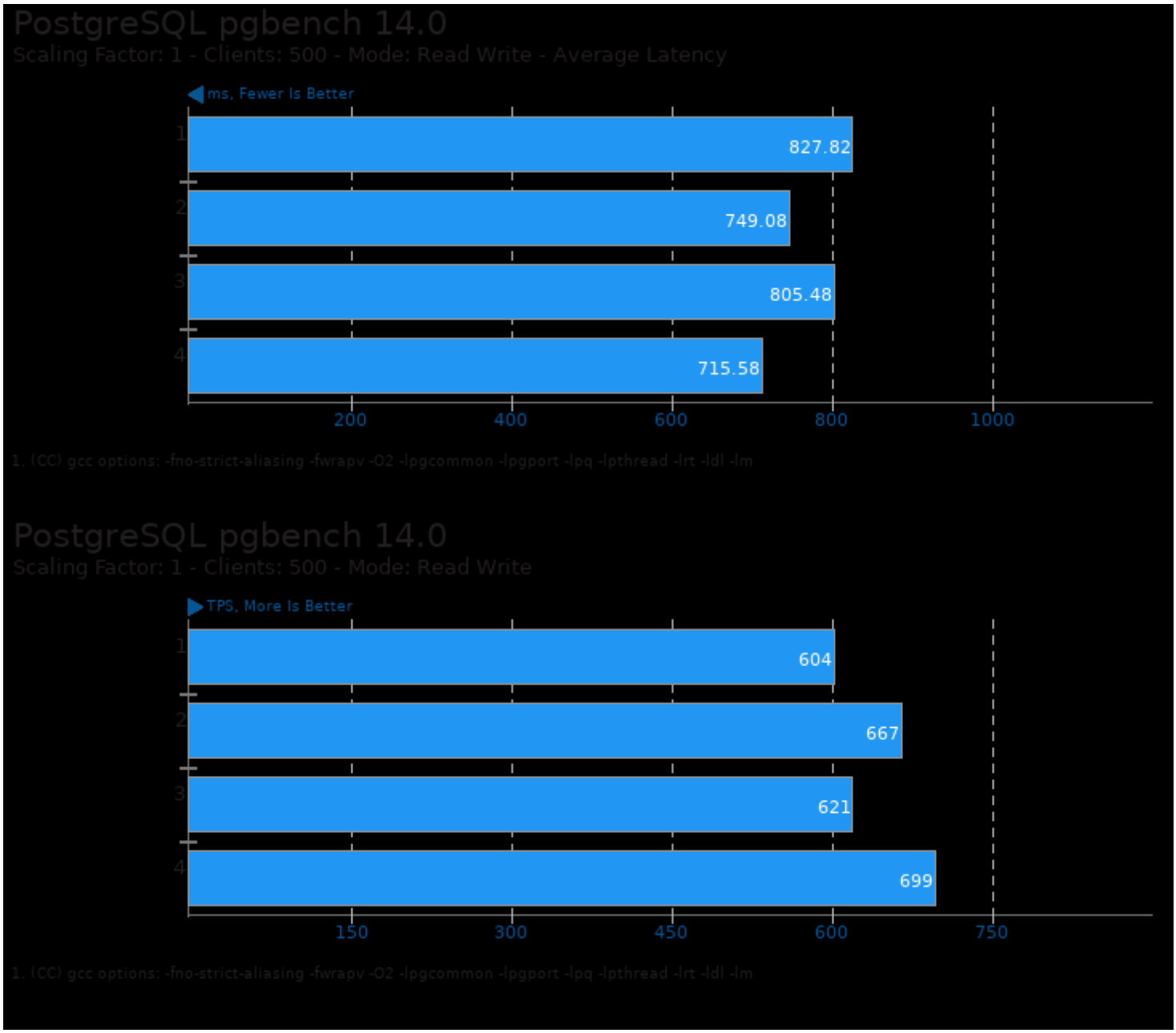
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

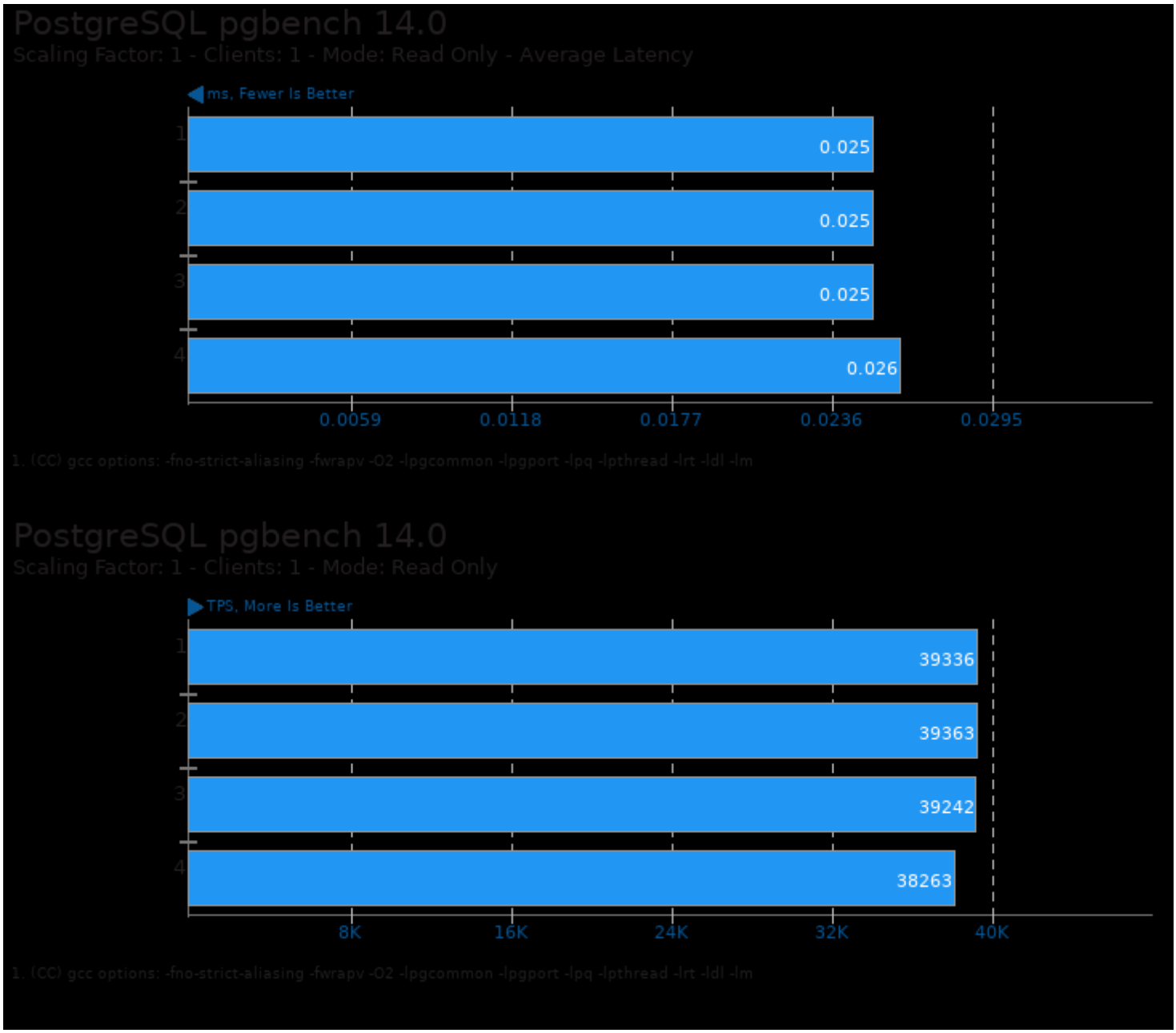
PostgreSQL pgbench 14.0

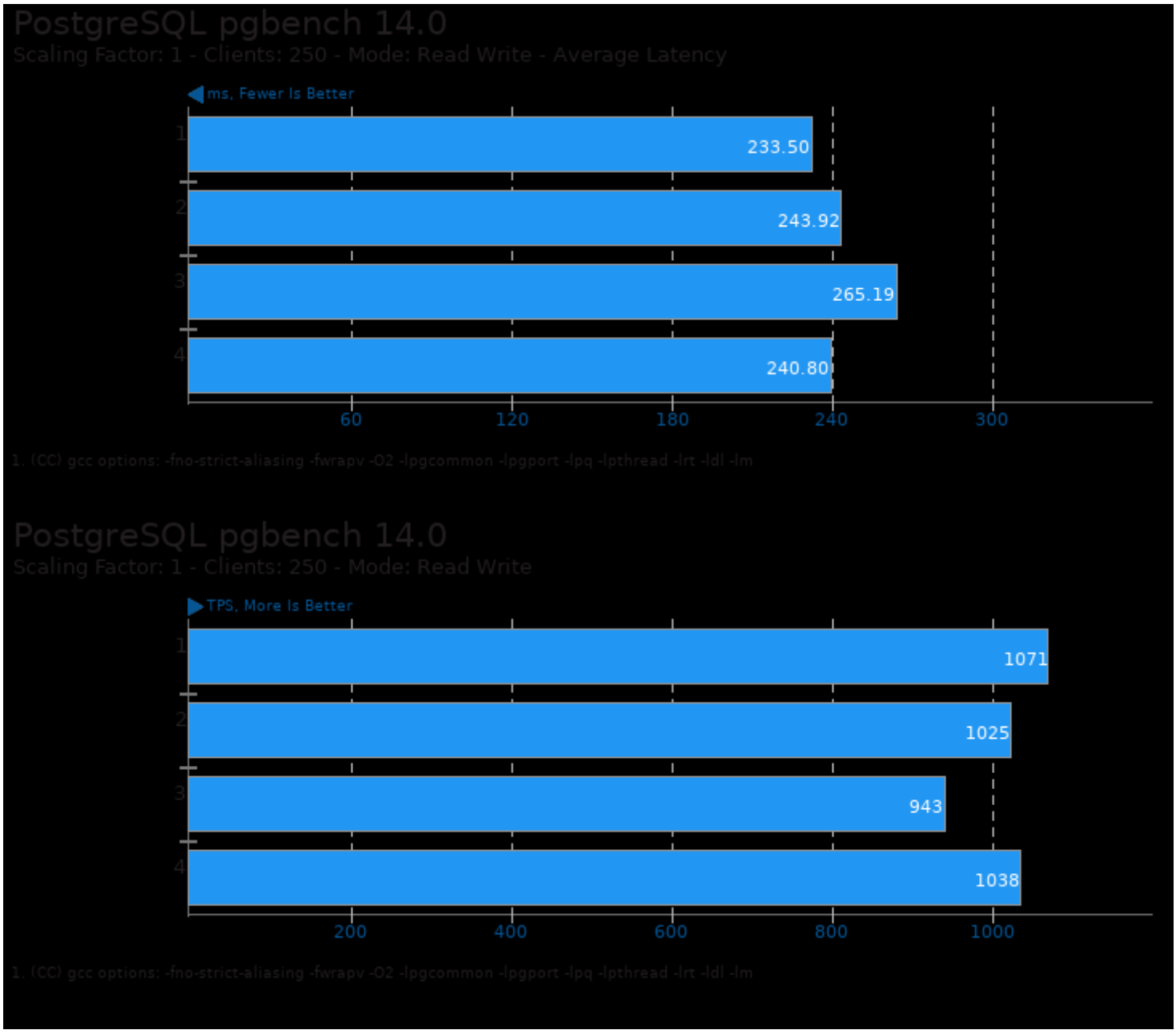
Scaling Factor: 100 - Clients: 50 - Mode: Read Write

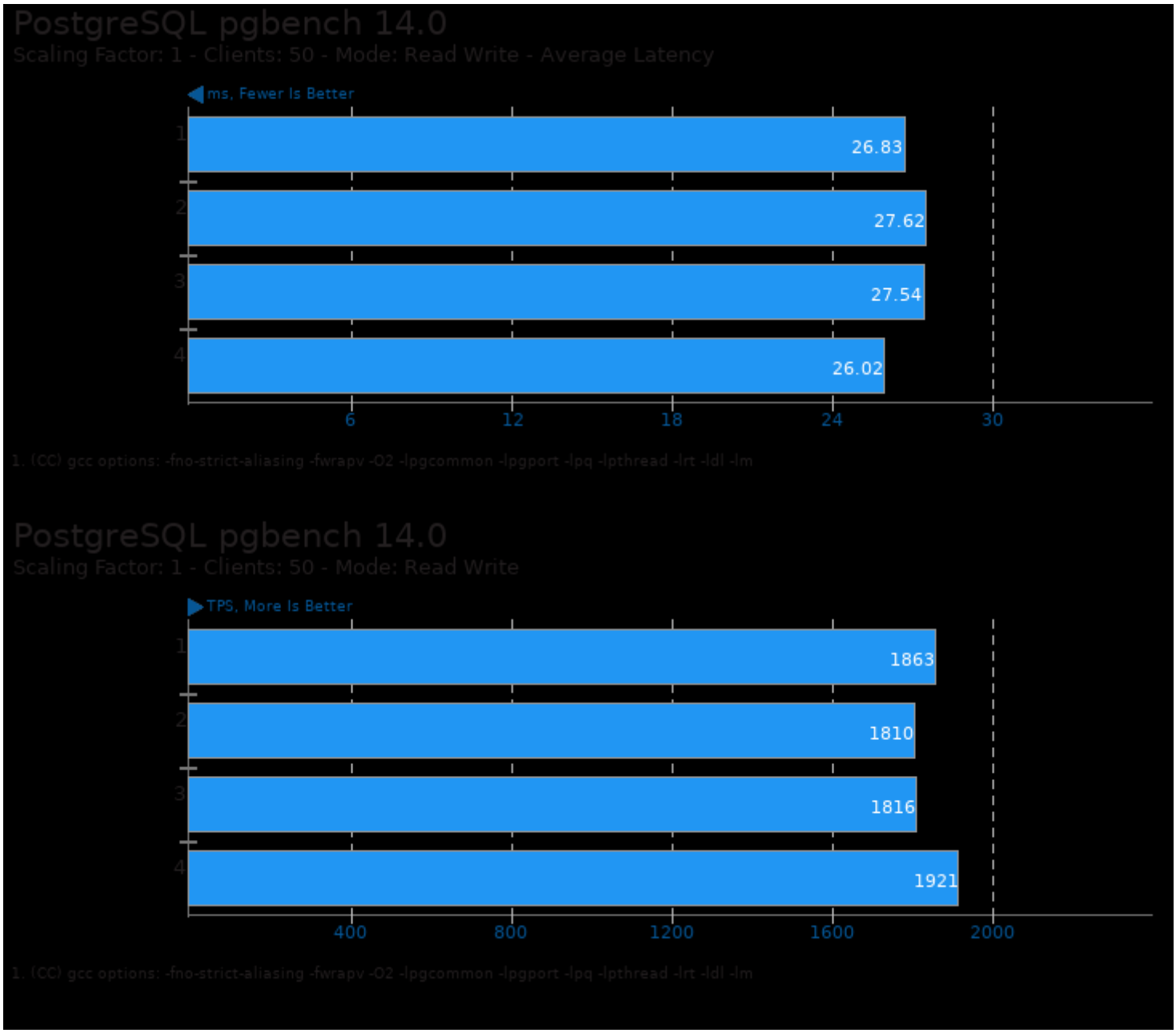


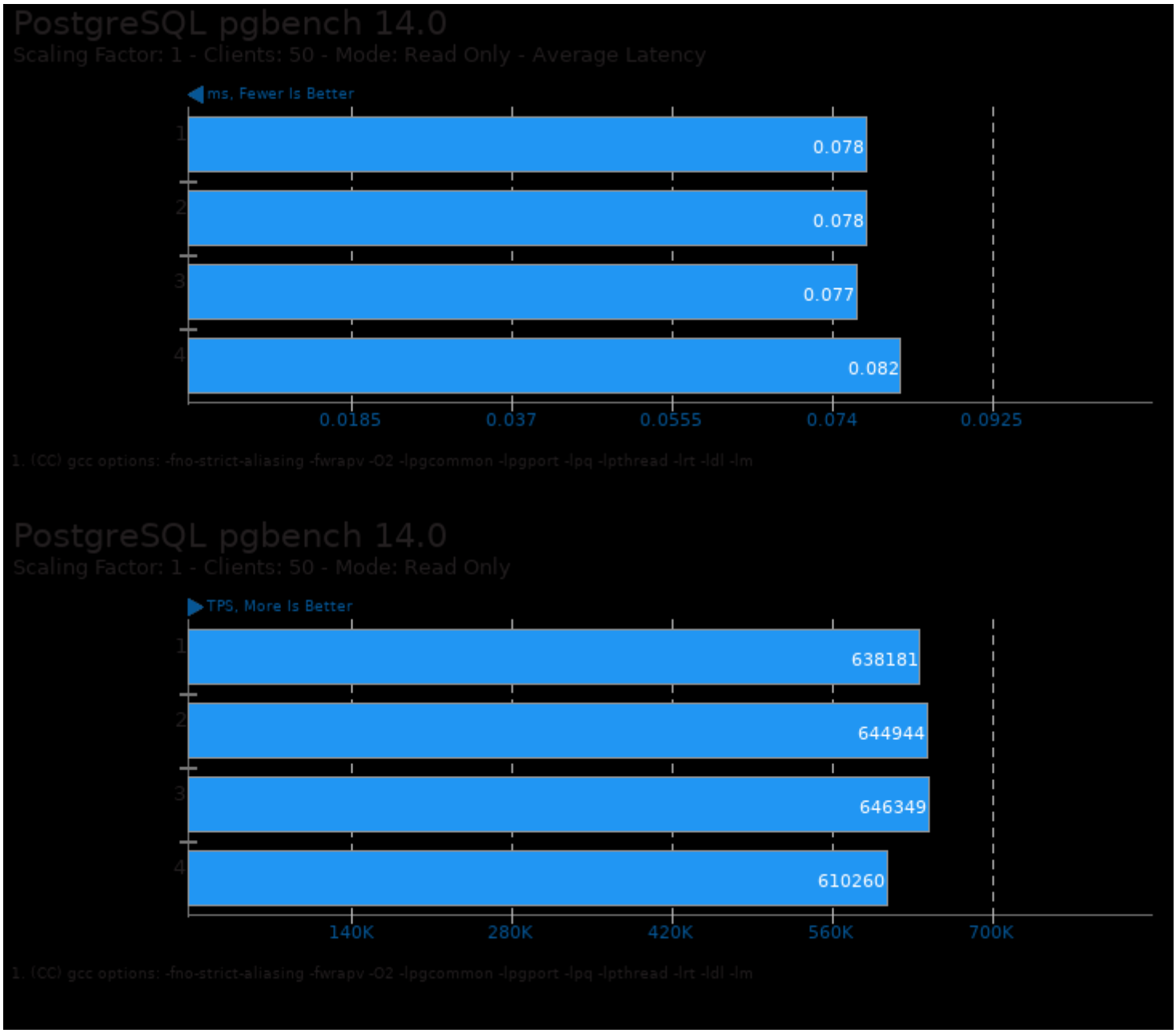
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

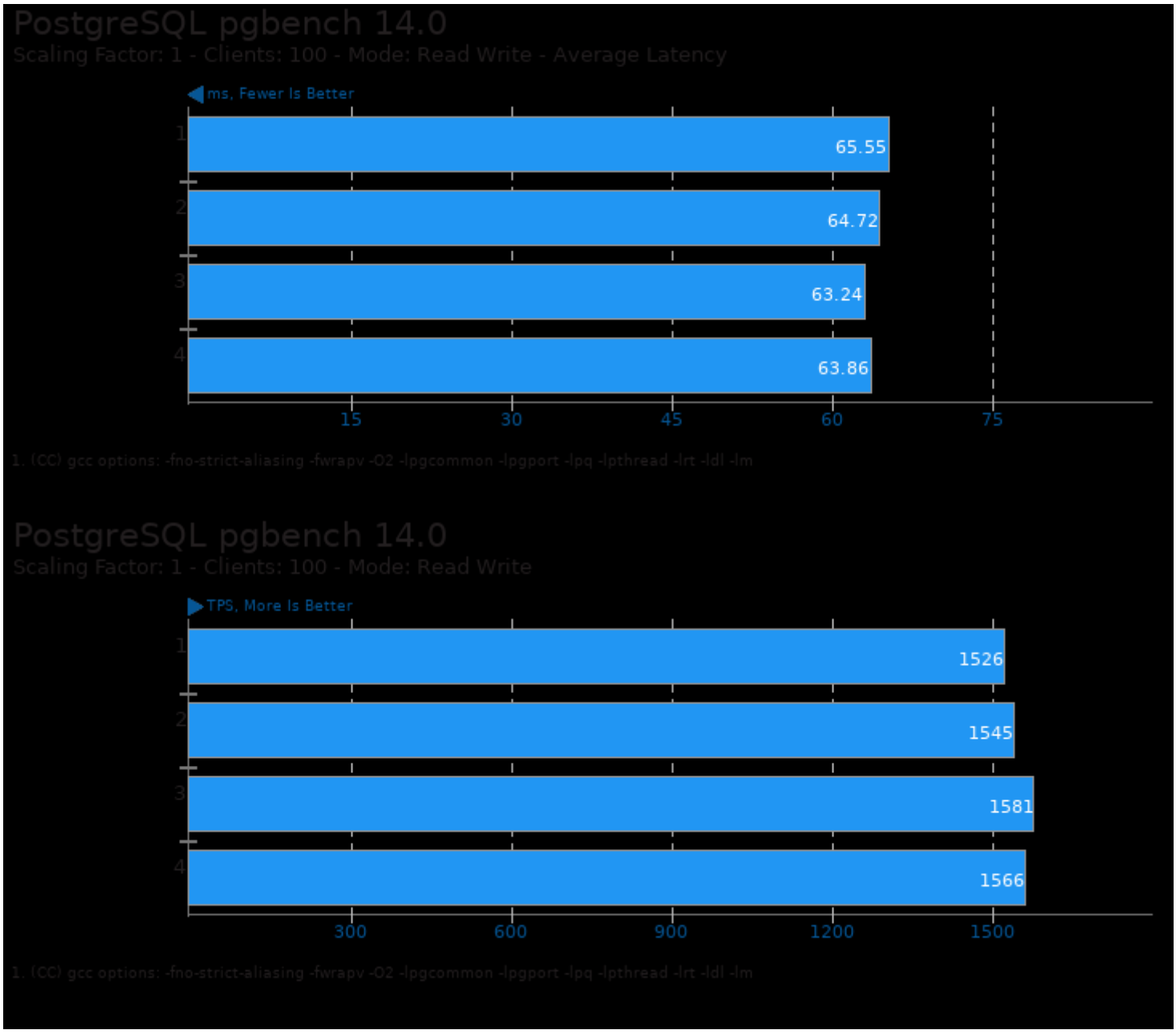

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 500 - Mode: Read Write - Average Latency
ms, Fewer Is Better
1
827.82
2
749.08
3
805.48
4
715.58
200
400
600
800
1000
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 500 - Mode: Read Write
TPS, More Is Better
1
604
2
667
3
621
4
699
150
300
450
600
750
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

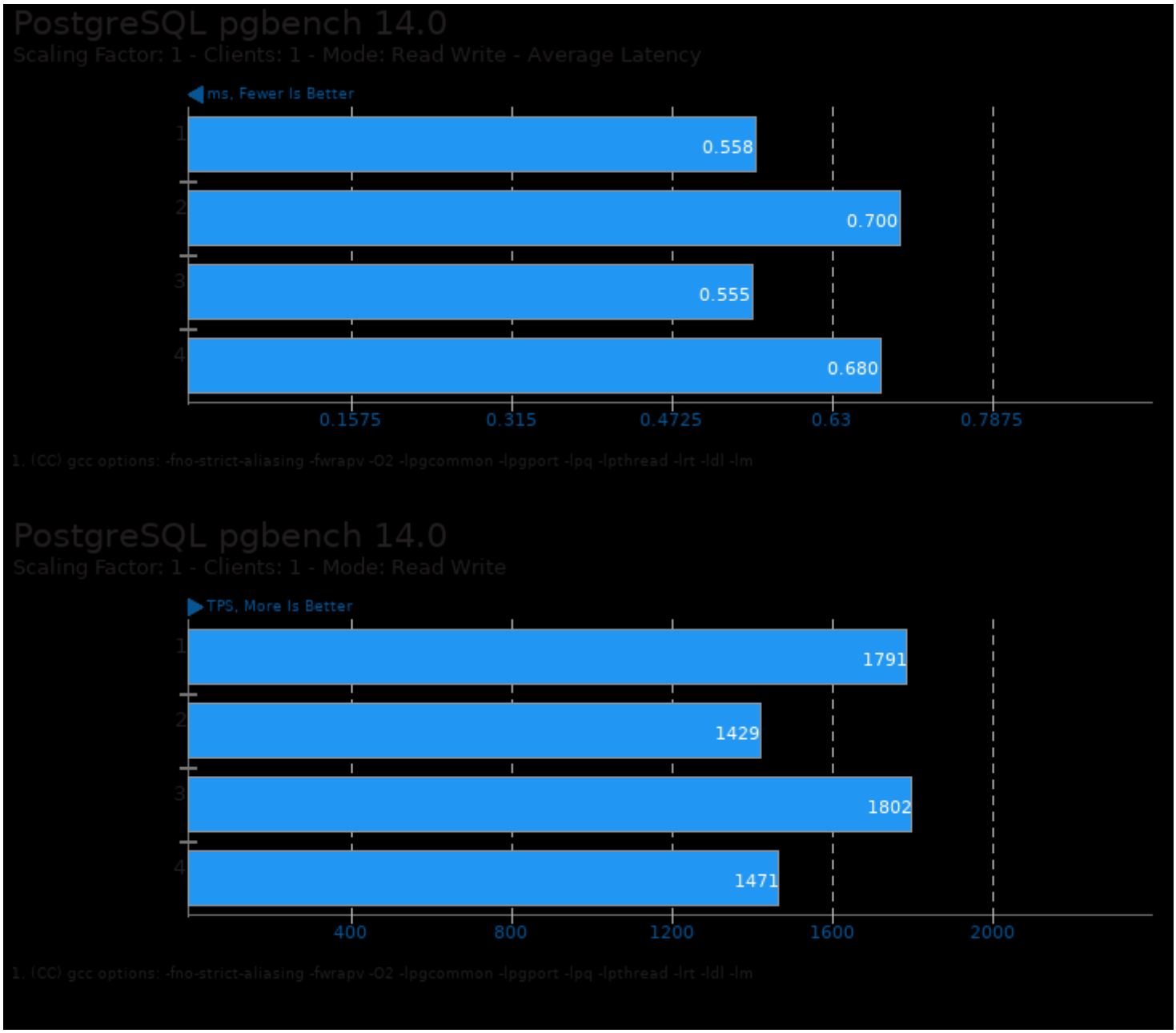

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 1 - Mode: Read Only - Average Latency
ms, Fewer Is Better
1
2
3
4
0.025
0.025
0.025
0.026
0.0059
0.0118
0.0177
0.0236
0.0295
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 1 - Mode: Read Only
TPS, More Is Better
1
2
3
4
39336
39363
39242
38263
8K
16K
24K
32K
40K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

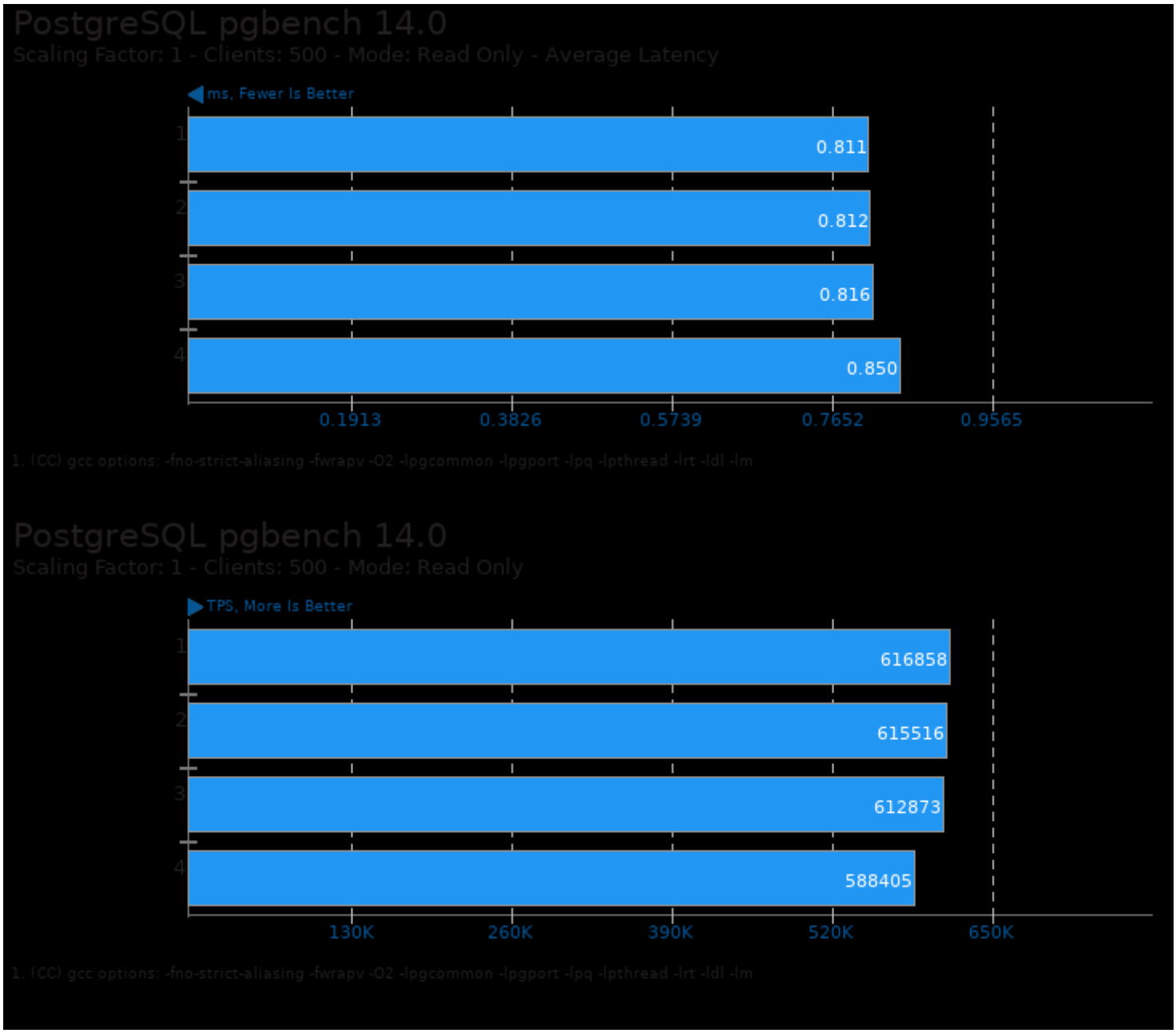

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 250 - Mode: Read Write - Average Latency
ms, Fewer Is Better
1
233.50
2
243.92
3
265.19
4
240.80
60
120
180
240
300
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 250 - Mode: Read Write
TPS, More Is Better
1
1071
2
1025
3
943
4
1038
200
400
600
800
1000
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

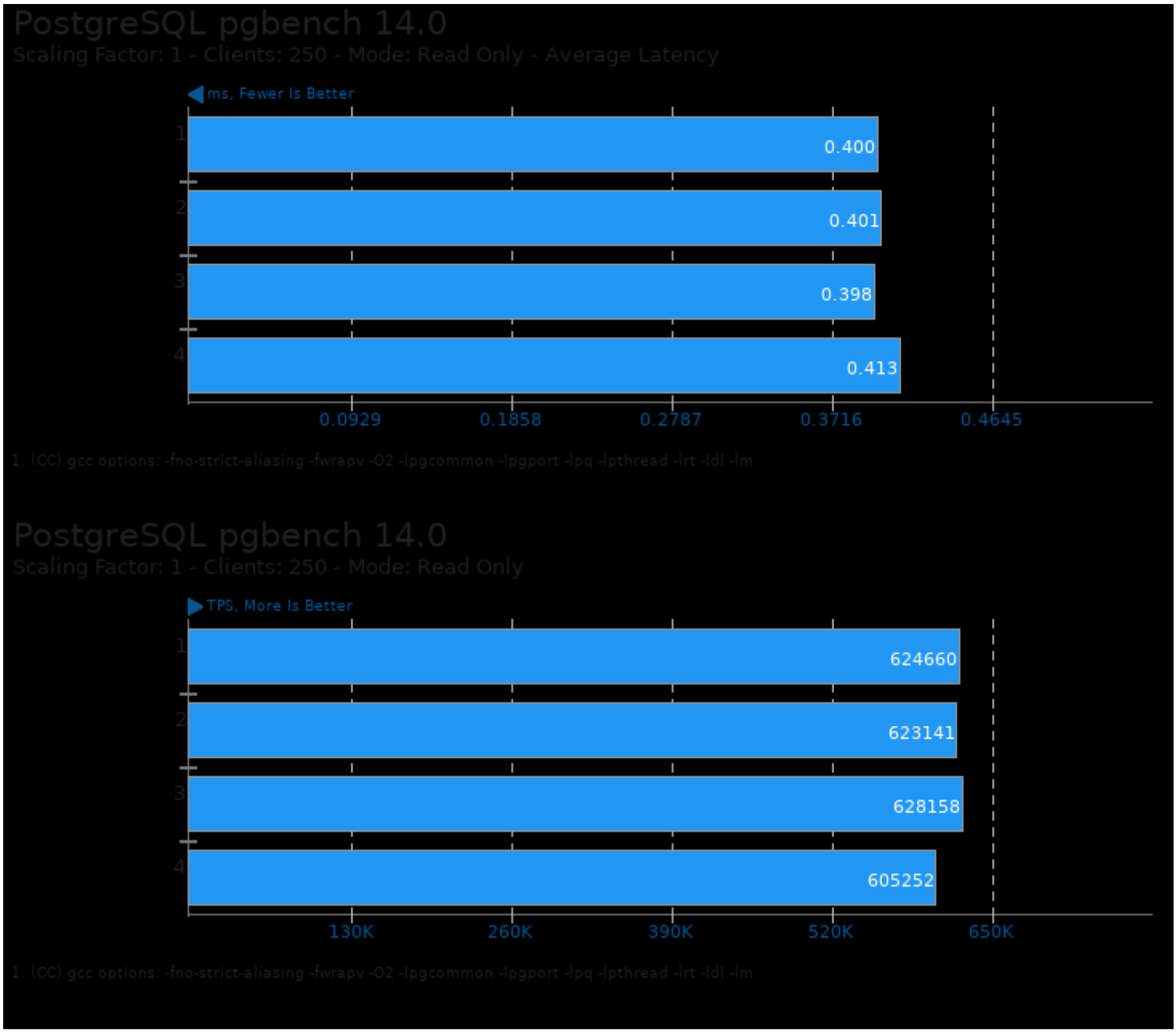

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 50 - Mode: Read Write - Average Latency
ms, Fewer Is Better
1
26.83
2
27.62
3
27.54
4
26.02
6
12
18
24
30
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 50 - Mode: Read Write
TPS, More Is Better
1
1863
2
1810
3
1816
4
1921
400
800
1200
1600
2000
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

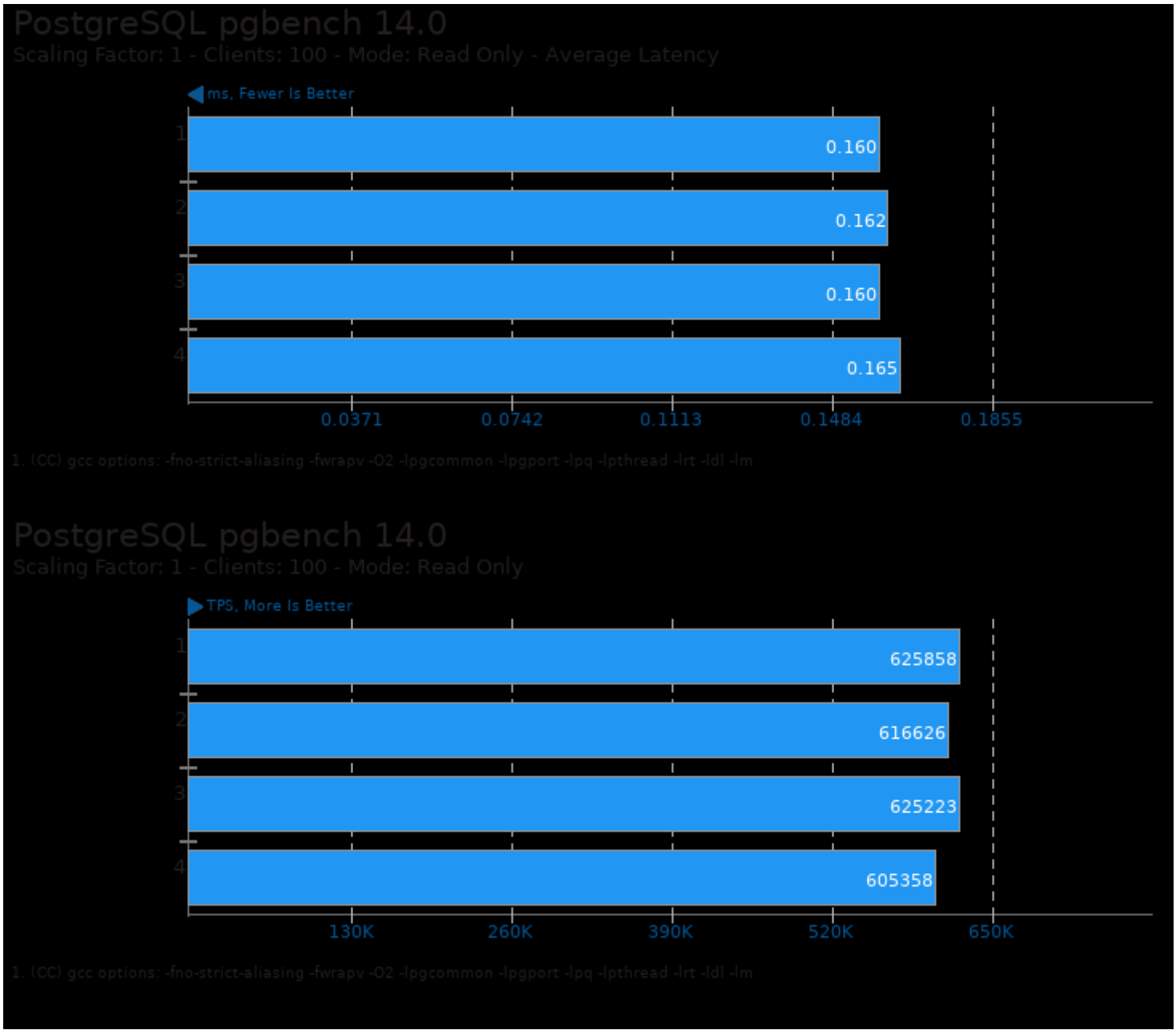

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 50 - Mode: Read Only - Average Latency
ms, Fewer Is Better
1
2
3
4
0.078
0.078
0.077
0.082
0.0185
0.037
0.0555
0.074
0.0925
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 50 - Mode: Read Only
TPS, More Is Better
1
2
3
4
638181
644944
646349
610260
140K
280K
420K
560K
700K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

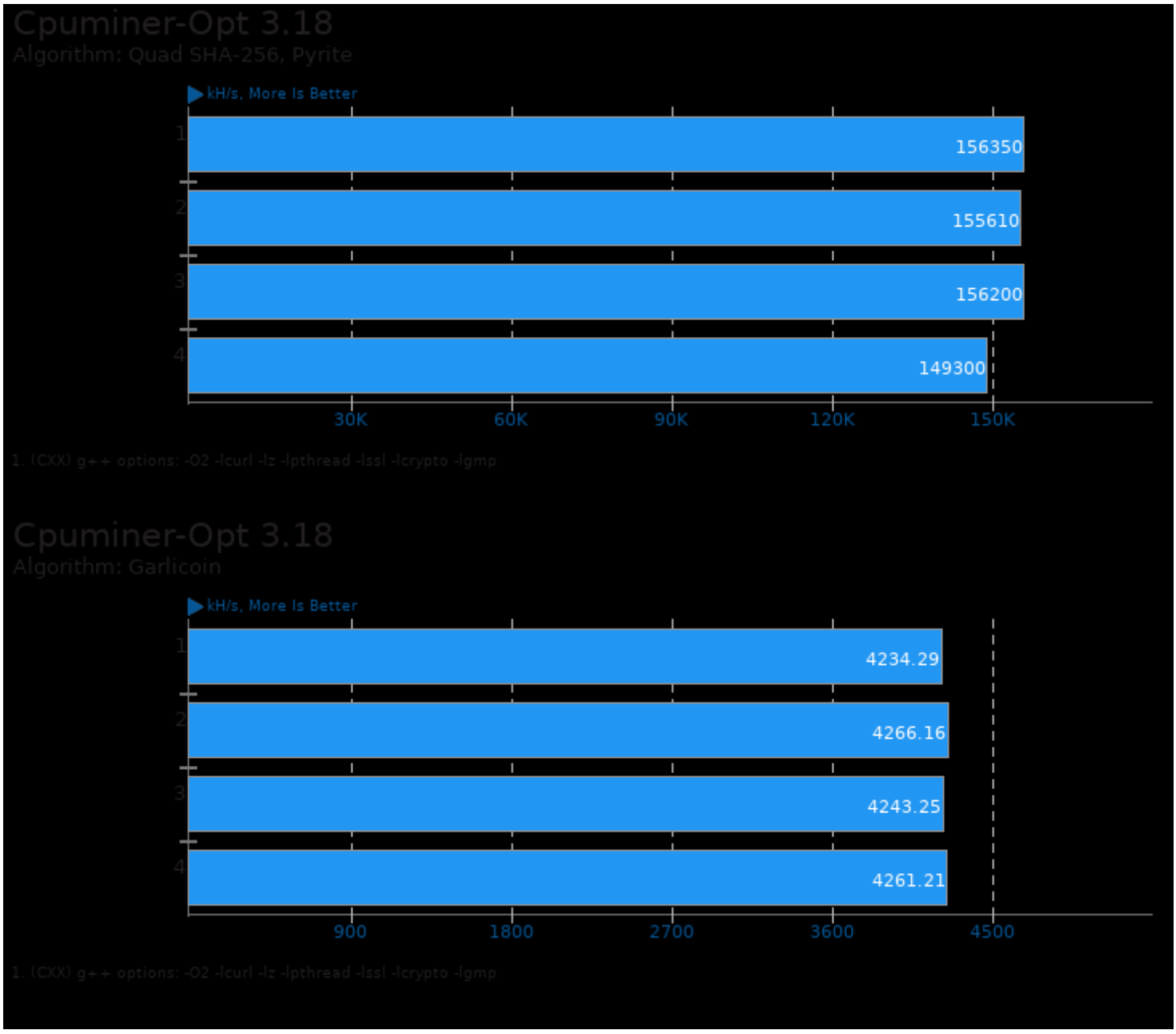

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 100 - Mode: Read Write - Average Latency
ms, Fewer Is Better
1
65.55
2
64.72
3
63.24
4
63.86
15
30
45
60
75
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 100 - Mode: Read Write
TPS, More Is Better
1
1526
2
1545
3
1581
4
1566
300
600
900
1200
1500
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

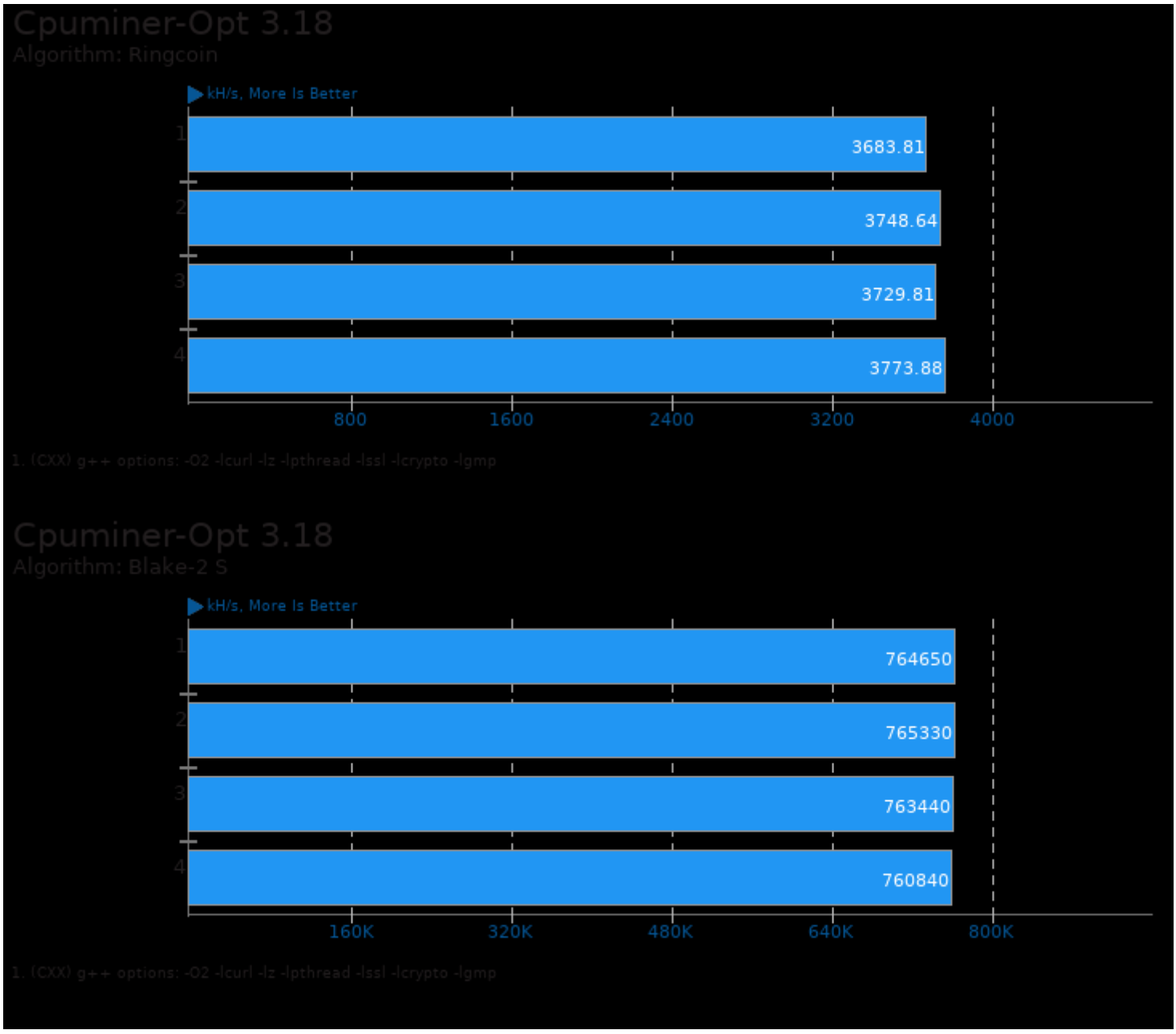

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 1 - Mode: Read Write - Average Latency
ms, Fewer Is Better
1
0.558
2
0.700
3
0.555
4
0.680
0.1575
0.315
0.4725
0.63
0.7875
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 1 - Mode: Read Write
TPS, More Is Better
1
1791
2
1429
3
1802
4
1471
400
800
1200
1600
2000
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
ms, Fewer Is Better
1
2
3
4
0.811
0.812
0.816
0.850
0.1913
0.3826
0.5739
0.7652
0.9565
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
TPS, More Is Better
1
2
3
4
616858
615516
612873
588405
130K
260K
390K
520K
650K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

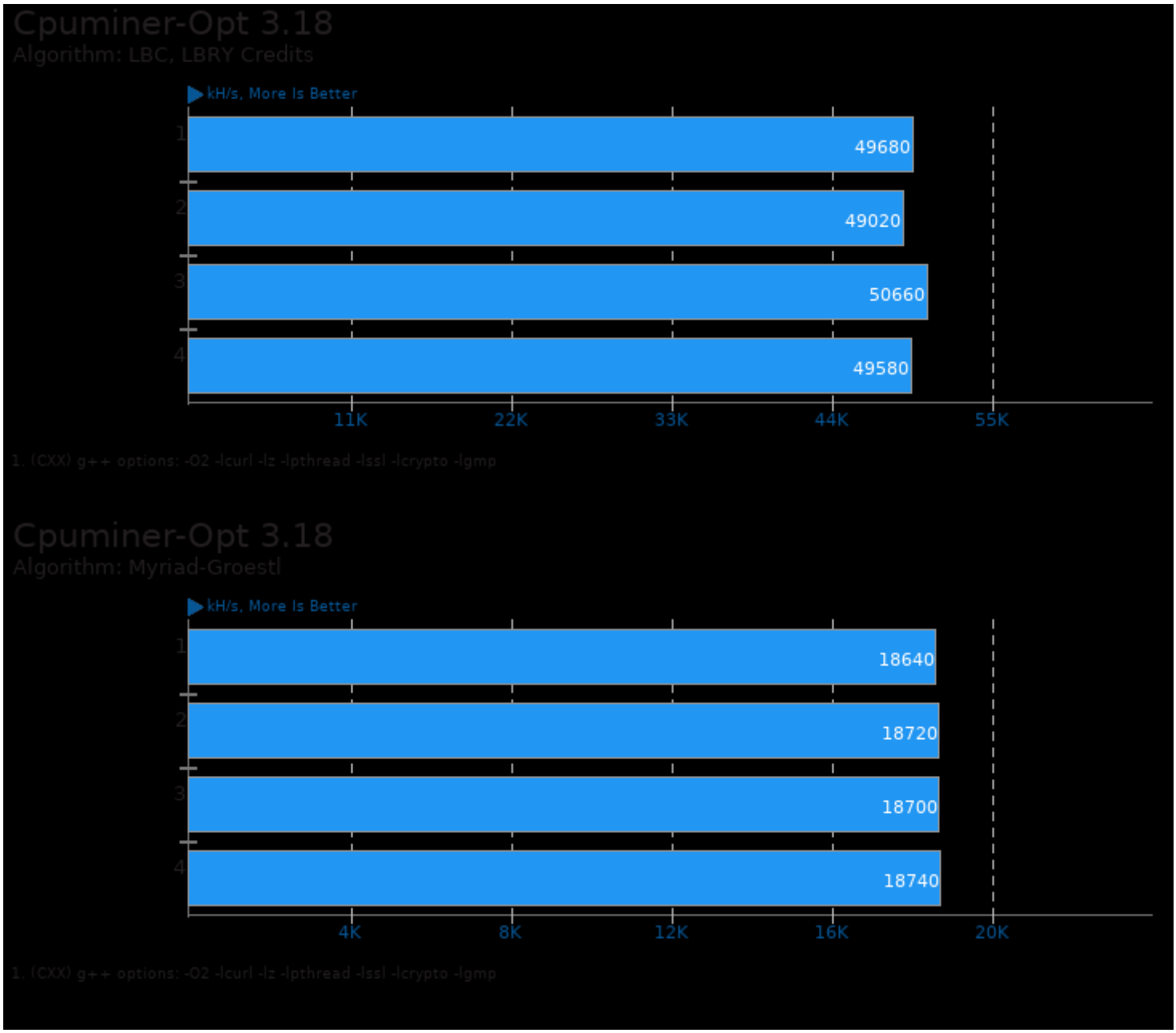

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 250 - Mode: Read Only - Average Latency
ms, Fewer Is Better
1
0.400
2
0.401
3
0.398
4
0.413
0.0929
0.1858
0.2787
0.3716
0.4645
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 250 - Mode: Read Only
TPS, More Is Better
1
624660
2
623141
3
628158
4
605252
130K
260K
390K
520K
650K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

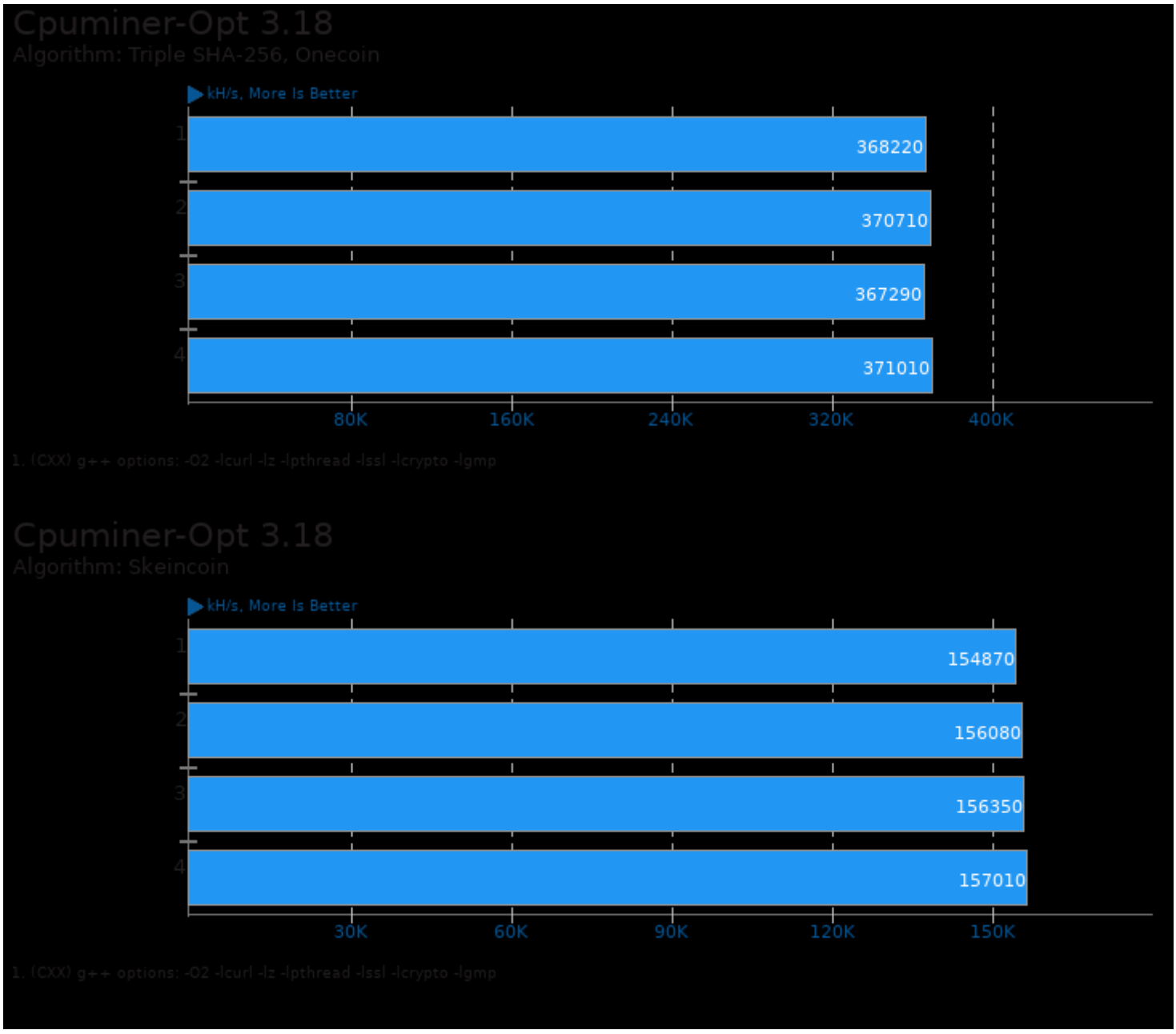

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 100 - Mode: Read Only - Average Latency
ms, Fewer Is Better
1
0.160
2
0.162
3
0.160
4
0.165
0.0371
0.0742
0.1113
0.1484
0.1855
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 100 - Mode: Read Only
TPS, More Is Better
1
625858
2
616626
3
625223
4
605358
130K
260K
390K
520K
650K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm


Cpuminer-Opt 3.18
Algorithm: Quad SHA-256, Pyrite
kH/s, More Is Better
1
2
3
4
156350
155610
156200
149300
30K
60K
90K
120K
150K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: Garlicoin
kH/s, More Is Better
1
2
3
4
4234.29
4266.16
4243.25
4261.21
900
1800
2700
3600
4500
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

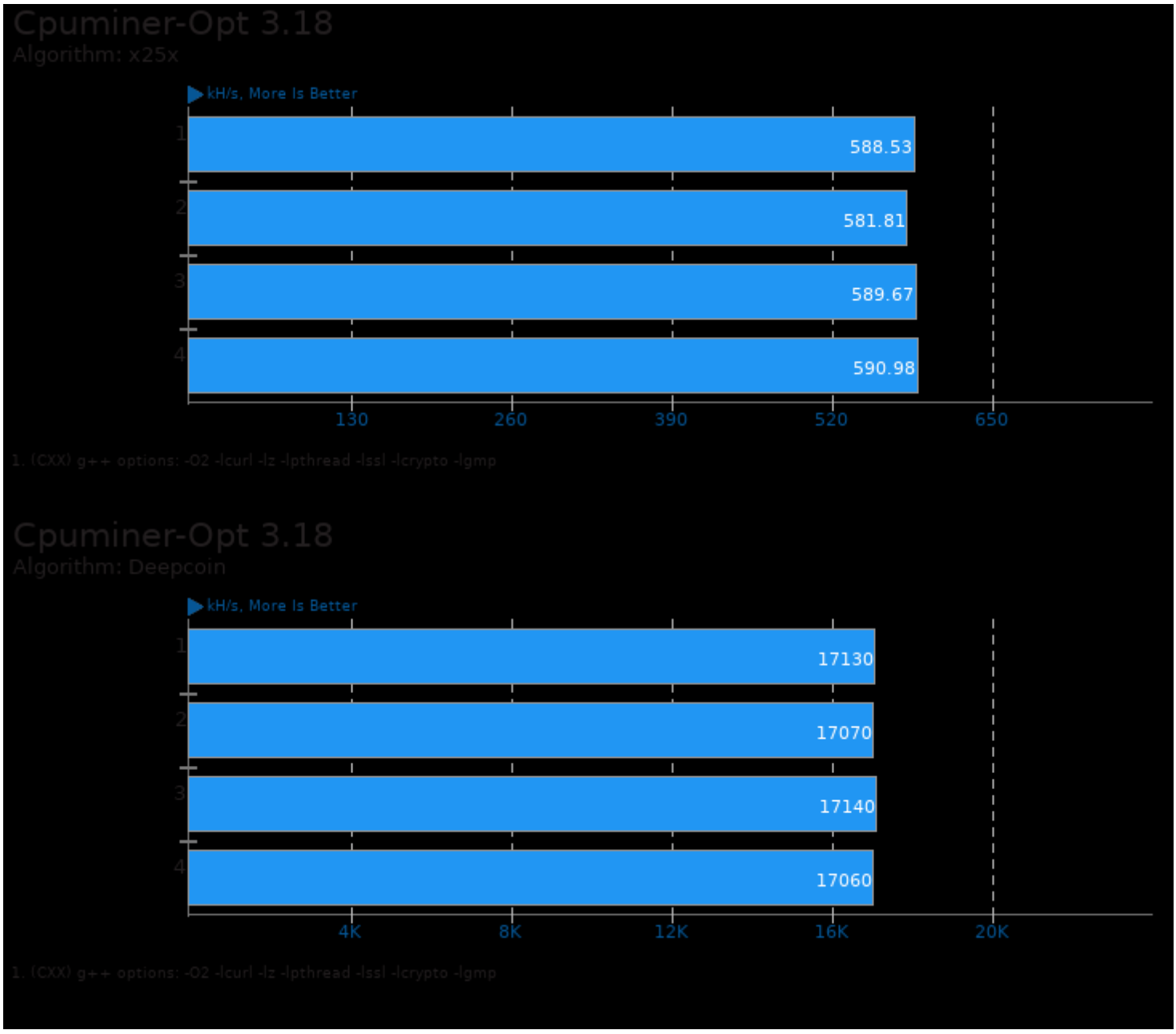

Cpuminer-Opt 3.18
Algorithm: Ringcoin
kH/s, More Is Better
1
2
3
4
3683.81
3748.64
3729.81
3773.88
800
1600
2400
3200
4000
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: Blake-2 S
kH/s, More Is Better
1
2
3
4
764650
765330
763440
760840
160K
320K
480K
640K
800K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

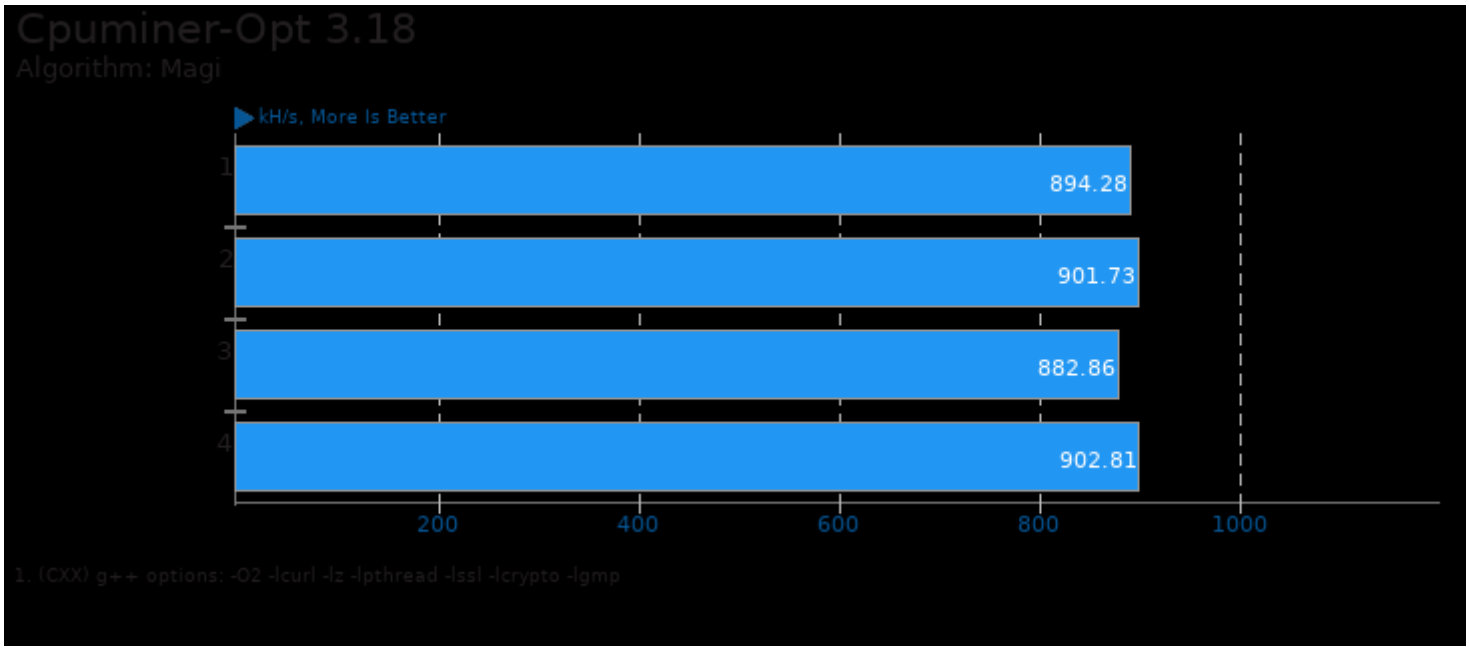
5950x stuff


Cpuminer-Opt 3.18
Algorithm: LBC, LBRY Credits
kH/s, More Is Better
1
2
3
4
49680
49020
50660
49580
11K
22K
33K
44K
55K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: Myriad-Groestl
kH/s, More Is Better
1
2
3
4
18640
18720
18700
18740
4K
8K
12K
16K
20K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp


Cpuminer-Opt 3.18
Algorithm: Triple SHA-256, Onecoin
kH/s, More Is Better
1
368220
2
370710
3
367290
4
371010
80K
160K
240K
320K
400K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: Skeincoin
kH/s, More Is Better
1
154870
2
156080
3
156350
4
157010
30K
60K
90K
120K
150K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

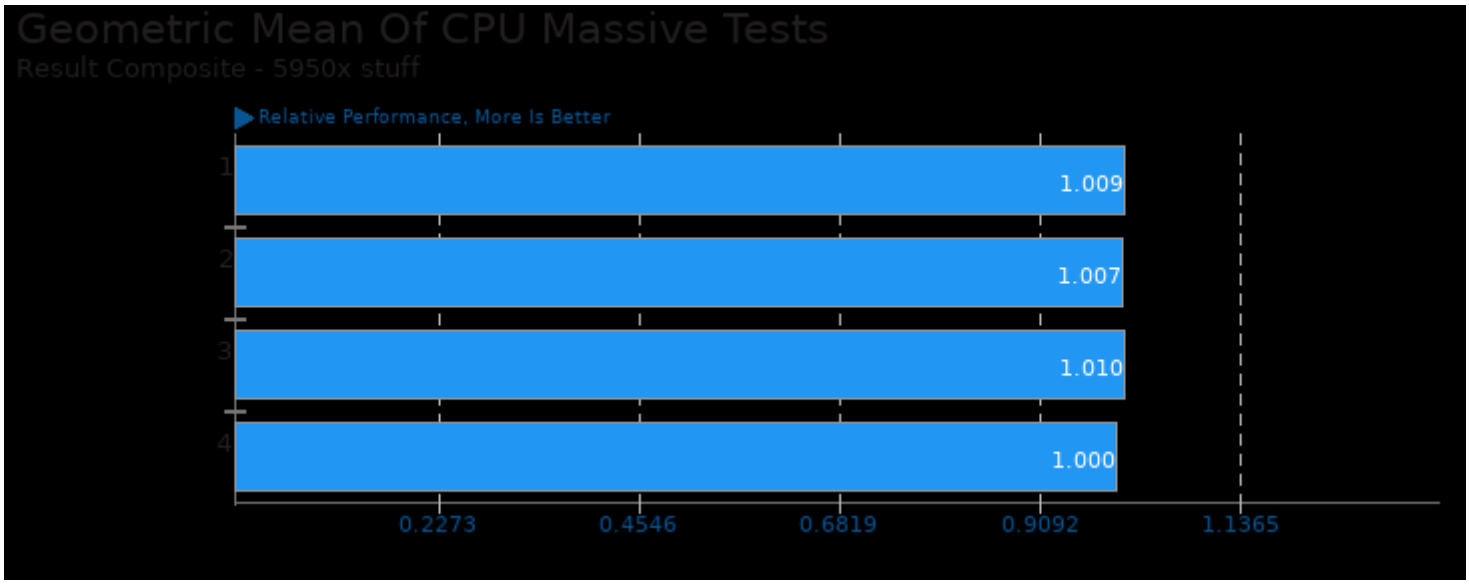
5950x stuff


Cpuminer-Opt 3.18
Algorithm: x25x
kH/s, More Is Better
1
2
3
4
588.53
581.81
589.67
590.98
130
260
390
520
650
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp
Cpuminer-Opt 3.18
Algorithm: Deepcoin
kH/s, More Is Better
1
2
3
4
17130
17070
17140
17060
4K
8K
12K
16K
20K
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

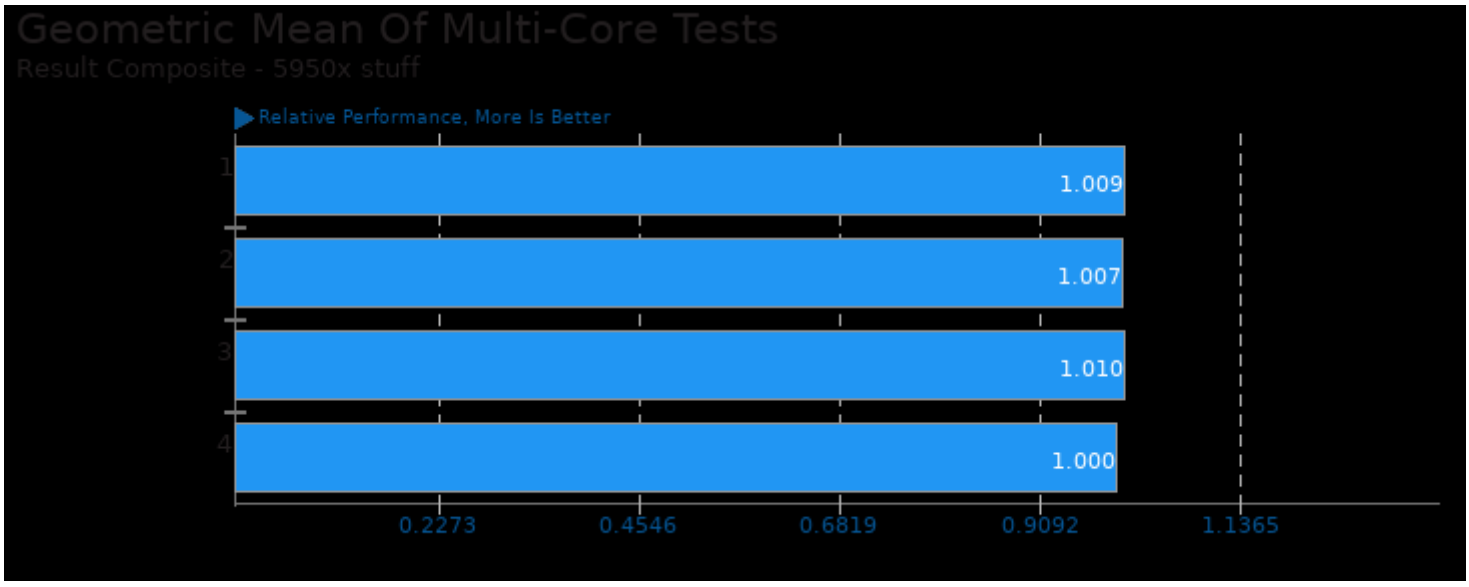

Cpuminer-Opt 3.18
Algorithm: Magi
kH/s, More Is Better
1
894.28
2
901.73
3
882.86
4
902.81
200
400
600
800
1000
1. (CXX) g++ options: -O2 -lcurl -lz -lpthread -lssl -lcrypto -lgmp

5950x stuff

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



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



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 14:13.