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0xO1-pts-pgbench-morph

AMD Ryzen 7 5700U testing with a LENOVO LNVNB161216 (GJCN20WW BIOS) and amdgpudrmfb on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

Convertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683 had the most wins, coming in first place for 65% of the tests.

Based on the geometric mean of all complete results, the fastest (Convertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683) was 1.002x the speed of the slowest (Convertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780).

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

PostgreSQL pgbench (Scaling Factor: 1 - Clients: 1 - Mode: Read Only - Average Latency) at 1.607x
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 1 - Mode: Read Only) at 1.57x
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 50 - Mode: Read Only - Average Latency) at 1.437x
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 50 - Mode: Read Only) at 1.435x
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 100 - Mode: Read Only) at 1.413x
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 100 - Mode: Read Only - Average Latency) at 1.411x
PostgreSQL pgbench (Scaling Factor: 1 - Clients: 250 - Mode: Read Only - Average Latency) at 1.391x

PostgreSQL pgbench (Scaling Factor: 1 - Clients: 250 - Mode: Read Only) at 1.391x
PostgreSQL pgbench (Scaling Factor: 100 - Clients: 1 - Mode: Read Only) at 1.142x
PostgreSQL pgbench (Scaling Factor: 100 - Clients: 1 - Mode: Read Only - Average Latency) at 1.129x.

Test Systems:

Convertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780

Convertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683

Processor: AMD Ryzen 7 5700U @ 1.80GHz (8 Cores / 16 Threads), Motherboard: LENOVO LNVNB161216 (GJCN20WW BIOS), Chipset: AMD Renoir Root Complex, Memory: 16GB, Disk: 256GB HFM256GDJTNG-8310A, Graphics: amdgpudrmfb (1900/400MHz), Audio: AMD Device 1637, Network: Realtek RTL8822CE 802.11ac PCIe

OS: Ubuntu 20.04, Kernel: 5.11.0-40-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

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
Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x8608103
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: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	Convertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780	Convertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
PostgreSQL pgbench - 1000 - 100 - Read Only - Average Latency (ms)		1.272
Standard Deviation		2.8%
PostgreSQL pgbench - 1000 - 100 - Read Only (TPS)		78634
Standard Deviation		2.7%
PostgreSQL pgbench - 1000 - 1 - Read Write - Average Latency (ms)		3.788
Standard Deviation		10.1%
PostgreSQL pgbench - 1000 - 1 - Read Write (TPS)		267
Standard Deviation		13.1%
PostgreSQL pgbench - 1000 - 1 - Read Only - Average Latency (ms)	**0.182**	**0.174**
Normalized	95.6%	100%
Standard Deviation	6.5%	7.1%

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PostgreSQL pgbench - 1000 - 1 - Read Only (TPS)	**5530**	**5759**
Normalized	96.02%	100%
Standard Deviation	6.4%	6.8%
PostgreSQL pgbench - 1000 - 250 - Read Write - Average Latency (ms)		40.887
Standard Deviation		6.3%
PostgreSQL pgbench - 1000 - 250 - Read Write (TPS)		6134
Standard Deviation		6.5%
PostgreSQL pgbench - 100 - 50 - Read Write - Average Latency (ms)		7.237
Standard Deviation		4.8%
PostgreSQL pgbench - 100 - 50 - Read Write (TPS)		6923
Standard Deviation		4.7%
PostgreSQL pgbench - 1 - 500 - Read Write - Average Latency (ms)	**694.352**	**1048**
Normalized	100%	66.24%
Standard Deviation	7.2%	47.5%
PostgreSQL pgbench - 1 - 500 - Read Write (TPS)	**723**	**569**
Normalized	100%	78.7%
Standard Deviation	6.8%	37.6%
PostgreSQL pgbench - 1 - 500 - Read Only - Average Latency (ms)	**4.100**	**3.874**
Normalized	94.49%	100%
Standard Deviation	7.6%	7.3%
PostgreSQL pgbench - 1 - 500 - Read Only (TPS)	**122555**	**129651**
Normalized	94.53%	100%
Standard Deviation	6.9%	6.7%
PostgreSQL pgbench - 100 - 1 - Read Write - Average Latency (ms)	**1.503**	**2.186**
Normalized	100%	68.76%
Standard Deviation	25.2%	36.7%
PostgreSQL pgbench - 100 - 1 - Read Write (TPS)	**700**	**519**
Normalized	100%	74.14%
Standard Deviation	22.7%	37.7%
PostgreSQL pgbench - 100 - 500 - Read Only - Average Latency (ms)		3.972
Standard Deviation		2.4%
PostgreSQL pgbench - 100 - 500 - Read Only (TPS)		125966
Standard Deviation		2.5%
PostgreSQL pgbench - 1000 - 100 - Read Write - Average Latency (ms)		16.604
Standard Deviation		2.1%
PostgreSQL pgbench - 1000 - 100 - Read Write (TPS)		6025
Standard Deviation		2.1%
PostgreSQL pgbench - 1 - 50 - Read Write - Average Latency (ms)	**46.237**	**97.989**
Normalized	100%	47.19%
Standard Deviation	2.4%	52.4%
PostgreSQL pgbench - 1 - 50 - Read Write (TPS)	**1082**	**696**
Normalized	100%	64.33%
Standard Deviation	2.5%	56.8%

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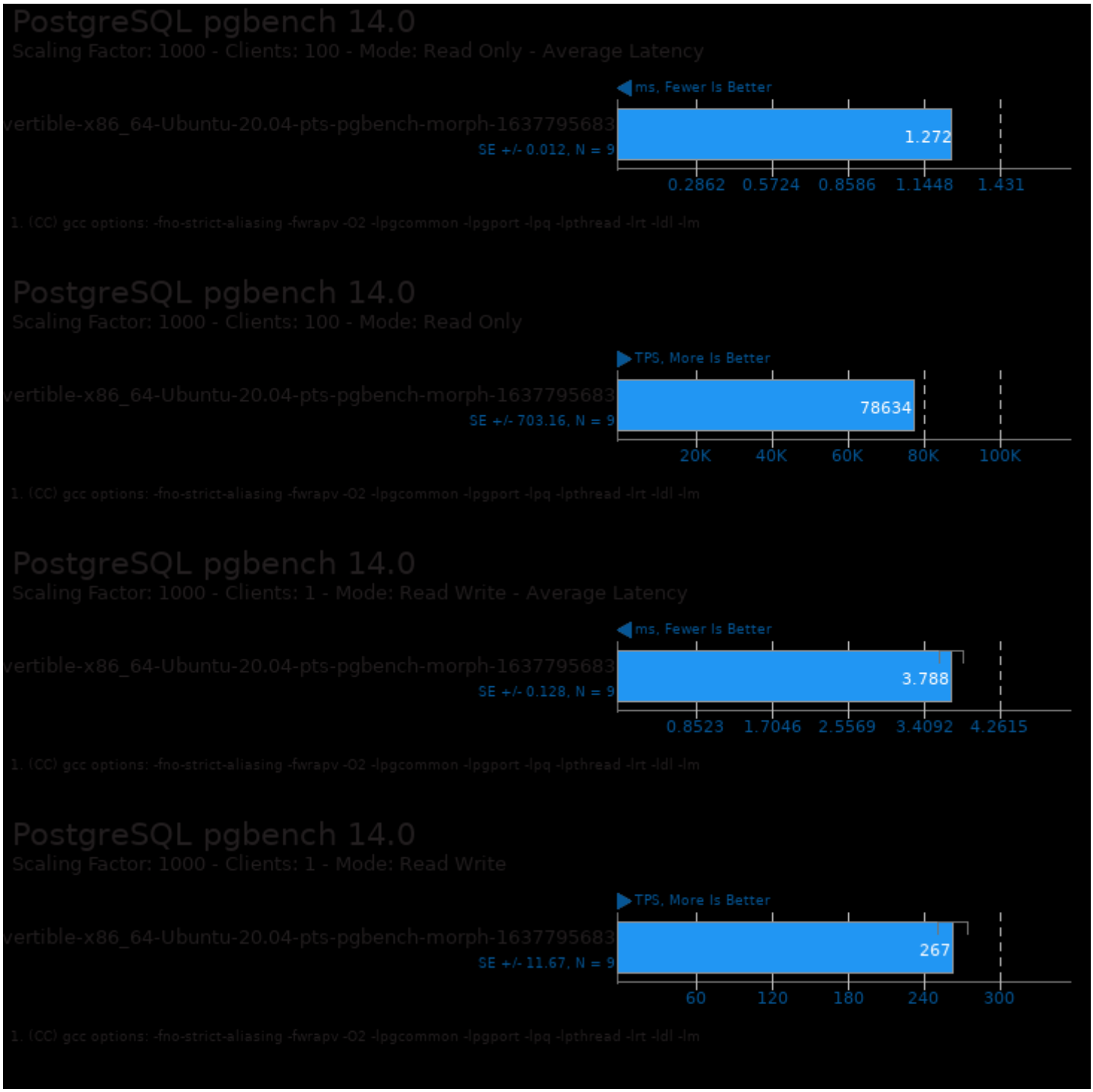
PostgreSQL pgbench - 1 - 1 - Read Write - Average Latency (ms)	**1.112**	**1.347**
Normalized	100%	82.55%
Standard Deviation	2.3%	77.3%
PostgreSQL pgbench - 1 - 1 - Read Write (TPS)	**900**	**1013**
Normalized	88.85%	100%
Standard Deviation	2.4%	40%
PostgreSQL pgbench - 1000 - 50 - Read Only - Average Latency (ms)		0.644
Standard Deviation		0.4%
PostgreSQL pgbench - 1000 - 50 - Read Only (TPS)		77687
Standard Deviation		0.3%
PostgreSQL pgbench - 1000 - 500 - Read Only - Average Latency (ms)		8.496
Standard Deviation		1.1%
PostgreSQL pgbench - 1000 - 500 - Read Only (TPS)		58860
Standard Deviation		1.1%
PostgreSQL pgbench - 1000 - 50 - Read Write - Average Latency (ms)		10.105
Standard Deviation		2.3%
PostgreSQL pgbench - 1000 - 50 - Read Write (TPS)		4950
Standard Deviation		2.3%
PostgreSQL pgbench - 1000 - 250 - Read Only - Average Latency (ms)		3.868
Standard Deviation		1%
PostgreSQL pgbench - 1000 - 250 - Read Only (TPS)		64632
Standard Deviation		1%
PostgreSQL pgbench - 1 - 100 - Read Write - Average Latency (ms)	**87.843**	**180.144**
Normalized	100%	48.76%
Standard Deviation	1.2%	58.7%
PostgreSQL pgbench - 1 - 100 - Read Write (TPS)	**1139**	**767**
Normalized	100%	67.34%
Standard Deviation	1.2%	52.2%
PostgreSQL pgbench - 100 - 100 - Read Only - Average Latency (ms)	**0.738**	**0.680**
Normalized	92.14%	100%
Standard Deviation	1.8%	2.4%
PostgreSQL pgbench - 100 - 100 - Read Only (TPS)	**135441**	**147121**
Normalized	92.06%	100%
Standard Deviation	1.8%	2.4%
PostgreSQL pgbench - 100 - 250 - Read Only - Average Latency (ms)	**1.933**	**1.795**
Normalized	92.86%	100%
Standard Deviation	2.4%	1.3%
PostgreSQL pgbench - 100 - 250 - Read Only (TPS)	**129395**	**139300**
Normalized	92.89%	100%
Standard Deviation	2.4%	1.3%
PostgreSQL pgbench - 100 - 250 - Read Write - Average Latency (ms)		30.872
Standard Deviation		2.5%
PostgreSQL pgbench - 100 - 250 - Read Write (TPS)		8102
Standard Deviation		2.5%

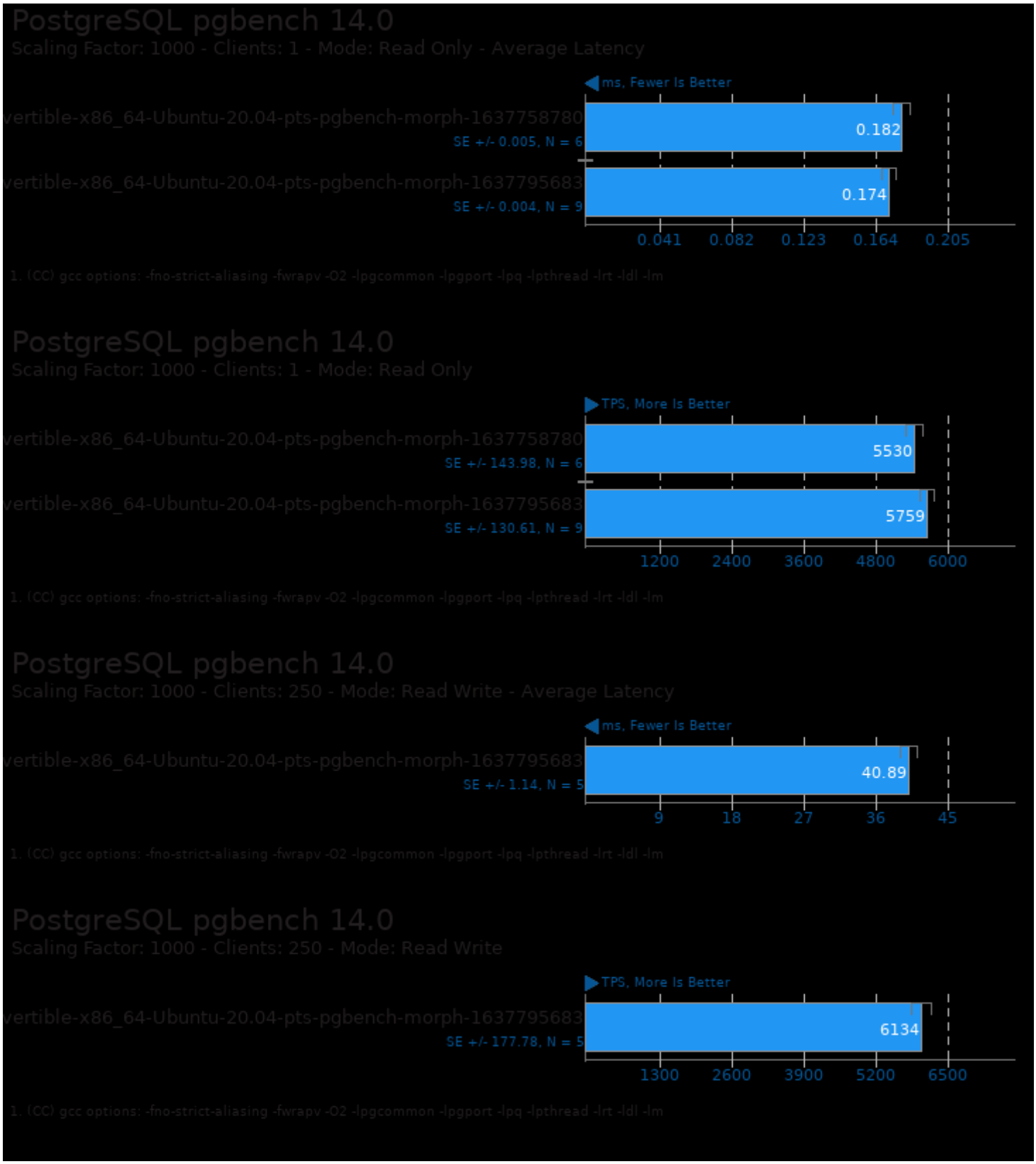
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PostgreSQL pgbench - 1 - 100 - Read Only - Average Latency (ms)	**0.906**	**0.642**
Normalized	70.86%	100%
Standard Deviation	1.4%	2.1%
PostgreSQL pgbench - 1 - 100 - Read Only (TPS)	**110350**	**155904**
Normalized	70.78%	100%
Standard Deviation	1.5%	2.2%
PostgreSQL pgbench - 100 - 100 - Read Write - Average Latency (ms)		14.481
Standard Deviation		0.4%
PostgreSQL pgbench - 100 - 100 - Read Write (TPS)		6906
Standard Deviation		0.4%
PostgreSQL pgbench - 100 - 500 - Read Write - Average Latency (ms)		62.808
Standard Deviation		1.5%
PostgreSQL pgbench - 100 - 500 - Read Write (TPS)		7962
Standard Deviation		1.5%
PostgreSQL pgbench - 100 - 50 - Read Only - Average Latency (ms)	**0.272**	**0.267**
Normalized	98.16%	100%
Standard Deviation	0.6%	0.6%
PostgreSQL pgbench - 100 - 50 - Read Only (TPS)	**183781**	**187696**
Normalized	97.91%	100%
Standard Deviation	0.6%	0.6%
PostgreSQL pgbench - 100 - 1 - Read Only - Average Latency (ms)	**0.035**	**0.031**
Normalized	88.57%	100%
Standard Deviation	1.6%	3.8%
PostgreSQL pgbench - 100 - 1 - Read Only (TPS)	**28502**	**32553**
Normalized	87.56%	100%
Standard Deviation	1.2%	2.3%
PostgreSQL pgbench - 1 - 250 - Read Write - Average Latency (ms)	**260.080**	**264.767**
Normalized	100%	98.23%
Standard Deviation	2.1%	1.6%
PostgreSQL pgbench - 1 - 250 - Read Write (TPS)	**962**	**944**
Normalized	100%	98.13%
Standard Deviation	2.1%	1.6%
PostgreSQL pgbench - 1 - 250 - Read Only - Average Latency (ms)	**2.363**	**1.699**
Normalized	71.9%	100%
Standard Deviation	1%	0.7%
PostgreSQL pgbench - 1 - 250 - Read Only (TPS)	**105812**	**147147**
Normalized	71.91%	100%
Standard Deviation	1%	0.7%
PostgreSQL pgbench - 1 - 50 - Read Only - Average Latency (ms)	**0.365**	**0.254**
Normalized	69.59%	100%
Standard Deviation	0.7%	0.2%
PostgreSQL pgbench - 1 - 50 - Read Only (TPS)	**137076**	**196644**
Normalized	69.71%	100%
Standard Deviation	0.7%	0.2%

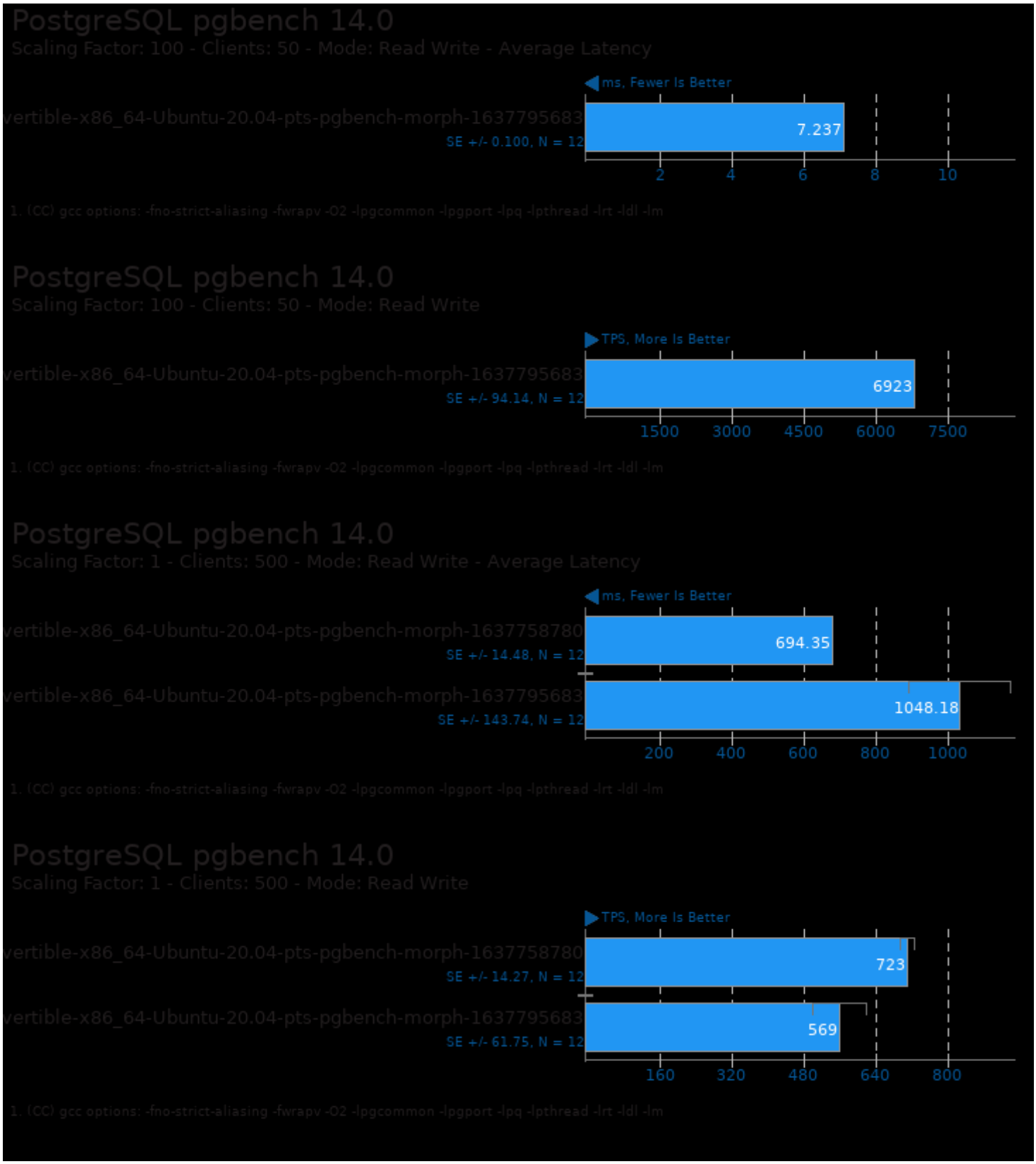
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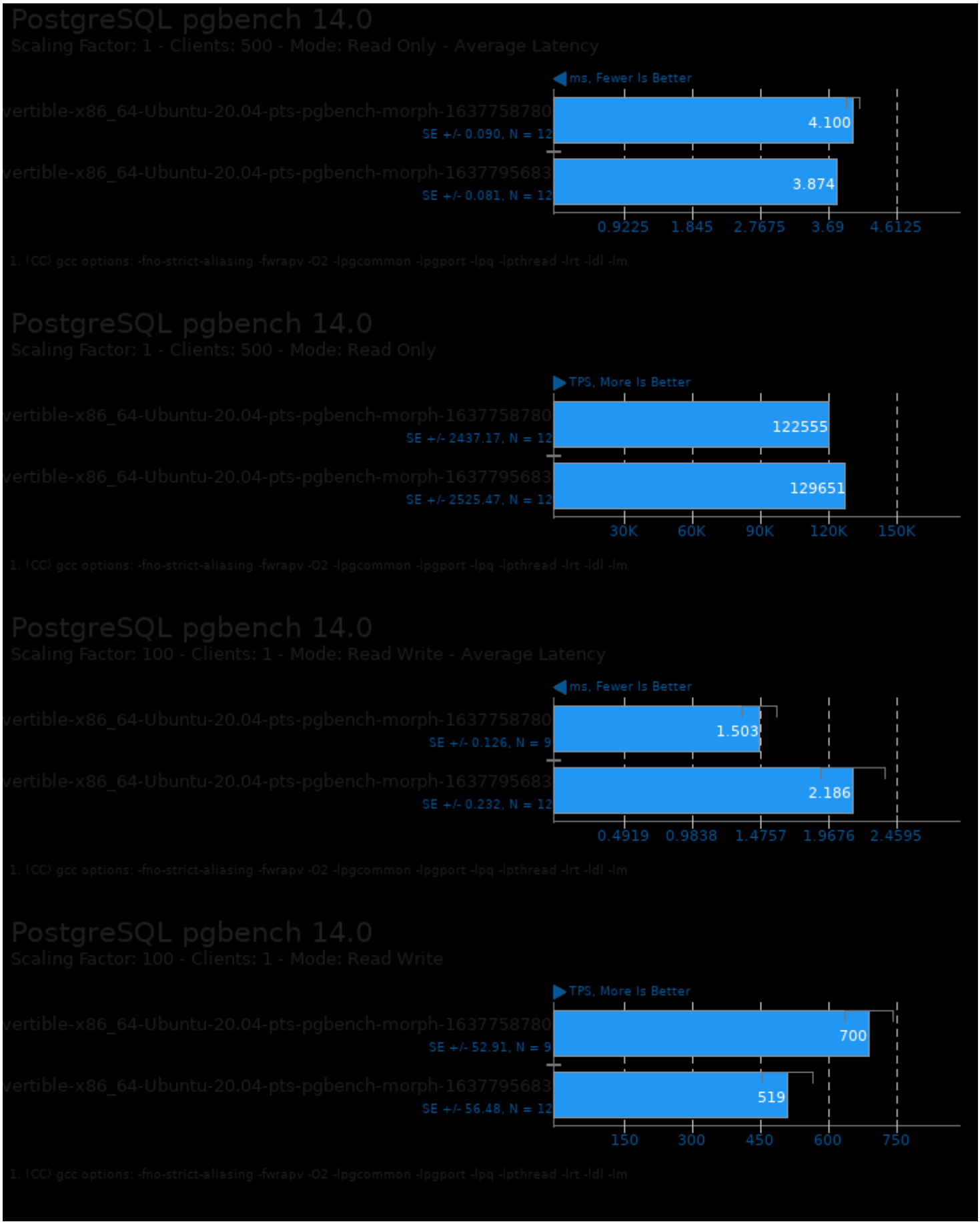
PostgreSQL pgbench - 1 - 1 - Read Only - Average Latency (ms)	**0.045**	**0.028**
Normalized	62.22%	100%
Standard Deviation	0%	2%
PostgreSQL pgbench - 1 - 1 - Read Only (TPS)	**22369**	**35111**
Normalized	63.71%	100%
Standard Deviation	0.5%	1.4%

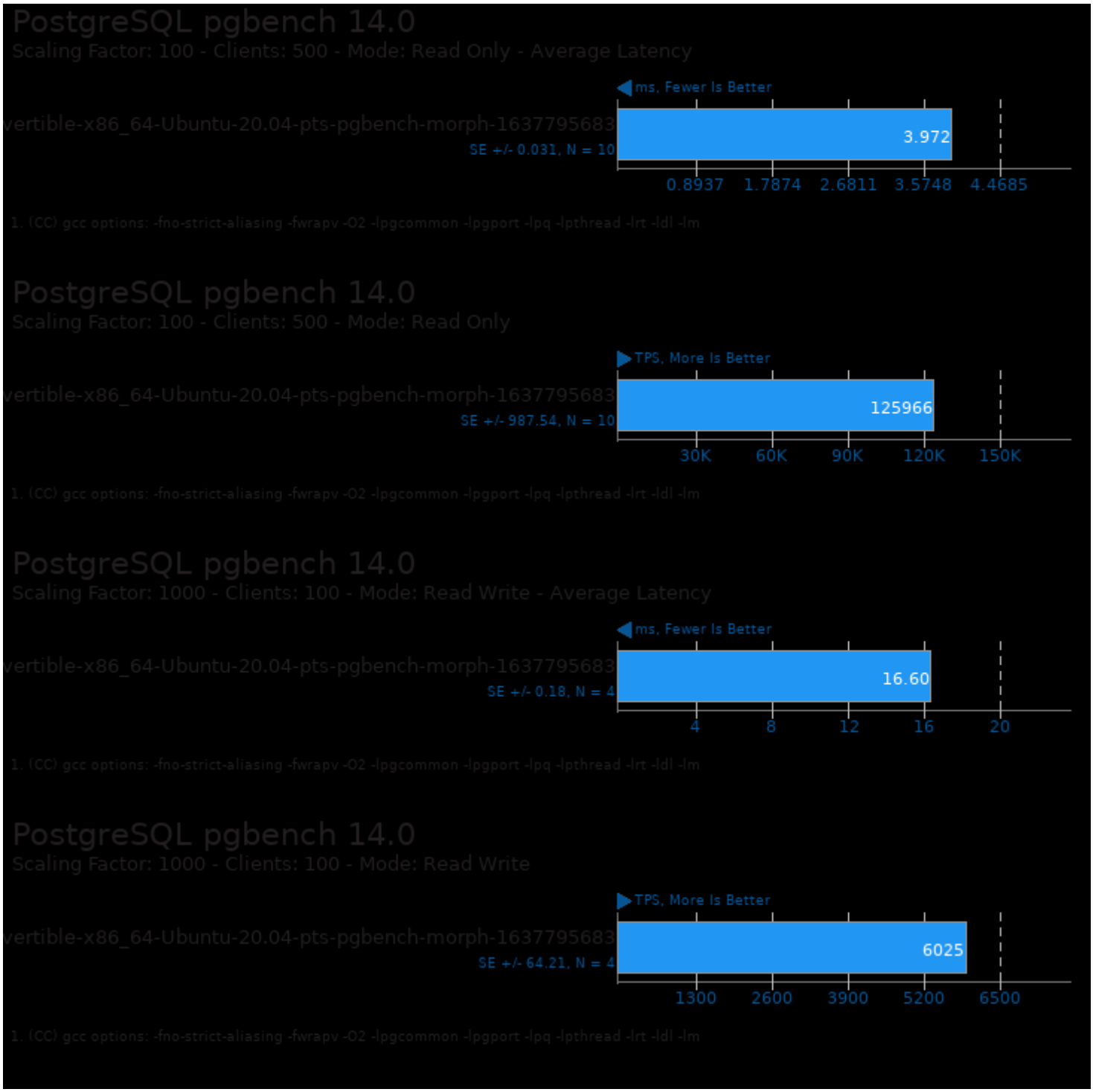

PostgreSQL pgbench 14.0
Scaling Factor: 1000 - Clients: 100 - Mode: Read Only - Average Latency
ms, Fewer Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.012, N = 9
1.272
0.2862 0.5724 0.8586 1.1448 1.431
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1000 - Clients: 100 - Mode: Read Only
TPS, More Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 703.16, N = 9
78634
20K 40K 60K 80K 100K
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
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.128, N = 9
3.788
0.8523 1.7046 2.5569 3.4092 4.2615
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
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 11.67, N = 9
267
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: 1000 - Clients: 1 - Mode: Read Only - Average Latency
ms, Fewer Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 0.005, N = 6
0.182
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.004, N = 9
0.174
0.041
0.082
0.123
0.164
0.205
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
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 143.98, N = 6
5530
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 130.61, N = 9
5759
1200
2400
3600
4800
6000
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 - Average Latency
ms, Fewer Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 1.14, N = 5
40.89
9
18
27
36
45
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
TPS, More Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 177.78, N = 5
6134
1300
2600
3900
5200
6500
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

0xO1-pts-pgbench-morph

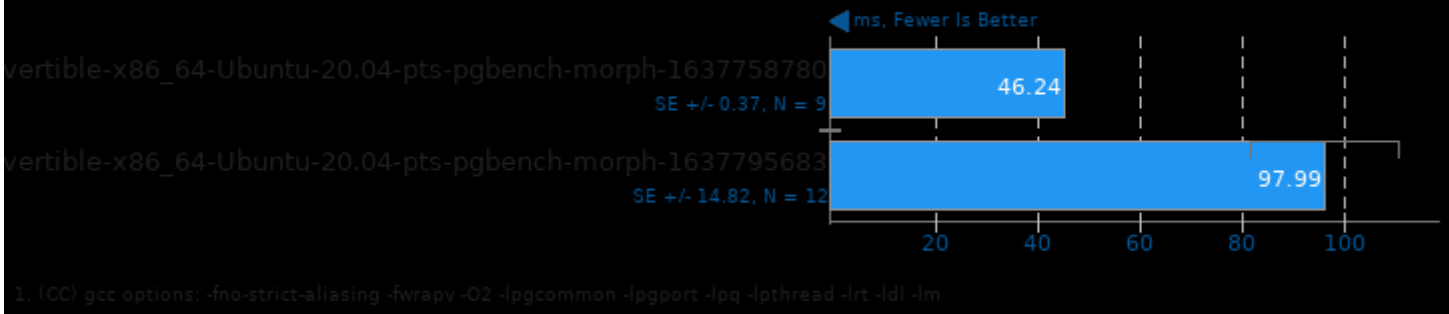



PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 500 - Mode: Read Only - Average Latency
ms, Fewer Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 0.090, N = 12
4.100
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.081, N = 12
3.874
0.9225 1.845 2.7675 3.69 4.6125
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
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 2437.17, N = 12
122555
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 2525.47, N = 12
129651
30K 60K 90K 120K 150K
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
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 0.126, N = 9
1.503
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.232, N = 12
2.186
0.4919 0.9838 1.4757 1.9676 2.4595
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
TPS, More Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 52.91, N = 9
700
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 56.48, N = 12
519
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: 100 - Clients: 500 - Mode: Read Only - Average Latency
ms, Fewer Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.031, N = 10
3.972
0.8937
1.7874
2.6811
3.5748
4.4685
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
TPS, More Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 987.54, N = 10
125966
30K
60K
90K
120K
150K
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
ms, Fewer Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.18, N = 4
16.60
4
8
12
16
20
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
TPS, More Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 64.21, N = 4
6025
1300
2600
3900
5200
6500
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

PostgreSQL pgbench 14.0

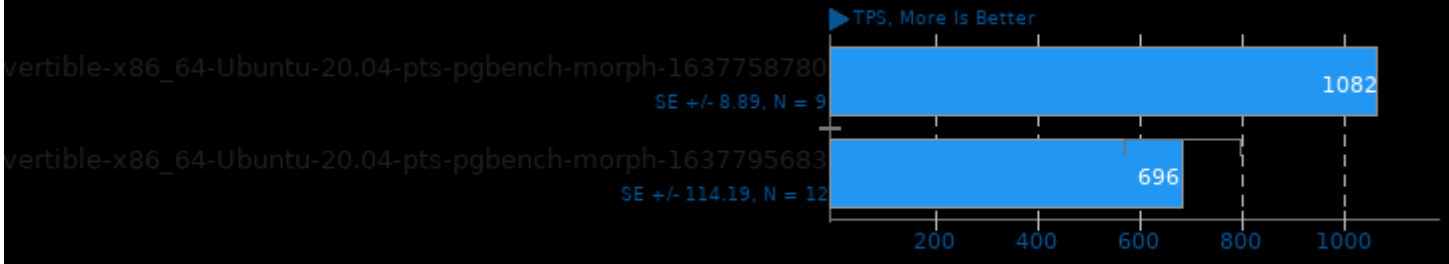
Scaling Factor: 1 - Clients: 50 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 14.0

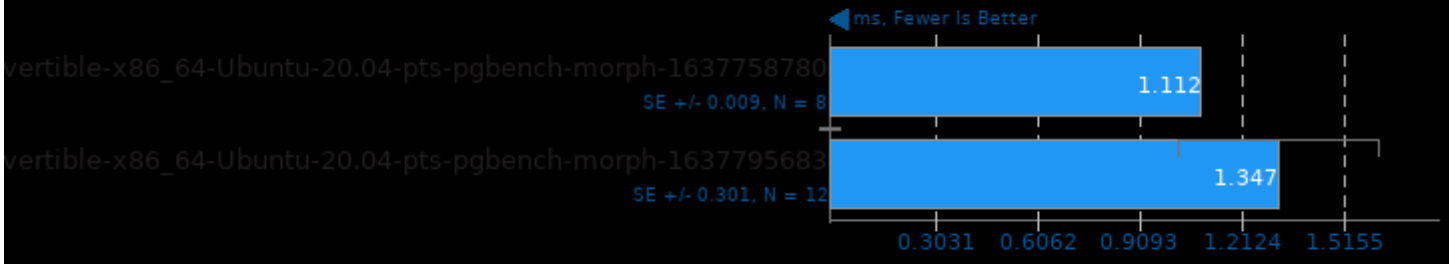
Scaling Factor: 1 - Clients: 50 - Mode: Read Write



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

PostgreSQL pgbench 14.0

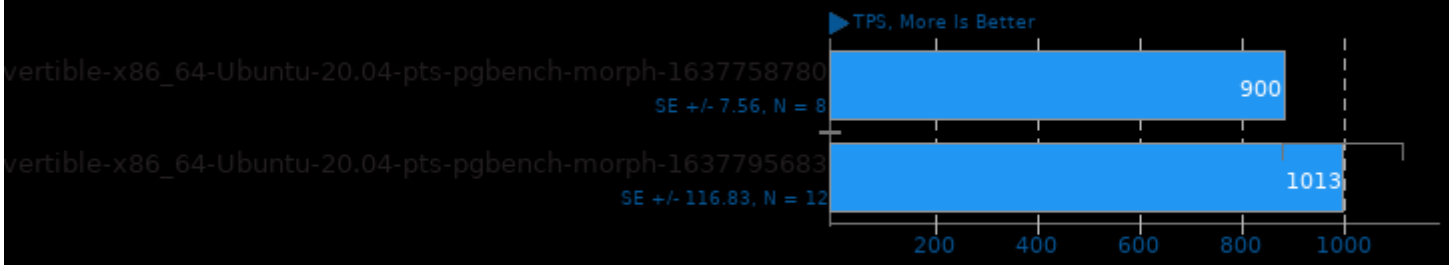
Scaling Factor: 1 - Clients: 1 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 14.0

Scaling Factor: 1 - Clients: 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: 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

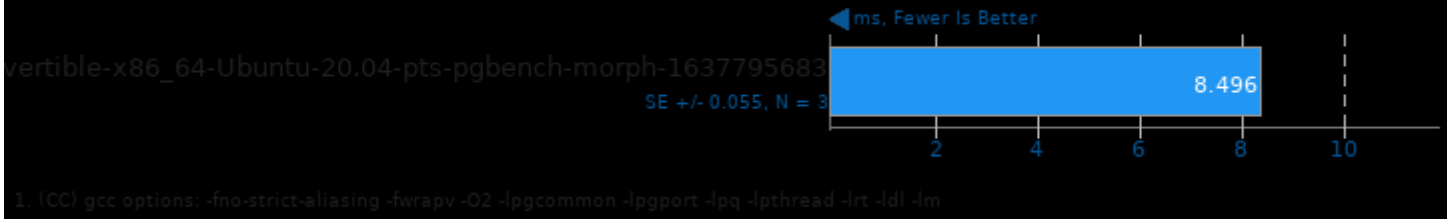
Scaling Factor: 1000 - Clients: 50 - Mode: Read Only



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 - Average Latency



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

PostgreSQL pgbench 14.0

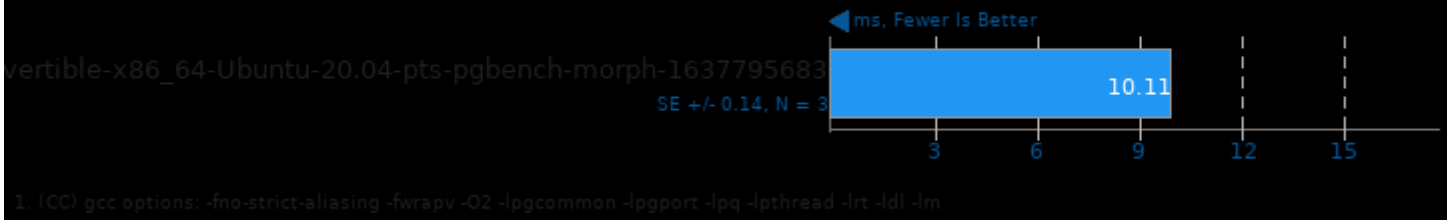
Scaling Factor: 1000 - Clients: 500 - Mode: Read Only



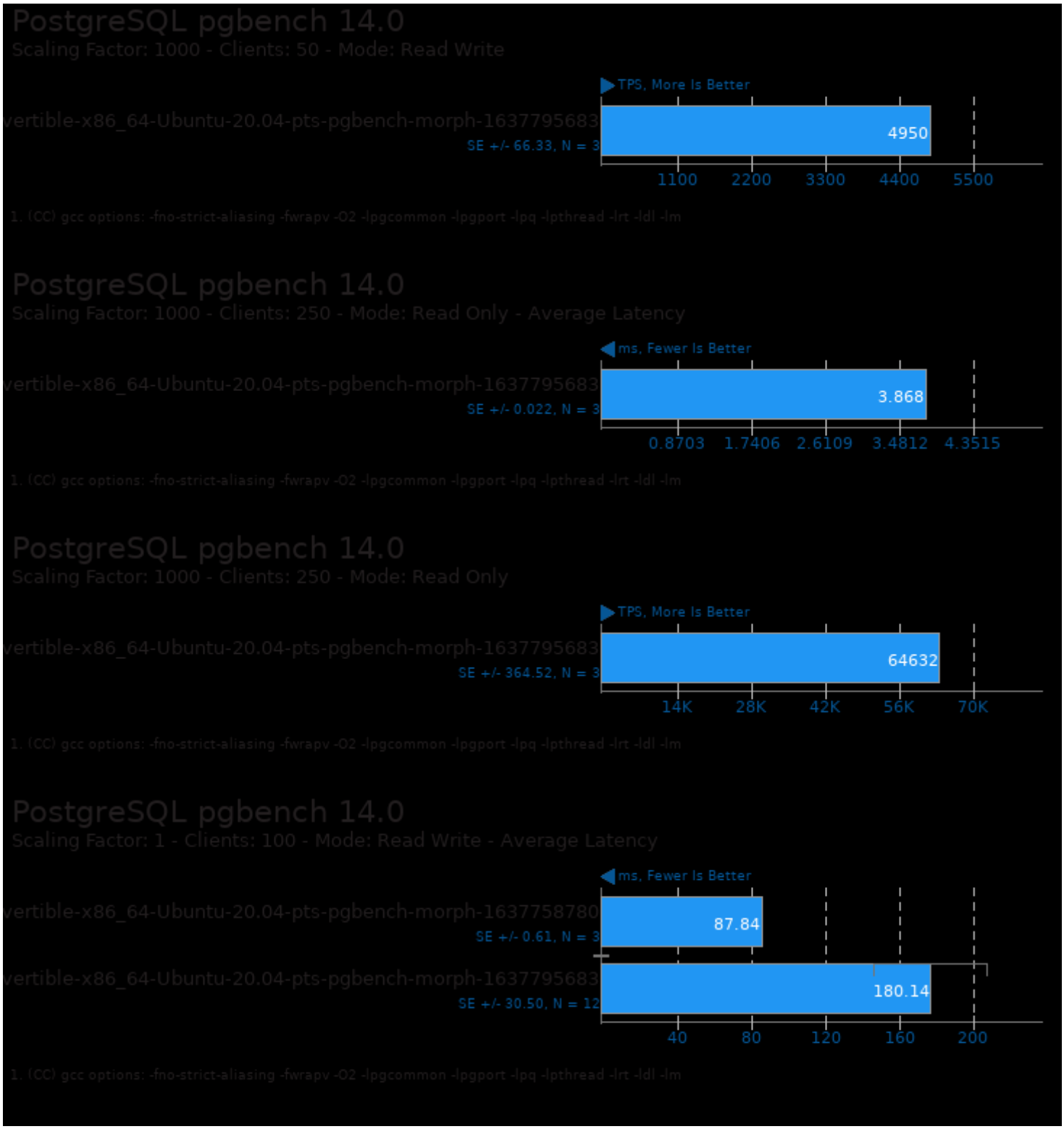
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

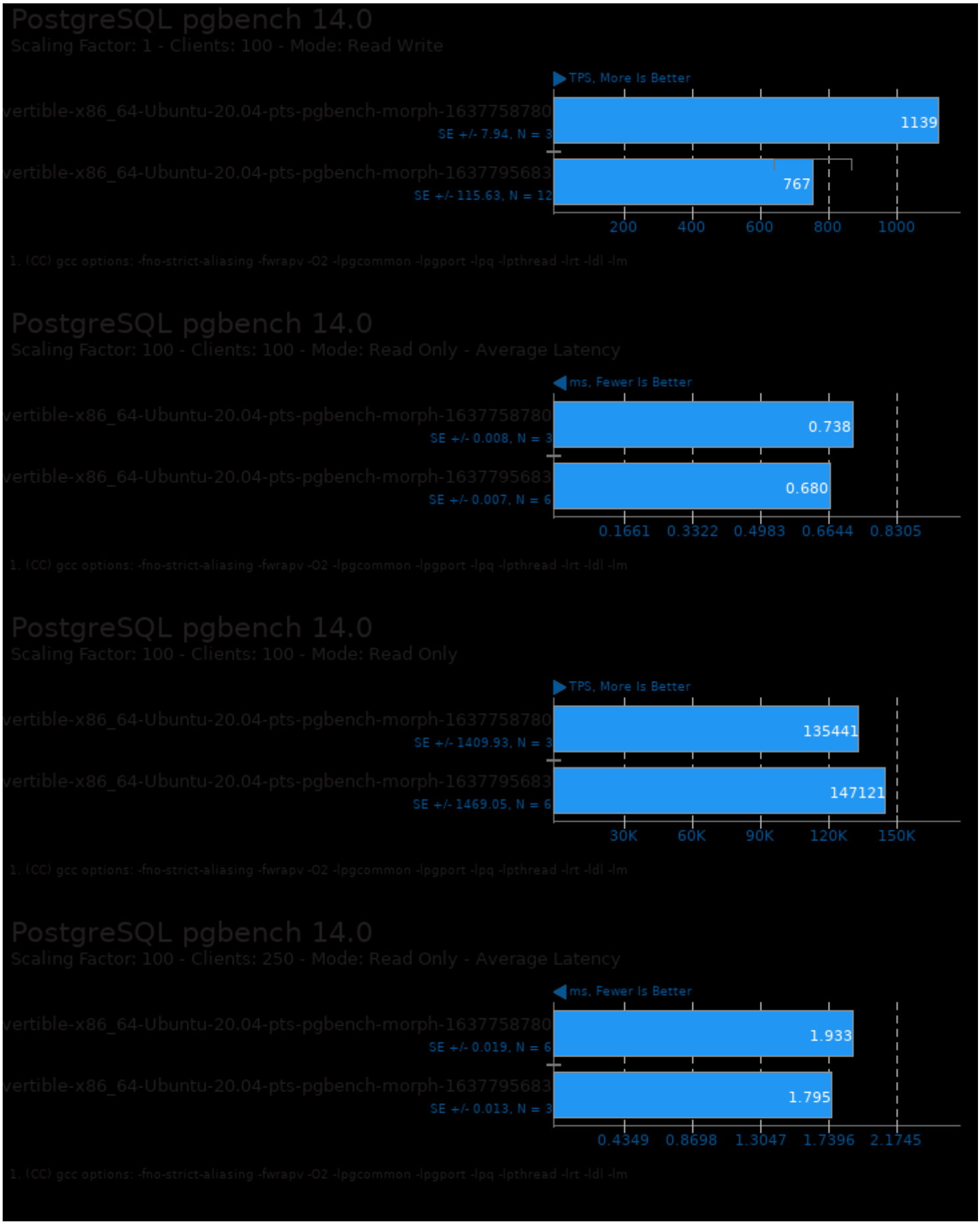
PostgreSQL pgbench 14.0

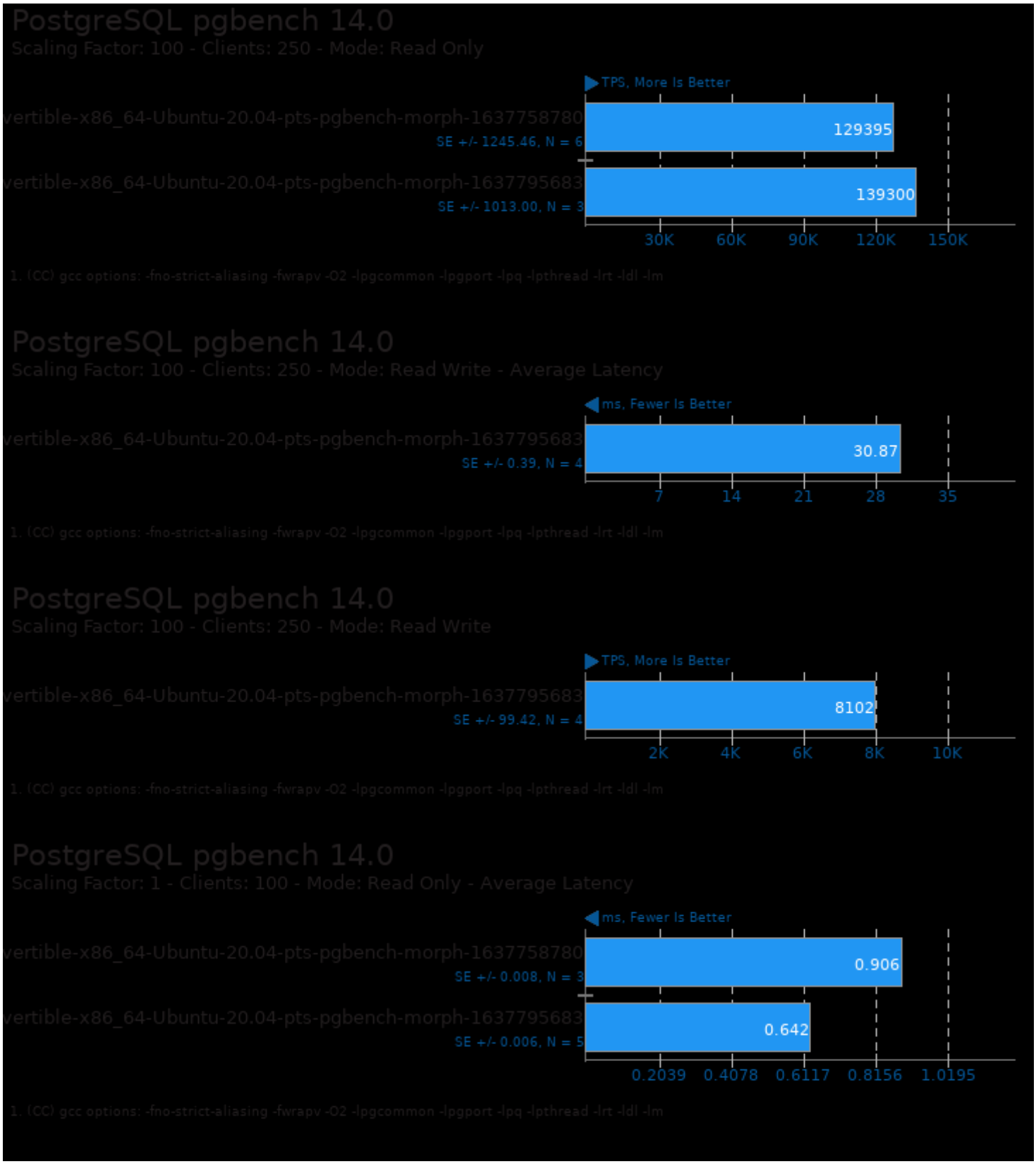
Scaling Factor: 1000 - Clients: 50 - Mode: Read Write - Average Latency

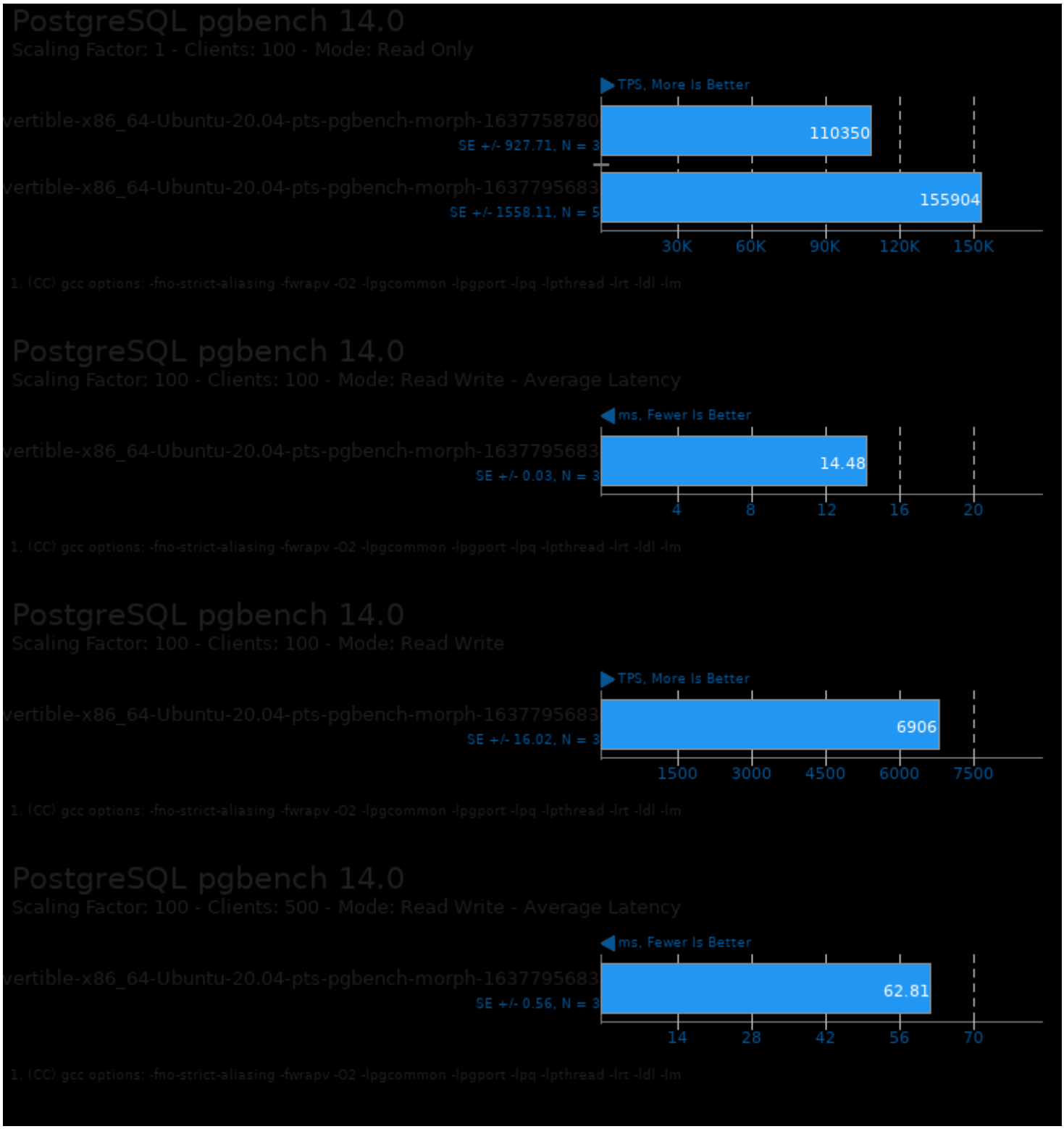


1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

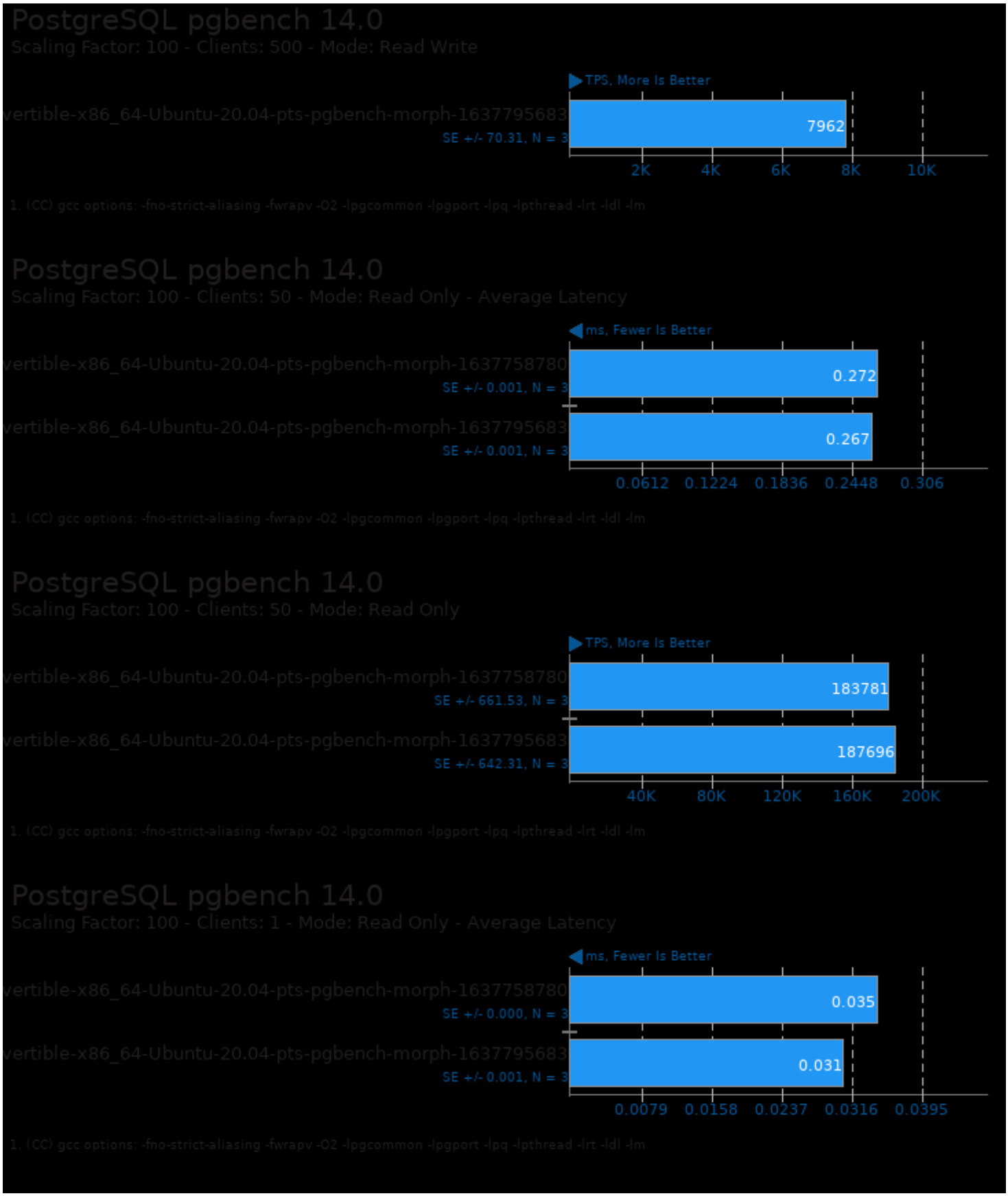

PostgreSQL pgbench 14.0
Scaling Factor: 1000 - Clients: 50 - Mode: Read Write
TPS, More Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 66.33, N = 3
4950
1100
2200
3300
4400
5500
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 1000 - Clients: 250 - Mode: Read Only - Average Latency
ms, Fewer Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.022, N = 3
3.868
0.8703
1.7406
2.6109
3.4812
4.3515
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
TPS, More Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 364.52, N = 3
64632
14K
28K
42K
56K
70K
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
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 0.61, N = 3
87.84
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 30.50, N = 12
180.14
40
80
120
160
200
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

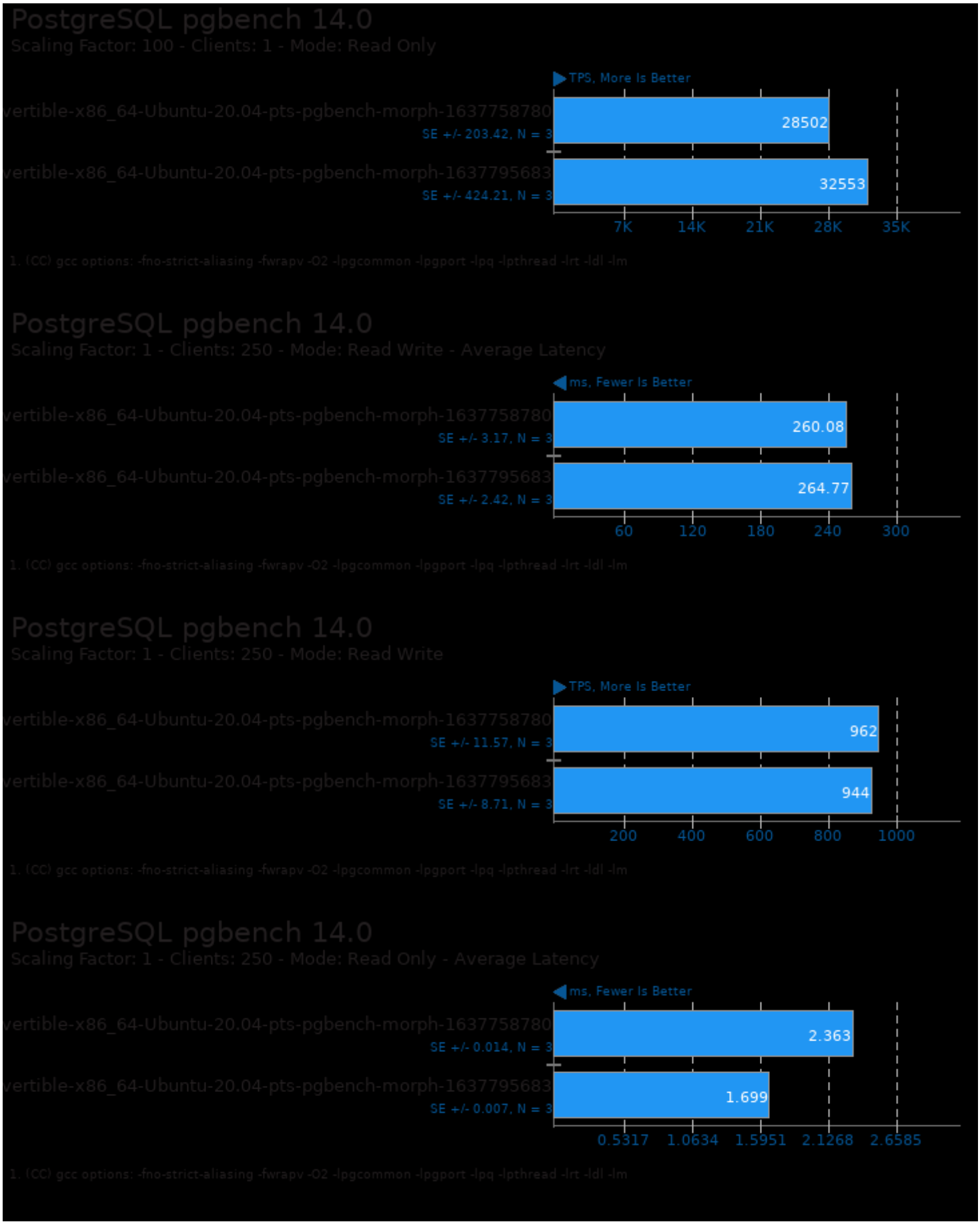

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 100 - Mode: Read Write
TPS, More Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 7.94, N = 3
1139
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 115.63, N = 12
767
200
400
600
800
1000
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm
PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 100 - Mode: Read Only - Average Latency
ms, Fewer Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 0.008, N = 3
0.738
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.007, N = 6
0.680
0.1661
0.3322
0.4983
0.6644
0.8305
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
TPS, More Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 1409.93, N = 3
135441
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 1469.05, N = 6
147121
30K
60K
90K
120K
150K
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
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 0.019, N = 6
1.933
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.013, N = 3
1.795
0.4349
0.8698
1.3047
1.7396
2.1745
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

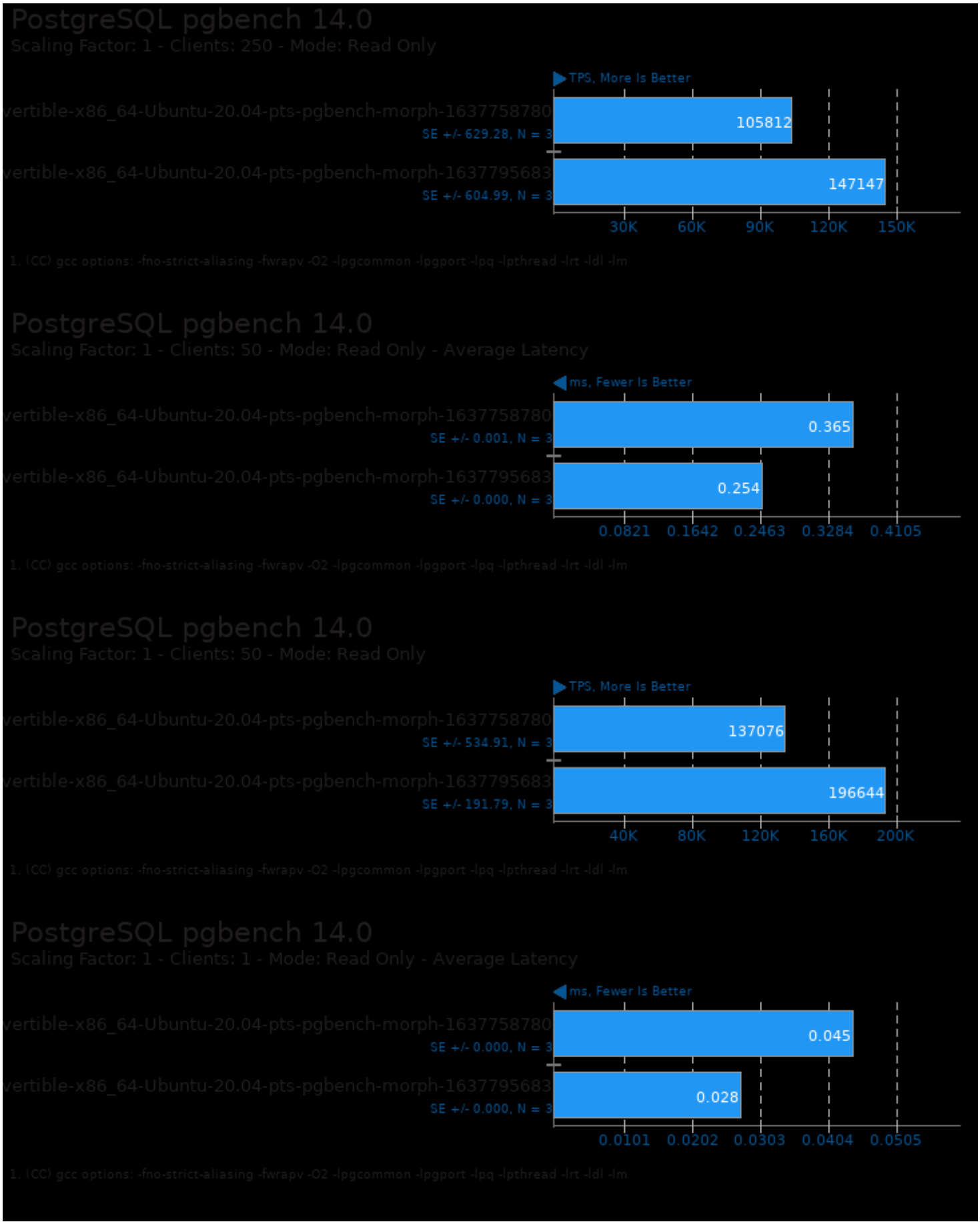

PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 250 - Mode: Read Only
TPS, More Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 1245.46, N = 6
129395
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 1013.00, N = 3
139300
30K
60K
90K
120K
150K
1. (CC) 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
ms, Fewer Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.39, N = 4
30.87
7
14
21
28
35
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
TPS, More Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 99.42, N = 4
8102
2K
4K
6K
8K
10K
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
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 0.008, N = 3
0.906
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.006, N = 5
0.642
0.2039
0.4078
0.6117
0.8156
1.0195
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

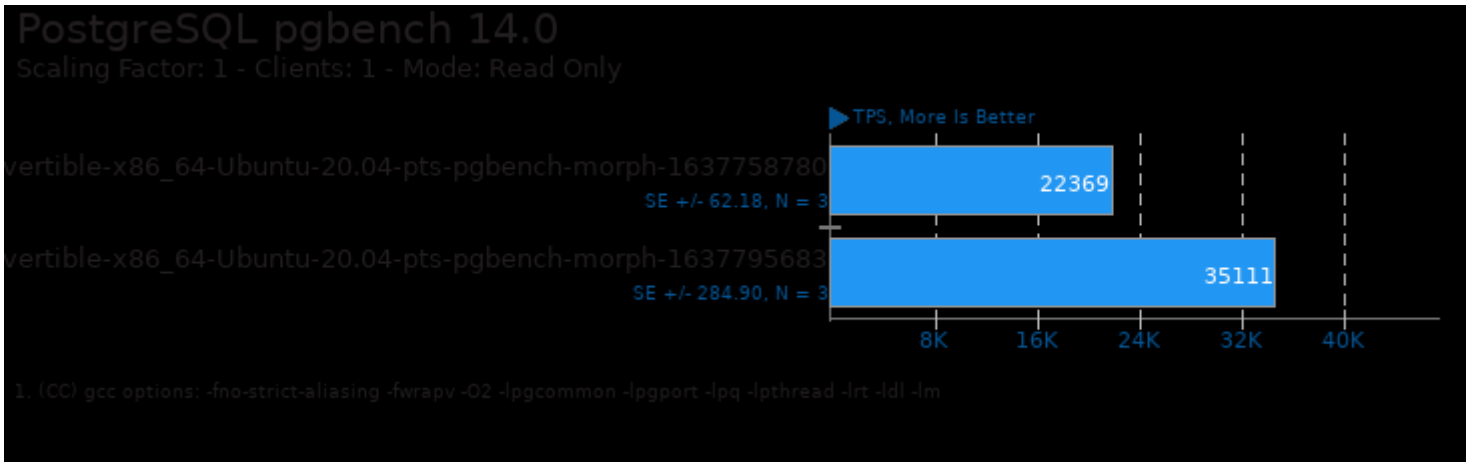

PostgreSQL pgbench 14.0
Scaling Factor: 1 - Clients: 100 - Mode: Read Only
TPS, More Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 927.71, N = 3
110350
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 1558.11, N = 5
155904
30K
60K
90K
120K
150K
1. (CC) gcc 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
ms, Fewer Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.03, N = 3
14.48
4
8
12
16
20
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
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 16.02, N = 3
6906
1500
3000
4500
6000
7500
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
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.56, N = 3
62.81
14
28
42
56
70
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm

0xO1-pts-pgbench-morph




PostgreSQL pgbench 14.0
Scaling Factor: 100 - Clients: 1 - Mode: Read Only
TPS, More Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 203.42, N = 3
28502
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 424.21, N = 3
32553
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: 1 - Clients: 250 - Mode: Read Write - Average Latency
ms, Fewer Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 3.17, N = 3
260.08
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 2.42, N = 3
264.77
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
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 11.57, N = 3
962
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 8.71, N = 3
944
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: 250 - Mode: Read Only - Average Latency
ms, Fewer Is Better
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 0.014, N = 3
2.363
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.007, N = 3
1.699
0.5317
1.0634
1.5951
2.1268
2.6585
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
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 629.28, N = 3
105812
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 604.99, N = 3
147147
30K
60K
90K
120K
150K
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
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 0.001, N = 3
0.365
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.000, N = 3
0.254
0.0821
0.1642
0.2463
0.3284
0.4105
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
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 534.91, N = 3
137076
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 191.79, N = 3
196644
40K
80K
120K
160K
200K
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
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637758780
SE +/- 0.000, N = 3
0.045
vertible-x86_64-Ubuntu-20.04-pts-pgbench-morph-1637795683
SE +/- 0.000, N = 3
0.028
0.0101
0.0202
0.0303
0.0404
0.0505
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lrt -ldl -lm



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