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pgbench ryzen

AMD Ryzen 9 5900HX testing with a ASUS G513QY v1.0 (G513QY.318 BIOS) and ASUS AMD Cezanne 512MB on Ubuntu 22.10 via the Phoronix Test Suite.

Automated Executive Summary

a had the most wins, coming in first place for 48% of the tests.

Based on the geometric mean of all complete results, the fastest (a) was 1.015x the speed of the slowest (c). b was 0.993x the speed of a and c was 0.992x the speed of b.

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

PostgreSQL (Scaling Factor: 1000 - Clients: 1 - Mode: Read Write) at 1.337x
PostgreSQL (Scaling Factor: 1000 - Clients: 1 - Mode: Read Write - Average Latency) at 1.337x
PostgreSQL (Scaling Factor: 100 - Clients: 500 - Mode: Read Write - Average Latency) at 1.231x
PostgreSQL (Scaling Factor: 100 - Clients: 500 - Mode: Read Write) at 1.231x
PostgreSQL (Scaling Factor: 1000 - Clients: 250 - Mode: Read Write - Average Latency) at 1.22x
PostgreSQL (Scaling Factor: 1000 - Clients: 250 - Mode: Read Write) at 1.22x
PostgreSQL (Scaling Factor: 1 - Clients: 1 - Mode: Read Write - Average Latency) at 1.209x
PostgreSQL (Scaling Factor: 1 - Clients: 1 - Mode: Read Write) at 1.208x
PostgreSQL (Scaling Factor: 1000 - Clients: 100 - Mode: Read Write) at 1.175x

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PostgreSQL (Scaling Factor: 1000 - Clients: 100 - Mode: Read Write - Average Latency) at 1.175x.

Test Systems:

a

b

c

Processor: AMD Ryzen 9 5900HX @ 4.89GHz (8 Cores / 16 Threads), Motherboard: ASUS G513QY v1.0 (G513QY.318 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 16GB, Disk: 512GB SAMSUNG MZVLQ512HBLU-00B00, Graphics: ASUS AMD Cezanne 512MB (2500/1000MHz), Audio: AMD Navi 21/23, Monitor: LQ156M1JW25, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Ubuntu 22.10, Kernel: 5.19.0-26-generic (x86_64), Desktop: GNOME Shell 43.0, Display Server: X Server 1.21.1.4 + Wayland, OpenGL: 4.6 Mesa 22.2.1 (LLVM 15.0.2 DRM 3.47), Vulkan: 1.3.224, Compiler: GCC 12.2.0, 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-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,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-defaulted --enable-offload-targets=nvptx-none=/build/gcc-12-U8K4Qv/gcc-12-12.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-12-U8K4Qv/gcc-12-12.2.0/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-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: amd-pstate schedutil (Boost: Enabled) - Platform Profile: balanced - CPU Microcode: 0xa50000c - ACPI Profile: balanced
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

	a	b	c
PostgreSQL - 1 - 1 - Read Only (TPS)	**70659**	70084	**64768**
Normalized	100%	99.19%	91.66%
PostgreSQL - 1 - 1 - Read Only - Average Latency (ms)	**0.014**	**0.014**	**0.015**
Normalized	100%	100%	93.33%
PostgreSQL - 1 - 1 - Read Write (TPS)	**1815**	1770	**1502**
Normalized	100%	97.52%	82.75%
PostgreSQL - 1 - 1 - Read Write - Average Latency (ms)	**0.551**	0.565	**0.666**
Normalized	100%	97.52%	82.73%
PostgreSQL - 1 - 50 - Read Only (TPS)	**675432**	**631133**	646672
Normalized	100%	93.44%	95.74%

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PostgreSQL - 1 - 50 - Read Only - Average Latency (ms)	**0.074**	**0.079**	0.077
Normalized	100%	93.67%	96.1%
PostgreSQL - 1 - 100 - Read Only (TPS)	**651264**	641437	**637279**
Normalized	100%	98.49%	97.85%
PostgreSQL - 1 - 100 - Read Only - Average Latency (ms)	**0.154**	0.156	**0.157**
Normalized	100%	98.72%	98.09%
PostgreSQL - 1 - 250 - Read Only (TPS)	**630566**	**618466**	629730
Normalized	100%	98.08%	99.87%
PostgreSQL - 1 - 250 - Read Only - Average Latency (ms)	**0.396**	**0.404**	0.397
Normalized	100%	98.02%	99.75%
PostgreSQL - 1 - 50 - Read Write (TPS)	1336	**1338**	**1314**
Normalized	99.85%	100%	98.21%
PostgreSQL - 1 - 50 - Read Write - Average Latency (ms)	37.434	**37.362**	**38.052**
Normalized	99.81%	100%	98.19%
PostgreSQL - 1 - 500 - Read Only (TPS)	543819	**551696**	**536421**
Normalized	98.57%	100%	97.23%
PostgreSQL - 1 - 500 - Read Only - Average Latency (ms)	0.919	**0.906**	**0.932**
Normalized	98.59%	100%	97.21%
PostgreSQL - 100 - 1 - Read Only (TPS)	**64570**	**63666**	63897
Normalized	100%	98.6%	98.96%
PostgreSQL - 100 - 1 - Read Only - Average Latency (ms)	**0.015**	**0.016**	**0.016**
Normalized	100%	93.75%	93.75%
PostgreSQL - 1 - 100 - Read Write (TPS)	**1234**	**1234**	**1233**
Normalized	100%	100%	99.92%
PostgreSQL - 1 - 100 - Read Write - Average Latency (ms)	**81.054**	81.07	**81.074**
Normalized	100%	99.98%	99.98%
PostgreSQL - 1 - 250 - Read Write (TPS)	911	**914**	**883**
Normalized	99.67%	100%	96.61%
PostgreSQL - 1 - 250 - Read Write - Average Latency (ms)	274.549	**273.512**	**283.035**
Normalized	99.62%	100%	96.64%
PostgreSQL - 1 - 500 - Read Write (TPS)	**547**	567	**611**
Normalized	89.53%	92.8%	100%
PostgreSQL - 1 - 500 - Read Write - Average Latency (ms)	**914.362**	882.298	**817.971**
Normalized	89.46%	92.71%	100%
PostgreSQL - 100 - 1 - Read Write (TPS)	1354	**1371**	**1316**
Normalized	98.76%	100%	95.99%
PostgreSQL - 100 - 1 - Read Write - Average Latency (ms)	0.739	**0.729**	**0.76**
Normalized	98.65%	100%	95.92%
PostgreSQL - 100 - 50 - Read Only (TPS)	567389	**566343**	**576618**
Normalized	98.4%	98.22%	100%

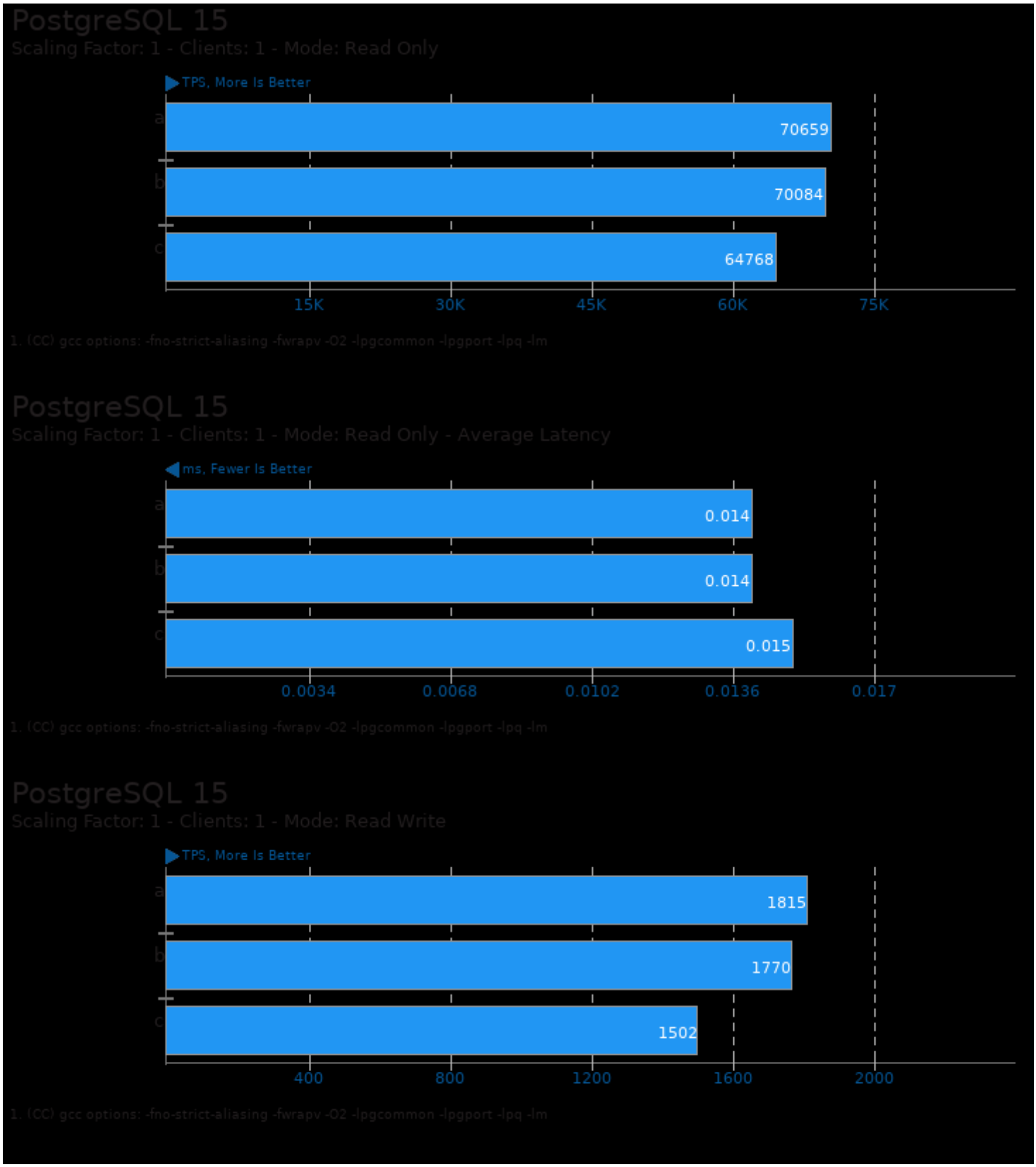
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PostgreSQL - 100 - 50 - Read Only - Average Latency (ms)	0.088	0.088	0.087
Normalized	98.86%	98.86%	100%
PostgreSQL - 1000 - 1 - Read Only (TPS)	11626	12203	11795
Normalized	95.27%	100%	96.66%
PostgreSQL - 1000 - 1 - Read Only - Average Latency (ms)	0.086	0.082	0.085
Normalized	95.35%	100%	96.47%
PostgreSQL - 100 - 100 - Read Only (TPS)	611856	593000	595030
Normalized	100%	96.92%	97.25%
PostgreSQL - 100 - 100 - Read Only - Average Latency (ms)	0.163	0.169	0.168
Normalized	100%	96.45%	97.02%
PostgreSQL - 100 - 250 - Read Only (TPS)	576003	565703	576388
Normalized	99.93%	98.15%	100%
PostgreSQL - 100 - 250 - Read Only - Average Latency (ms)	0.434	0.442	0.434
Normalized	100%	98.19%	100%
PostgreSQL - 100 - 50 - Read Write (TPS)	13843	14062	13064
Normalized	98.44%	100%	92.9%
PostgreSQL - 100 - 50 - Read Write - Average Latency (ms)	3.612	3.556	3.827
Normalized	98.45%	100%	92.92%
PostgreSQL - 100 - 500 - Read Only (TPS)	574095	575202	579050
Normalized	99.14%	99.34%	100%
PostgreSQL - 100 - 500 - Read Only - Average Latency (ms)	0.871	0.869	0.863
Normalized	99.08%	99.31%	100%
PostgreSQL - 1000 - 1 - Read Write (TPS)	276	365	369
Normalized	74.8%	98.92%	100%
PostgreSQL - 1000 - 1 - Read Write - Average Latency (ms)	3.623	2.738	2.71
Normalized	74.8%	98.98%	100%
PostgreSQL - 1000 - 50 - Read Only (TPS)	100956	102511	102700
Normalized	98.3%	99.82%	100%
PostgreSQL - 1000 - 50 - Read Only - Average Latency (ms)	0.495	0.488	0.487
Normalized	98.38%	99.8%	100%
PostgreSQL - 100 - 100 - Read Write (TPS)	4775	4871	4777
Normalized	98.03%	100%	98.07%
PostgreSQL - 100 - 100 - Read Write - Average Latency (ms)	20.944	20.528	20.933
Normalized	98.01%	100%	98.07%
PostgreSQL - 100 - 250 - Read Write (TPS)	5654	5607	5960
Normalized	94.87%	94.08%	100%
PostgreSQL - 100 - 250 - Read Write - Average Latency (ms)	44.219	44.583	41.944
Normalized	94.86%	94.08%	100%
PostgreSQL - 100 - 500 - Read Write (TPS)	5846	7196	6997
Normalized	81.24%	100%	97.23%

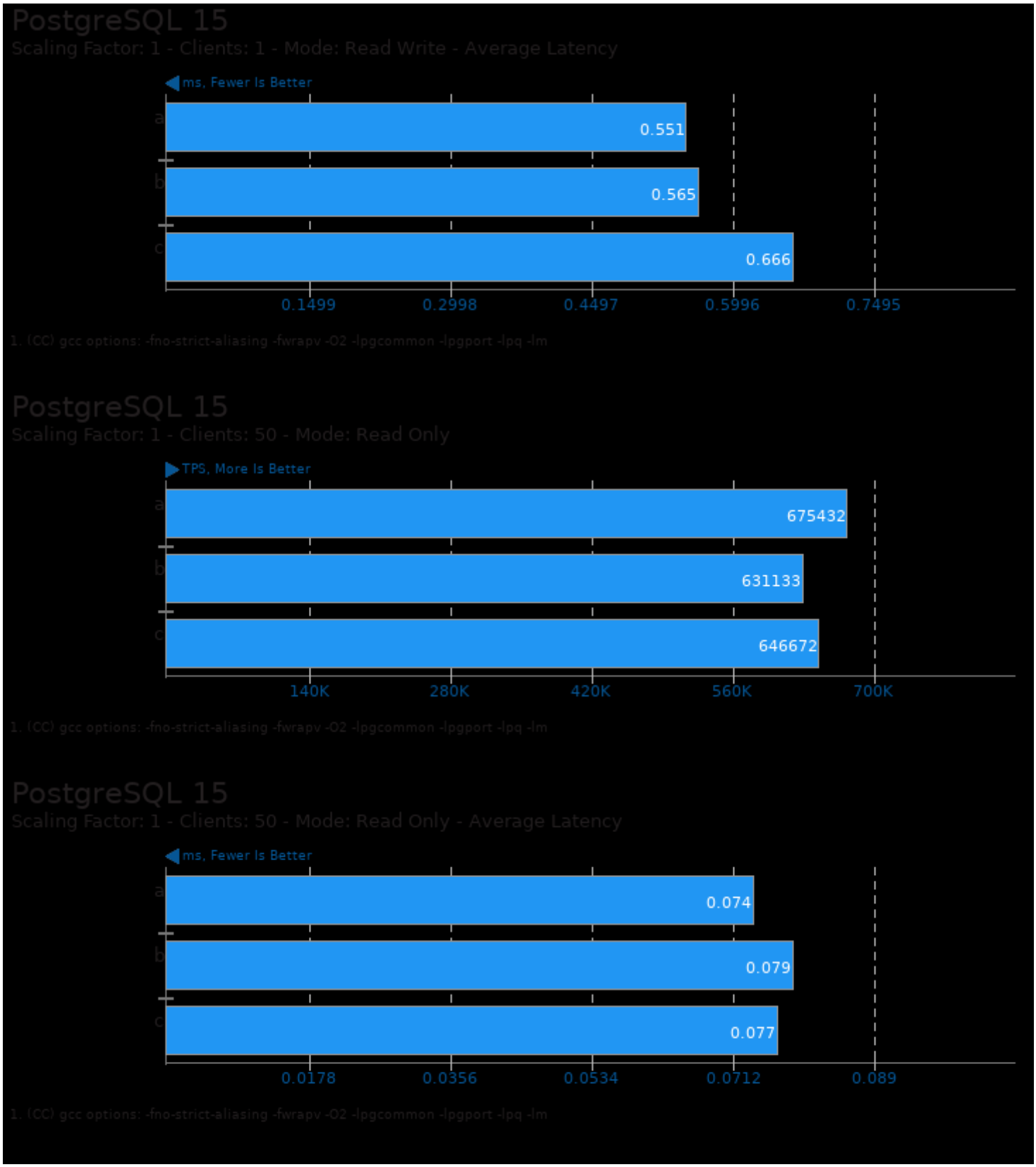
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PostgreSQL - 100 - 500 - Read Write - Average Latency (ms)	**85.527**	**69.479**	71.464
Normalized	81.24%	100%	97.22%
PostgreSQL - 1000 - 100 - Read Only (TPS)	**97862**	101937	**102440**
Normalized	95.53%	99.51%	100%
PostgreSQL - 1000 - 100 - Read Only - Average Latency (ms)	**1.022**	0.981	**0.976**
Normalized	95.5%	99.49%	100%
PostgreSQL - 1000 - 250 - Read Only (TPS)	**87976**	**84209**	85803
Normalized	100%	95.72%	97.53%
PostgreSQL - 1000 - 250 - Read Only - Average Latency (ms)	**2.842**	**2.969**	2.914
Normalized	100%	95.72%	97.53%
PostgreSQL - 1000 - 50 - Read Write (TPS)	**2889**	2594	**2591**
Normalized	100%	89.79%	89.69%
PostgreSQL - 1000 - 50 - Read Write - Average Latency (ms)	**17.308**	19.277	**19.295**
Normalized	100%	89.79%	89.7%
PostgreSQL - 1000 - 500 - Read Only (TPS)	**80853**	**72844**	79364
Normalized	100%	90.09%	98.16%
PostgreSQL - 1000 - 500 - Read Only - Average Latency (ms)	**6.184**	**6.864**	6.3
Normalized	100%	90.09%	98.16%
PostgreSQL - 1000 - 100 - Read Write (TPS)	**3411**	2936	**2903**
Normalized	100%	86.07%	85.11%
PostgreSQL - 1000 - 100 - Read Write - Average Latency (ms)	**29.314**	34.06	**34.443**
Normalized	100%	86.07%	85.11%
PostgreSQL - 1000 - 250 - Read Write (TPS)	**3137**	**2572**	2599
Normalized	100%	81.99%	82.85%
PostgreSQL - 1000 - 250 - Read Write - Average Latency (ms)	**79.685**	**97.218**	96.192
Normalized	100%	81.97%	82.84%
PostgreSQL - 1000 - 500 - Read Write (TPS)	**3131**	2899	**2740**
Normalized	100%	92.59%	87.51%
PostgreSQL - 1000 - 500 - Read Write - Average Latency (ms)	**159.679**	172.482	**182.461**
Normalized	100%	92.58%	87.51%

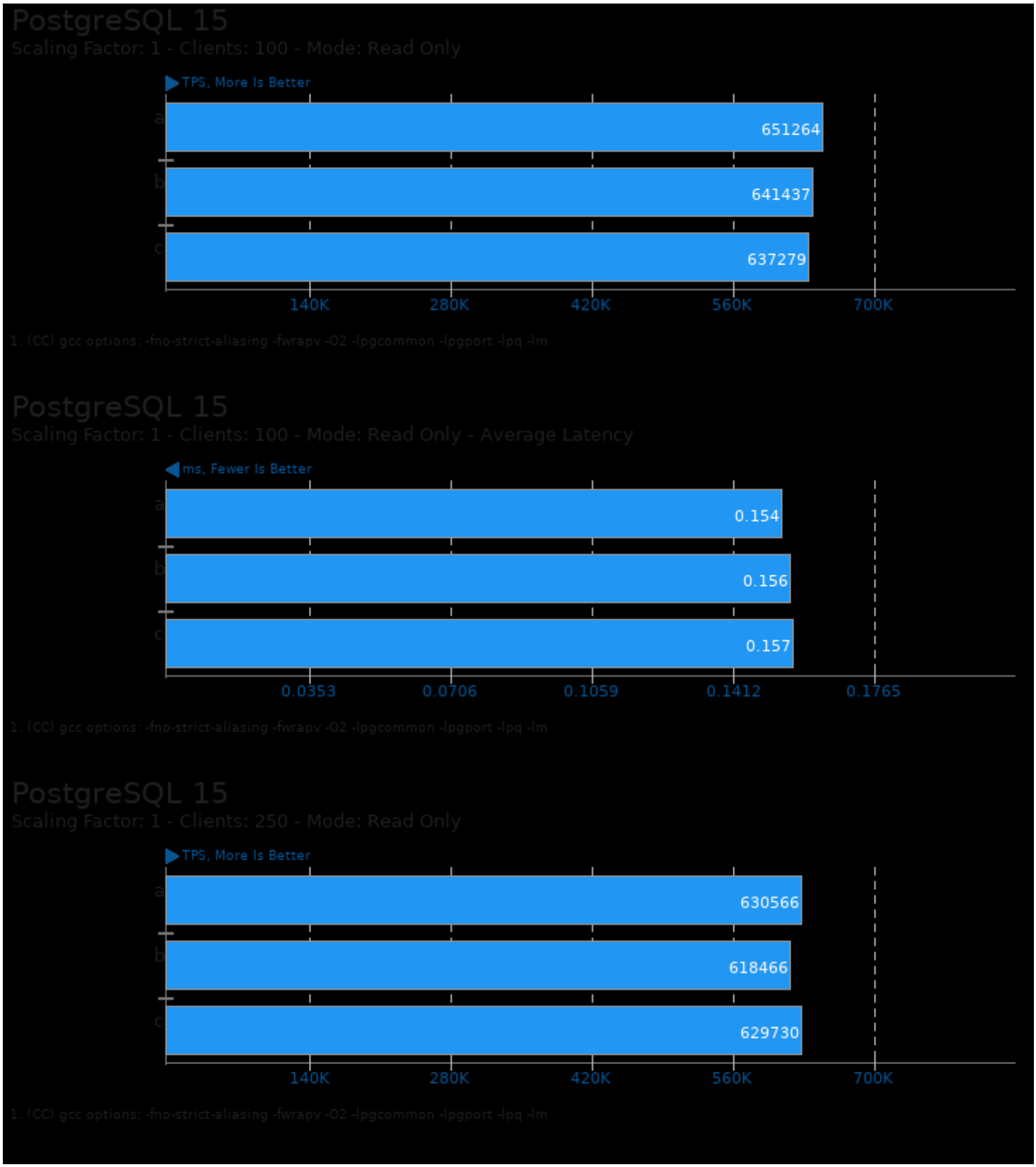
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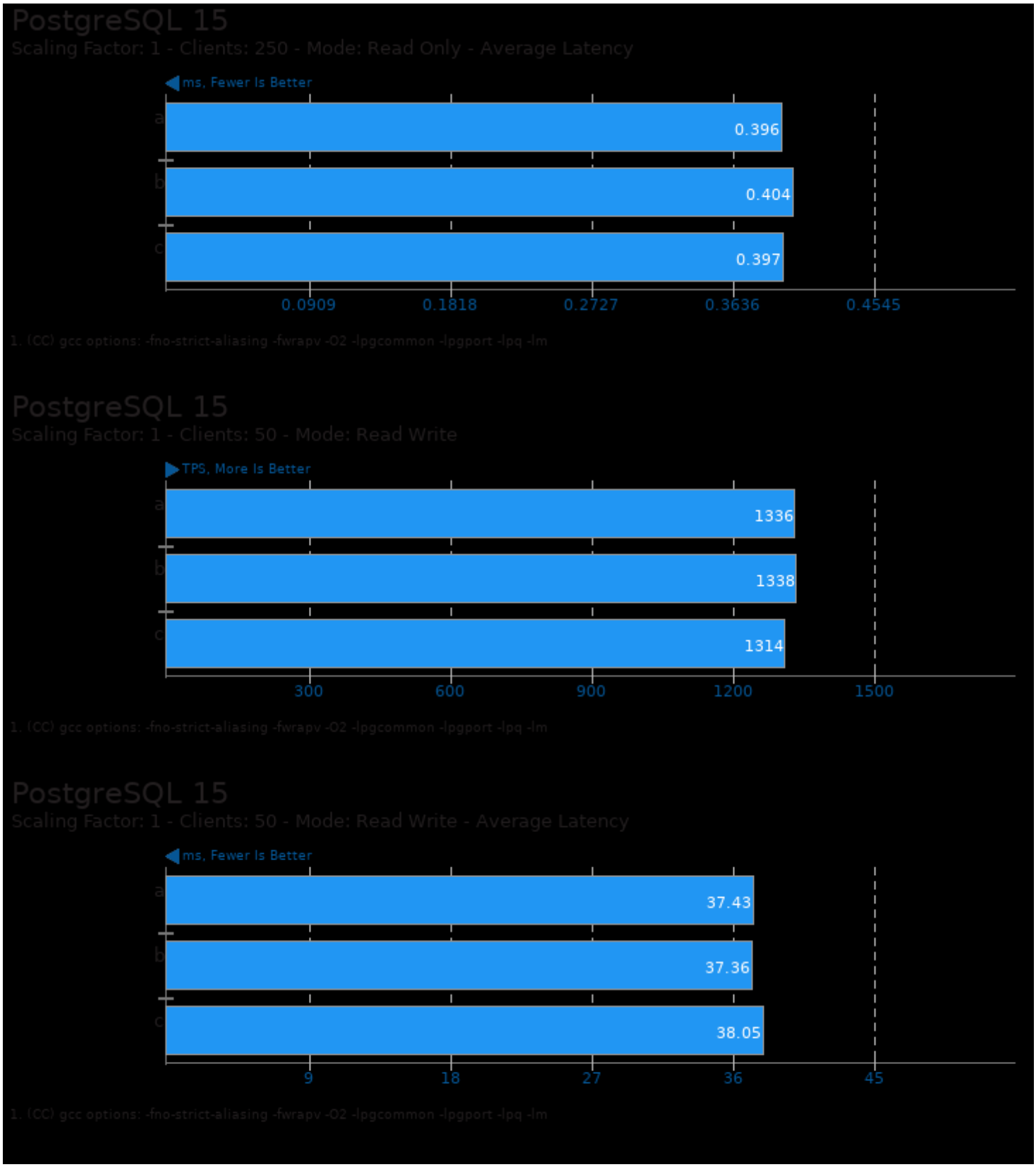


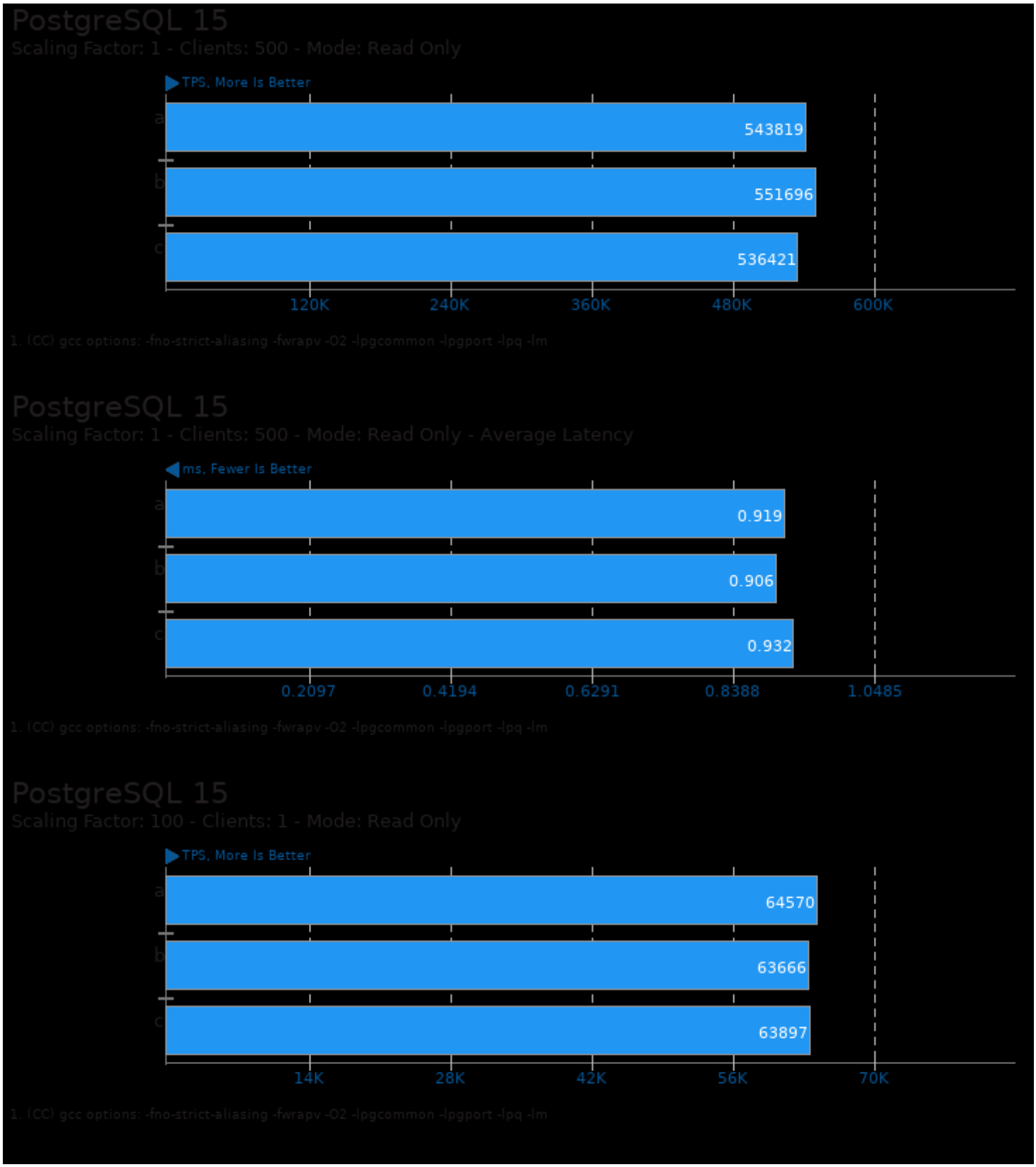
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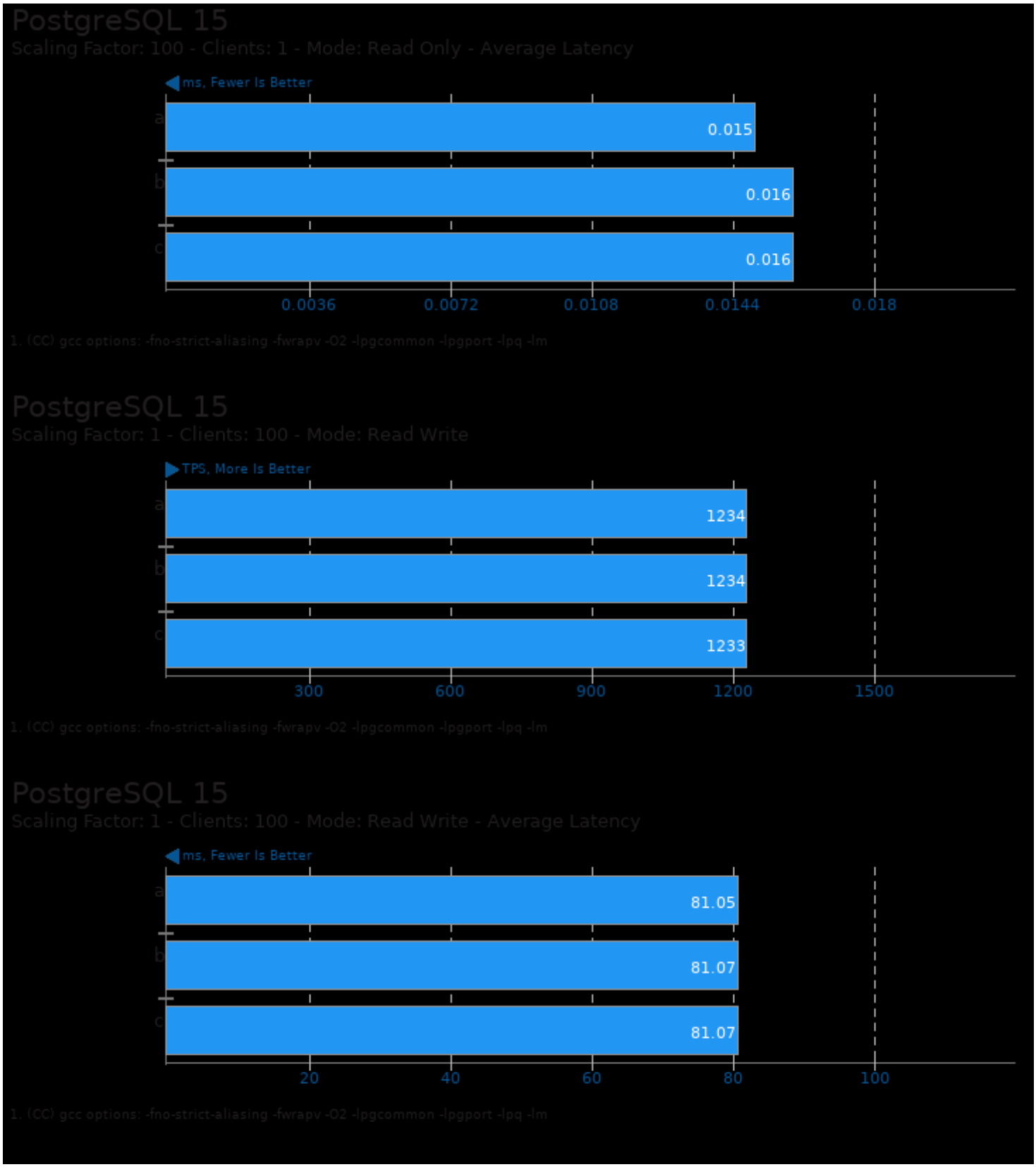


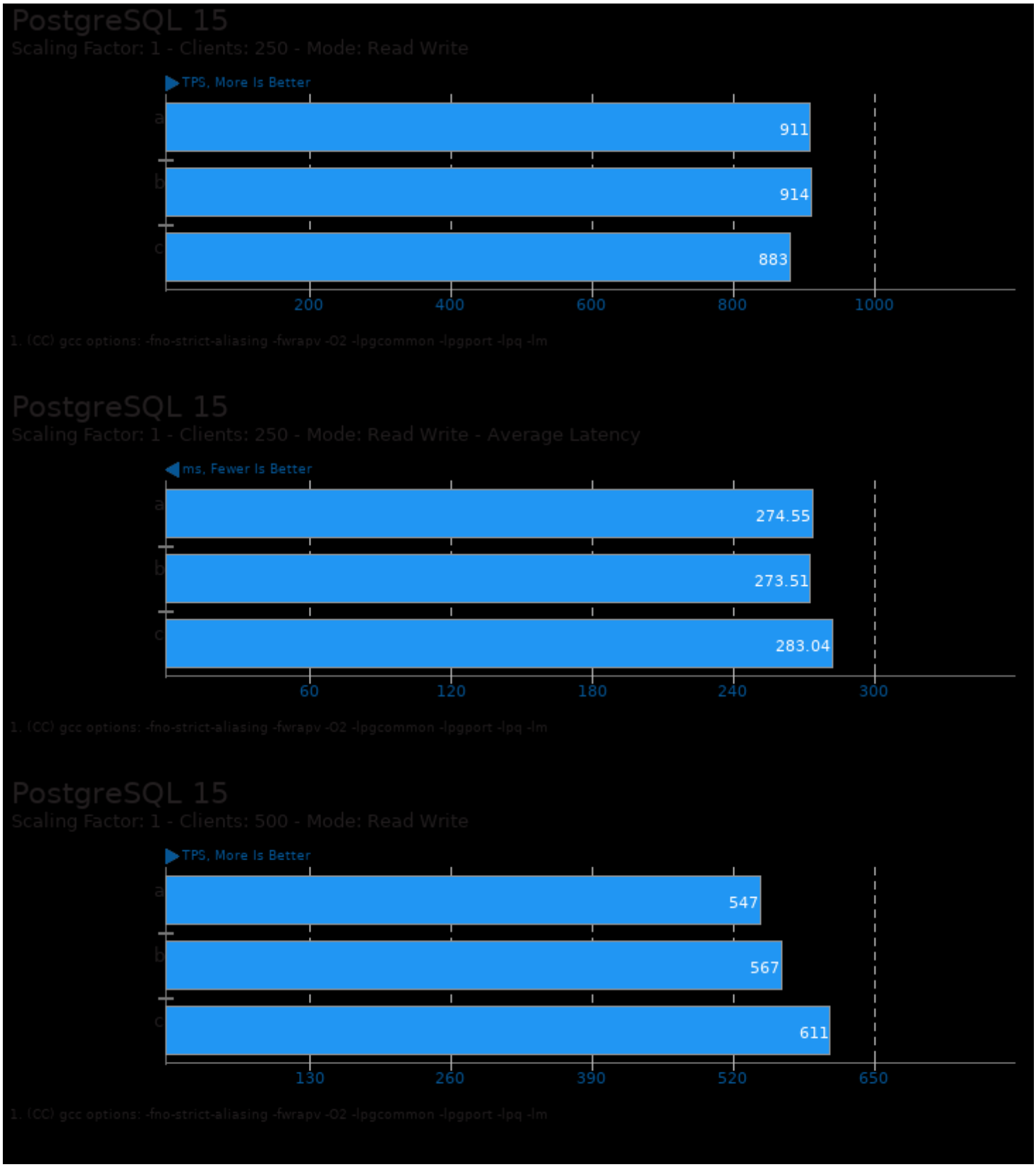
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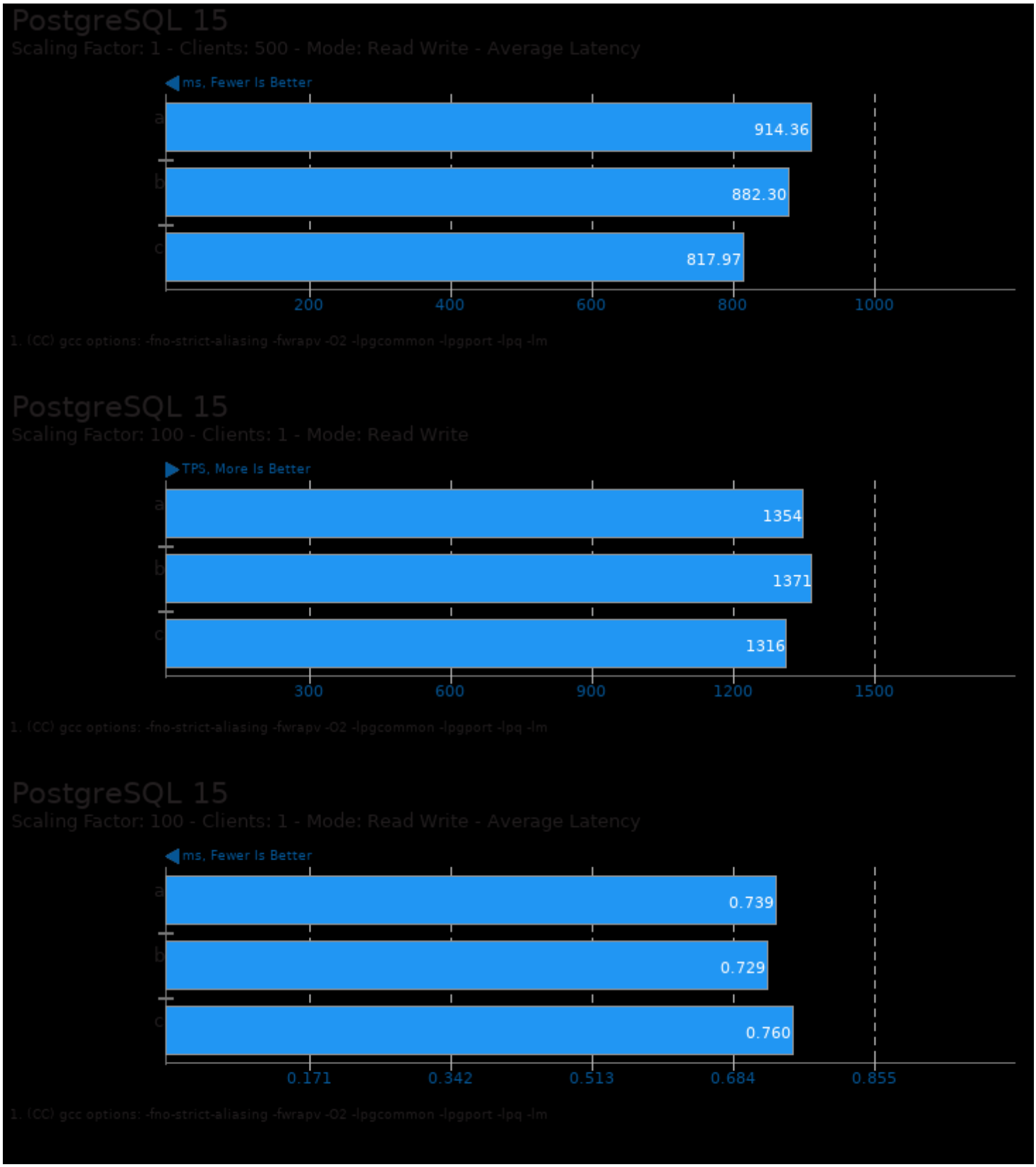


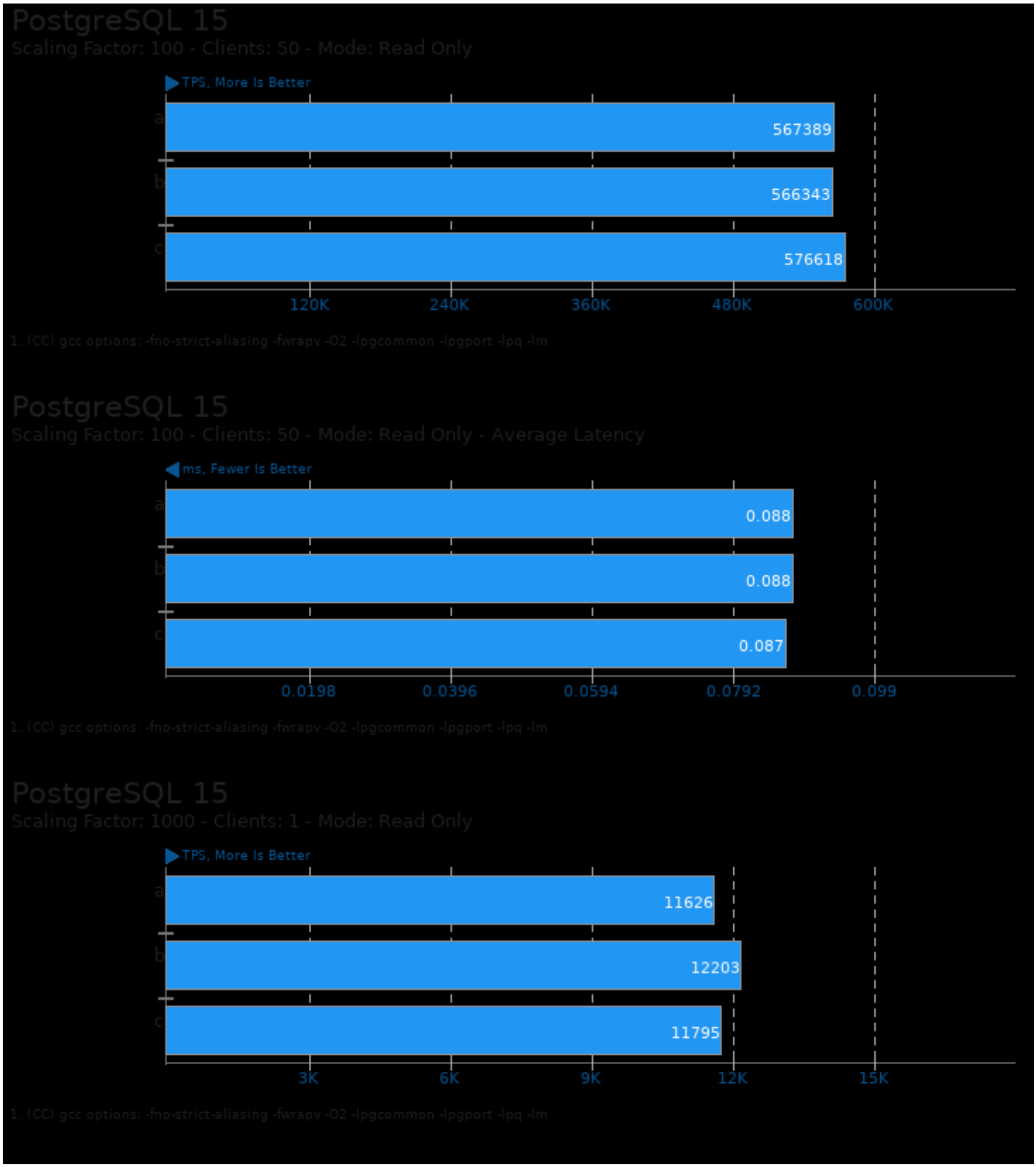

PostgreSQL 15
Scaling Factor: 1 - Clients: 250 - Mode: Read Only - Average Latency
ms, Fewer Is Better
a
0.396
b
0.404
c
0.397
0.0909
0.1818
0.2727
0.3636
0.4545
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 1 - Clients: 50 - Mode: Read Write
TPS, More Is Better
a
1336
b
1338
c
1314
300
600
900
1200
1500
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 1 - Clients: 50 - Mode: Read Write - Average Latency
ms, Fewer Is Better
a
37.43
b
37.36
c
38.05
9
18
27
36
45
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

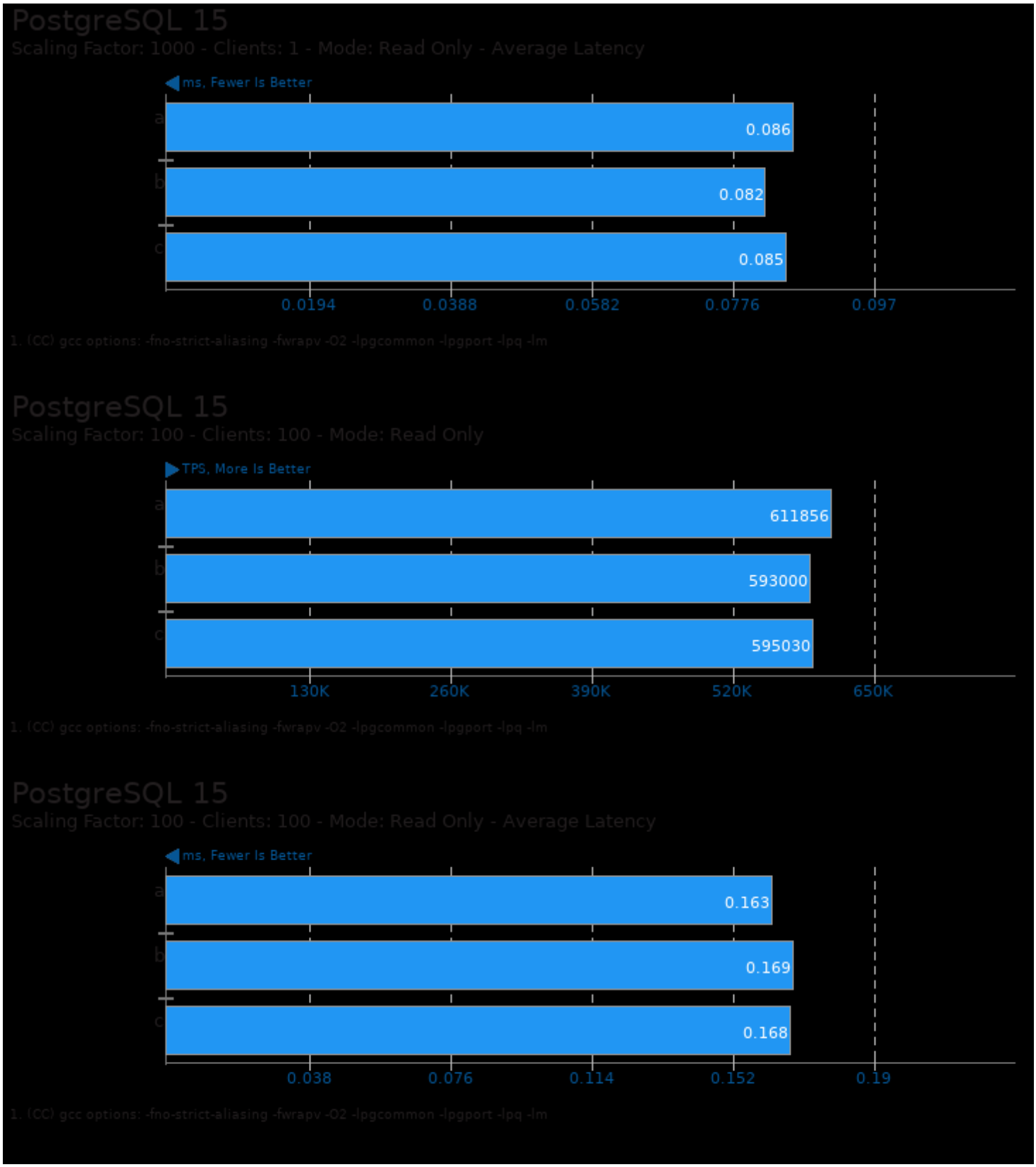

PostgreSQL 15
Scaling Factor: 1 - Clients: 500 - Mode: Read Only
TPS, More Is Better
a
543819
b
551696
c
536421
120K
240K
360K
480K
600K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 1 - Clients: 500 - Mode: Read Only - Average Latency
ms, Fewer Is Better
a
0.919
b
0.906
c
0.932
0.2097
0.4194
0.6291
0.8388
1.0485
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 100 - Clients: 1 - Mode: Read Only
TPS, More Is Better
a
64570
b
63666
c
63897
14K
28K
42K
56K
70K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

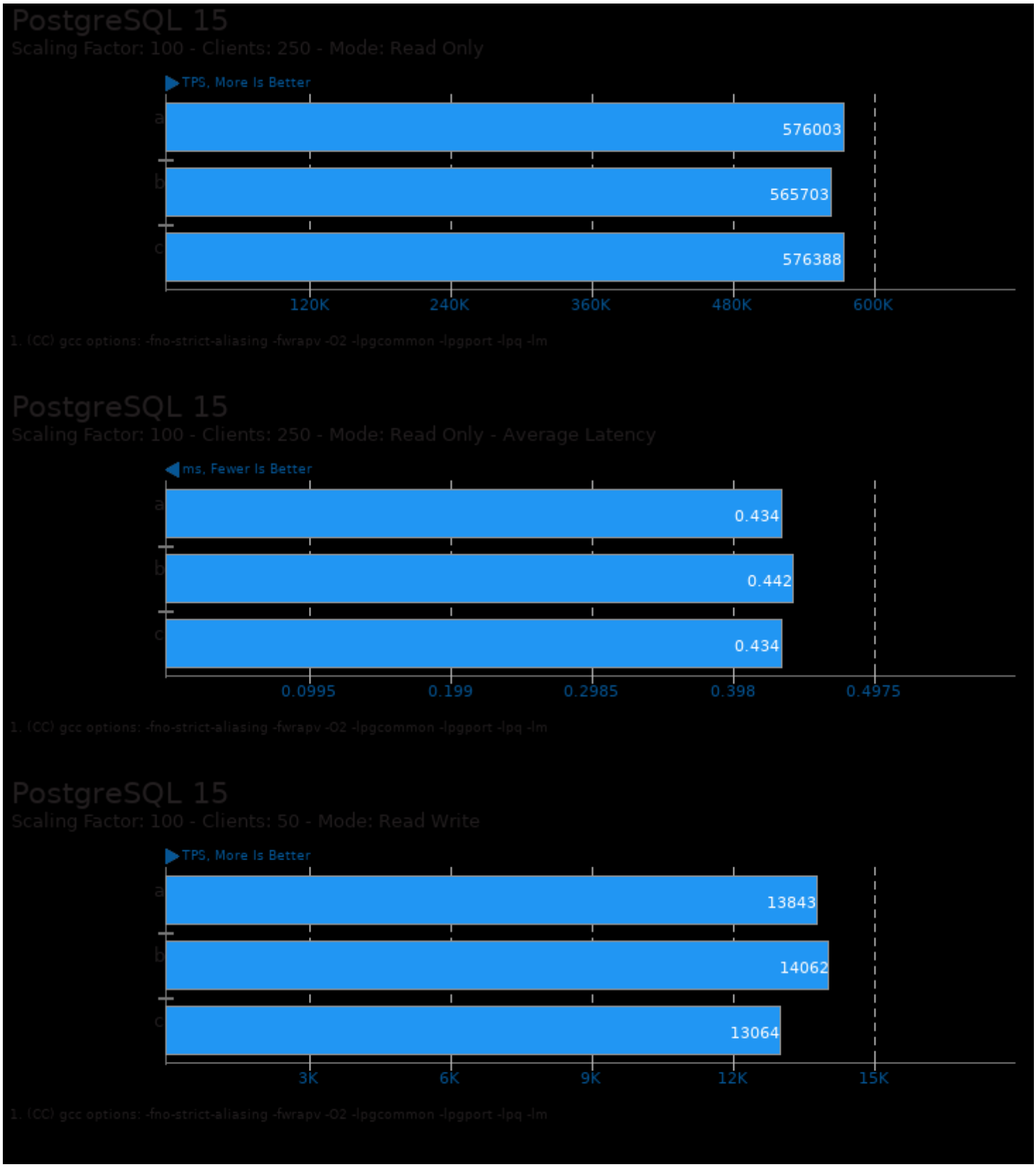

PostgreSQL 15
Scaling Factor: 100 - Clients: 1 - Mode: Read Only - Average Latency
ms, Fewer Is Better
a
b
c
0.015
0.016
0.016
0.0036
0.0072
0.0108
0.0144
0.018
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 1 - Clients: 100 - Mode: Read Write
TPS, More Is Better
a
b
c
1234
1234
1233
300
600
900
1200
1500
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 1 - Clients: 100 - Mode: Read Write - Average Latency
ms, Fewer Is Better
a
b
c
81.05
81.07
81.07
20
40
60
80
100
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

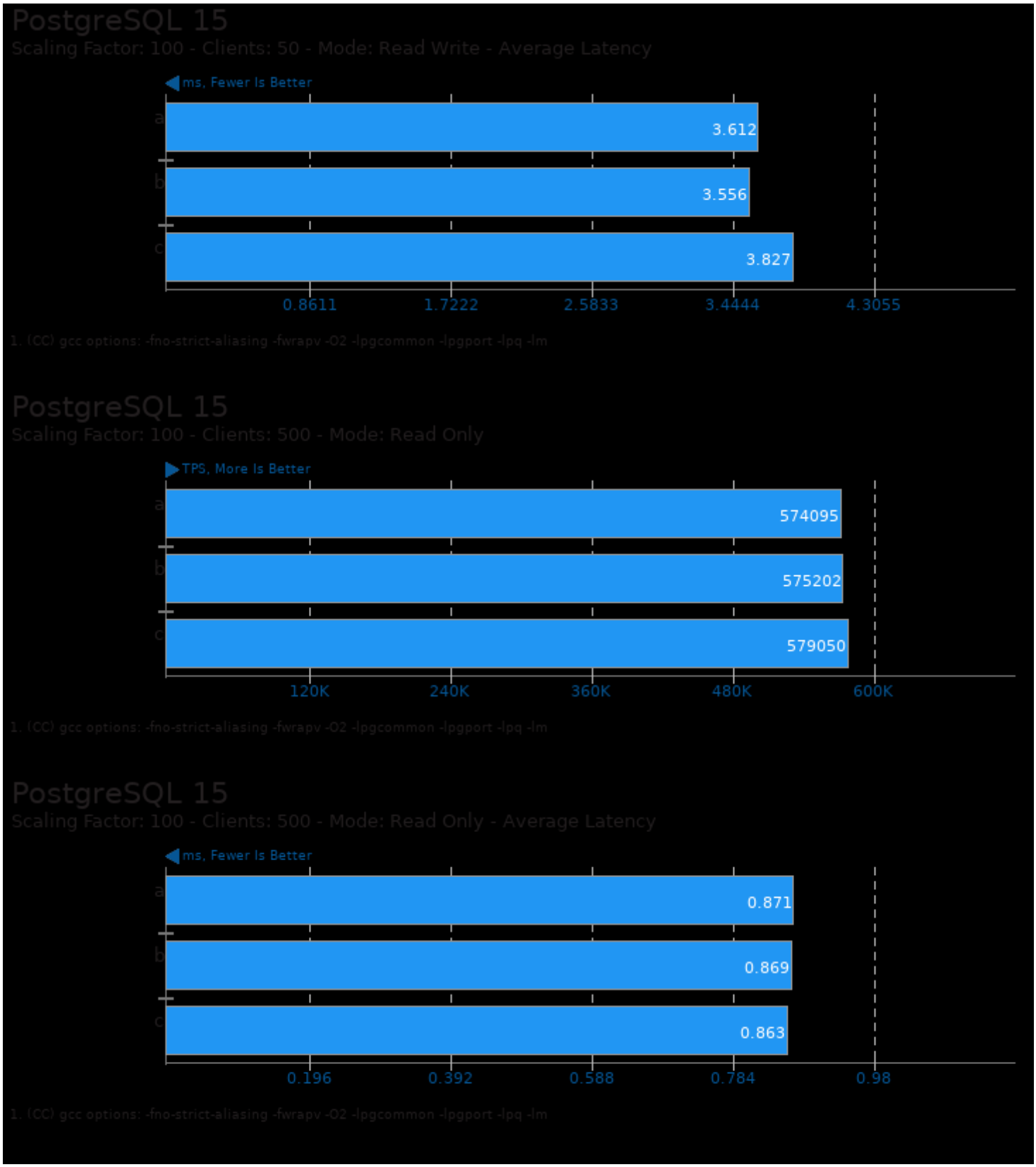

PostgreSQL 15
Scaling Factor: 1 - Clients: 250 - Mode: Read Write
TPS, More Is Better
a
911
b
914
c
883
200
400
600
800
1000
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 1 - Clients: 250 - Mode: Read Write - Average Latency
ms, Fewer Is Better
a
274.55
b
273.51
c
283.04
60
120
180
240
300
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 1 - Clients: 500 - Mode: Read Write
TPS, More Is Better
a
547
b
567
c
611
130
260
390
520
650
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

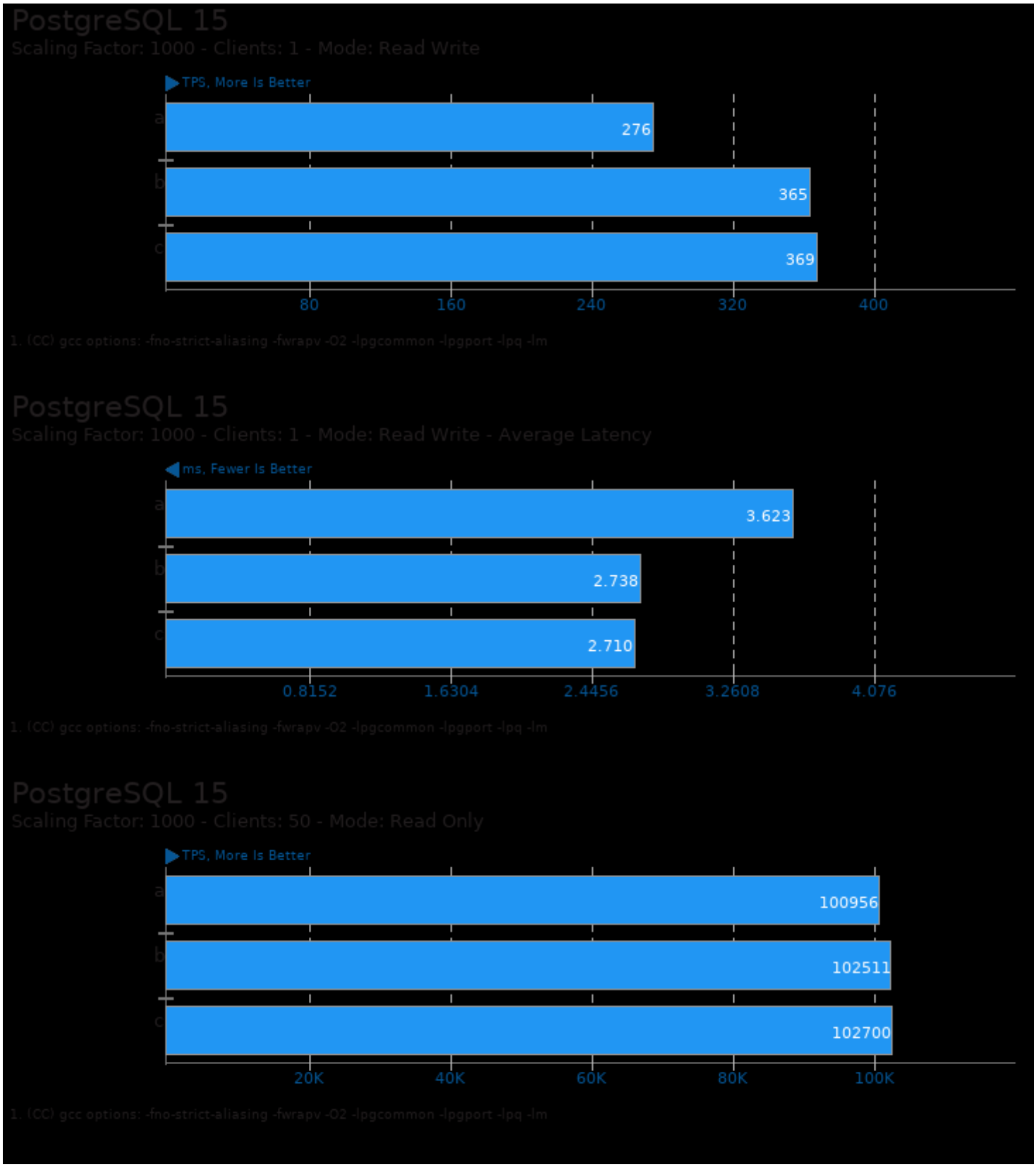

PostgreSQL 15
Scaling Factor: 1 - Clients: 500 - Mode: Read Write - Average Latency
ms, Fewer Is Better
a
914.36
b
882.30
c
817.97
200
400
600
800
1000
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 100 - Clients: 1 - Mode: Read Write
TPS, More Is Better
a
1354
b
1371
c
1316
300
600
900
1200
1500
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 100 - Clients: 1 - Mode: Read Write - Average Latency
ms, Fewer Is Better
a
0.739
b
0.729
c
0.760
0.171
0.342
0.513
0.684
0.855
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

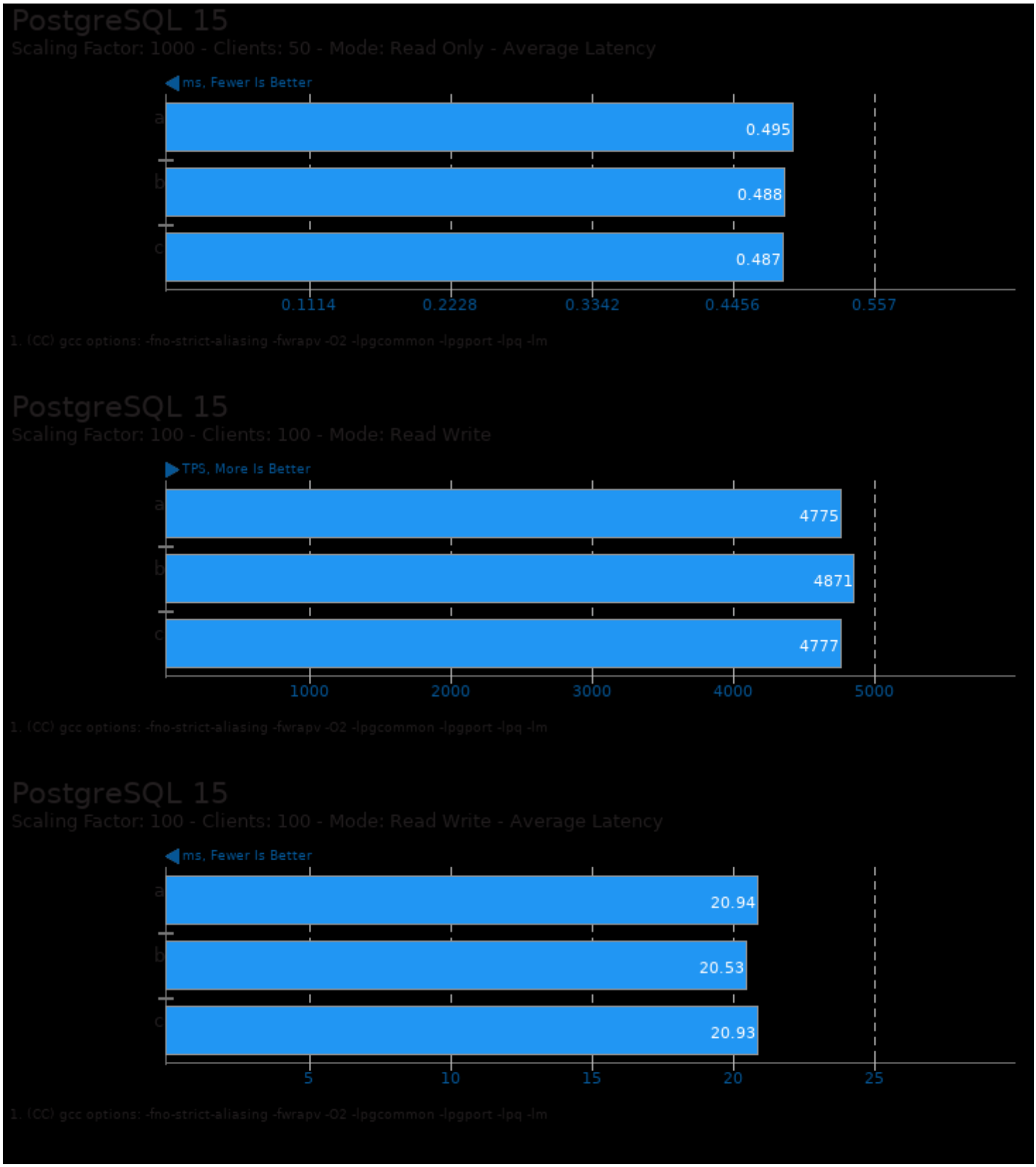

PostgreSQL 15
Scaling Factor: 100 - Clients: 50 - Mode: Read Only
TPS, More Is Better
a
b
c
567389
566343
576618
120K
240K
360K
480K
600K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 100 - Clients: 50 - Mode: Read Only - Average Latency
ms, Fewer Is Better
a
b
c
0.088
0.088
0.087
0.0198
0.0396
0.0594
0.0792
0.099
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 1000 - Clients: 1 - Mode: Read Only
TPS, More Is Better
a
b
c
11626
12203
11795
3K
6K
9K
12K
15K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

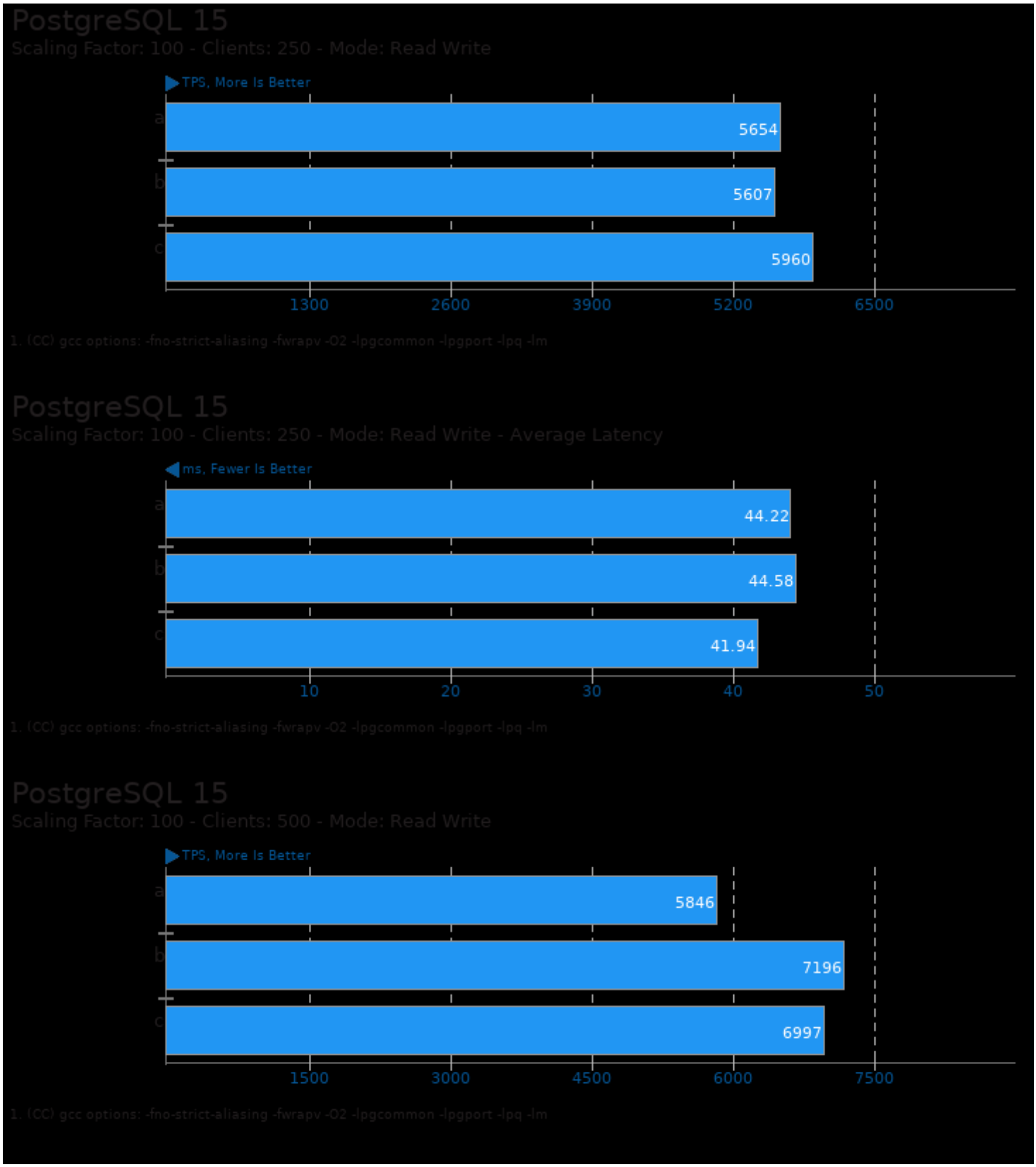

PostgreSQL 15
Scaling Factor: 1000 - Clients: 1 - Mode: Read Only - Average Latency
ms, Fewer Is Better
a
b
c
0.086
0.082
0.085
0.0194
0.0388
0.0582
0.0776
0.097
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 100 - Clients: 100 - Mode: Read Only
TPS, More Is Better
a
b
c
611856
593000
595030
130K
260K
390K
520K
650K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 100 - Clients: 100 - Mode: Read Only - Average Latency
ms, Fewer Is Better
a
b
c
0.163
0.169
0.168
0.038
0.076
0.114
0.152
0.19
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

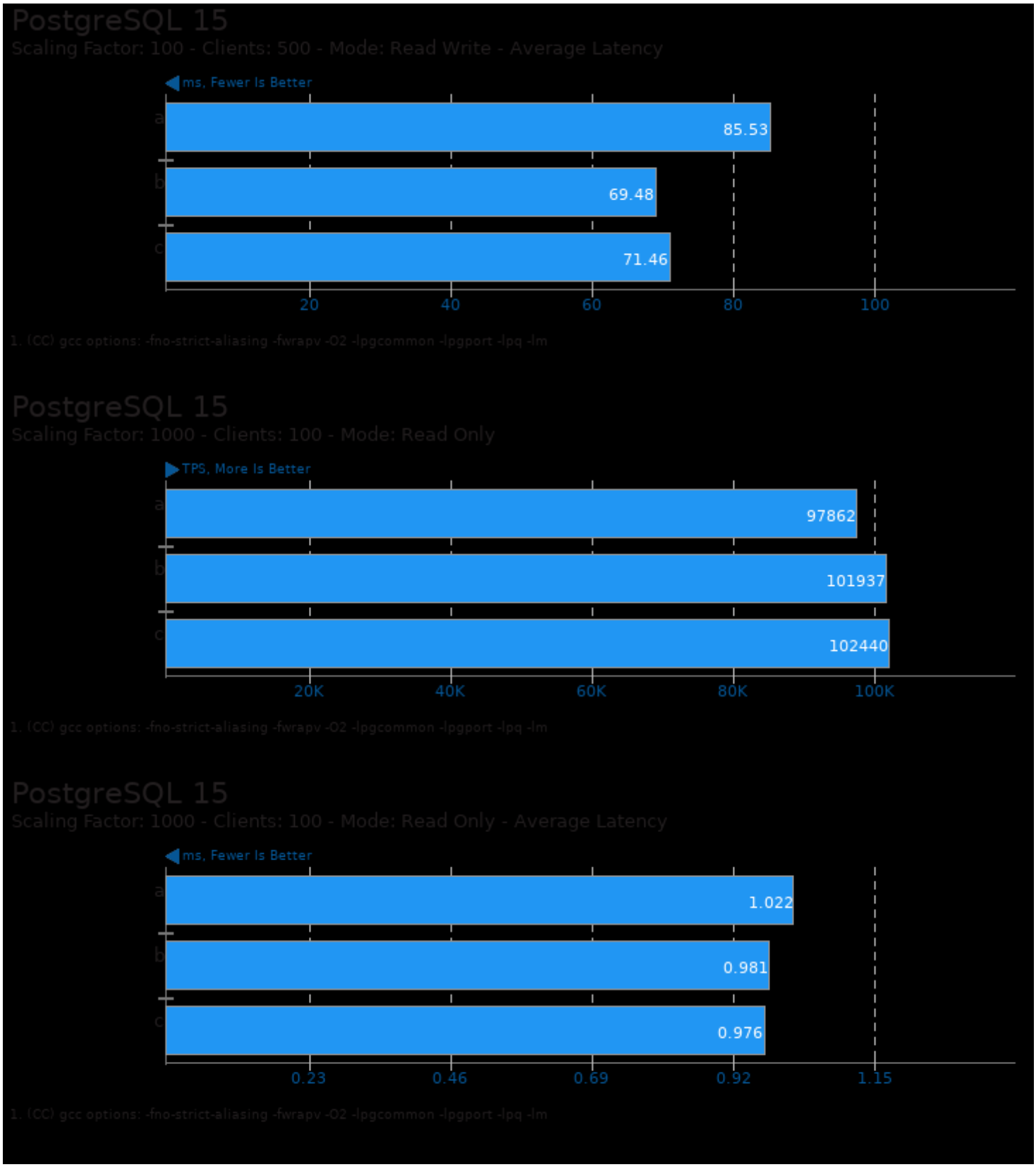

PostgreSQL 15
Scaling Factor: 100 - Clients: 250 - Mode: Read Only
TPS, More Is Better
a
576003
b
565703
c
576388
120K
240K
360K
480K
600K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 100 - Clients: 250 - Mode: Read Only - Average Latency
ms, Fewer Is Better
a
0.434
b
0.442
c
0.434
0.0995
0.199
0.2985
0.398
0.4975
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 100 - Clients: 50 - Mode: Read Write
TPS, More Is Better
a
13843
b
14062
c
13064
3K
6K
9K
12K
15K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm


PostgreSQL 15
Scaling Factor: 100 - Clients: 50 - Mode: Read Write - Average Latency
ms, Fewer Is Better
a
b
c
3.612
3.556
3.827
0.8611
1.7222
2.5833
3.4444
4.3055
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 100 - Clients: 500 - Mode: Read Only
TPS, More Is Better
a
b
c
574095
575202
579050
120K
240K
360K
480K
600K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 100 - Clients: 500 - Mode: Read Only - Average Latency
ms, Fewer Is Better
a
b
c
0.871
0.869
0.863
0.196
0.392
0.588
0.784
0.98
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

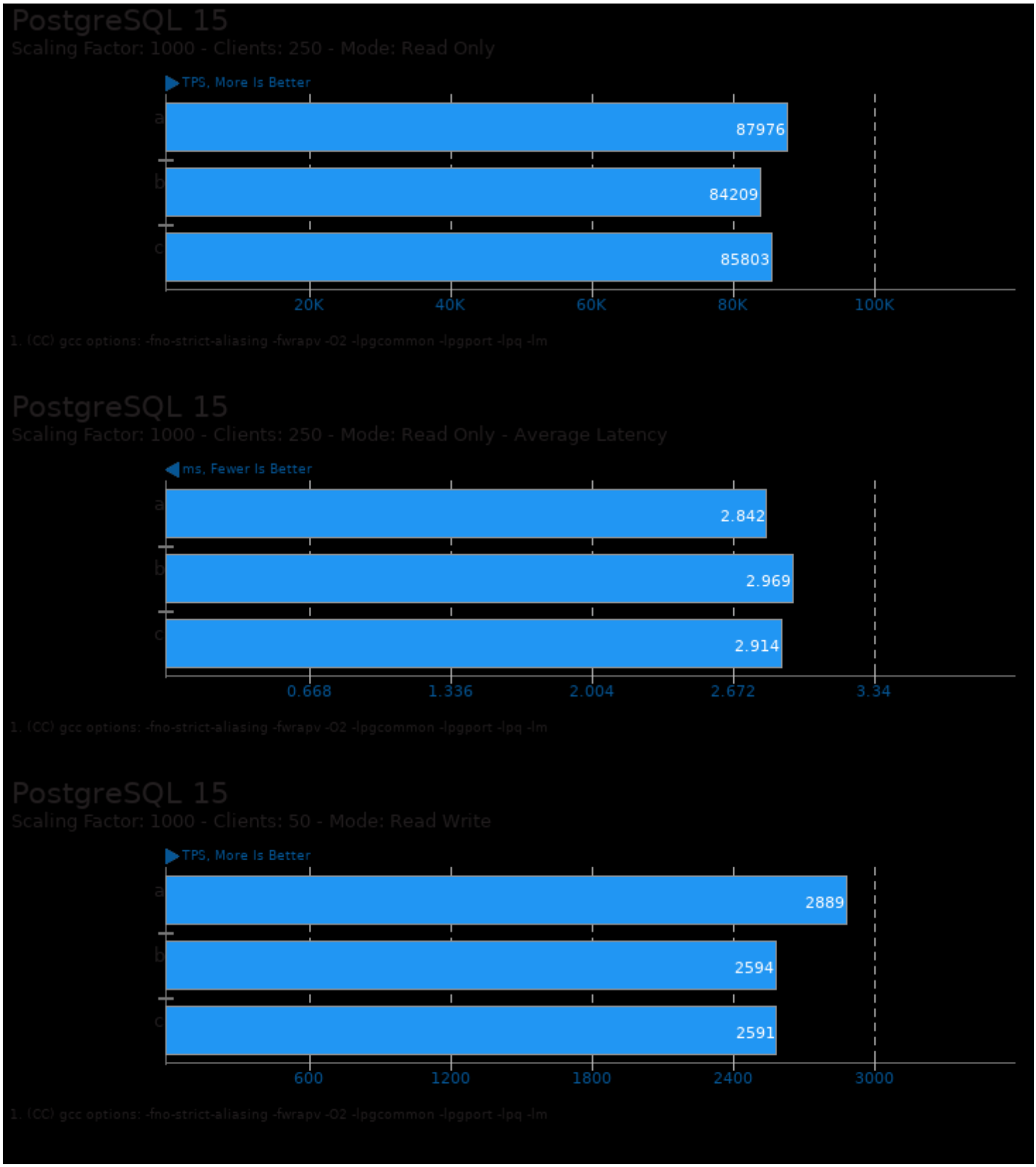

PostgreSQL 15
Scaling Factor: 1000 - Clients: 1 - Mode: Read Write
TPS, More Is Better
a
b
c
276
365
369
80
160
240
320
400
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 1000 - Clients: 1 - Mode: Read Write - Average Latency
ms, Fewer Is Better
a
b
c
3.623
2.738
2.710
0.8152
1.6304
2.4456
3.2608
4.076
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 1000 - Clients: 50 - Mode: Read Only
TPS, More Is Better
a
b
c
100956
102511
102700
20K
40K
60K
80K
100K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

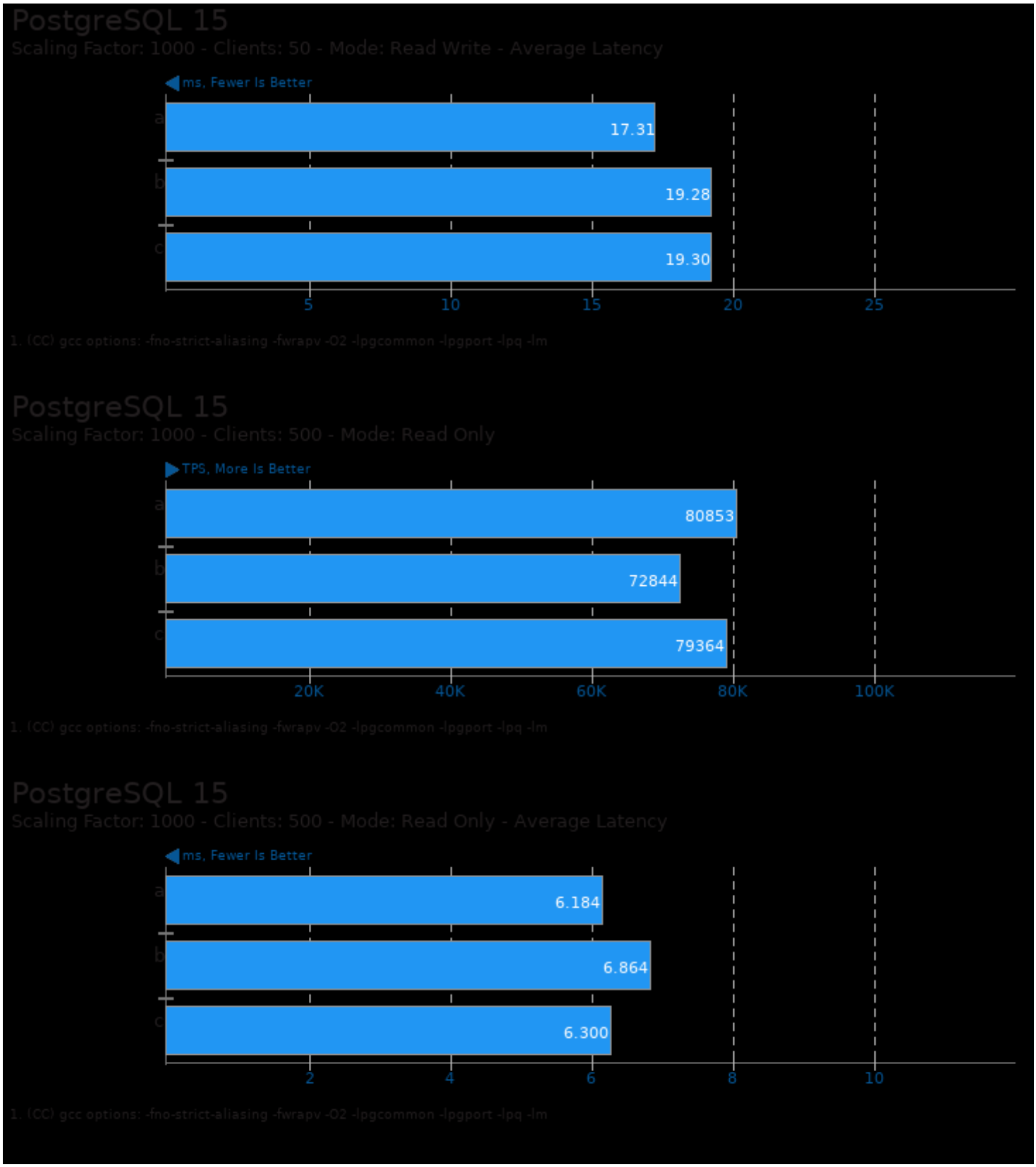

PostgreSQL 15
Scaling Factor: 1000 - Clients: 50 - Mode: Read Only - Average Latency
ms, Fewer Is Better
a
b
c
0.495
0.488
0.487
0.1114
0.2228
0.3342
0.4456
0.557
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 100 - Clients: 100 - Mode: Read Write
TPS, More Is Better
a
b
c
4775
4871
4777
1000
2000
3000
4000
5000
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 100 - Clients: 100 - Mode: Read Write - Average Latency
ms, Fewer Is Better
a
b
c
20.94
20.53
20.93
5
10
15
20
25
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm


PostgreSQL 15
Scaling Factor: 100 - Clients: 250 - Mode: Read Write
TPS, More Is Better
a
5654
b
5607
c
5960
1300
2600
3900
5200
6500
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 100 - Clients: 250 - Mode: Read Write - Average Latency
ms, Fewer Is Better
a
44.22
b
44.58
c
41.94
10
20
30
40
50
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 100 - Clients: 500 - Mode: Read Write
TPS, More Is Better
a
5846
b
7196
c
6997
1500
3000
4500
6000
7500
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

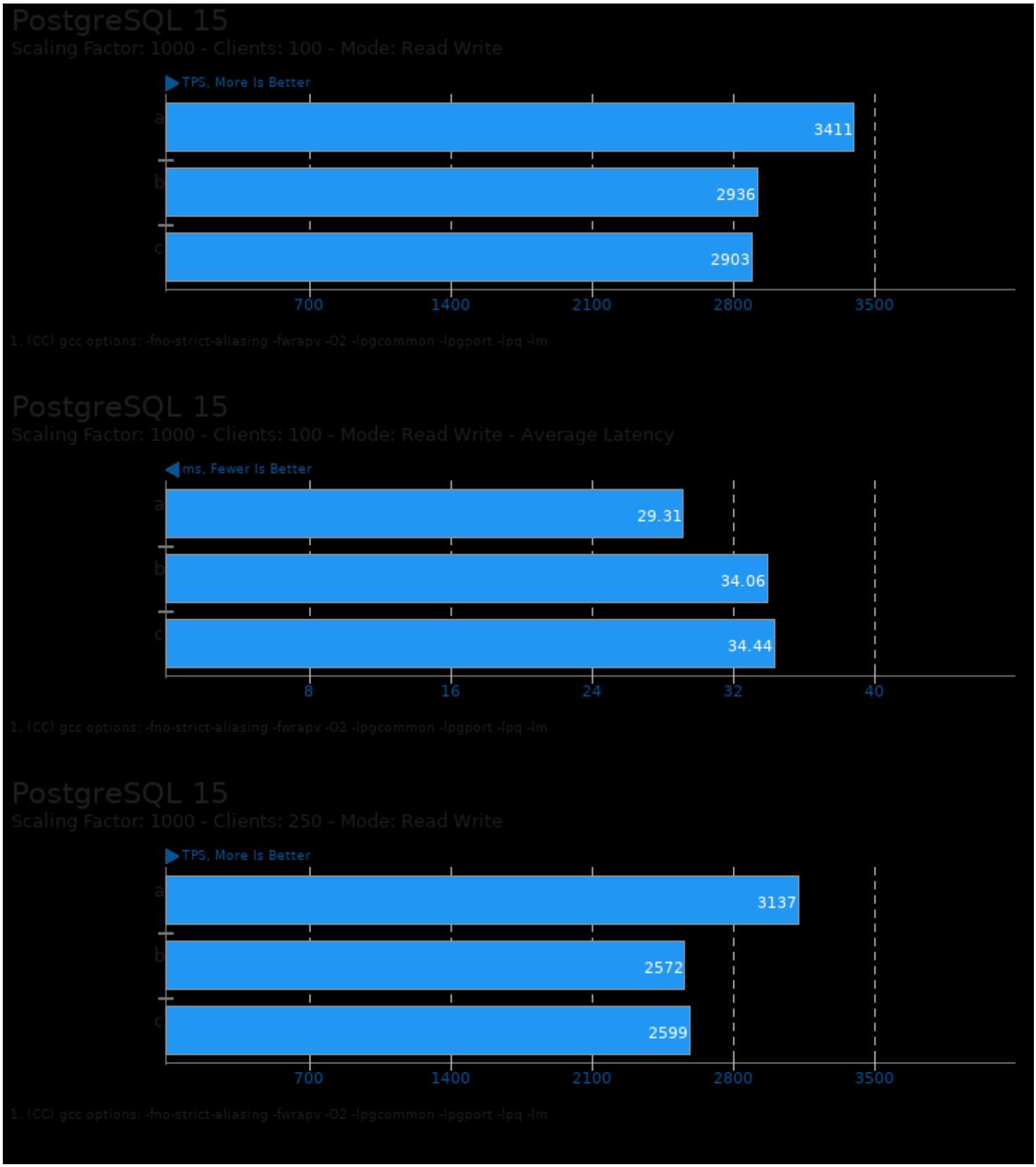

PostgreSQL 15
Scaling Factor: 100 - Clients: 500 - Mode: Read Write - Average Latency
ms, Fewer Is Better
a
b
c
85.53
69.48
71.46
20
40
60
80
100
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 1000 - Clients: 100 - Mode: Read Only
TPS, More Is Better
a
b
c
97862
101937
102440
20K
40K
60K
80K
100K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 1000 - Clients: 100 - Mode: Read Only - Average Latency
ms, Fewer Is Better
a
b
c
1.022
0.981
0.976
0.23
0.46
0.69
0.92
1.15
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

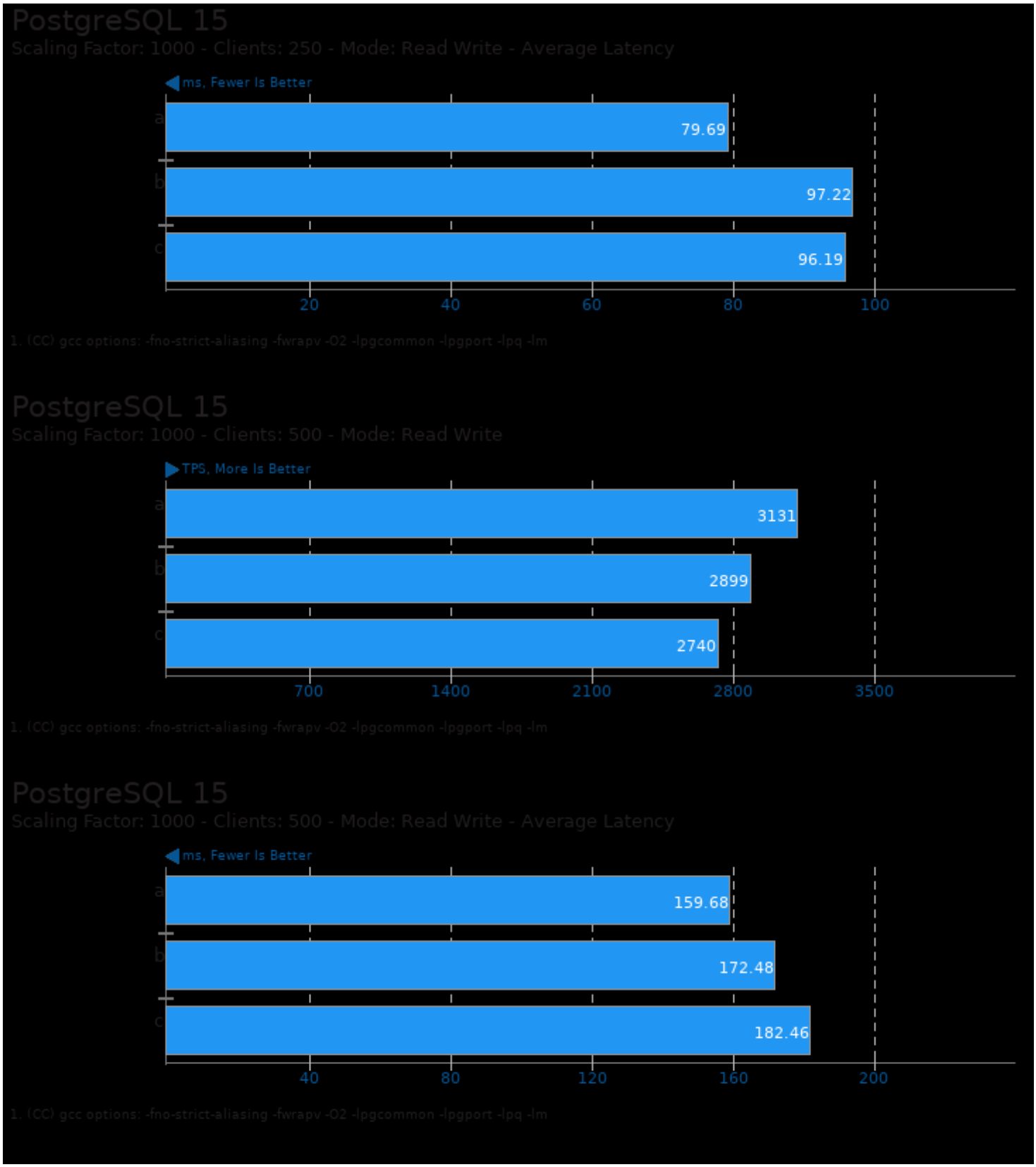
pgbench ryzen




PostgreSQL 15
Scaling Factor: 1000 - Clients: 50 - Mode: Read Write - Average Latency
ms, Fewer Is Better
a
17.31
b
19.28
c
19.30
5
10
15
20
25
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 1000 - Clients: 500 - Mode: Read Only
TPS, More Is Better
a
80853
b
72844
c
79364
20K
40K
60K
80K
100K
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm
PostgreSQL 15
Scaling Factor: 1000 - Clients: 500 - Mode: Read Only - Average Latency
ms, Fewer Is Better
a
6.184
b
6.864
c
6.300
2
4
6
8
10
1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lm

pgbench ryzen





This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 08:20.