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r6515luks

AMD EPYC 7502P 32-Core testing with a Dell PowerEdge R6515 [0R4CNN] (2.2.4 BIOS) and Matrox G200eW3 on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

LUKS

luks_s_25000_c_all_rw_r

Processor: AMD EPYC 7502P 32-Core (32 Cores / 64 Threads), Motherboard: Dell PowerEdge R6515 [0R4CNN] (2.2.4 BIOS), Chipset: AMD Starship/Matisse, Memory: 8 x 32 GB DDR4-3200MT/s HMA84GR7CJR4N-XN, Disk: 2 x 3841GB KCM6XRUL3T84 + 2 x 240GB INTEL SSDSCKKB240G8R, Graphics: Matrox G200eW3, Network: 2 x Intel XXV710 for 25GbE SFP28

OS: Ubuntu 20.04, Kernel: 5.4.0-92-generic (x86_64), Display Server: X Server 1.20.13, Vulkan: 1.0.2, Compiler: GCC 9.3.0, File-System: ext4

r6515luks

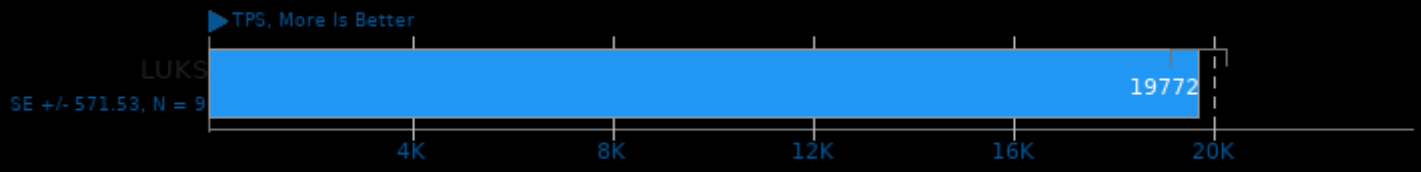
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --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: CPU Microcode: 0x830104d
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

	LUKS	luks_s_25000_c_all_rw_r
PostgreSQL pgbench - 10000 - 500 - Read Write (TPS)	19772	
Standard Deviation	8.7%	
PostgreSQL pgbench - 10000 - 500 - Read Write - Average Latency (ms)	25.442	
Standard Deviation	7.9%	
PostgreSQL pgbench - 25000 - 1 - Read Only (TPS)		9105
Standard Deviation		0.3%
PostgreSQL pgbench - 25000 - 1 - Read Only - Average Latency (ms)		0.11
Standard Deviation		0%
PostgreSQL pgbench - 25000 - 1 - Read Write (TPS)		2151
Standard Deviation		0.9%
PostgreSQL pgbench - 25000 - 1 - Read Write - Average Latency (ms)		0.465
Standard Deviation		0.9%
PostgreSQL pgbench - 25000 - 50 - Read Only (TPS)		311333
Standard Deviation		0.5%
PostgreSQL pgbench - 25000 - 50 - Read Only - Average Latency (ms)		0.160
Standard Deviation		0.4%
PostgreSQL pgbench - 25000 - 100 - Read Only (TPS)		358019
Standard Deviation		0.4%
PostgreSQL pgbench - 25000 - 100 - Read Only - Average Latency (ms)		0.280
Standard Deviation		0.4%
PostgreSQL pgbench - 25000 - 250 - Read Only (TPS)		349975
Standard Deviation		0.2%
PostgreSQL pgbench - 25000 - 250 - Read Only - Average Latency (ms)		0.714
Standard Deviation		0.2%
PostgreSQL pgbench - 25000 - 50 - Read Write (TPS)		12986
Standard Deviation		0.8%
PostgreSQL pgbench - 25000 - 50 - Read Write - Average Latency (ms)		3.850
Standard Deviation		0.8%
PostgreSQL pgbench - 25000 - 500 - Read Only (TPS)		322053
Standard Deviation		0.4%

PostgreSQL pgbench - 25000 - 500 - Read Only - Average Latency (ms)	1.552
Standard Deviation	0.4%
PostgreSQL pgbench - 25000 - 100 - Read Write (TPS)	12894
Standard Deviation	2.4%
PostgreSQL pgbench - 25000 - 100 - Read Write - Average Latency (ms)	7.759
Standard Deviation	2.3%
PostgreSQL pgbench - 25000 - 250 - Read Write (TPS)	12427
Standard Deviation	1.8%
PostgreSQL pgbench - 25000 - 250 - Read Write - Average Latency (ms)	20.122
Standard Deviation	1.8%
PostgreSQL pgbench - 25000 - 500 - Read Write (TPS)	11148
Standard Deviation	1.4%
PostgreSQL pgbench - 25000 - 500 - Read Write - Average Latency (ms)	44.857
Standard Deviation	1.5%

PostgreSQL pgbench 14.0

Scaling Factor: 10000 - Clients: 500 - Mode: Read Write



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

PostgreSQL pgbench 14.0

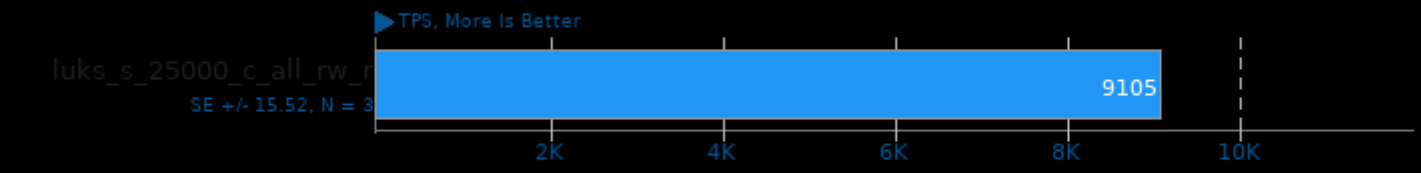
Scaling Factor: 10000 - Clients: 500 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 14.0

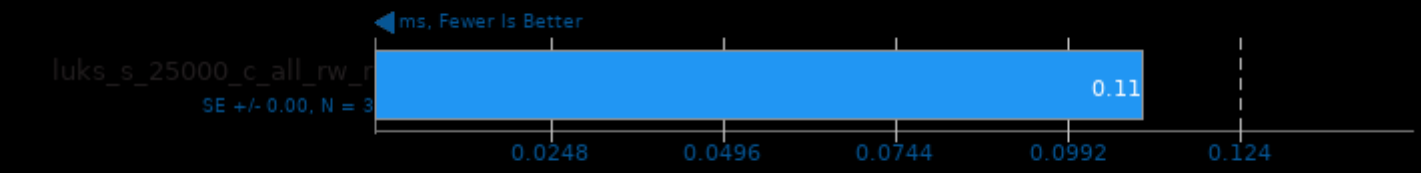
Scaling Factor: 25000 - Clients: 1 - Mode: Read Only



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

PostgreSQL pgbench 14.0

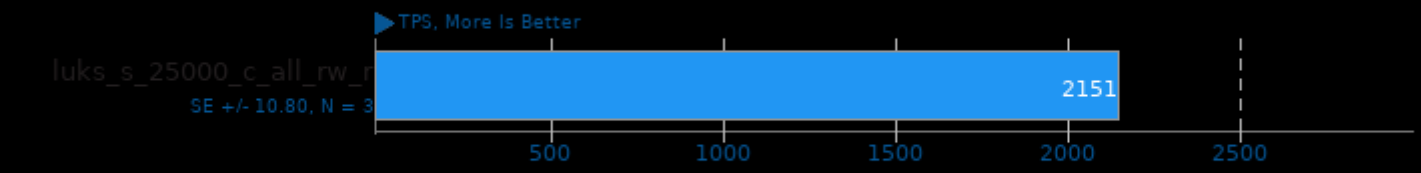
Scaling Factor: 25000 - Clients: 1 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

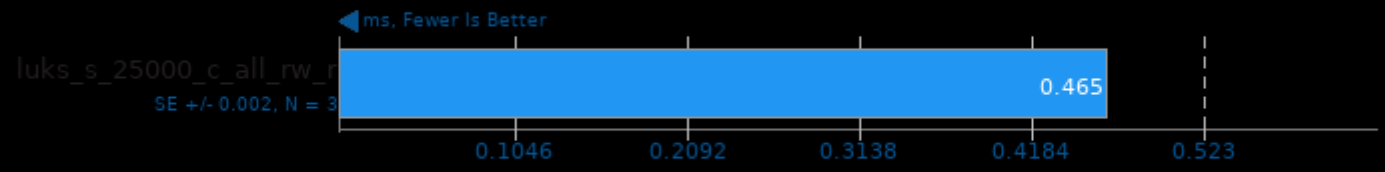
Scaling Factor: 25000 - Clients: 1 - Mode: Read Write



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

PostgreSQL pgbench 14.0

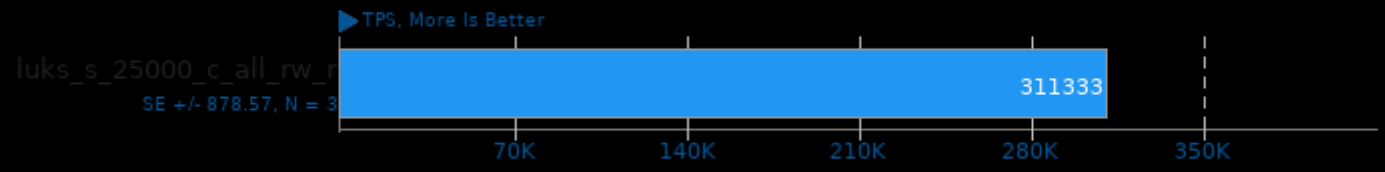
Scaling Factor: 25000 - Clients: 1 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 14.0

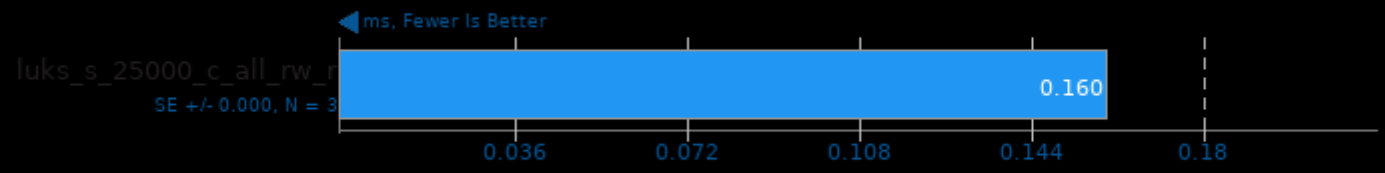
Scaling Factor: 25000 - Clients: 50 - Mode: Read Only



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

PostgreSQL pgbench 14.0

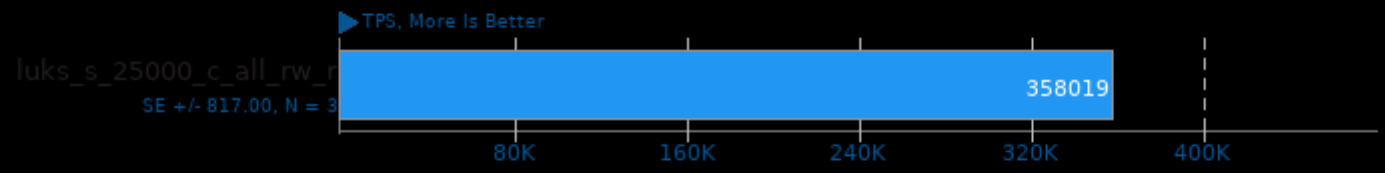
Scaling Factor: 25000 - Clients: 50 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

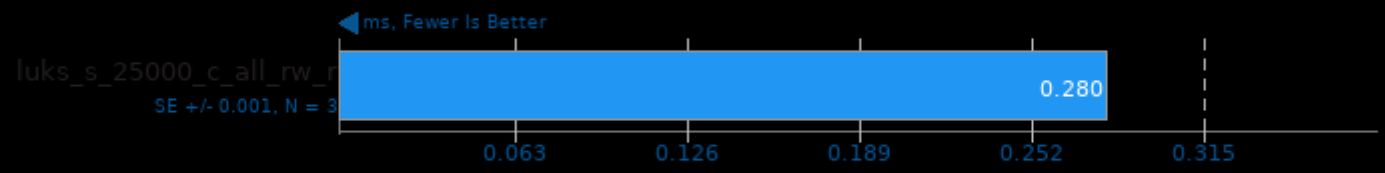
Scaling Factor: 25000 - Clients: 100 - Mode: Read Only



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

PostgreSQL pgbench 14.0

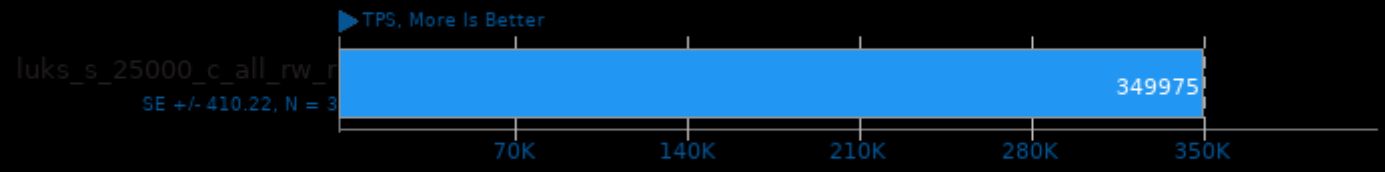
Scaling Factor: 25000 - Clients: 100 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

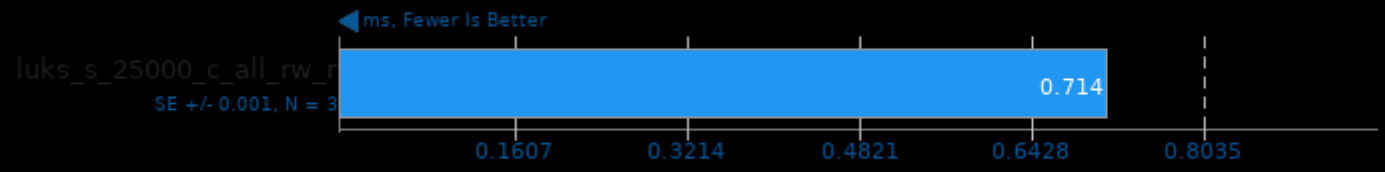
Scaling Factor: 25000 - Clients: 250 - Mode: Read Only



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

PostgreSQL pgbench 14.0

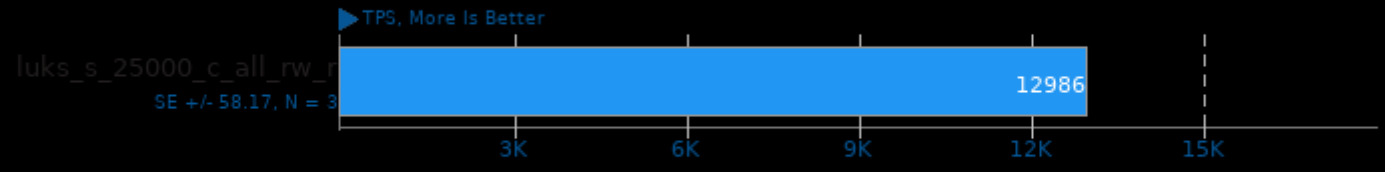
Scaling Factor: 25000 - Clients: 250 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

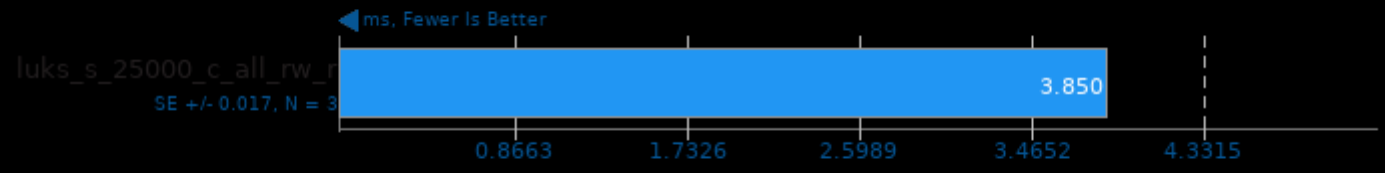
Scaling Factor: 25000 - Clients: 50 - Mode: Read Write



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

PostgreSQL pgbench 14.0

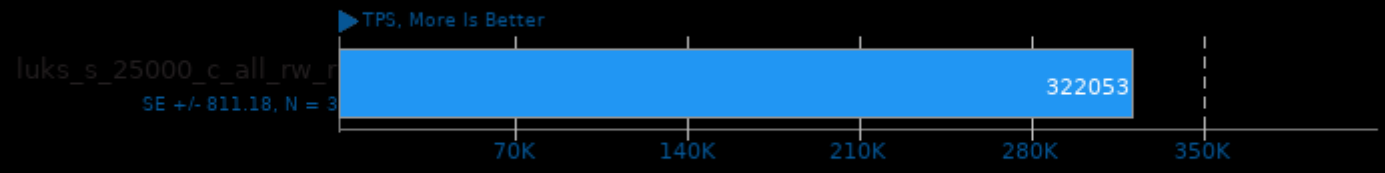
Scaling Factor: 25000 - Clients: 50 - Mode: Read Write - Average Latency



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

PostgreSQL pgbench 14.0

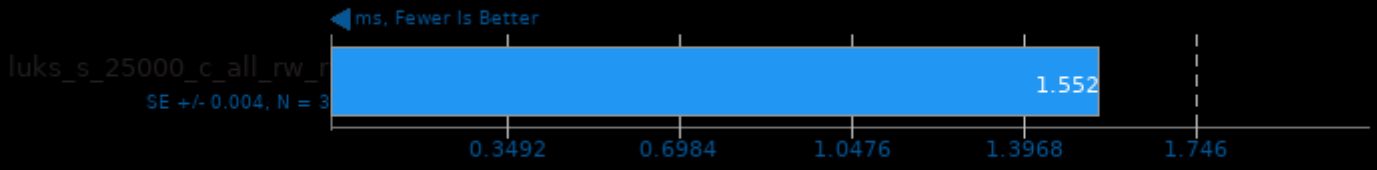
Scaling Factor: 25000 - Clients: 500 - Mode: Read Only



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

PostgreSQL pgbench 14.0

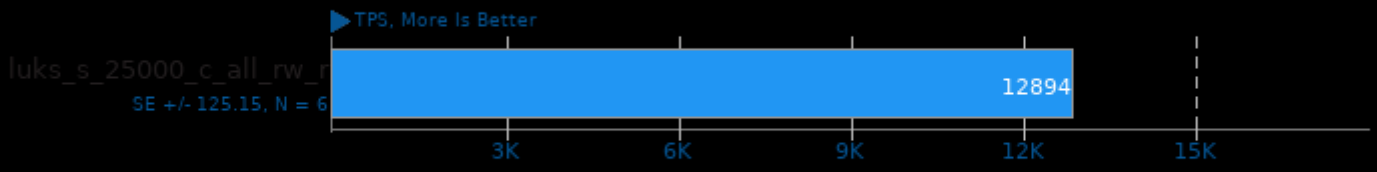
Scaling Factor: 25000 - Clients: 500 - Mode: Read Only - Average Latency



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

PostgreSQL pgbench 14.0

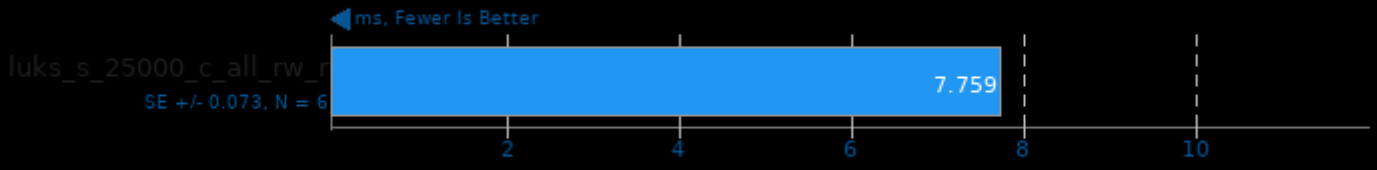
Scaling Factor: 25000 - Clients: 100 - Mode: Read Write



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

PostgreSQL pgbench 14.0

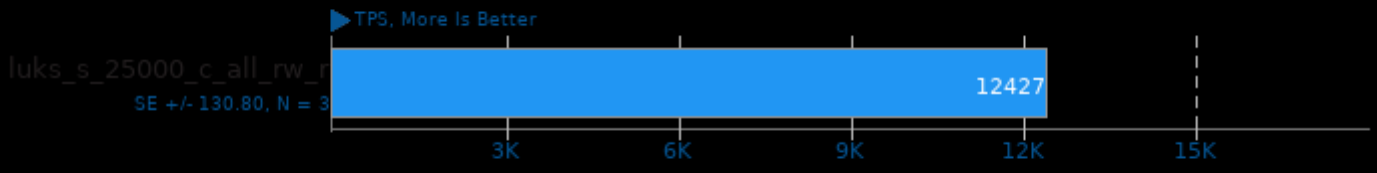
Scaling Factor: 25000 - Clients: 100 - Mode: Read Write - Average Latency



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PostgreSQL pgbench 14.0

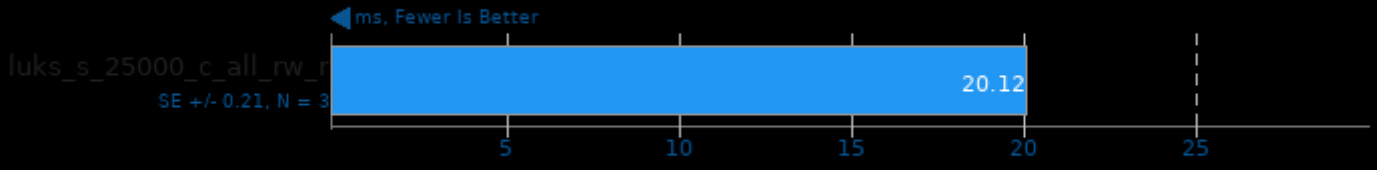
Scaling Factor: 25000 - Clients: 250 - Mode: Read Write



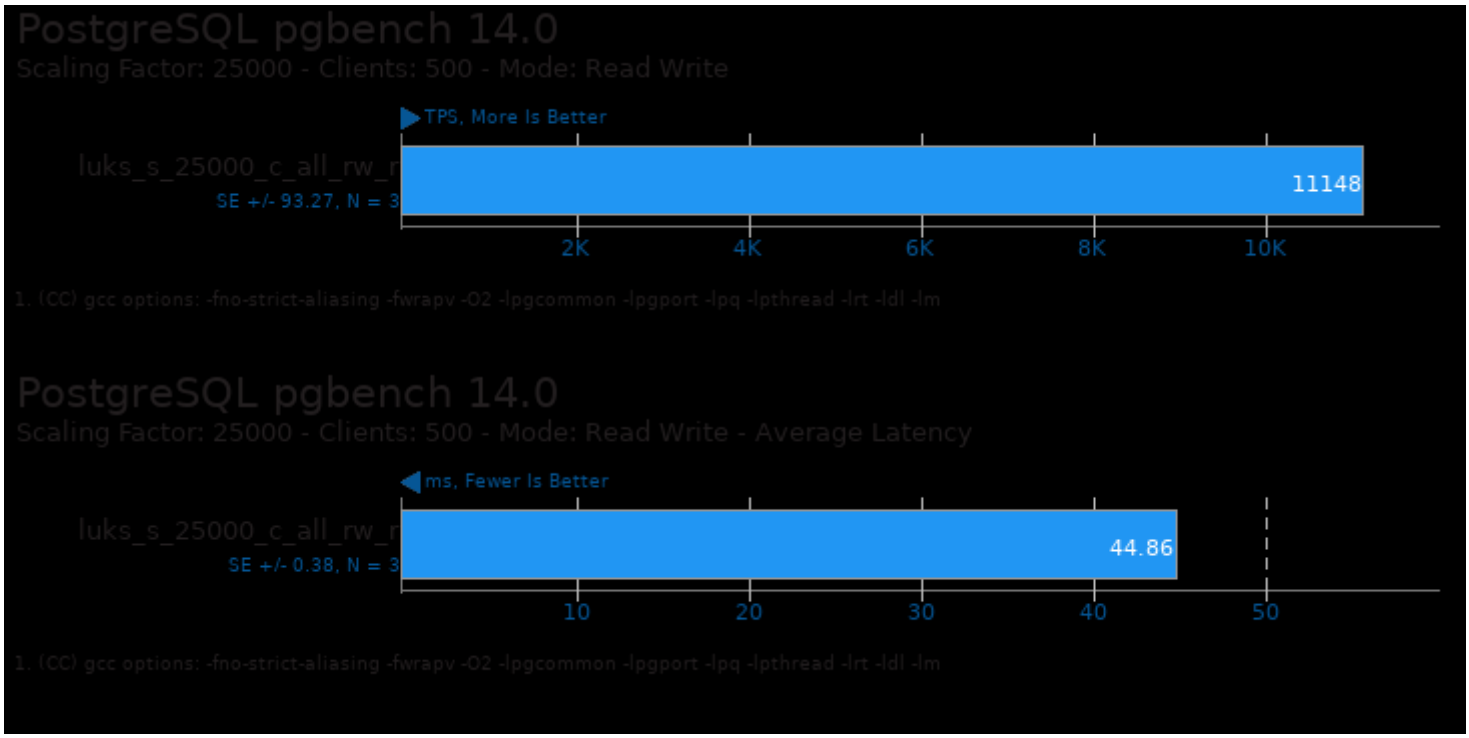
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PostgreSQL pgbench 14.0

Scaling Factor: 25000 - Clients: 250 - Mode: Read Write - Average Latency



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