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Test Systems:

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Processor: Intel Xeon E5-2678 v3 @ 3.30GHz (12 Cores / 24 Threads), Motherboard: HUANANZHI X99-TF-Q GAMING (5.11 BIOS), Chipset: Intel Xeon E7 v3/Xeon, Memory: 4 x 32 GB DDR3-1866MT/s Samsung M386B4G70DM0-CMA4, Disk: 120GB GIGABYTE GP-GSTF + 2 x 1000GB Western Digital WD10EZEX-08W + 1000GB Western Digital WD10EZEX-22M, Network: 5 x Realtek RTL8111/8168/8411

OS: Oracle Linux Server 9.1, Kernel: 5.15.0-6.80.3.1.el9uek.x86_64 (x86_64), Compiler: GCC 11.3.1 20220421 + Clang 14.0.6 + LLVM 14.0.6, File-System: xfs

Kernel Notes: Transparent Huge Pages: never

Compiler Notes: --build=x86_64-redhat-linux --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-host-bind-now --enable-host-pie --enable-initfini-array --enable-languages=c,c++,fortran,lto --enable-link-serialization=1 --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-arch_64=x86-64-v2 --with-build-config=bootstrap-lto --with-gcc-major-version-only --with-linker-hash-style=gnu --with-tune=generic

--without-cuda-driver --without-isl

Processor Notes: Scaling Governor: intel_cpufreq performance - CPU Microcode: 0x49

Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + I1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: Vulnerable + mmio_stale_data: Vulnerable + retbleed: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swappgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled PBRBS-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

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PostgreSQL - 1 - 100 - Read Only (TPS) 450672

Standard Deviation 0.5%

PostgreSQL - 1 - 100 - Read Only - Average Latency (ms) 0.222

Standard Deviation 0.5%

PostgreSQL - 1 - 100 - Read Write (TPS) 884

Standard Deviation 0%

PostgreSQL - 1 - 100 - Read Write - Average Latency (ms) 113.150

Standard Deviation 0%

PostgreSQL 15

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



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

PostgreSQL 15

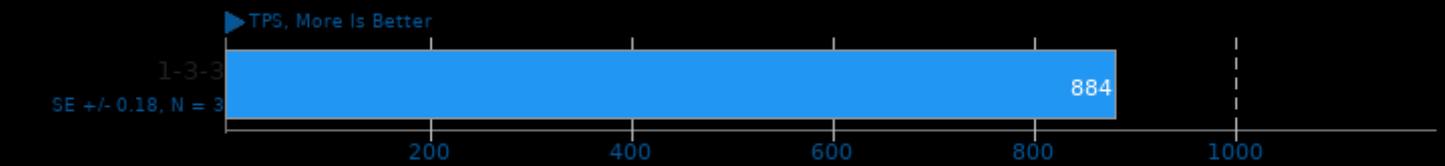
Scaling Factor: 1 - Clients: 100 - Mode: Read Only - Average Latency



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PostgreSQL 15

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



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PostgreSQL 15

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



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