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5950x1221

AMD Ryzen 9 5950X 16-Core testing with a MSI MEG X570 GODLIKE (MS-7C34) v1.0 (1.I0 BIOS) and eVGA NVIDIA GeForce GTX 1060 6GB on Gentoo 2.9 via the Phoronix Test Suite.

Test Systems:

AMD Ryzen 9 5950X 16-Core - eVGA NVIDIA GeForce GTX

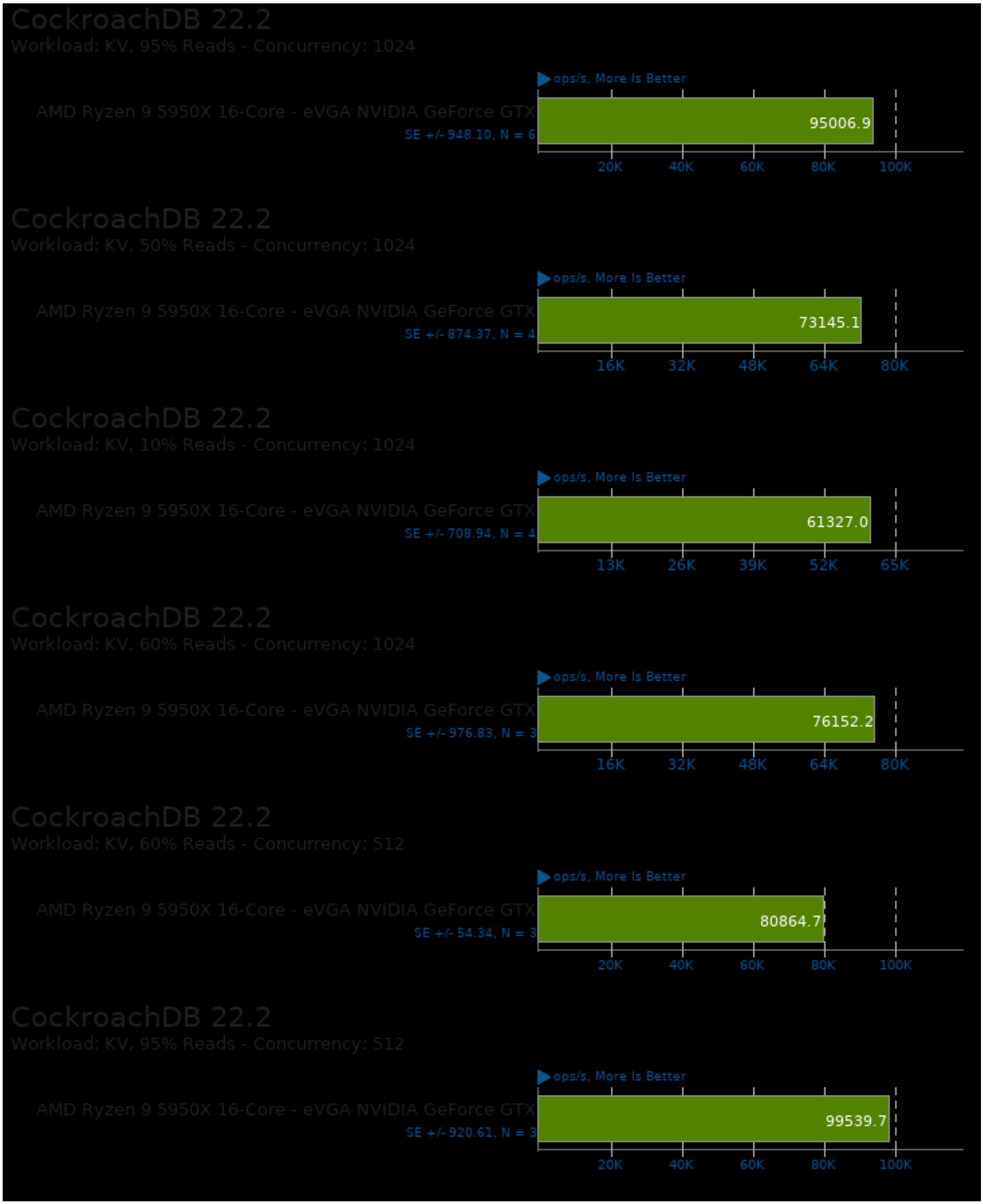
Processor: AMD Ryzen 9 5950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: MSI MEG X570 GODLIKE (MS-7C34) v1.0 (1.I0 BIOS), Chipset: AMD Starship/Matisse, Memory: 2 x 16 GB DDR4-3733MT/s TEAMGROUP-UD4-3600, Disk: 3 x 1000GB Samsung SSD 980 PRO 1TB, Graphics: eVGA NVIDIA GeForce GTX 1060 6GB, Audio: NVIDIA GP106 HD Audio, Network: Realtek Device 2600 + Realtek Killer E3000 2.5GbE + Intel Wi-Fi 6 AX200

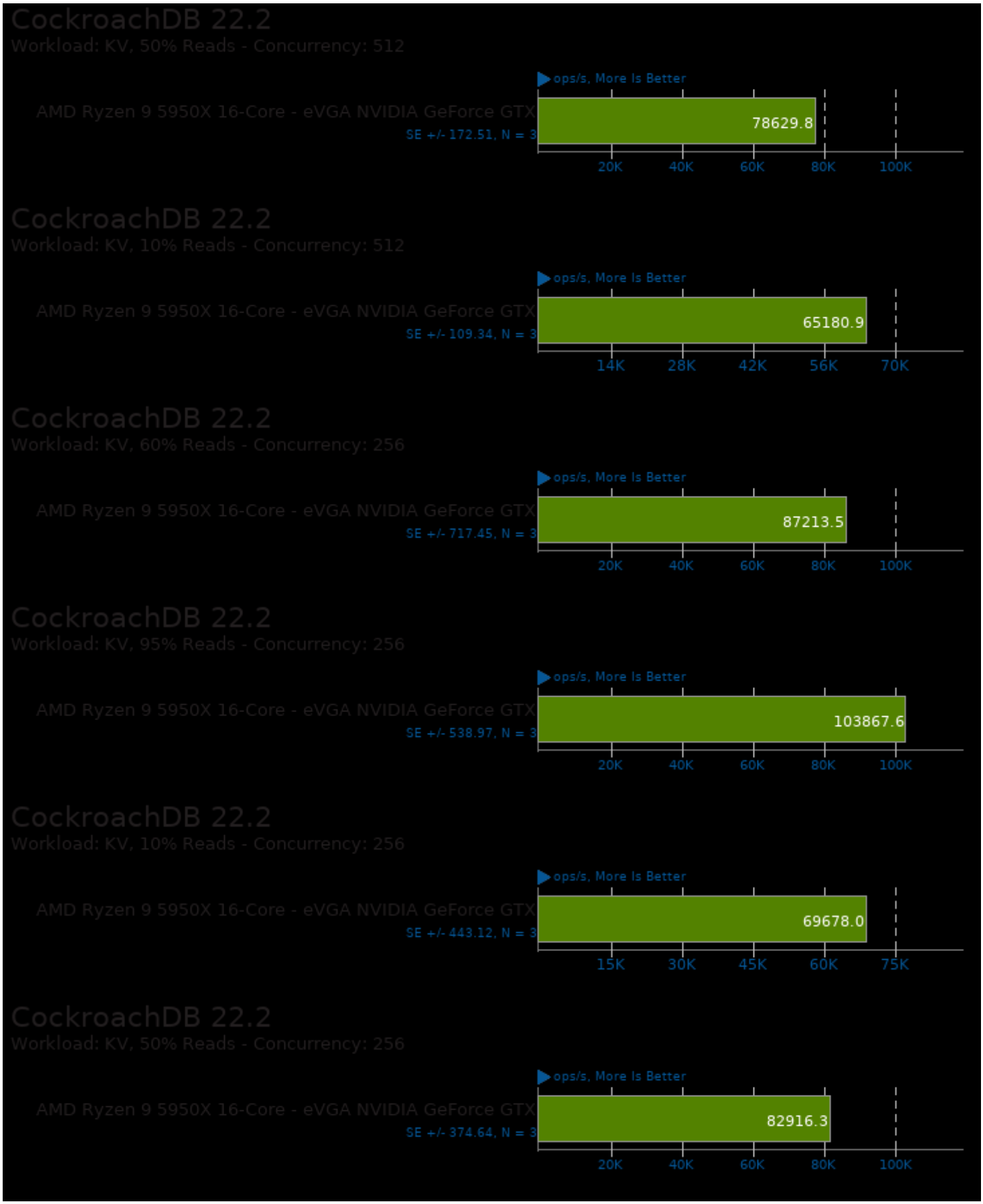
OS: Gentoo 2.9, Kernel: 6.1.0-gentoo-harambe-edition (x86_64), Desktop: KDE Plasma 5.26.4, Display Server: X Server 1.21.1.4, Display Driver: NVIDIA 515.86.01, Compiler: GCC 12.2.1 20221210 + Clang 15.0.6 + LLVM 15.0.6, File-System: ext4

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --bindir=/usr/x86_64-pc-linux-gnu/gcc-bin/12 --build=x86_64-pc-linux-gnu --datadir=/usr/share/gcc-data/x86_64-pc-linux-gnu/12 --disable-cet --disable-default-ssp --disable-esp --disable-fixed-point --disable-isl-version-check --disable-libada --disable-libsanitizer --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-libvtv --disable-nls --disable-systemtap --disable-valgrind-annotations --disable-vtable-verify --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-languages=c,c++,go,fortran --enable-libgomp --enable-libstdcxx-time --enable-lto --enable-multilib --enable-obsolete --enable-secureplt --enable-shared --enable-targets=all --enable-threads=posix --host=x86_64-pc-linux-gnu --includedir=/usr/lib/gcc/x86_64-pc-linux-gnu/12/include --mandir=/usr/share/gcc-data/x86_64-pc-linux-gnu/12/man --with-build-config=bootstrap-lto --with-gcc-major-version-only --with-isl --with-multilib-list=m32,m64 --with-python-dir=/share/gcc-data/x86_64-pc-linux-gnu/12/python --with-zstd
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201016
Python Notes: Python 3.11.1
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: Vulnerable IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

	AMD Ryzen 9 5950X 16-Core - eVGA NVIDIA GeForce GTX
CockroachDB - KV, 95% Reads - 1024 (ops/s)	95007
Standard Deviation	2.4%
CockroachDB - KV, 50% Reads - 1024 (ops/s)	73145
Standard Deviation	2.4%
CockroachDB - KV, 10% Reads - 1024 (ops/s)	61327
Standard Deviation	2.3%
CockroachDB - KV, 60% Reads - 1024 (ops/s)	76152
Standard Deviation	2.2%
CockroachDB - KV, 60% Reads - 512 (ops/s)	80865
Standard Deviation	0.1%
CockroachDB - KV, 95% Reads - 512 (ops/s)	99540
Standard Deviation	1.6%
CockroachDB - KV, 50% Reads - 512 (ops/s)	78630
Standard Deviation	0.4%
CockroachDB - KV, 10% Reads - 512 (ops/s)	65181
Standard Deviation	0.3%
CockroachDB - KV, 60% Reads - 256 (ops/s)	87214
Standard Deviation	1.4%
CockroachDB - KV, 95% Reads - 256 (ops/s)	103868
Standard Deviation	0.9%
CockroachDB - KV, 10% Reads - 256 (ops/s)	69678
Standard Deviation	1.1%
CockroachDB - KV, 50% Reads - 256 (ops/s)	82916
Standard Deviation	0.8%
CockroachDB - KV, 10% Reads - 128 (ops/s)	73504
Standard Deviation	1.8%
CockroachDB - KV, 60% Reads - 128 (ops/s)	90039
Standard Deviation	1.1%
CockroachDB - KV, 50% Reads - 128 (ops/s)	85474
Standard Deviation	0.3%
CockroachDB - KV, 95% Reads - 128 (ops/s)	107498
Standard Deviation	0.4%
CockroachDB - MoVR - 256 (ops/s)	1534
Standard Deviation	0%
CockroachDB - MoVR - 128 (ops/s)	1541
Standard Deviation	0.1%
CockroachDB - MoVR - 512 (ops/s)	1538

Standard Deviation	0.1%
CockroachDB - MoVR - 1024 (ops/s)	1535
Standard Deviation	0.2%
Numenta Anomaly Benchmark - KNN CAD (sec)	94.812
Standard Deviation	2%
ClickHouse - 1.R.W.A.D.T.R (Queries/min, Geo Mean)	259.44
Standard Deviation	1.9%
ClickHouse - 1.R.W.A.D.S.R (Queries/min, Geo Mean)	265.07
Standard Deviation	1%
ClickHouse - 1.R.W.A.D.F.R.C.C (Queries/min, Geo Mean)	255.20
Standard Deviation	2%
Numenta Anomaly Benchmark - Earthgecko Skyline (sec)	60.003
Standard Deviation	0.6%
Numenta Anomaly Benchmark - C.A.D.O (sec)	27.189
Standard Deviation	1%
Numenta Anomaly Benchmark - B.C (sec)	21.782
Standard Deviation	0.1%
Numenta Anomaly Benchmark - Relative Entropy (sec)	11.583
Standard Deviation	1.6%
Numenta Anomaly Benchmark - Windowed Gaussian (sec)	5.086
Standard Deviation	2.3%


CockroachDB 22.2
Workload: KV, 95% Reads - Concurrency: 1024
ops/s, More Is Better
AMD Ryzen 9 5950X 16-Core - eVGA NVIDIA GeForce GTX
SE +/- 948.10, N = 6
95006.9
20K
40K
60K
80K
100K
CockroachDB 22.2
Workload: KV, 50% Reads - Concurrency: 1024
ops/s, More Is Better
AMD Ryzen 9 5950X 16-Core - eVGA NVIDIA GeForce GTX
SE +/- 874.37, N = 4
73145.1
16K
32K
48K
64K
80K
CockroachDB 22.2
Workload: KV, 10% Reads - Concurrency: 1024
ops/s, More Is Better
AMD Ryzen 9 5950X 16-Core - eVGA NVIDIA GeForce GTX
SE +/- 708.94, N = 4
61327.0
13K
26K
39K
52K
65K
CockroachDB 22.2
Workload: KV, 60% Reads - Concurrency: 1024
ops/s, More Is Better
AMD Ryzen 9 5950X 16-Core - eVGA NVIDIA GeForce GTX
SE +/- 976.83, N = 3
76152.2
16K
32K
48K
64K
80K
CockroachDB 22.2
Workload: KV, 60% Reads - Concurrency: 512
ops/s, More Is Better
AMD Ryzen 9 5950X 16-Core - eVGA NVIDIA GeForce GTX
SE +/- 54.34, N = 3
80864.7
20K
40K
60K
80K
100K
CockroachDB 22.2
Workload: KV, 95% Reads - Concurrency: 512
ops/s, More Is Better
AMD Ryzen 9 5950X 16-Core - eVGA NVIDIA GeForce GTX
SE +/- 920.61, N = 3
99539.7
20K
40K
60K
80K
100K


CockroachDB 22.2
Workload: KV, 50% Reads - Concurrency: 512
AMD Ryzen 9 5950X 16-Core - eVGA NVIDIA GeForce GTX
SE +/- 172.51, N = 3
ops/s, More Is Better
78629.8
20K
40K
60K
80K
100K
CockroachDB 22.2
Workload: KV, 10% Reads - Concurrency: 512
AMD Ryzen 9 5950X 16-Core - eVGA NVIDIA GeForce GTX
SE +/- 109.34, N = 3
ops/s, More Is Better
65180.9
14K
28K
42K
56K
70K
CockroachDB 22.2
Workload: KV, 60% Reads - Concurrency: 256
AMD Ryzen 9 5950X 16-Core - eVGA NVIDIA GeForce GTX
SE +/- 717.45, N = 3
ops/s, More Is Better
87213.5
20K
40K
60K
80K
100K
CockroachDB 22.2
Workload: KV, 95% Reads - Concurrency: 256
AMD Ryzen 9 5950X 16-Core - eVGA NVIDIA GeForce GTX
SE +/- 538.97, N = 3
ops/s, More Is Better
103867.6
20K
40K
60K
80K
100K
CockroachDB 22.2
Workload: KV, 10% Reads - Concurrency: 256
AMD Ryzen 9 5950X 16-Core - eVGA NVIDIA GeForce GTX
SE +/- 443.12, N = 3
ops/s, More Is Better
69678.0
15K
30K
45K
60K
75K
CockroachDB 22.2
Workload: KV, 50% Reads - Concurrency: 256
AMD Ryzen 9 5950X 16-Core - eVGA NVIDIA GeForce GTX
SE +/- 374.64, N = 3
ops/s, More Is Better
82916.3
20K
40K
60K
80K
100K

CockroachDB 22.2

Workload: KV, 10% Reads - Concurrency: 128



CockroachDB 22.2

Workload: KV, 60% Reads - Concurrency: 128



CockroachDB 22.2

Workload: KV, 50% Reads - Concurrency: 128



CockroachDB 22.2

Workload: KV, 95% Reads - Concurrency: 128



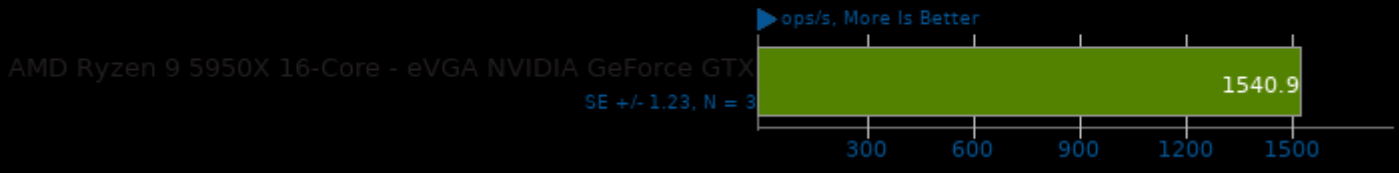
CockroachDB 22.2

Workload: MoVR - Concurrency: 256



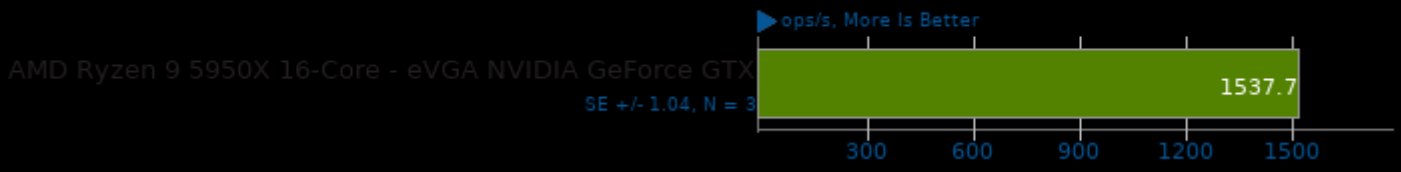
CockroachDB 22.2

Workload: MoVR - Concurrency: 128



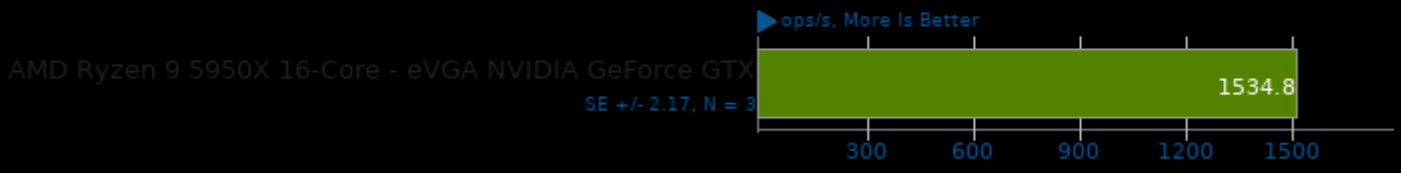
CockroachDB 22.2

Workload: MoVR - Concurrency: 512



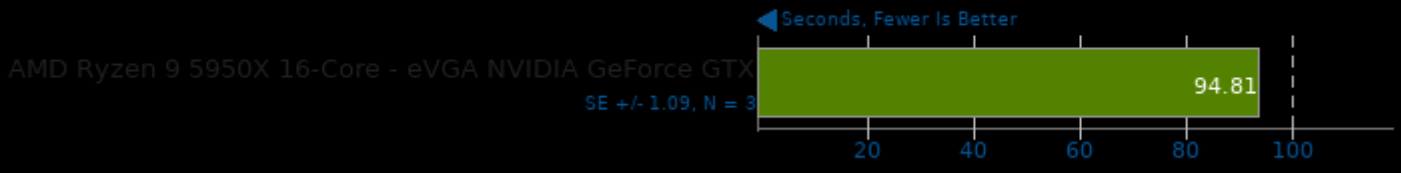
CockroachDB 22.2

Workload: MoVR - Concurrency: 1024



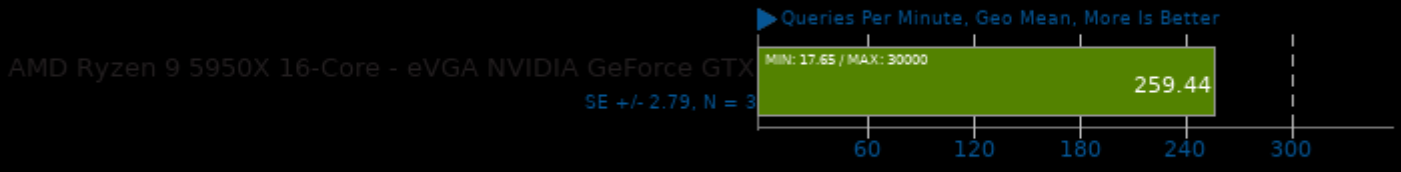
Numenta Anomaly Benchmark 1.1

Detector: KNN CAD



ClickHouse 22.5.4.19

100M Rows Web Analytics Dataset, Third Run



1. ClickHouse server version 22.5.4.19 (official build).

ClickHouse 22.5.4.19

100M Rows Web Analytics Dataset, Second Run



1. ClickHouse server version 22.5.4.19 (official build).

ClickHouse 22.5.4.19

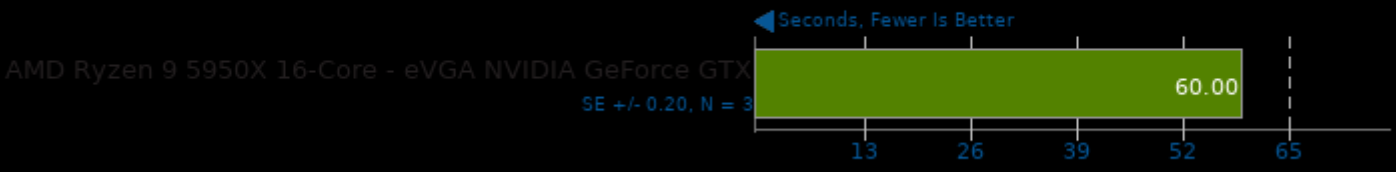
100M Rows Web Analytics Dataset, First Run / Cold Cache



1. ClickHouse server version 22.5.4.19 (official build).

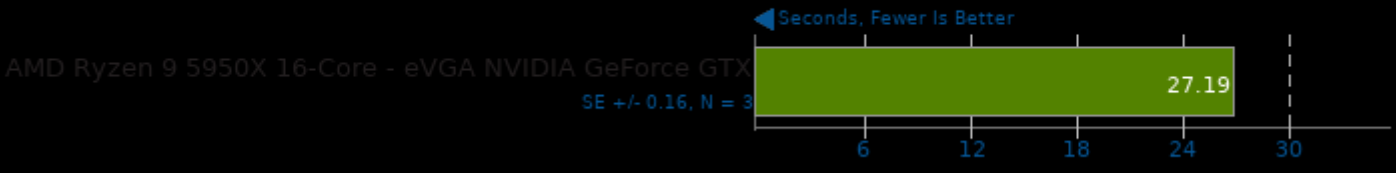
Numenta Anomaly Benchmark 1.1

Detector: Earthgecko Skyline



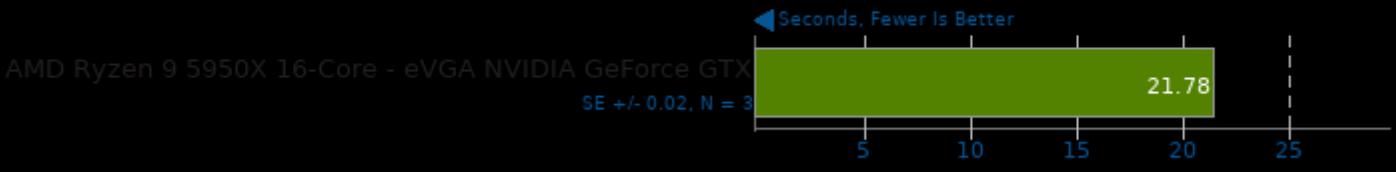
Numenta Anomaly Benchmark 1.1

Detector: Contextual Anomaly Detector OSE



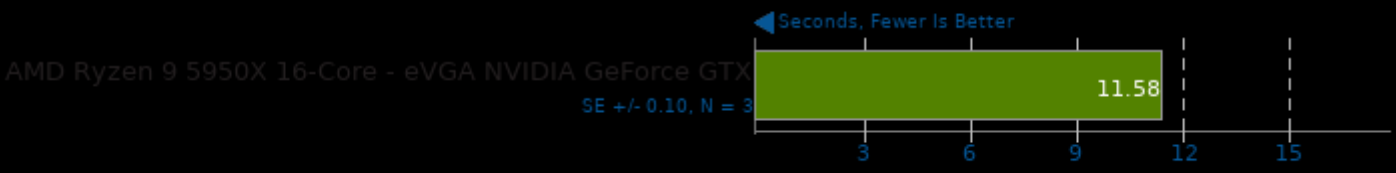
Numenta Anomaly Benchmark 1.1

Detector: Bayesian Changepoint



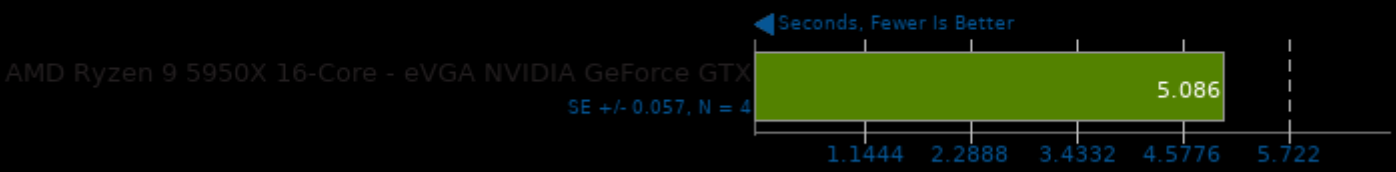
Numenta Anomaly Benchmark 1.1

Detector: Relative Entropy



Numenta Anomaly Benchmark 1.1

Detector: Windowed Gaussian



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