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clickhouse 7950x

AMD Ryzen 9 7950X 16-Core testing with a ASUS ROG CROSSHAIR X670E HERO (0805 BIOS) and AMD Radeon RX 6800 XT 16GB on Ubuntu 22.10 via the Phoronix Test Suite.

Test Systems:

a

b

c

d

e

Processor: AMD Ryzen 9 7950X 16-Core @ 4.50GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG CROSSHAIR X670E HERO (0805 BIOS), Chipset: AMD Device 14d8, Memory: 32GB, Disk: Western Digital WD_BLACK SN850X

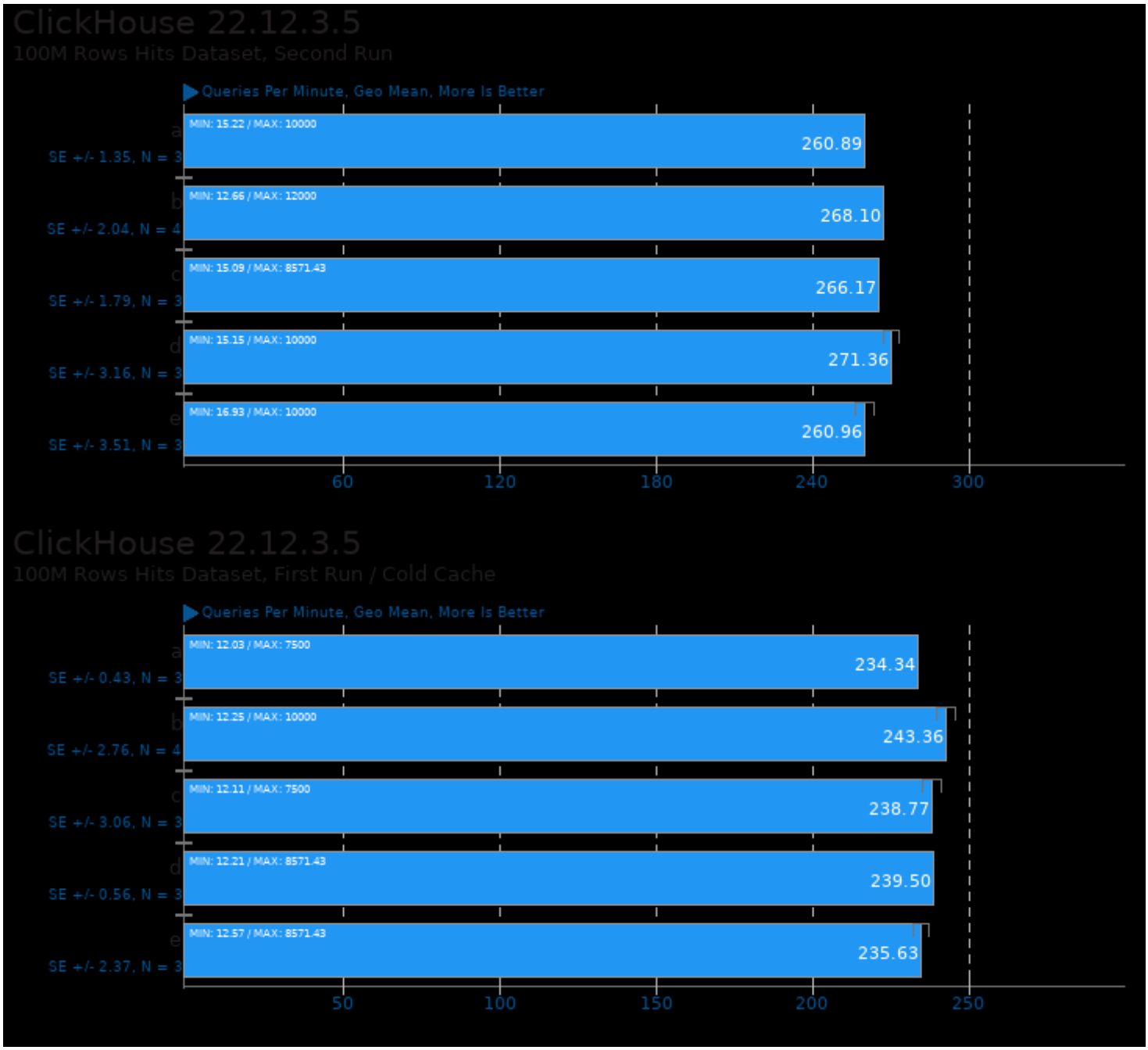
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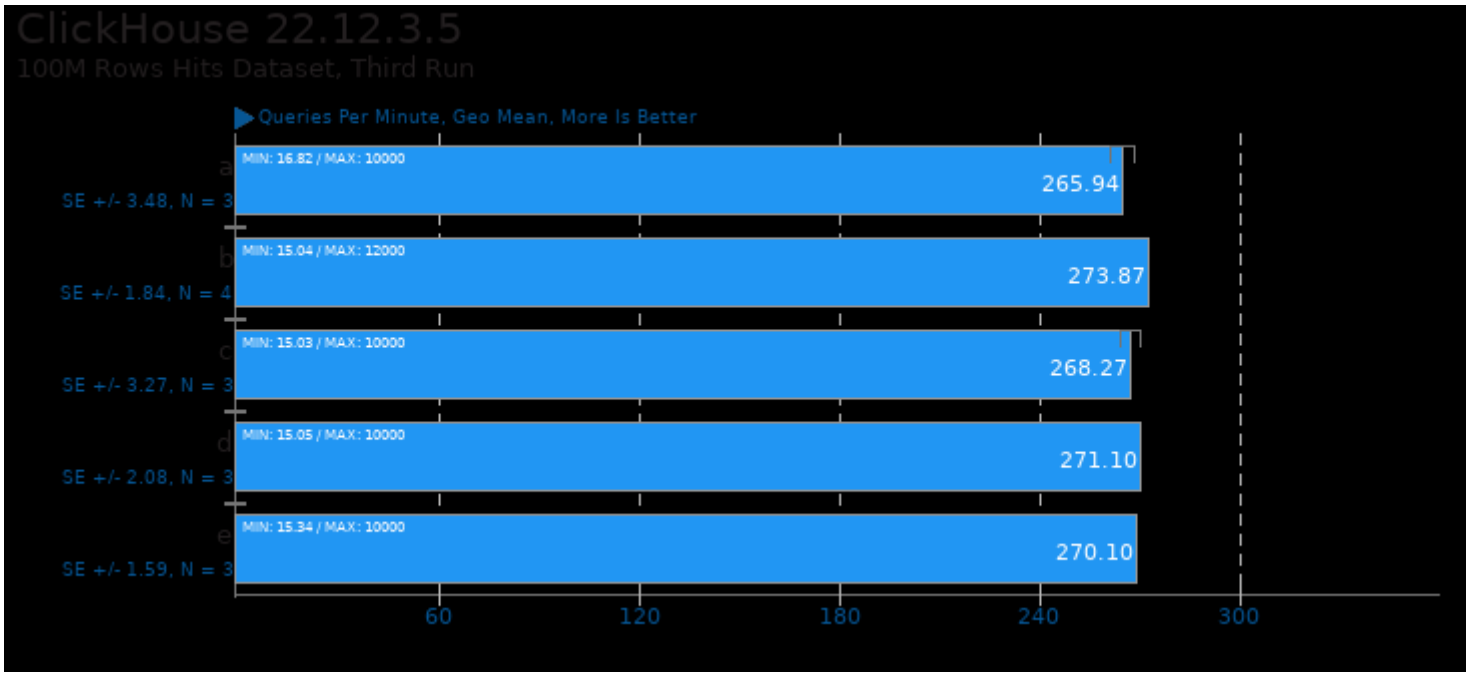
1000GB + 2000GB, Graphics: AMD Radeon RX 6800 XT 16GB (2575/1000MHz), Audio: AMD Navi 21/23, Monitor: ASUS MG28U, Network: Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Ubuntu 22.10, Kernel: 6.2.0-rc1-phx (x86_64), Desktop: GNOME Shell 43.1, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.2.1 (LLVM 15.0.2 DRM 3.49), Vulkan: 1.3.224, Compiler: GCC 12.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa601203
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	d	e
ClickHouse - 1.R.H.D.S.R (Queries/min, Geo Mean)	**260.89**	268.10	266.17	**271.36**	260.96
Normalized	96.14%	98.8%	98.09%	100%	96.17%
Standard Deviation	0.9%	1.5%	1.2%	2%	2.3%
ClickHouse - 1.R.H.D.F.R.C.C (Queries/min, Geo Mean)	**234.34**	**243.36**	238.77	239.50	235.63
Normalized	96.29%	100%	98.11%	98.41%	96.82%
Standard Deviation	0.3%	2.3%	2.2%	0.4%	1.7%
ClickHouse - 1.R.H.D.T.R (Queries/min, Geo Mean)	**265.94**	**273.87**	268.27	271.10	270.10
Normalized	97.1%	100%	97.96%	98.99%	98.62%
Standard Deviation	2.3%	1.3%	2.1%	1.3%	1%


ClickHouse 22.12.3.5
100M Rows Hits Dataset, Second Run
Queries Per Minute, Geo Mean, More Is Better
a
MIN: 15.22 / MAX: 10000
260.89
SE +/- 1.35, N = 3
b
MIN: 12.66 / MAX: 12000
268.10
SE +/- 2.04, N = 4
c
MIN: 15.09 / MAX: 8571.43
266.17
SE +/- 1.79, N = 3
d
MIN: 15.15 / MAX: 10000
271.36
SE +/- 3.16, N = 3
e
MIN: 16.93 / MAX: 10000
260.96
SE +/- 3.51, N = 3
60
120
180
240
300
ClickHouse 22.12.3.5
100M Rows Hits Dataset, First Run / Cold Cache
Queries Per Minute, Geo Mean, More Is Better
a
MIN: 12.03 / MAX: 7500
234.34
SE +/- 0.43, N = 3
b
MIN: 12.25 / MAX: 10000
243.36
SE +/- 2.76, N = 4
c
MIN: 12.11 / MAX: 7500
238.77
SE +/- 3.06, N = 3
d
MIN: 12.21 / MAX: 8571.43
239.50
SE +/- 0.56, N = 3
e
MIN: 12.57 / MAX: 8571.43
235.63
SE +/- 2.37, N = 3
50
100
150
200
250



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 04:32.