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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 66% of the tests.

Based on the geometric mean of all complete results, the fastest (a) was 1x the speed of the slowest (a). b was 1x the speed of c and a was 1x the speed of b.

Test Systems:

a

b

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c

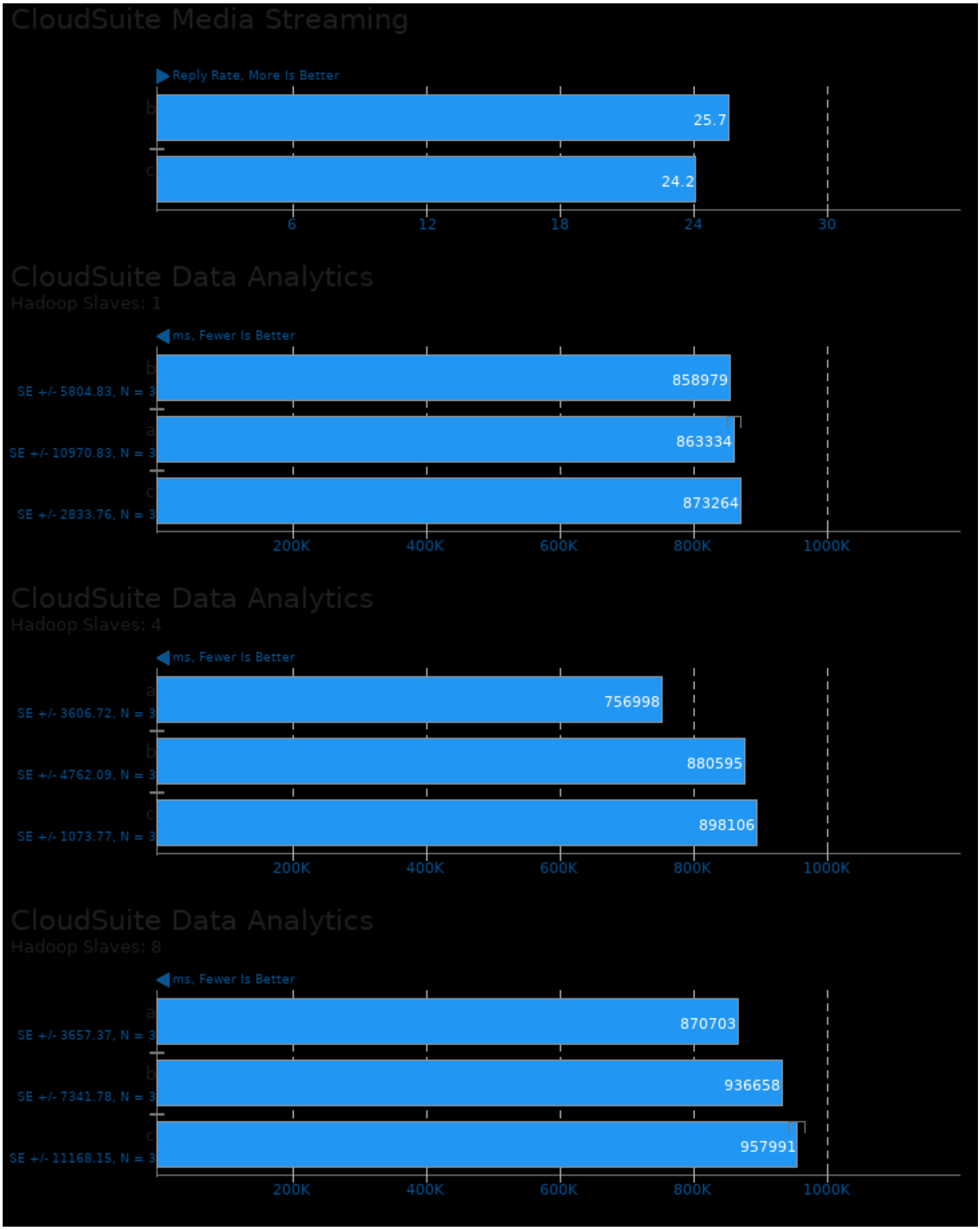
Processor: AMD Ryzen 9 5900HX @ 4.89GHz (8 Cores / 16 Threads), Motherboard: ASUS G513QY v1.0 (G513QY.318 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 2 x 8 GB DDR4-3200MT/s 4ATF1G64HZ-3G2E2, Disk: 512GB SAMSUNG MZVLQ512HBLU-00B00, Graphics: ASUS AMD Cezanne 512MB (2500/1000MHz), Audio: AMD Navi 21/23, Monitor: LQ156M1JW25, Network: Realtek RTL8111/8168/8411 + MEDIATEK MT7921 802.11ax PCI

OS: Ubuntu 22.10, Kernel: 5.19.0-23-generic (x86_64), Desktop: GNOME Shell 43.0, Display Server: X Server, 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

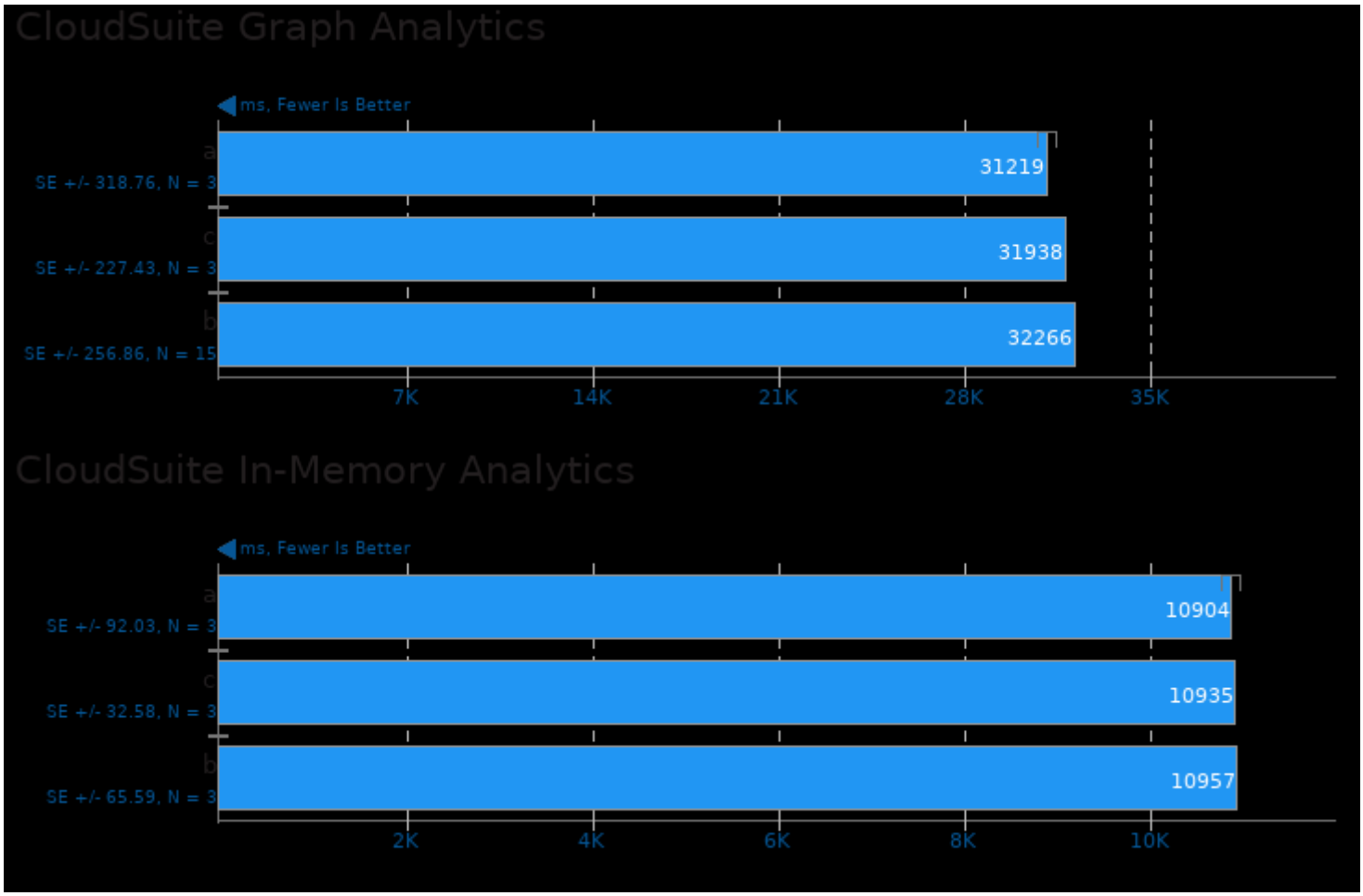
Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: amd-pstate schedutil (Boost: Enabled) - Platform Profile: balanced - CPU Microcode: 0xa50000c - ACPI Profile: balanced
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not 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
CloudSuite Media Streaming (Reply Rate)		**25.7**	**24.2**
Normalized		100%	94.16%
CloudSuite Data Analytics - 1 (ms)	863334	**858979**	**873264**
Normalized	99.5%	100%	98.36%
Standard Deviation	2.2%	1.2%	0.6%
CloudSuite Data Analytics - 4 (ms)	**756998**	880595	**898106**
Normalized	100%	85.96%	84.29%
Standard Deviation	0.8%	0.9%	0.2%
CloudSuite Data Analytics - 8 (ms)	**870703**	936658	**957991**
Normalized	100%	92.96%	90.89%
Standard Deviation	0.7%	1.4%	2%
CloudSuite Graph Analytics (ms)	**31219**	**32266**	31938
Normalized	100%	96.76%	97.75%
Standard Deviation	1.8%	3.1%	1.2%
CloudSuite In-Memory Analytics (ms)	**10904**	**10957**	10935
Normalized	100%	99.52%	99.72%
Standard Deviation	1.5%	1%	0.5%

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 19:36.