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cloudsuite threadripper

AMD Ryzen Threadripper 3990X 64-Core testing with a Gigabyte TRX40 AORUS PRO WIFI (F4p BIOS) and AMD Radeon RX 5700 8GB on Ubuntu 22.10 via the Phoronix Test Suite.

Automated Executive Summary

c had the most wins, coming in first place for 44% 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

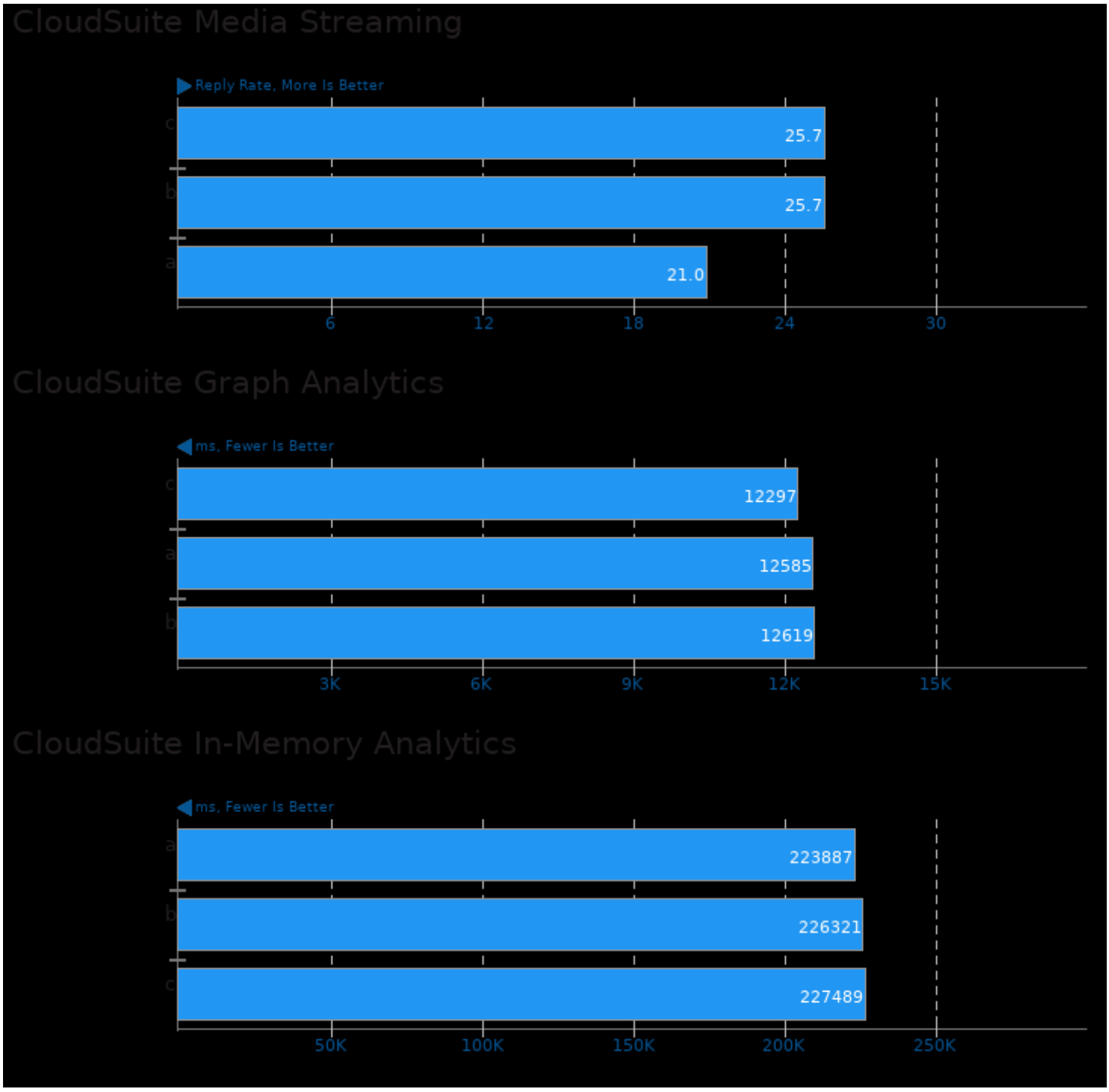
Processor: AMD Ryzen Threadripper 3990X 64-Core @ 2.90GHz (64 Cores / 128 Threads), Motherboard: Gigabyte TRX40 AORUS PRO WIFI (F4p BIOS), Chipset: AMD Starship/Matisse, Memory: 128GB, Disk: Samsung SSD 970 EVO Plus 500GB, Graphics: AMD Radeon RX 5700 8GB (1750/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: DELL P2415Q, Network: Intel I211 + Intel Wi-Fi 6 AX200

OS: Ubuntu 22.10, Kernel: 6.0.0-060000rc7daily20220927-generic (x86_64), Desktop: GNOME Shell 43.0, Display Server: X Server 1.21.1.4 + Wayland, OpenGL: 4.6 Mesa 22.2.1 (LLVM 15.0.2 DRM 3.48), 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: 0x8301055
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Mitigation of untrained return thunk; SMT enabled with STIBP protection + 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 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)	**21**	**25.7**	**25.7**
Normalized	81.71%	100%	100%
CloudSuite Graph Analytics (ms)	12585	**12619**	**12297**
Normalized	97.71%	97.45%	100%
CloudSuite In-Memory Analytics (ms)	**223887**	226321	**227489**
Normalized	100%	98.92%	98.42%
CloudSuite Data Analytics - 4 (ms)	833063	**838336**	**825892**
Normalized	99.14%	98.52%	100%
Standard Deviation		0.8%	
CloudSuite Data Analytics - 128 (ms)	899529	**898709**	**907959**
Normalized	99.91%	100%	98.98%
CloudSuite Data Analytics - 8 (ms)	834124	**839885**	**831411**
Normalized	99.67%	98.99%	100%
Standard Deviation		1%	
CloudSuite Data Analytics - 64 (ms)	**873847**	**867478**	868419
Normalized	99.27%	100%	99.89%
CloudSuite Data Analytics - 1 (ms)	**880397**	**886469**	883543
Normalized	100%	99.32%	99.64%
Standard Deviation		0.3%	
CloudSuite Data Analytics - 32 (ms)	**847720**		**847357**
Normalized	99.96%		100%

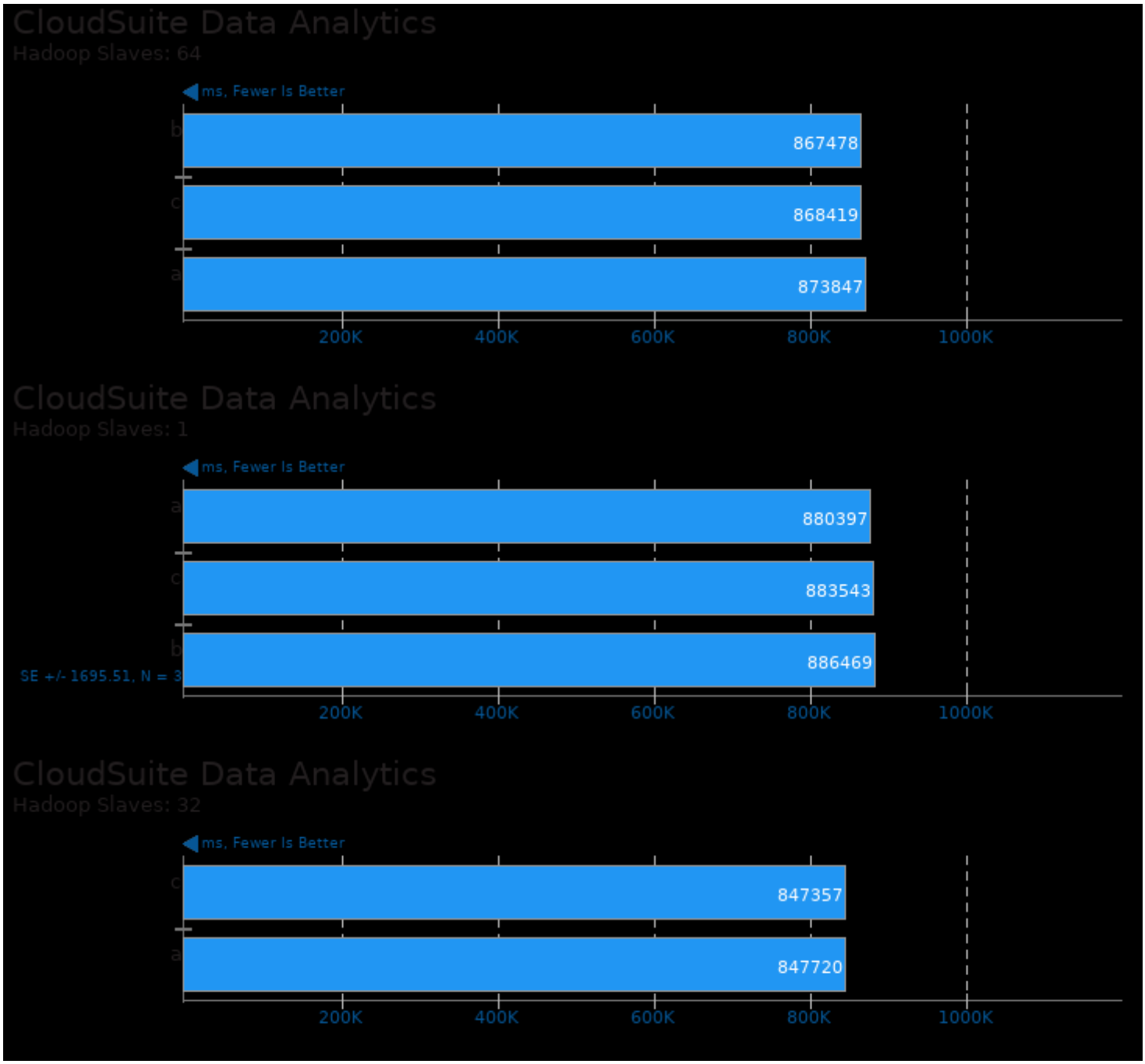
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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 15:37.