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Intel Core i9-13900K testing with a ASUS PRIME Z790-P WIFI (0602 BIOS) and AMD Radeon RX 6800 XT 16GB on Ubuntu 22.10 via the Phoronix Test Suite.

Automated Executive Summary

b had the most wins, coming in first place for 57% of the tests.

Based on the geometric mean of all complete results, the fastest (Intel Core i9-13900K - AMD Radeon RX 6800 XT 16GB -) was 1x the speed of the slowest (Intel Core i9-13900K - AMD Radeon RX 6800 XT 16GB -). b was 1x the speed of c and Intel Core i9-13900K - AMD Radeon RX 6800 XT 16GB - was 1x the speed of b.

Test Systems:

Intel Core i9-13900K - AMD Radeon RX 6800 XT 16GB -

b

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c

Processor: Intel Core i9-13900K @ 4.00GHz (24 Cores / 32 Threads), Motherboard: ASUS PRIME Z790-P WIFI (0602 BIOS), Chipset: Intel Device 7a27, Memory: 2 x 16 GB DDR5-6000MT/s Corsair CMK32GX5M2B6000C36, Disk: 1000GB Western Digital WDS100T1X0E-00AFY0, Graphics: AMD Radeon RX 6800 XT 16GB (2575/1000MHz), Audio: Realtek ALC897, Monitor: ASUS VP28U, Network: Realtek RTL8125 2.5GbE + Intel Device 7a70

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: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: intel_pstate powersave (EPP: balance_performance) - CPU Microcode: 0x10e - Thermald 2.5.1
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: Mitigation of Enhanced IBRS IBPB: conditional RSB filling PBRSB-eIBRS: SW sequence + srbds: Not affected + tsx_async_abort: Not affected

	Intel Core i9-13900K - AMD Radeon RX 6800 XT 16GB -	b	c
CloudSuite Media Streaming (Reply Rate)	21.15	**25.75**	**15**
Normalized	82.14%	100%	58.25%
CloudSuite Graph Analytics (ms)	**10299**	**10191**	10295
Normalized	98.95%	100%	98.99%
Standard Deviation	2.3%	2.3%	1.7%
CloudSuite Data Analytics - 8 (ms)	553988	**550884**	**556081**
Normalized	99.44%	100%	99.07%
Standard Deviation	0.5%	0.5%	0.5%
CloudSuite Data Analytics - 4 (ms)	**555670**	**550970**	553624
Normalized	99.15%	100%	99.52%
Standard Deviation	0.3%	0.2%	0.5%
CloudSuite In-Memory Analytics (ms)	10214	**10294**	**10212**
Normalized	99.98%	99.2%	100%
Standard Deviation	1.3%	0.6%	1.6%
CloudSuite Data Analytics - 32 (ms)	**547132**	**551182**	550401
Normalized	100%	99.27%	99.41%
Standard Deviation	0.8%	0.2%	0.9%
CloudSuite Data Analytics - 1 (ms)	**625005**	625857	**625892**
Normalized	100%	99.86%	99.86%
Standard Deviation	0.1%	0.2%	0.1%

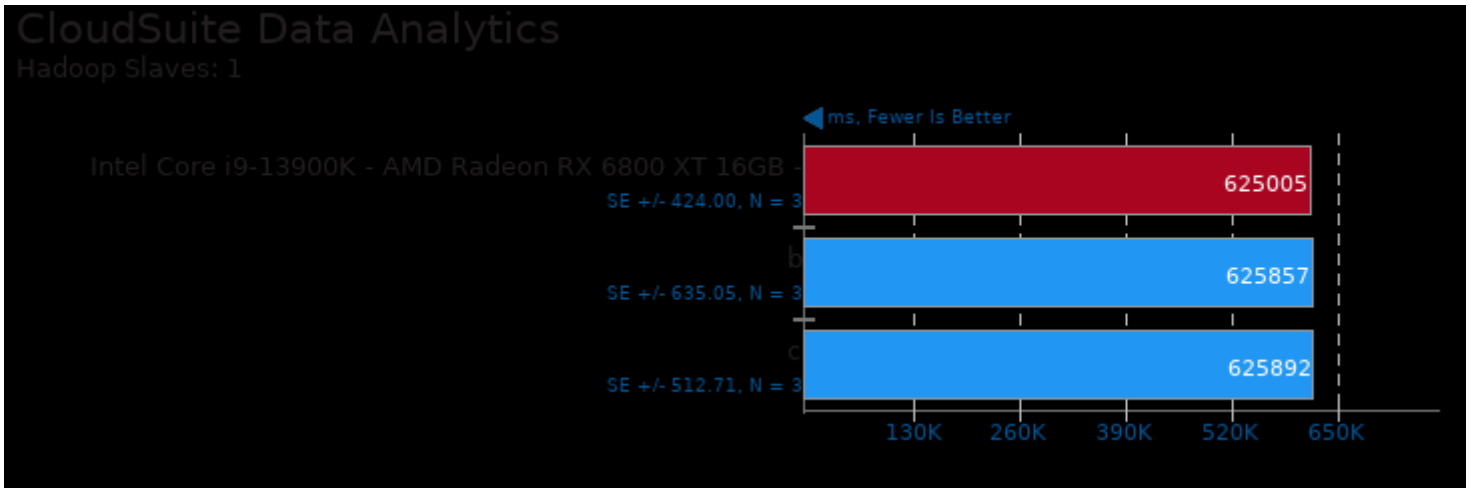
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