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AMD Ryzen 7 PRO 6850U testing with a LENOVO 21CM0001US (R22ET51W 1.21 BIOS) and AMD Radeon 680M 1GB on Ubuntu 22.10 via the Phoronix Test Suite.

Automated Executive Summary

a had the most wins, coming in first place for 60% 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 7 PRO 6850U @ 4.77GHz (8 Cores / 16 Threads), Motherboard: LENOVO 21CM0001US (R22ET51W 1.21 BIOS), Chipset: AMD Device 14b5, Memory: 4 x GB LPDDR5-6400MT/s, Disk: 512GB Micron MTFDKBA512TFK, Graphics: AMD Radeon 680M 1GB (2200/400MHz), Audio: AMD Rembrandt Radeon HD Audio, Network: Qualcomm QCNFA765

OS: Ubuntu 22.10, Kernel: 6.1.0-060100rc2daily20221028-generic (x86_64), Desktop: GNOME Shell 43.0, Display Server: X Server, OpenGL: 4.6 Mesa 22.2.1 (LLVM 15.0.2 DRM 3.49), Vulkan: 1.3.224, Compiler: GCC 12.2.0, File-System: ext4, Screen Resolution: 1920x1200

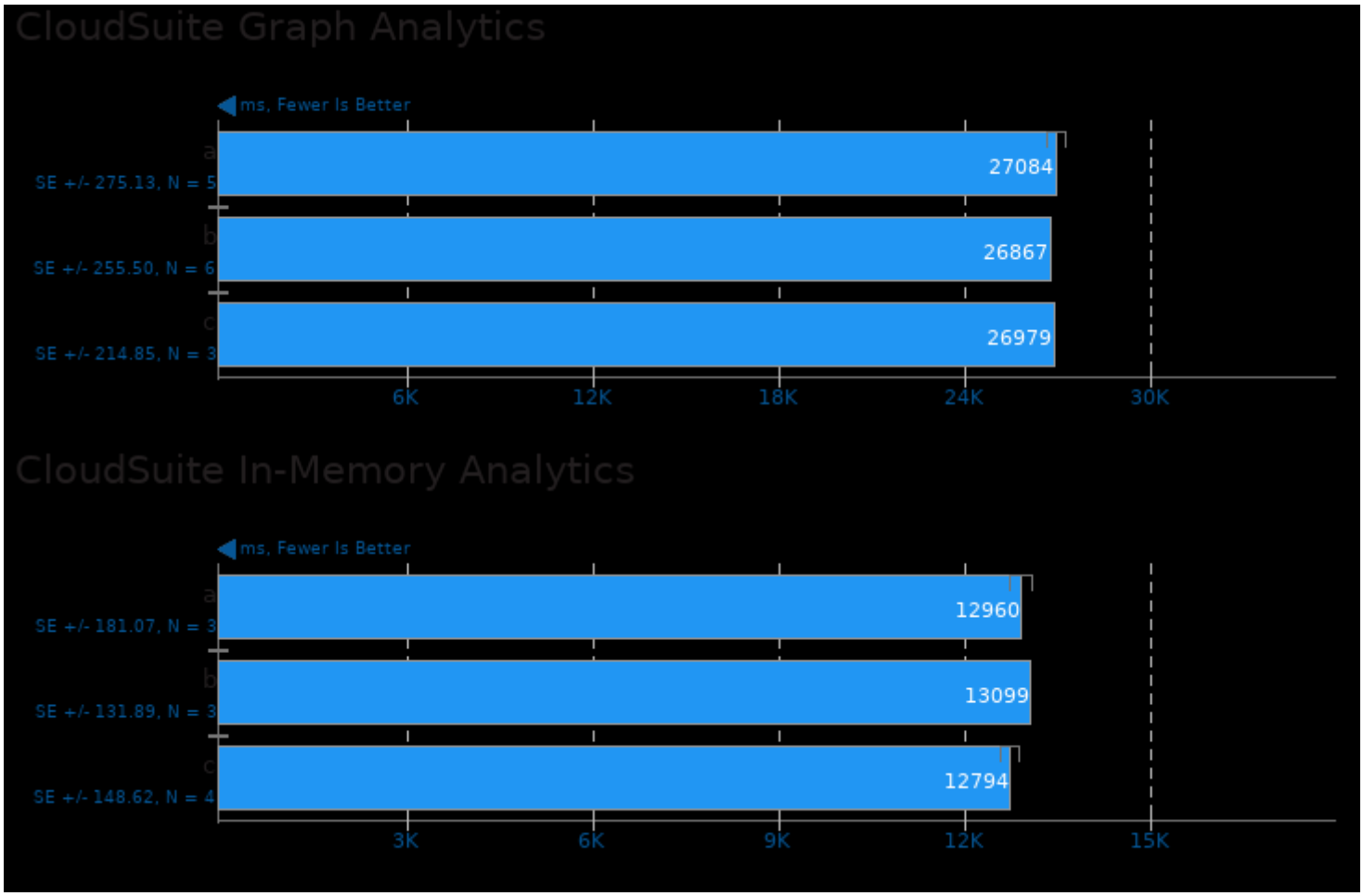
Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: amd-pstate schedutil (Boost: Enabled) - Platform Profile: balanced - CPU Microcode: 0xa404102 - ACPI Profile: balanced
Python Notes: Python 3.10.7
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not 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 Data Analytics - 8 (ms)	**826940**	**828535**	827313
Normalized	100%	99.81%	99.95%
Standard Deviation	0.2%	0.7%	1.1%
CloudSuite Data Analytics - 1 (ms)	**875096**	875355	**876584**
Normalized	100%	99.97%	99.83%
Standard Deviation	0.3%	0.6%	0.3%
CloudSuite Data Analytics - 4 (ms)	**813292**	**819437**	815114
Normalized	100%	99.25%	99.78%
Standard Deviation	0.7%	0.3%	0.2%
CloudSuite Graph Analytics (ms)	**27084**	**26867**	26979
Normalized	99.2%	100%	99.58%
Standard Deviation	2.3%	2.3%	1.4%
CloudSuite In-Memory Analytics (ms)	12960	**13099**	**12794**
Normalized	98.72%	97.67%	100%
Standard Deviation	2.4%	1.7%	2.3%

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 11:19.