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AMD Ryzen 7 7700X 8-Core testing with a ASRock X670E PG Lightning (1.11 BIOS) and XFX AMD Radeon RX 6400 4GB on Ubuntu 22.10 via the Phoronix Test Suite.

Test Systems:

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Processor: AMD Ryzen 7 7700X 8-Core @ 5.57GHz (8 Cores / 16 Threads), Motherboard: ASRock X670E PG Lightning (1.11 BIOS), Chipset: AMD Device 14d8, Memory: 32GB, Disk: 1000GB Western Digital WDS100T1X0E-00AFY0, Graphics: XFX AMD Radeon RX 6400 4GB (2320/1000MHz), Audio: AMD Navi 21/23, Monitor: ASUS MG28U, Network: Realtek RTL8125 2.5GbE

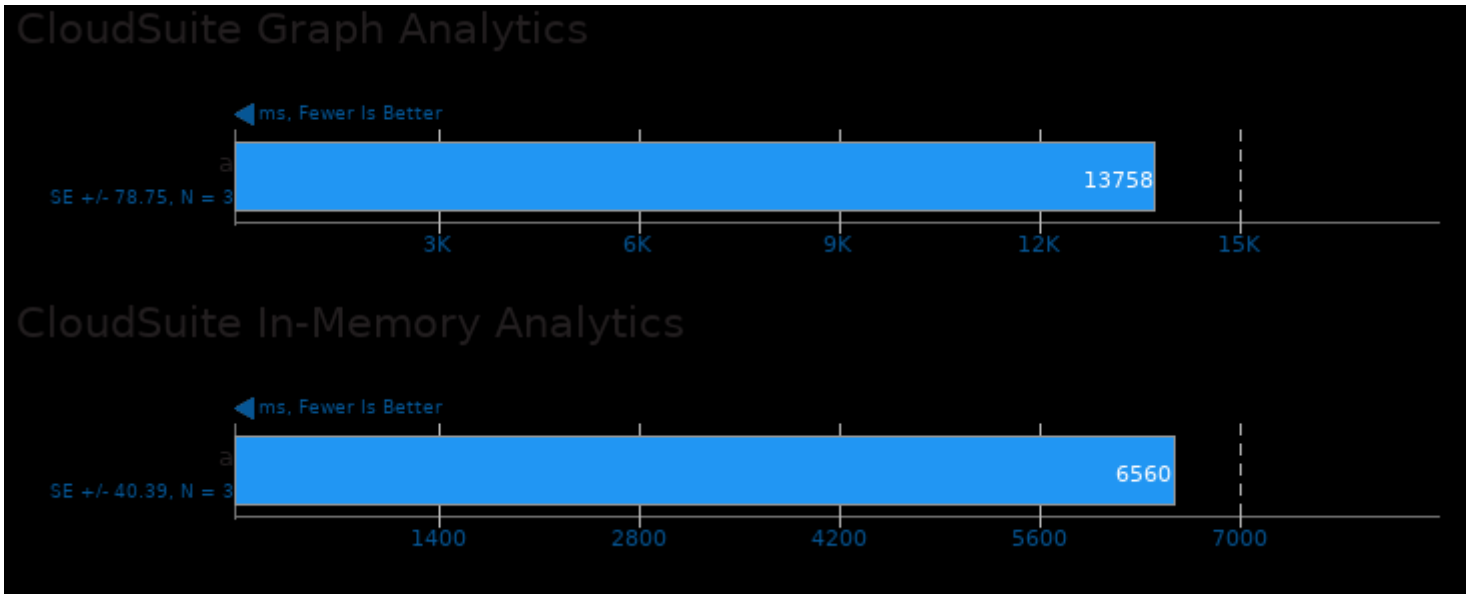
OS: Ubuntu 22.10, Kernel: 5.19.0-23-generic (x86_64), Desktop: GNOME Shell 43.0, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.2.1 (LLVM 15.0.2 DRM 3.47), Vulkan: 1.3.224, Compiler: GCC 12.2.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: amd-pstate schedutil (Boost: Enabled) - CPU Microcode: 0xa601203

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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

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CloudSuite Graph Analytics (ms)	13758
Standard Deviation	1%
CloudSuite In-Memory Analytics (ms)	6560
Standard Deviation	1.1%



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