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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

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

Based on the geometric mean of all complete results, the fastest (c) was 1.209x the speed of the slowest (a). b was 0.944x the speed of c and a was 0.876x the speed of b.

Test Systems:

a

b

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c

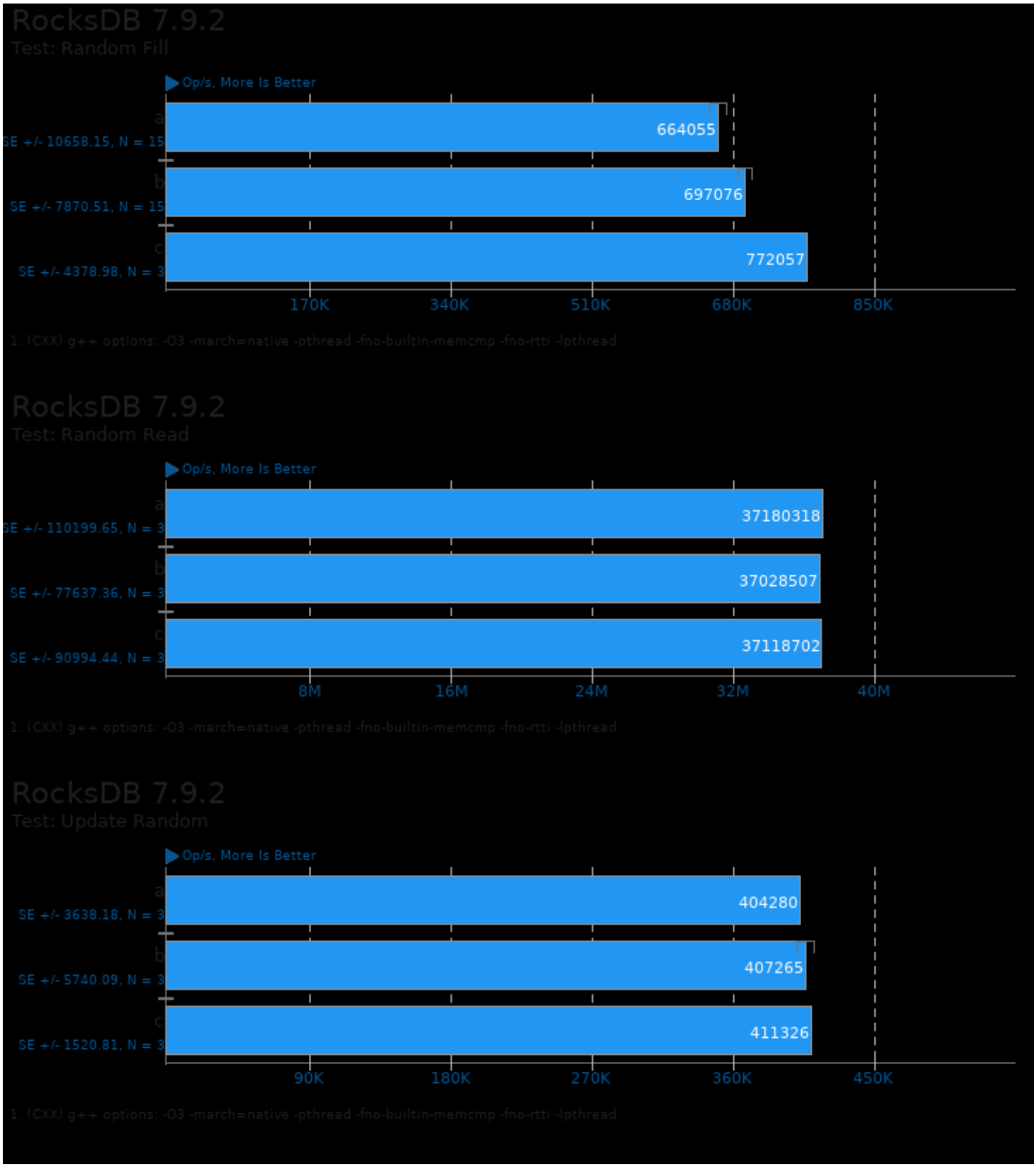
Processor: AMD Ryzen 7 PRO 6850U @ 4.77GHz (8 Cores / 16 Threads), Motherboard: LENOVO 21CM0001US (R22ET51W 1.21 BIOS), Chipset: AMD Device 14b5, Memory: 16GB, Disk: 512GB Micron MTFDKBA512TFK, Graphics: AMD Radeon 680M 1GB (2200/400MHz), Audio: AMD Rembrandt Radeon HD Audio, Network: Qualcomm QCNFA765

OS: Ubuntu 22.10, Kernel: 6.1.0-060100rc2daily20221028-generic (x86_64), Desktop: GNOME Shell 43.0, Display Server: X Server + Wayland, 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

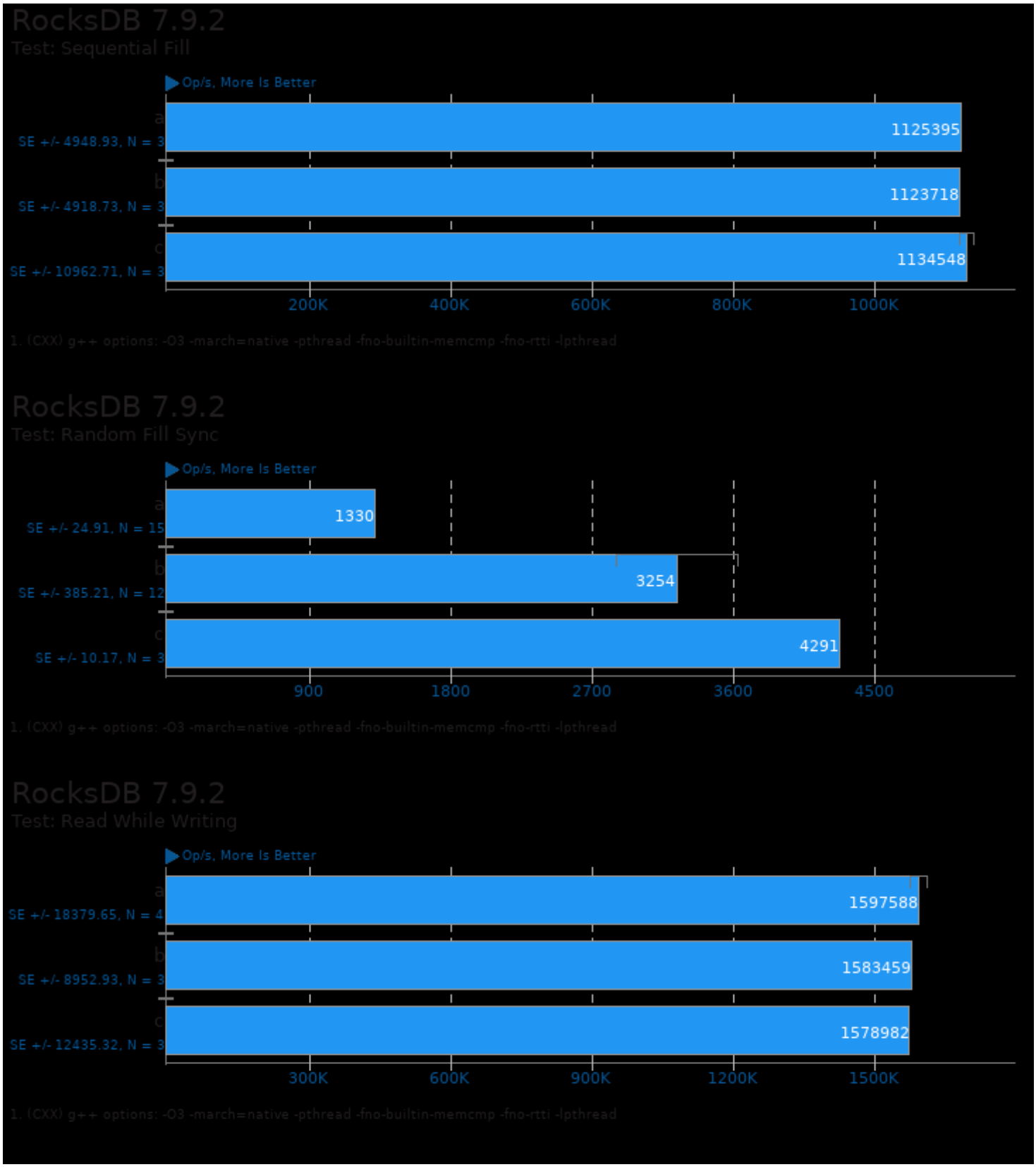
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-defaulted --enable-offload-targets=nvptx-none=/build/gcc-12-U8K4Qv/gcc-12-12.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-12-U8K4Qv/gcc-12-12.2.0/debian/tmp-gcn/usr --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: amd-pstate schedutil (Boost: Enabled) - Platform Profile: performance - CPU Microcode: 0xa404102 - ACPI Profile: performance
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
RocksDB - Rand Fill (Op/s)	**664055**	697076	**772057**
Normalized	86.01%	90.29%	100%
Standard Deviation	6.2%	4.4%	1%
RocksDB - Rand Read (Op/s)	**37180318**	**37028507**	37118702
Normalized	100%	99.59%	99.83%
Standard Deviation	0.5%	0.4%	0.4%
RocksDB - Update Rand (Op/s)	**404280**	407265	**411326**
Normalized	98.29%	99.01%	100%
Standard Deviation	1.6%	2.4%	0.6%
RocksDB - Seq Fill (Op/s)	1125395	**1123718**	**1134548**
Normalized	99.19%	99.05%	100%
Standard Deviation	0.8%	0.8%	1.7%
RocksDB - Rand Fill Sync (Op/s)	**1330**	3254	**4291**
Normalized	31%	75.83%	100%
Standard Deviation	7.3%	41%	0.4%
RocksDB - Read While Writing (Op/s)	**1597588**	1583459	**1578982**
Normalized	100%	99.12%	98.84%
Standard Deviation	2.3%	1%	1.4%
RocksDB - R.R.W.R (Op/s)	**1278916**	**1270877**	1273923
Normalized	100%	99.37%	99.61%
Standard Deviation	0.2%	0.1%	0.9%

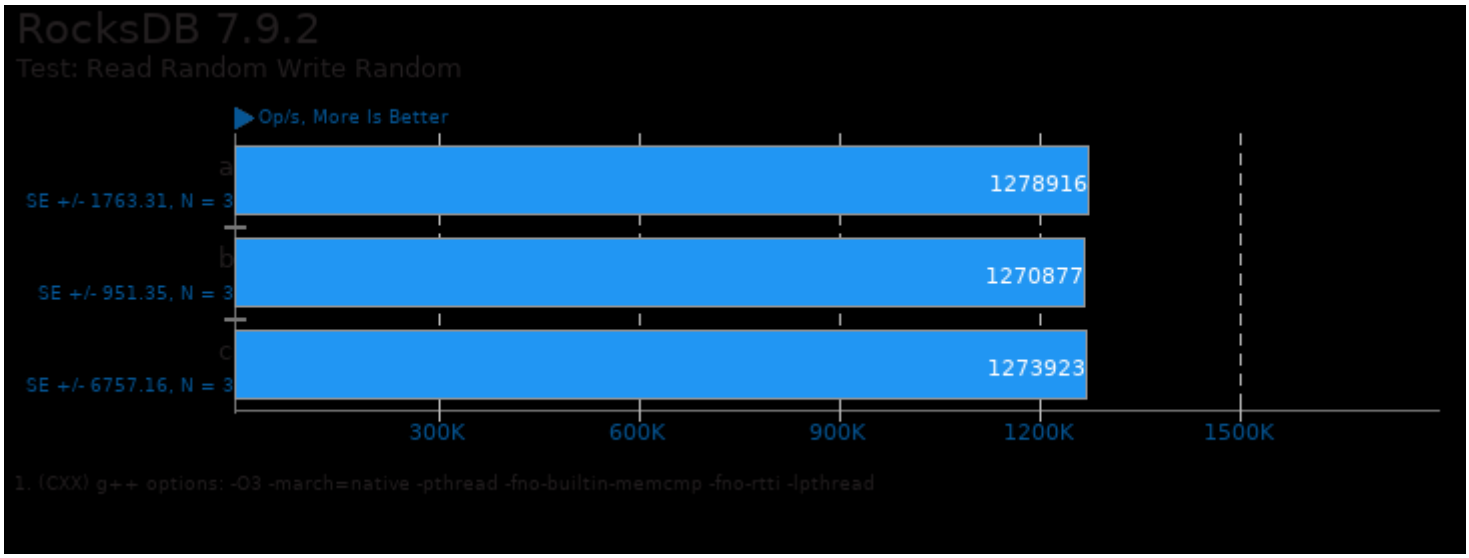
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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 10:22.