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rocksdb-tigerlake

Intel Core i7-1165G7 testing with a Dell 0GG9PT (3.11.0 BIOS) and Intel Xe TGL GT2 15GB on Ubuntu 22.10 via the Phoronix Test Suite.

Automated Executive Summary

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

Based on the geometric mean of all complete results, the fastest (a) was 1.088x the speed of the slowest (b). c was 0.958x the speed of a and b was 0.96x the speed of c.

Test Systems:

a

b

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c

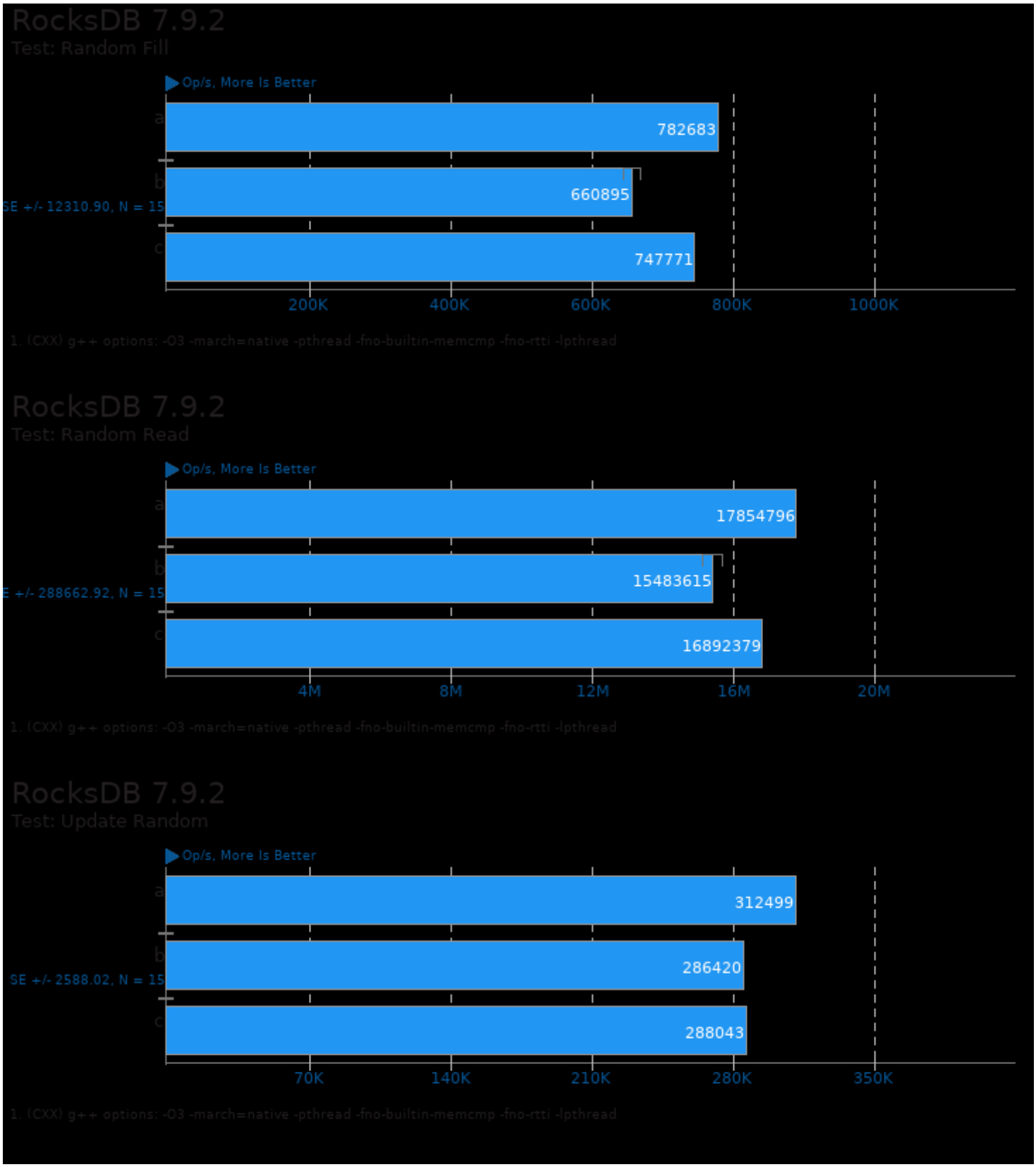
Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Dell 0GG9PT (3.11.0 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 16GB, Disk: Kioxia KBG40ZNS256G NVMe 256GB, Graphics: Intel Xe TGL GT2 15GB (1300MHz), Audio: Realtek ALC289, Network: Intel Wi-Fi 6 AX201

OS: Ubuntu 22.10, Kernel: 5.19.0-28-generic (x86_64), Desktop: GNOME Shell 43.0, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.2.1, Vulkan: 1.3.224, Compiler: GCC 12.2.0, File-System: ext4, Screen Resolution: 1920x1200

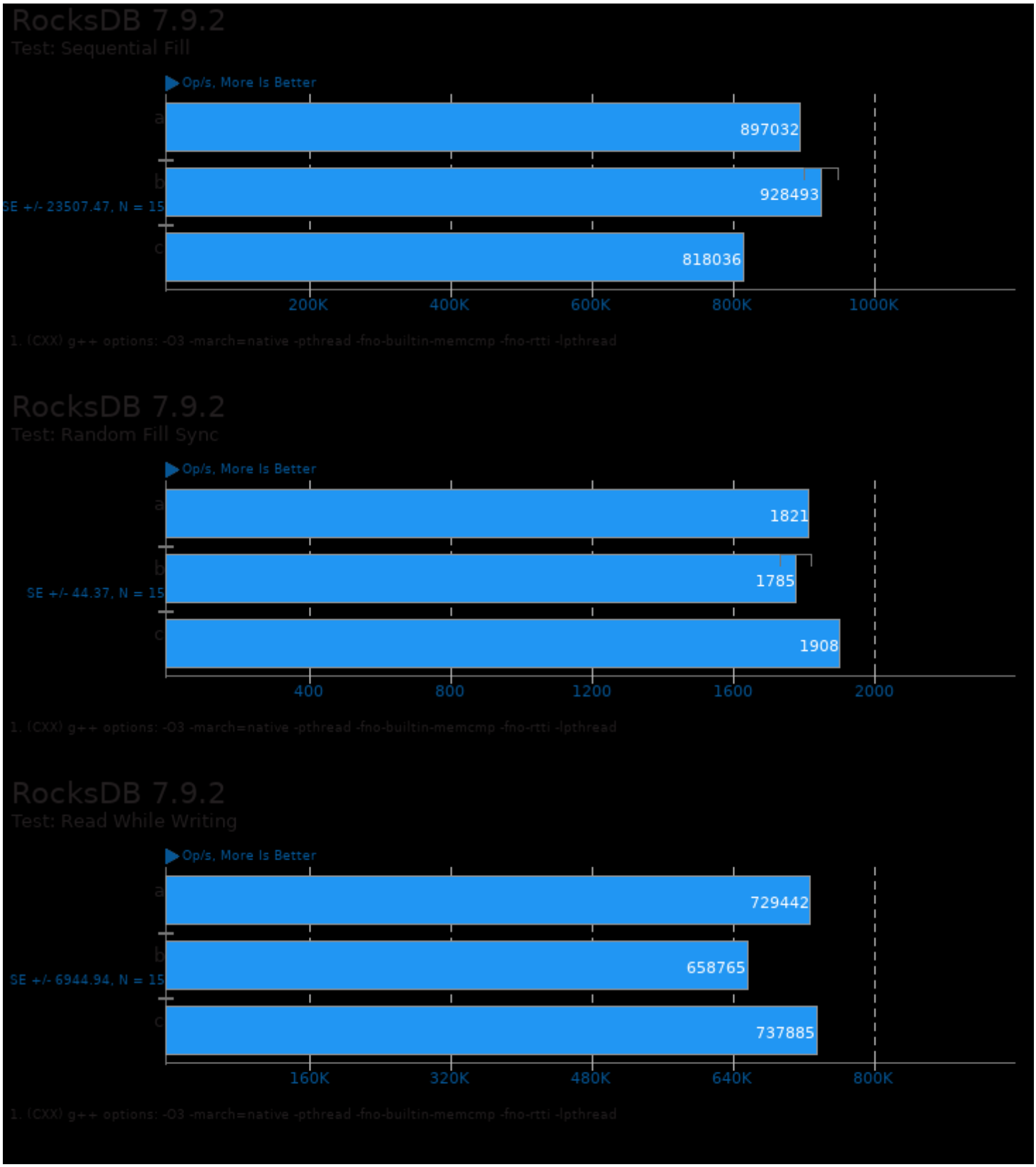
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --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: intel_pstate powersave (EPP: balance_performance) - CPU Microcode: 0xa4 - 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

	a	b	c
RocksDB - Rand Fill (Op/s)	**782683**	**660895**	747771
Normalized	100%	84.44%	95.54%
Standard Deviation		7.2%	
RocksDB - Rand Read (Op/s)	**17854796**	**15483615**	16892379
Normalized	100%	86.72%	94.61%
Standard Deviation		7.2%	
RocksDB - Update Rand (Op/s)	**312499**	**286420**	288043
Normalized	100%	91.65%	92.17%
Standard Deviation		3.5%	
RocksDB - Seq Fill (Op/s)	897032	**928493**	**818036**
Normalized	96.61%	100%	88.1%
Standard Deviation		9.8%	
RocksDB - Rand Fill Sync (Op/s)	1821	**1785**	**1908**
Normalized	95.44%	93.55%	100%
Standard Deviation		9.6%	
RocksDB - Read While Writing (Op/s)	729442	**658765**	**737885**
Normalized	98.86%	89.28%	100%
Standard Deviation		4.1%	
RocksDB - R.R.W.R (Op/s)	**732940**	**661289**	673916
Normalized	100%	90.22%	91.95%
Standard Deviation		2.9%	

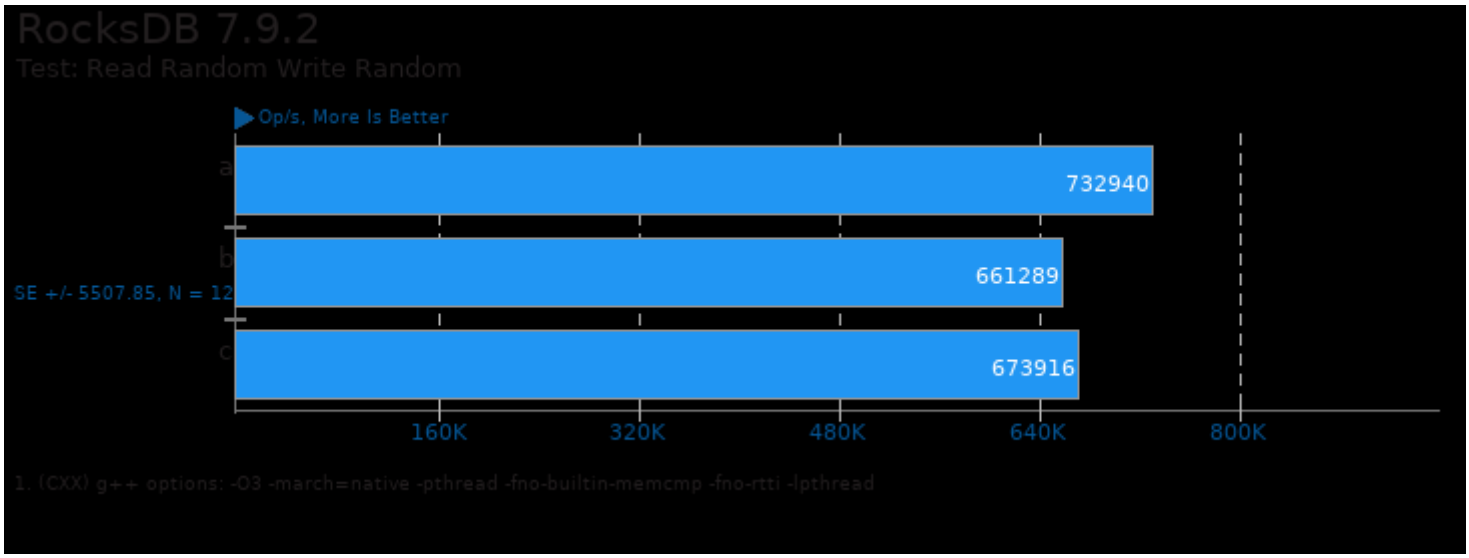
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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 22:18.