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emw;s

Intel Core i7-1185G7 testing with a Dell 0DXP1F (3.7.0 BIOS) and Intel Xe TGL GT2 15GB on Ubuntu 22.04 via the Phoronix Test Suite.

Automated Executive Summary

c had the most wins, coming in first place for 42% of the tests.

Based on the geometric mean of all complete results, the fastest (a) was 1.047x the speed of the slowest (c). b was 0.974x the speed of a and c was 0.981x the speed of b.

Test Systems:

a

b

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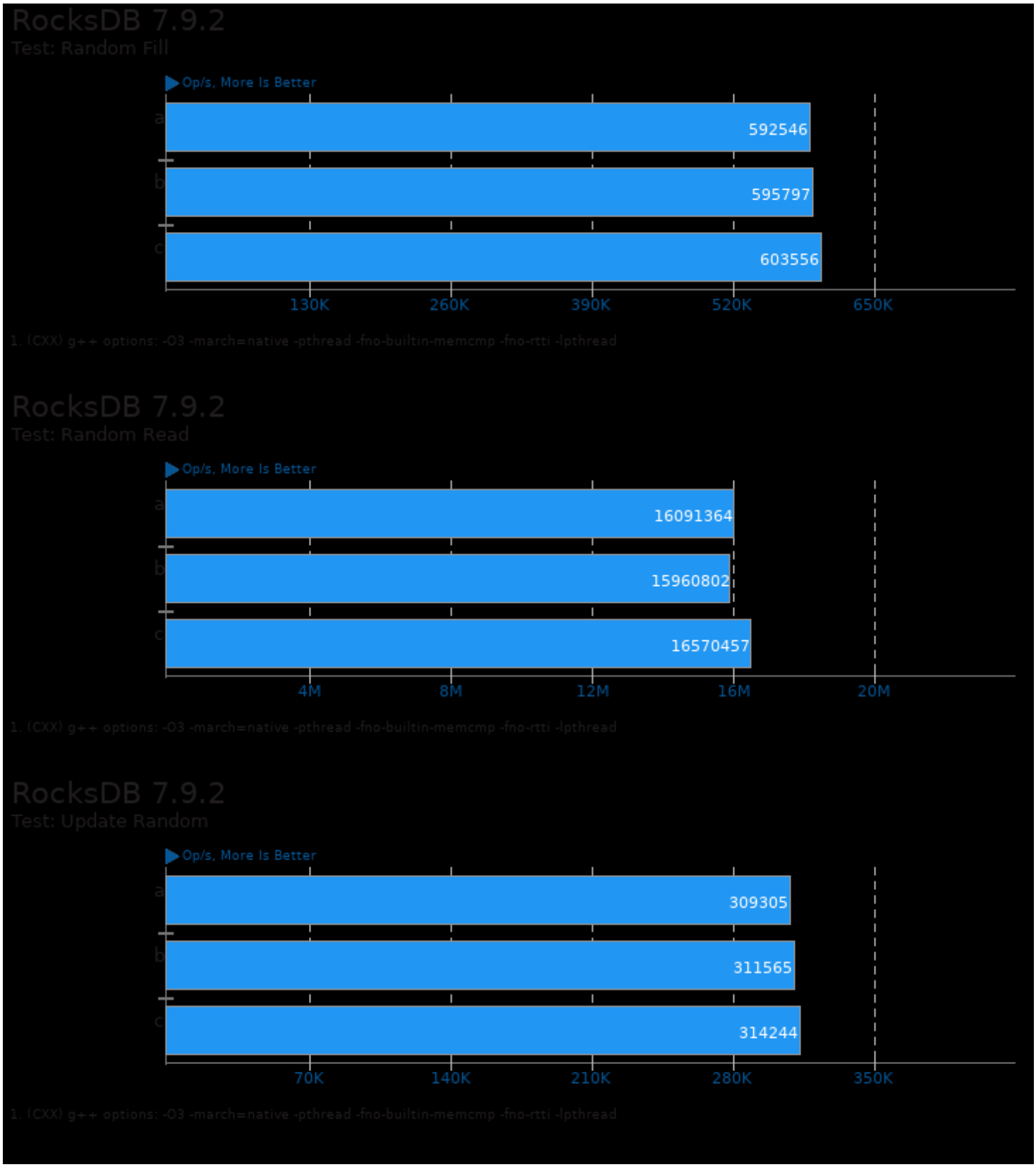
c

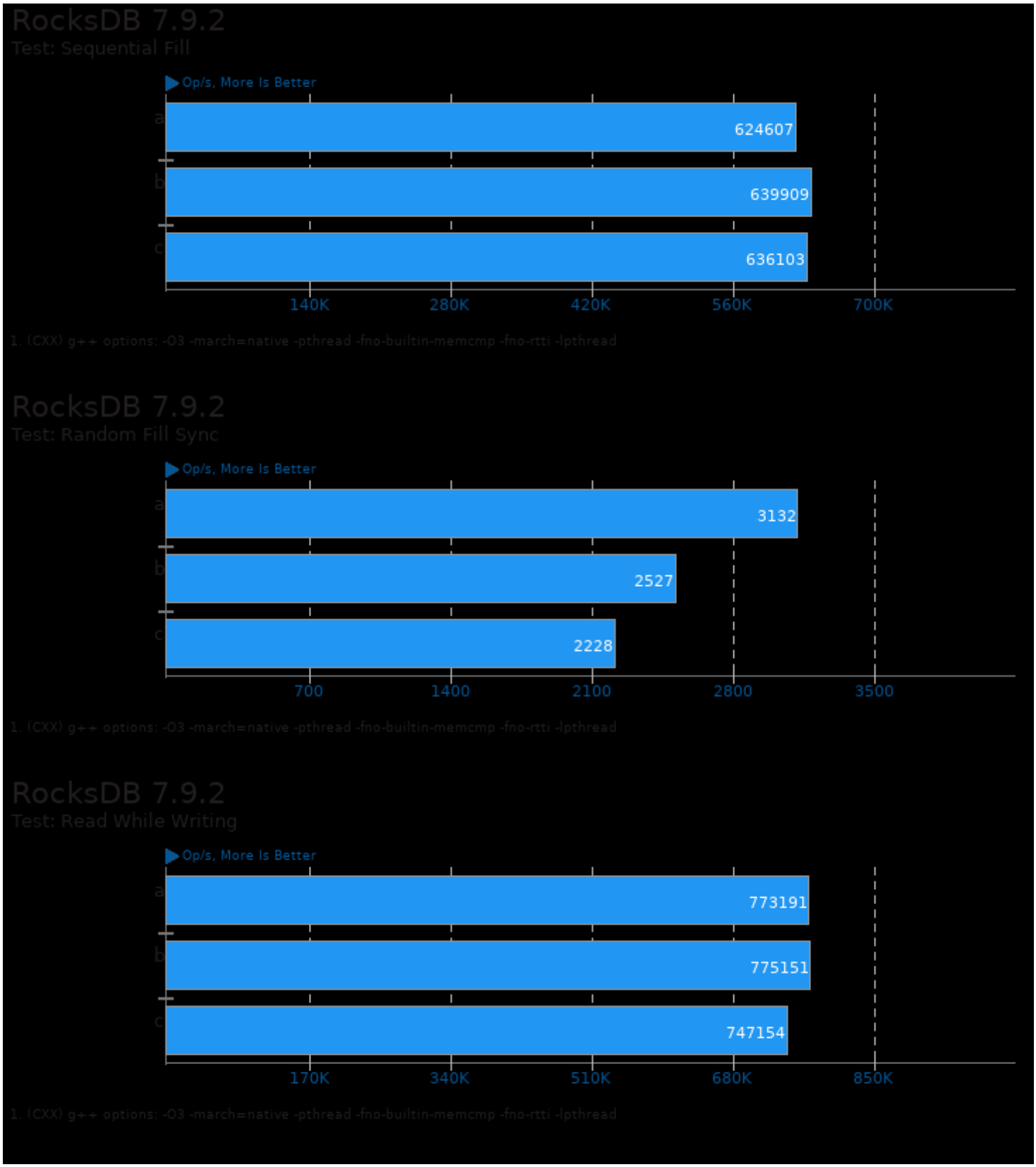
Processor: Intel Core i7-1185G7 @ 4.80GHz (4 Cores / 8 Threads), Motherboard: Dell 0DXP1F (3.7.0 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 16GB, Disk: Micron 2300 NVMe 512GB, Graphics: Intel Xe TGL GT2 15GB (1350MHz), Audio: Realtek ALC289, Network: Intel Wi-Fi 6 AX201

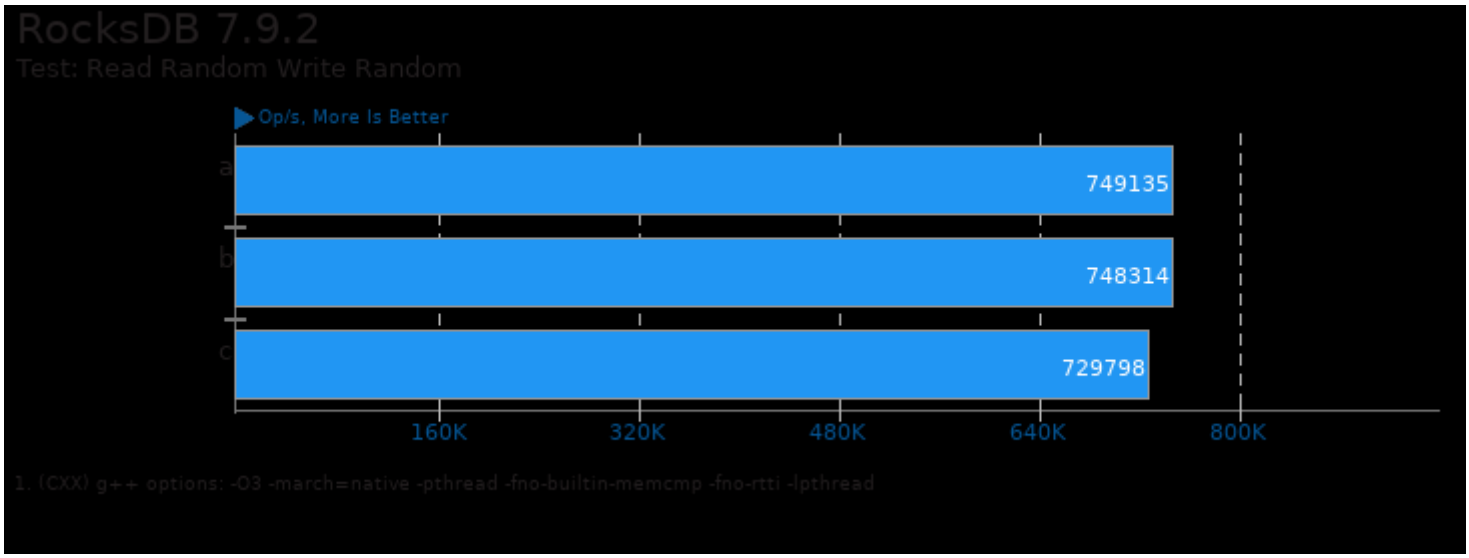
OS: Ubuntu 22.04, Kernel: 5.18.8-051808-generic (x86_64), Desktop: GNOME Shell 42.2, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.0.1, OpenCL: OpenCL 3.0, Vulkan: 1.3.204, Compiler: GCC 11.3.0, File-System: ext4, Screen Resolution: 1920x1200

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/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-build-config=bootstrap-lto-lean --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 2.4.9
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: 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 + srbds: Not affected + tsx_async_abort: Not affected

	a	b	c
RocksDB - Rand Fill (Op/s)	**592546**	595797	**603556**
Normalized	98.18%	98.71%	100%
RocksDB - Rand Read (Op/s)	16091364	**15960802**	**16570457**
Normalized	97.11%	96.32%	100%
RocksDB - Update Rand (Op/s)	**309305**	311565	**314244**
Normalized	98.43%	99.15%	100%
RocksDB - Seq Fill (Op/s)	**624607**	**639909**	636103
Normalized	97.61%	100%	99.41%
RocksDB - Rand Fill Sync (Op/s)	**3132**	2527	**2228**
Normalized	100%	80.68%	71.14%
RocksDB - Read While Writing (Op/s)	773191	**775151**	**747154**
Normalized	99.75%	100%	96.39%
RocksDB - R.R.W.R (Op/s)	**749135**	748314	**729798**
Normalized	100%	99.89%	97.42%


RocksDB 7.9.2
Test: Random Fill
Op/s, More Is Better
a
592546
b
595797
c
603556
130K
260K
390K
520K
650K
1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti -lpthread
RocksDB 7.9.2
Test: Random Read
Op/s, More Is Better
a
16091364
b
15960802
c
16570457
4M
8M
12M
16M
20M
1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti -lpthread
RocksDB 7.9.2
Test: Update Random
Op/s, More Is Better
a
309305
b
311565
c
314244
70K
140K
210K
280K
350K
1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti -lpthread


RocksDB 7.9.2
Test: Sequential Fill
Op/s, More Is Better
a
624607
b
639909
c
636103
140K
280K
420K
560K
700K
1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti -lpthread
RocksDB 7.9.2
Test: Random Fill Sync
Op/s, More Is Better
a
3132
b
2527
c
2228
700
1400
2100
2800
3500
1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti -lpthread
RocksDB 7.9.2
Test: Read While Writing
Op/s, More Is Better
a
773191
b
775151
c
747154
170K
340K
510K
680K
850K
1. (CXX) g++ options: -O3 -march=native -pthread -fno-builtin-memcmp -fno-rtti -lpthread



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 09:54.