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AMD Ryzen 7 PRO 5850U testing with a HP 8A78 (F.04 BIOS) and AMD Cezanne 512MB on Pop 22.04 via the Phoronix Test Suite.

Automated Executive Summary

A had the most wins, coming in first place for 62% of the tests.

Based on the geometric mean of all complete results, the fastest (B) was 1.005x the speed of the slowest (C). A was 0.996x the speed of B and C was 0.999x the speed of A.

Test Systems:

A

B

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C

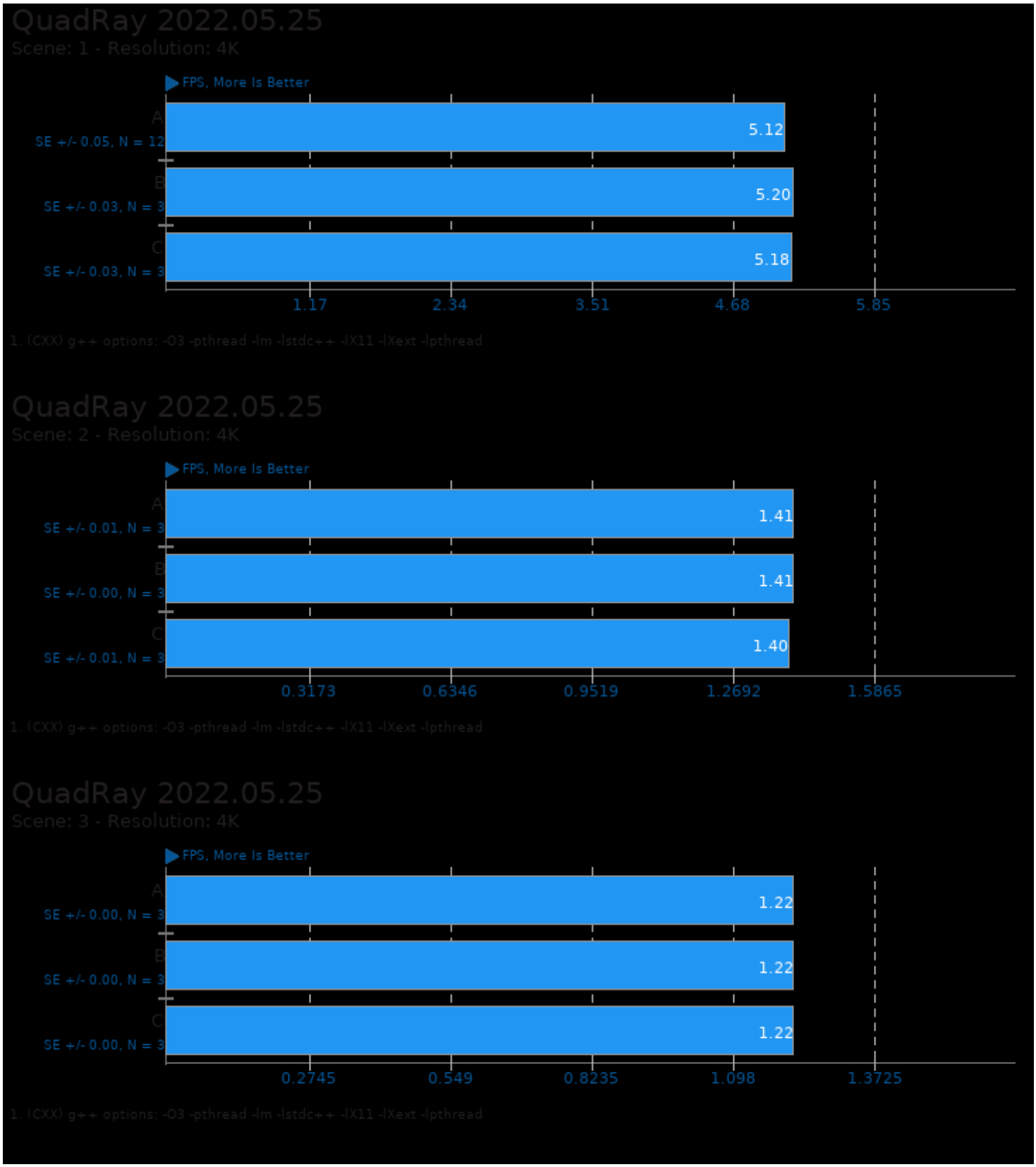
Processor: AMD Ryzen 7 PRO 5850U @ 4.51GHz (8 Cores / 16 Threads), Motherboard: HP 8A78 (F.04 BIOS), Chipset: AMD Renoir/Cezanne, Memory: 16GB, Disk: 1024GB SK hynix PC711 HFS001TDE9X073N, Graphics: AMD Cezanne 512MB (2000/400MHz), Audio: AMD Renoir Radeon HD Audio, Network: Realtek RTL8822CE 802.11ac PCIe

OS: Pop 22.04, Kernel: 5.19.0-76051900-generic (x86_64), Desktop: GNOME Shell 42.3.1, Display Server: X Server 1.21.1.3, OpenGL: 4.6 Mesa 22.0.5 (LLVM 13.0.1 DRM 3.47), Vulkan: 1.3.204, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 1920x1080

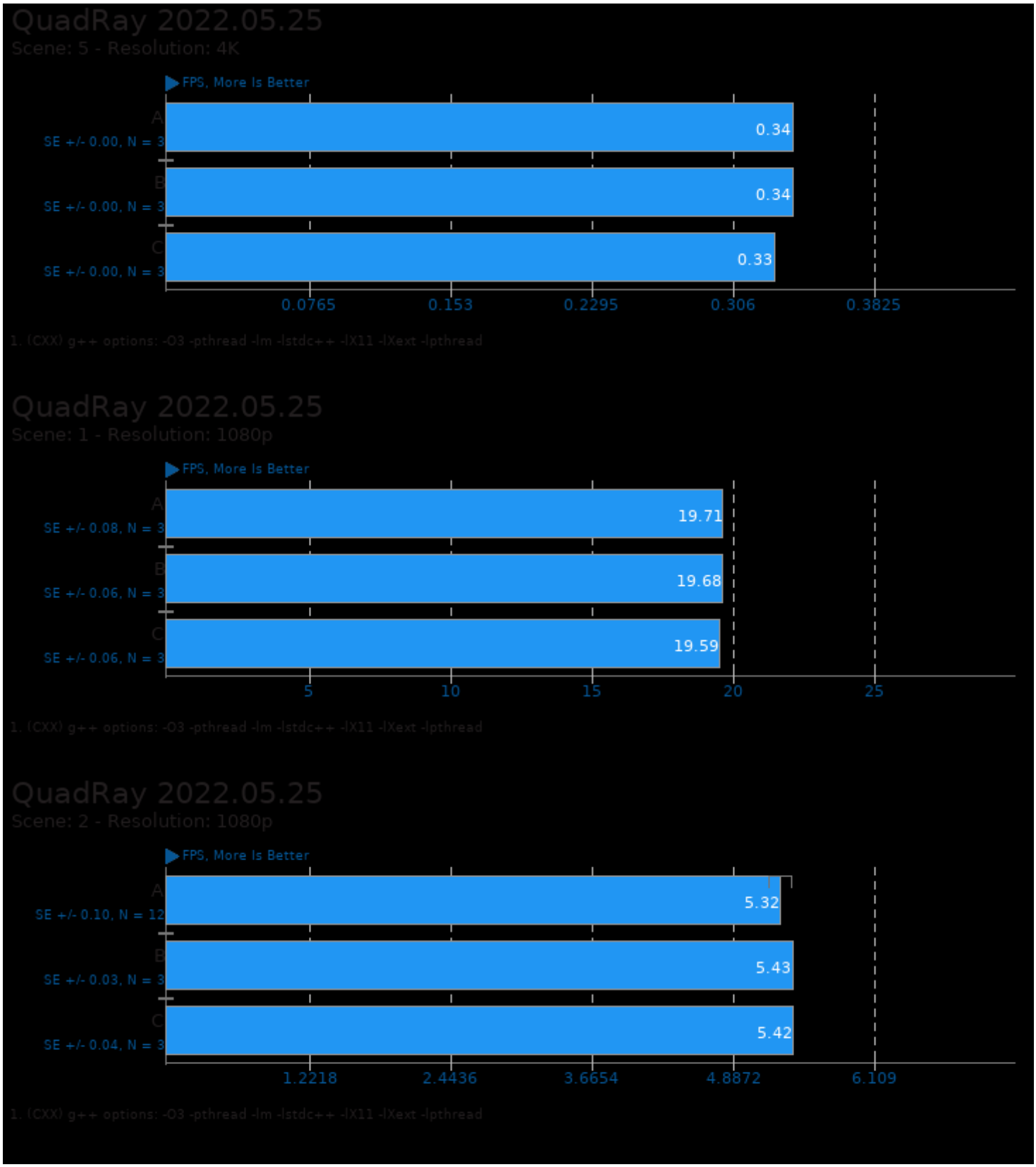
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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-gBFGDP/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-gBFGDP/gcc-11-11.2.0/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-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: amd-pstate schedutil (Boost: Enabled) - CPU Microcode: 0xa50000c
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 + srbds: Not affected + tsx_async_abort: Not affected

	A	B	C
QuadRay - 1 - 4K (FPS)	**5.12**	**5.20**	5.18
Normalized	98.46%	100%	99.62%
Standard Deviation	3.4%	1.1%	1%
QuadRay - 2 - 4K (FPS)	**1.41**	**1.41**	**1.40**
Normalized	100%	100%	99.29%
Standard Deviation	0.8%	0%	1.5%
QuadRay - 3 - 4K (FPS)	1.22	1.22	1.22
Standard Deviation	0.5%	0%	0.5%
QuadRay - 5 - 4K (FPS)	**0.34**	**0.34**	**0.33**
Normalized	100%	100%	97.06%
Standard Deviation	0%	0%	1.7%
QuadRay - 1 - 1080p (FPS)	**19.71**	19.68	**19.59**
Normalized	100%	99.85%	99.39%
Standard Deviation	0.7%	0.5%	0.6%
QuadRay - 2 - 1080p (FPS)	**5.32**	**5.43**	5.42
Normalized	97.97%	100%	99.82%
Standard Deviation	6.4%	0.8%	1.2%
QuadRay - 3 - 1080p (FPS)	**4.75**	**4.75**	**4.76**
Normalized	99.79%	99.79%	100%
Standard Deviation	0.3%	1%	0.6%
QuadRay - 5 - 1080p (FPS)	1.35	1.35	1.35
Standard Deviation	1.1%	0.9%	0.4%

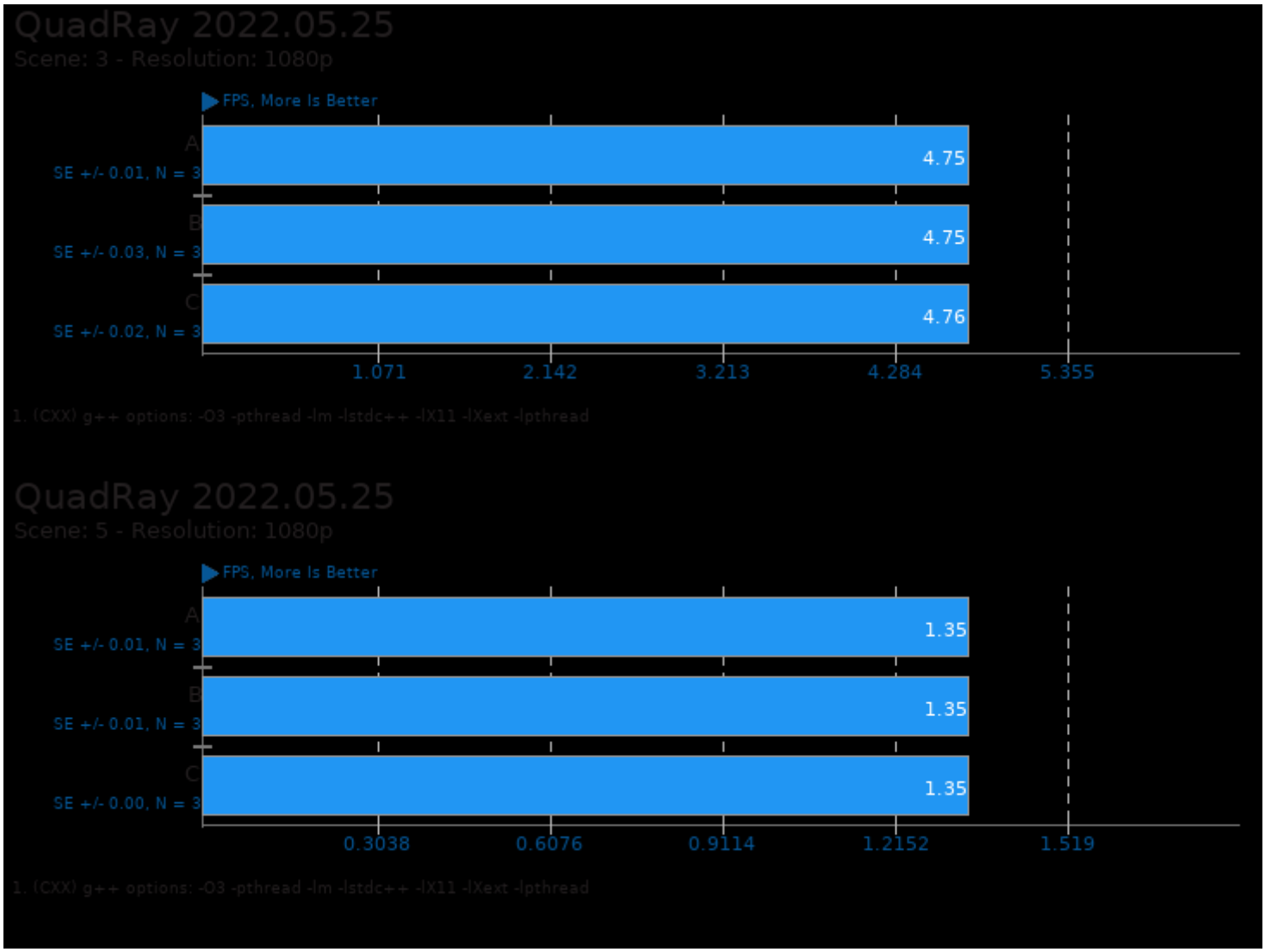
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