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Intel Core i7-10700T testing with a Logic Supply RXM-181 (Z01-0002A026 BIOS) and Intel UHD 630 CML GT2 3GB on Ubuntu 21.04 via the Phoronix Test Suite.

Automated Executive Summary

1 had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (1) was 1.003x the speed of the slowest (3). 2 was 0.998x the speed of 1 and 3 was 0.998x the speed of 2.

Test Systems:

1

2

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3

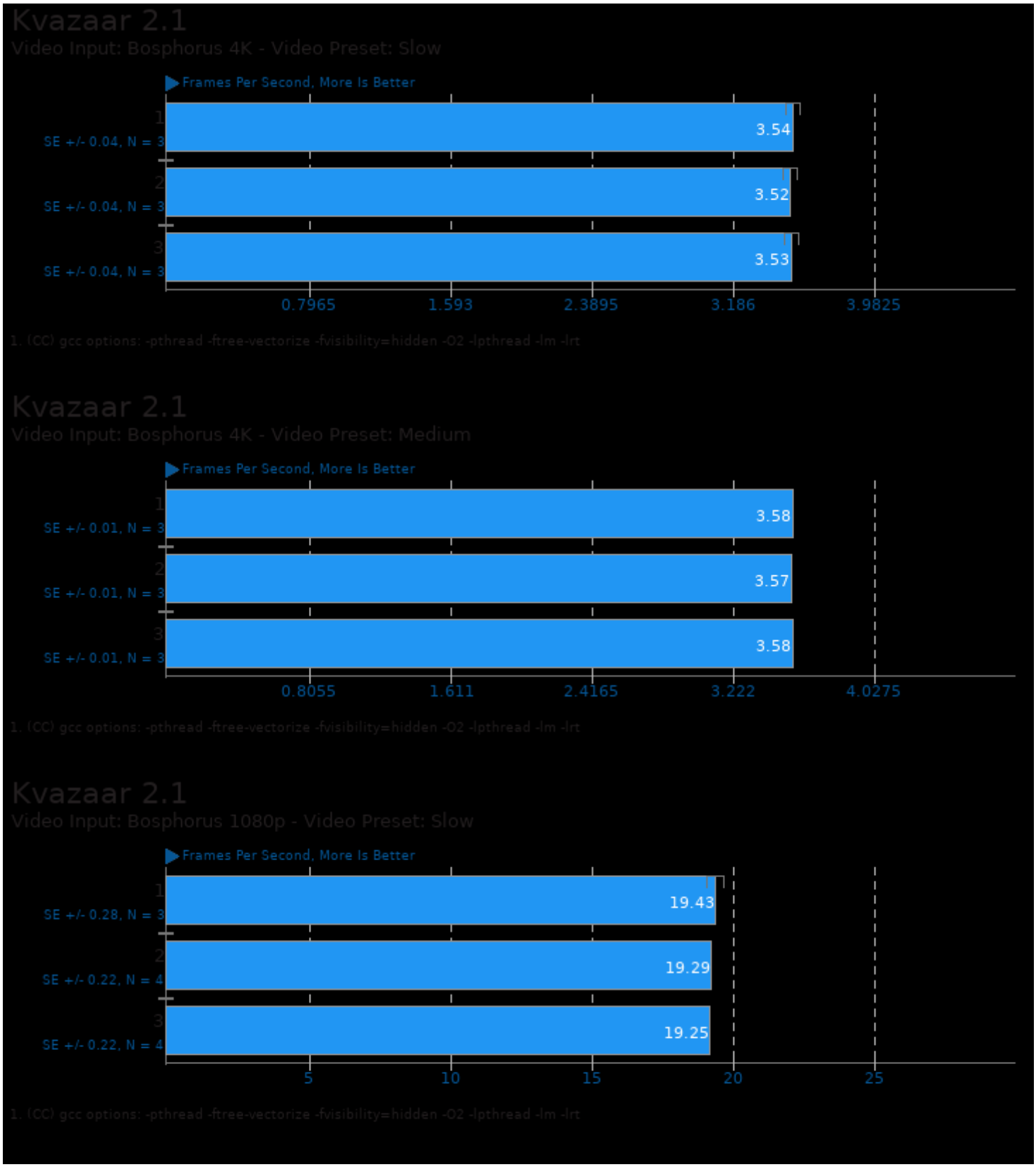
Processor: Intel Core i7-10700T @ 4.50GHz (8 Cores / 16 Threads), Motherboard: Logic Supply RXM-181 (Z01-0002A026 BIOS), Chipset: Intel Comet Lake PCH, Memory: 32GB, Disk: 256GB TS256GMTS800, Graphics: Intel UHD 630 CML GT2 3GB (1200MHz), Audio: Realtek ALC233, Monitor: DELL P2415Q, Network: Intel I219-LM + Intel I210

OS: Ubuntu 21.04, Kernel: 5.11.0-37-generic (x86_64), Desktop: GNOME Shell 3.38.4, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.0.1, Vulkan: 1.2.145, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 1920x1080

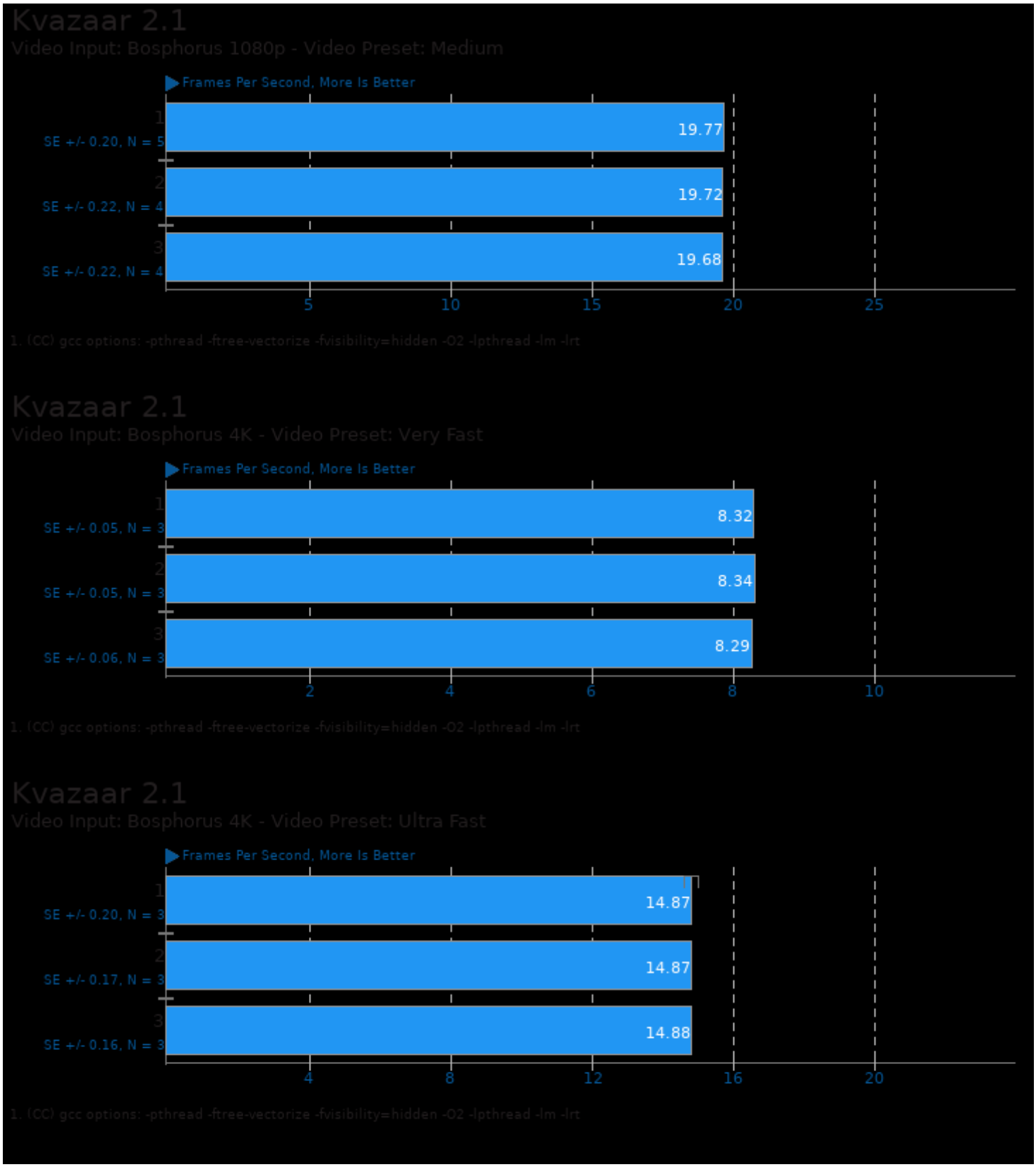
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-gDeRY6/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-gDeRY6/gcc-10-10.3.0/debian/tmp-gcn/usr, hsa --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 - CPU Microcode: 0xec - Thermald 2.4.3
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + 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

	1	2	3
Kvazaar - Bosphorus 4K - Slow (FPS)	**3.54**	**3.52**	3.53
Normalized	100%	99.44%	99.72%
Standard Deviation	1.9%	2%	2.1%
Kvazaar - Bosphorus 4K - Medium (FPS)	**3.58**	**3.57**	**3.58**
Normalized	100%	99.72%	100%
Standard Deviation	0.6%	0.4%	0.3%
Kvazaar - Bosphorus 1080p - Slow (FPS)	**19.43**	19.29	**19.25**
Normalized	100%	99.28%	99.07%
Standard Deviation	2.5%	2.3%	2.3%
Kvazaar - Bosphorus 1080p - Medium (FPS)	**19.77**	19.72	**19.68**
Normalized	100%	99.75%	99.54%
Standard Deviation	2.2%	2.3%	2.2%
Kvazaar - Bosphorus 4K - Very Fast (FPS)	8.32	**8.34**	**8.29**
Normalized	99.76%	100%	99.4%
Standard Deviation	1%	1%	1.2%
Kvazaar - Bosphorus 4K - Ultra Fast (FPS)	**14.87**	**14.87**	**14.88**
Normalized	99.93%	99.93%	100%
Standard Deviation	2.4%	2%	1.9%
Kvazaar - Bosphorus 1080p - Very Fast (FPS)	38.74	**38.76**	**38.56**
Normalized	99.95%	100%	99.48%
Standard Deviation	2.8%	2.7%	2.7%
Kvazaar - Bosphorus 1080p - Ultra Fast	72.84	**72.90**	**72.65**
Normalized	99.92%	100%	99.66%
Standard Deviation	5.4%	5.4%	6%

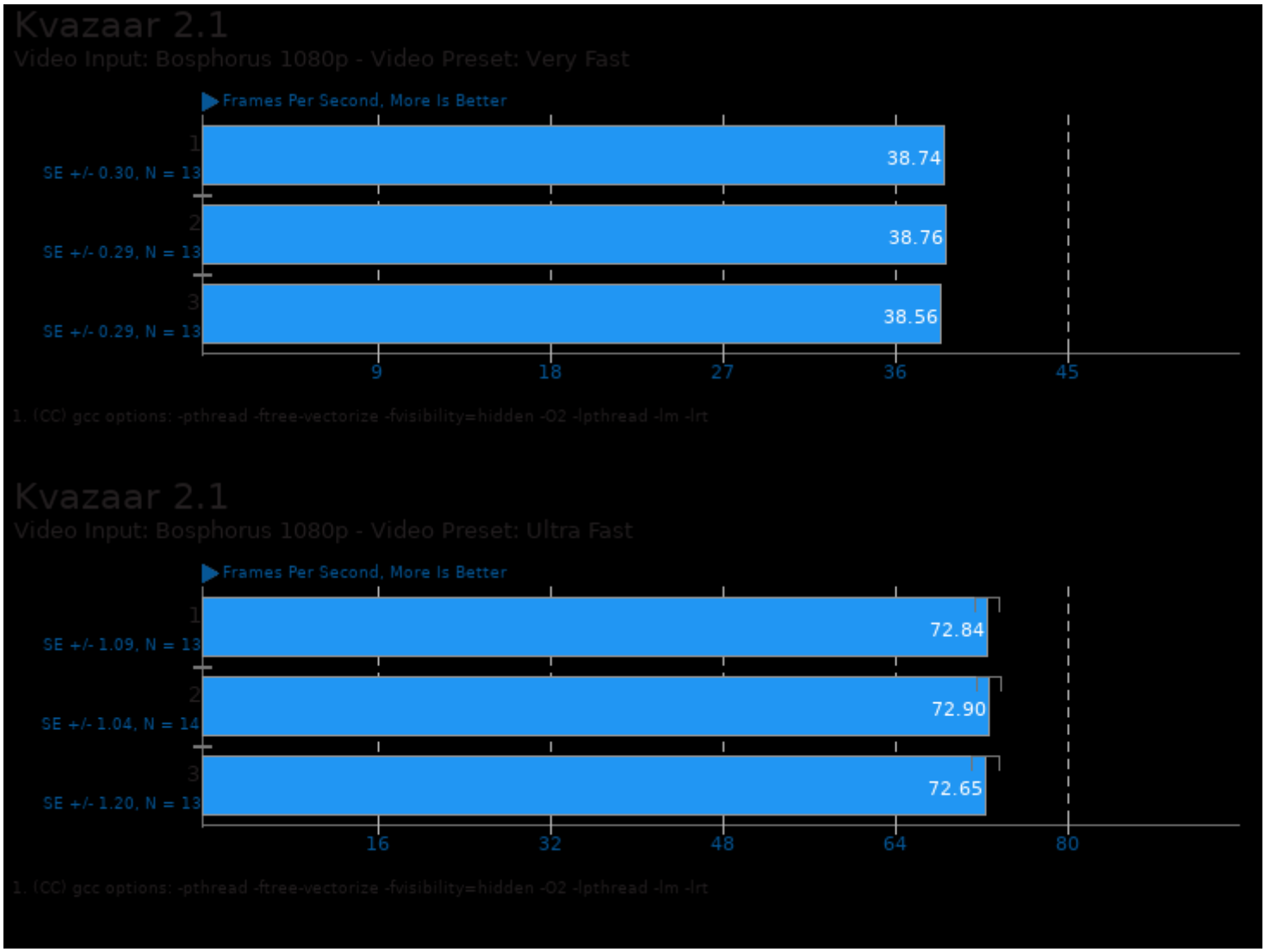
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