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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

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

Based on the geometric mean of all complete results, the fastest (a) was 1.004x the speed of the slowest (b). d was 0.999x the speed of a, c was 0.998x the speed of d, b was 0.999x the speed of c.

The results with the greatest spread from best to worst included:

Kvazaar (Video Input: Bosphorus 4K - Video Preset: Slow) at 1.051x
Kvazaar (Video Input: Bosphorus 1080p - Video Preset: Ultra Fast) at 1.029x
uvg266 (Video Input: Bosphorus 1080p - Video Preset: Super Fast) at 1.007x
uvg266 (Video Input: Bosphorus 1080p - Video Preset: Ultra Fast) at 1.005x
uvg266 (Video Input: Bosphorus 1080p - Video Preset: Very Fast) at 1.004x
Kvazaar (Video Input: Bosphorus 1080p - Video Preset: Super Fast) at 1.004x
Kvazaar (Video Input: Bosphorus 1080p - Video Preset: Very Fast) at 1.003x
uvg266 (Video Input: Bosphorus 4K - Video Preset: Super Fast) at 1.003x
Kvazaar (Video Input: Bosphorus 4K - Video Preset: Ultra Fast) at 1.003x

Kvazaar (Video Input: Bosphorus 4K - Video Preset: Very Fast) at 1.003x.

Test Systems:

a

b

c

d

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

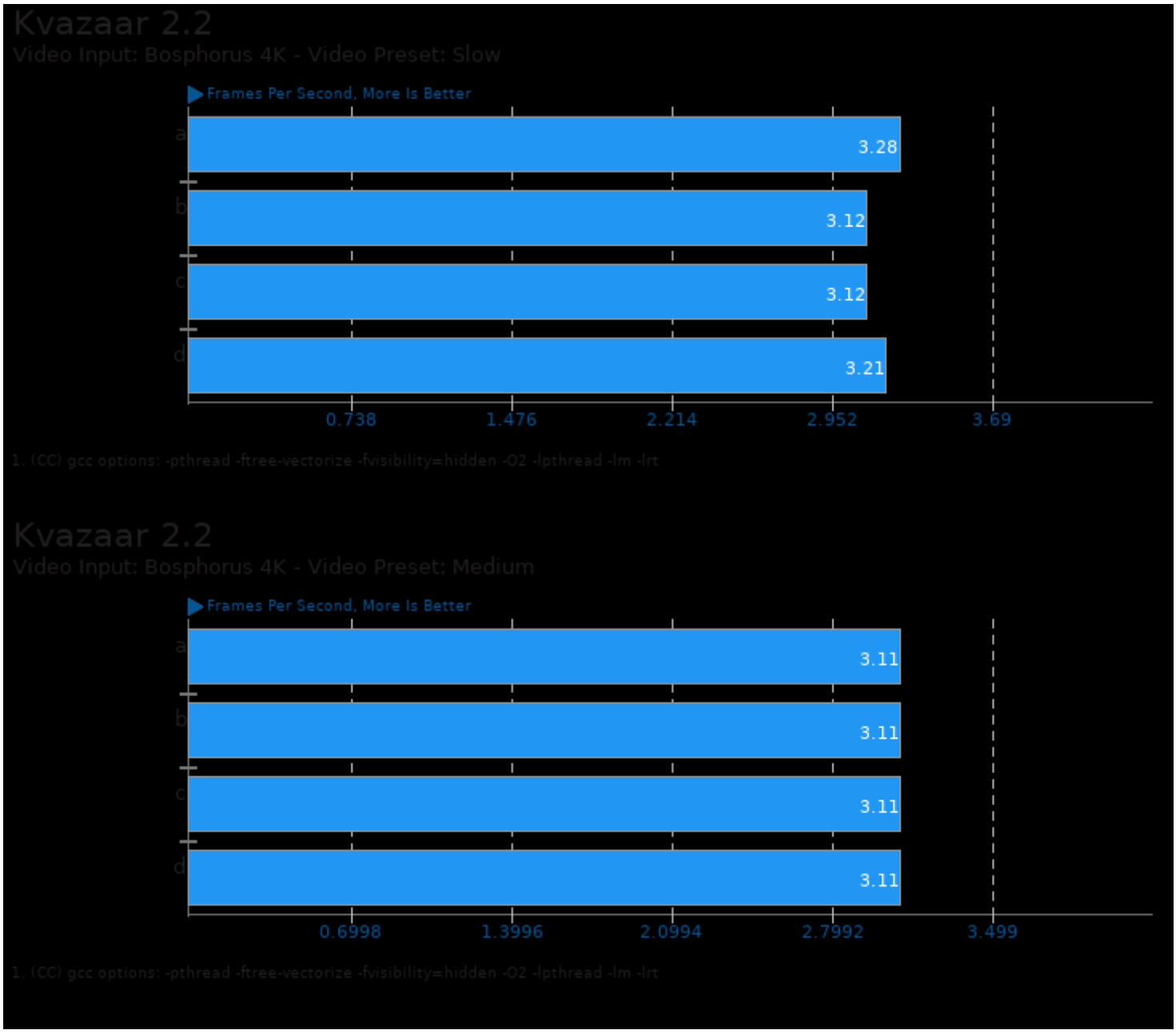
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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	d
Kvazaar - Bosphorus 4K - Slow (FPS)	**3.28**	**3.12**	**3.12**	3.21
Normalized	100%	95.12%	95.12%	97.87%
Kvazaar - Bosphorus 4K - Medium	3.11	3.11	3.11	3.11
Kvazaar - Bosphorus 1080p - Slow (FPS)	**16.31**	16.3	**16.31**	**16.29**
Normalized	100%	99.94%	100%	99.88%
Kvazaar - Bosphorus 1080p - Medium (FPS)	16.93	16.92	**16.95**	**16.91**
Normalized	99.88%	99.82%	100%	99.76%

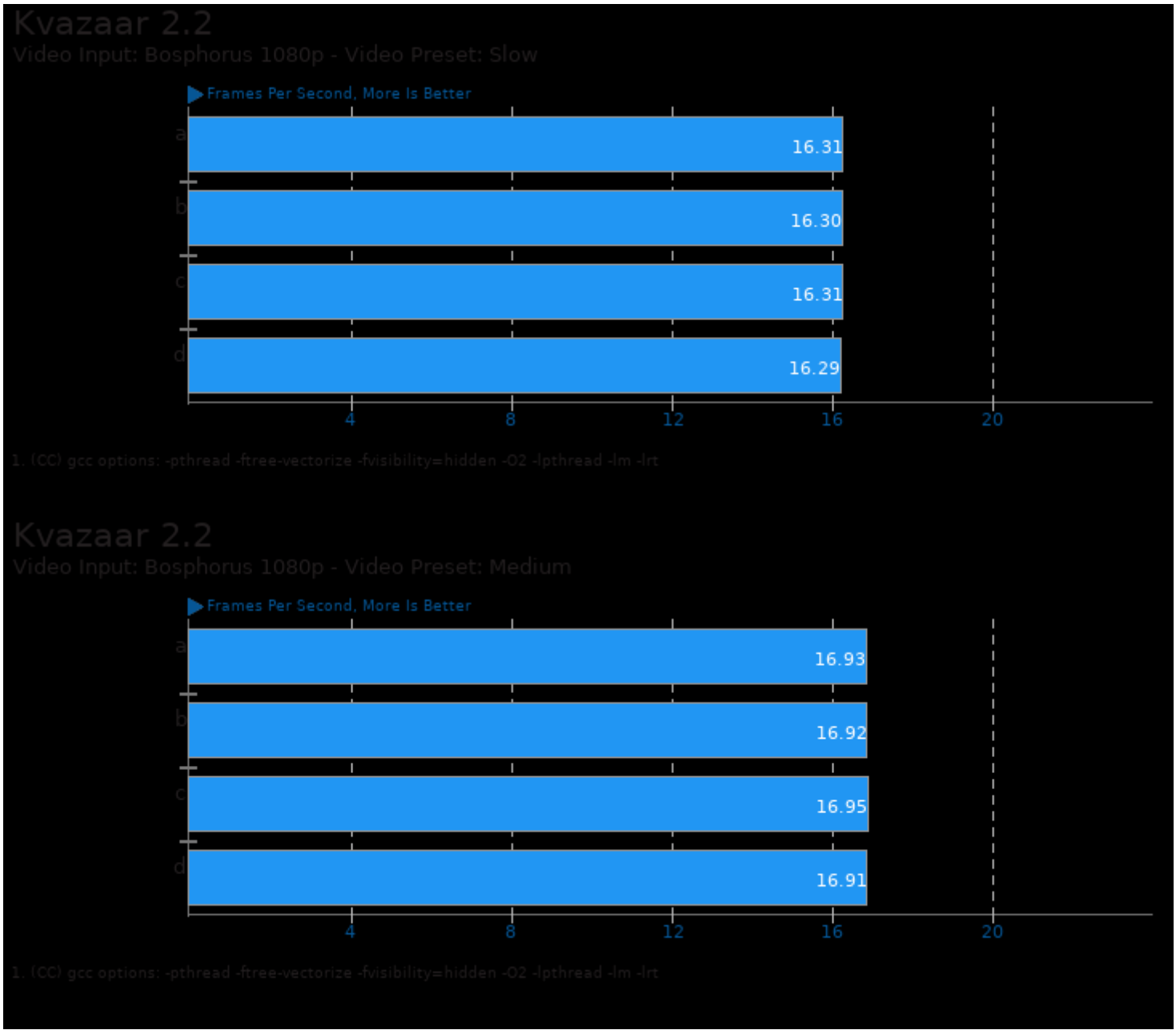
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Kvazaar - Bosphorus 4K - Very Fast (FPS)	**7.75**	**7.77**	**7.77**	7.76
Normalized	99.74%	100%	100%	99.87%
Kvazaar - Bosphorus 4K - Super Fast (FPS)	**9.6**	**9.59**	**9.6**	**9.59**
Normalized	100%	99.9%	100%	99.9%
Kvazaar - Bosphorus 4K - Ultra Fast (FPS)	**13.28**	13.25	**13.24**	13.27
Normalized	100%	99.77%	99.7%	99.92%
Kvazaar - Bosphorus 1080p - Very Fast (FPS)	35.43	35.36	**35.46**	**35.34**
Normalized	99.92%	99.72%	100%	99.66%
Kvazaar - Bosphorus 1080p - Super Fast (FPS)	43.5	**43.42**	**43.59**	43.55
Normalized	99.79%	99.61%	100%	99.91%
Kvazaar - Bosphorus 1080p - Ultra Fast (FPS)	61.59	**59.92**	61.48	**61.65**
Normalized	99.9%	97.19%	99.72%	100%
uvg266 - Bosphorus 4K - Slow (FPS)	1.93	1.93	1.93	1.93
uvg266 - Bosphorus 4K - Medium	2.15	2.15	2.15	2.15
uvg266 - Bosphorus 1080p - Slow	**10.55**	**10.55**	**10.55**	**10.54**
Normalized	100%	100%	100%	99.91%
uvg266 - Bosphorus 1080p - Medium (FPS)	11.73	**11.72**	11.73	**11.74**
Normalized	99.91%	99.83%	99.91%	100%
uvg266 - Bosphorus 4K - Very Fast (FPS)	6.22	6.22	6.22	6.22
uvg266 - Bosphorus 4K - Super Fast (FPS)	**6.52**	**6.54**	**6.54**	**6.54**
Normalized	99.69%	100%	100%	100%
uvg266 - Bosphorus 4K - Ultra Fast (FPS)	**7.95**	7.96	7.96	**7.97**
Normalized	99.75%	99.87%	99.87%	100%
uvg266 - Bosphorus 1080p - Very Fast (FPS)	28.96	**29.01**	**28.89**	28.92
Normalized	99.83%	100%	99.59%	99.69%
uvg266 - Bosphorus 1080p - Super Fast (FPS)	30.19	30.26	**30.07**	**30.29**
Normalized	99.67%	99.9%	99.27%	100%
uvg266 - Bosphorus 1080p - Ultra Fast (FPS)	**36.83**	36.71	**36.64**	36.74
Normalized	100%	99.67%	99.48%	99.76%

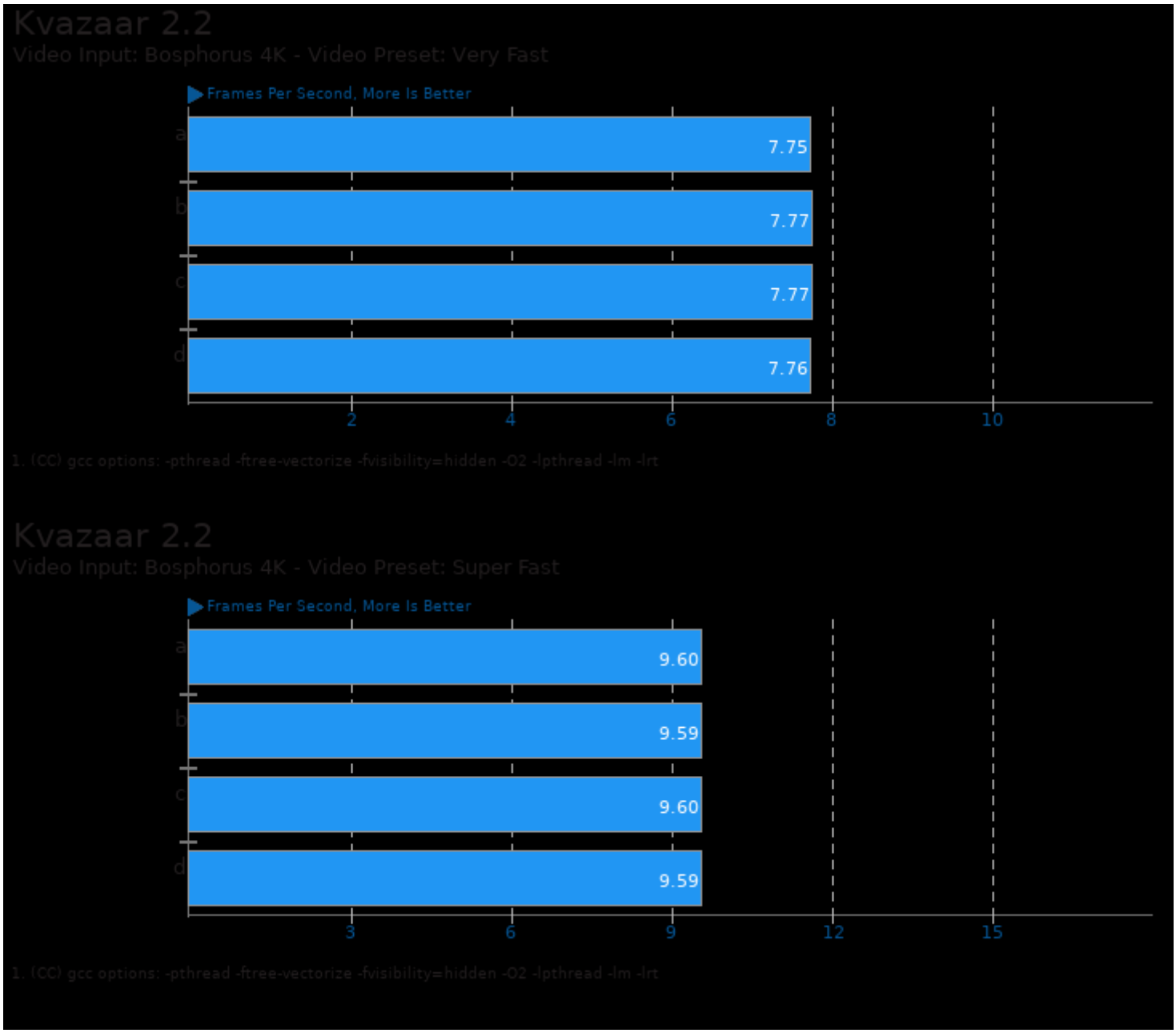
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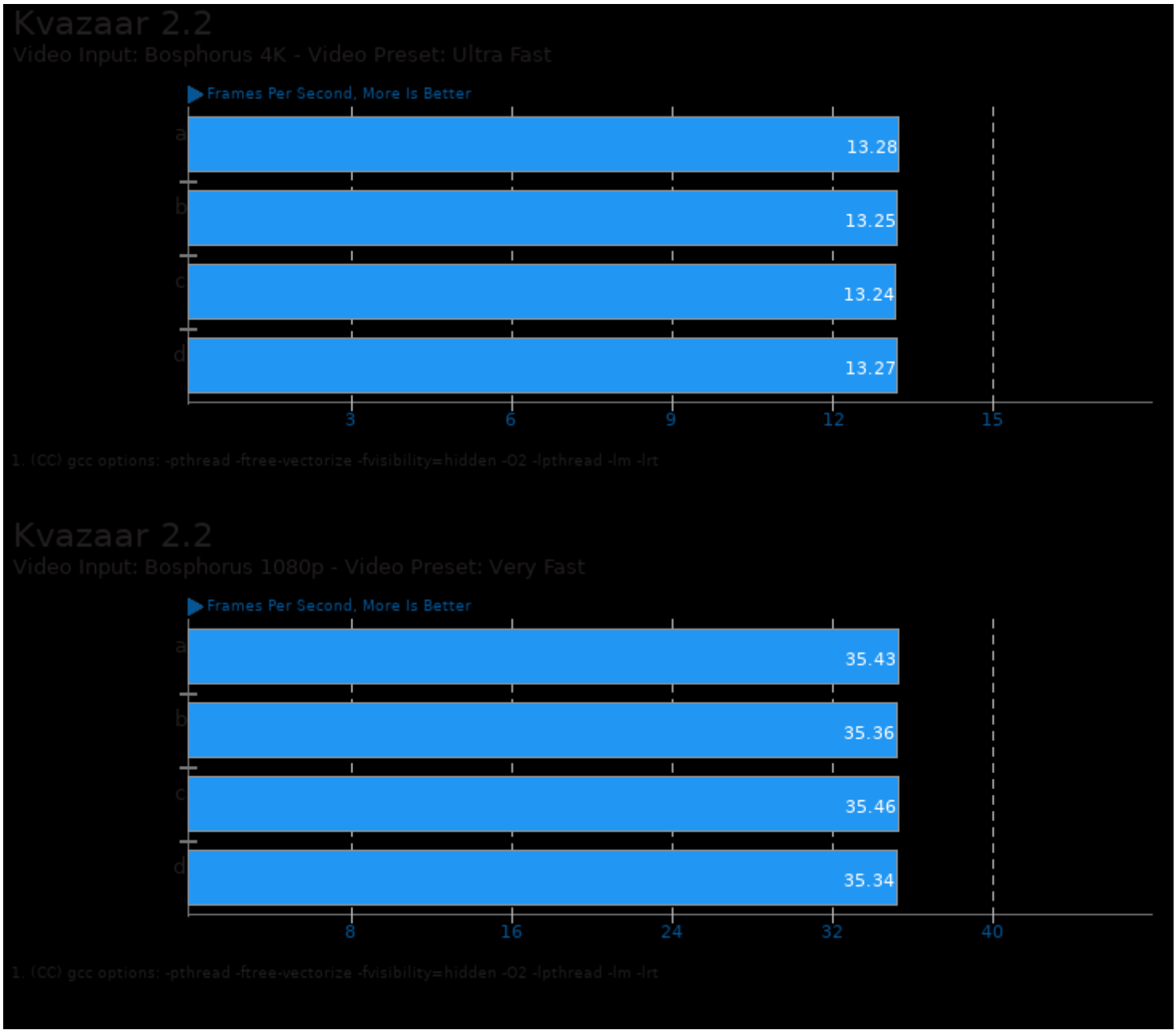
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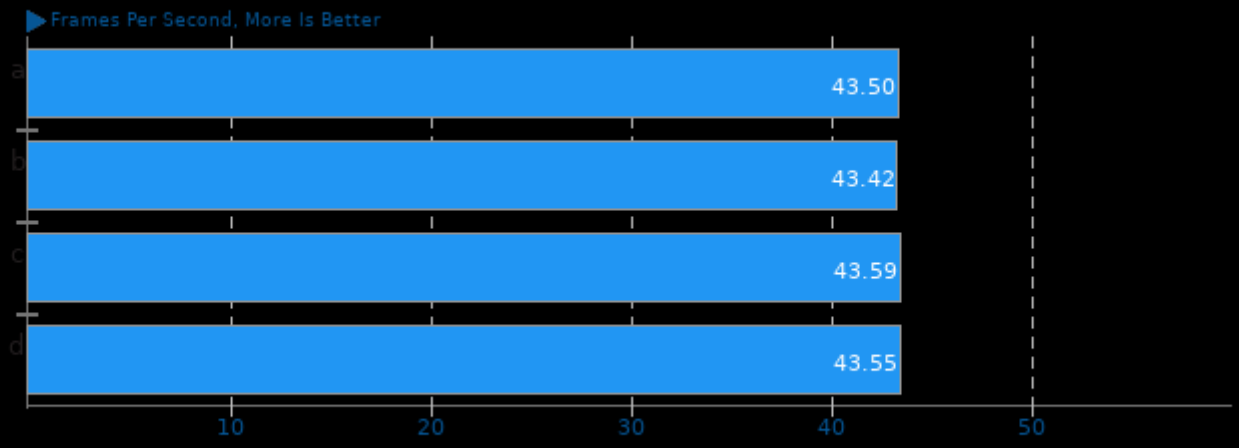
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Kvazaar 2.2

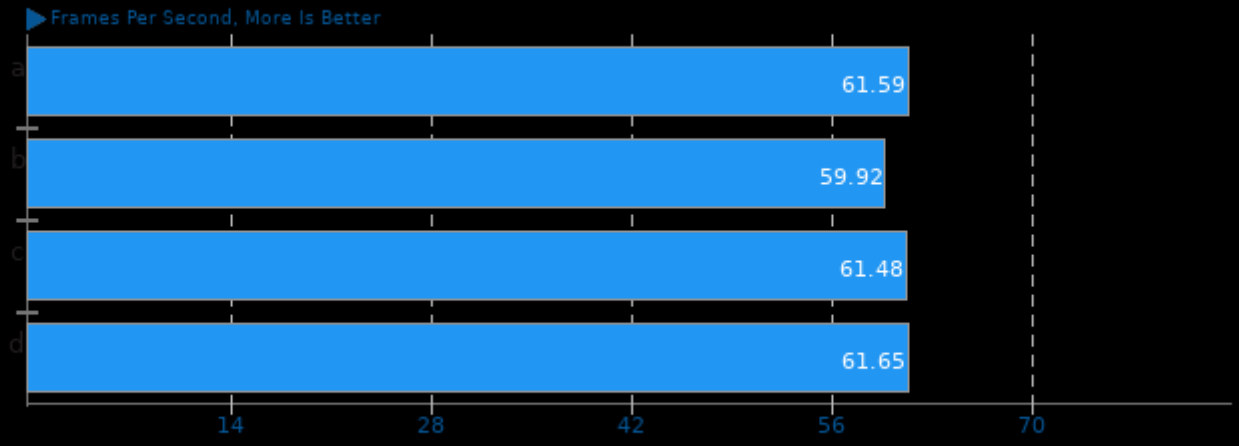
Video Input: Bosphorus 1080p - Video Preset: Super Fast



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.2

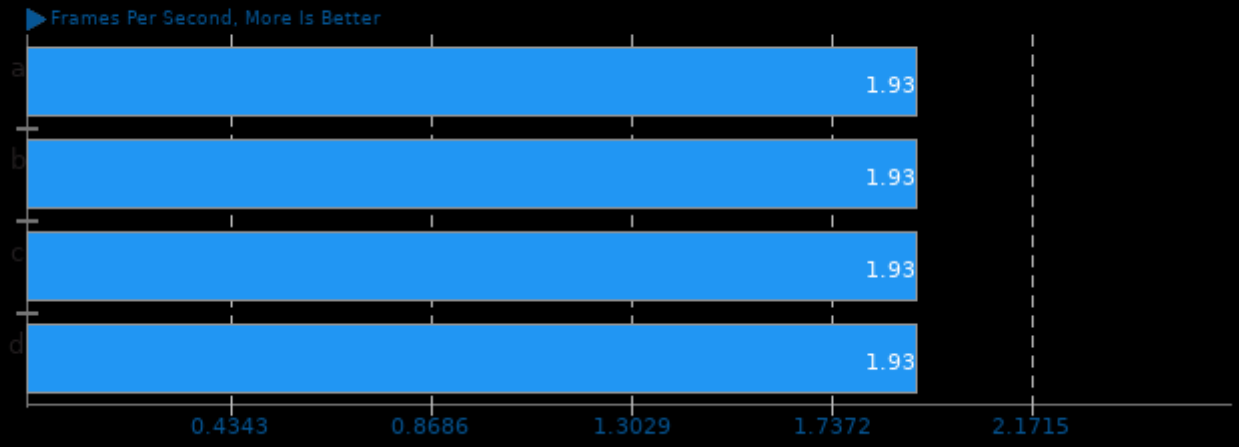
Video Input: Bosphorus 1080p - Video Preset: Ultra Fast



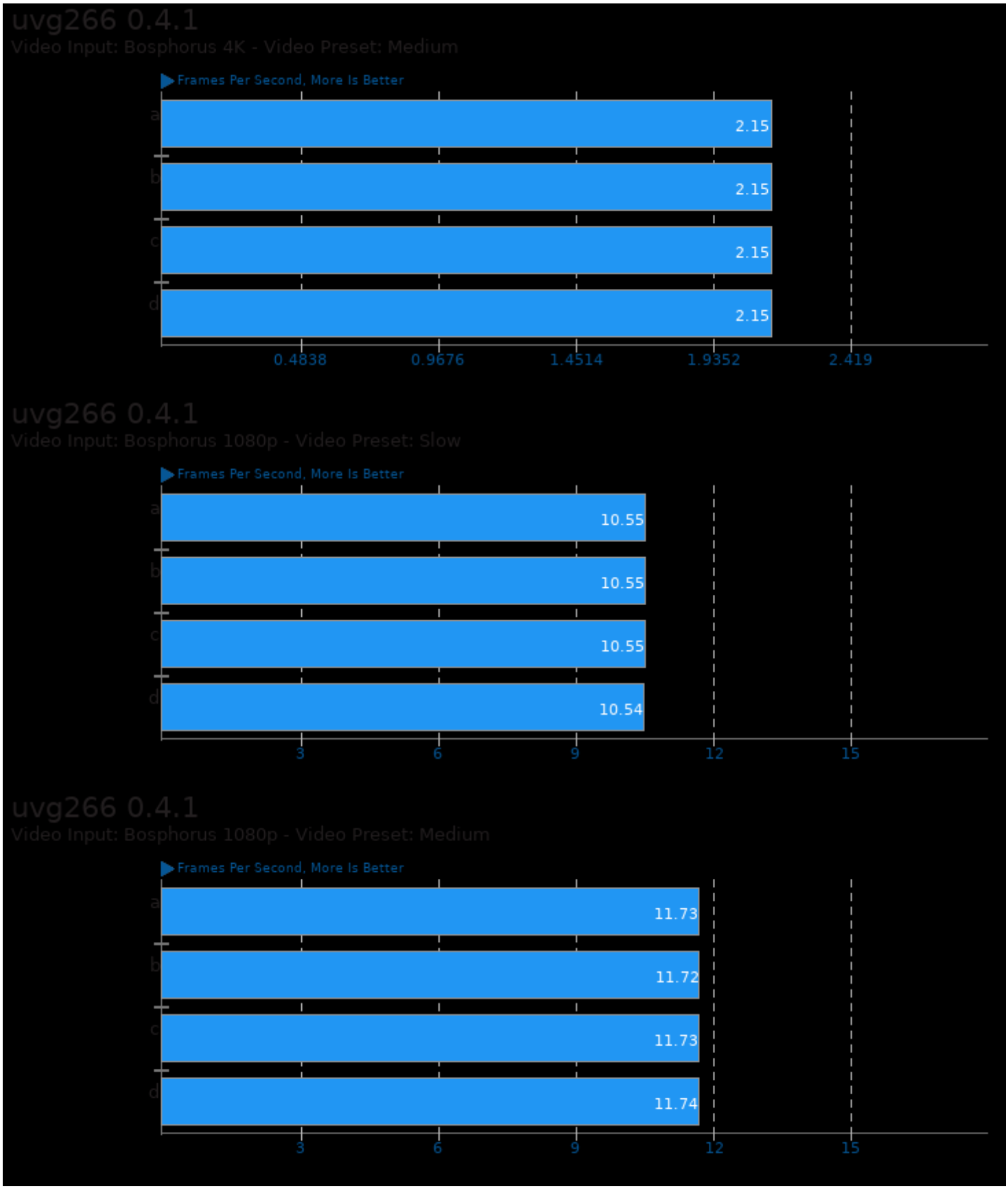
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

uvg266 0.4.1

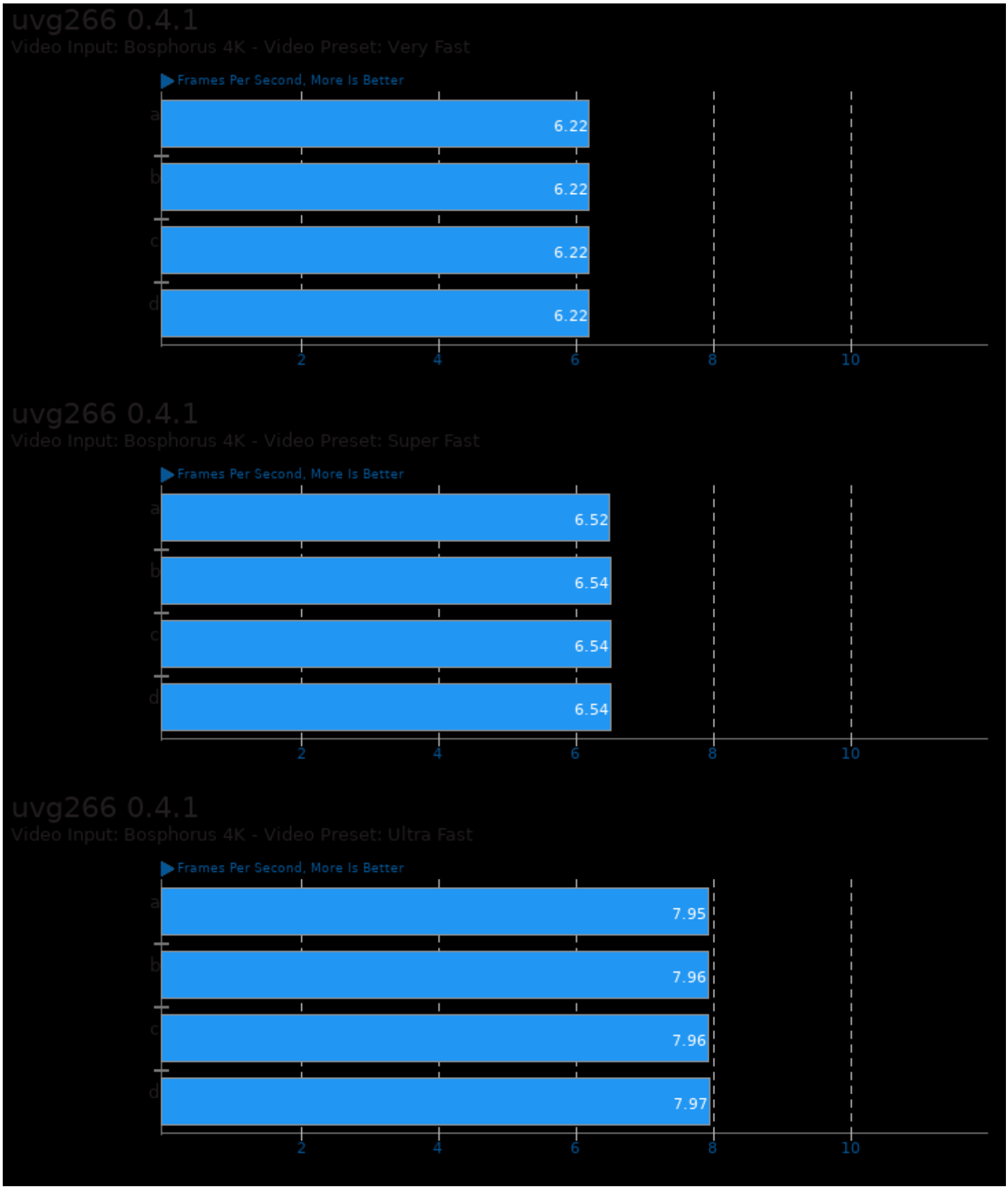
Video Input: Bosphorus 4K - Video Preset: Slow



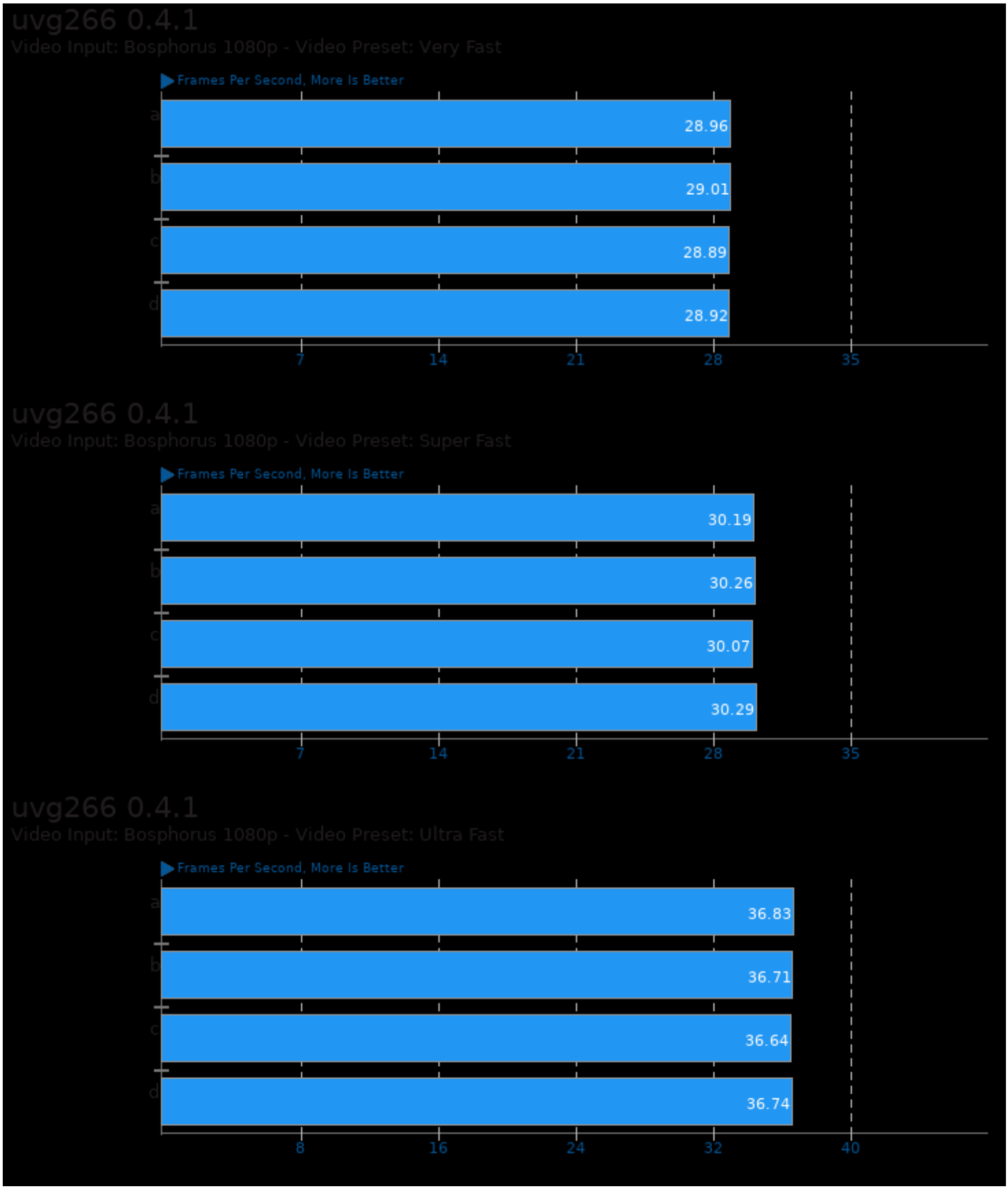
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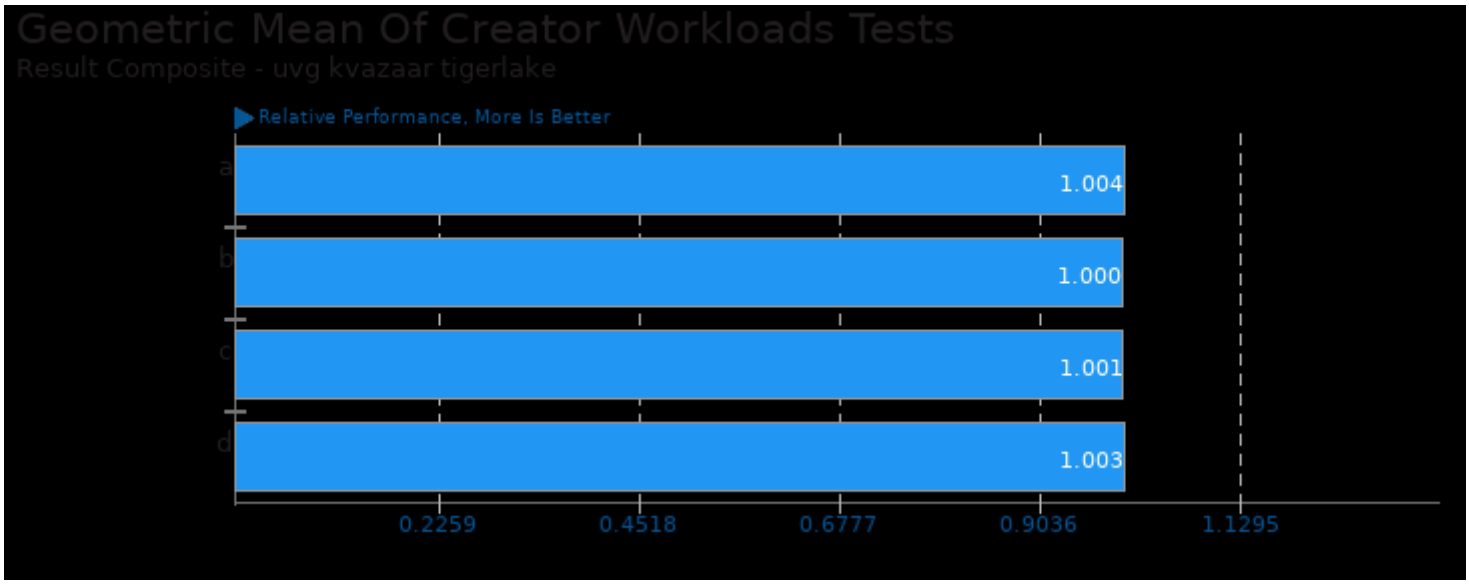


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These geometric means are based upon test groupings / test suites for this result file.

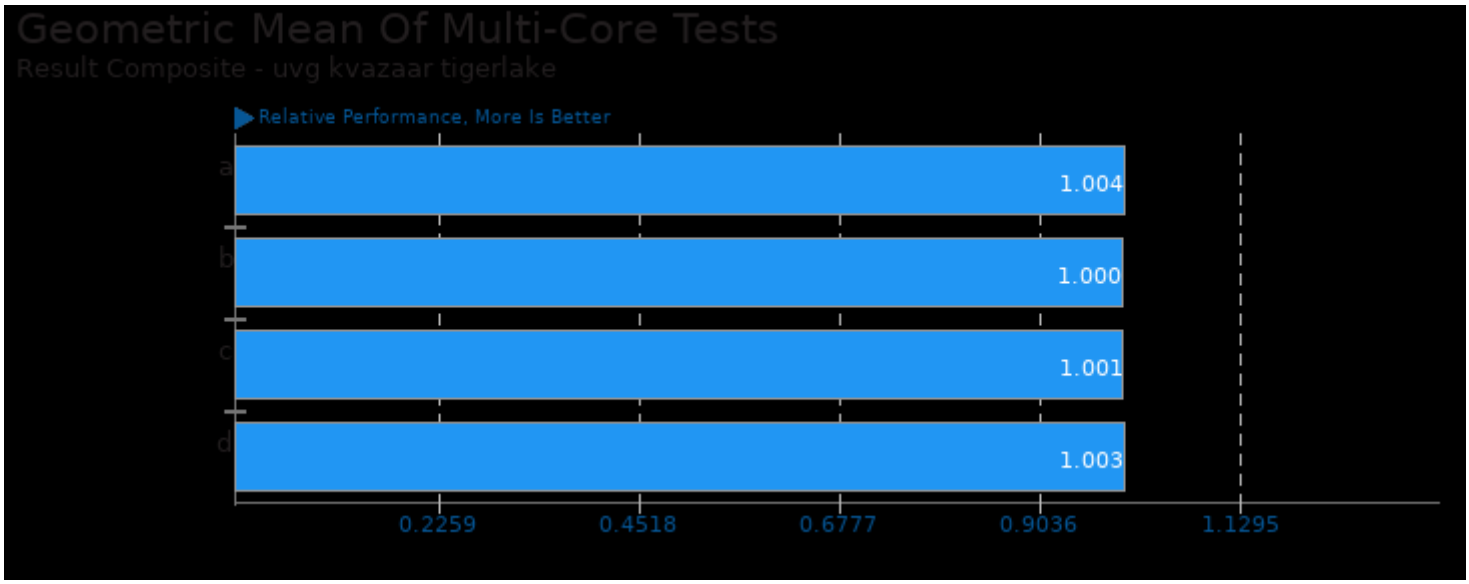


Geometric mean based upon tests: pts/kvazaar and pts/uvg266

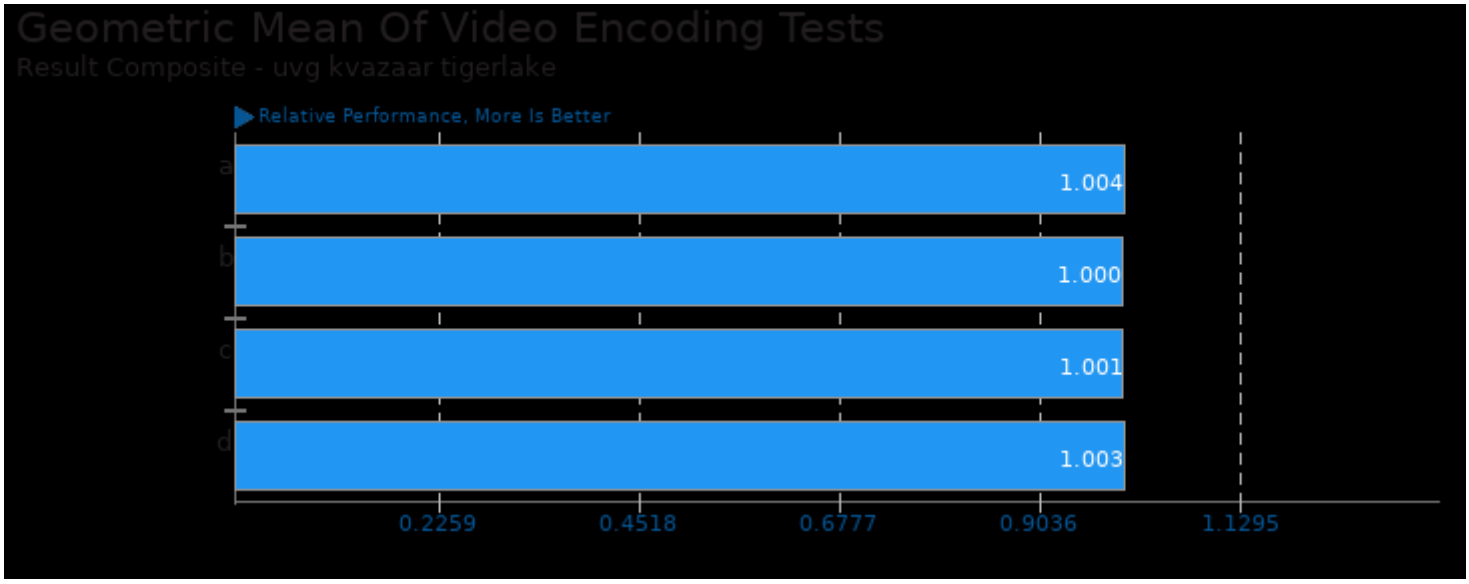


Geometric mean based upon tests: pts/kvazaar and pts/uvg266

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Geometric mean based upon tests: pts/kvazaar and pts/uvg266



Geometric mean based upon tests: pts/kvazaar and pts/uvg266

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