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AMD Ryzen 7 PRO 6850U testing with a LENOVO 21CM0001US (R22ET51W 1.21 BIOS) and AMD Radeon 680M 1GB on Ubuntu 22.10 via the Phoronix Test Suite.

Automated Executive Summary

c had the most wins, coming in first place for 55% of the tests.

Based on the geometric mean of all complete results, the fastest (b) was 1.009x the speed of the slowest (a). c was 1x the speed of b, d was 0.994x the speed of c, a was 0.997x the speed of d.

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

Kvazaar (Video Input: Bosphorus 1080p - Video Preset: Slow) at 1.025x
uvg266 (Video Input: Bosphorus 4K - Video Preset: Slow) at 1.024x
Kvazaar (Video Input: Bosphorus 4K - Video Preset: Medium) at 1.017x
uvg266 (Video Input: Bosphorus 1080p - Video Preset: Slow) at 1.016x
Kvazaar (Video Input: Bosphorus 1080p - Video Preset: Super Fast) at 1.015x
Kvazaar (Video Input: Bosphorus 1080p - Video Preset: Medium) at 1.014x
uvg266 (Video Input: Bosphorus 4K - Video Preset: Very Fast) at 1.013x
uvg266 (Video Input: Bosphorus 1080p - Video Preset: Very Fast) at 1.013x
uvg266 (Video Input: Bosphorus 1080p - Video Preset: Medium) at 1.013x

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uvg266 (Video Input: Bosphorus 1080p - Video Preset: Ultra Fast) at 1.013x.

Test Systems:

a

b

c

d

Processor: AMD Ryzen 7 PRO 6850U @ 4.77GHz (8 Cores / 16 Threads), Motherboard: LENOVO 21CM0001US (R22ET51W 1.21 BIOS), Chipset: AMD Device 14b5, Memory: 16GB, Disk: 512GB Micron MTFDKBA512TFK, Graphics: AMD Radeon 680M 1GB (2200/400MHz), Audio: AMD Rembrandt Radeon HD Audio, Network: Qualcomm QCNFA765

OS: Ubuntu 22.10, Kernel: 6.1.0-060100rc2daily20221028-generic (x86_64), Desktop: GNOME Shell 43.0, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.2.1 (LLVM 15.0.2 DRM 3.49), Vulkan: 1.3.224, Compiler: GCC 12.2.0, File-System: ext4, Screen Resolution: 1920x1200

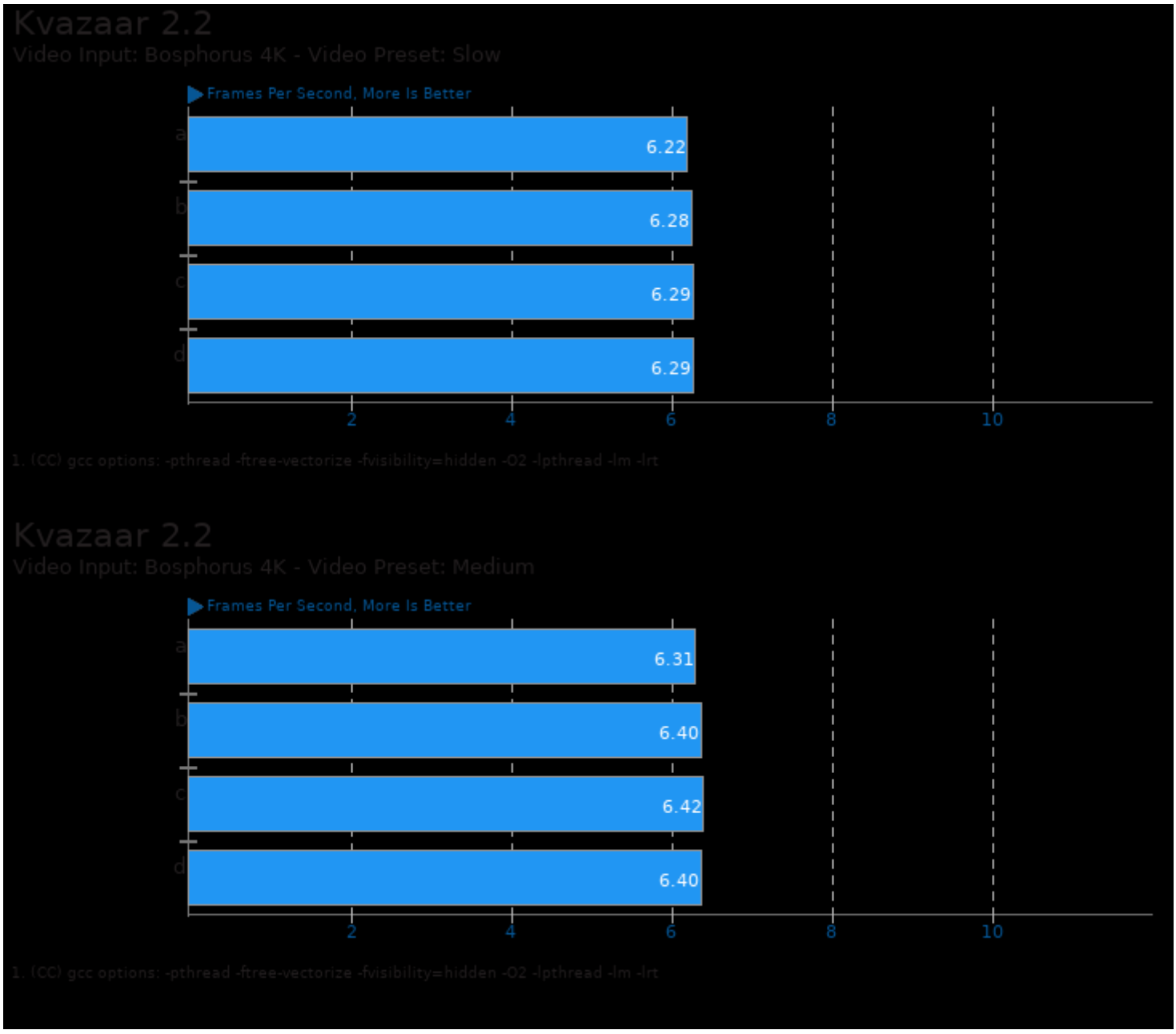
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --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: amd-pstate schedutil (Boost: Enabled) - Platform Profile: performance - CPU Microcode: 0xa404102 - ACPI Profile: performance
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 PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

	a	b	c	d
Kvazaar - Bosphorus 4K - Slow (FPS)	**6.22**	6.28	**6.29**	**6.29**
Normalized	98.89%	99.84%	100%	100%
Kvazaar - Bosphorus 4K - Medium	**6.31**	6.4	**6.42**	6.4
Normalized	98.29%	99.69%	100%	99.69%
Kvazaar - Bosphorus 1080p - Slow (FPS)	**34.19**	34.56	**35.03**	34.83
Normalized	97.6%	98.66%	100%	99.43%
Kvazaar - Bosphorus 1080p - Medium (FPS)	**35.76**	36.26	**36.27**	36.25
Normalized	98.59%	99.97%	100%	99.94%

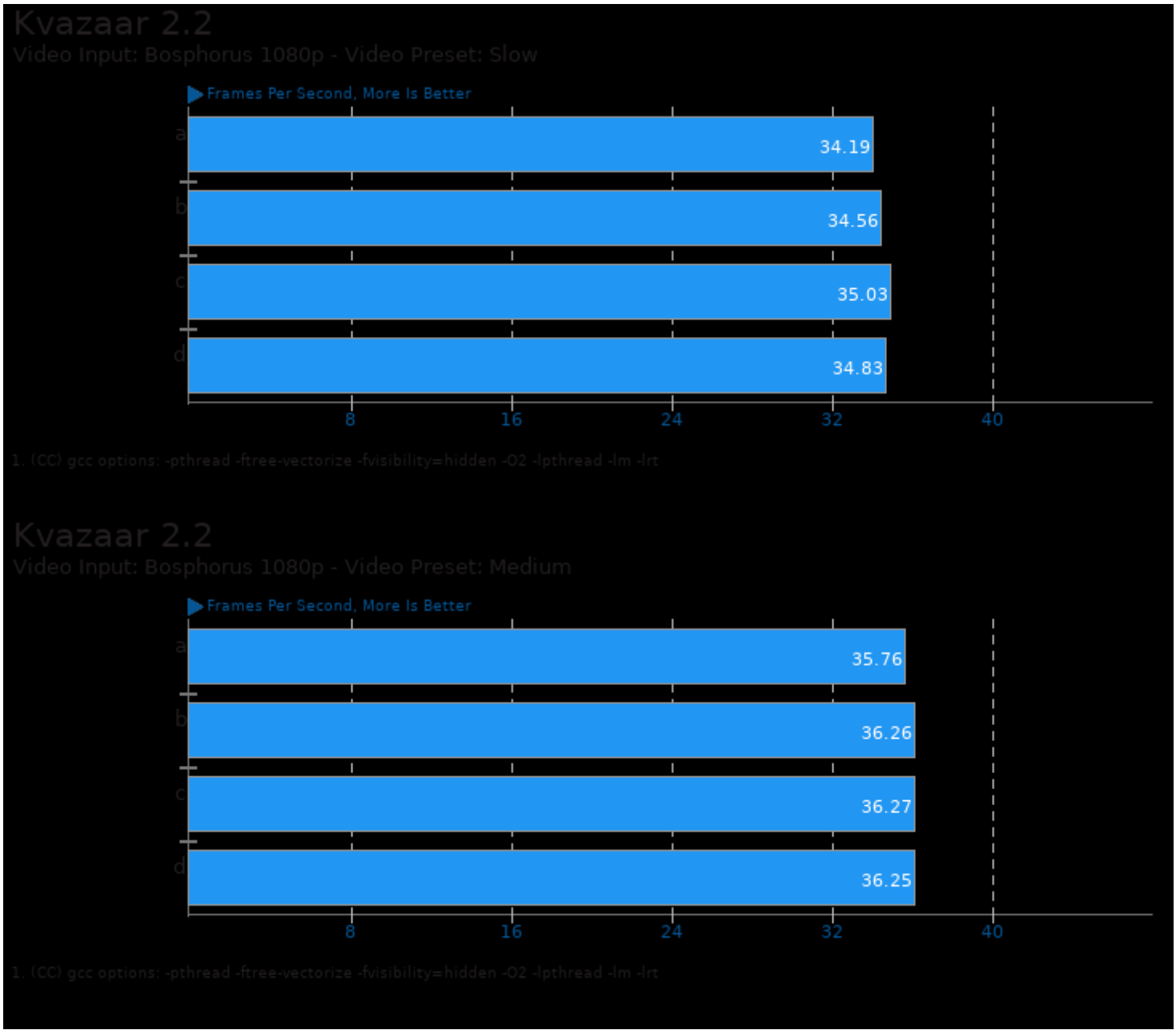
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Kvazaar - Bosphorus 4K - Very Fast (FPS)	**16.11**	16.19	**16.2**	16.17
Normalized	99.44%	99.94%	100%	99.81%
Kvazaar - Bosphorus 4K - Super Fast (FPS)	20.11	**20.22**	**20.06**	20.1
Normalized	99.46%	100%	99.21%	99.41%
Kvazaar - Bosphorus 4K - Ultra Fast (FPS)	**27.26**	27.43	27.36	**27.45**
Normalized	99.31%	99.93%	99.67%	100%
Kvazaar - Bosphorus 1080p - Very Fast (FPS)	73.62	**74.15**	73.92	**73.3**
Normalized	99.29%	100%	99.69%	98.85%
Kvazaar - Bosphorus 1080p - Super Fast (FPS)	**93.72**	**95.1**	93.87	93.76
Normalized	98.55%	100%	98.71%	98.59%
Kvazaar - Bosphorus 1080p - Ultra Fast (FPS)	126.6	**128.01**	127.15	**126.46**
Normalized	98.9%	100%	99.33%	98.79%
uvg266 - Bosphorus 4K - Slow (FPS)	**3.77**	3.84	**3.86**	3.8
Normalized	97.67%	99.48%	100%	98.45%
uvg266 - Bosphorus 4K - Medium	**4.27**	**4.32**	**4.32**	**4.27**
Normalized	98.84%	100%	100%	98.84%
uvg266 - Bosphorus 1080p - Slow	21.52	21.69	**21.82**	**21.48**
Normalized	98.63%	99.4%	100%	98.44%
uvg266 - Bosphorus 1080p - Medium (FPS)	**24.28**	**24.59**	24.47	24.31
Normalized	98.74%	100%	99.51%	98.86%
uvg266 - Bosphorus 4K - Very Fast (FPS)	13.02	**13.13**	13.09	**12.96**
Normalized	99.16%	100%	99.7%	98.71%
uvg266 - Bosphorus 4K - Super Fast (FPS)	**13.48**	13.51	**13.54**	**13.48**
Normalized	99.56%	99.78%	100%	99.56%
uvg266 - Bosphorus 4K - Ultra Fast (FPS)	16.35	16.41	**16.45**	**16.33**
Normalized	99.39%	99.76%	100%	99.27%
uvg266 - Bosphorus 1080p - Very Fast (FPS)	63.92	**64.11**	63.82	**63.29**
Normalized	99.7%	100%	99.55%	98.72%
uvg266 - Bosphorus 1080p - Super Fast (FPS)	67.5	67.41	**67.79**	**67.19**
Normalized	99.57%	99.44%	100%	99.11%
uvg266 - Bosphorus 1080p - Ultra Fast (FPS)	**80.25**	81.04	**81.27**	81.03
Normalized	98.74%	99.72%	100%	99.7%

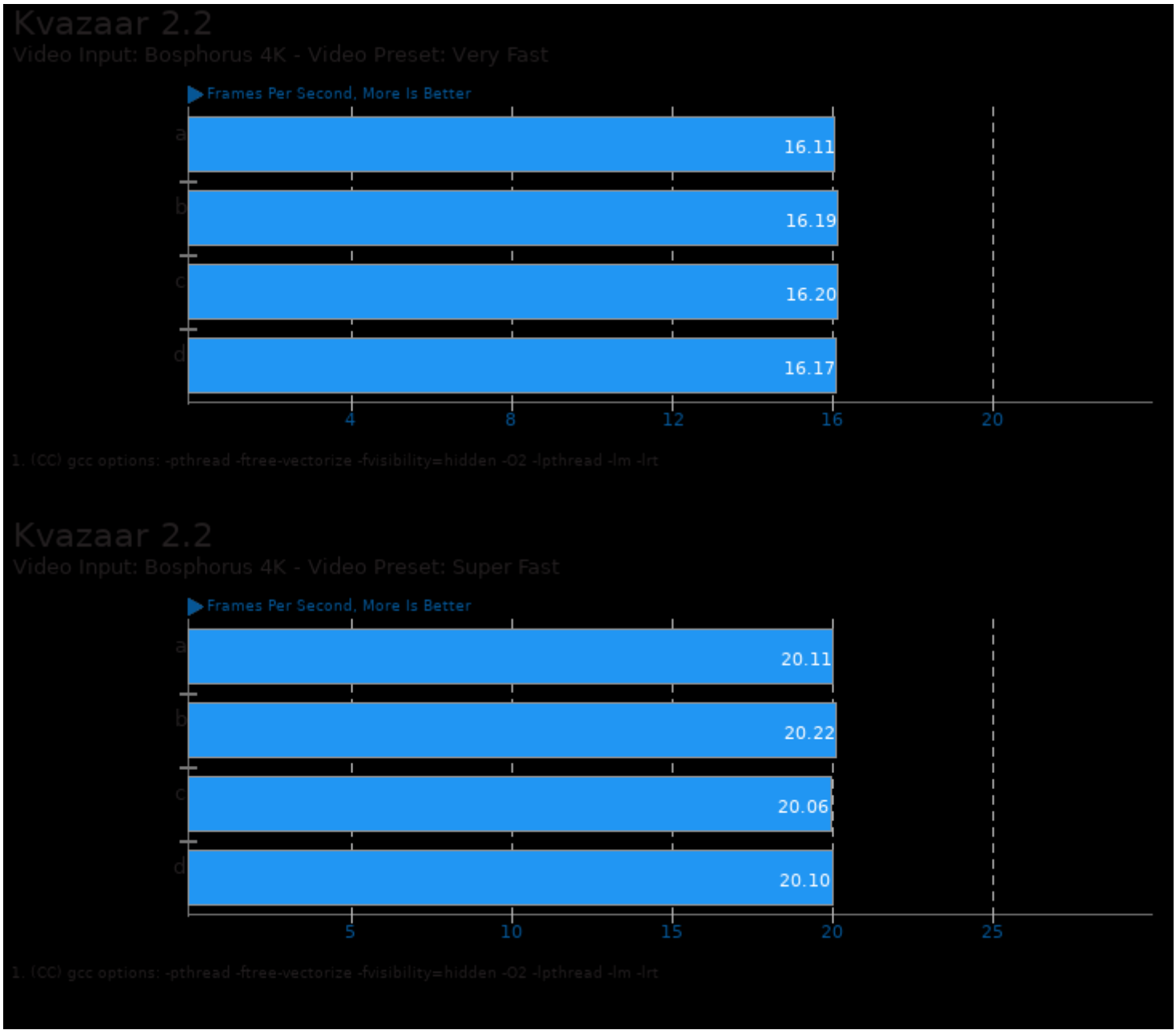
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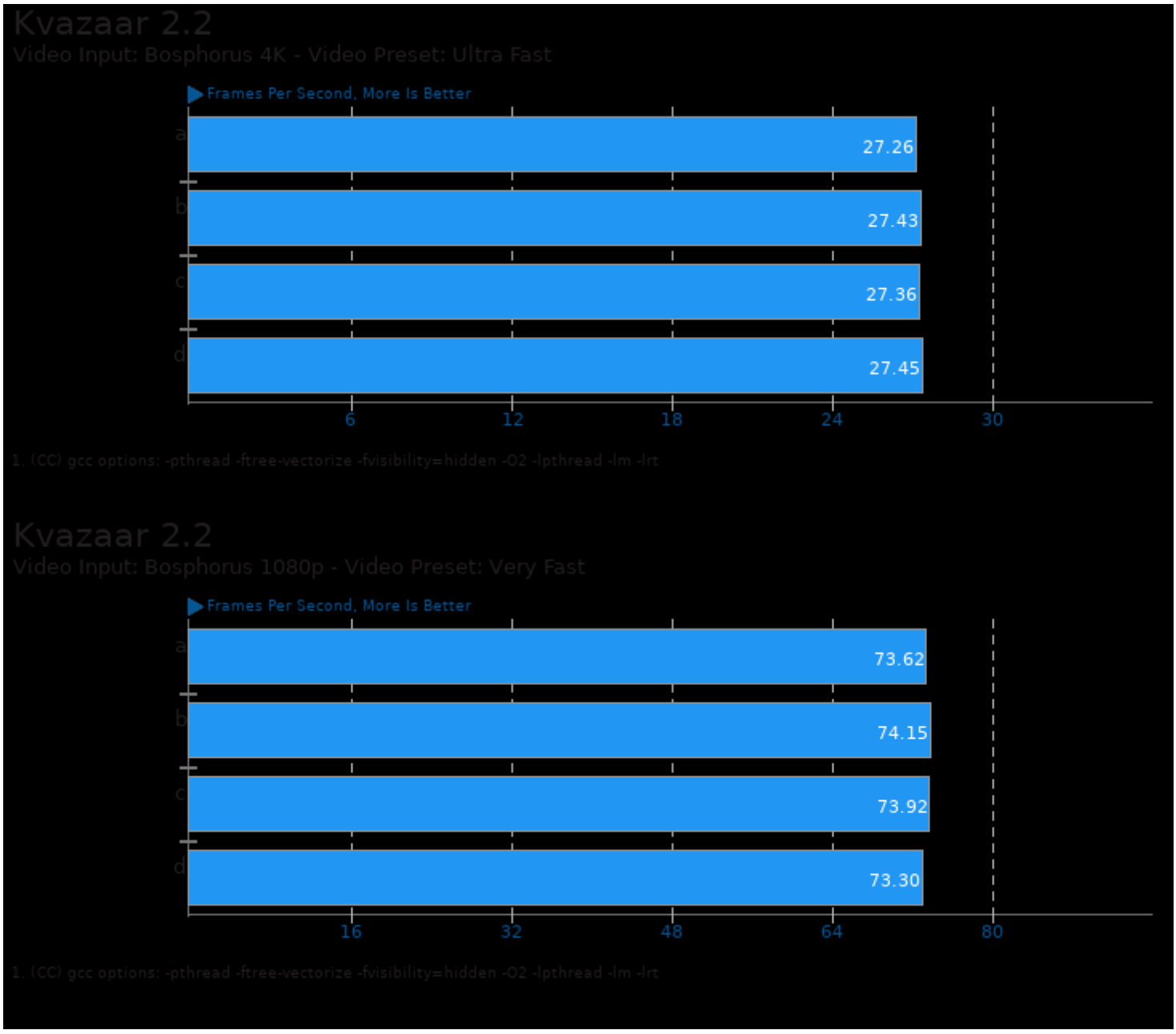
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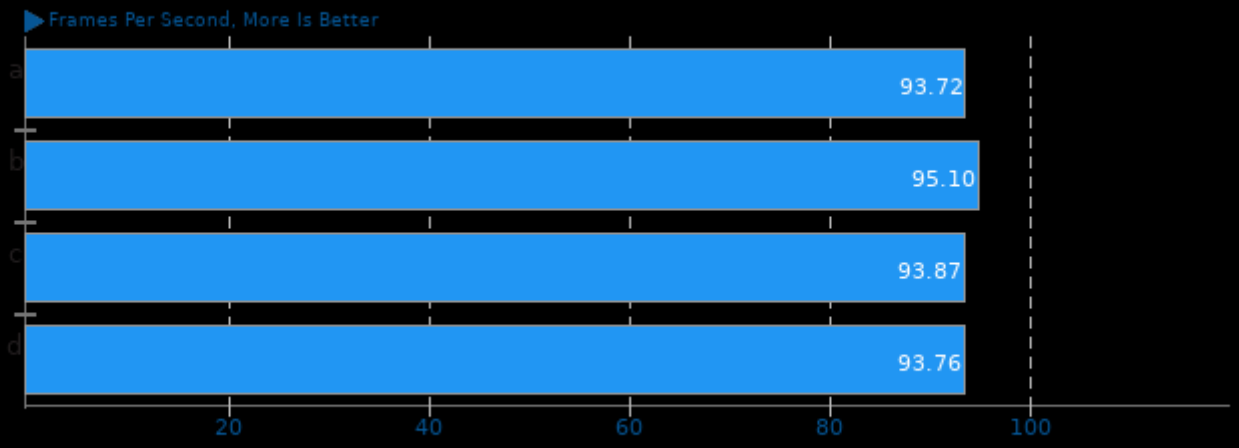
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Kvazaar 2.2

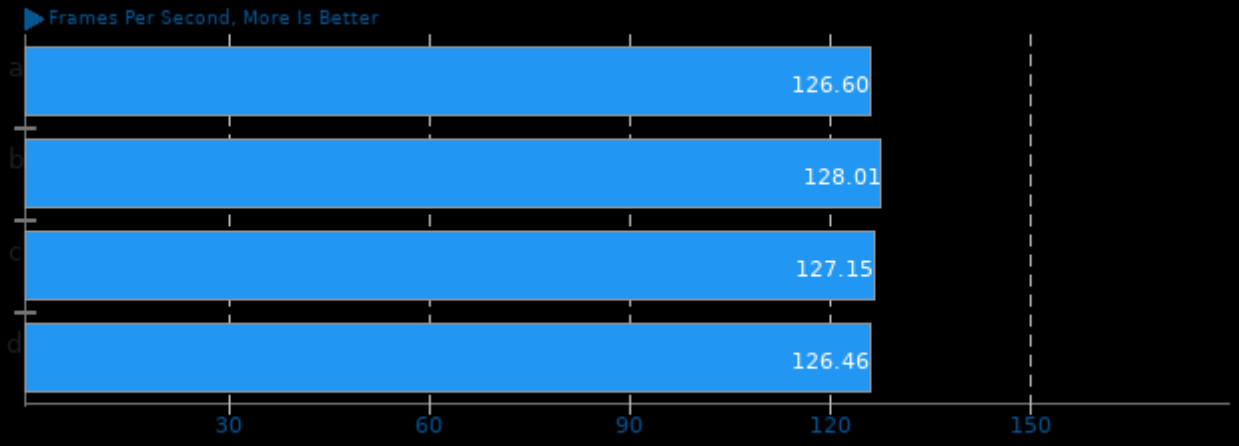
Video Input: Bosphorus 1080p - Video Preset: Super Fast



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

Kvazaar 2.2

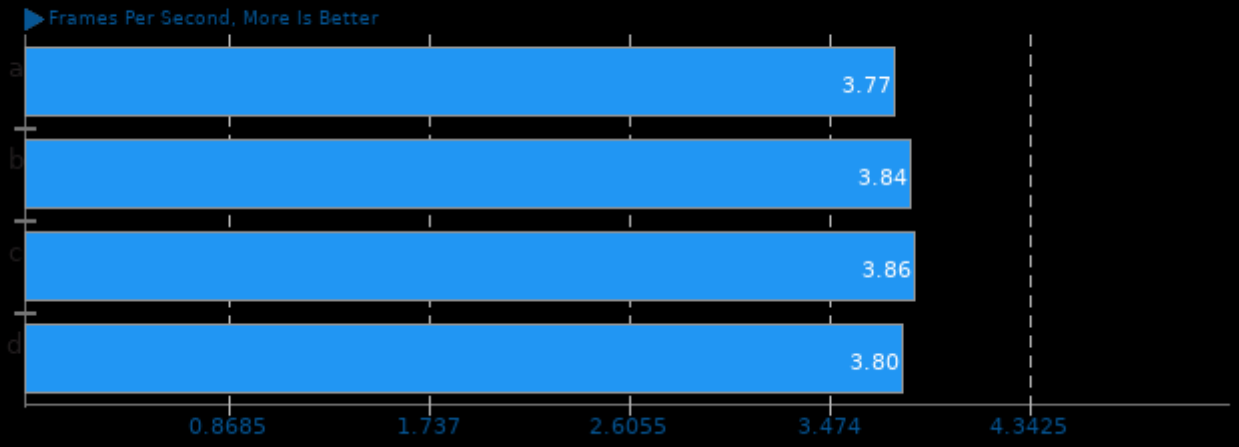
Video Input: Bosphorus 1080p - Video Preset: Ultra Fast



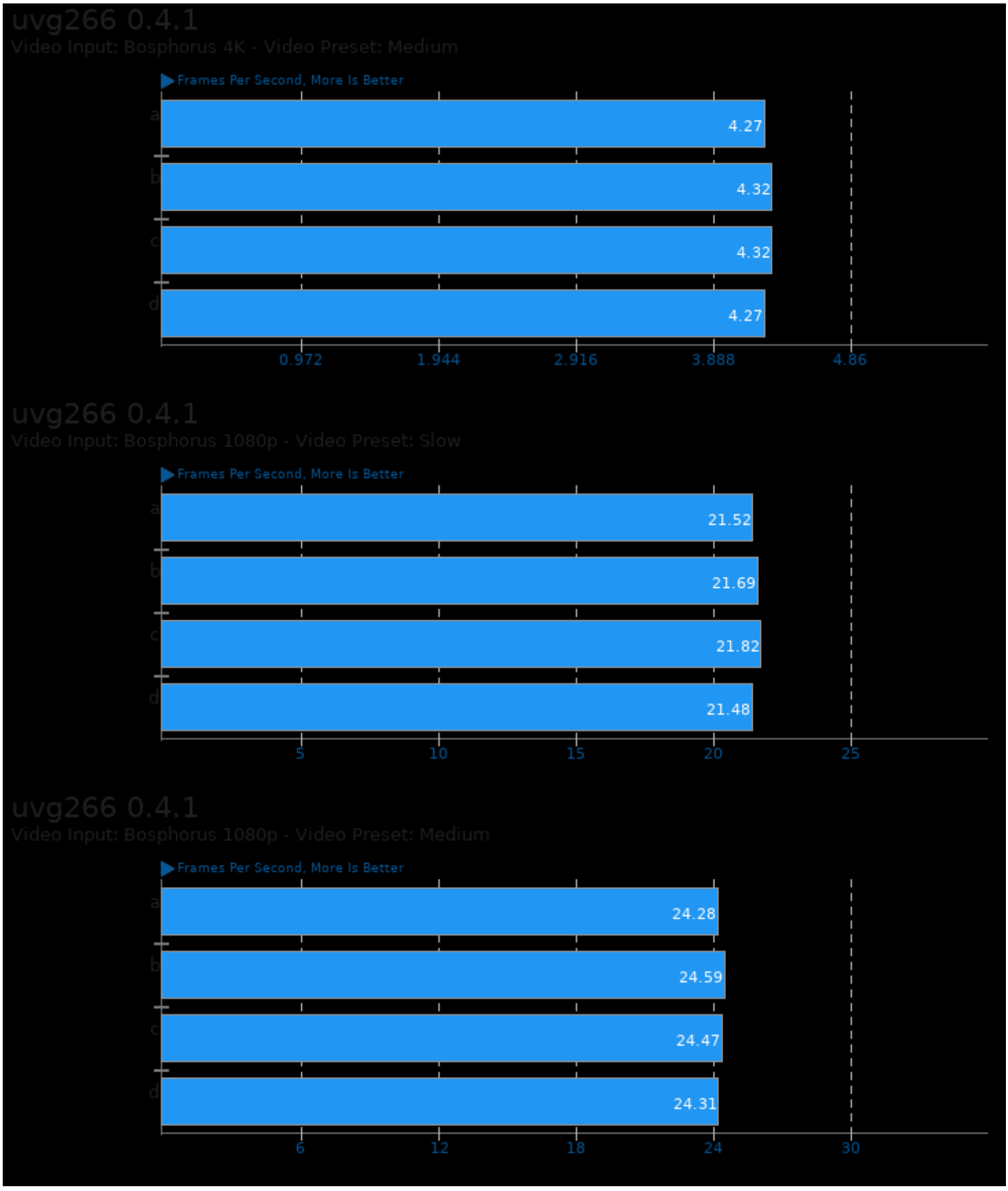
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

uvg266 0.4.1

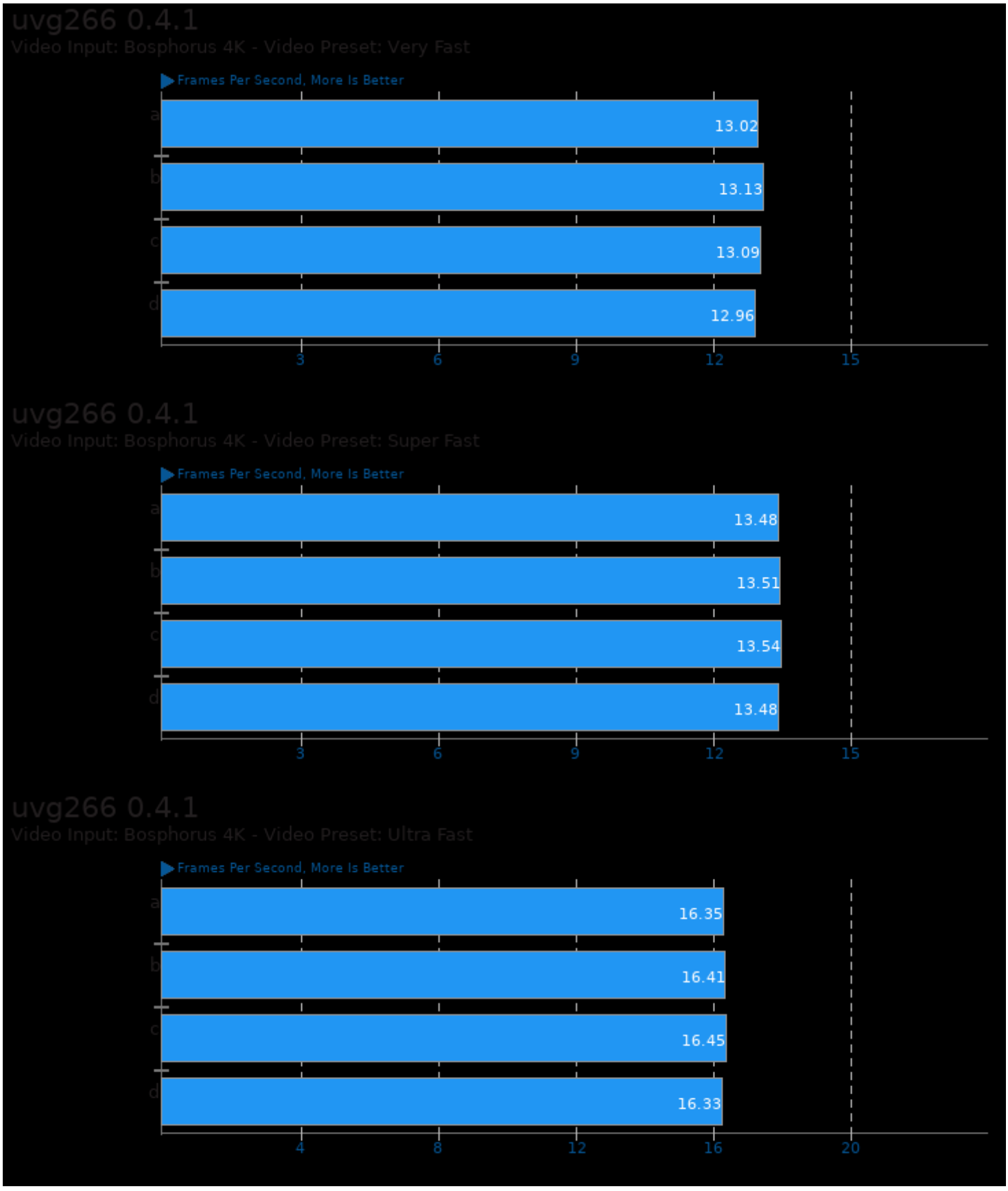
Video Input: Bosphorus 4K - Video Preset: Slow



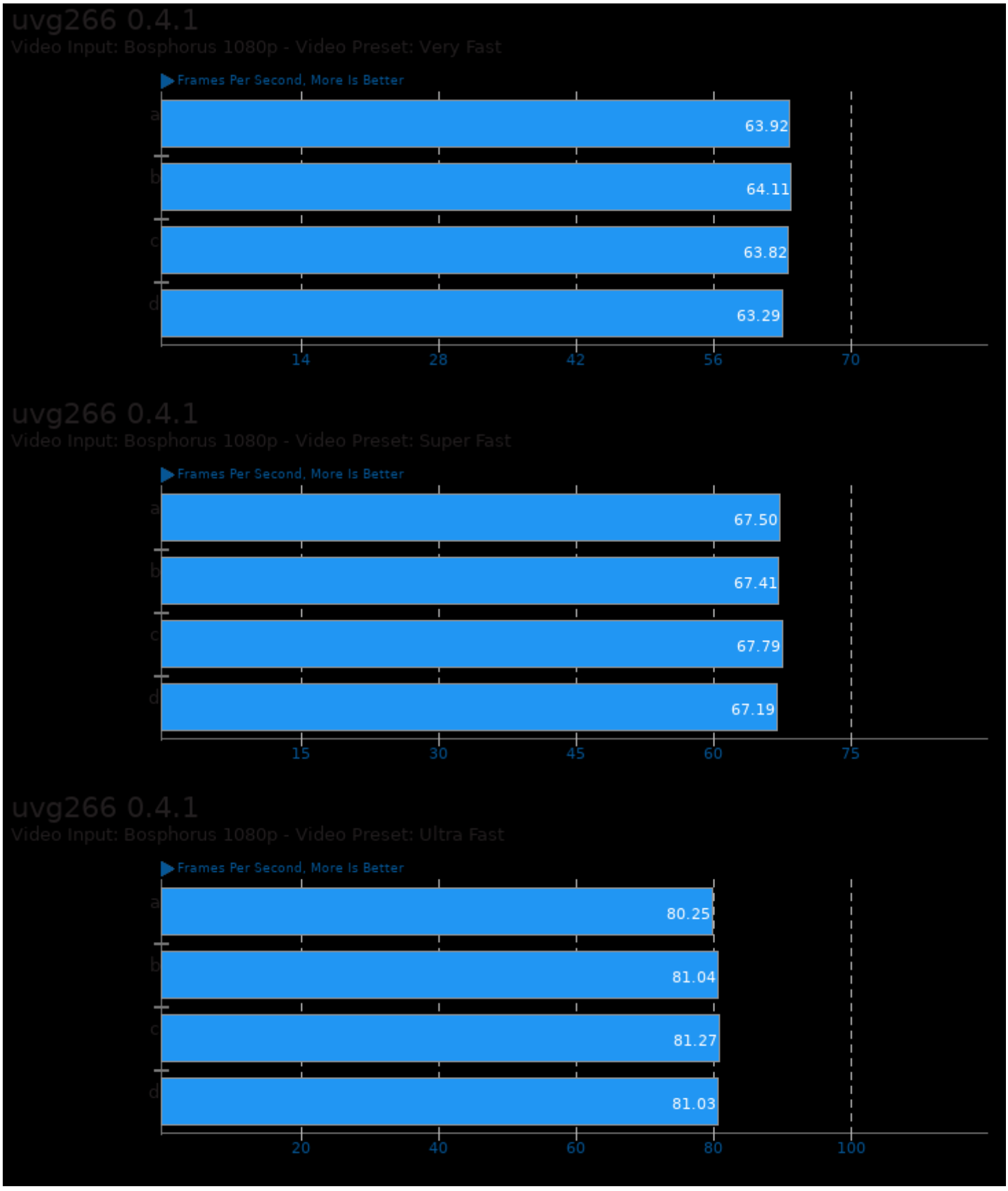
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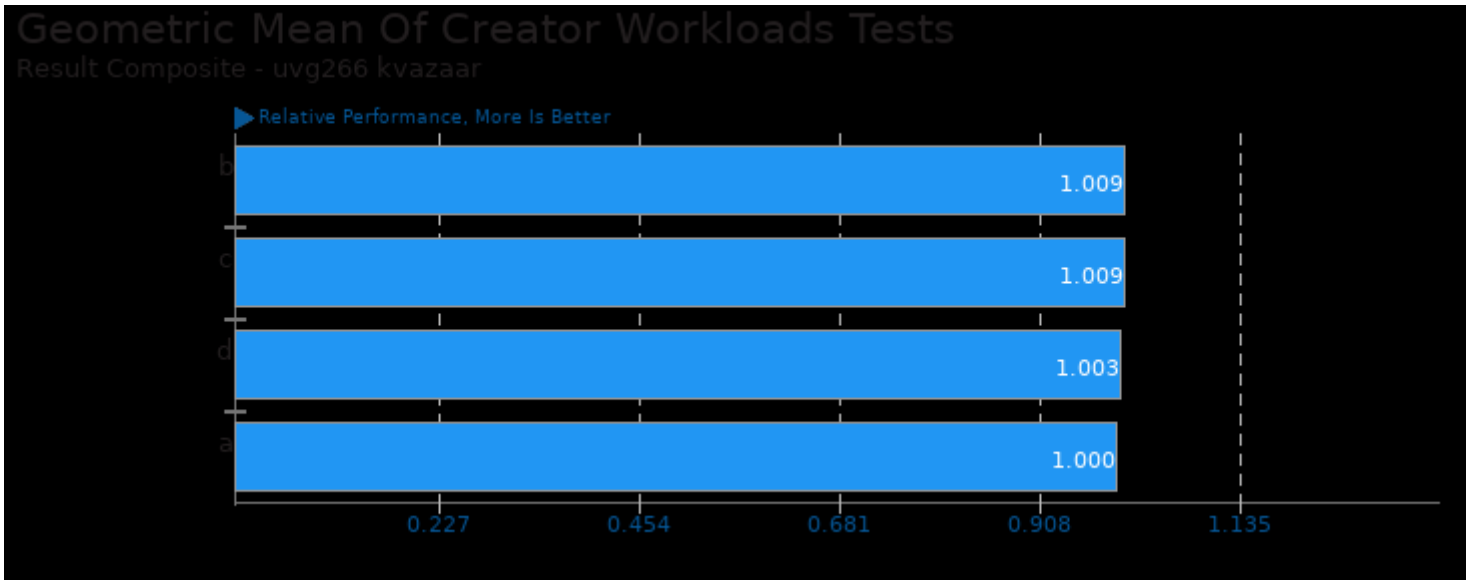


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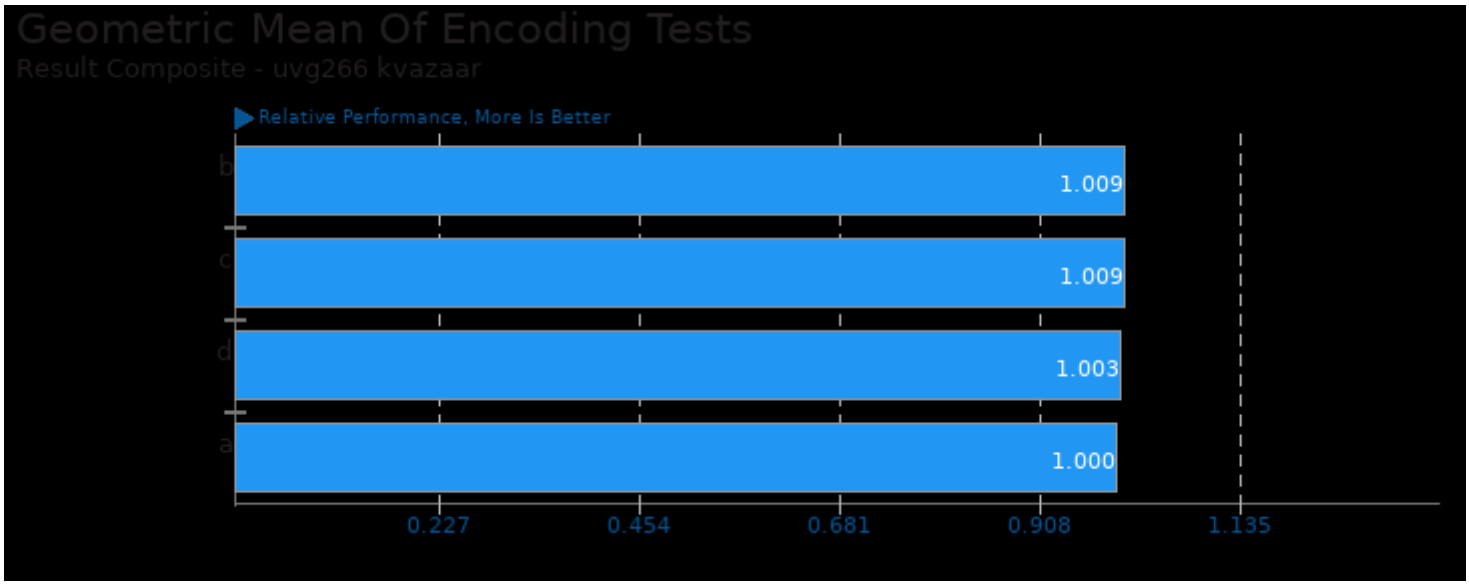


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These geometric means are based upon test groupings / test suites for this result file.

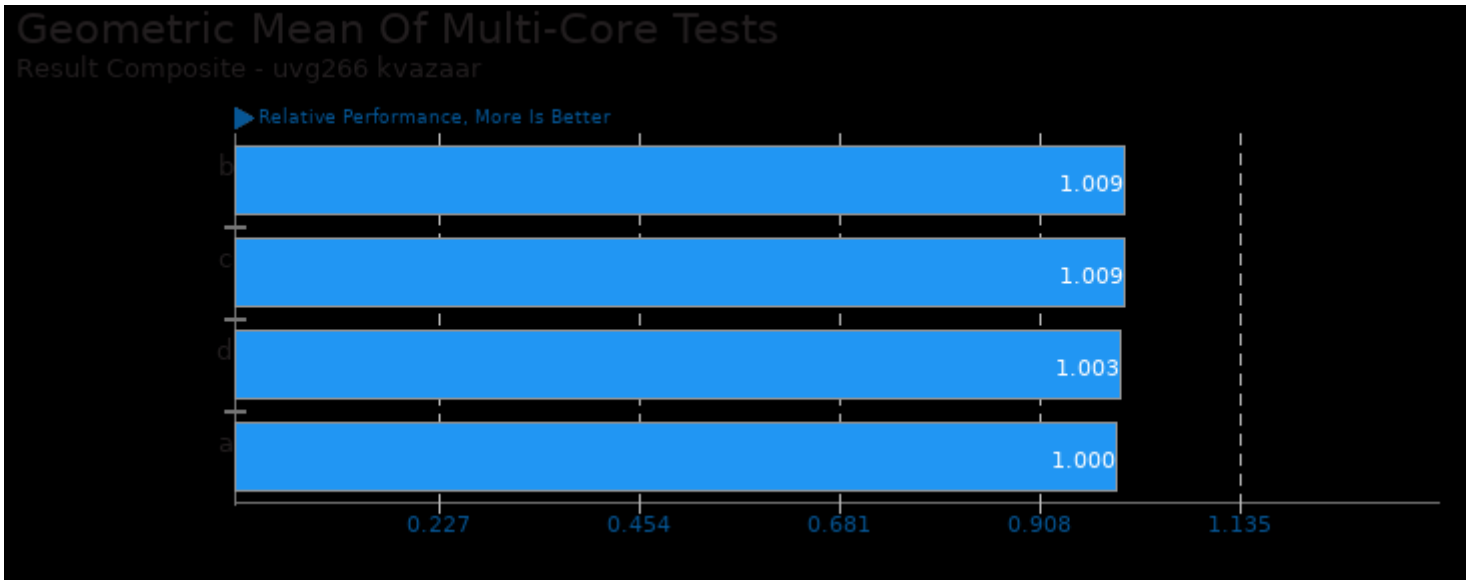


Geometric mean based upon tests: pts/kvazaar and pts/uvg266

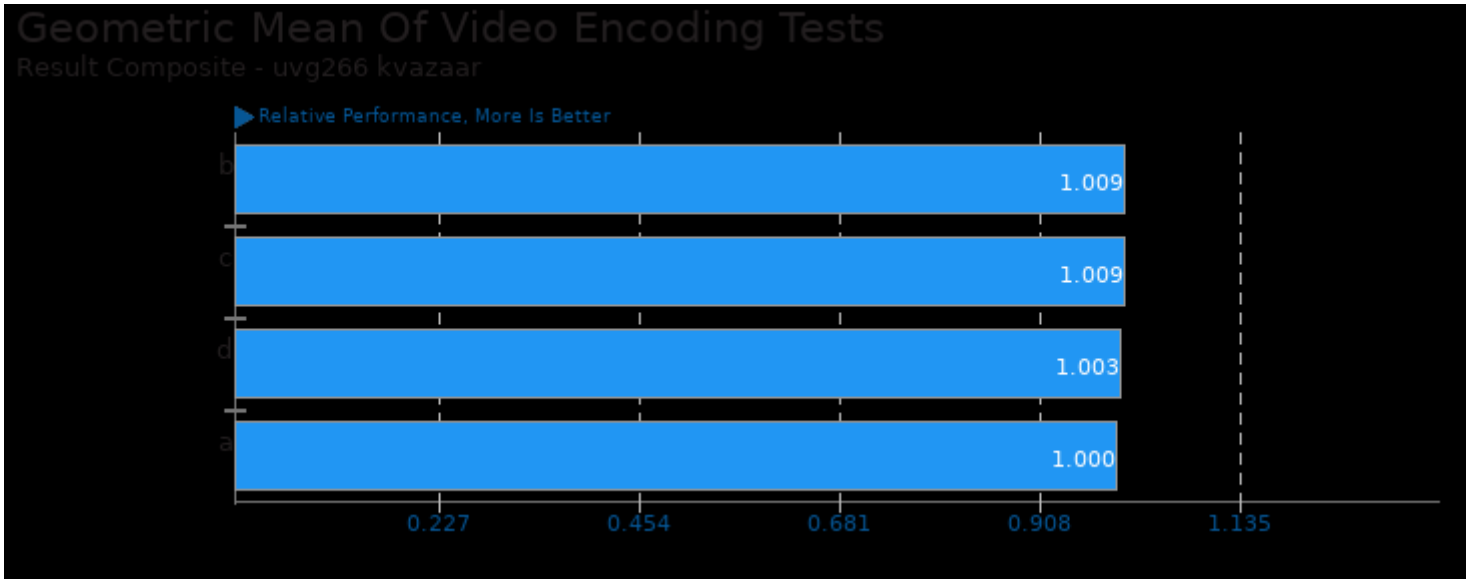


Geometric mean based upon tests: pts/kvazaar and pts/uvg266

uvg266 kvazaar



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



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 07:55.