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kvazaar uvg266

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 60% of the tests.

Based on the geometric mean of all complete results, the fastest (a) was 1.002x the speed of the slowest (b). c was 0.999x the speed of a and 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 1.01x
Kvazaar (Video Input: Bosphorus 1080p - Video Preset: Very Fast) at 1.008x
uvg266 (Video Input: Bosphorus 1080p - Video Preset: Super Fast) at 1.007x
uvg266 (Video Input: Bosphorus 1080p - Video Preset: Very Fast) at 1.007x
Kvazaar (Video Input: Bosphorus 4K - Video Preset: Medium) at 1.006x
uvg266 (Video Input: Bosphorus 4K - Video Preset: Very Fast) at 1.006x
uvg266 (Video Input: Bosphorus 4K - Video Preset: Slow) at 1.005x
Kvazaar (Video Input: Bosphorus 1080p - Video Preset: Medium) at 1.005x
Kvazaar (Video Input: Bosphorus 1080p - Video Preset: Super Fast) at 1.005x

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uvg266 (Video Input: Bosphorus 4K - Video Preset: Ultra Fast) at 1.005x.

Test Systems:

a

b

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

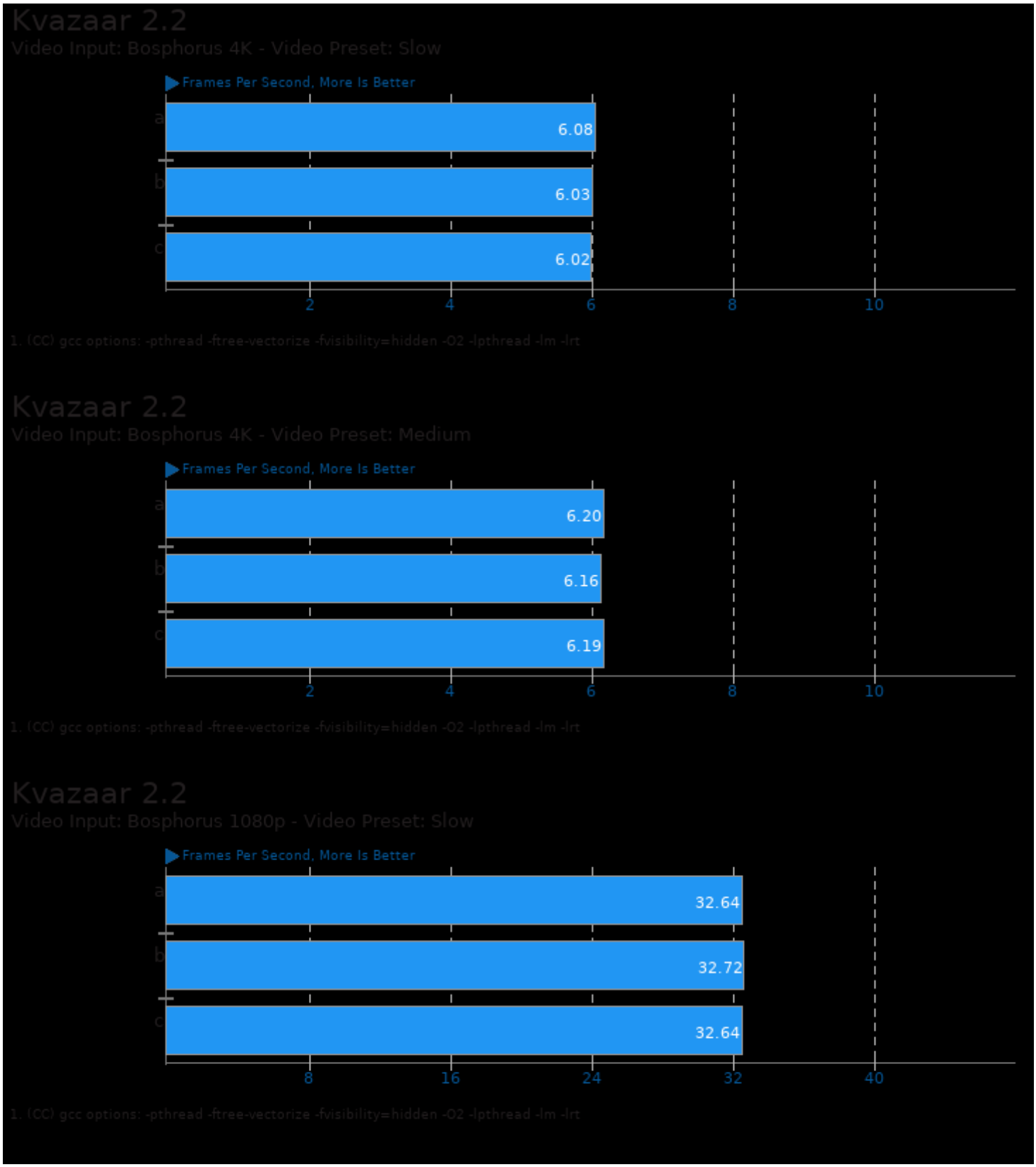
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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
Kvazaar - Bosphorus 4K - Slow (FPS)	**6.08**	6.03	**6.02**
Normalized	100%	99.18%	99.01%
Kvazaar - Bosphorus 4K - Medium (FPS)	**6.2**	**6.16**	6.19
Normalized	100%	99.35%	99.84%
Kvazaar - Bosphorus 1080p - Slow (FPS)	**32.64**	**32.72**	**32.64**
Normalized	99.76%	100%	99.76%
Kvazaar - Bosphorus 1080p - Medium (FPS)	33.93	**33.85**	**34.01**
Normalized	99.76%	99.53%	100%
Kvazaar - Bosphorus 4K - Very Fast (FPS)	**15.45**	**15.39**	15.4
Normalized	100%	99.61%	99.68%
Kvazaar - Bosphorus 4K - Super Fast (FPS)	**19.04**	**18.96**	18.99
Normalized	100%	99.58%	99.74%
Kvazaar - Bosphorus 4K - Ultra Fast (FPS)	**25.52**	**25.47**	**25.47**
Normalized	100%	99.8%	99.8%

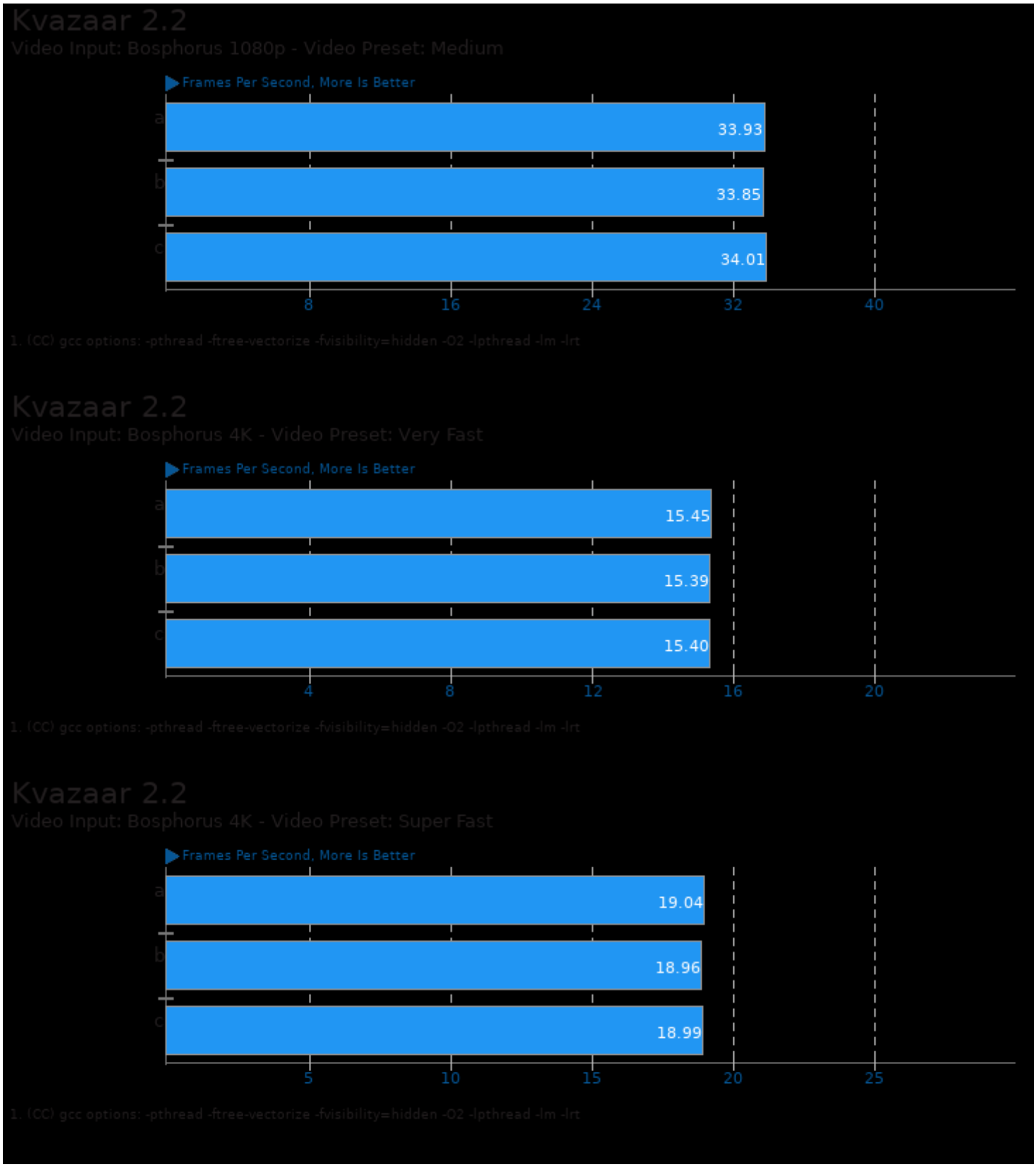
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Kvazaar - Bosphorus 1080p - Very Fast (FPS)	**69.71**	**69.18**	69.65
Normalized	100%	99.24%	99.91%
Kvazaar - Bosphorus 1080p - Super Fast	88.17	**88.05**	**88.46**
Normalized	99.67%	99.54%	100%
Kvazaar - Bosphorus 1080p - Ultra Fast	**117.37**	117.52	**117.86**
Normalized	99.58%	99.71%	100%
uvg266 - Bosphorus 4K - Slow (FPS)	**3.65**	**3.67**	**3.67**
Normalized	99.46%	100%	100%
uvg266 - Bosphorus 4K - Medium (FPS)	**4.09**	**4.1**	**4.09**
Normalized	99.76%	100%	99.76%
uvg266 - Bosphorus 1080p - Slow (FPS)	**20.2**	**20.14**	**20.2**
Normalized	100%	99.7%	100%
uvg266 - Bosphorus 1080p - Medium (FPS)	**22.61**	**22.62**	**22.61**
Normalized	99.96%	100%	99.96%
uvg266 - Bosphorus 4K - Very Fast (FPS)	**12.46**	**12.39**	12.44
Normalized	100%	99.44%	99.84%
uvg266 - Bosphorus 4K - Super Fast (FPS)	**12.75**	12.77	**12.78**
Normalized	99.77%	99.92%	100%
uvg266 - Bosphorus 4K - Ultra Fast (FPS)	**15.34**	**15.27**	15.33
Normalized	100%	99.54%	99.93%
uvg266 - Bosphorus 1080p - Very Fast (FPS)	**58.78**	58.7	**58.37**
Normalized	100%	99.86%	99.3%
uvg266 - Bosphorus 1080p - Super Fast	**61.42**	61.03	**60.99**
Normalized	100%	99.37%	99.3%
uvg266 - Bosphorus 1080p - Ultra Fast (FPS)	**74.03**	**73.79**	74.02
Normalized	100%	99.68%	99.99%

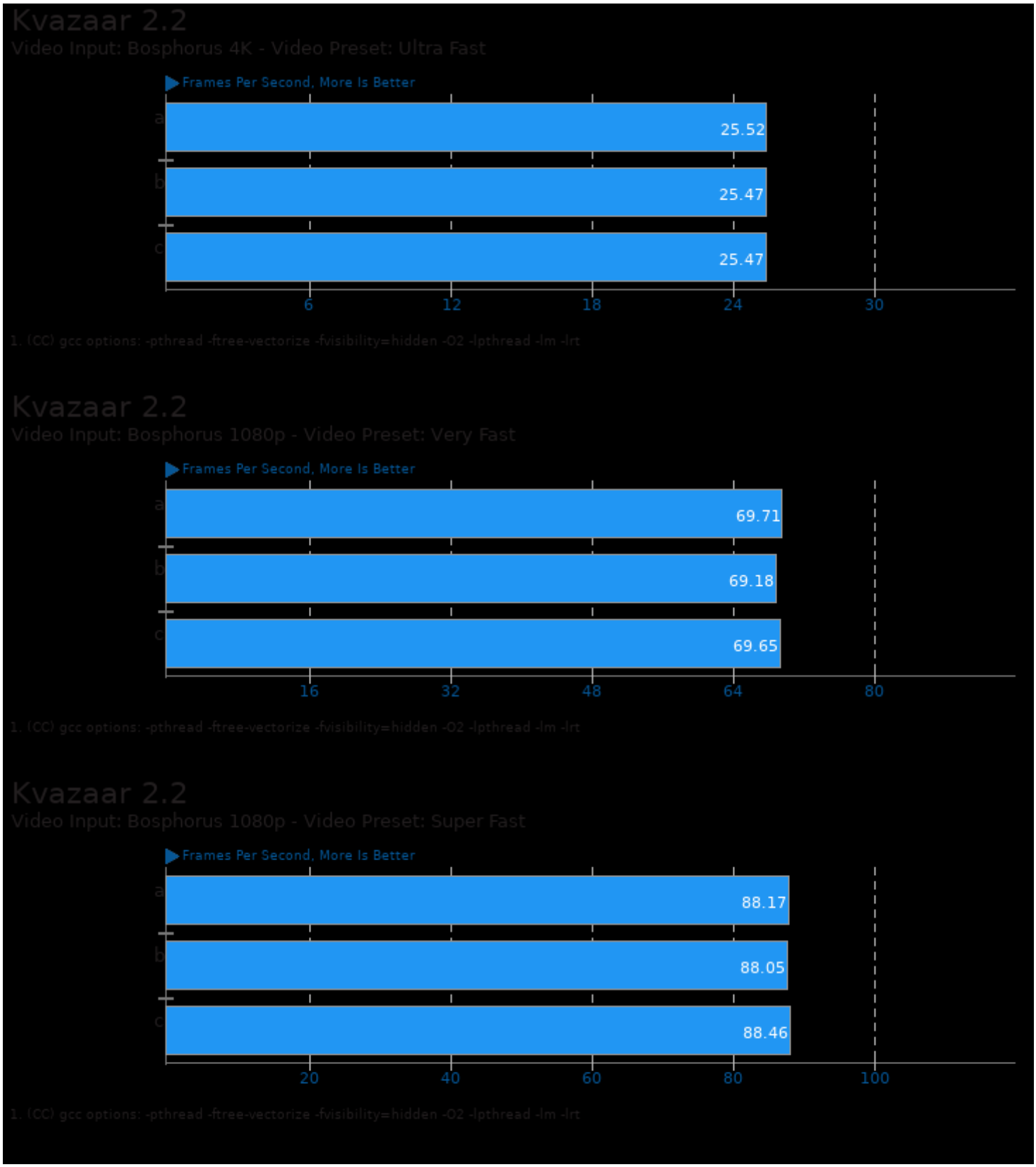
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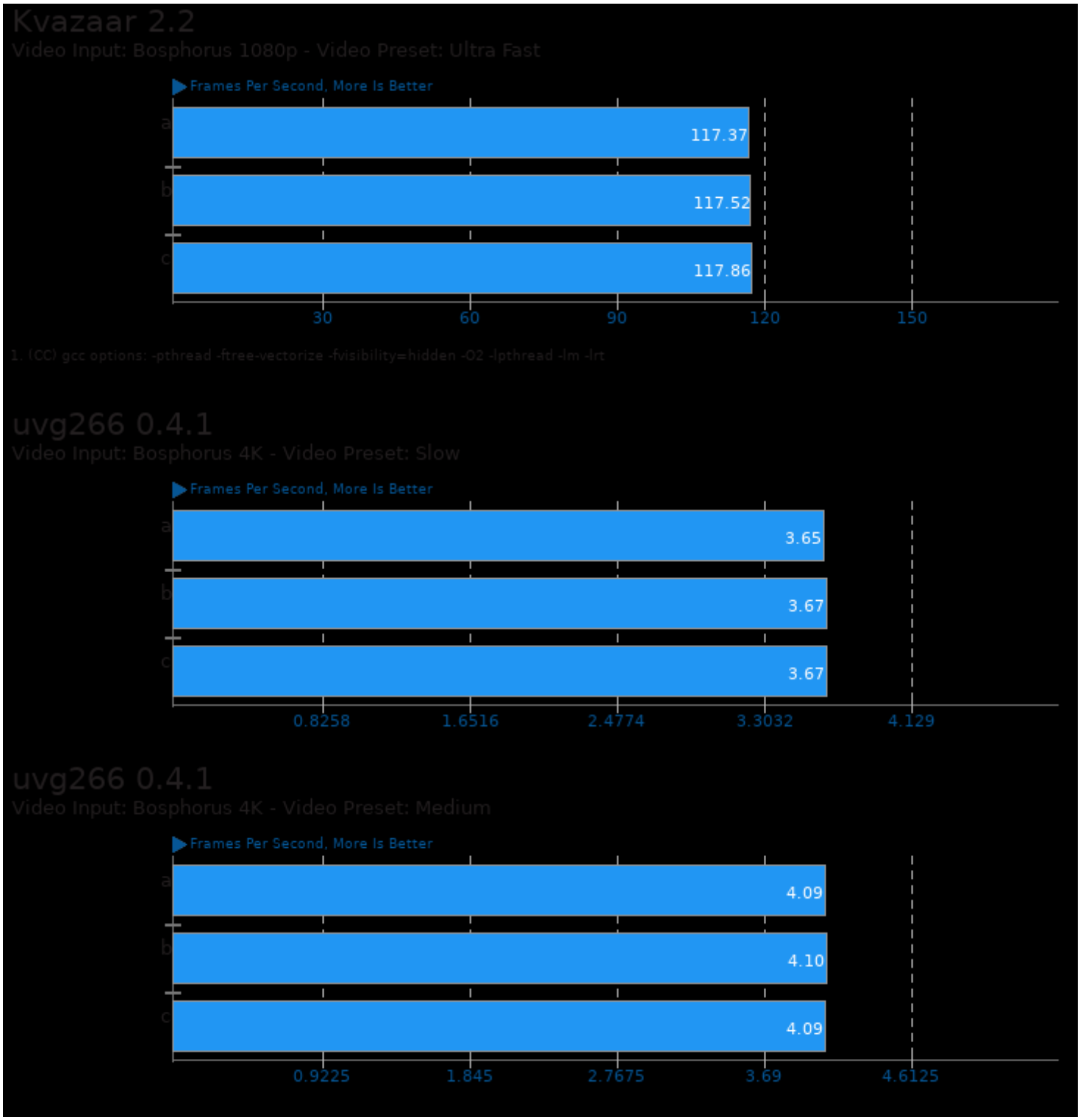
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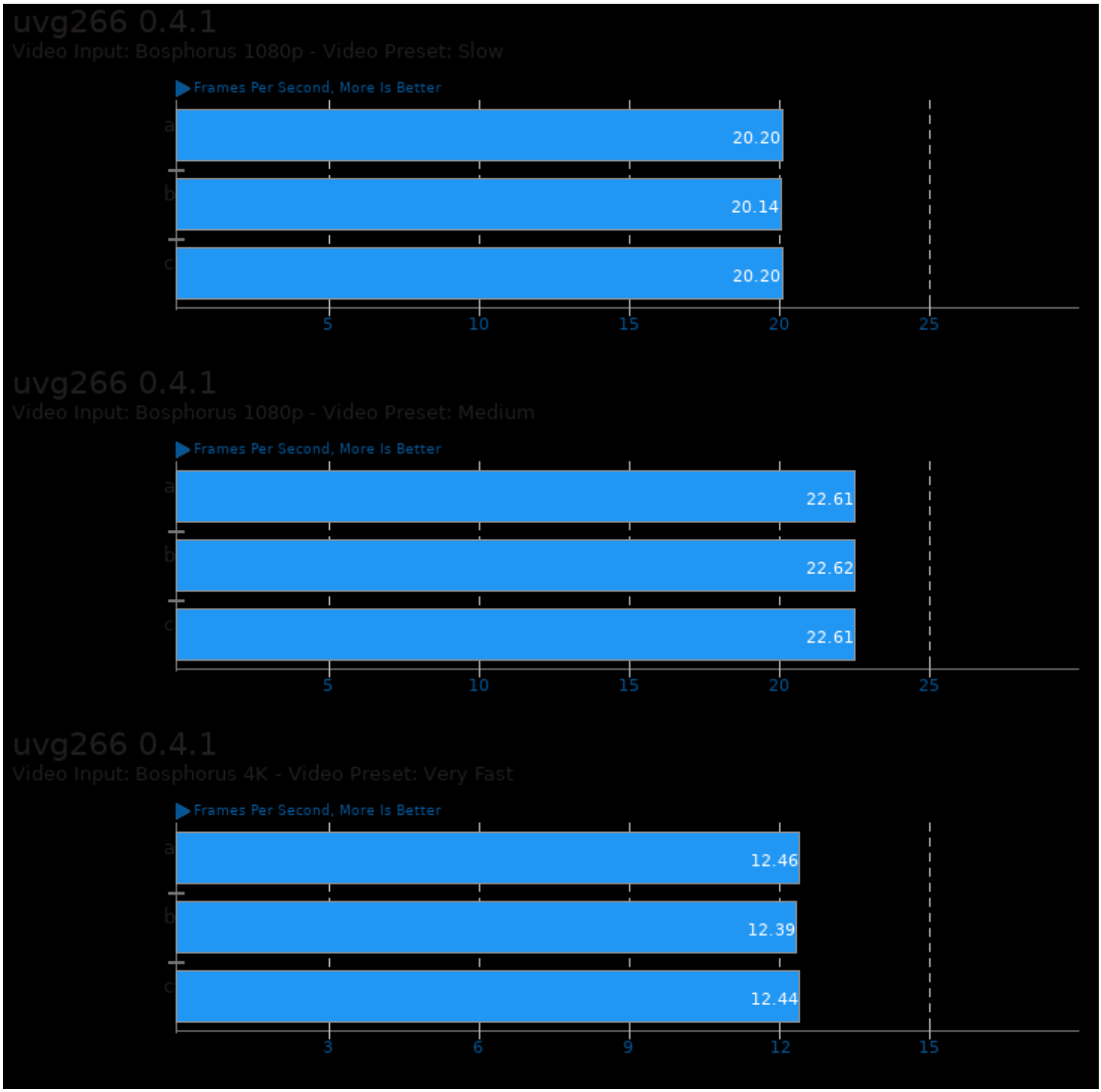
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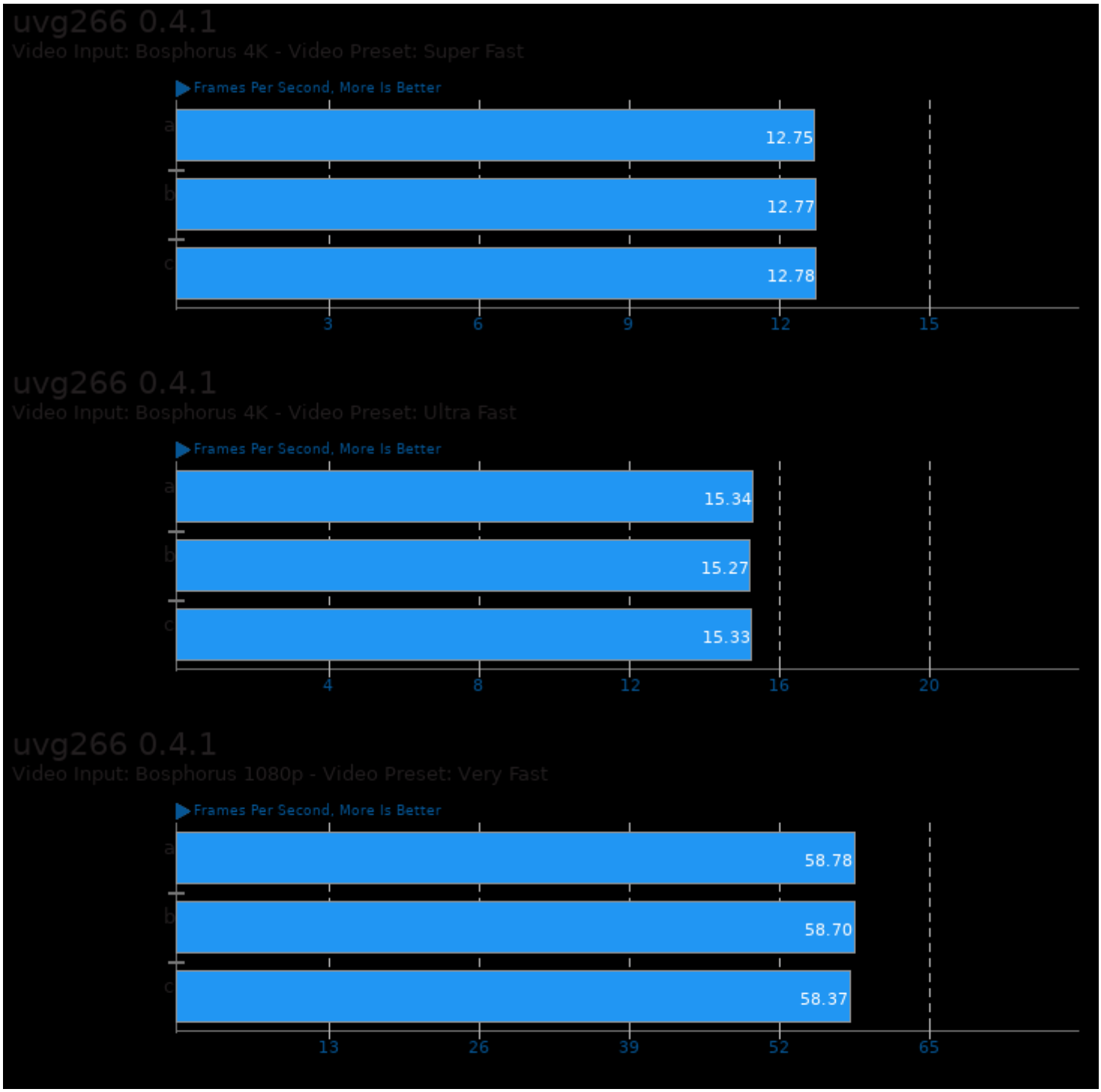
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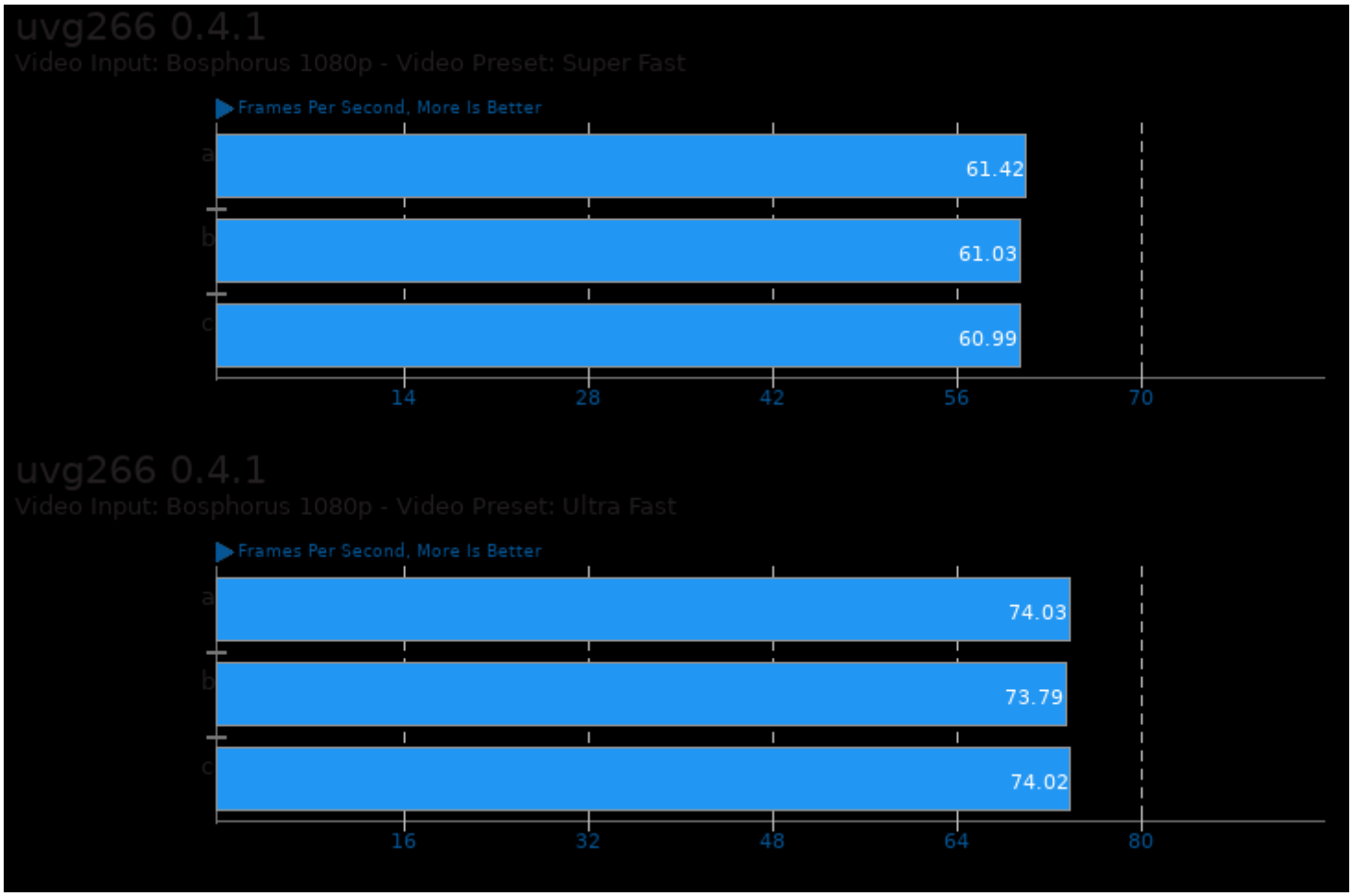
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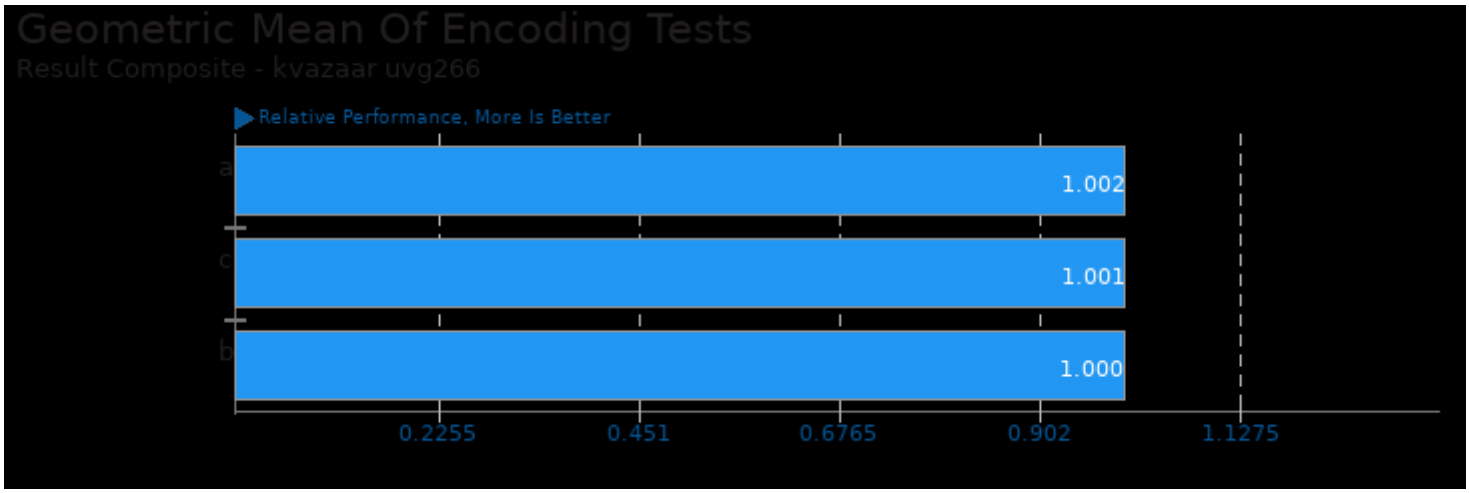


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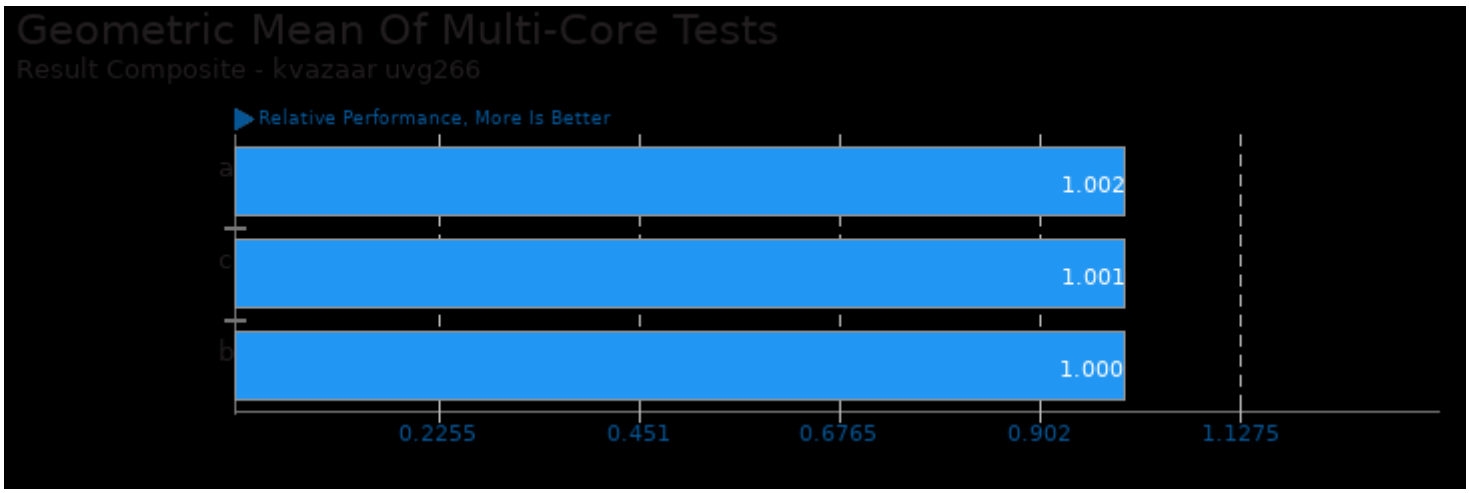
These geometric means are based upon test groupings / test suites for this result file.



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

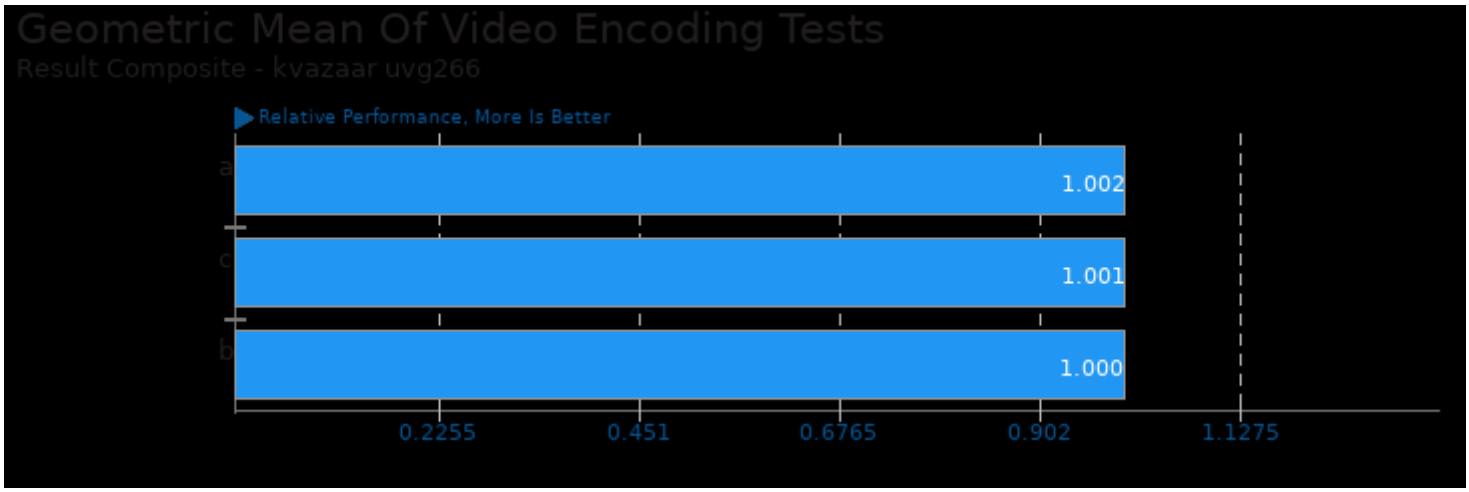


Geometric mean based upon tests: pts/kvazaar and pts/uvg266



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

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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 18:04.