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alderlake p kvazaar uvg266

Intel Core i7-1280P testing with a MSI MS-14C6 (E14C6IMS.115 BIOS) and MSI Intel ADL GT2 15GB 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 (c) was 1.005x the speed of the slowest (a). b was 1x the speed of c and a was 0.996x the speed of b.

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

Kvazaar (Video Input: Bosphorus 4K - Video Preset: Super Fast) at 1.043x
Kvazaar (Video Input: Bosphorus 1080p - Video Preset: Medium) at 1.041x
Kvazaar (Video Input: Bosphorus 4K - Video Preset: Slow) at 1.023x
Kvazaar (Video Input: Bosphorus 1080p - Video Preset: Super Fast) at 1.02x
Kvazaar (Video Input: Bosphorus 4K - Video Preset: Medium) at 1.018x
Kvazaar (Video Input: Bosphorus 1080p - Video Preset: Slow) at 1.018x
uvg266 (Video Input: Bosphorus 1080p - Video Preset: Slow) at 1.014x
uvg266 (Video Input: Bosphorus 1080p - Video Preset: Ultra Fast) at 1.013x
uvg266 (Video Input: Bosphorus 4K - Video Preset: Ultra Fast) at 1.013x

uvg266 (Video Input: Bosphorus 4K - Video Preset: Very Fast) at 1.01x.

Test Systems:

a

b

c

Processor: Intel Core i7-1280P @ 4.80GHz (14 Cores / 20 Threads), Motherboard: MSI MS-14C6 (E14C6IMS.115 BIOS), Chipset: Intel Alder Lake PCH, Memory: 16GB, Disk: 1024GB Micron_3400_MTFDKBA1T0TFH, Graphics: MSI Intel ADL GT2 15GB (1450MHz), Audio: Realtek ALC274, Network: Intel Alder Lake-P PCH CNVi WiFi

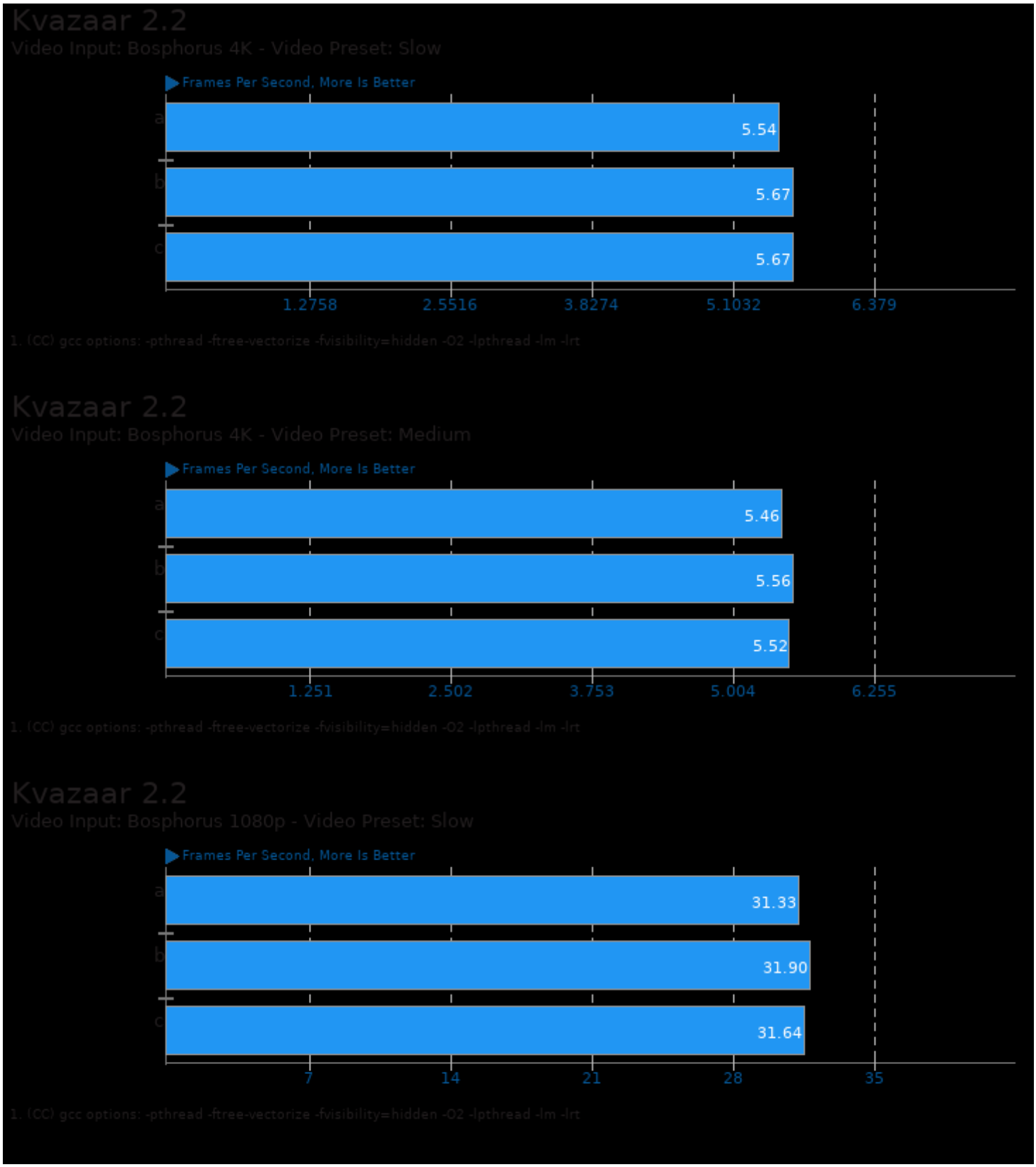
OS: Ubuntu 22.10, Kernel: 5.19.0-26-generic (x86_64), Desktop: Xfce 4.16, Display Server: X Server 1.21.1.4, OpenGL: 4.6 Mesa 22.2.1, OpenCL: OpenCL 3.0, Vulkan: 1.3.224, Compiler: GCC 12.2.0, File-System: ext4, Screen Resolution: 1920x1080

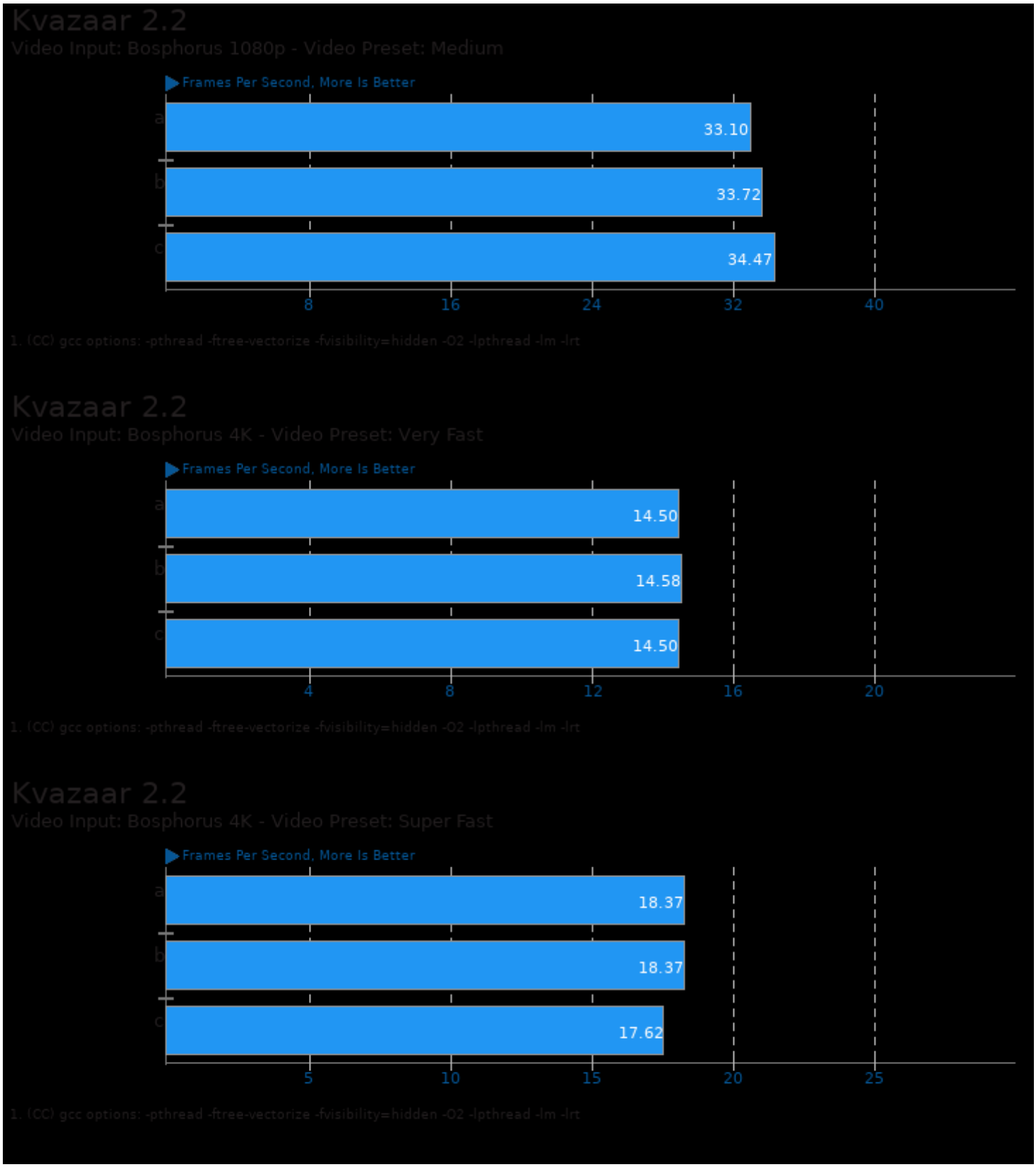
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --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: intel_pstate powersave (EPP: balance_performance) - CPU Microcode: 0x421 - Thermald 2.5.1
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 Enhanced IBRS IBPB: conditional RSB filling PBRSB-eIBRS: SW sequence + srbds: Not affected + tsx_async_abort: Not affected

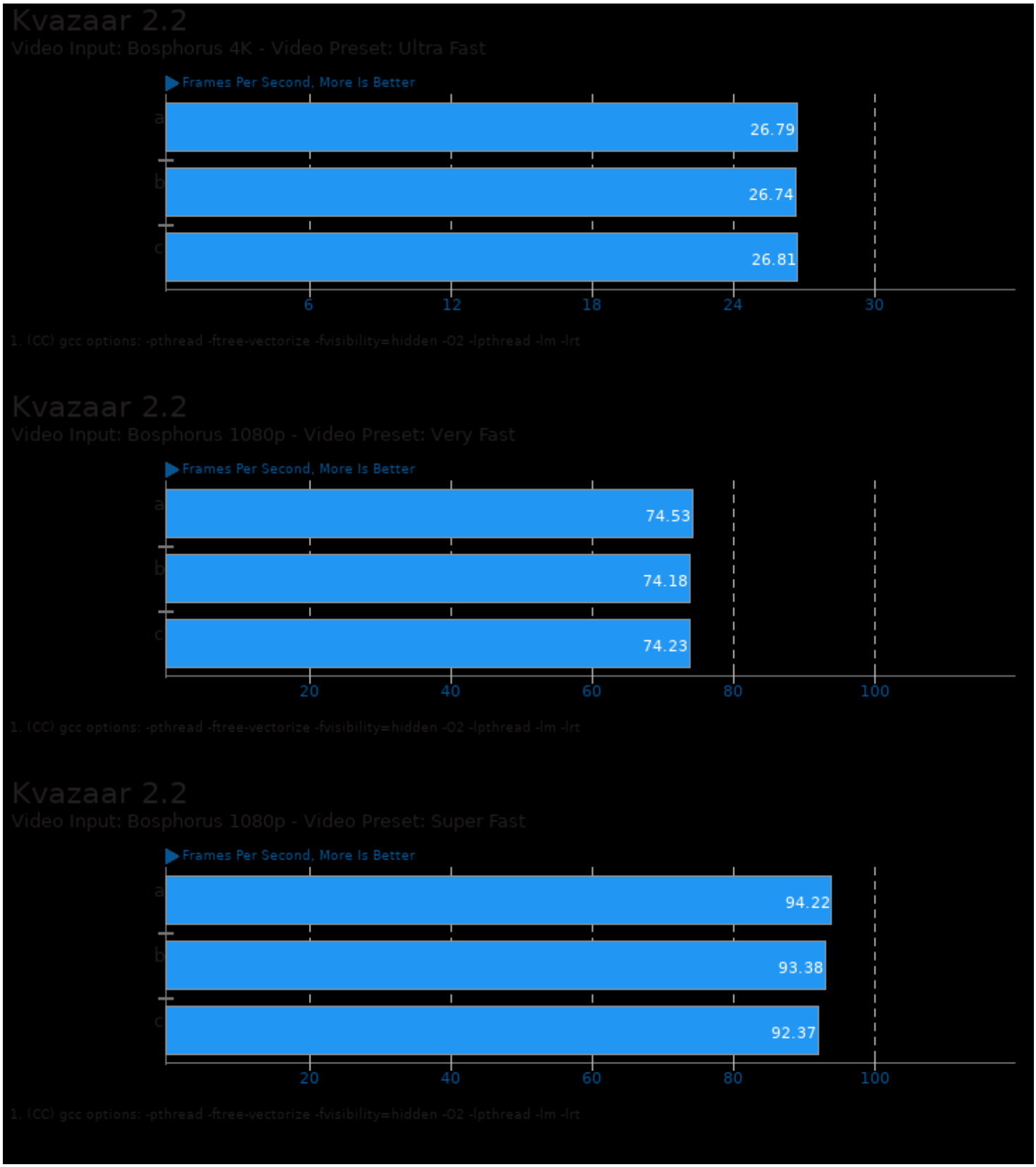
	a	b	c
Kvazaar - Bosphorus 4K - Slow (FPS)	**5.54**	**5.67**	**5.67**
Normalized	97.71%	100%	100%
Kvazaar - Bosphorus 4K - Medium (FPS)	**5.46**	**5.56**	5.52
Normalized	98.2%	100%	99.28%
Kvazaar - Bosphorus 1080p - Slow (FPS)	**31.33**	**31.9**	31.64
Normalized	98.21%	100%	99.18%
Kvazaar - Bosphorus 1080p - Medium (FPS)	**33.1**	33.72	**34.47**
Normalized	96.03%	97.82%	100%
Kvazaar - Bosphorus 4K - Very Fast (FPS)	**14.5**	**14.58**	**14.5**
Normalized	99.45%	100%	99.45%
Kvazaar - Bosphorus 4K - Super Fast (FPS)	**18.37**	**18.37**	**17.62**
Normalized	100%	100%	95.92%
Kvazaar - Bosphorus 4K - Ultra Fast (FPS)	26.79	**26.74**	**26.81**
Normalized	99.93%	99.74%	100%

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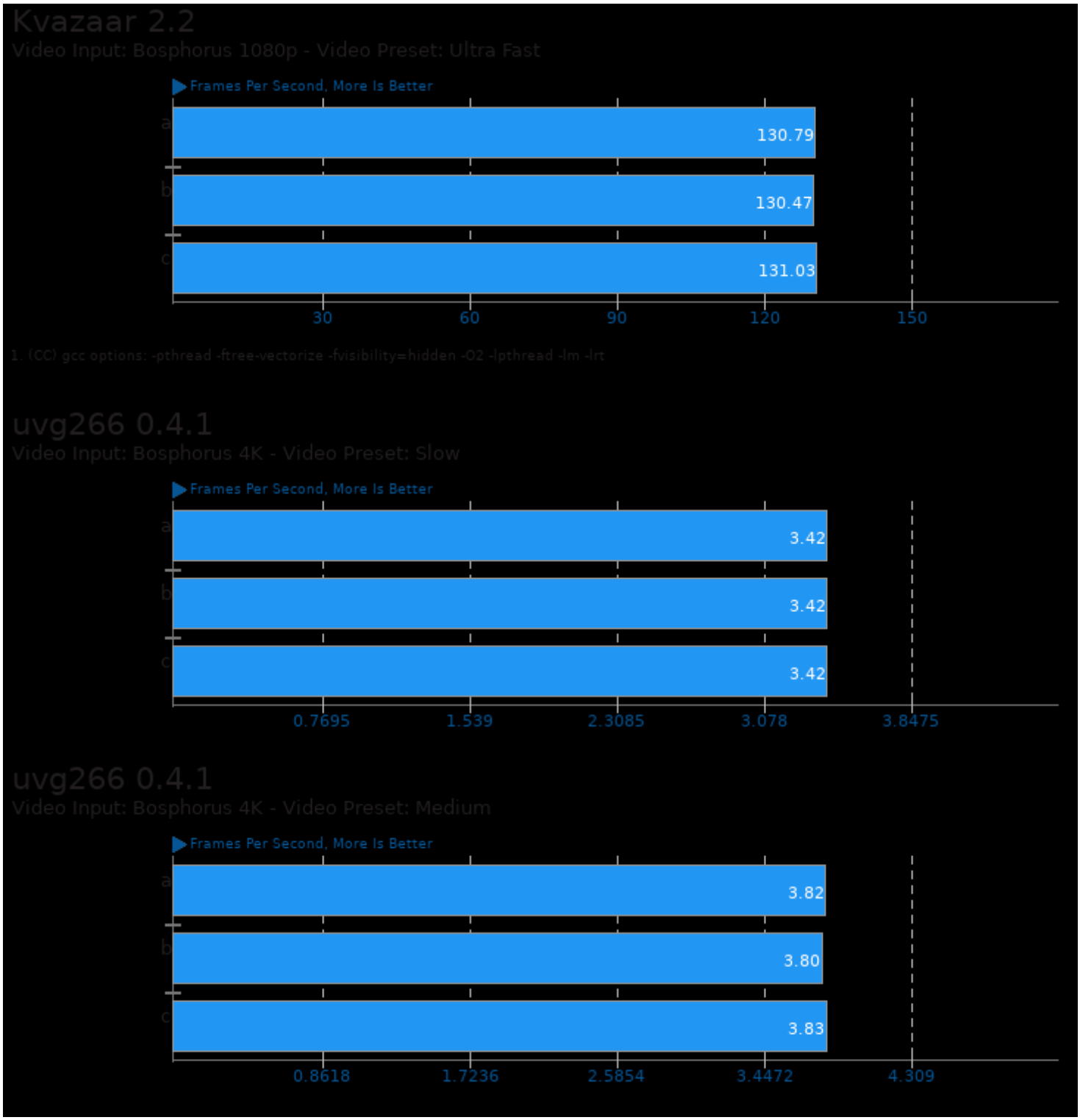
Kvazaar - Bosphorus 1080p - Very Fast (FPS)	**74.53**	**74.18**	74.23
Normalized	100%	99.53%	99.6%
Kvazaar - Bosphorus 1080p - Super Fast	**94.22**	93.38	**92.37**
Normalized	100%	99.11%	98.04%
Kvazaar - Bosphorus 1080p - Ultra Fast	130.79	**130.47**	**131.03**
Normalized	99.82%	99.57%	100%
uvg266 - Bosphorus 4K - Slow (FPS)	3.42	3.42	3.42
uvg266 - Bosphorus 4K - Medium (FPS)	3.82	**3.8**	**3.83**
Normalized	99.74%	99.22%	100%
uvg266 - Bosphorus 1080p - Slow (FPS)	**19.57**	**19.85**	19.76
Normalized	98.59%	100%	99.55%
uvg266 - Bosphorus 1080p - Medium (FPS)	**22.48**	22.53	**22.64**
Normalized	99.29%	99.51%	100%
uvg266 - Bosphorus 4K - Very Fast (FPS)	**11.52**	11.53	**11.64**
Normalized	98.97%	99.05%	100%
uvg266 - Bosphorus 4K - Super Fast (FPS)	**12.36**	12.38	**12.48**
Normalized	99.04%	99.2%	100%
uvg266 - Bosphorus 4K - Ultra Fast (FPS)	15.6	**15.52**	**15.72**
Normalized	99.24%	98.73%	100%
uvg266 - Bosphorus 1080p - Very Fast (FPS)	**64.62**	**64.62**	**64.76**
Normalized	99.78%	99.78%	100%
uvg266 - Bosphorus 1080p - Super Fast	**69.69**	70.09	**70.33**
Normalized	99.09%	99.66%	100%
uvg266 - Bosphorus 1080p - Ultra Fast (FPS)	**84.66**	85.41	**85.8**
Normalized	98.67%	99.55%	100%


Kvazaar 2.2
Video Input: Bosphorus 4K - Video Preset: Slow
Frames Per Second, More Is Better
a
b
c
5.54
5.67
5.67
1.2758
2.5516
3.8274
5.1032
6.379
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt
Kvazaar 2.2
Video Input: Bosphorus 4K - Video Preset: Medium
Frames Per Second, More Is Better
a
b
c
5.46
5.56
5.52
1.251
2.502
3.753
5.004
6.255
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt
Kvazaar 2.2
Video Input: Bosphorus 1080p - Video Preset: Slow
Frames Per Second, More Is Better
a
b
c
31.33
31.90
31.64
7
14
21
28
35
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

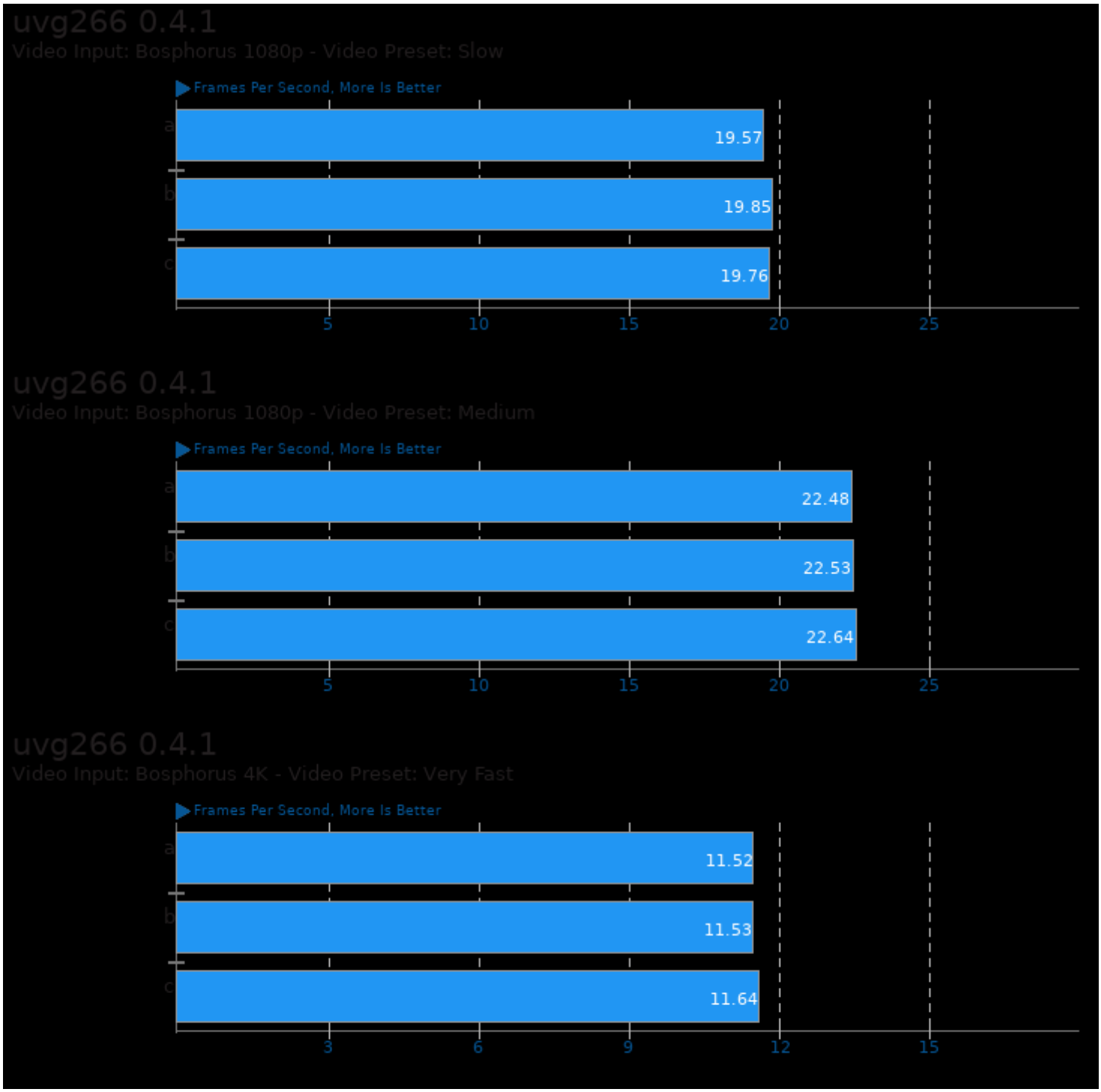

Kvazaar 2.2
Video Input: Bosphorus 1080p - Video Preset: Medium
Frames Per Second, More Is Better
a
33.10
b
33.72
c
34.47
8
16
24
32
40
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt
Kvazaar 2.2
Video Input: Bosphorus 4K - Video Preset: Very Fast
Frames Per Second, More Is Better
a
14.50
b
14.58
c
14.50
4
8
12
16
20
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt
Kvazaar 2.2
Video Input: Bosphorus 4K - Video Preset: Super Fast
Frames Per Second, More Is Better
a
18.37
b
18.37
c
17.62
5
10
15
20
25
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt


Kvazaar 2.2
Video Input: Bosphorus 4K - Video Preset: Ultra Fast
Frames Per Second, More Is Better
a
b
c
26.79
26.74
26.81
6
12
18
24
30
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt
Kvazaar 2.2
Video Input: Bosphorus 1080p - Video Preset: Very Fast
Frames Per Second, More Is Better
a
b
c
74.53
74.18
74.23
20
40
60
80
100
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt
Kvazaar 2.2
Video Input: Bosphorus 1080p - Video Preset: Super Fast
Frames Per Second, More Is Better
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40
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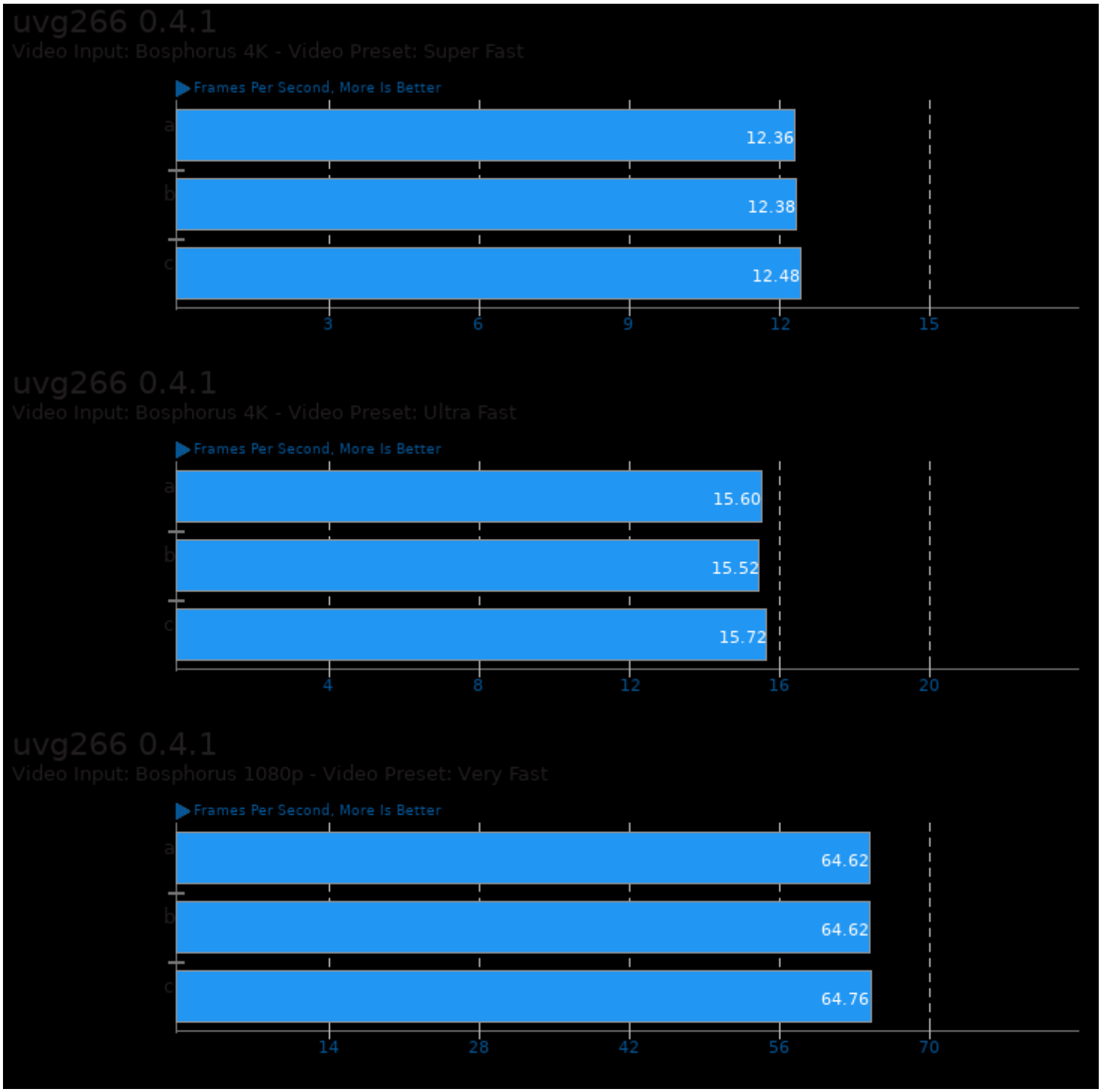
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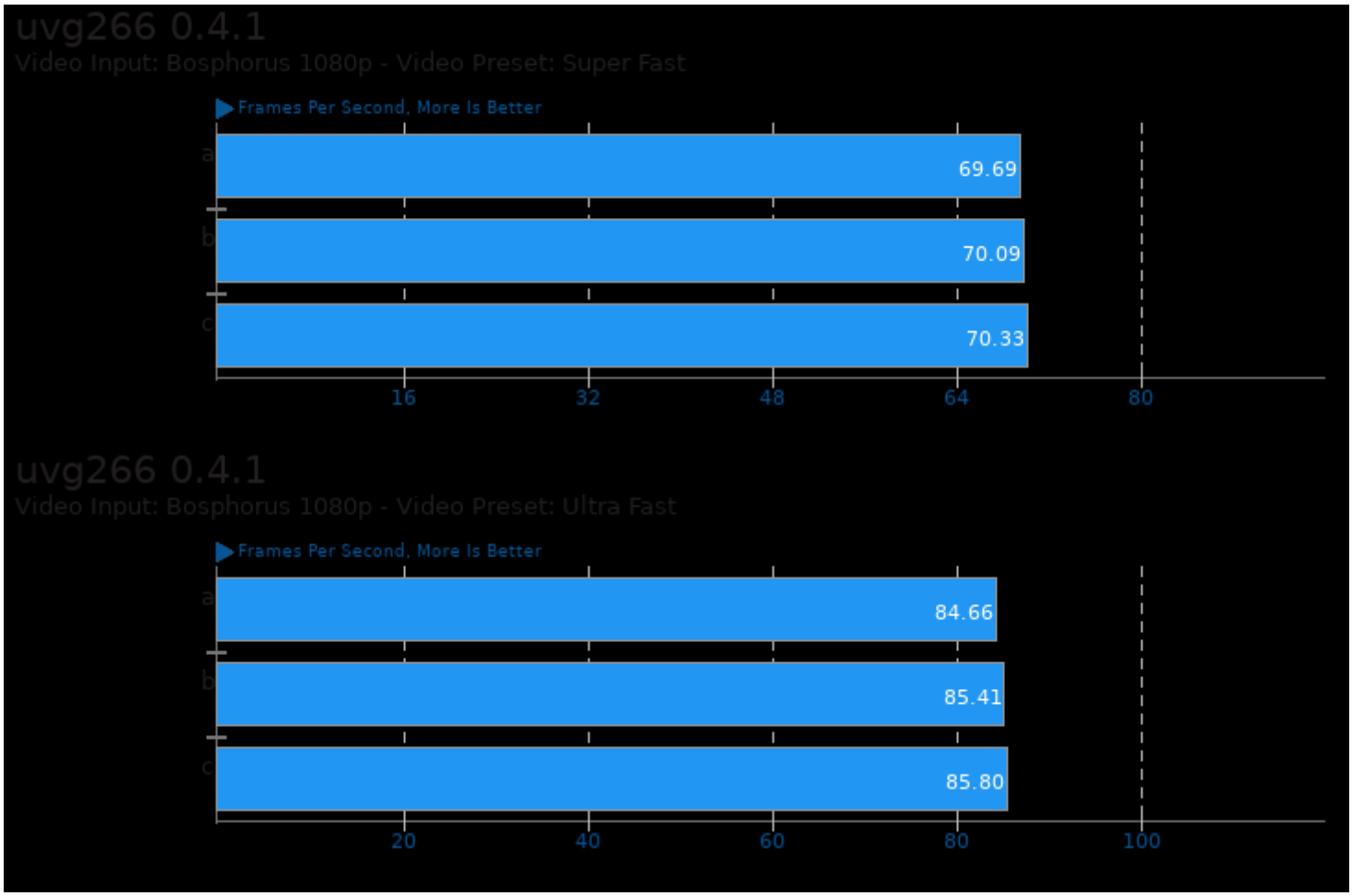
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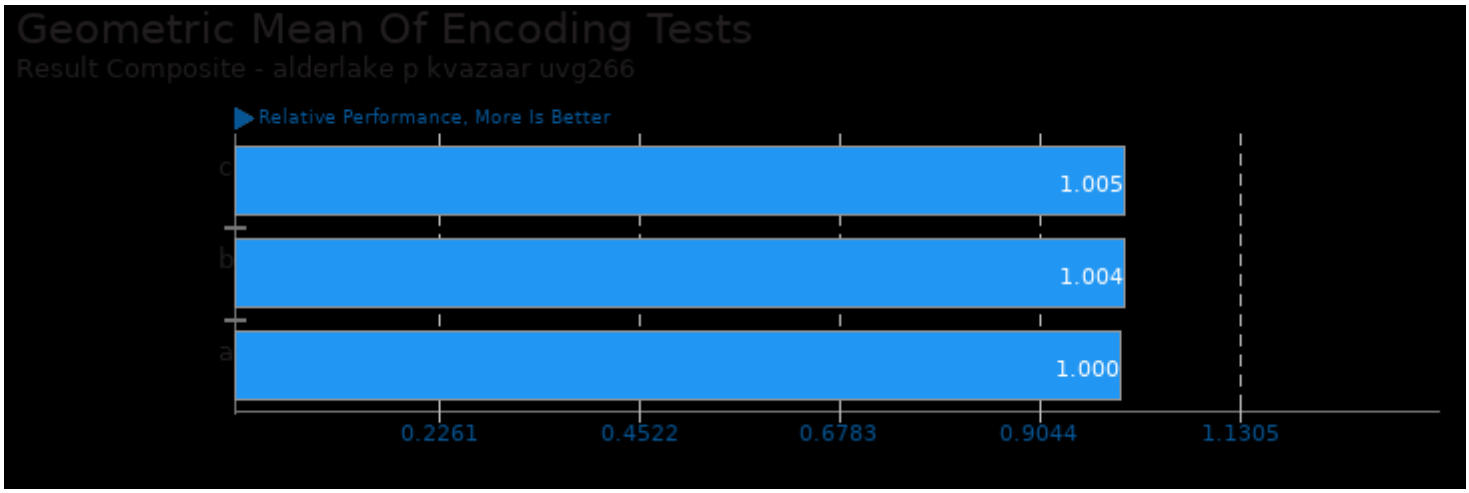


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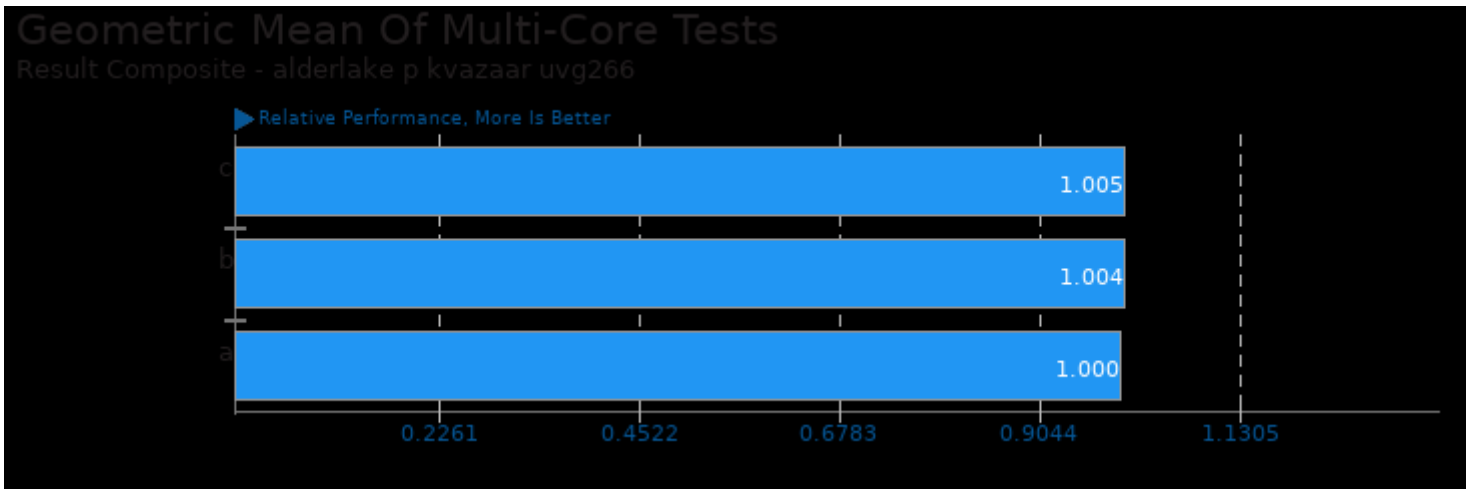
These geometric means are based upon test groupings / test suites for this result file.



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

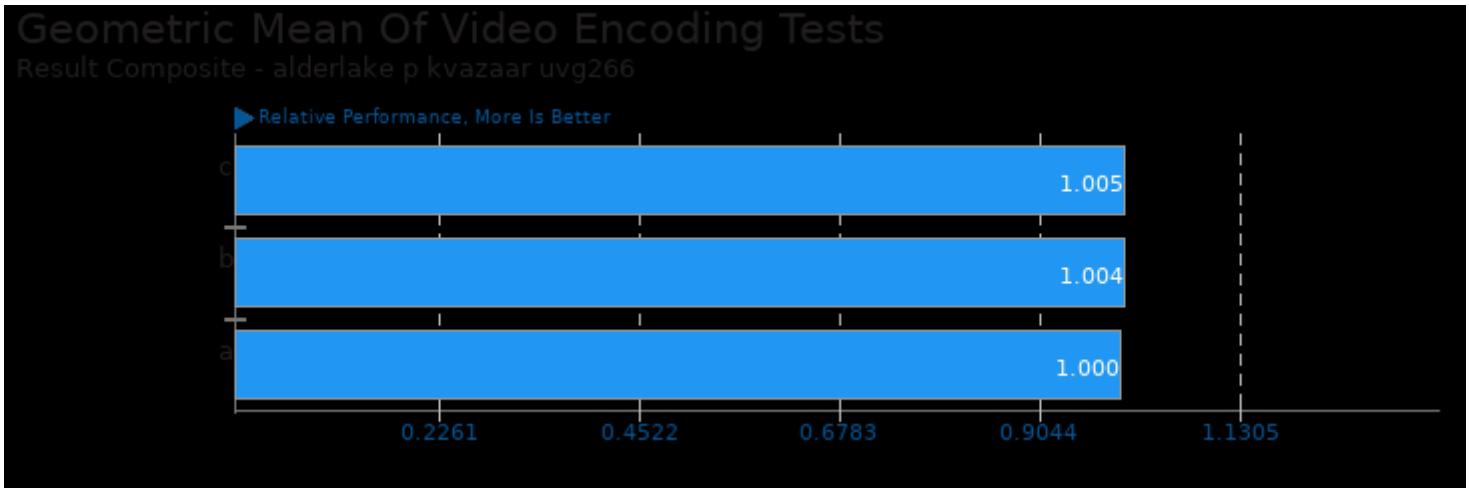


Geometric mean based upon tests: pts/kvazaar and pts/uvg266



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 06:06.