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Intel Core i9-13900K testing with a ASUS PRIME Z790-P WIFI (0602 BIOS) and Intel Arc A750 DG2 8GB on Ubuntu 22.10 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 (d). b was 0.998x the speed of a, c was 0.999x the speed of b, d 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: Very Fast) at 1.037x
Kvazaar (Video Input: Bosphorus 4K - Video Preset: Super Fast) at 1.031x
uvg266 (Video Input: Bosphorus 4K - Video Preset: Ultra Fast) at 1.025x
uvg266 (Video Input: Bosphorus 4K - Video Preset: Very Fast) at 1.022x
Kvazaar (Video Input: Bosphorus 1080p - Video Preset: Medium) at 1.008x
uvg266 (Video Input: Bosphorus 1080p - Video Preset: Medium) at 1.008x
Kvazaar (Video Input: Bosphorus 1080p - Video Preset: Ultra Fast) at 1.008x
uvg266 (Video Input: Bosphorus 1080p - Video Preset: Slow) at 1.007x
uvg266 (Video Input: Bosphorus 4K - Video Preset: Medium) at 1.007x

uvg266 (Video Input: Bosphorus 1080p - Video Preset: Very Fast) at 1.007x.

Test Systems:

a

b

c

d

Processor: Intel Core i9-13900K @ 5.50GHz (24 Cores / 32 Threads), Motherboard: ASUS PRIME Z790-P WIFI (0602 BIOS), Chipset: Intel Device 7a27, Memory: 32GB, Disk: 2048GB SOLIDIGM SSDPFKKW020X7 + 2000GB, Graphics: Intel Arc A750 DG2 8GB (2400MHz), Audio: Realtek ALC897, Monitor: ASUS VP28U, Network: Intel Device 7a70

OS: Ubuntu 22.10, Kernel: 6.2.0-rc2-phx (x86_64), Desktop: GNOME Shell 43.1, Display Server: X Server 1.21.1.4 + Wayland, OpenGL: 4.6 Mesa 23.0.0-devel (git-fc0e23b 2023-01-02 kinetic-oibaf-ppa), OpenCL: OpenCL 3.0, Vulkan: 1.3.238, Compiler: GCC 12.2.0, File-System: ext4, Screen Resolution: 3840x2160

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 performance (EPP: performance) - CPU Microcode: 0x10e - 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	d
Kvazaar - Bosphorus 4K - Very Fast (FPS)	42.45	42.81	**43.37**	**41.82**
Normalized	97.88%	98.71%	100%	96.43%
Standard Deviation	2.3%	1.2%	1.9%	1.4%
Kvazaar - Bosphorus 4K - Super Fast (FPS)	54.75	54.09	**53.80**	**55.48**
Normalized	98.68%	97.49%	96.97%	100%
Standard Deviation	1.4%	0.6%	0.4%	0.9%
uvg266 - Bosphorus 4K - Ultra Fast (FPS)	**50.55**	50.42	49.88	**49.32**
Normalized	100%	99.74%	98.67%	97.57%
Standard Deviation	2.1%	0.5%	1.9%	1.6%

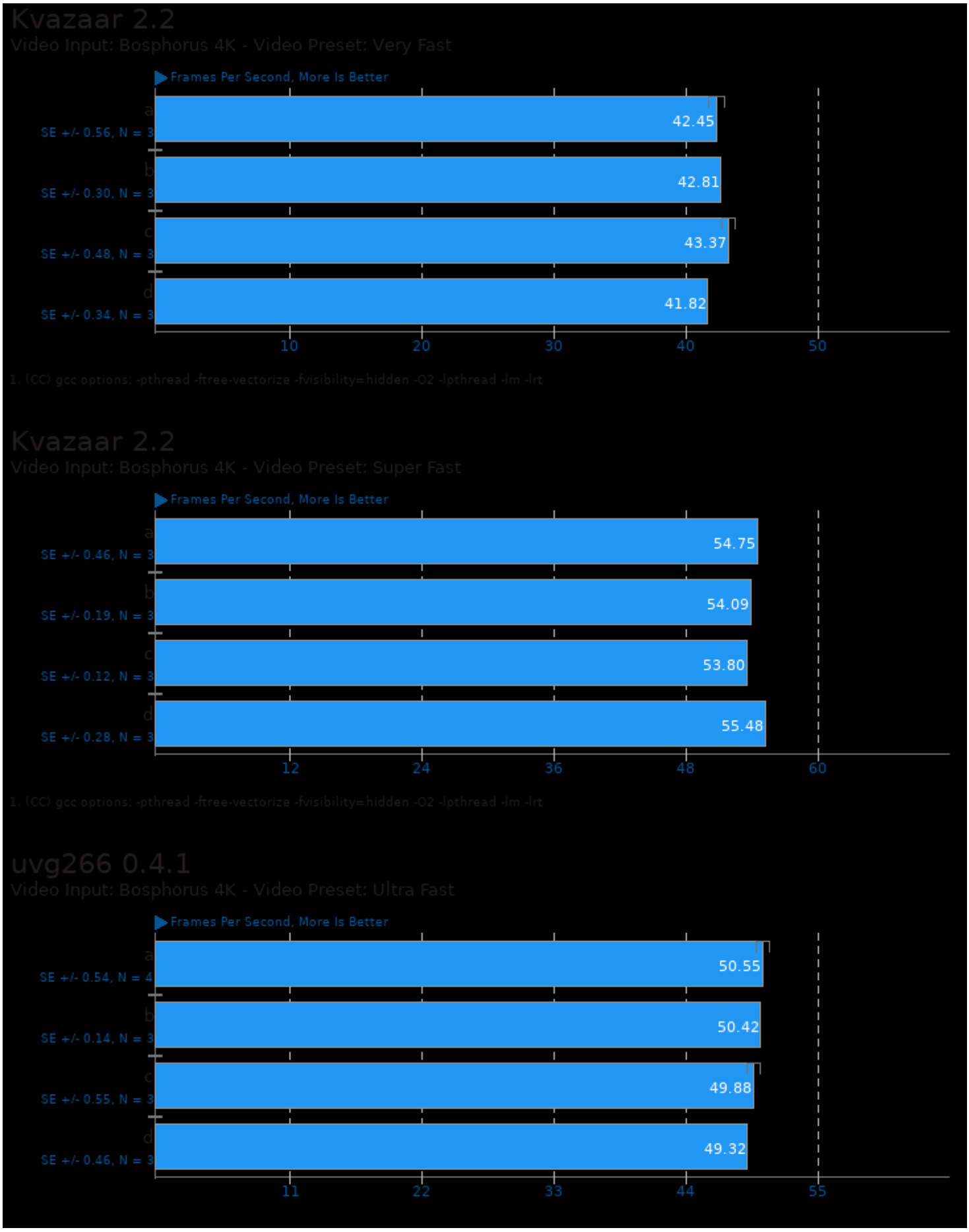
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uvg266 - Bosphorus 4K - Very Fast (FPS)	**38.64**	38.47	**37.82**	38.13
Normalized	100%	99.56%	97.88%	98.68%
Standard Deviation	0.1%	1.4%	0.2%	1.6%
Kvazaar - Bosphorus 1080p - Medium (FPS)	**75.91**	75.64	**75.29**	75.42
Normalized	100%	99.64%	99.18%	99.35%
Standard Deviation	0.2%	0.4%	0.6%	0.2%
uvg266 - Bosphorus 1080p - Medium (FPS)	**54.73**	55.02	**55.18**	54.93
Normalized	99.18%	99.71%	100%	99.55%
Standard Deviation	0.4%	0.3%	0.3%	0.3%
Kvazaar - Bosphorus 1080p - Ultra Fast (FPS)	283.85	281.84	**283.91**	**281.73**
Normalized	99.98%	99.27%	100%	99.23%
Standard Deviation	0.8%	0.3%	0.6%	0.8%
uvg266 - Bosphorus 1080p - Slow	**48.77**	48.62	48.74	**48.41**
Normalized	100%	99.69%	99.94%	99.26%
Standard Deviation	0.5%	0.4%	1.6%	1.4%
uvg266 - Bosphorus 4K - Medium	13.81	**13.82**	**13.72**	13.80
Normalized	99.93%	100%	99.28%	99.86%
Standard Deviation	0.5%	0.5%	0.7%	0.7%
uvg266 - Bosphorus 1080p - Very Fast (FPS)	**152.20**	**151.15**	152.09	151.34
Normalized	100%	99.31%	99.93%	99.43%
Standard Deviation	0.2%	2.4%	0.3%	2.1%
uvg266 - Bosphorus 4K - Super Fast (FPS)	41.16	**41.23**	**40.95**	41.11
Normalized	99.83%	100%	99.32%	99.71%
Standard Deviation	1.3%	1.6%	0.2%	0.9%
Kvazaar - Bosphorus 1080p - Slow (FPS)	**72.49**	**72.01**	72.24	72.18
Normalized	100%	99.34%	99.66%	99.57%
Standard Deviation	0.2%	0.6%	0.3%	0.1%
Kvazaar - Bosphorus 1080p - Super Fast (FPS)	**217.49**	216.93	**216.16**	216.59
Normalized	100%	99.74%	99.39%	99.59%
Standard Deviation	0.4%	0.6%	0.1%	0.2%
Kvazaar - Bosphorus 4K - Ultra Fast (FPS)	**75.70**	75.59	**75.25**	75.46
Normalized	100%	99.85%	99.41%	99.68%
Standard Deviation	2.5%	0.4%	0.1%	0.5%
uvg266 - Bosphorus 1080p - Ultra Fast (FPS)	**194.22**	**193.28**	193.89	193.97
Normalized	100%	99.52%	99.83%	99.87%
Standard Deviation	0.5%	0.2%	0.3%	0.5%
Kvazaar - Bosphorus 1080p - Very Fast (FPS)	164.82	**165.14**	164.57	**164.36**
Normalized	99.81%	100%	99.65%	99.53%
Standard Deviation	0.3%	0.8%	0.5%	0.4%
Kvazaar - Bosphorus 4K - Medium	19.07	19.07	**19.09**	**19.00**
Normalized	99.9%	99.9%	100%	99.53%
Standard Deviation	0.2%	0.1%	0.1%	0.6%

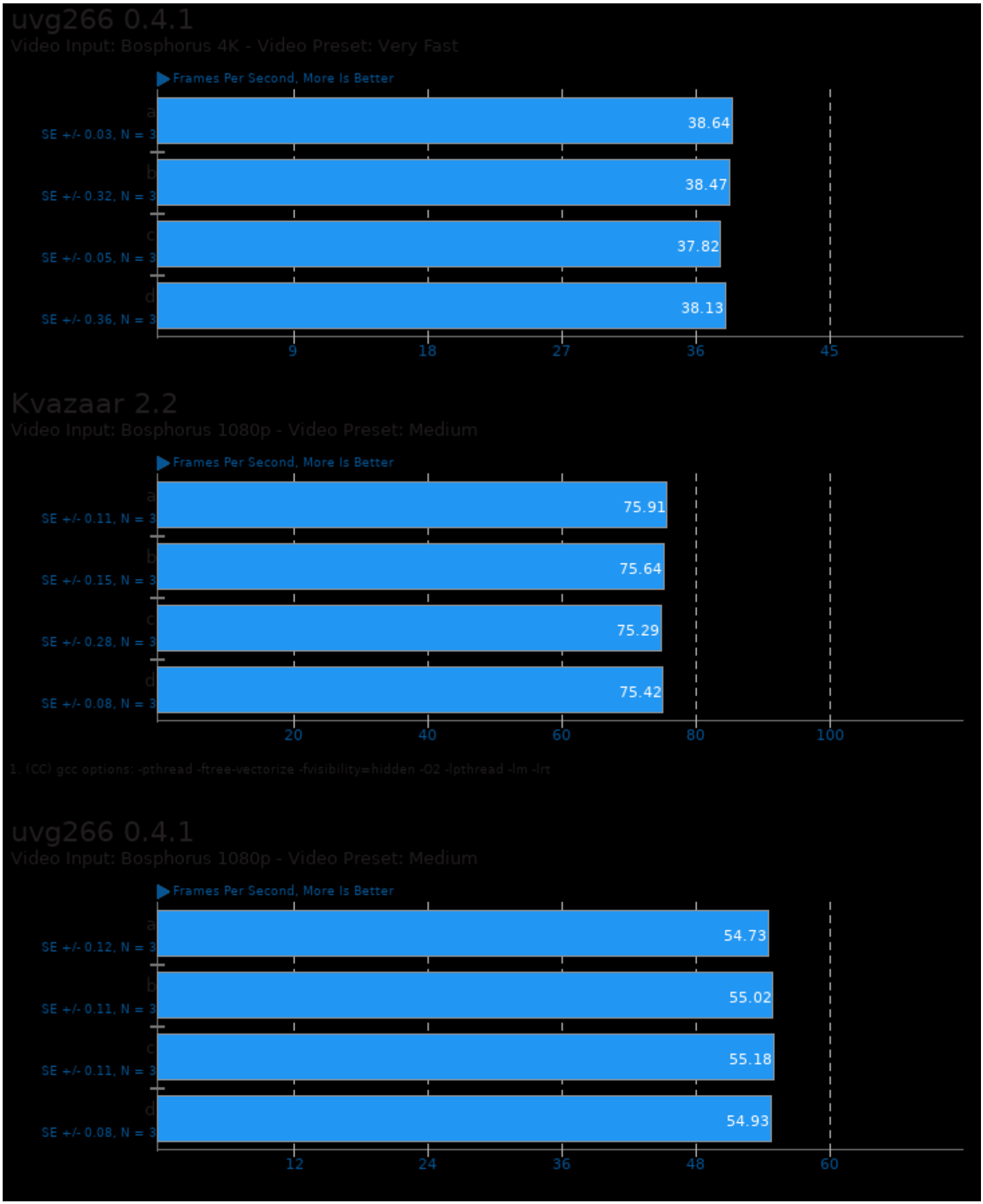
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uvg266 - Bosphorus 1080p - Super Fast (FPS)	167.27	**167.19**	167.62	**167.97**
Normalized	99.58%	99.54%	99.79%	100%
Standard Deviation	0.1%	0.2%	0.4%	0.1%
Kvazaar - Bosphorus 4K - Slow (FPS)	**18.75**	18.73	**18.70**	**18.70**
Normalized	100%	99.89%	99.73%	99.73%
Standard Deviation	2.1%	1.3%	2%	1.8%
uvg266 - Bosphorus 4K - Slow (FPS)	12.29	12.28	**12.27**	**12.30**
Normalized	99.92%	99.84%	99.76%	100%
Standard Deviation	0.9%	1.1%	0.5%	1%

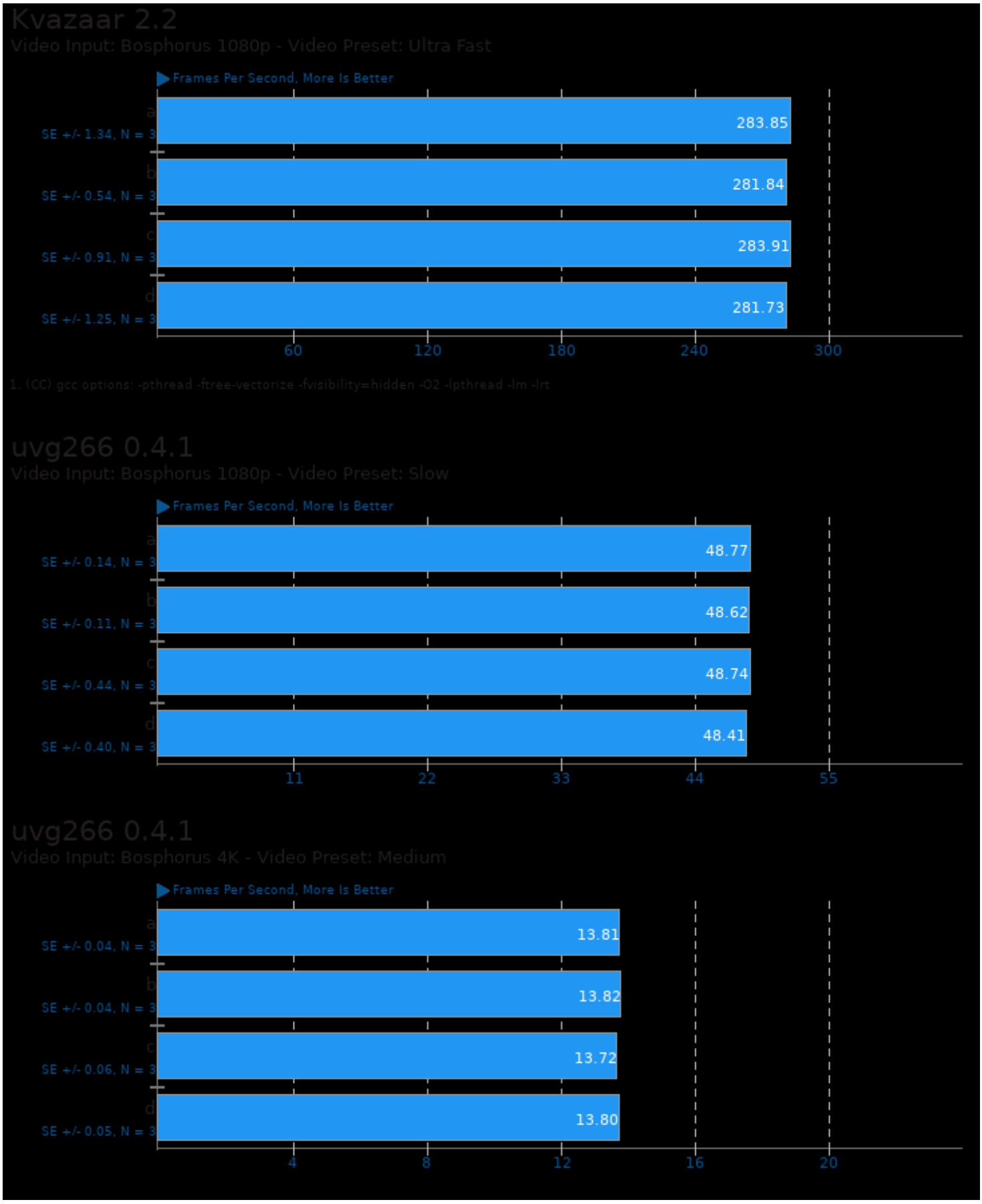
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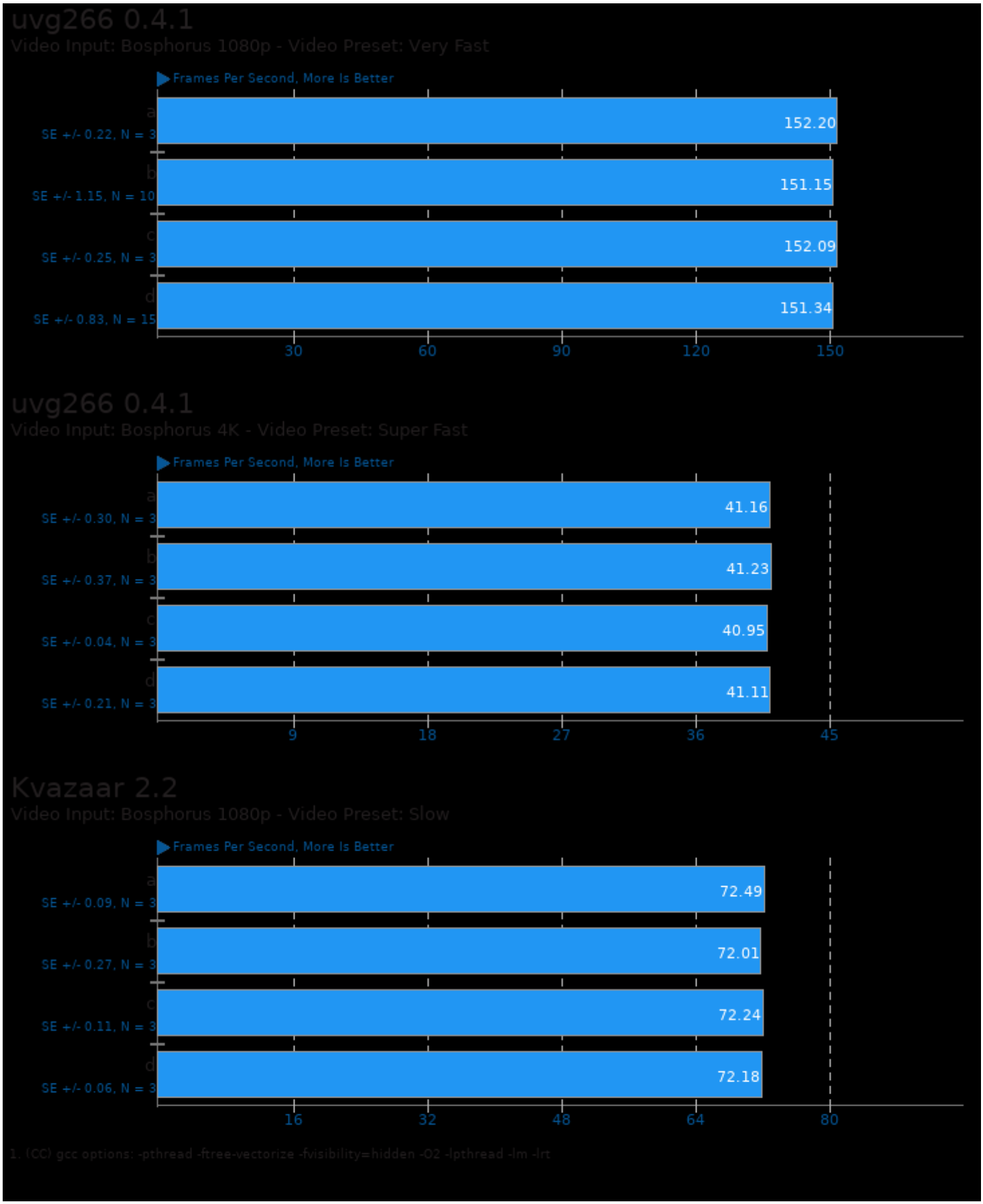
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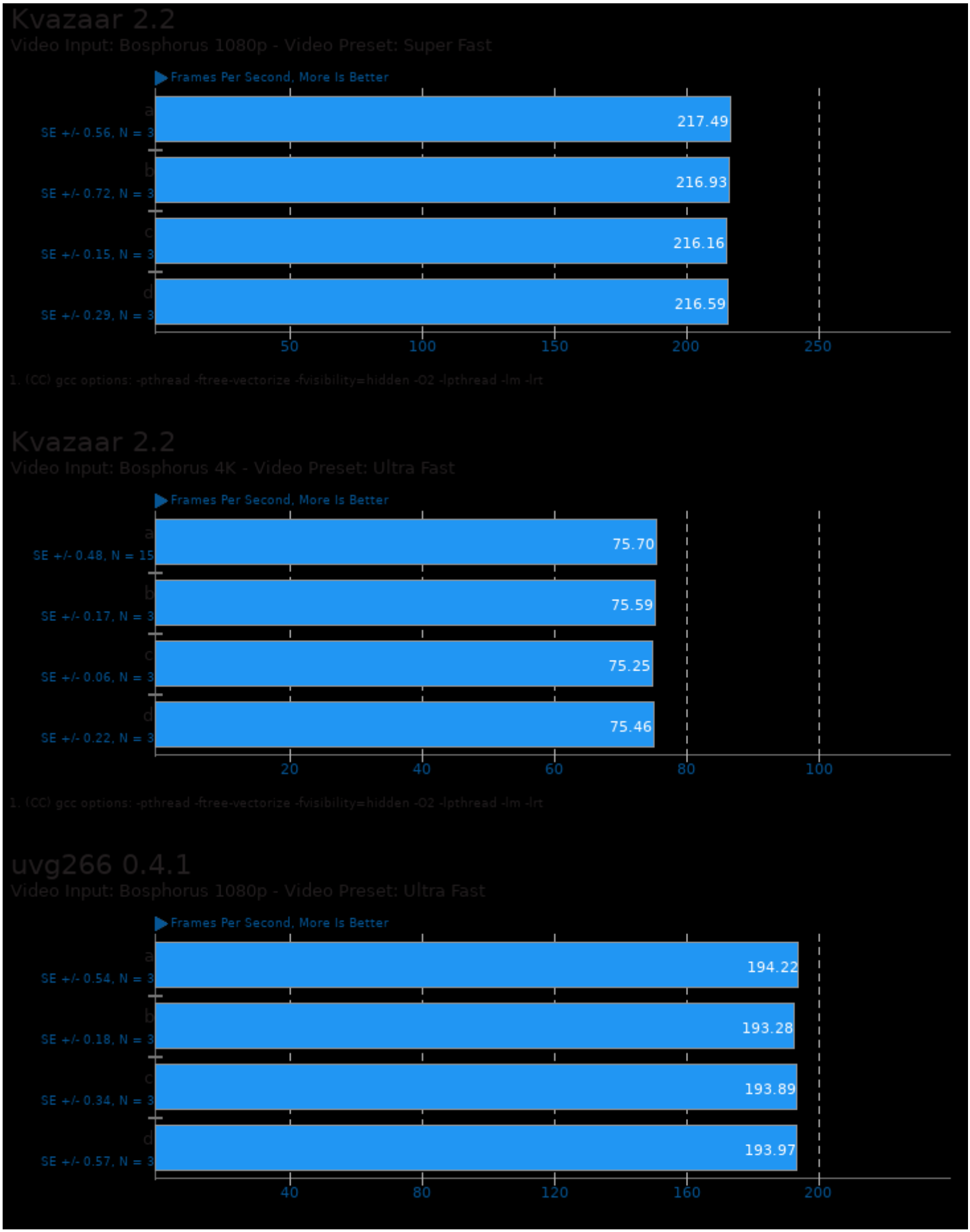
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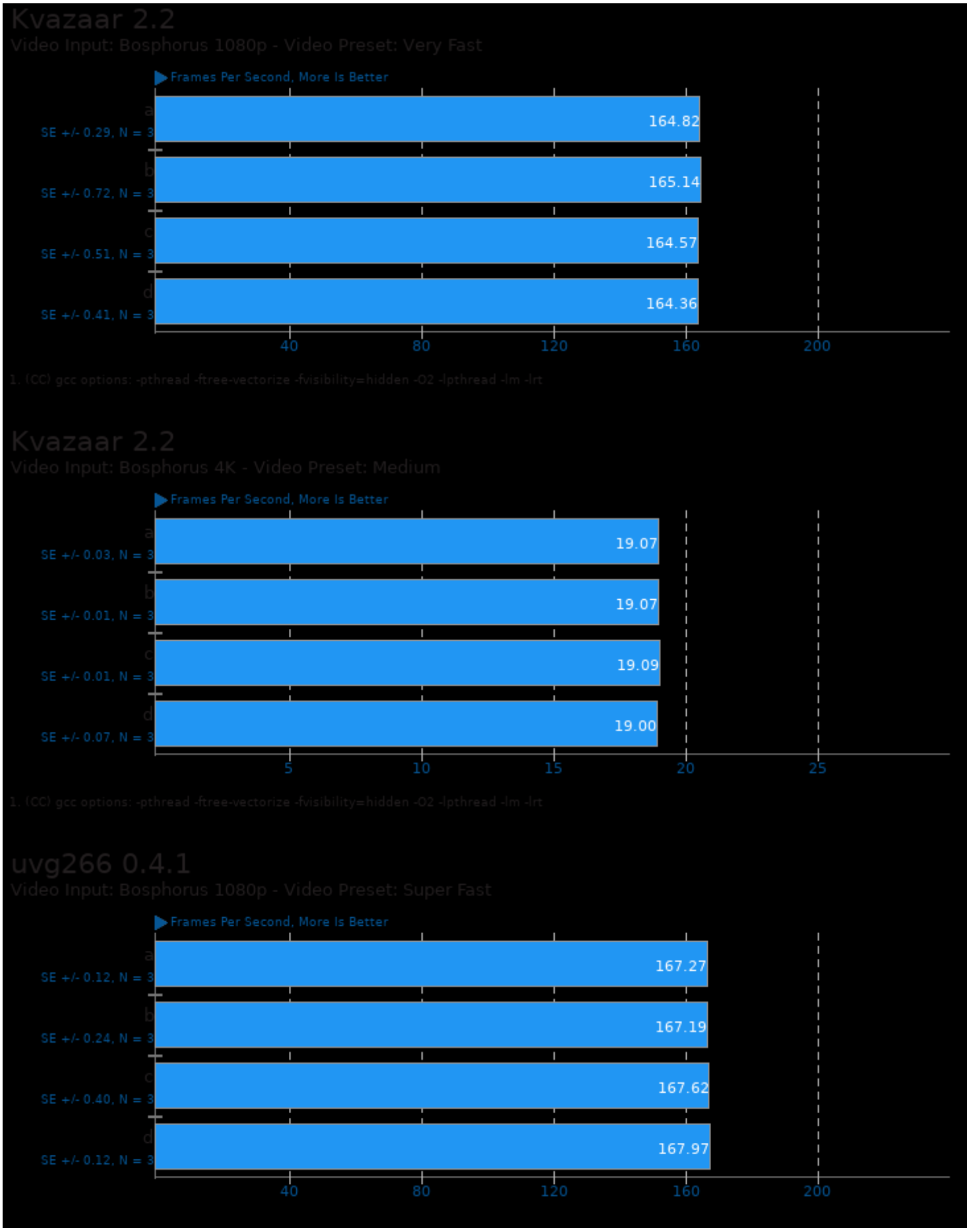
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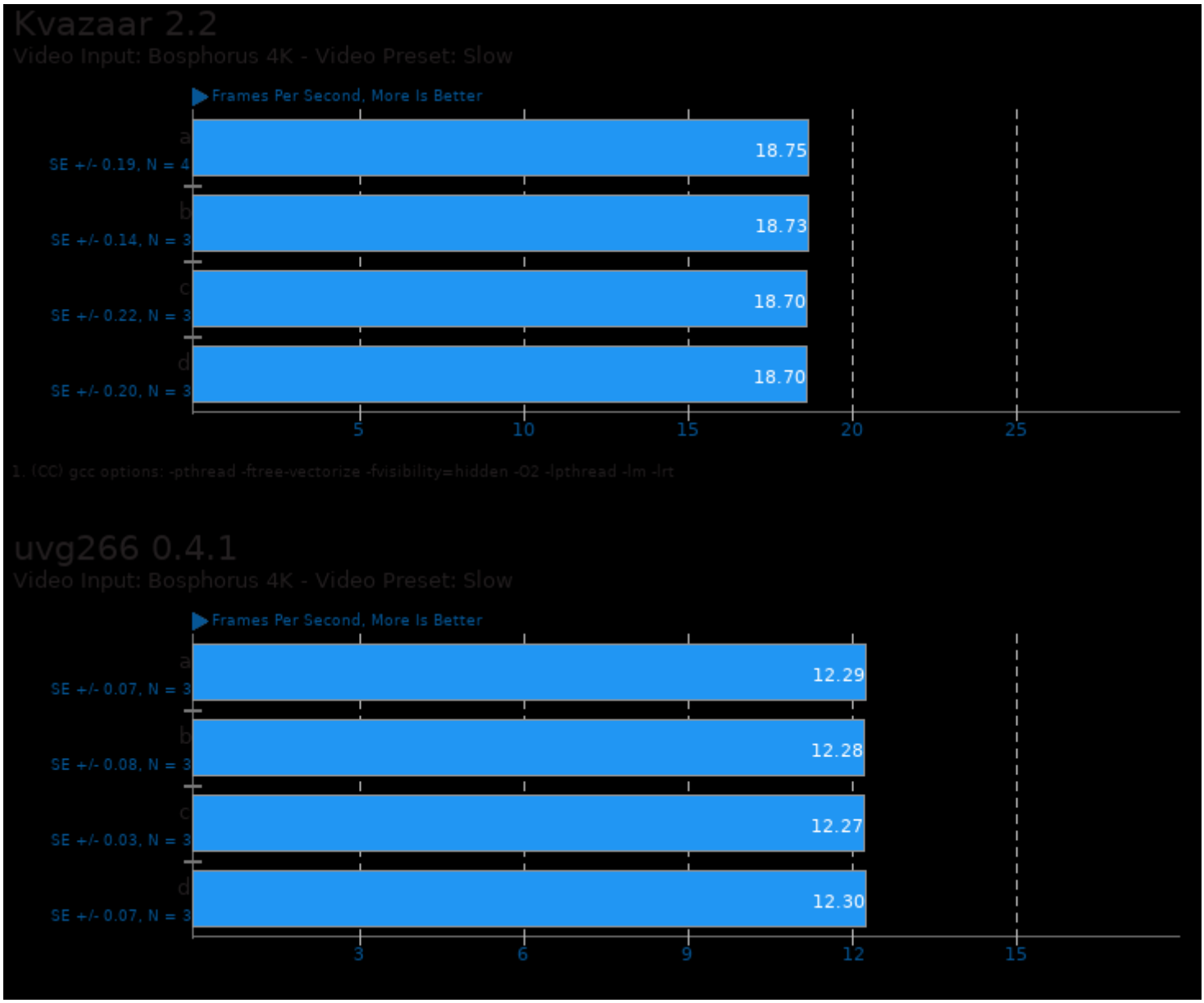
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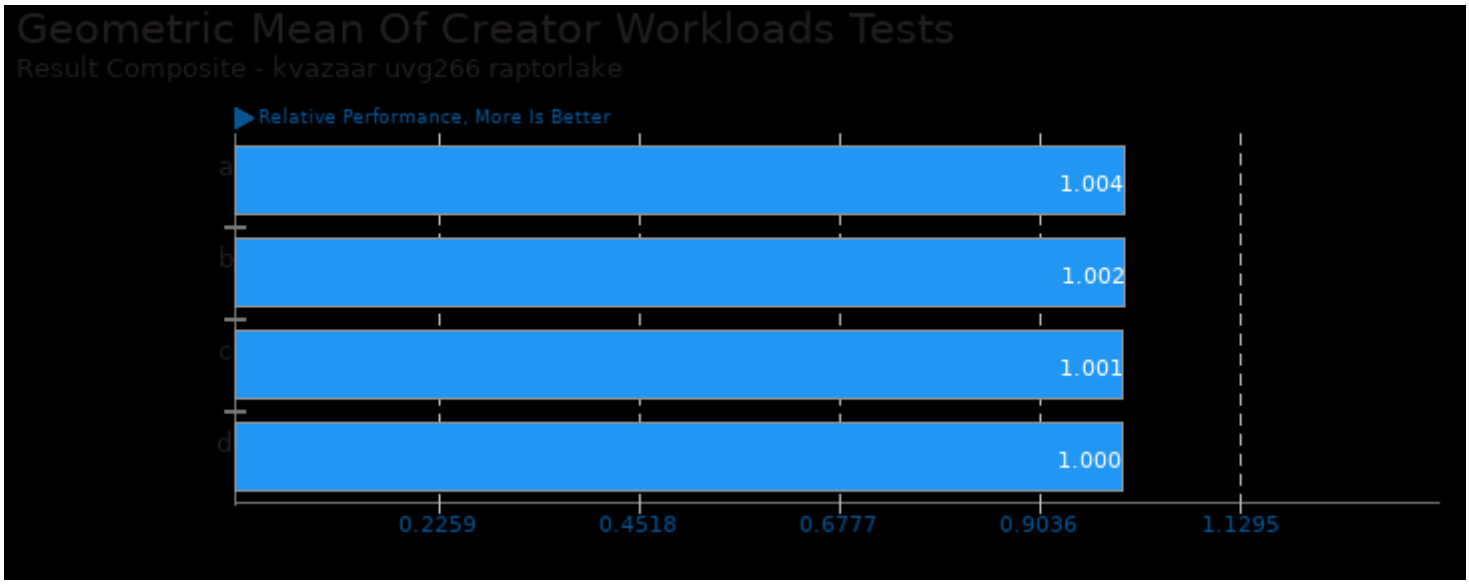


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These geometric means are based upon test groupings / test suites for this result file.

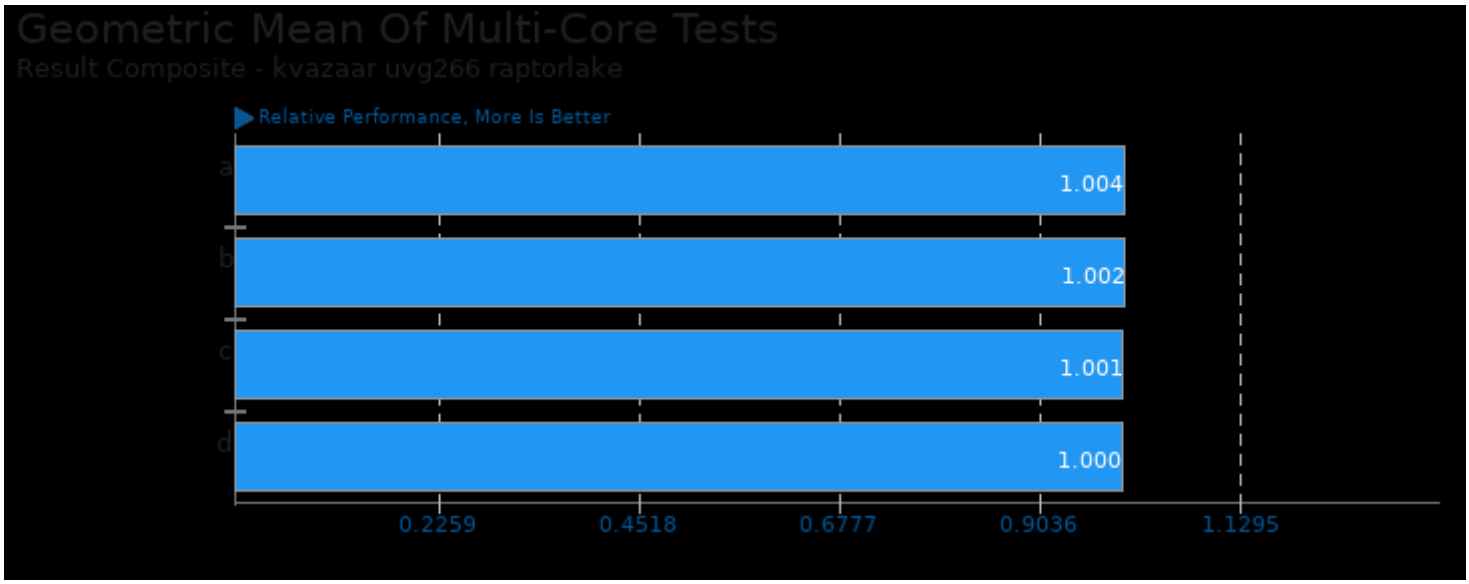


Geometric mean based upon tests: pts/kvazaar and pts/uvg266

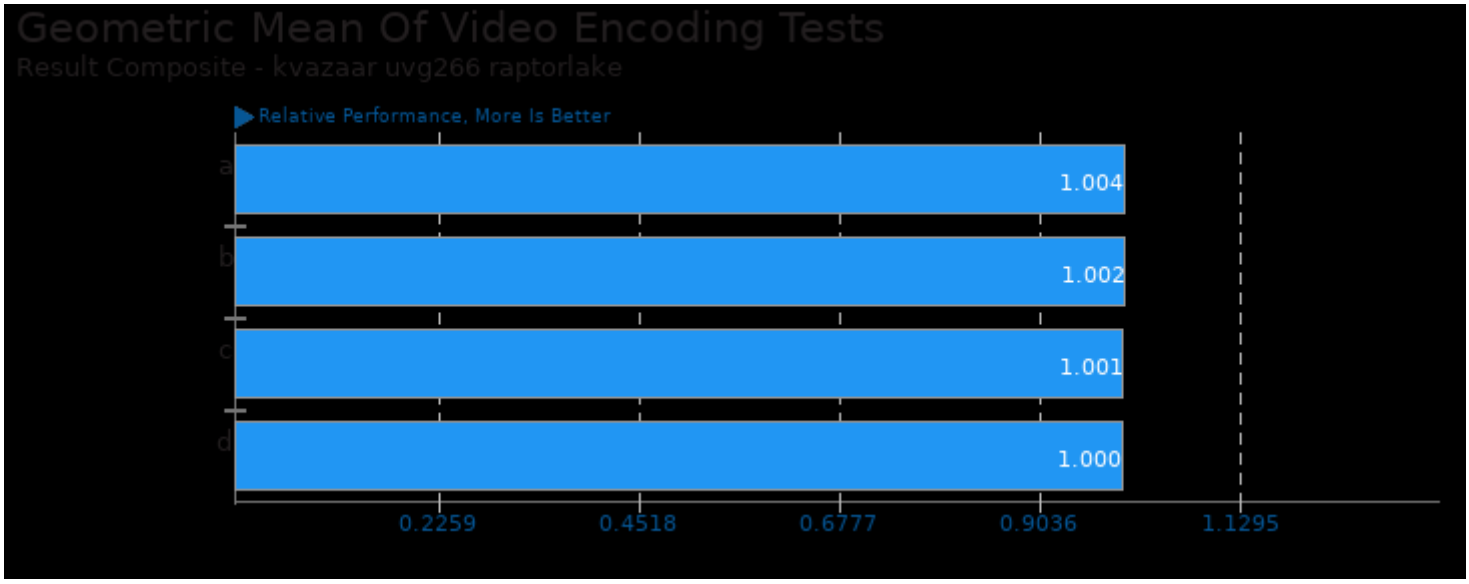


Geometric mean based upon tests: pts/kvazaar and pts/uvg266

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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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