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Intel Core i9-10885H testing with a HP 8736 (S91 Ver. 01.04.01 BIOS) and NVIDIA Quadro RTX 5000 with Max-Q Design 16GB on Ubuntu 21.04 via the Phoronix Test Suite.

Automated Executive Summary

2 had the most wins, coming in first place for 66% of the tests.

Based on the geometric mean of all complete results, the fastest (2) was 1.009x the speed of the slowest (1).

Test Systems:

1

2

Processor: Intel Core i9-10885H @ 5.30GHz (8 Cores / 16 Threads), Motherboard: HP 8736 (S91 Ver. 01.04.01 BIOS), Chipset: Intel Comet Lake PCH, Memory: 32GB, Disk: 2048GB Kioxia KXG50PNV2T04, Graphics: NVIDIA Quadro RTX

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5000 with Max-Q Design 16GB, Audio: Intel Comet Lake PCH cAVS, Network: Intel Comet Lake PCH CNVi WiFi

OS: Ubuntu 21.04, Kernel: 5.10.0-14-generic (x86_64), Desktop: GNOME Shell 3.38.3, Display Server: X Server 1.20.9, Display Driver: NVIDIA 460.39, OpenGL: 4.6.0, OpenCL: OpenCL 1.2 CUDA 11.2.136, Vulkan: 1.2.145, Compiler: GCC 10.2.1 20210206, File-System: ext4, Screen Resolution: 1920x1080

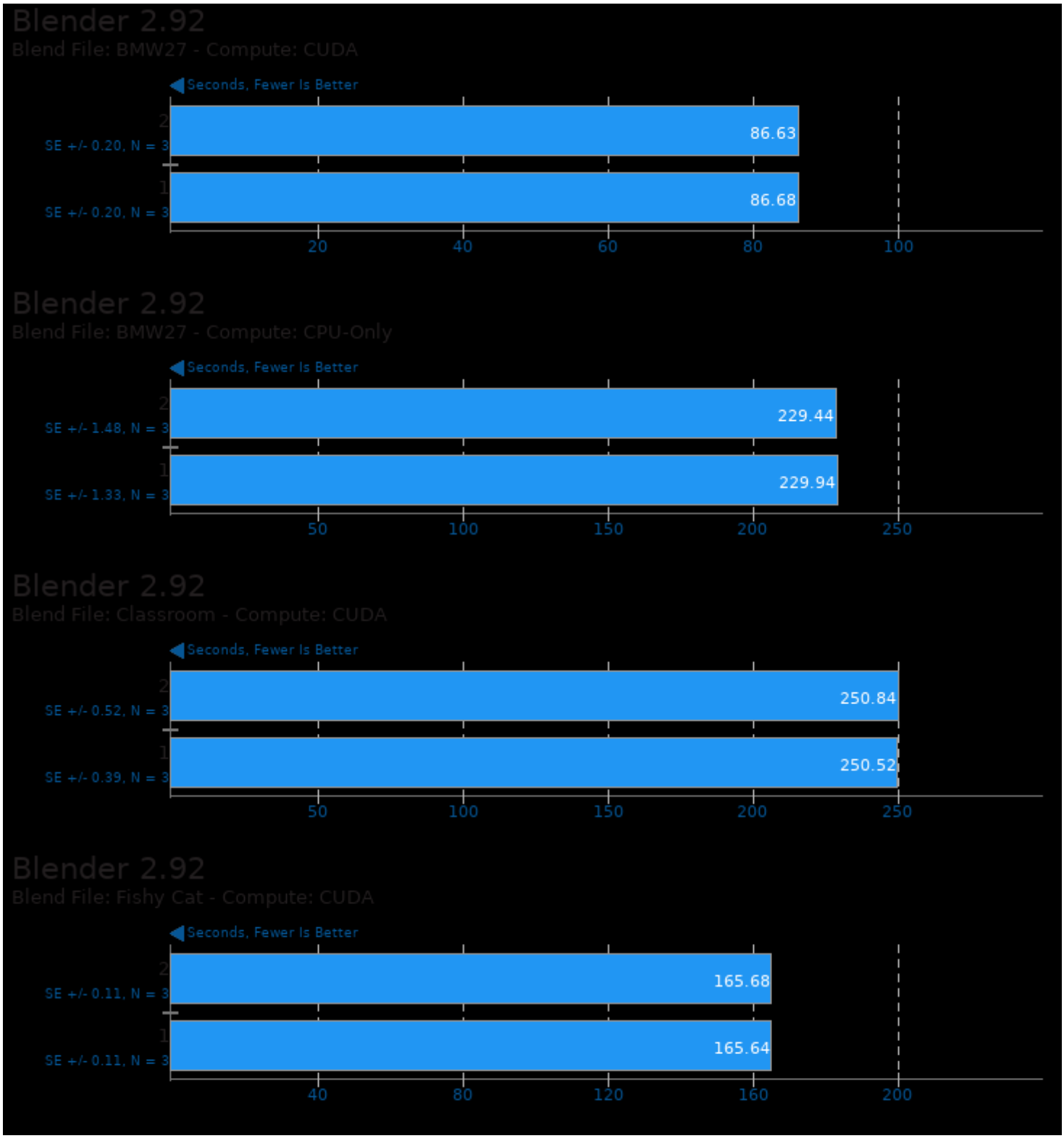
Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xe2 - Thermald 2.4.2
OpenCL Notes: GPU Compute Cores: 3072
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + 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

	1	2
Blender - BMW27 - CUDA (sec)	**86.68**	**86.63**
Normalized	99.94%	100%
Standard Deviation	0.4%	0.4%
Blender - BMW27 - CPU-Only (sec)	**229.94**	**229.44**
Normalized	99.78%	100%
Standard Deviation	1%	1.1%
Blender - Classroom - CUDA (sec)	**250.52**	**250.84**
Normalized	100%	99.87%
Standard Deviation	0.3%	0.4%
Blender - Fishy Cat - CUDA (sec)	**165.64**	**165.68**
Normalized	100%	99.98%
Standard Deviation	0.1%	0.1%
Blender - Barbershop - CUDA (sec)	**783.17**	**784.22**
Normalized	100%	99.87%
Standard Deviation	0.4%	0.7%
Blender - BMW27 - NVIDIA OptiX (sec)	**42.71**	**39.18**
Normalized	91.73%	100%
Standard Deviation	32.5%	0.1%
Blender - Classroom - CPU-Only (sec)	**714.83**	**716.86**
Normalized	100%	99.72%
Standard Deviation	0.3%	0.4%
Blender - Fishy Cat - CPU-Only (sec)	**323.78**	**322.86**
Normalized	99.72%	100%
Standard Deviation	0.4%	0.2%
Blender - Barbershop - CPU-Only (sec)	**930.57**	**930.09**
Normalized	99.95%	100%
Standard Deviation	0.1%	0.1%
Blender - Classroom - NVIDIA OptiX (sec)	**124.58**	**124.05**
Normalized	99.57%	100%
Standard Deviation	0.7%	0.5%
Blender - Fishy Cat - NVIDIA OptiX (sec)	**73.32**	**69.11**
Normalized	94.26%	100%
Standard Deviation	18.5%	0.3%
Blender - Barbershop - NVIDIA OptiX (sec)	**1280**	**1275**
Normalized	99.57%	100%
Standard Deviation	0.5%	0.4%
Blender - Pabellon Barcelona - CUDA (sec)	**594.22**	**593.83**
Normalized	99.93%	100%

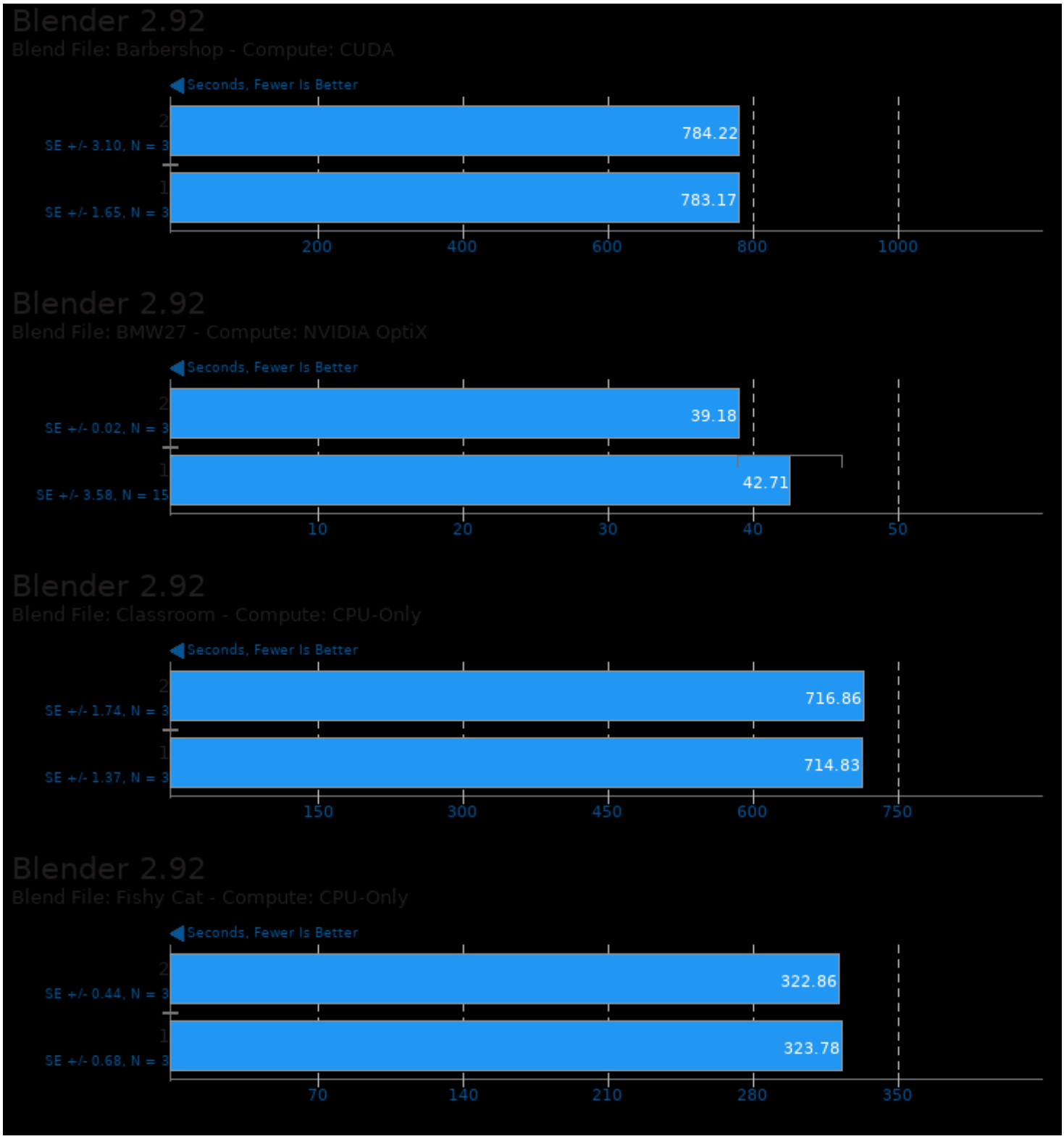
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Standard Deviation	0.1%	0%
Blender - Pabellon Barcelona - CPU-Only (sec)	**784.50**	**785.04**
Normalized	100%	99.93%
Standard Deviation	0.2%	0.1%
Blender - Pabellon Barcelona - NVIDIA OptiX (sec)	**205.80**	**205.67**
Normalized	99.94%	100%
Standard Deviation	0.1%	0.2%

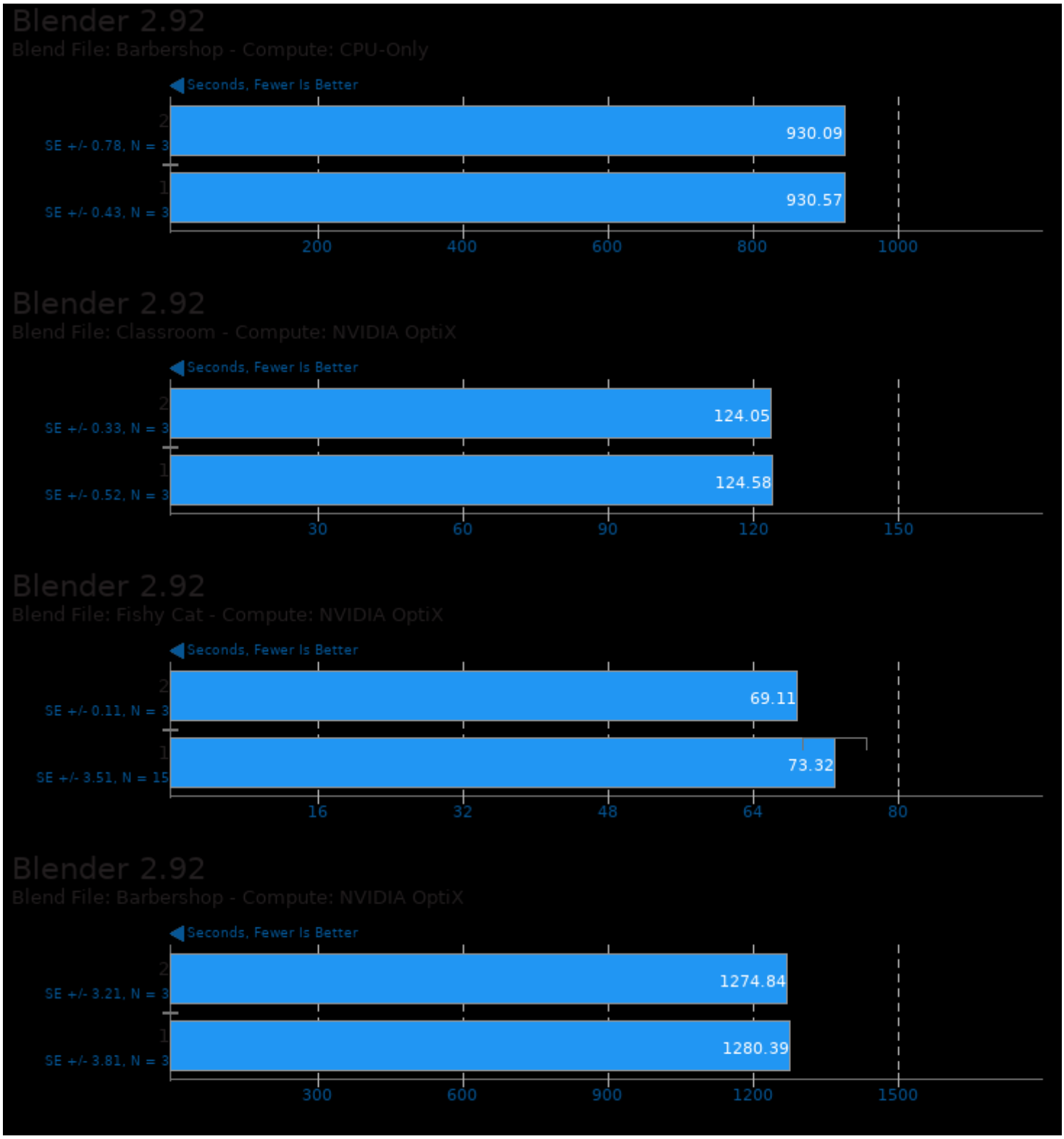
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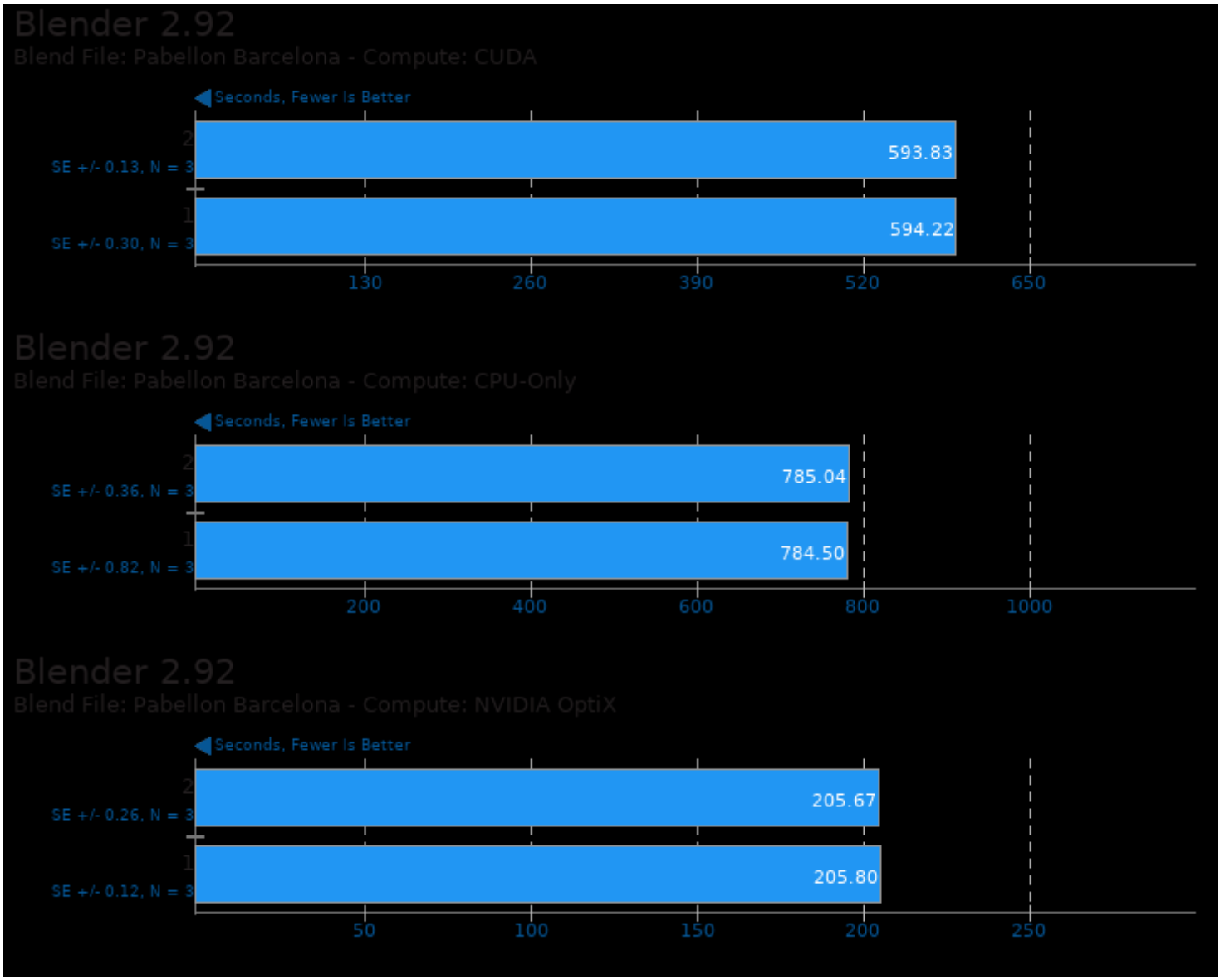
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