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hp zbook blender

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

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

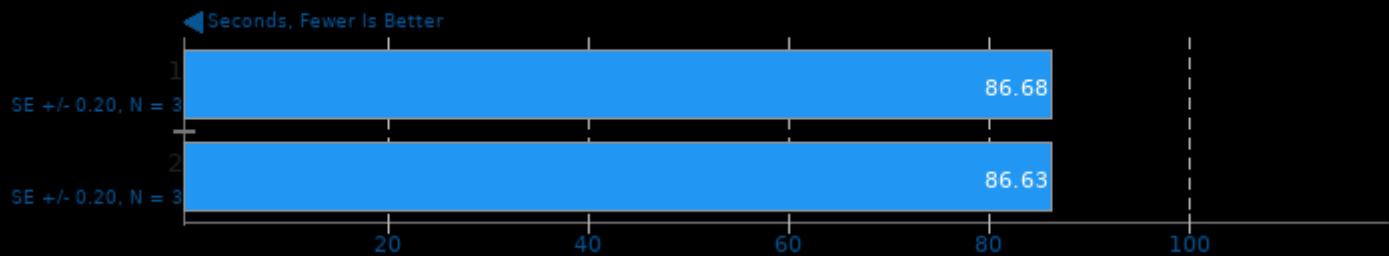
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation 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%

	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%

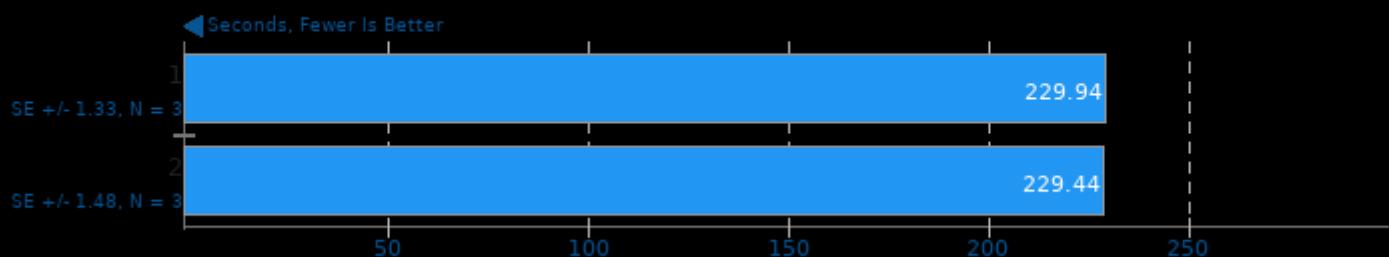
Blender 2.92

Blend File: BMW27 - Compute: CUDA



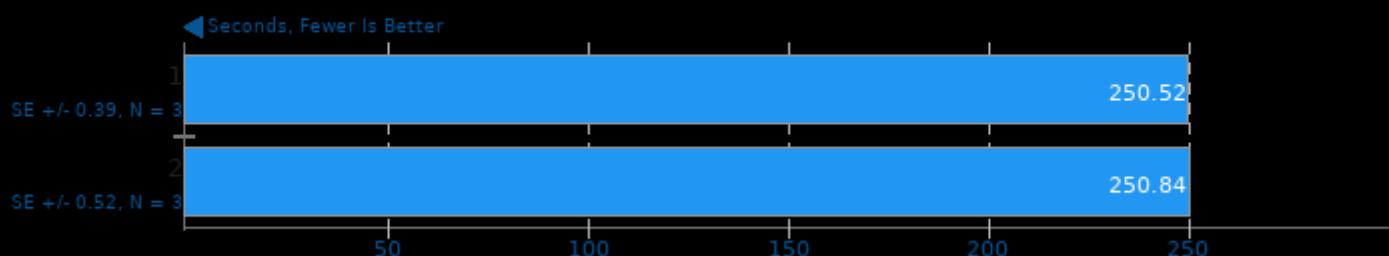
Blender 2.92

Blend File: BMW27 - Compute: CPU-Only



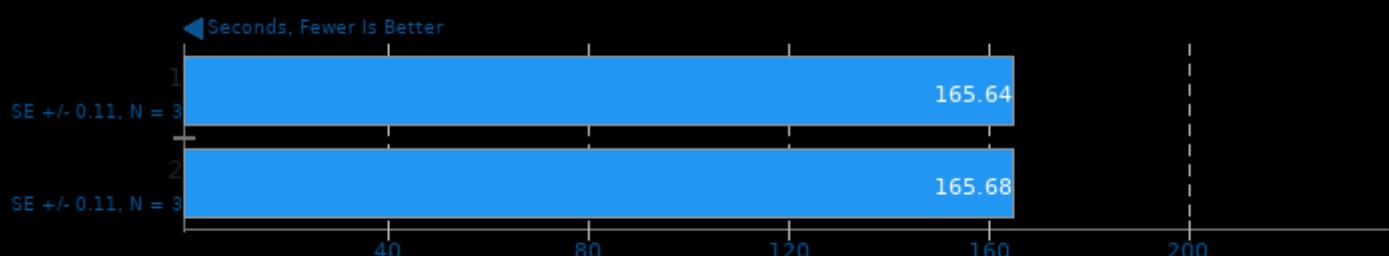
Blender 2.92

Blend File: Classroom - Compute: CUDA



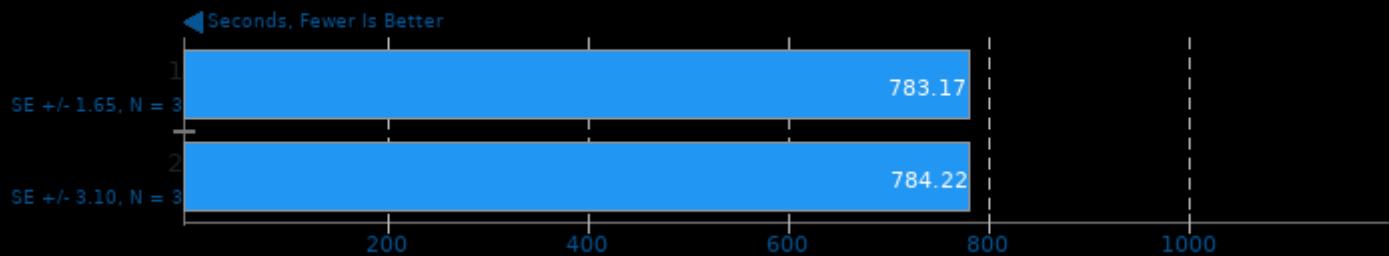
Blender 2.92

Blend File: Fishy Cat - Compute: CUDA



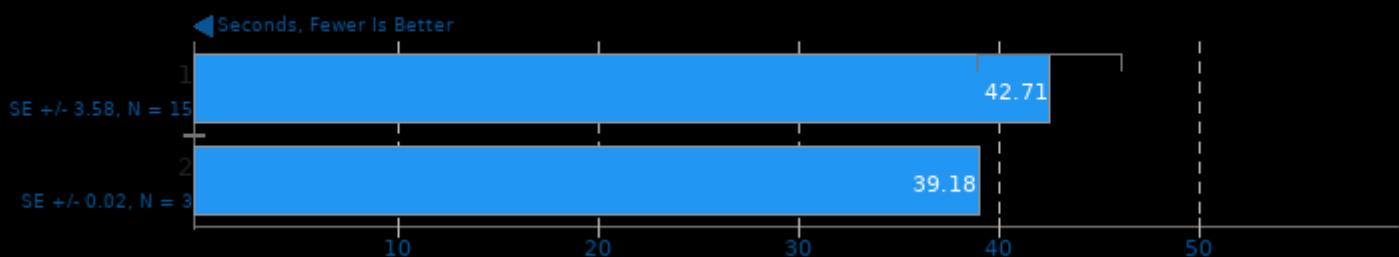
Blender 2.92

Blend File: Barbershop - Compute: CUDA



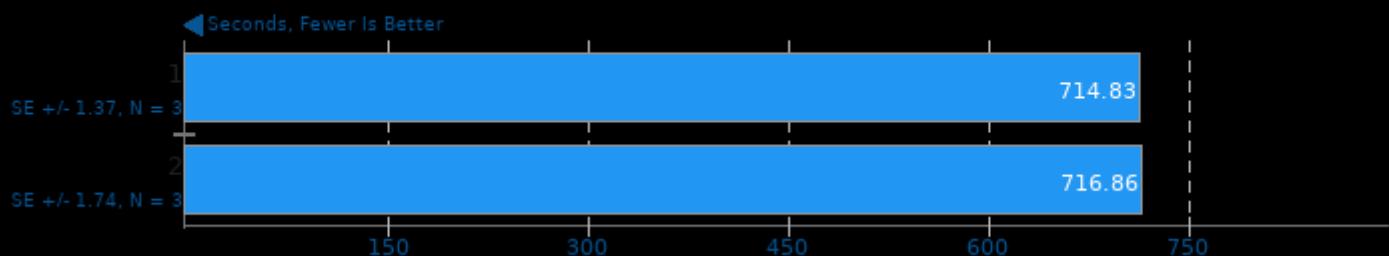
Blender 2.92

Blend File: BMW27 - Compute: NVIDIA OptiX



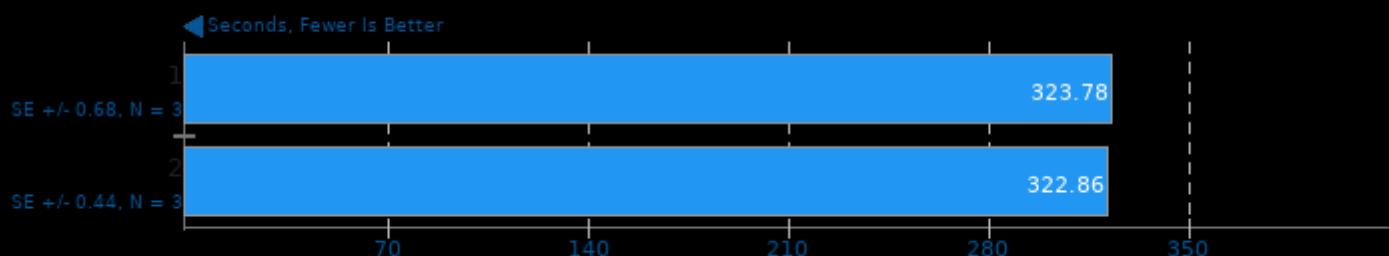
Blender 2.92

Blend File: Classroom - Compute: CPU-Only



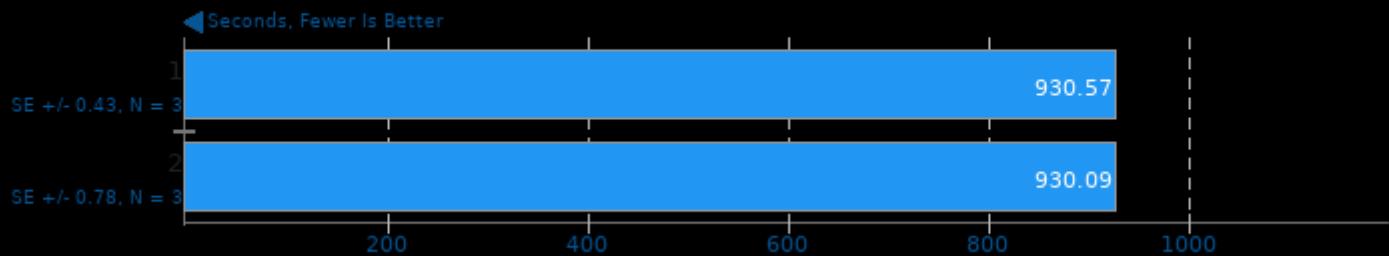
Blender 2.92

Blend File: Fishy Cat - Compute: CPU-Only



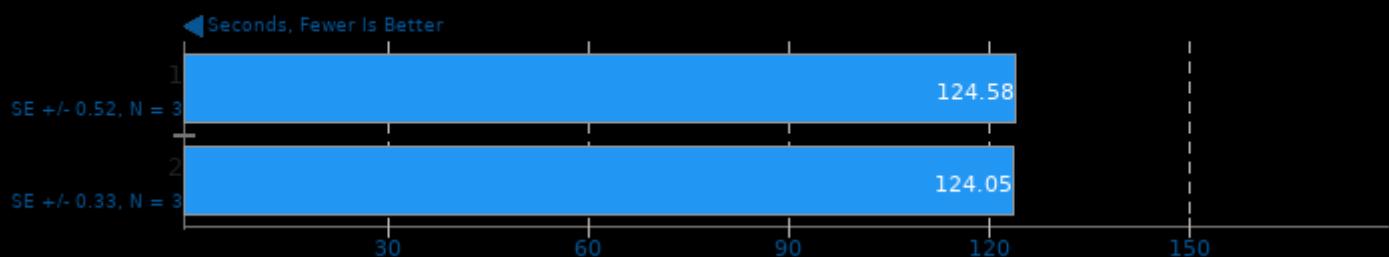
Blender 2.92

Blend File: Barbershop - Compute: CPU-Only



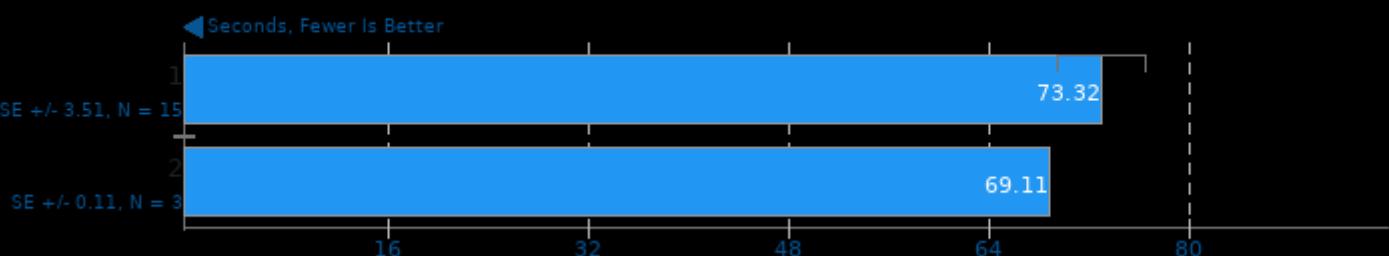
Blender 2.92

Blend File: Classroom - Compute: NVIDIA OptiX



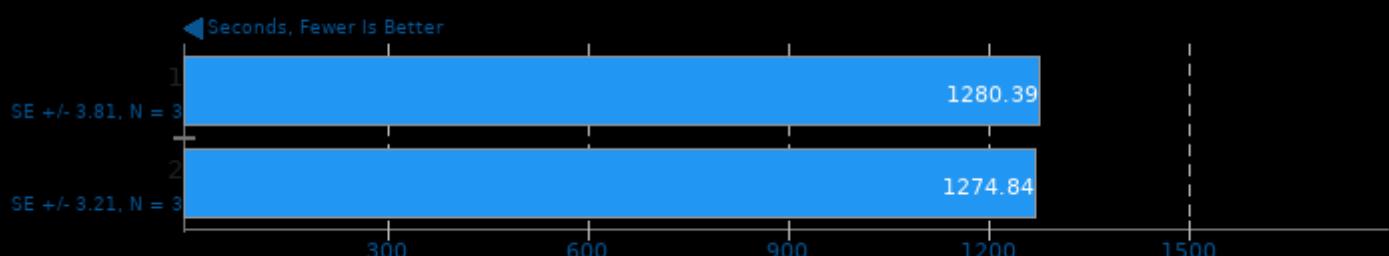
Blender 2.92

Blend File: Fishy Cat - Compute: NVIDIA OptiX



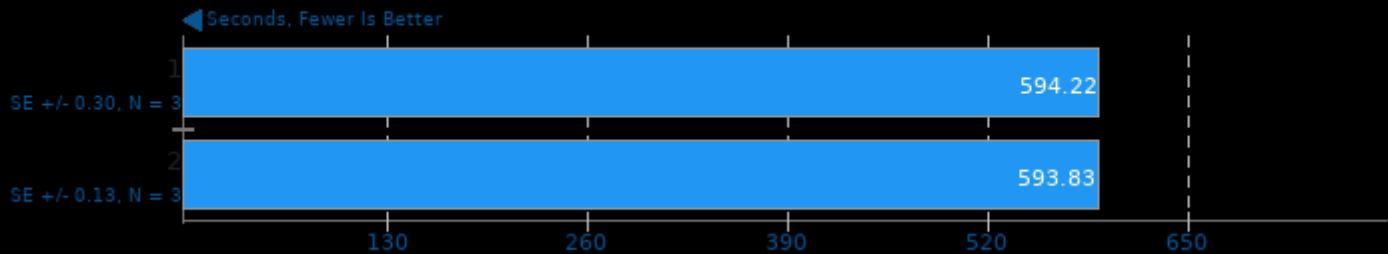
Blender 2.92

Blend File: Barbershop - Compute: NVIDIA OptiX



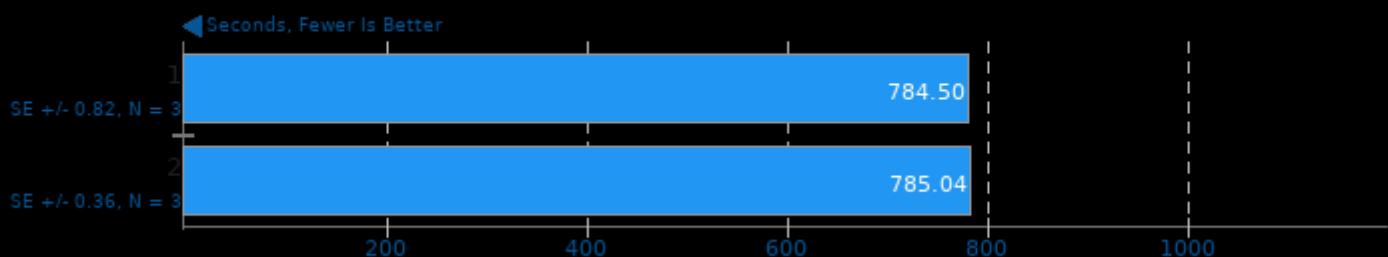
Blender 2.92

Blend File: Pabellon Barcelona - Compute: CUDA



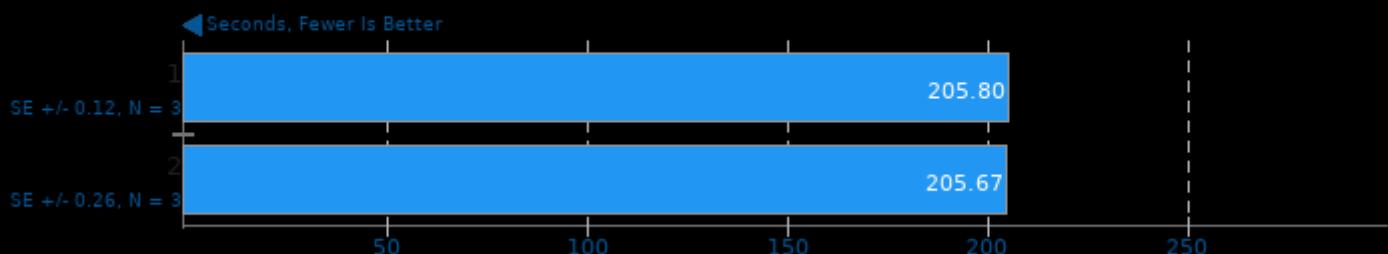
Blender 2.92

Blend File: Pabellon Barcelona - Compute: CPU-Only



Blender 2.92

Blend File: Pabellon Barcelona - Compute: NVIDIA OptiX



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