

www.phoronix-test-suite.com

blender-29-nvidia-cards

AMD Ryzen 5 3600 6-Core testing with a ASUS TUF GAMING B550M-PLUS (1401 BIOS) and NVIDIA GeForce RTX 3070 8GB on openSUSE 15.2 via the Phoronix Test Suite.

Test Systems:

PNY Quadro M4000

Processor: AMD Ryzen 5 3600 6-Core @ 3.60GHz (6 Cores / 12 Threads), Motherboard: ASUS TUF GAMING B550M-PLUS (1401 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 256GB Western Digital WDS256G1X0C-00ENX0, Graphics: NVIDIA Quadro M4000 8GB (772/3004MHz), Audio: NVIDIA GM204 HD Audio, Monitor: PMO S320-IQC, Network: Realtek RTL8125 2.5GbE

OS: openSUSE 15.2, Kernel: 5.3.18-lp152.63-default (x86_64), Desktop: KDE Plasma 5.18.6, Display Server: X Server 1.20.3, Display Driver: NVIDIA 460.39, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 11.2.136, Vulkan: 1.2.155, Compiler: GCC 7.5.0 + CUDA 11.2, File-System: btrfs, Screen Resolution: 2560x1440

Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x8701021
OpenCL Notes: GPU Compute Cores: 1664

Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

Gigabyte GeForce GTX 1650 D6 OC 4G Rev.2.0

Processor: AMD Ryzen 5 3600 6-Core @ 3.60GHz (6 Cores / 12 Threads), Motherboard: ASUS TUF GAMING B550M-PLUS (1401 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 256GB Western Digital WDS256G1X0C-00ENX0, Graphics: NVIDIA GeForce GTX 1650 4GB (1410/6000MHz), Audio: NVIDIA TU116 HD Audio, Monitor: PMO S320-IQC, Network: Realtek RTL8125 2.5GbE

OS: openSUSE 15.2, Kernel: 5.3.18-lp152.63-default (x86_64), Desktop: KDE Plasma 5.18.6, Display Server: X Server 1.20.3, Display Driver: NVIDIA 460.39, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 11.2.136, Vulkan: 1.2.155, Compiler: GCC 7.5.0 + CUDA 11.2, File-System: btrfs, Screen Resolution: 2560x1440

Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x8701021
OpenCL Notes: GPU Compute Cores: 896
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

- ASUS GeForce RTX 3070 TUF Gaming OC 8GB

- ASUS GeForce RTX 3070 TUF Gaming OC 8GB NVIDIA OptiX 2

Processor: AMD Ryzen 5 3600 6-Core @ 3.60GHz (6 Cores / 12 Threads), Motherboard: ASUS TUF GAMING B550M-PLUS (1401 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 256GB Western Digital WDS256G1X0C-00ENX0, Graphics: NVIDIA GeForce RTX 3070 8GB (1815/7000MHz), Audio: NVIDIA Device 228b, Monitor: PMO S320-IQC, Network: Realtek RTL8125 2.5GbE

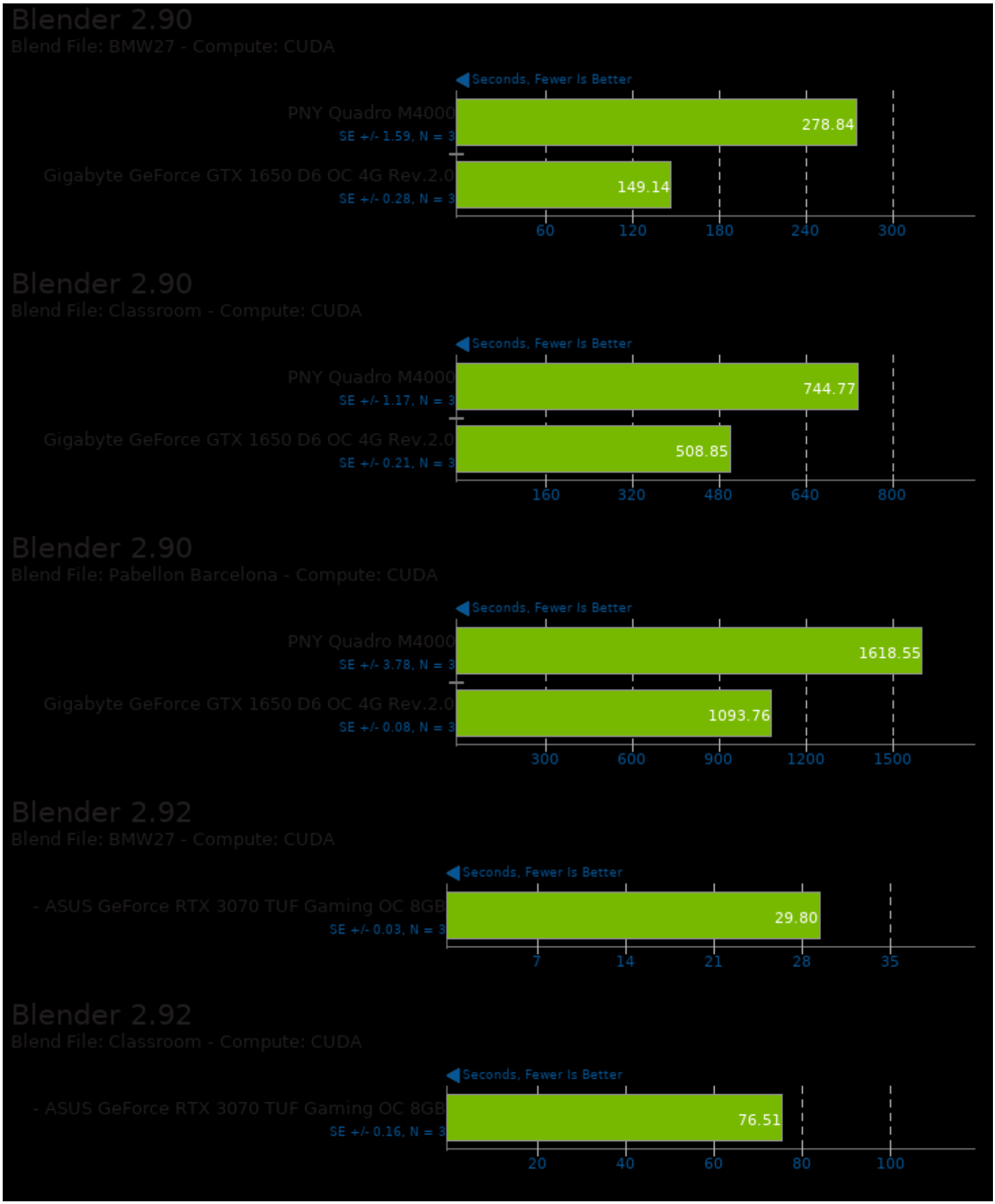
OS: openSUSE 15.2, Kernel: 5.3.18-lp152.66-default (x86_64), Desktop: KDE Plasma 5.18.6, Display Server: X Server 1.20.3, Display Driver: NVIDIA 460.56, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 11.2.153, Vulkan: 1.2.155, Compiler: GCC 7.5.0 + CUDA 11.2, File-System: btrfs, Screen Resolution: 2560x1440

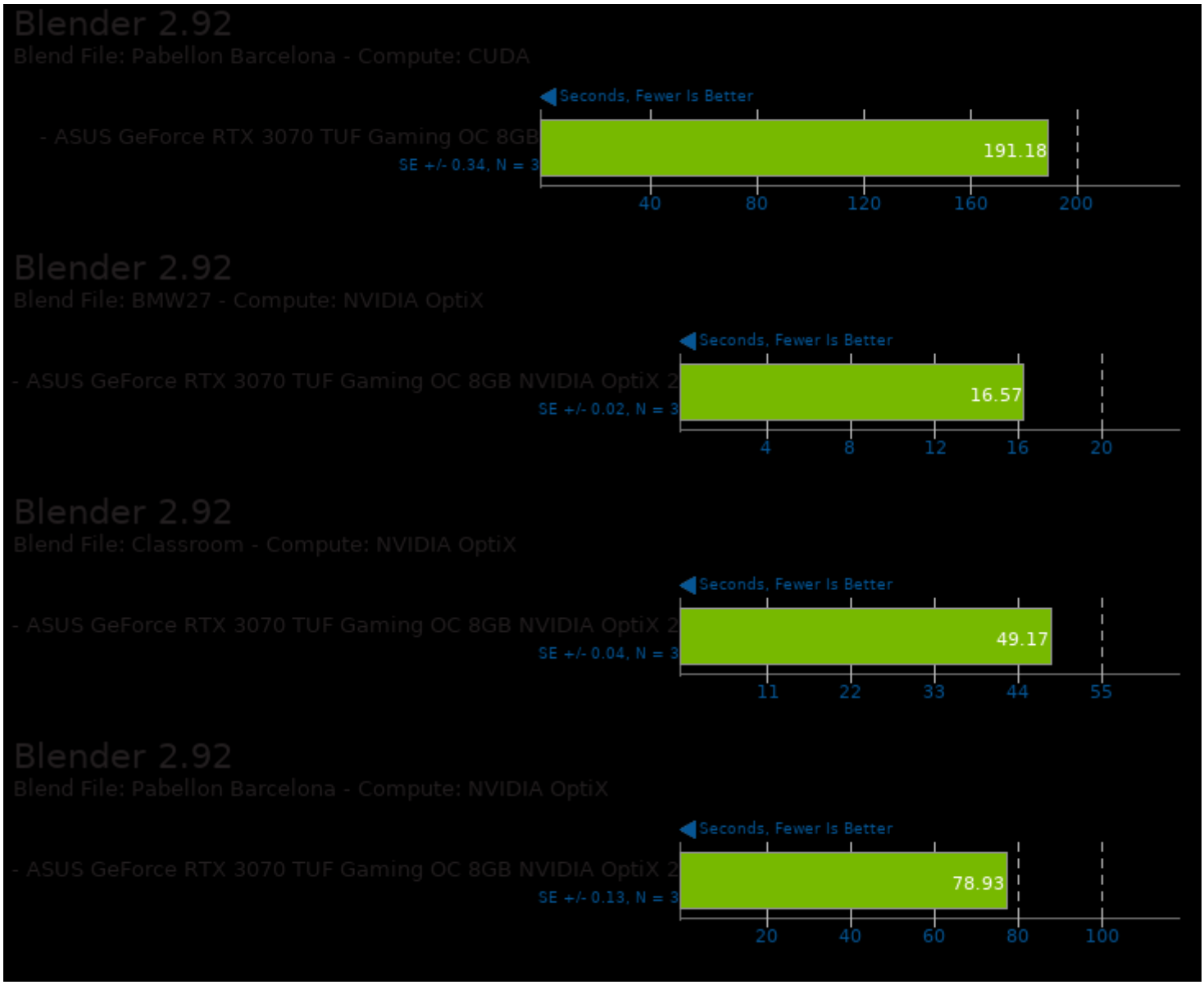
Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x8701021
OpenCL Notes: GPU Compute Cores: 5888
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

	PNY Quadro M4000	Gigabyte GeForce GTX 1650 D6 OC 4G Rev.2.0	- ASUS GeForce RTX 3070 TUF Gaming OC 8GB	- ASUS GeForce RTX 3070 TUF Gaming OC 8GB NVIDIA OptiX 2
Blender - BMW27 - CUDA (sec)	**278.84**	**149.14**		
Normalized	53.49%	100%		
Standard Deviation	1%	0.3%		
Blender - Classroom - CUDA (sec)	**744.77**	**508.85**		
Normalized	68.32%	100%		
Standard Deviation	0.3%	0.1%		

blender-29-nvidia-cards

Blender - Pabellon Barcelona - CUDA (sec)	1619	1094		
Normalized	67.58%	100%		
Standard Deviation	0.4%	0%		
Blender - BMW27 - CUDA (sec)			29.80	
Standard Deviation			0.2%	
Blender - Classroom - CUDA (sec)			76.51	
Standard Deviation			0.4%	
Blender - Pabellon Barcelona - CUDA (sec)			191.18	
Standard Deviation			0.3%	
Blender - BMW27 - NVIDIA OptiX (sec)				16.57
Standard Deviation				0.2%
Blender - Classroom - NVIDIA OptiX (sec)				49.17
Standard Deviation				0.1%
Blender - Pabellon Barcelona - NVIDIA OptiX (sec)				78.93
Standard Deviation				0.3%


Blender 2.90
Blend File: BMW27 - Compute: CUDA
Seconds, Fewer Is Better
PNY Quadro M4000
SE +/- 1.59, N = 3
278.84
Gigabyte GeForce GTX 1650 D6 OC 4G Rev.2.0
SE +/- 0.28, N = 3
149.14
60
120
180
240
300
Blender 2.90
Blend File: Classroom - Compute: CUDA
Seconds, Fewer Is Better
PNY Quadro M4000
SE +/- 1.17, N = 3
744.77
Gigabyte GeForce GTX 1650 D6 OC 4G Rev.2.0
SE +/- 0.21, N = 3
508.85
160
320
480
640
800
Blender 2.90
Blend File: Pabellon Barcelona - Compute: CUDA
Seconds, Fewer Is Better
PNY Quadro M4000
SE +/- 3.78, N = 3
1618.55
Gigabyte GeForce GTX 1650 D6 OC 4G Rev.2.0
SE +/- 0.08, N = 3
1093.76
300
600
900
1200
1500
Blender 2.92
Blend File: BMW27 - Compute: CUDA
Seconds, Fewer Is Better
- ASUS GeForce RTX 3070 TUF Gaming OC 8GB
SE +/- 0.03, N = 3
29.80
7
14
21
28
35
Blender 2.92
Blend File: Classroom - Compute: CUDA
Seconds, Fewer Is Better
- ASUS GeForce RTX 3070 TUF Gaming OC 8GB
SE +/- 0.16, N = 3
76.51
20
40
60
80
100



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 12:18.