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Blender 3.0 Test Run

AMD Ryzen 9 5950X 16-Core testing with a ASUS ROG CROSSHAIR VIII HERO (WI-FI) (3801 BIOS) and NVIDIA GeForce RTX 3080 10GB on Ubuntu 21.10 via the Phoronix Test Suite.

Automated Executive Summary

C had the most wins, coming in first place for 60% of the tests.

Based on the geometric mean of all complete results, the fastest (C) was 1.002x the speed of the slowest (A). C was 1x the speed of D, B was 1x the speed of C, A was 0.999x the speed of B.

Test Systems:

A

B

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C

D

Processor: AMD Ryzen 9 5950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG CROSSHAIR VIII HERO (WI-FI) (3801 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 1000GB Sabrent Rocket 4.0 Plus, Graphics: NVIDIA GeForce RTX 3080 10GB, Audio: NVIDIA GA102 HD Audio, Monitor: ASUS MG28U, Network: Realtek RTL8125 2.5GbE + Intel I211 + Intel Wi-Fi 6 AX200

OS: Ubuntu 21.10, Kernel: 5.13.0-22-generic (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server 1.20.13, Display Driver: NVIDIA 495.44, OpenGL: 4.6.0, OpenCL: OpenCL 3.0 CUDA 11.5.100, Vulkan: 1.2.186, Compiler: GCC 11.2.0 + Clang 13.0.0-2, File-System: ext4, Screen Resolution: 3840x2160

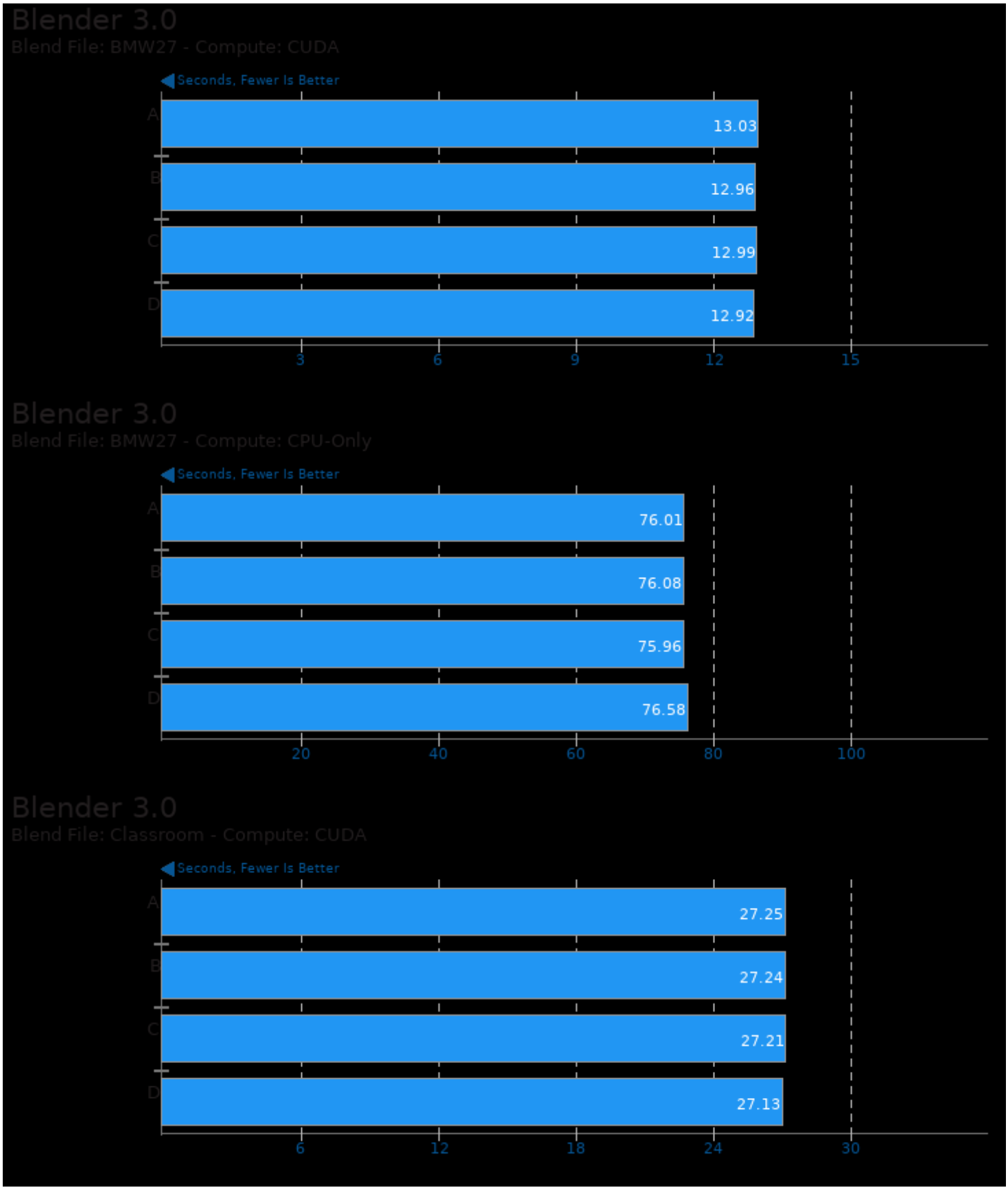
Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa201016
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	A	B	C	D
Blender - BMW27 - CUDA (sec)	**13.03**	12.96	12.99	**12.92**
Normalized	99.16%	99.69%	99.46%	100%
Blender - BMW27 - CPU-Only (sec)	76.01	76.08	**75.96**	**76.58**
Normalized	99.93%	99.84%	100%	99.19%
Blender - Classroom - CUDA (sec)	**27.25**	27.24	27.21	**27.13**
Normalized	99.56%	99.6%	99.71%	100%
Blender - Fishy Cat - CUDA (sec)	**27.01**	**27.09**	27.06	
Normalized	100%	99.7%	99.82%	
Blender - Barbershop - CUDA (sec)	**109.41**	108.87	**107.91**	
Normalized	98.63%	99.12%	100%	
Blender - BMW27 - NVIDIA OptiX (sec)	7.95	**7.96**	**7.92**	
Normalized	99.62%	99.5%	100%	
Blender - Classroom - CPU-Only (sec)	202.55	**202.62**	**202.35**	
Normalized	99.9%	99.87%	100%	
Blender - Fishy Cat - CPU-Only (sec)	100.86	**100.94**	**100.59**	
Normalized	99.73%	99.65%	100%	
Blender - Barbershop - CPU-Only	**775.18**	**771.93**	**775.18**	
Normalized	99.58%	100%	99.58%	
Blender - Classroom - NVIDIA OptiX (sec)	20.49	**20.5**	**20.39**	
Normalized	99.51%	99.46%	100%	
Blender - Fishy Cat - NVIDIA OptiX	**13.24**	13.21	**13.16**	
Normalized	99.4%	99.62%	100%	
Blender - Barbershop - NVIDIA OptiX (sec)	**66.88**	66.76	**66.11**	
Normalized	98.85%	99.03%	100%	
Blender - Pabellon Barcelona - CUDA (sec)	**59.44**	59.3	**59.02**	
Normalized	99.29%	99.53%	100%	

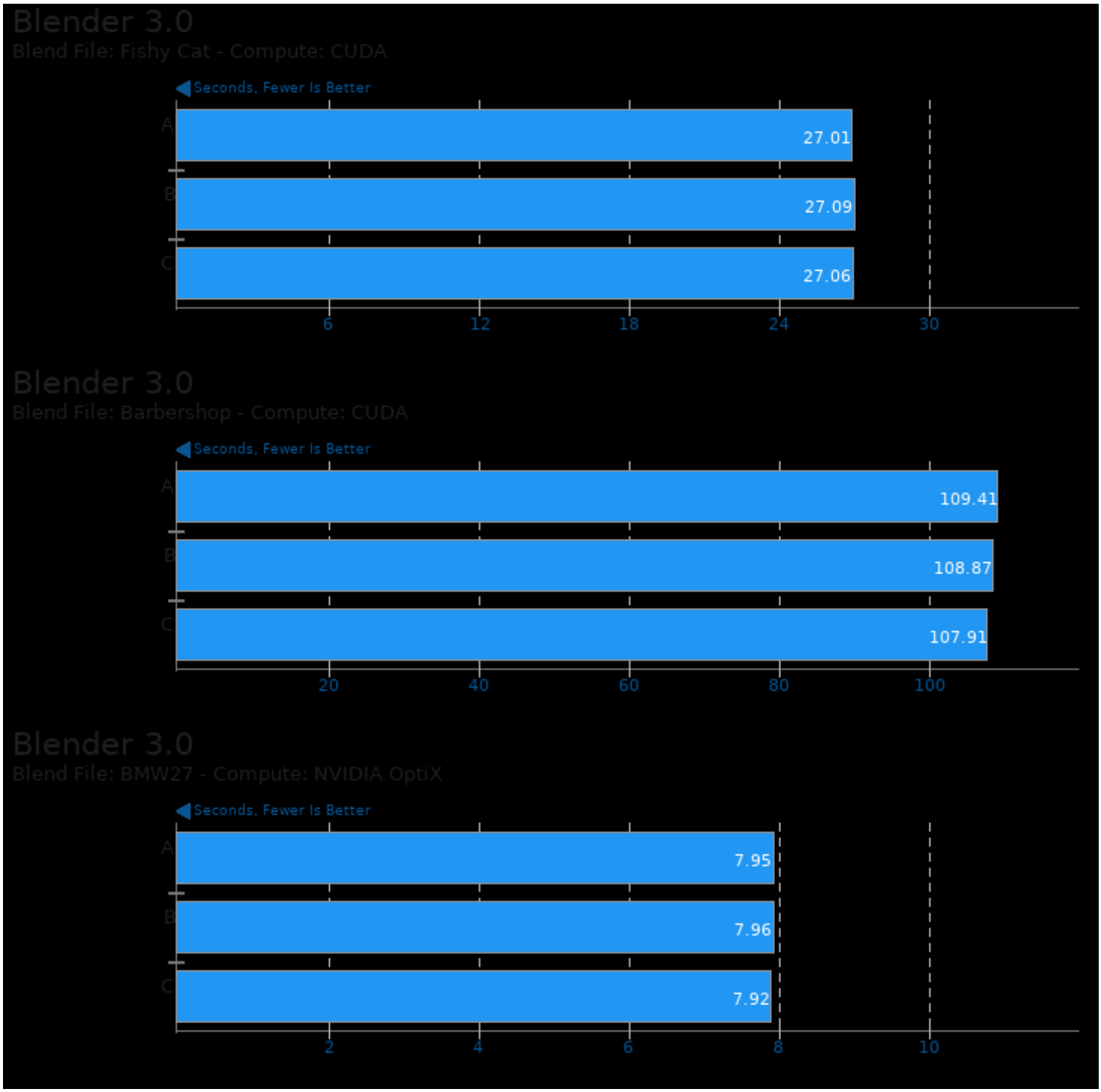
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Blender - Pabellon Barcelona - CPU-Only (sec)	**249.23**	**249.73**
Normalized	100%	99.8%
Blender - Pabellon Barcelona - NVIDIA OptiX (sec)	**21.26**	**21.21**
Normalized	99.76%	100%

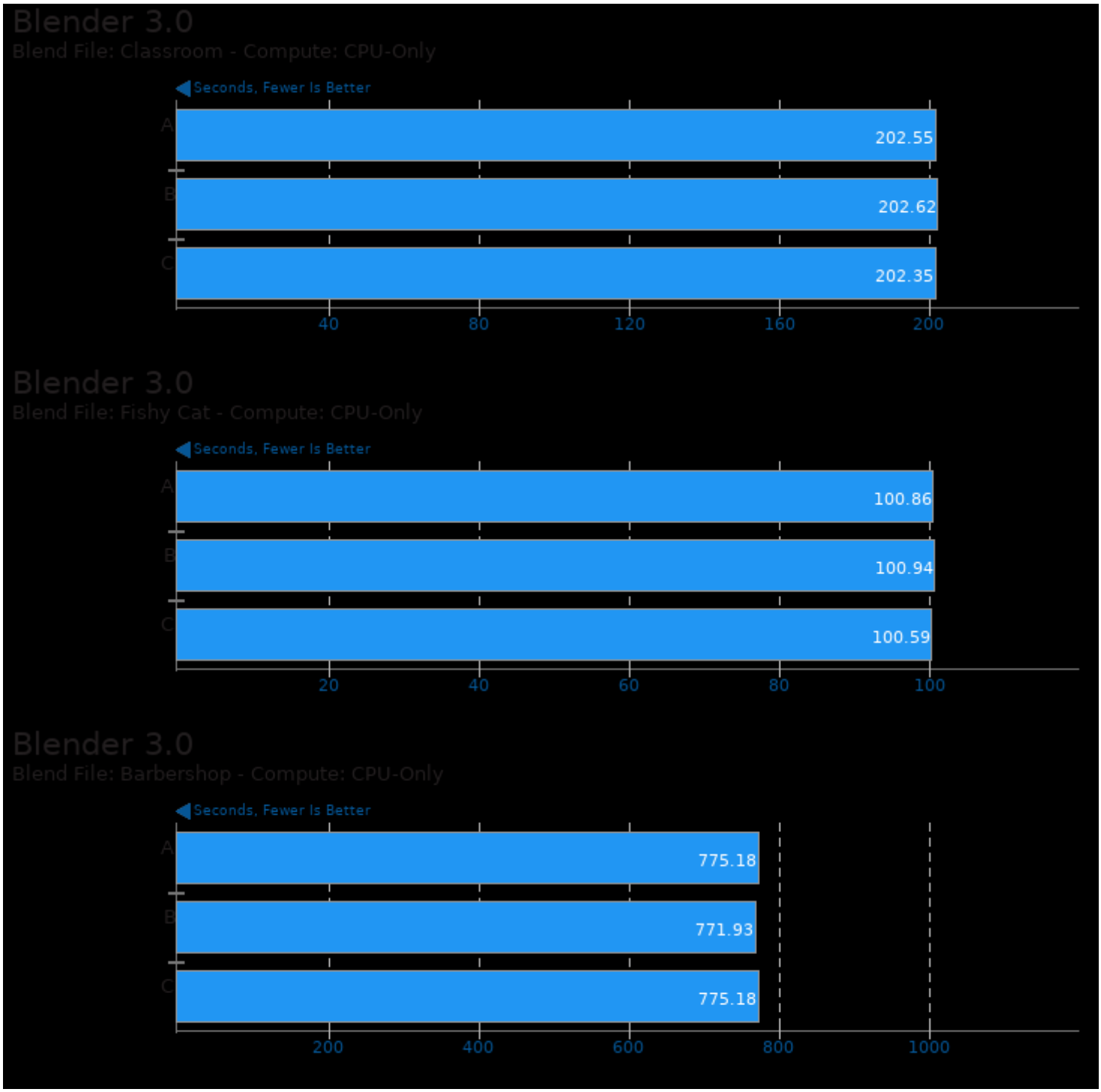
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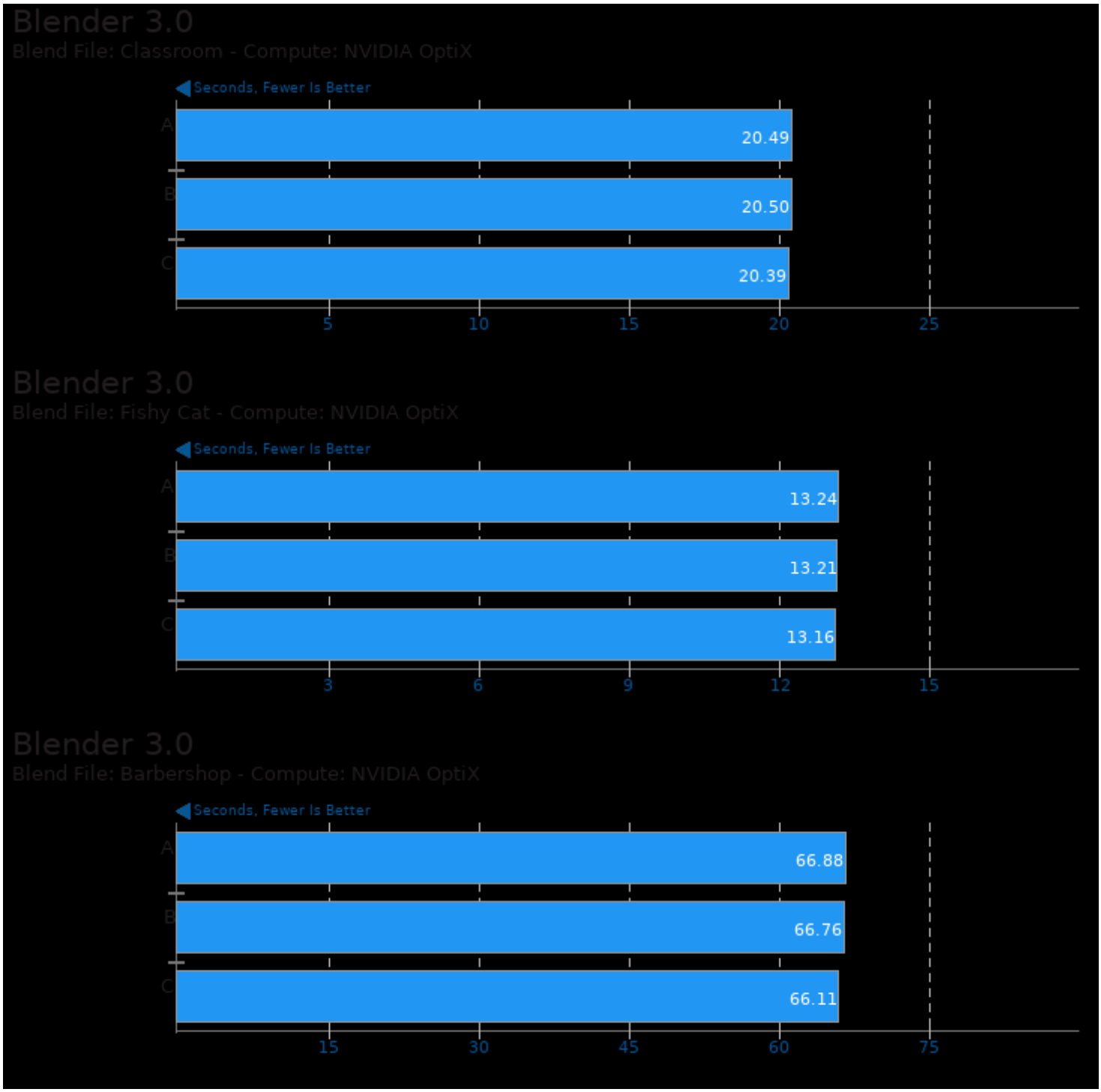
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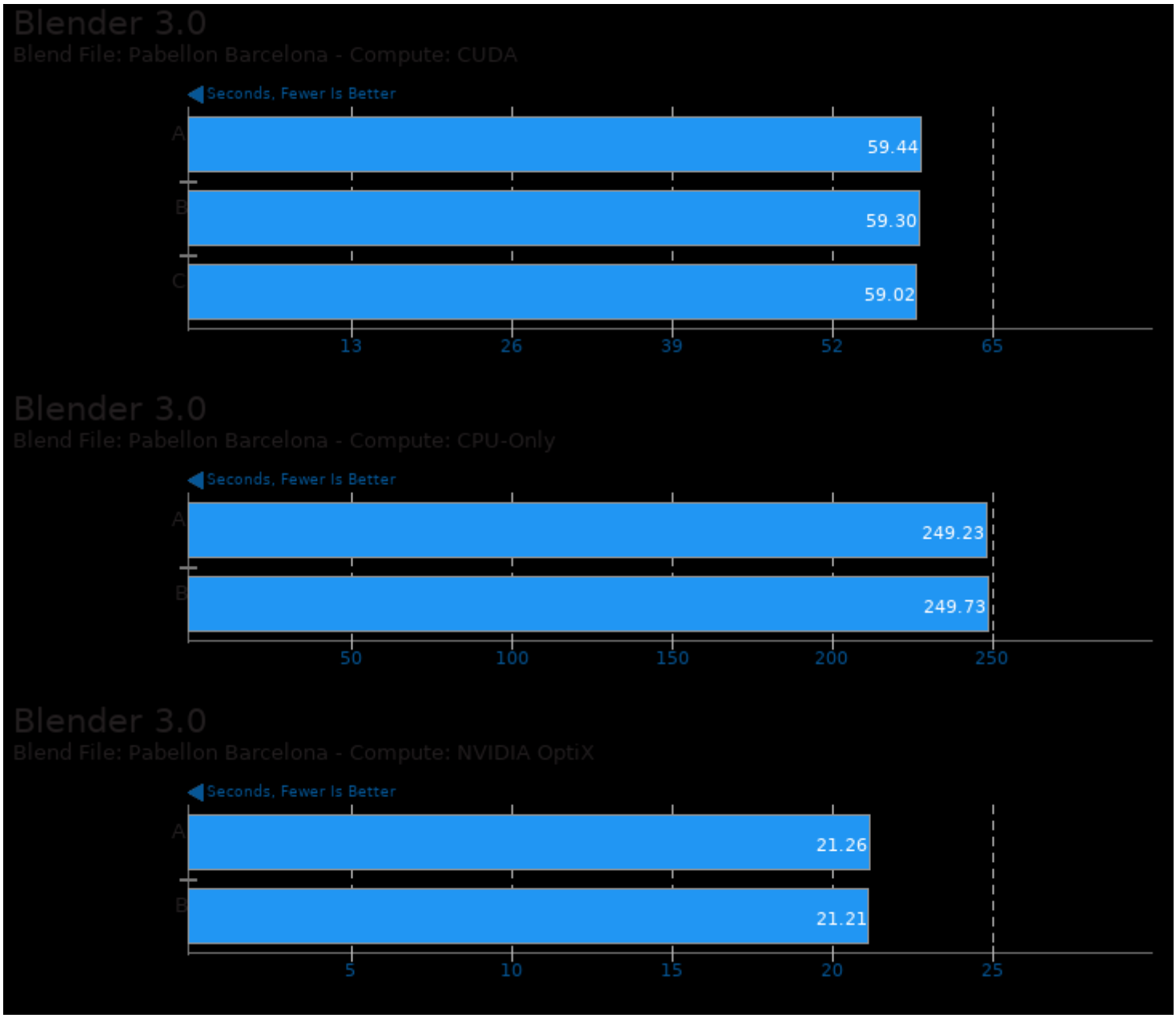
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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 05:39.