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AMD Ryzen Threadripper 3990X 64-Core testing with a Gigabyte TRX40 AORUS PRO WIFI (F4p BIOS) and AMD Radeon RX 5700 8GB on Pop 21.10 via the Phoronix Test Suite.

Automated Executive Summary

B had the most wins, coming in first place for 50% of the tests.

Based on the geometric mean of all complete results, the fastest (B) was 1.005x the speed of the slowest (A). D was 0.998x the speed of B, C was 0.999x the speed of D, A was 0.997x the speed of C.

Test Systems:

A

B

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C

D

Processor: AMD Ryzen Threadripper 3990X 64-Core @ 2.90GHz (64 Cores / 128 Threads), Motherboard: Gigabyte TRX40 AORUS PRO WIFI (F4p BIOS), Chipset: AMD Starship/Matisse, Memory: 128GB, Disk: Samsung SSD 970 EVO Plus 500GB, Graphics: AMD Radeon RX 5700 8GB (1750/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: DELL P2415Q, Network: Intel I211 + Intel Wi-Fi 6 AX200

OS: Pop 21.10, Kernel: 5.15.8-76051508-generic (x86_64), Desktop: GNOME Shell 40.5, Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 21.2.2 (LLVM 12.0.1), Vulkan: 1.2.182, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 3840x2160

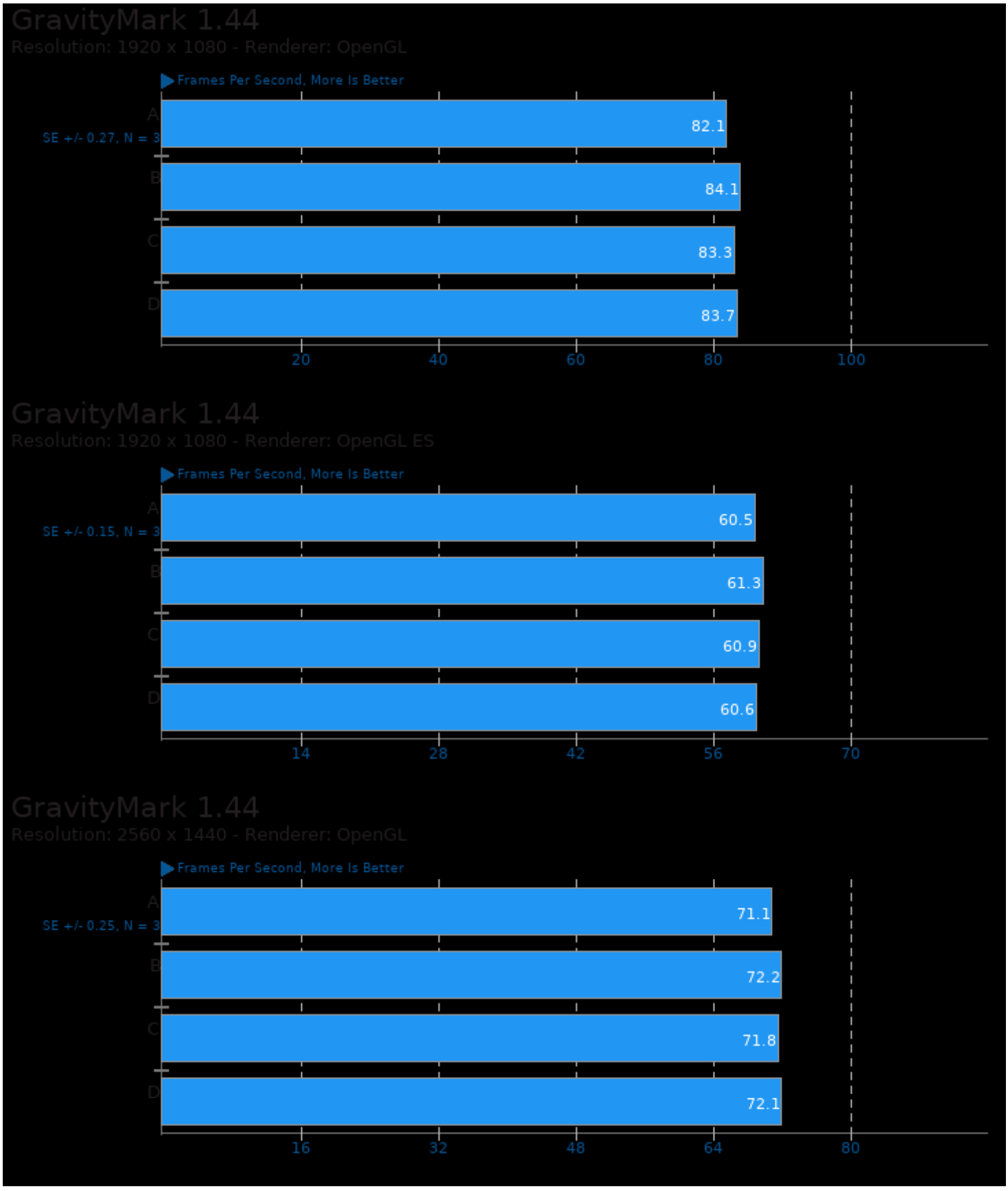
Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x8301039
Graphics Notes: GLAMOR - BAR1 / Visible vRAM Size: 256 MB
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: 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 STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	A	B	C	D
GravityMark - 1920 x 1080 - OpenGL (FPS)	82.1	84.1	83.3	83.7
Normalized	97.62%	100%	99.05%	99.52%
Standard Deviation	0.6%			
GravityMark - 1920 x 1080 - OpenGL ES (FPS)	60.5	61.3	60.9	60.6
Normalized	98.69%	100%	99.35%	98.86%
Standard Deviation	0.4%			
GravityMark - 2560 x 1440 - OpenGL (FPS)	71.1	72.2	71.8	72.1
Normalized	98.48%	100%	99.45%	99.86%
Standard Deviation	0.6%			
GravityMark - 1920 x 1200 - OpenGL (FPS)	82.4	83.7	83.6	83.2
Normalized	98.45%	100%	99.88%	99.4%
Standard Deviation	0.4%			
GravityMark - 2560 x 1440 - OpenGL ES (FPS)	52.5	53.3	52.1	53.1
Normalized	98.5%	100%	97.75%	99.62%
Standard Deviation	0.4%			
GravityMark - 1920 x 1200 - OpenGL ES (FPS)	60.7	60	60	60.7
Normalized	100%	98.85%	98.85%	100%
Standard Deviation	0.9%			
GravityMark - 1920 x 1080 - Vulkan (FPS)	81.6	81.4	81.1	81.3
Normalized	100%	99.75%	99.39%	99.63%
Standard Deviation	0.3%			

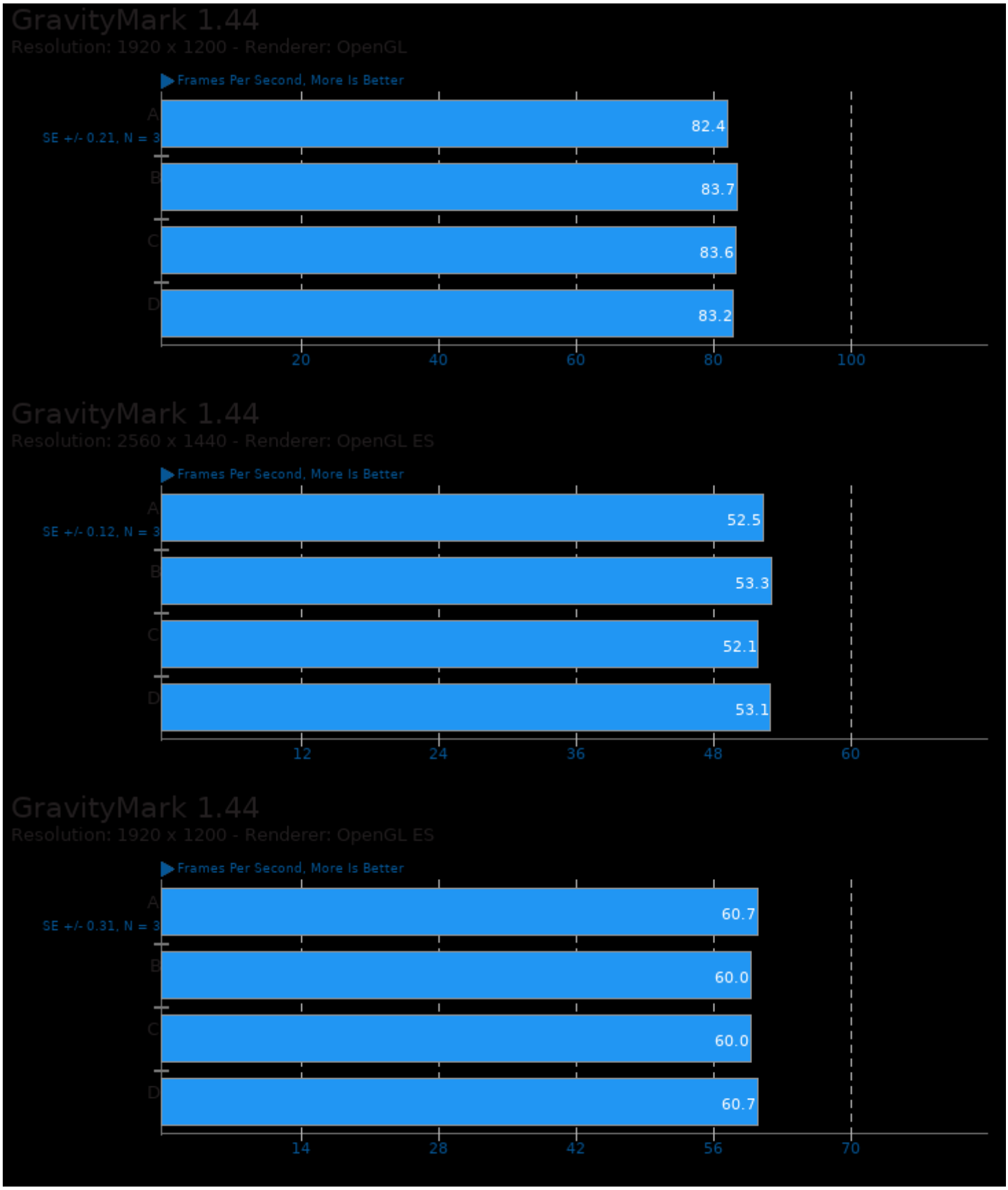
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GravityMark - 2560 x 1440 - Vulkan (FPS)	**72.0**	71.5	**71.2**	71.6
Normalized	100%	99.31%	98.89%	99.44%
Standard Deviation	0.2%			
GravityMark - 1920 x 1200 - Vulkan (FPS)	**81.5**	**80.9**	81.4	**81.5**
Normalized	100%	99.26%	99.88%	100%
Standard Deviation	0.2%			
GravityMark - 3840 x 2160 - OpenGL (FPS)	**52.7**	**52.8**	**52.7**	**52.7**
Normalized	99.81%	100%	99.81%	99.81%
Standard Deviation	0.1%			
GravityMark - 3840 x 2160 - OpenGL ES (FPS)	37.4	37.7	**38.4**	**37.2**
Normalized	97.4%	98.18%	100%	96.88%
Standard Deviation	0.2%			
GravityMark - 3840 x 2160 - Vulkan (FPS)	**53.8**	**53.8**	**53.6**	53.7
Normalized	100%	100%	99.63%	99.81%
Standard Deviation	0.2%			

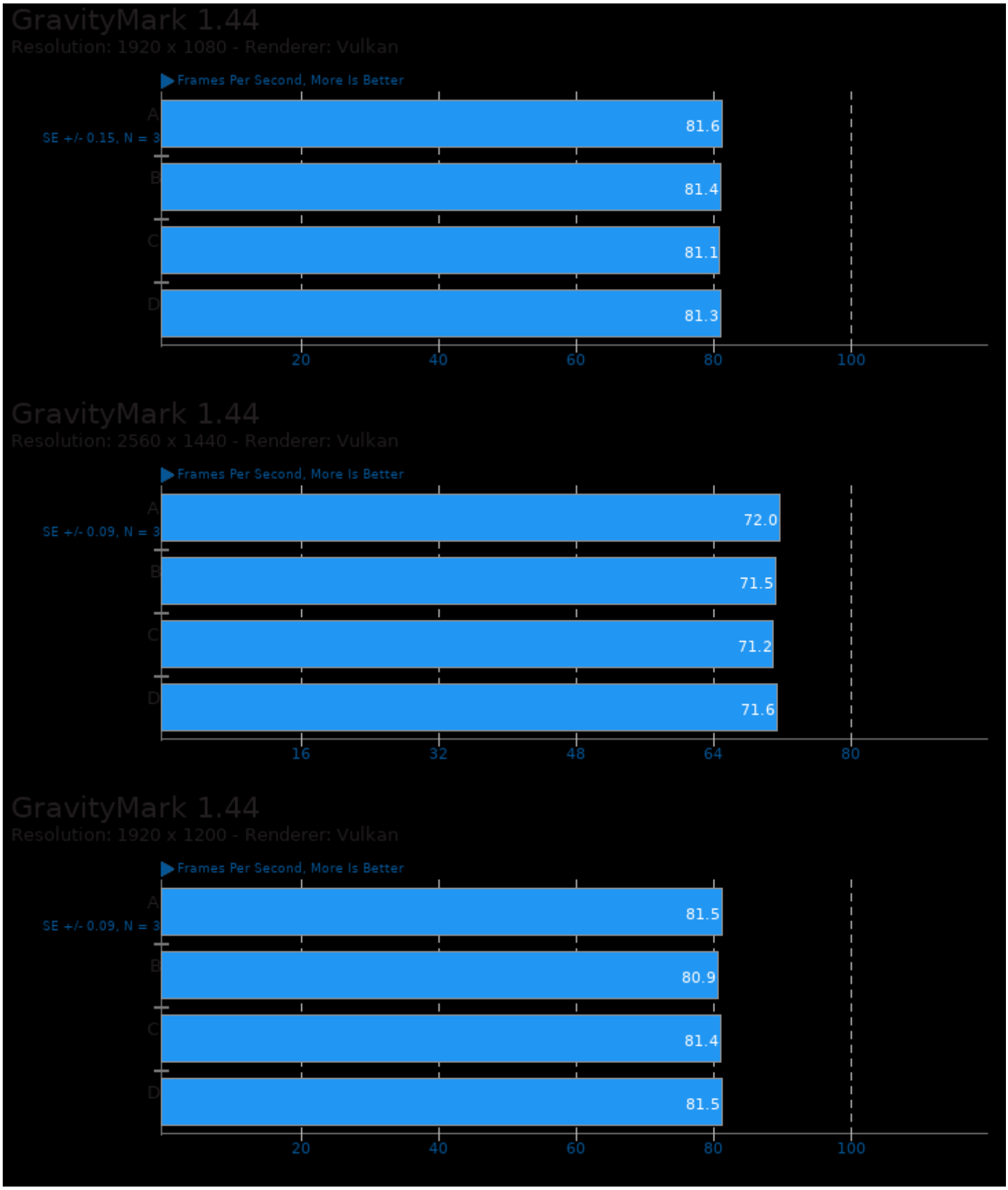
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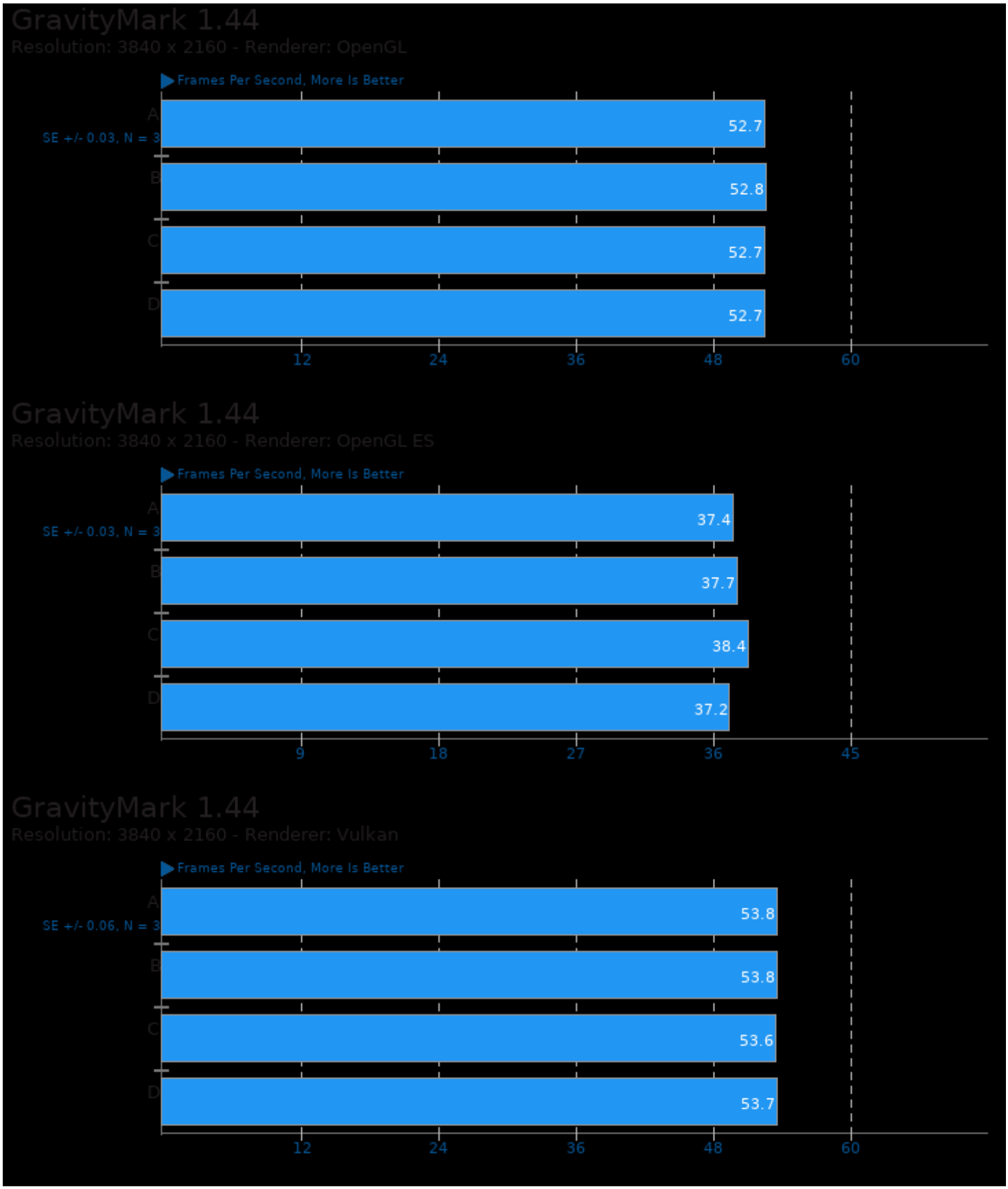
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