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AMD Ryzen 5 4500U testing with a LENOVO LNVNB161216 (EECN20WW BIOS) and AMD Renoir 512MB on Ubuntu 21.04 via the Phoronix Test Suite.

Automated Executive Summary

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

Based on the geometric mean of all complete results, the fastest (3) was 1.005x the speed of the slowest (2). 1 was 0.995x the speed of 3 and 2 was 1x the speed of 1.

Test Systems:

1

2

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3

Processor: AMD Ryzen 5 4500U @ 2.38GHz (6 Cores), Motherboard: LENOVO LNVNB161216 (EECN20WW BIOS), Chipset: AMD Renoir Root Complex, Memory: 16GB, Disk: 256GB SK hynix HFM256GDHTNI-87A0B, Graphics: AMD Renoir 512MB (1500/400MHz), Audio: AMD Device 1637, Network: Realtek RTL8822CE 802.11ac PCIe

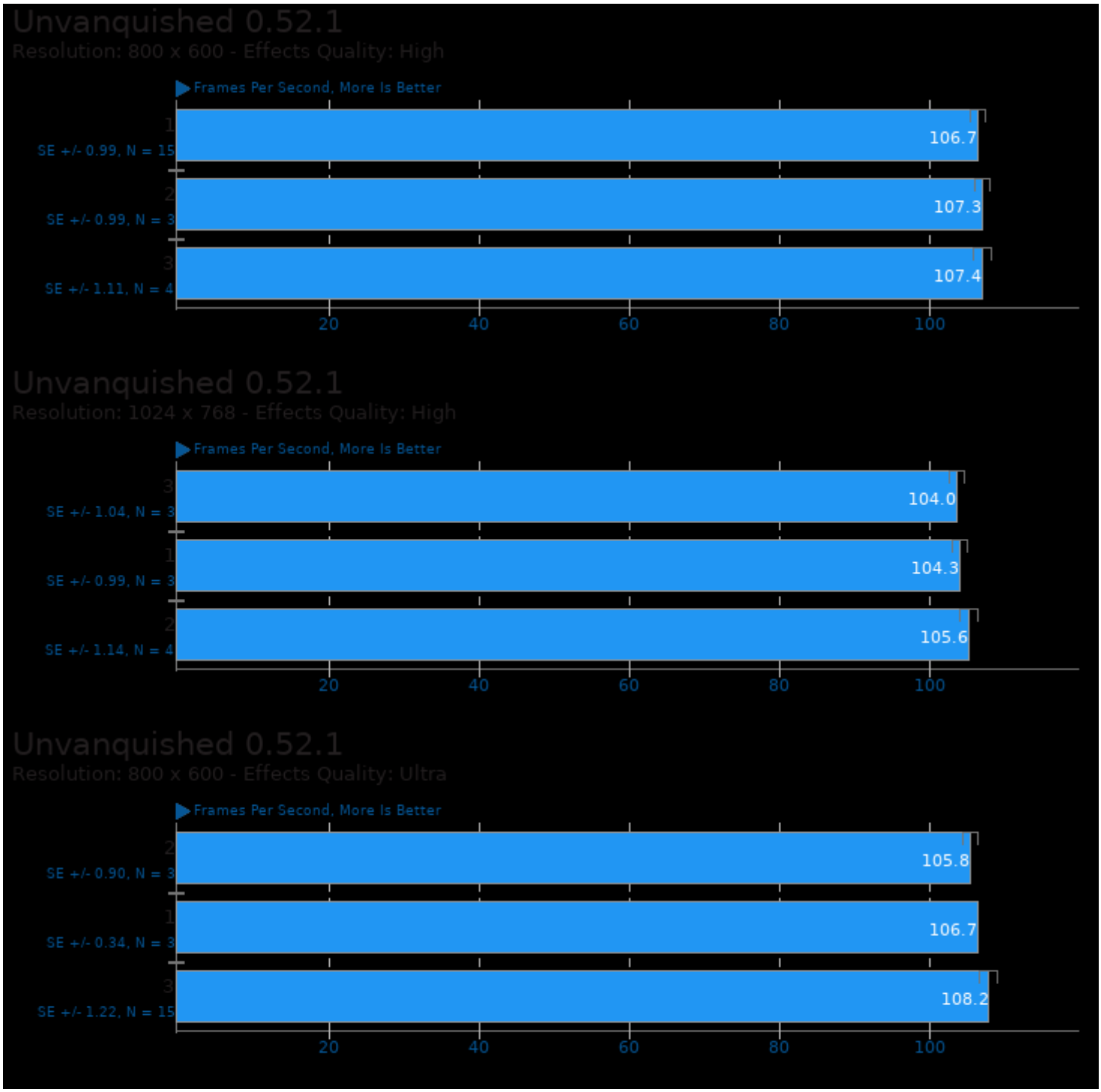
OS: Ubuntu 21.04, Kernel: 5.11.0-18-generic (x86_64), Desktop: GNOME Shell 3.38.4, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.0.1 (LLVM 11.0.1), Vulkan: 1.2.145, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x8600102
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: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

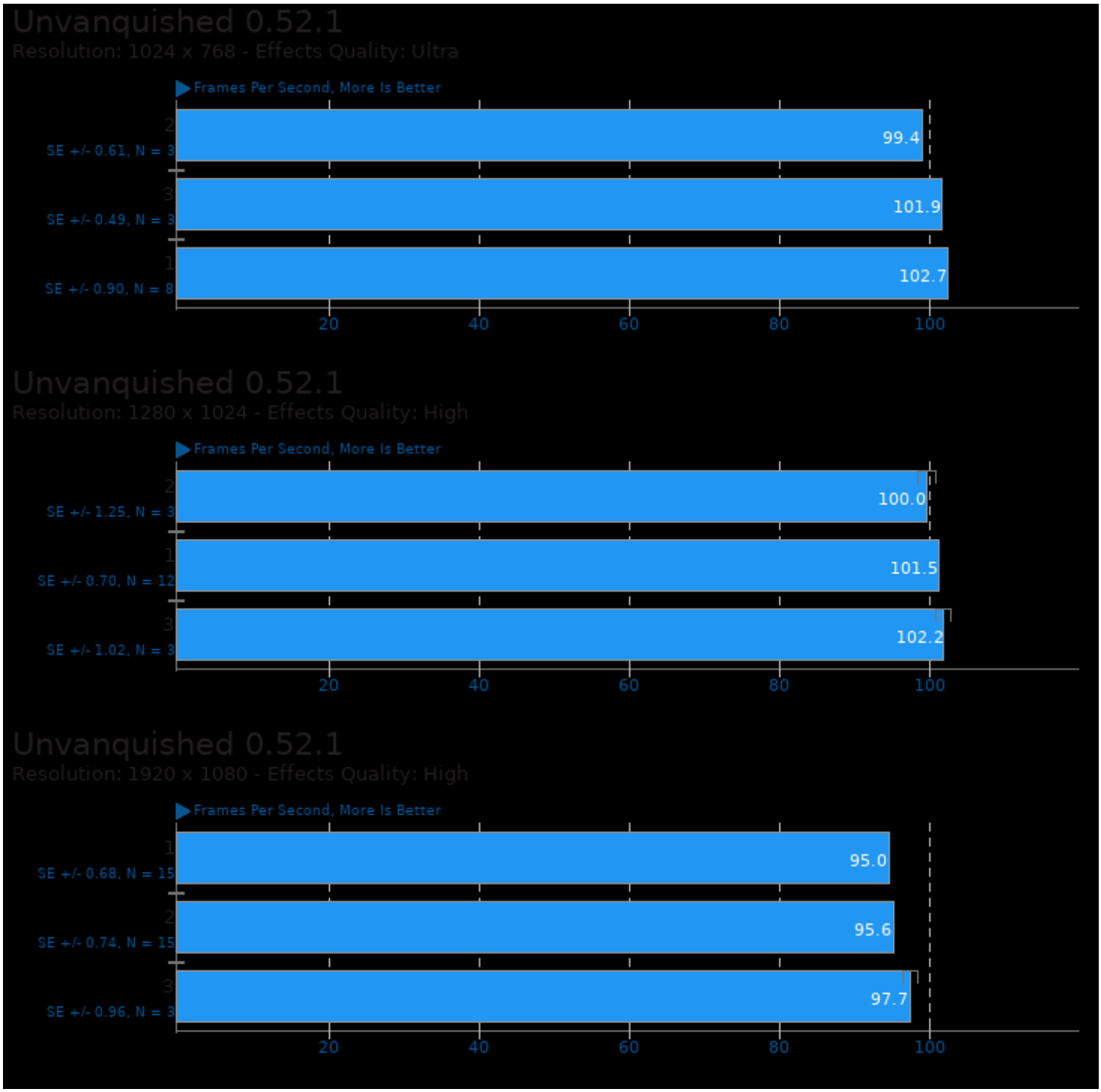
	1	2	3
Unvanquished - 800 x 600 - High (FPS)	106.7	107.3	107.4
Normalized	99.35%	99.91%	100%
Standard Deviation	3.6%	1.6%	2.1%
Unvanquished - 1024 x 768 - High (FPS)	104.3	105.6	104.0
Normalized	98.77%	100%	98.48%
Standard Deviation	1.6%	2.2%	1.7%
Unvanquished - 800 x 600 - Ultra (FPS)	106.7	105.8	108.2
Normalized	98.61%	97.78%	100%
Standard Deviation	0.5%	1.5%	4.4%
Unvanquished - 1024 x 768 - Ultra (FPS)	102.7	99.4	101.9
Normalized	100%	96.79%	99.22%
Standard Deviation	2.5%	1.1%	0.8%
Unvanquished - 1280 x 1024 - High (FPS)	101.5	100.0	102.2
Normalized	99.32%	97.85%	100%
Standard Deviation	2.4%	2.2%	1.7%
Unvanquished - 1920 x 1080 - High (FPS)	95.0	95.6	97.7
Normalized	97.24%	97.85%	100%
Standard Deviation	2.8%	3%	1.7%
Unvanquished - 800 x 600 - Medium (FPS)	105.0	107.0	106.0
Normalized	98.13%	100%	99.07%
Standard Deviation	2%	1.2%	2.5%
Unvanquished - 1024 x 768 - Medium (FPS)	102.4	103.2	101.4
Normalized	99.22%	100%	98.26%
Standard Deviation	1.3%	2.1%	1.5%
Unvanquished - 1280 x 1024 - Ultra (FPS)	93.1	93.0	95.0
Normalized	98%	97.89%	100%
Standard Deviation	0.9%	0.3%	0.6%
Unvanquished - 1920 x 1080 - Ultra (FPS)	80.2	80.7	80.9
Normalized	99.13%	99.75%	100%
Standard Deviation	0.2%	1.2%	1.4%
Unvanquished - 1280 x 1024 - Medium (FPS)	97.7	98.0	97.9
Normalized	99.69%	100%	99.9%
Standard Deviation	1.2%	1.2%	1.9%
Unvanquished - 1920 x 1080 - Medium (FPS)	93.6	92.8	91.9
Normalized	100%	99.15%	98.18%

Standard Deviation	0.3%	1.4%	1.9%

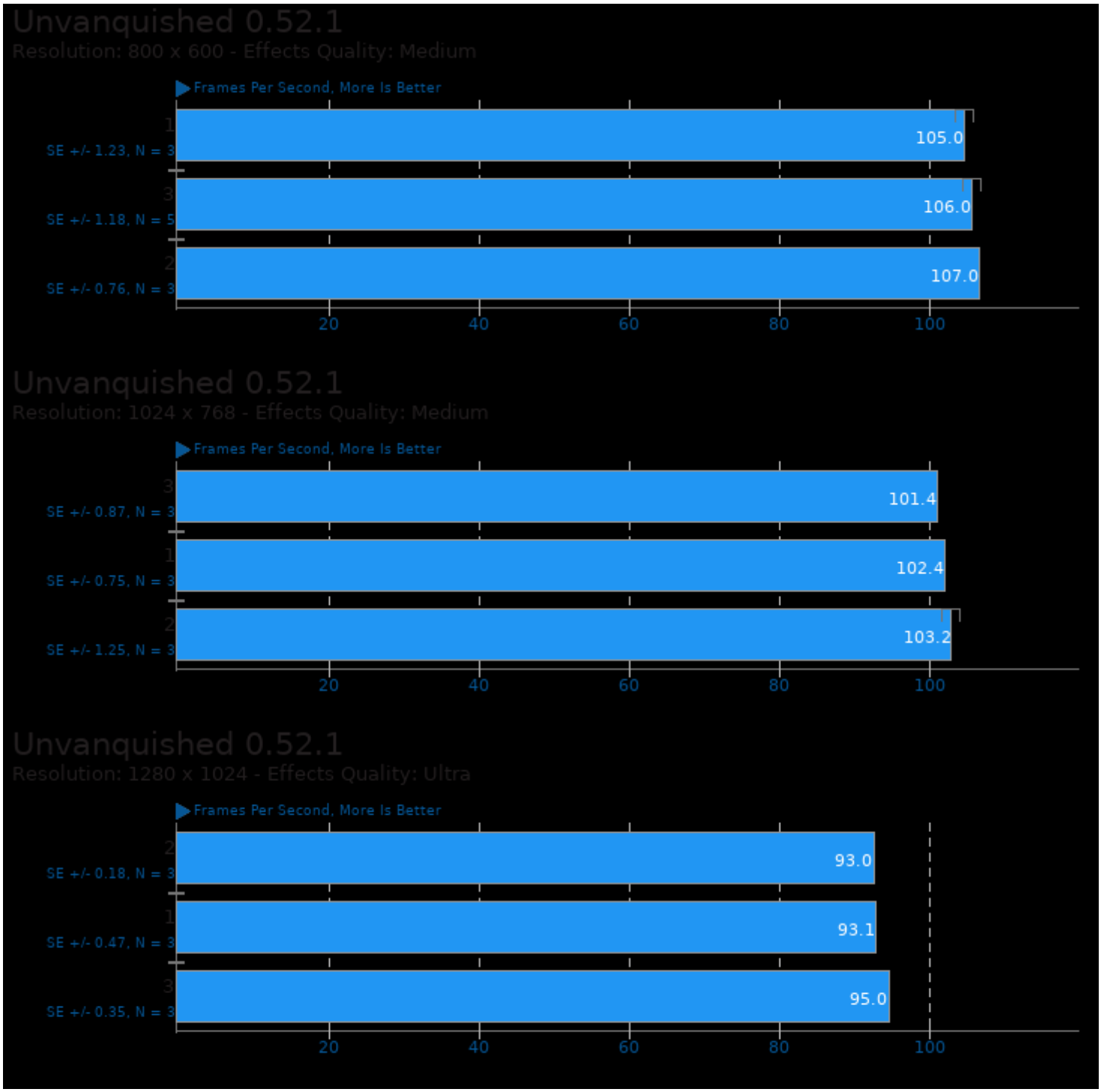
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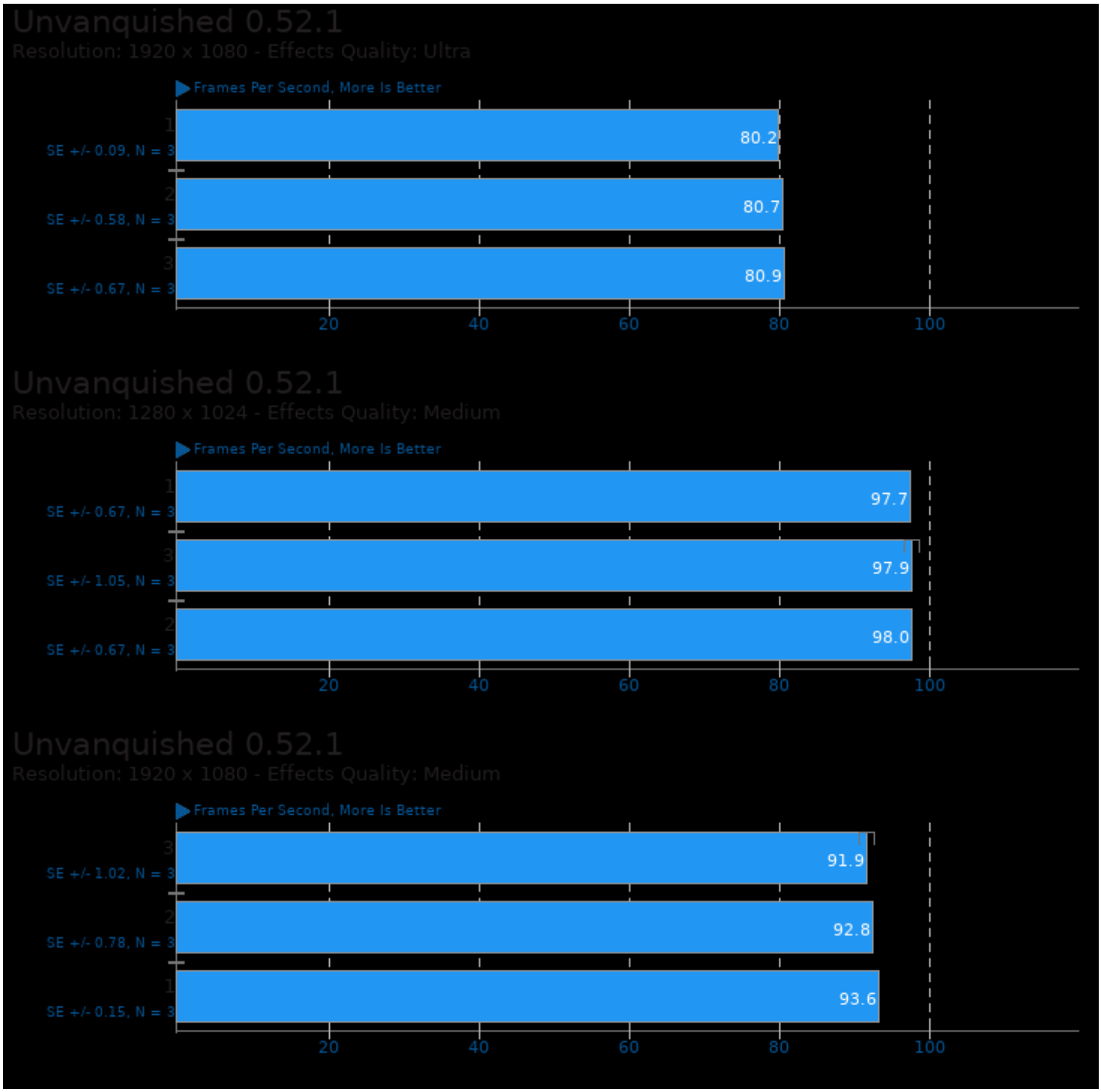


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