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Intel Core i7-1065G7 testing with a Dell 06CDVY (1.0.9 BIOS) and Intel Iris Plus ICL GT2 16GB on Ubuntu 22.04 via the Phoronix Test Suite.

Automated Executive Summary

C had the most wins, coming in first place for 66% of the tests.

Based on the geometric mean of all complete results, the fastest (C) was 1.062x the speed of the slowest (B). A was 0.991x the speed of C and B was 0.951x the speed of A.

The results with the greatest spread from best to worst included:

DDraceNetwork (Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: Vulkan - Zoom: Zoomed out - Demo: RaiNyMore2) at 1.517x
DDraceNetwork (Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: Vulkan - Zoom: Default - Demo: RaiNyMore2) at 1.387x
DDraceNetwork (Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Default - Demo: RaiNyMore2) at 1.231x
DDraceNetwork (Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Default - Demo: Multeasymap) at 1.157x
DDraceNetwork (Resolution: 1920 x 1200 - Mode: Fullscreen - Renderer: Vulkan - Zoom: Zoomed out - Demo:

Multeasymap) at 1.12x
DDraceNetwork (Resolution: 1920 x 1200 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Zoomed out - Demo: RaiNyMore2) at 1.113x
DDraceNetwork (Resolution: 1920 x 1200 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Default - Demo: Multeasymap) at 1.056x
OpenFOAM (Input: drivaerFastback, Small Mesh Size - Mesh Time) at 1.049x
DDraceNetwork (Resolution: 1920 x 1200 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Zoomed out - Demo: Multeasymap) at 1.048x
DDraceNetwork (Resolution: 1920 x 1200 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Default - Demo: RaiNyMore2) at 1.045x.

Test Systems:

A

B

C

Processor: Intel Core i7-1065G7 @ 3.90GHz (4 Cores / 8 Threads), Motherboard: Dell 06CDVY (1.0.9 BIOS), Chipset: Intel Ice Lake-LP DRAM, Memory: 16GB, Disk: Toshiba KBG40ZPZ512G NVMe 512GB, Graphics: Intel Iris Plus ICL GT2 16GB (1100MHz), Audio: Realtek ALC289, Network: Intel Ice Lake-LP PCH CNVi WiFi

OS: Ubuntu 22.04, Kernel: 5.18.8-051808-generic (x86_64), Desktop: GNOME Shell 42.2, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.0.1, Vulkan: 1.3.204, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 1920x1200

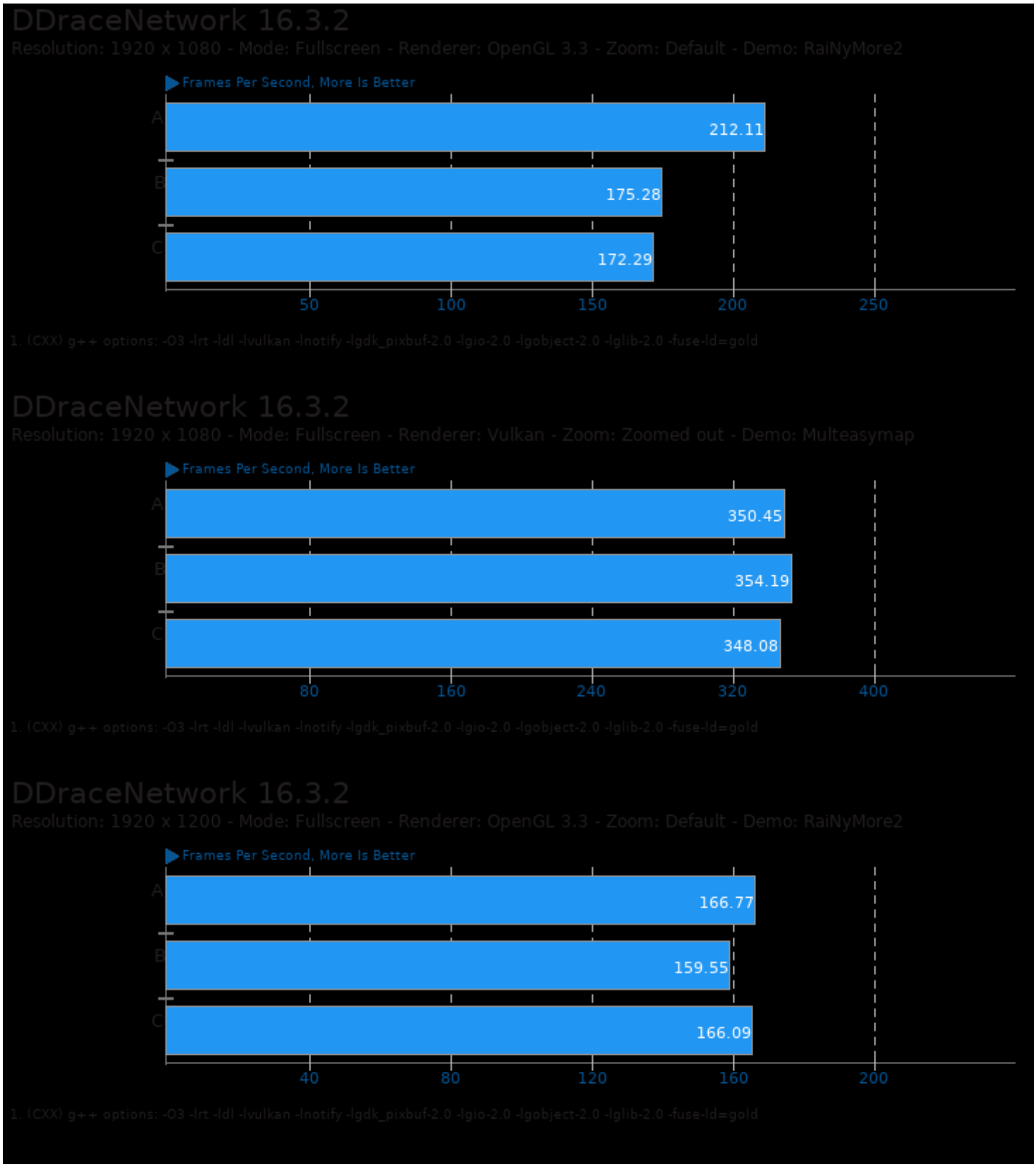
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-gcn/usr --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave (EPP: balance_performance) - CPU Microcode: 0xb0 - Thermald 2.4.9
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Mitigation of Clear buffers; SMT vulnerable + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbds: Mitigation of Microcode + tsx_async_abort: Not affected

	A	B	C
DDraceNetwork - 1920 x 1080 - Fullscreen - OpenGL 3.3 - Default - RaiNyMore2 (FPS)	**212.11**	175.28	**172.29**
Normalized	100%	82.64%	81.23%

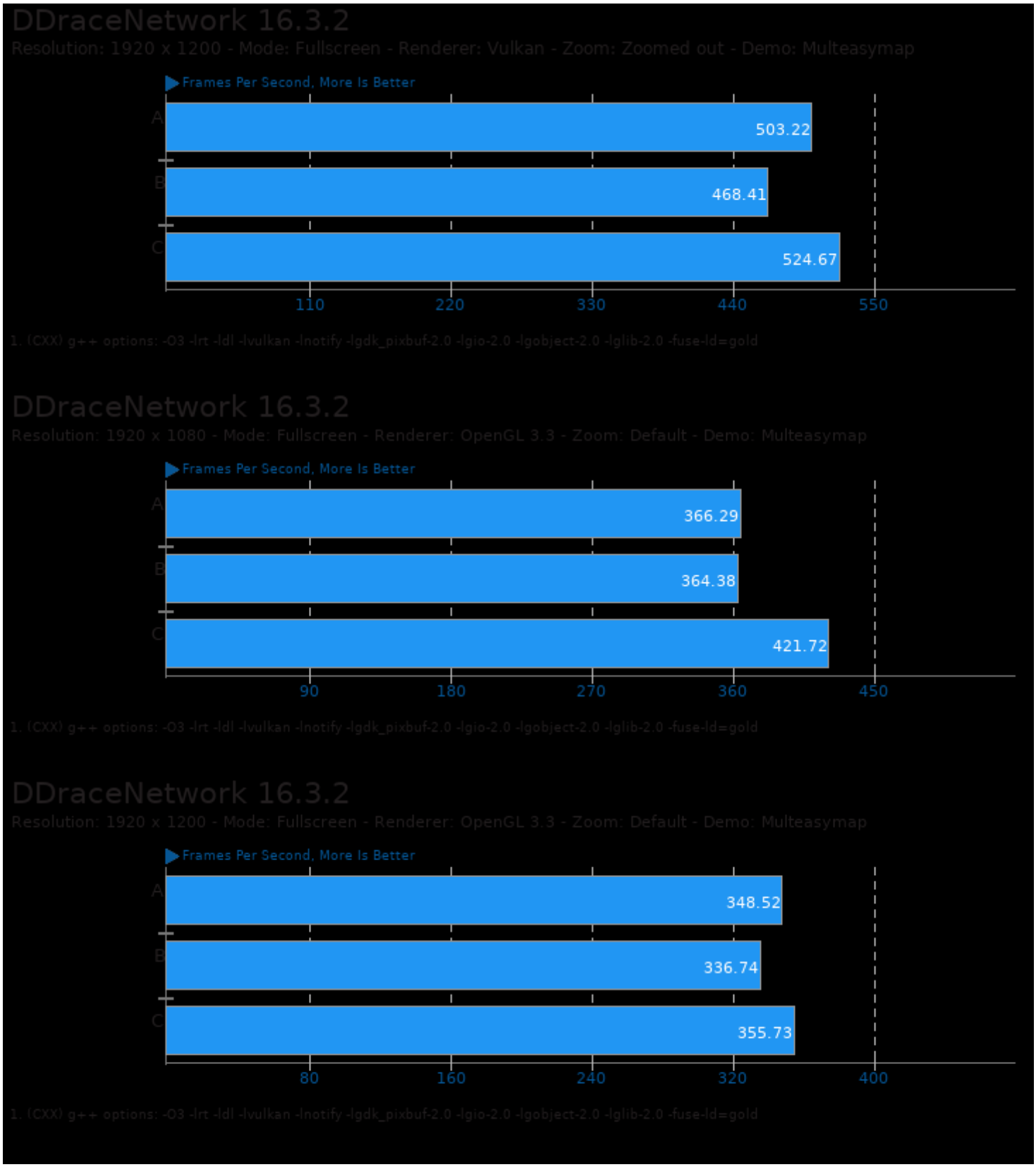
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DDraceNetwork - 1920 x 1080 - Fullscreen - Vulkan - Zoomed out - Multeasymap (FPS)	350.45	**354.19**	**348.08**
Normalized	98.94%	100%	98.27%
DDraceNetwork - 1920 x 1200 - Fullscreen - OpenGL 3.3 - Default - RaiNyMore2 (FPS)	**166.77**	**159.55**	166.09
Normalized	100%	95.67%	99.59%
DDraceNetwork - 1920 x 1200 - Fullscreen - Vulkan - Zoomed out - Multeasymap (FPS)	503.22	**468.41**	**524.67**
Normalized	95.91%	89.28%	100%
DDraceNetwork - 1920 x 1080 - Fullscreen - OpenGL 3.3 - Default - Multeasymap (FPS)	366.29	**364.38**	**421.72**
Normalized	86.86%	86.4%	100%
DDraceNetwork - 1920 x 1200 - Fullscreen - OpenGL 3.3 - Default - Multeasymap (FPS)	348.52	**336.74**	**355.73**
Normalized	97.97%	94.66%	100%
DDraceNetwork - 1920 x 1080 - Fullscreen - OpenGL 3.3 - Zoomed out - RaiNyMore2	147.14	**142.11**	**147.75**
Normalized	99.59%	96.18%	100%
DDraceNetwork - 1920 x 1200 - Fullscreen - OpenGL 3.3 - Zoomed out - RaiNyMore2	147.71	**145.21**	**161.68**
Normalized	91.36%	89.81%	100%
DDraceNetwork - 1920 x 1080 - Fullscreen - OpenGL 3.3 - Zoomed out - Multeasymap	**195.298790585**	**189.67**	194.94
Normalized	100%	97.12%	99.82%
DDraceNetwork - 1920 x 1200 - Fullscreen - OpenGL 3.3 - Zoomed out - Multeasymap	191.75	**188.97**	**198.03**
Normalized	96.83%	95.42%	100%
DDraceNetwork - 1920 x 1080 - Fullscreen - Vulkan - Default - RaiNyMore2 (FPS)	174.85	**166.29**	**230.58**
Normalized	75.83%	72.12%	100%
DDraceNetwork - 1920 x 1200 - Fullscreen - Vulkan - Default - RaiNyMore2 (FPS)	**1071**	1058	**1048**
Normalized	100%	98.86%	97.9%
DDraceNetwork - 1920 x 1080 - Fullscreen - Vulkan - Default - Multeasymap (FPS)	358.06	**357.69**	**371.66**
Normalized	96.34%	96.24%	100%
DDraceNetwork - 1920 x 1200 - Fullscreen - Vulkan - Default - Multeasymap (FPS)	531.76	**531.19**	**548.61**
Normalized	96.93%	96.82%	100%
DDraceNetwork - 1920 x 1080 - Fullscreen - Vulkan - Zoomed out - RaiNyMore2 (FPS)	**299.51**	**197.41**	209.25
Normalized	100%	65.91%	69.86%
DDraceNetwork - 1920 x 1200 - Fullscreen - Vulkan - Zoomed out - RaiNyMore2 (FPS)	776.20	**766.20**	**796.94**
Normalized	97.4%	96.14%	100%
OpenFOAM - d.S.M.S - Mesh Time (sec)	**102.13792**	99.810269	**97.367058**
Normalized	95.33%	97.55%	100%
OpenFOAM - d.S.M.S - Execution Time (sec)	732.31656	**734.00705**	**715.87334**
Normalized	97.75%	97.53%	100%

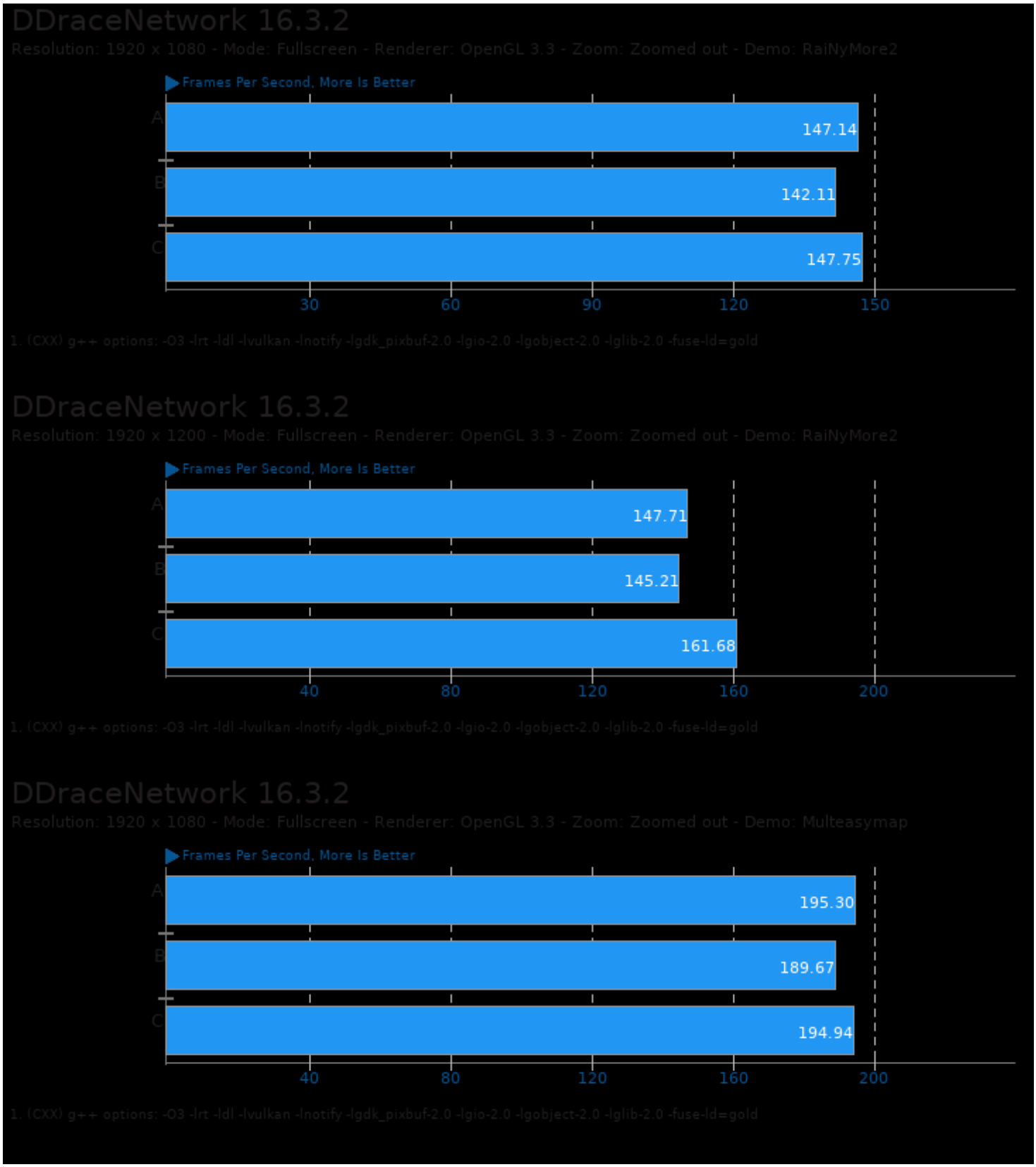
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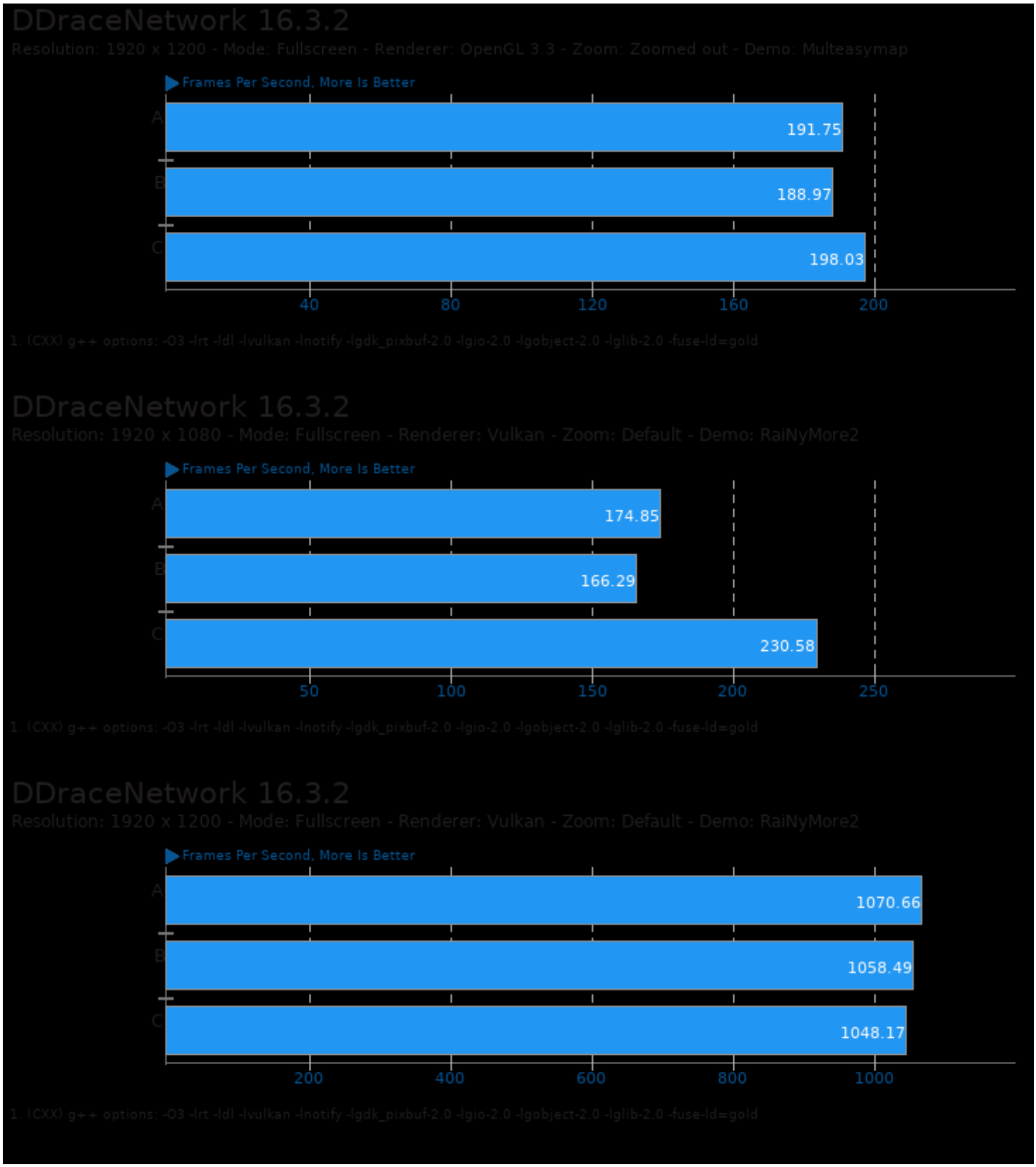
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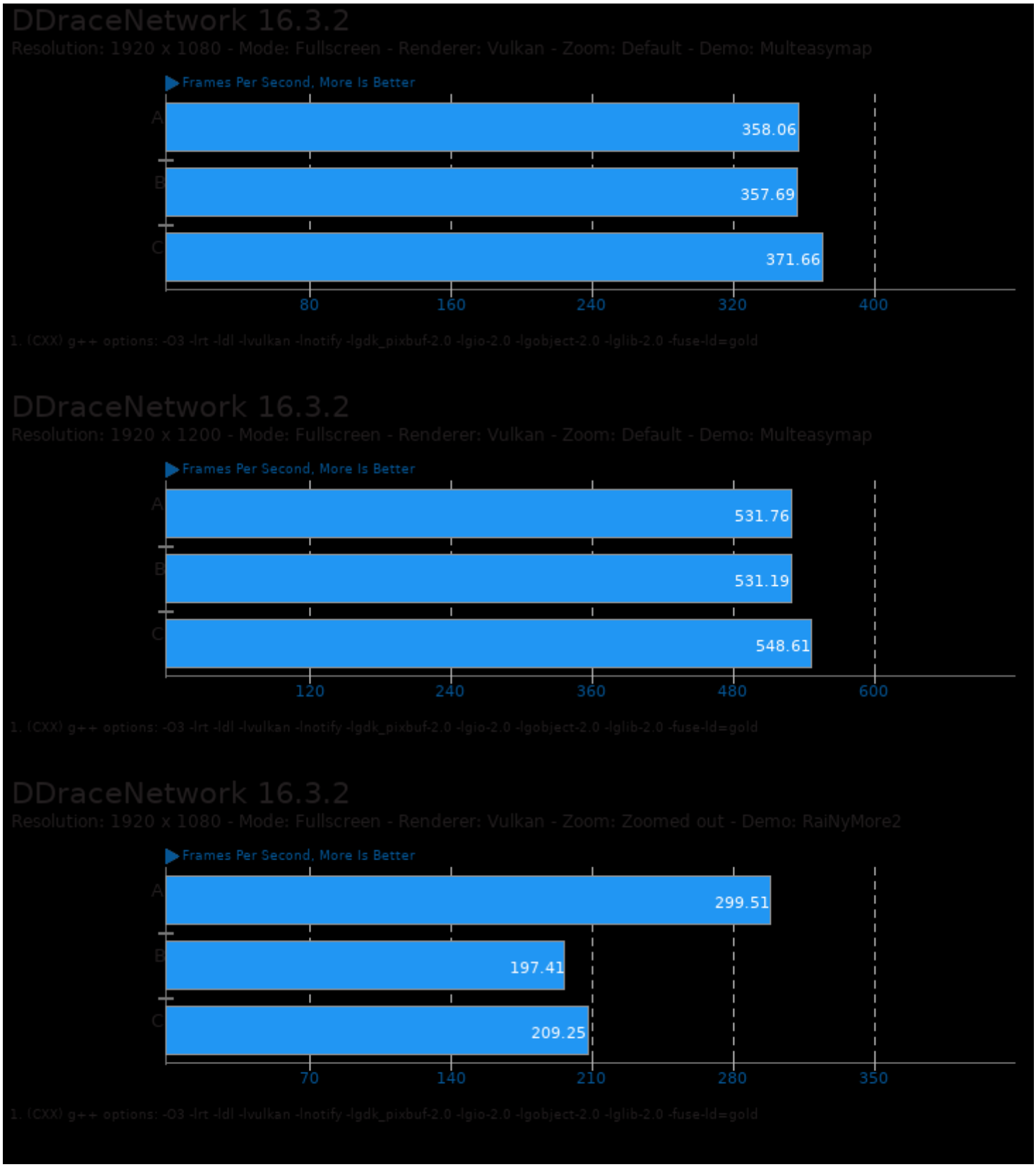
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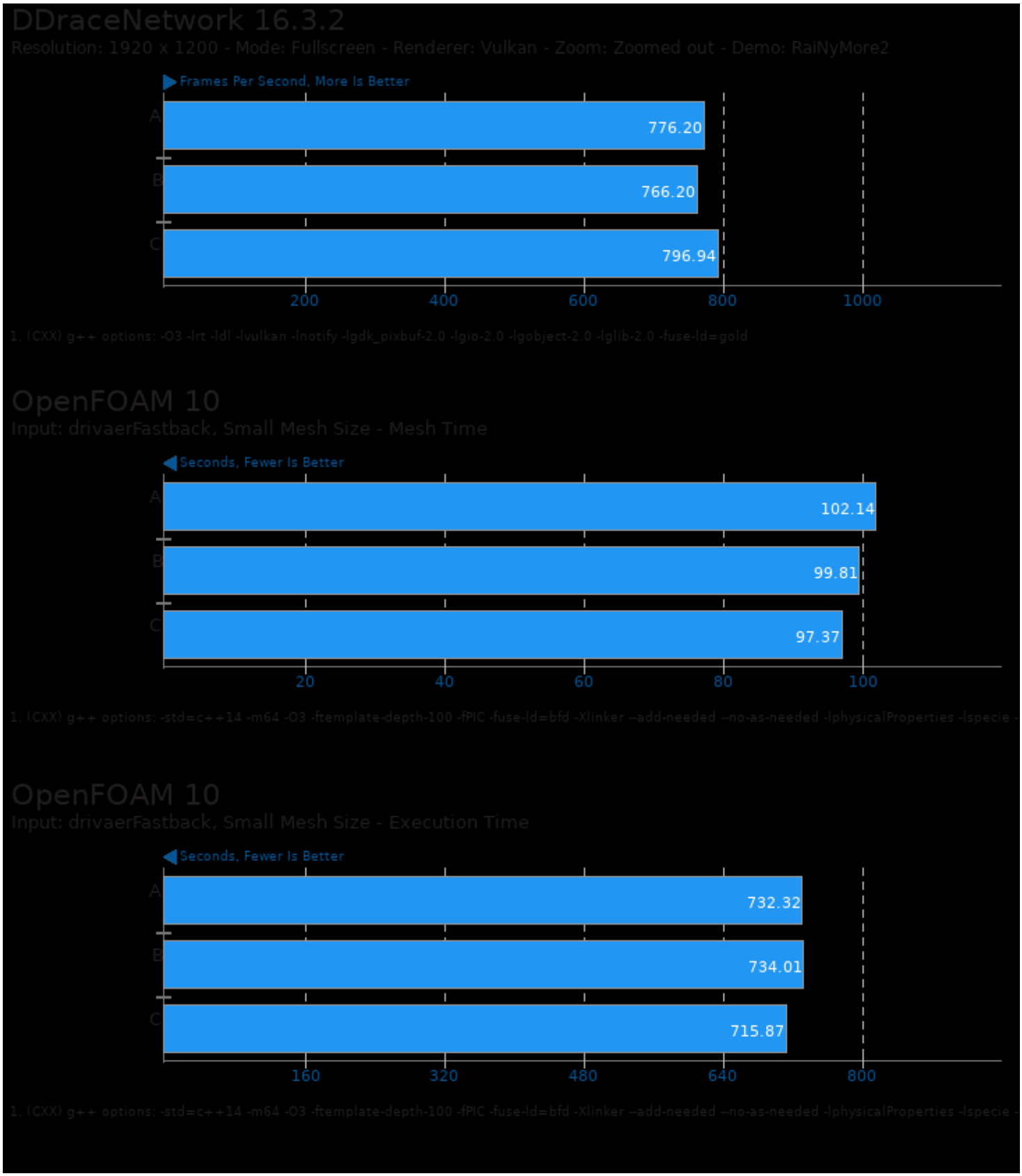
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