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Intel Core i7-1185G7 testing with a Dell 0DXP1F (3.7.0 BIOS) and Intel Xe TGL GT2 15GB on Ubuntu 22.04 via the Phoronix Test Suite.

Automated Executive Summary

A had the most wins, coming in first place for 38% of the tests.

Based on the geometric mean of all complete results, the fastest (C) was 1.011x the speed of the slowest (B). A was 1x the speed of C and B was 0.989x the speed of A.

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

DDraceNetwork (Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Default - Demo: RaiNyMore2) at 1.442x
DDraceNetwork (Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: Vulkan - Zoom: Zoomed out - Demo: Multeasymap) at 1.228x
DDraceNetwork (Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Default - Demo: Multeasymap) at 1.167x
DDraceNetwork (Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: Vulkan - Zoom: Default - Demo: RaiNyMore2) at 1.128x
DDraceNetwork (Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: Vulkan - Zoom: Zoomed out - Demo:

RaiNyMore2) at 1.118x
DDraceNetwork (Resolution: 1920 x 1200 - Mode: Fullscreen - Renderer: Vulkan - Zoom: Zoomed out - Demo: RaiNyMore2) at 1.074x
DDraceNetwork (Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: Vulkan - Zoom: Default - Demo: Multeasymap) at 1.04x
DDraceNetwork (Resolution: 1920 x 1200 - Mode: Fullscreen - Renderer: Vulkan - Zoom: Default - Demo: Multeasymap) at 1.036x
DDraceNetwork (Resolution: 1920 x 1200 - Mode: Fullscreen - Renderer: Vulkan - Zoom: Default - Demo: RaiNyMore2) at 1.031x
DDraceNetwork (Resolution: 1920 x 1200 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Default - Demo: Multeasymap) at 1.017x.

Test Systems:

A

B

C

Processor: Intel Core i7-1185G7 @ 4.80GHz (4 Cores / 8 Threads), Motherboard: Dell 0DXP1F (3.7.0 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 16GB, Disk: Micron 2300 NVMe 512GB, Graphics: Intel Xe TGL GT2 15GB (1350MHz), Audio: Realtek ALC289, Network: Intel Wi-Fi 6 AX201

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

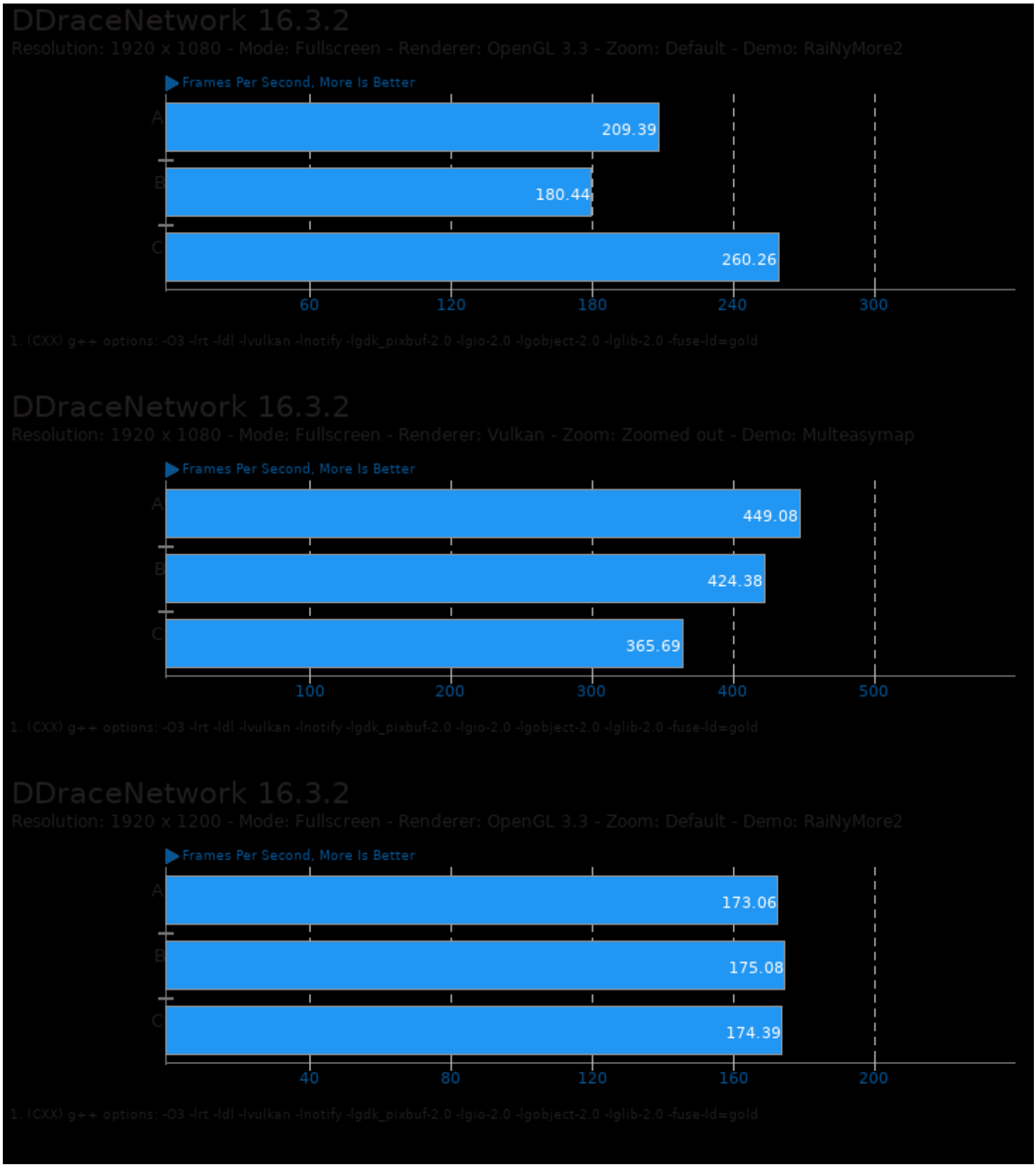
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --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: 0xa4 - Thermald 2.4.9
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + 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: Not affected + tsx_async_abort: Not affected

	A	B	C
DDraceNetwork - 1920 x 1080 - Fullscreen - OpenGL 3.3 - Default - RaiNyMore2 (FPS)	209.39	**180.44**	**260.26**
Normalized	80.45%	69.33%	100%

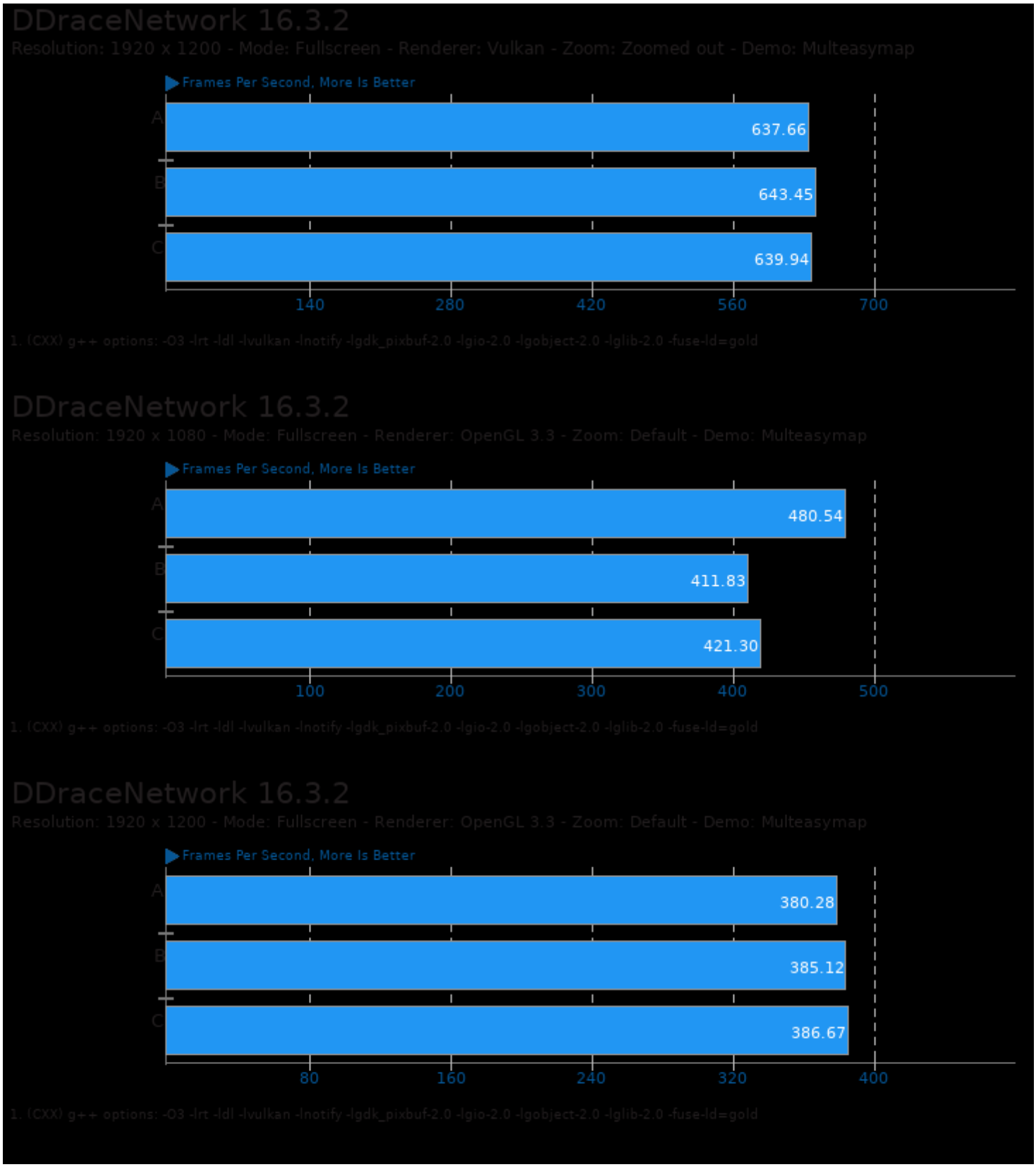
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DDraceNetwork - 1920 x 1080 - Fullscreen - Vulkan - Zoomed out - Multeasymap (FPS)	449.08	424.38	365.69
Normalized	100%	94.5%	81.43%
DDraceNetwork - 1920 x 1200 - Fullscreen - OpenGL 3.3 - Default - RaiNyMore2 (FPS)	173.06	175.08	174.39
Normalized	98.85%	100%	99.61%
DDraceNetwork - 1920 x 1200 - Fullscreen - Vulkan - Zoomed out - Multeasymap (FPS)	637.66	643.45	639.94
Normalized	99.1%	100%	99.45%
DDraceNetwork - 1920 x 1080 - Fullscreen - OpenGL 3.3 - Default - Multeasymap (FPS)	480.54	411.83	421.30
Normalized	100%	85.7%	87.67%
DDraceNetwork - 1920 x 1200 - Fullscreen - OpenGL 3.3 - Default - Multeasymap (FPS)	380.28	385.12	386.67
Normalized	98.35%	99.6%	100%
DDraceNetwork - 1920 x 1080 - Fullscreen - OpenGL 3.3 - Zoomed out - RaiNyMore2	194.95	196.16	196.59
Normalized	99.17%	99.78%	100%
DDraceNetwork - 1920 x 1200 - Fullscreen - OpenGL 3.3 - Zoomed out - RaiNyMore2	189.25	189.96	189.66
Normalized	99.63%	100%	99.84%
DDraceNetwork - 1920 x 1080 - Fullscreen - OpenGL 3.3 - Zoomed out - Multeasymap	232.06	232.43	231.83
Normalized	99.84%	100%	99.74%
DDraceNetwork - 1920 x 1200 - Fullscreen - OpenGL 3.3 - Zoomed out - Multeasymap	223.06	223.04	222.60
Normalized	100%	99.99%	99.79%
DDraceNetwork - 1920 x 1080 - Fullscreen - Vulkan - Default - RaiNyMore2 (FPS)	174.59	196.86	178.08
Normalized	88.69%	100%	90.46%
DDraceNetwork - 1920 x 1200 - Fullscreen - Vulkan - Default - RaiNyMore2 (FPS)	1351	1377	1336
Normalized	98.11%	100%	96.98%
DDraceNetwork - 1920 x 1080 - Fullscreen - Vulkan - Default - Multeasymap (FPS)	437.71	420.91	421.25
Normalized	100%	96.16%	96.24%
DDraceNetwork - 1920 x 1200 - Fullscreen - Vulkan - Default - Multeasymap (FPS)	738.31	712.96	721.77
Normalized	100%	96.57%	97.76%
DDraceNetwork - 1920 x 1080 - Fullscreen - Vulkan - Zoomed out - RaiNyMore2 (FPS)	203.42	225.71	227.36
Normalized	89.47%	99.27%	100%
DDraceNetwork - 1920 x 1200 - Fullscreen - Vulkan - Zoomed out - RaiNyMore2 (FPS)	1200	1148	1233
Normalized	97.3%	93.08%	100%
OpenFOAM - d.S.M.S - Mesh Time (sec)	74.601229	74.66807	74.632692
Normalized	100%	99.91%	99.96%
OpenFOAM - d.S.M.S - Execution Time (sec)	541.0489	541.09863	541.19392
Normalized	100%	99.99%	99.97%

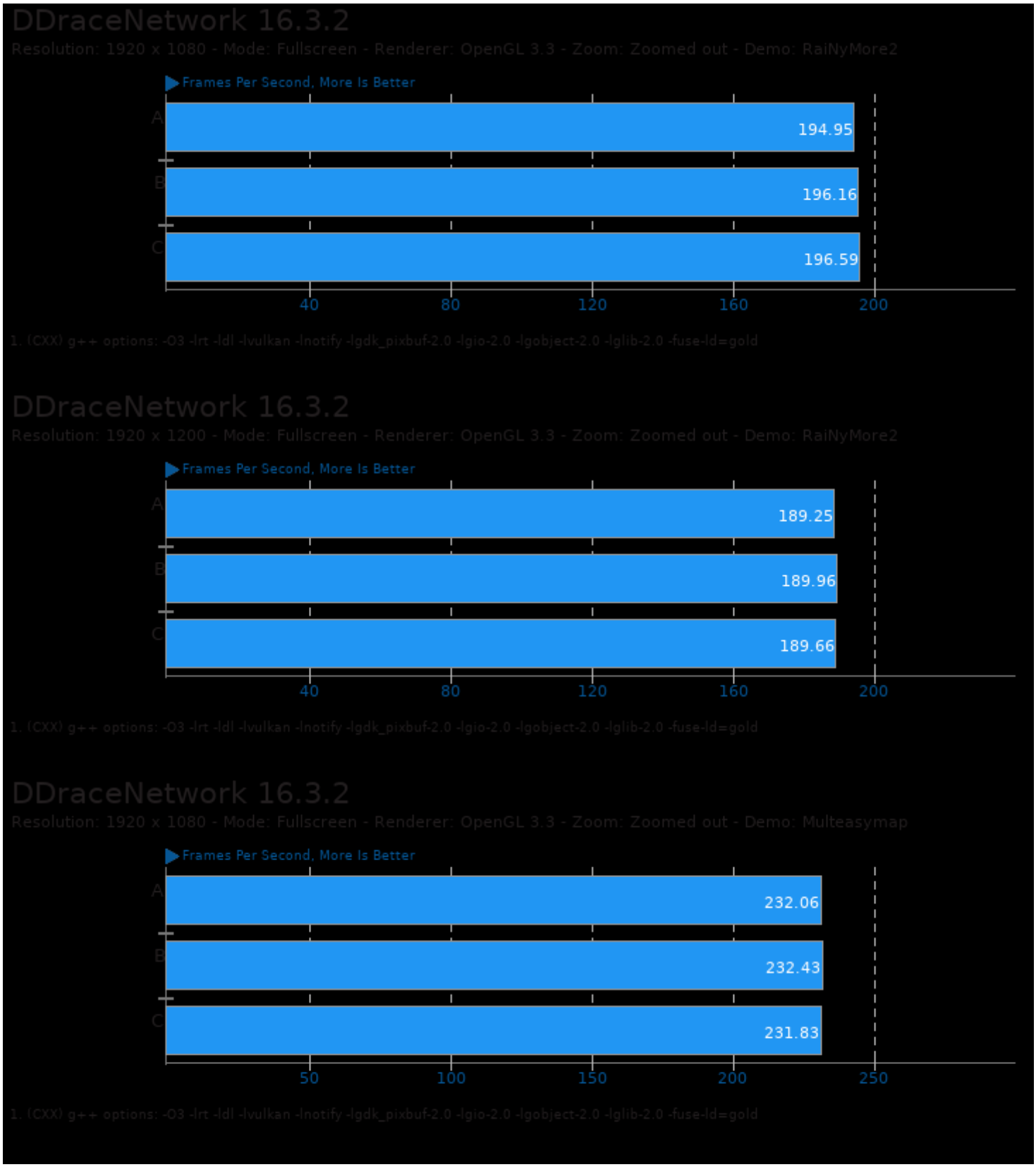
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DDraceNetwork 16.3.2
Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Default - Demo: RaiNyMore2
Frames Per Second, More Is Better
A
209.39
B
180.44
C
260.26
60
120
180
240
300
1. (CXX) g++ options: -O3 -lrt -ldl -lvulkan -lnotify -lgdk_pixbuf-2.0 -lgio-2.0 -lgobject-2.0 -lglib-2.0 -fuse-ld=gold
DDraceNetwork 16.3.2
Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: Vulkan - Zoom: Zoomed out - Demo: Multeasymap
Frames Per Second, More Is Better
A
449.08
B
424.38
C
365.69
100
200
300
400
500
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Frames Per Second, More Is Better
A
173.06
B
175.08
C
174.39
40
80
120
160
200
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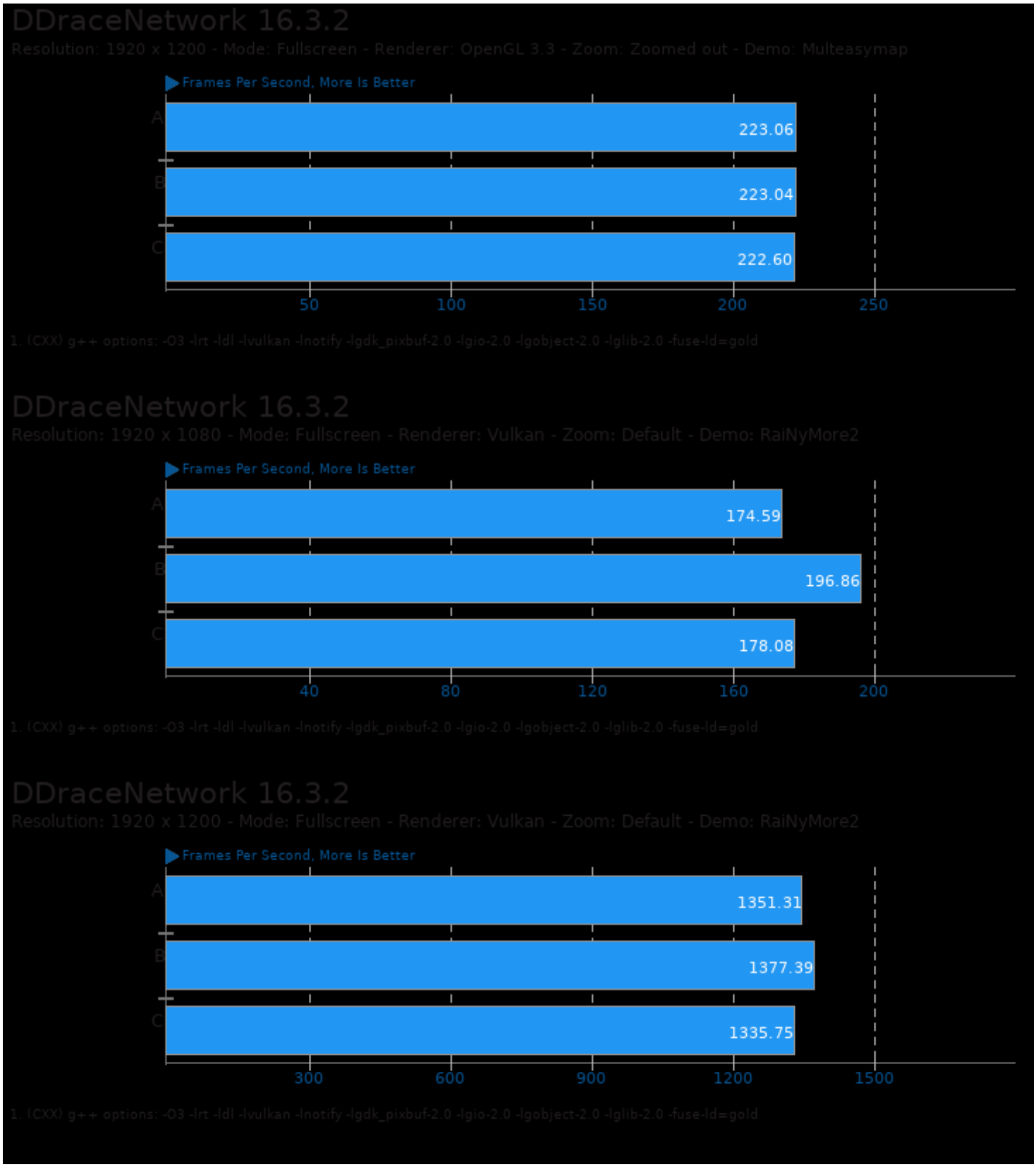
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DDraceNetwork 16.3.2
Resolution: 1920 x 1200 - Mode: Fullscreen - Renderer: Vulkan - Zoom: Zoomed out - Demo: Multeasymap
Frames Per Second, More Is Better
A
637.66
B
643.45
C
639.94
140
280
420
560
700
1. (CXX) g++ options: -O3 -lrt -ldl -lvulkan -lnotify -lgdk_pixbuf-2.0 -lgio-2.0 -lgobject-2.0 -lglib-2.0 -fuse-ld=gold
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Frames Per Second, More Is Better
A
380.28
B
385.12
C
386.67
80
160
240
320
400
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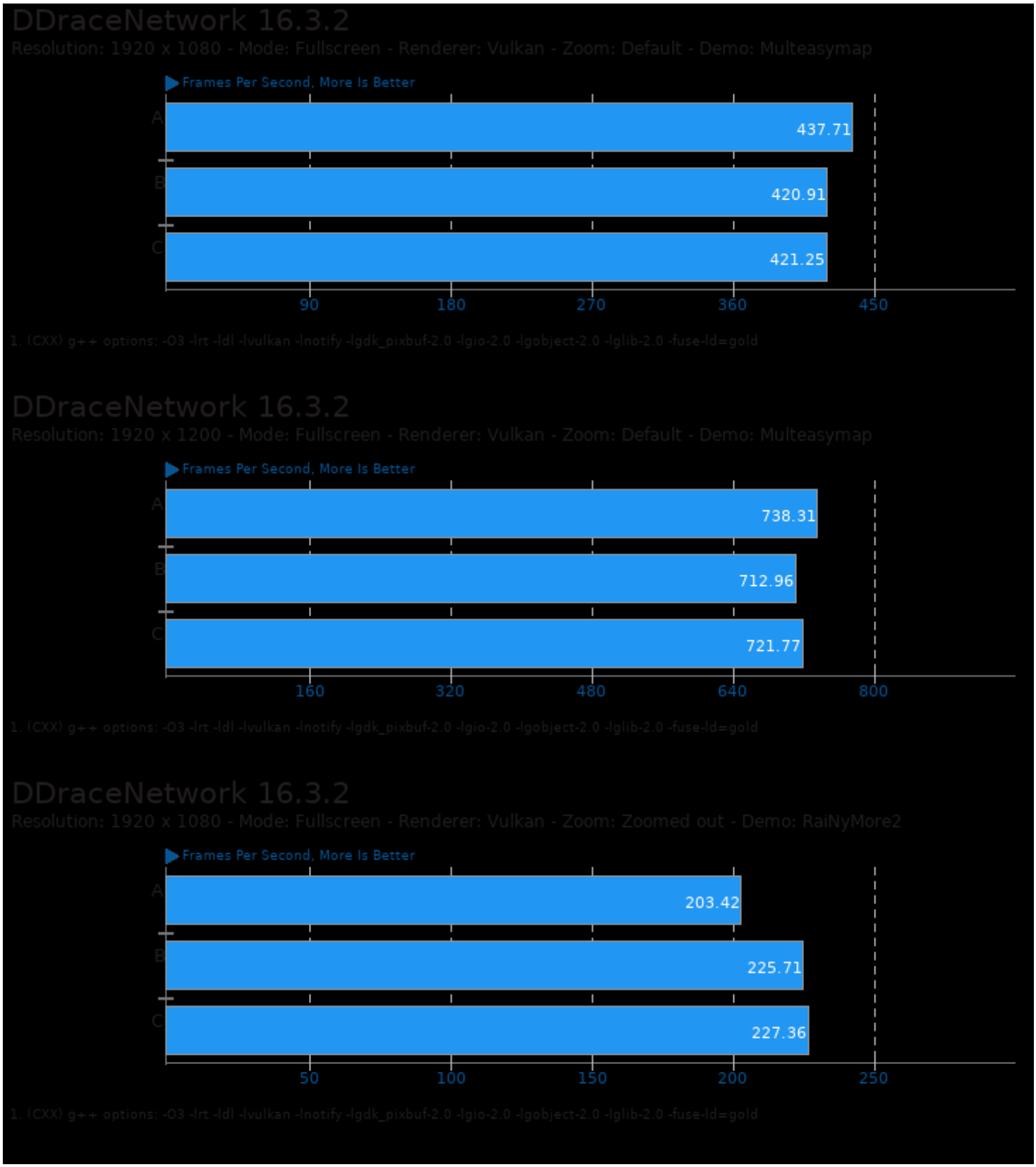
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DDraceNetwork 16.3.2
Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Zoomed out - Demo: RaiNyMore2
Frames Per Second, More Is Better
A
B
C
194.95
196.16
196.59
40
80
120
160
200
1. (CXX) g++ options: -O3 -lrt -ldl -lvulkan -lnotify -lgdk_pixbuf-2.0 -lgio-2.0 -lgobject-2.0 -lglib-2.0 -fuse-ld=gold
DDraceNetwork 16.3.2
Resolution: 1920 x 1200 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Zoomed out - Demo: RaiNyMore2
Frames Per Second, More Is Better
A
B
C
189.25
189.96
189.66
40
80
120
160
200
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Resolution: 1920 x 1080 - Mode: Fullscreen - Renderer: OpenGL 3.3 - Zoom: Zoomed out - Demo: Multeasymap
Frames Per Second, More Is Better
A
B
C
232.06
232.43
231.83
50
100
150
200
250
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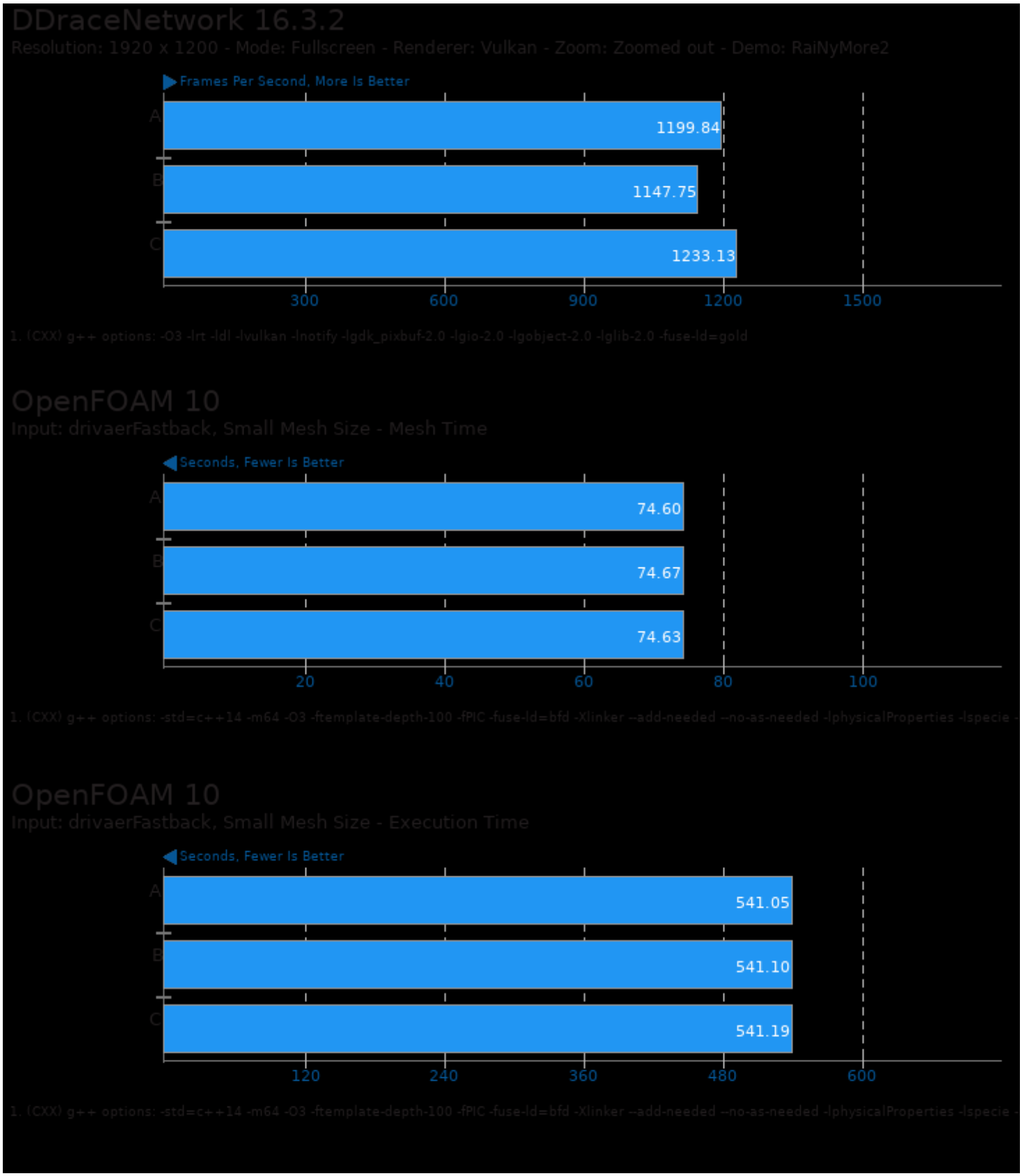
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1351.31
B
1377.39
C
1335.75
300
600
900
1200
1500
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C
421.25
90
180
270
360
450
1. (CXX) g++ options: -O3 -lrt -ldl -lvulkan -lnotify -lgdk_pixbuf-2.0 -lgio-2.0 -lgobject-2.0 -lglib-2.0 -fuse-ld=gold
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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 07:01.