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AMD Ryzen 5 4500U testing with a LENOVO LNVNB161216 (EECN20WW BIOS) and AMD Renoir 512MB on Ubuntu 20.10 via the Phoronix Test Suite.

Test Systems:

1

2

3

4

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

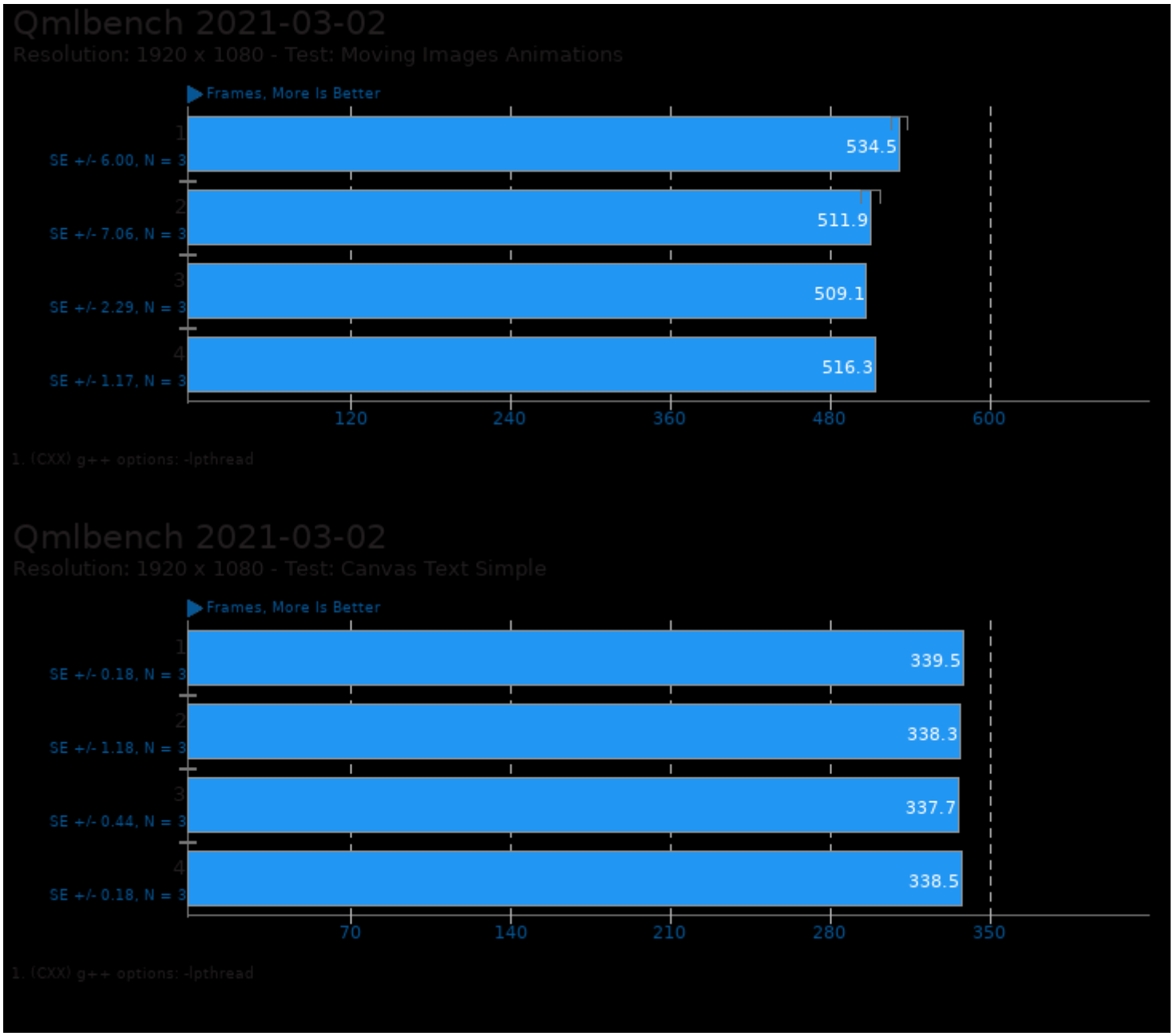
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OS: Ubuntu 20.10, Kernel: 5.11.0-051100daily20210228-generic (x86_64), Desktop: GNOME Shell 3.38.2, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 21.1.0-devel (git-e014e3b 2021-01-31 groovy-oibaf-ppa) (LLVM 11.0.1), Vulkan: 1.2.145, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 1920x1080

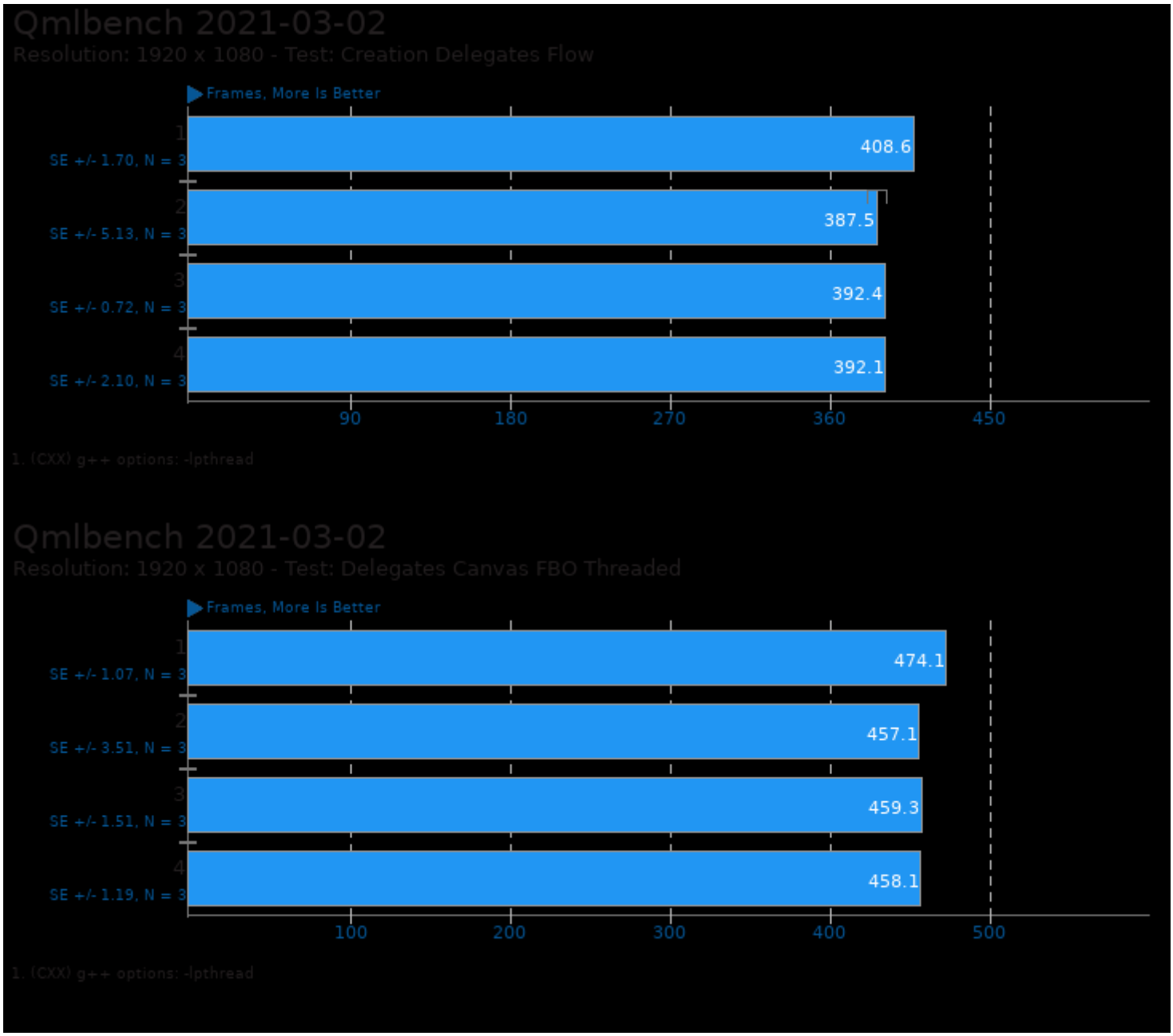
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/usr,hsa --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-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: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0x8600102 - ACPI Profile: balanced
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	4
Qmlbench - 1920 x 1080 - M.I.A (Frames)	**534.5**	511.9	**509.1**	516.3
Normalized	100%	95.77%	95.25%	96.59%
Standard Deviation	1.9%	2.4%	0.8%	0.4%
Qmlbench - 1920 x 1080 - Canvas Text Simple (Frames)	**339.5**	338.3	**337.7**	338.5
Normalized	100%	99.65%	99.47%	99.71%
Standard Deviation	0.1%	0.6%	0.2%	0.1%
Qmlbench - 1920 x 1080 - C.D.F (Frames)	**408.6**	**387.5**	392.4	392.1
Normalized	100%	94.84%	96.04%	95.96%
Standard Deviation	0.7%	2.3%	0.3%	0.9%
Qmlbench - 1920 x 1080 - D.C.F.T (Frames)	**474.1**	**457.1**	459.3	458.1
Normalized	100%	96.41%	96.88%	96.63%
Standard Deviation	0.4%	1.3%	0.6%	0.4%
Qmlbench - 1920 x 1080 - C.O.I (Frames)	**3453**	3424	**3421**	3437
Normalized	100%	99.14%	99.08%	99.52%
Standard Deviation	0.3%	0.3%	0.2%	0.3%
Qmlbench - 1920 x 1080 - D.C.F.T (Frames)	**646.3**	628.2	625.9	**618.6**
Normalized	100%	97.2%	96.84%	95.71%
Standard Deviation	1.8%	0.6%	1%	1.4%
Qmlbench - 1920 x 1080 - Fib10 (Frames)	**1432**	1420	**1411**	1422
Normalized	100%	99.16%	98.5%	99.29%
Standard Deviation	0.9%	0.6%	0.5%	0.7%

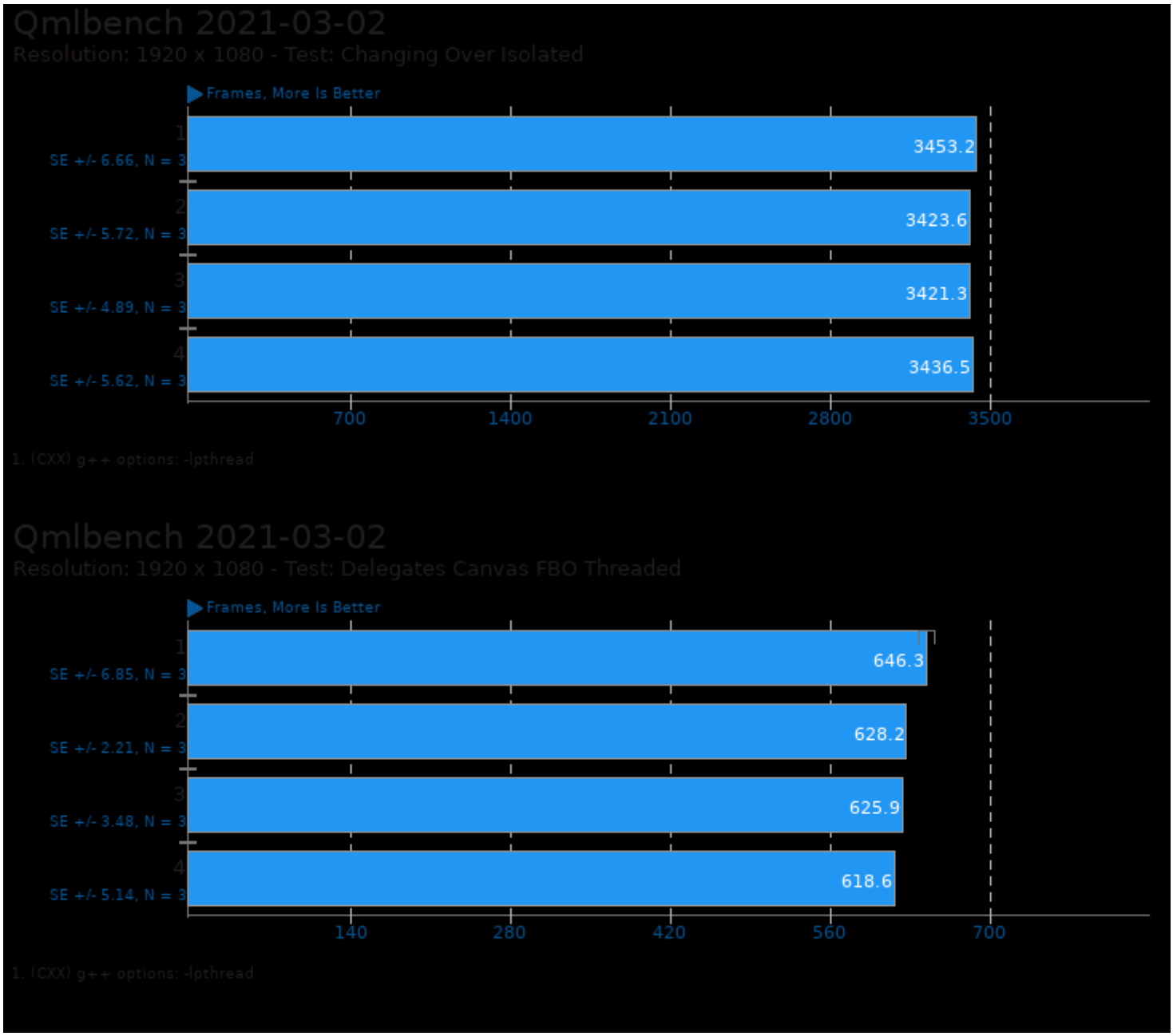
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Qmlbench 2021-03-02
Resolution: 1920 x 1080 - Test: Moving Images Animations
Frames, More Is Better
1
SE +/- 6.00, N = 3
534.5
2
SE +/- 7.06, N = 3
511.9
3
SE +/- 2.29, N = 3
509.1
4
SE +/- 1.17, N = 3
516.3
120
240
360
480
600
1. (CXX) g++ options: -lpthread
Qmlbench 2021-03-02
Resolution: 1920 x 1080 - Test: Canvas Text Simple
Frames, More Is Better
1
SE +/- 0.18, N = 3
339.5
2
SE +/- 1.18, N = 3
338.3
3
SE +/- 0.44, N = 3
337.7
4
SE +/- 0.18, N = 3
338.5
70
140
210
280
350
1. (CXX) g++ options: -lpthread

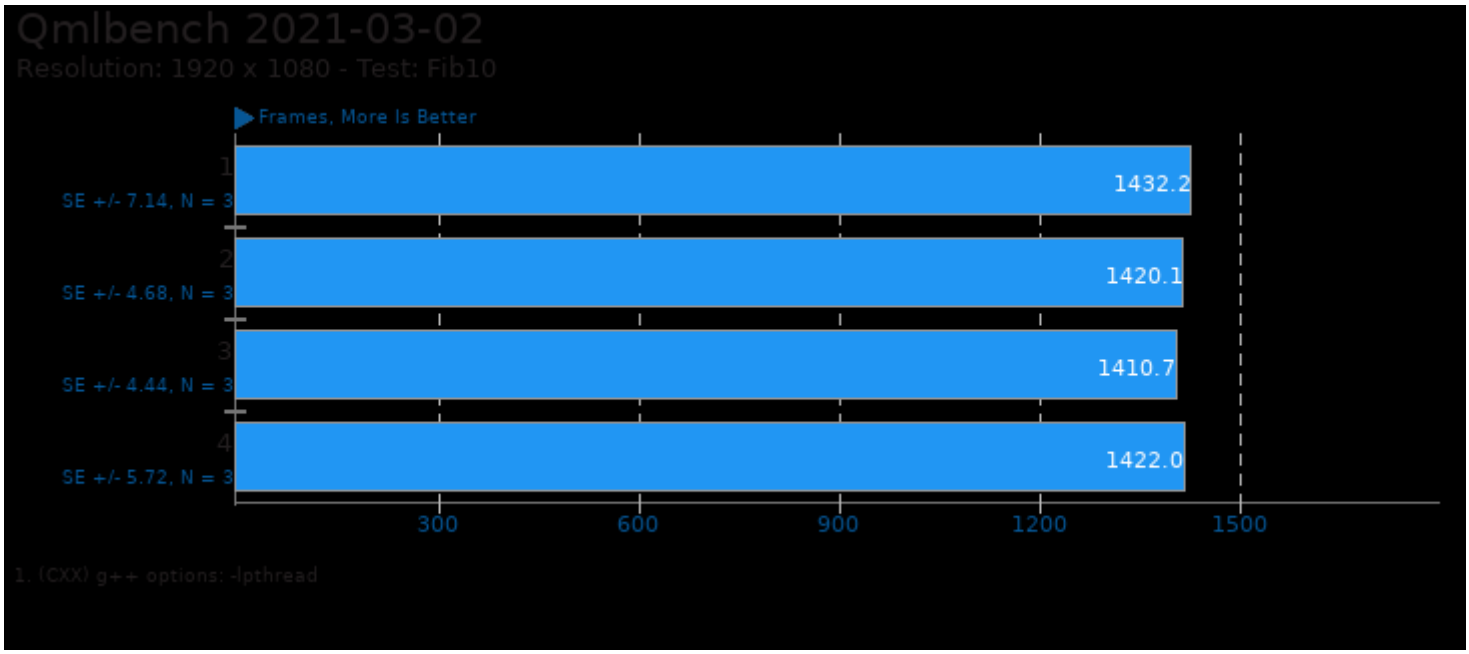
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Qmlbench 2021-03-02
Resolution: 1920 x 1080 - Test: Creation Delegates Flow
Frames, More Is Better
1
SE +/- 1.70, N = 3
408.6
2
SE +/- 5.13, N = 3
387.5
3
SE +/- 0.72, N = 3
392.4
4
SE +/- 2.10, N = 3
392.1
90
180
270
360
450
1. (CXX) g++ options: -lpthread
Qmlbench 2021-03-02
Resolution: 1920 x 1080 - Test: Delegates Canvas FBO Threaded
Frames, More Is Better
1
SE +/- 1.07, N = 3
474.1
2
SE +/- 3.51, N = 3
457.1
3
SE +/- 1.51, N = 3
459.3
4
SE +/- 1.19, N = 3
458.1
100
200
300
400
500
1. (CXX) g++ options: -lpthread

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Qmlbench 2021-03-02
Resolution: 1920 x 1080 - Test: Changing Over Isolated
Frames, More Is Better
1
SE +/- 6.66, N = 3
3453.2
2
SE +/- 5.72, N = 3
3423.6
3
SE +/- 4.89, N = 3
3421.3
4
SE +/- 5.62, N = 3
3436.5
700
1400
2100
2800
3500
1. (CXX) g++ options: -lpthread
Qmlbench 2021-03-02
Resolution: 1920 x 1080 - Test: Delegates Canvas FBO Threaded
Frames, More Is Better
1
SE +/- 6.85, N = 3
646.3
2
SE +/- 2.21, N = 3
628.2
3
SE +/- 3.48, N = 3
625.9
4
SE +/- 5.14, N = 3
618.6
140
280
420
560
700
1. (CXX) g++ options: -lpthread

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 16:19.