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OpenCL New Beta AMDGPU-PRO 17.40 +2MB FS

Radeon R9 390 FX-8350

Automated Executive Summary

Radeon RX Vega 64 had the most wins, coming in first place for 75% of the tests.

Based on the geometric mean of all complete results, the fastest (Radeon RX Vega 64) was 4.001x the speed of the slowest (GeForce GTX 1050).

Test Systems:

GeForce GTX 1050

Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: 128GB THNSN5128GPU7 TOSHIBA, Graphics: Zotac NVIDIA GeForce GTX 1050 2048MB (1354/3504MHz), Audio: Realtek ALC892, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.10.0-37-generic (x86_64), Desktop: Unity 7.4.0, Display Driver: NVIDIA 387.12, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 9.1.0, Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 3840x2160

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate performance
OpenCL Notes: GPU Compute Cores: 640
System Notes: GPU Compute Cores: 640.

GeForce GTX 1050 TI

Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: 128GB THNSN5128GPU7 TOSHIBA, Graphics: eVGA NVIDIA GeForce GTX 1050 Ti 4096MB (1354/3504MHz), Audio: Realtek ALC892, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.10.0-37-generic (x86_64), Desktop: Unity 7.4.0, Display Driver: NVIDIA 387.12, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 9.1.0, Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 3840x2160

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate performance
OpenCL Notes: GPU Compute Cores: 768
System Notes: GPU Compute Cores: 768.

GeForce GTX 1060

Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: 128GB THNSN5128GPU7 TOSHIBA, Graphics: NVIDIA GeForce GTX 1060 6GB 6144MB (1506/4006MHz), Audio: Realtek ALC892, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.10.0-37-generic (x86_64), Desktop: Unity 7.4.0, Display Driver: NVIDIA 387.12, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 9.1.0, Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 3840x2160

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate performance
OpenCL Notes: GPU Compute Cores: 1280
System Notes: GPU Compute Cores: 1280.

GeForce GTX 1070

Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: 128GB THNSN5128GPU7 TOSHIBA, Graphics: NVIDIA GeForce GTX 1070 8192MB (1506/4006MHz), Audio: Realtek ALC892, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.10.0-37-generic (x86_64), Desktop: Unity 7.4.0, Display Driver: NVIDIA 387.12, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 9.1.0, Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 3840x2160

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate performance
OpenCL Notes: GPU Compute Cores: 1920
System Notes: GPU Compute Cores: 1920.

GeForce GTX 1080

Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: 128GB THNSN5128GPU7 TOSHIBA, Graphics: NVIDIA GeForce GTX 1080 8192MB (1607/5005MHz), Audio: Realtek ALC892, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.10.0-37-generic (x86_64), Desktop: Unity 7.4.0, Display Driver: NVIDIA 387.12, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 9.1.0, Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 3840x2160

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate performance
OpenCL Notes: GPU Compute Cores: 2560
System Notes: GPU Compute Cores: 2560.

GeForce GTX 1080 Ti

Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: 128GB THNSN5128GPU7 TOSHIBA, Graphics: NVIDIA GeForce GTX 1080 Ti 11264MB (1480/5508MHz), Audio: Realtek ALC892, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.10.0-37-generic (x86_64), Desktop: Unity 7.4.0, Display Driver: NVIDIA 387.12, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 9.1.0, Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 3840x2160

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate performance
OpenCL Notes: GPU Compute Cores: 3584
System Notes: GPU Compute Cores: 3584.

Radeon RX 560

Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: 128GB THNSN5128GPU7 TOSHIBA, Graphics: AMD Radeon RX 560 4096MB, Audio: Realtek ALC892, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.10.0-37-generic (x86_64), Desktop: Unity 7.4.0, Display Driver: amdgpu 1.3.99, OpenGL: 4.5.13496, OpenCL: OpenCL 2.0 AMD-APP (2482.3), Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: amdgpu.vm_fragment_size=9
Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate performance
Graphics Notes: GLAMOR

Radeon RX 580

Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: 128GB THNSN5128GPU7 TOSHIBA, Graphics: MSI AMD Radeon RX 580 8192MB, Audio: Realtek ALC892, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.10.0-37-generic (x86_64), Desktop: Unity 7.4.0, Display Driver: modesetting 1.19.3, OpenGL: 4.5.13496, OpenCL: OpenCL 2.0 AMD-APP (2482.3), Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: amdgpu.vm_fragment_size=9
Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate performance
Graphics Notes: GLAMOR

Radeon R9 Fury

Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: 128GB THNSN5128GPU7 TOSHIBA, Graphics: Sapphire AMD Radeon 4096MB, Audio: Realtek ALC892, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.10.0-37-generic (x86_64), Desktop: Unity 7.4.0, Display Driver: modesetting 1.19.3, OpenGL: 4.5.13496, OpenCL: OpenCL 2.0 AMD-APP (2482.3), Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: amdgpu.vm_fragment_size=9
Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate performance
Graphics Notes: GLAMOR

Radeon RX Vega 56

Radeon RX Vega 64

Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: 128GB THNSN5128GPU7 TOSHIBA, Graphics: AMD Radeon RX Vega 8176MB, Audio: Realtek ALC892, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

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OS: Ubuntu 16.04, Kernel: 4.10.0-37-generic (x86_64), Desktop: Unity 7.4.0, Display Driver: amdgpu 1.3.99, OpenGL: 4.5.13496, OpenCL: OpenCL 2.0 AMD-APP (2482.3), Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: amdgpu.vm_fragment_size=9
Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate performance
Graphics Notes: GLAMOR

Radeon R9 390

Radeon R9 390 v2

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (4 Cores / 8 Threads), Motherboard: ASRock 970DE3/U3S3, Chipset: AMD RX780/RX790 + SB7x0/SB8x0/SB9x0, Memory: 32768MB, Disk: 128GB ADATA SP600 + 128GB OCZ AGILITY4 + 480GB TS480GSSD220S, Graphics: XFX AMD Radeon R9 290 8192MB, Audio: Realtek ALC662 rev1, Monitor: VG2732 + DELL P2714H, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.10.0-38-generic (x86_64), Desktop: Unity 7.4.0, Display Driver: modesetting 1.19.5, OpenGL: 4.5.13496, OpenCL: OpenCL 2.0 AMD-APP (2348.3), Compiler: GCC 5.4.1 20160904 + Clang 3.8.0-2ubuntu4 + LLVM 3.8.0, File-System: ext4, Screen Resolution: 3840x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq performance
Graphics Notes: GLAMOR

	GeForce GTX 1050	GeForce GTX 1050 TI	GeForce GTX 1060	GeForce GTX 1070	GeForce GTX 1080	GeForce GTX 1080 Ti	Radeon RX 560	Radeon RX 580	Radeon R9 Fury	Radeon RX Vega 56	Radeon RX Vega 64	Radeon R9 390	Radeon R9 390 v2
cl-mem - Copy (GB/s)	86.23	86.87	139.10	186.07	210.03	317.20	**77.07**	173.20	330.10	306.63	**363.77**	290.93	290.00
Normalized	23.7%	23.88%	38.24%	51.15%	57.74%	87.2%	21.19%	47.61%	90.74%	84.29%	100%	79.98%	79.72%
Standard Deviation	1.1%	0.2%	0.1%	0.4%	0.6%	0.1%	1.2%	0.8%	0.8%	0.9%	0%	0.2%	0.2%
cl-mem - Read (GB/s)	95	94.23	153.53	205.37	228.97	338.63	**90.20**	208.33	**447.90**	337.00	397.50	283.60	274.70
Normalized	21.21%	21.04%	34.28%	45.85%	51.12%	75.6%	20.14%	46.51%	100%	75.24%	88.75%	63.32%	61.33%
Standard Deviation		0.1%	0%	0.1%	0.1%	0.1%	1.3%	0.2%	0%	0.9%	0%	0.7%	1.7%
cl-mem - Write (GB/s)	85.63	84.60	139.43	191.30	214.97	335.33	**80.30**	177.97	374.07	321.60	**378.23**	248.80	251.03
Normalized	22.64%	22.37%	36.86%	50.58%	56.84%	88.66%	21.23%	47.05%	98.9%	85.03%	100%	65.78%	66.37%
Standard Deviation	0.1%	0.1%	0%	0.1%	0.1%	0.1%	0.1%	0.3%	1.2%	0%	0%	0.6%	0.5%

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Ethereum Ethminer - GPU OpenCL (H/s)	114120 01	116828 83	187170 81	253172 84	207050 07	314616 48	**109124 72**	219632 98	254454 44	293703 21	**323092 47**		244259 95
Normalized	35.32%	36.16%	57.93%	78.36%	64.08%	97.38%	33.78%	67.98%	78.76%	90.9%	100%		75.6%
Standard Deviation	0.7%	0.7%	0.5%	0.7%	0.7%	1.2%	0.6%	0.4%	0.7%	0.8%	2.4%		0.1%
FAHBench (Ns/Day)	50.34	59.15	98.57	133.79	147.18	**183.24**	**30.37**	46.82	47.83	65.13	77.38	62.01	62.11
Normalized	27.47%	32.28%	53.79%	73.01%	80.32%	100%	16.57%	25.55%	26.1%	35.54%	42.23%	33.84%	33.9%
Standard Deviation	0%	0.1%	0.2%	0.3%	0.7%	6.1%	2.4%	0.3%	2.9%	0.3%	2.4%	0.6%	0.8%
LuxMark - GPU - Hotel (Score)	**382**	469	805	1187	1459	2054	1090	2529	2468	3708	**4244**	2036	2037
Normalized	9%	11.05%	18.97%	27.97%	34.38%	48.4%	25.68%	59.59%	58.15%	87.37%	100%	47.97%	48%
Standard Deviation	0.2%	0.1%	0.8%		0%	0.9%	0.4%	0.3%	0.6%	1%	0.6%	0.1%	0.1%
LuxMark - GPU - Microphone (Score)	3399	3724	5321	7459	6478	10085	**3036**	7312	8265	11087	**12396**	6641	6654
Normalized	27.42%	30.04%	42.93%	60.17%	52.26%	81.36%	24.49%	58.99%	66.67%	89.44%	100%	53.57%	53.68%
Standard Deviation	0.1%	0%	0.1%	0.1%	0%	0.1%	0.9%	0.1%	0.1%	0.1%	1.1%	0.3%	0%
LuxMark - GPU - Luxball HDR (Score)	6565	7298	11600	16181	12943	20126	**6314**	14622	20764	21543	**22178**	16782	16825
Normalized	29.6%	32.91%	52.3%	72.96%	58.36%	90.75%	28.47%	65.93%	93.62%	97.14%	100%	75.67%	75.86%
Standard Deviation	0.4%	0.4%	0%	0%	0.1%	0.6%	0.2%	0.7%	0.9%	0%	1.5%	0.5%	0%

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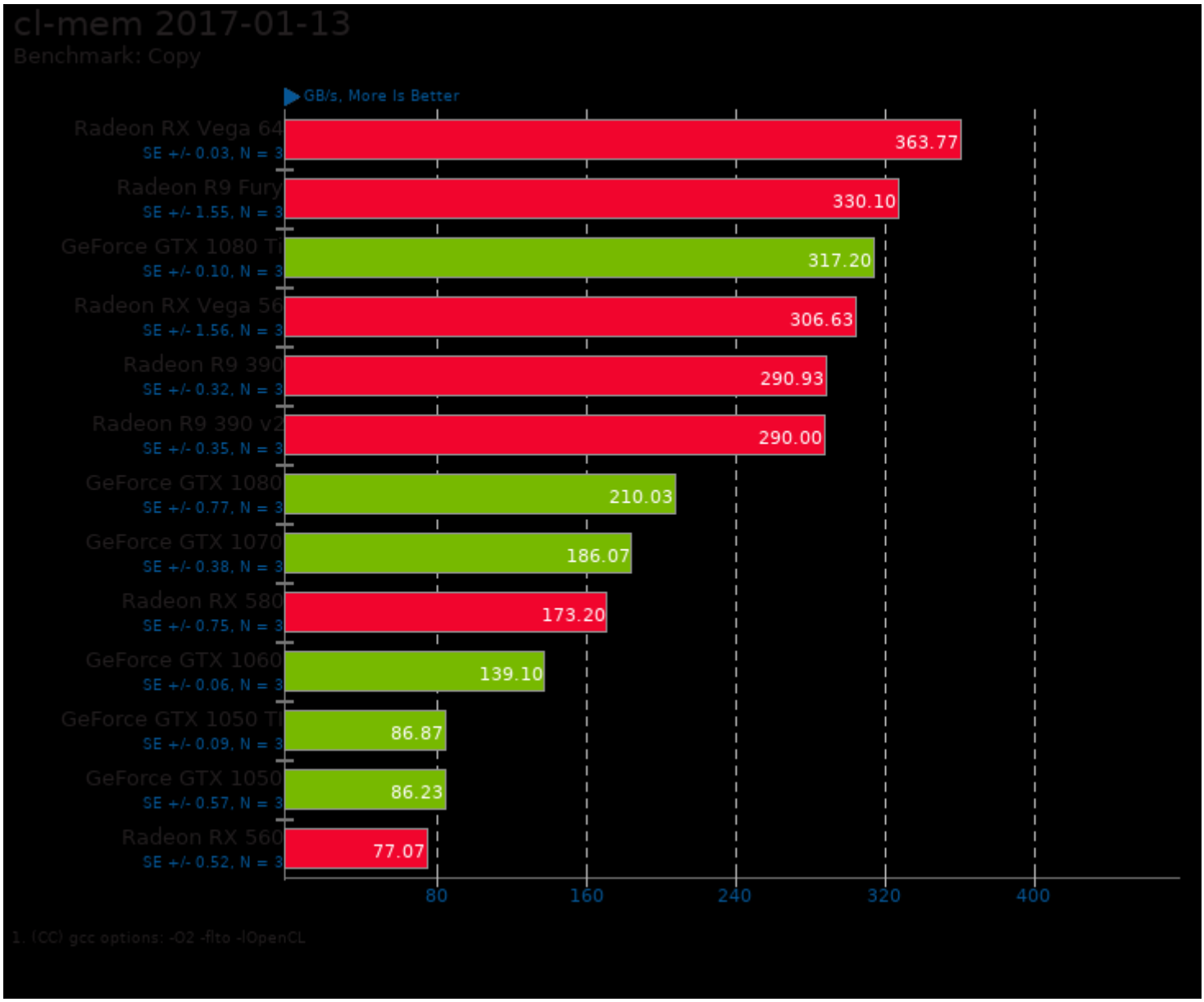

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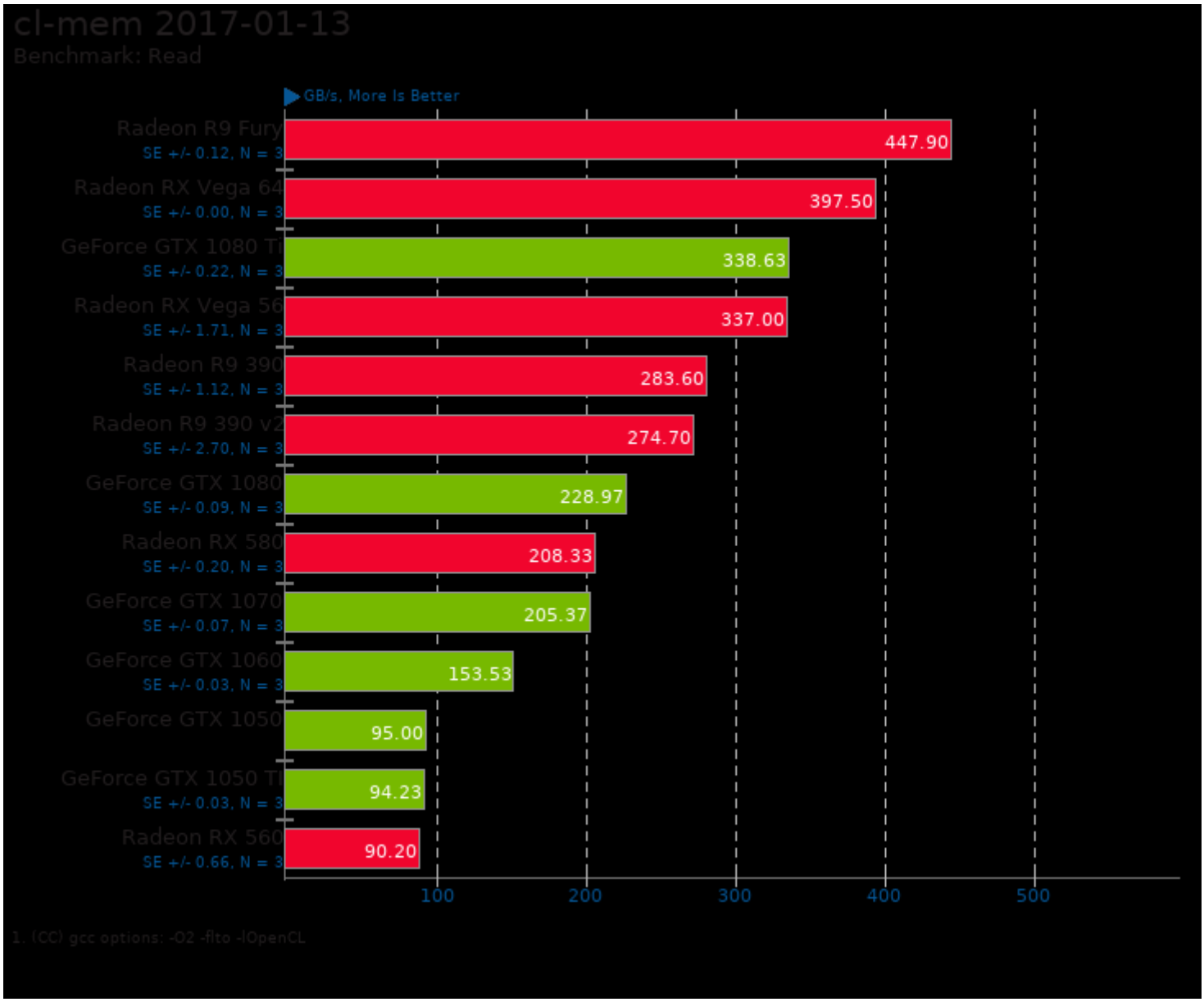

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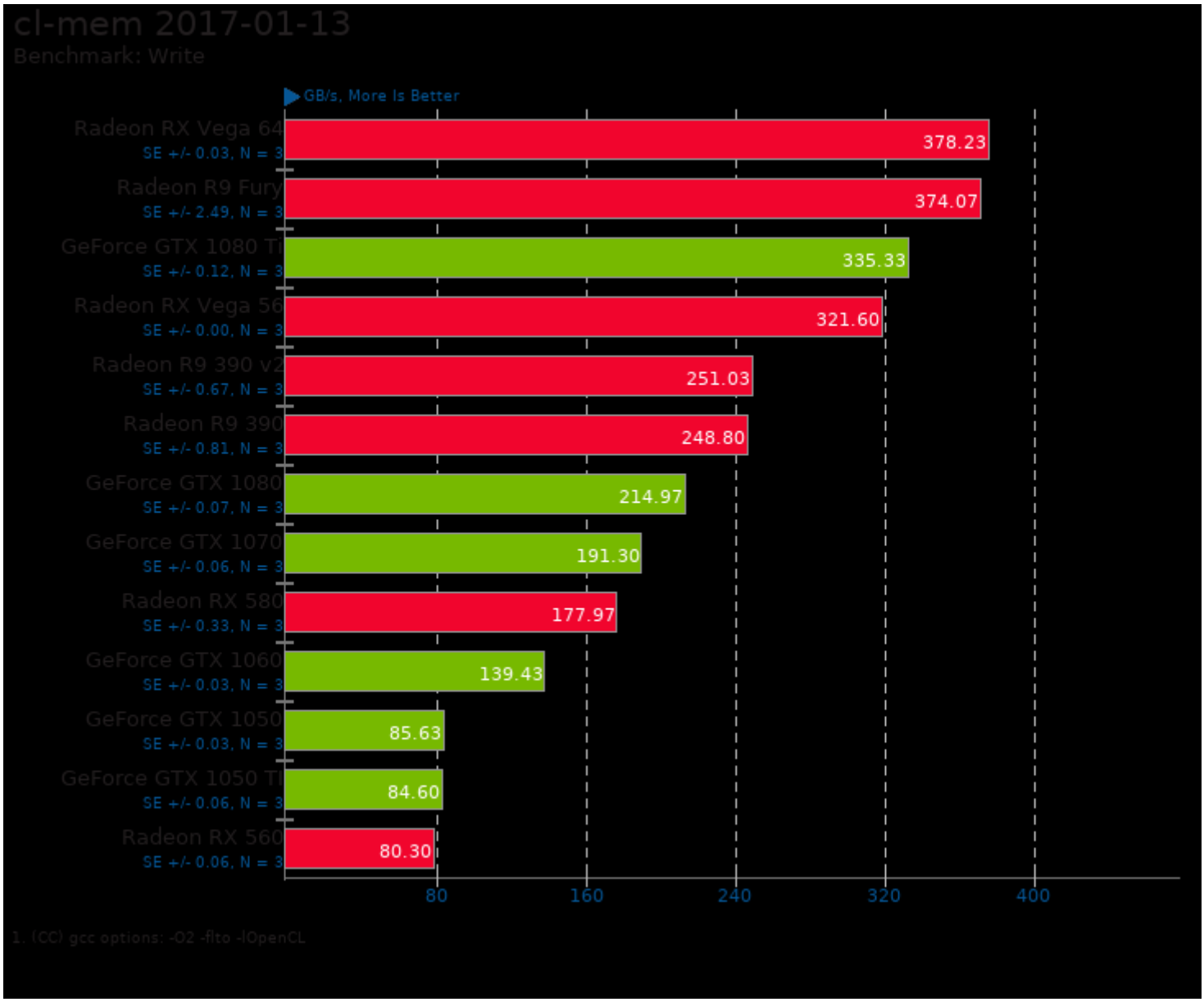
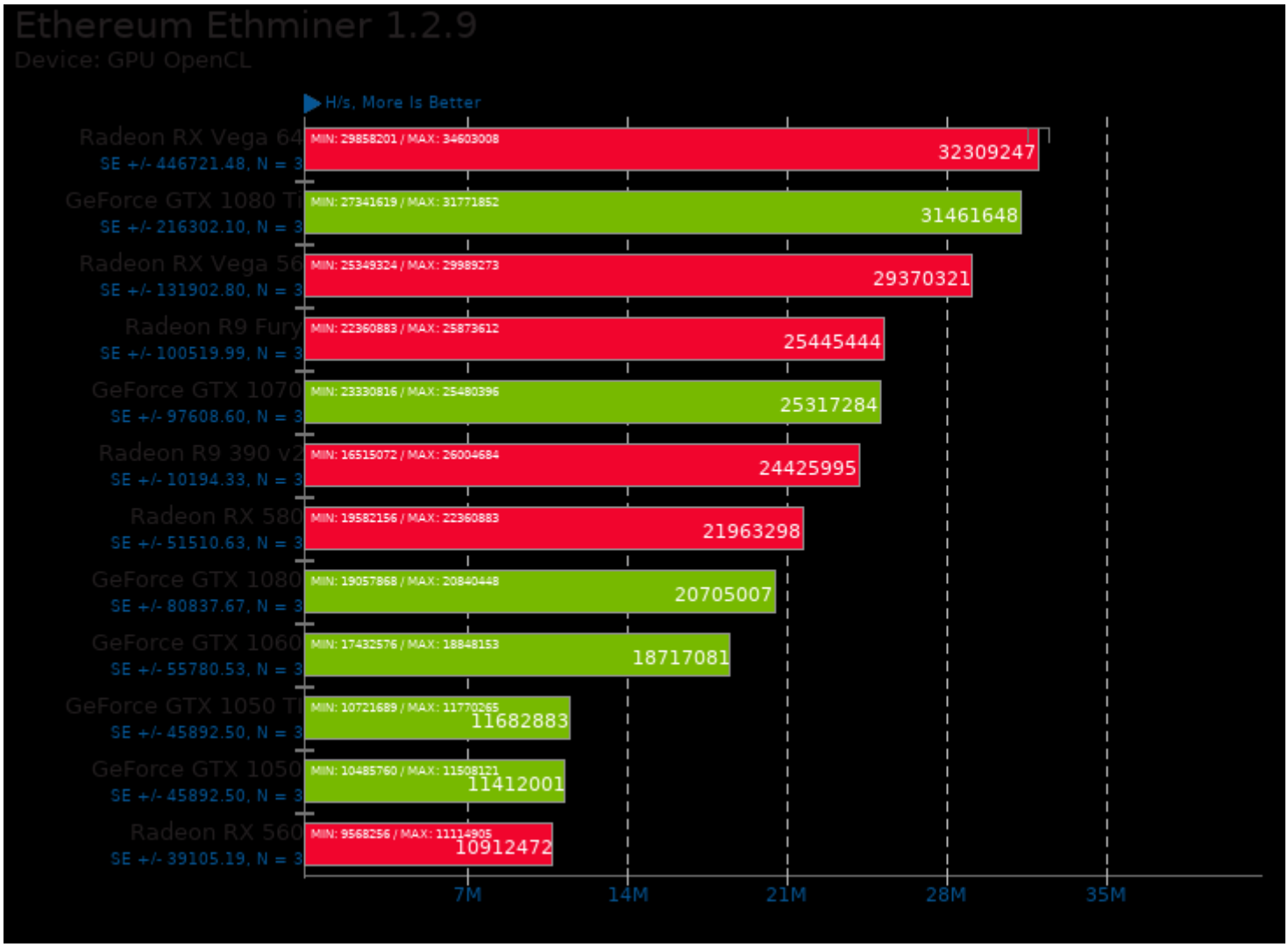
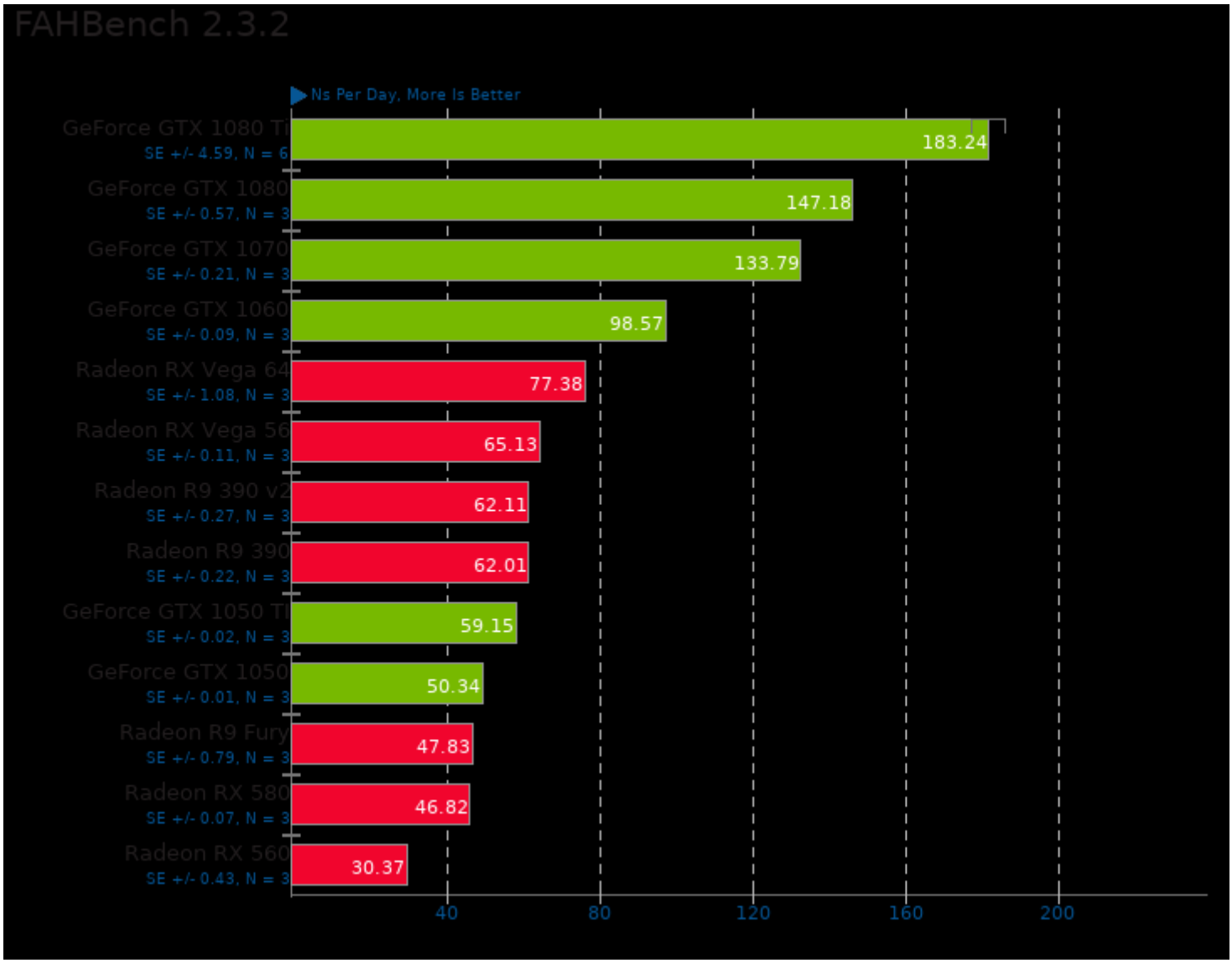


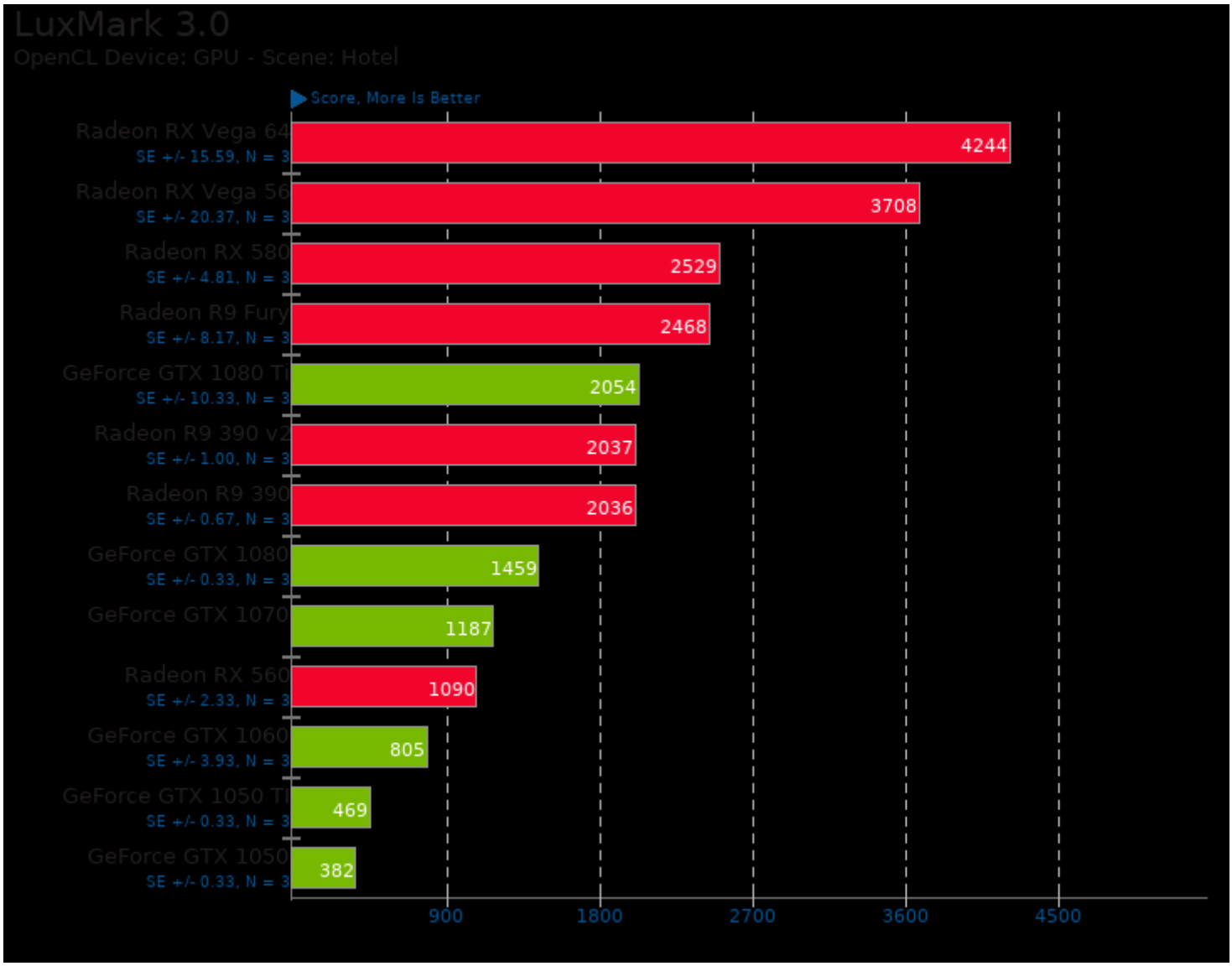
OpenCL New Beta AMDGPU-PRO 17.40 +2MB FS



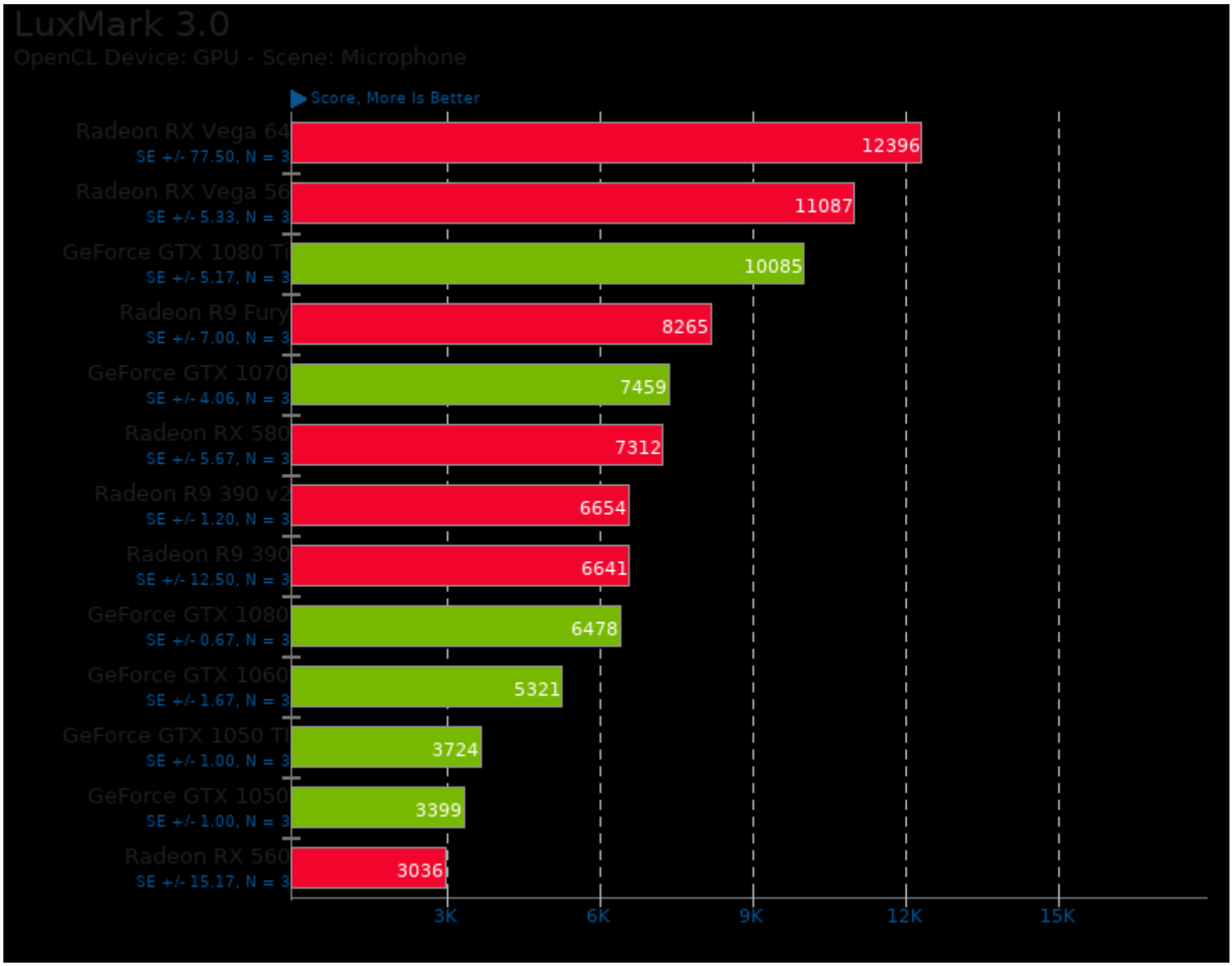
OpenCL New Beta AMDGPU-PRO 17.40 +2MB FS



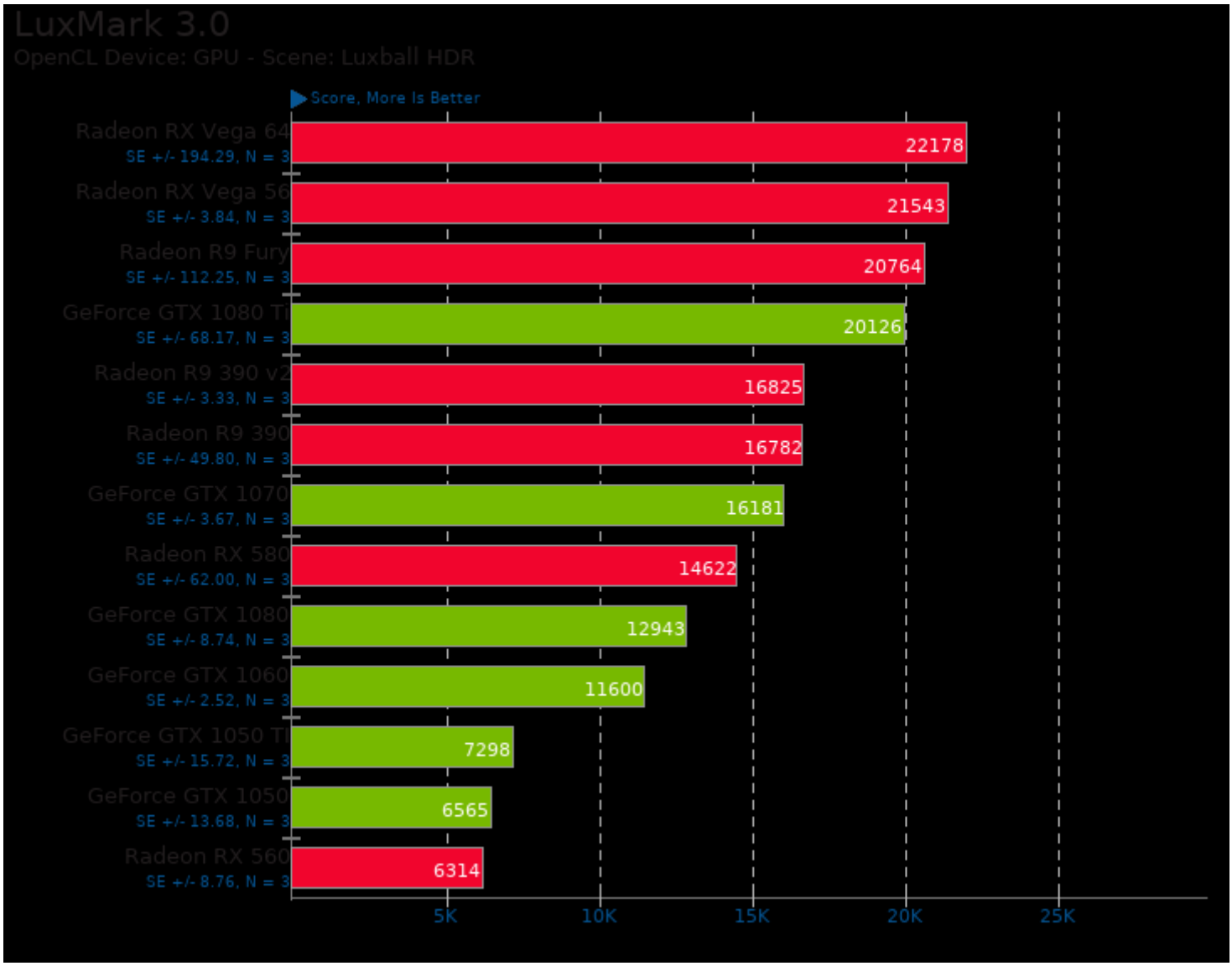
OpenCL New Beta AMDGPU-PRO 17.40 +2MB FS



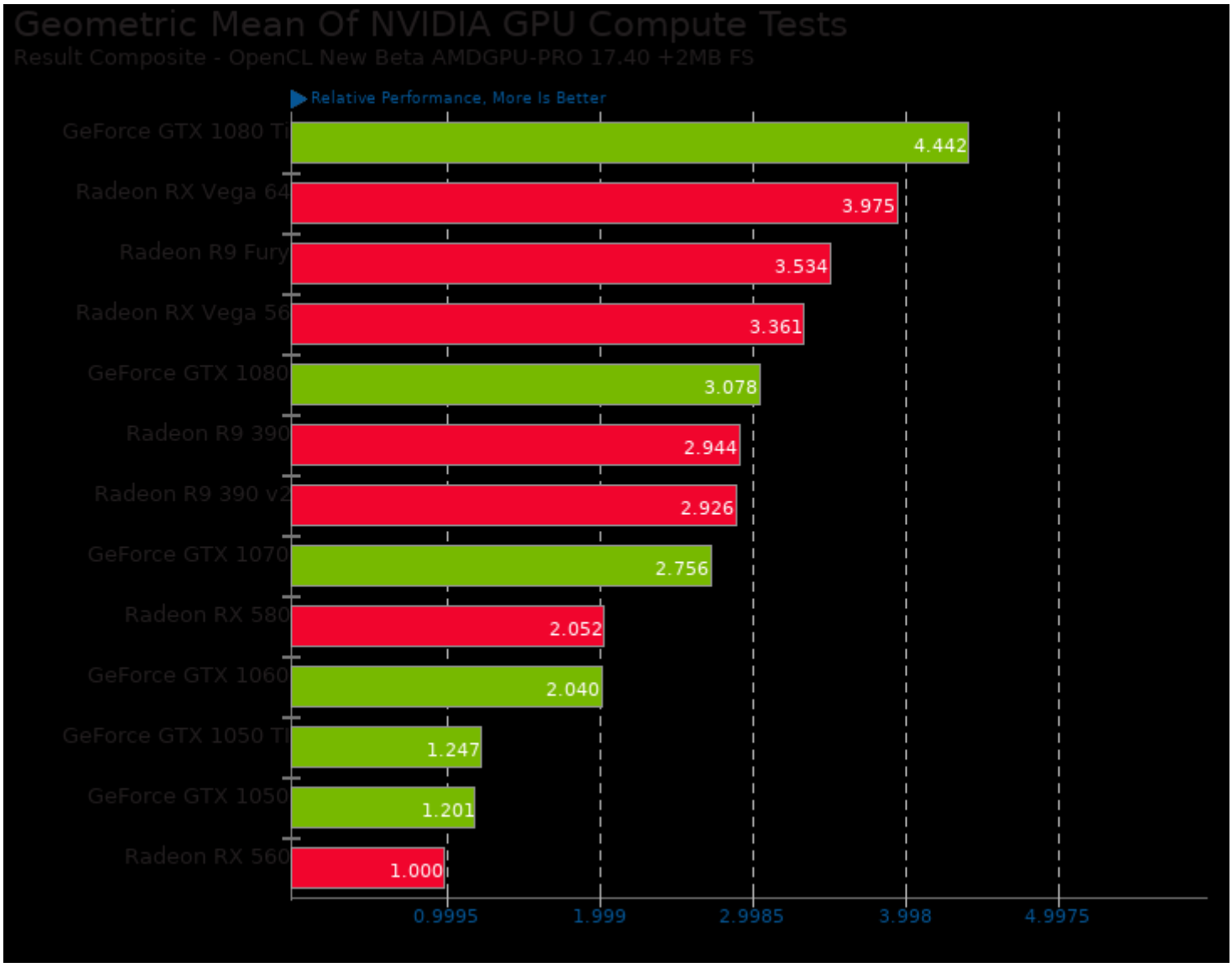
OpenCL New Beta AMDGPU-PRO 17.40 +2MB FS



OpenCL New Beta AMDGPU-PRO 17.40 +2MB FS

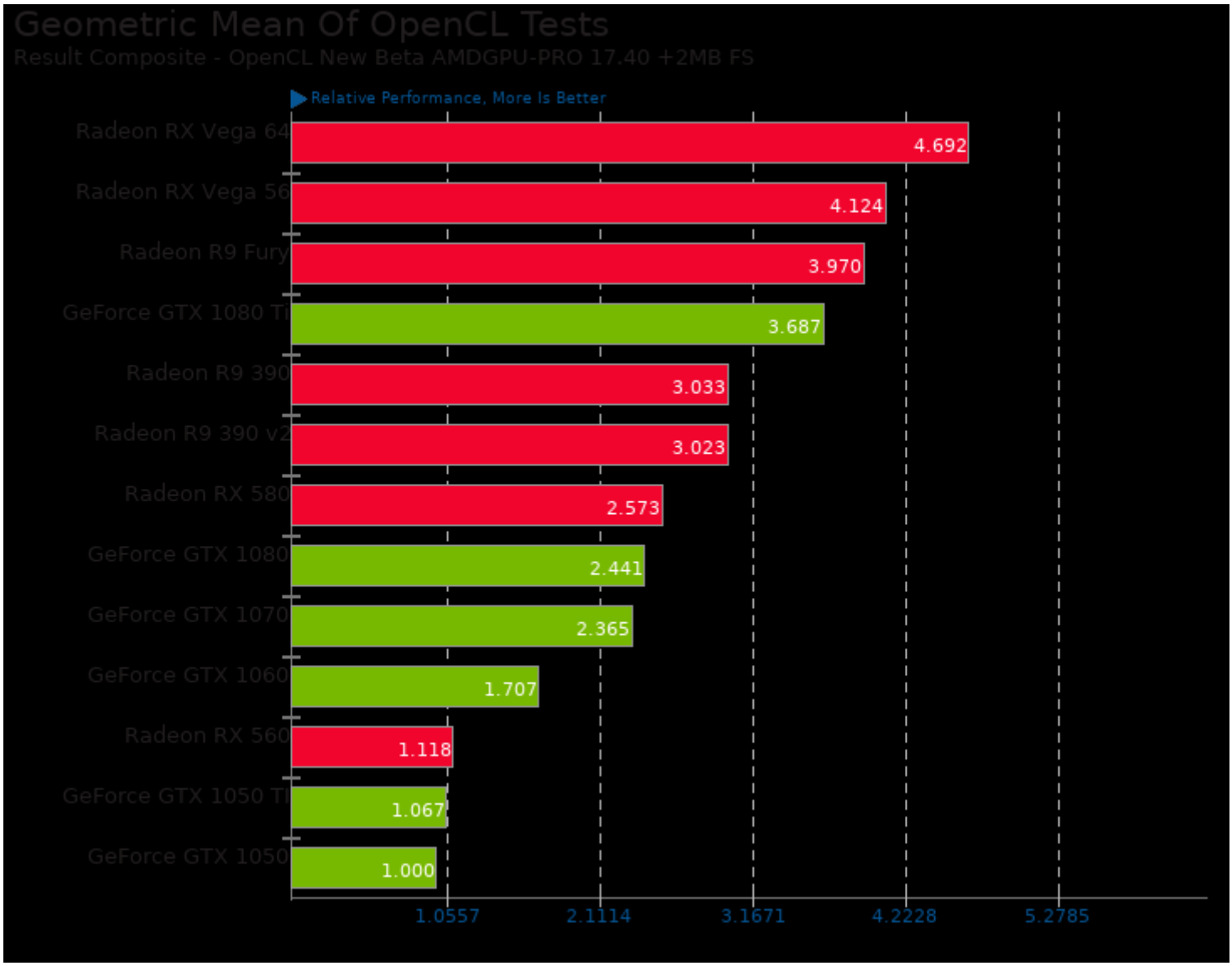


These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/fahbench and pts/cl-mem

OpenCL New Beta AMDGPU-PRO 17.40 +2MB FS



Geometric mean based upon tests: pts/luxmark and pts/cl-mem

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 06:59.