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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:

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

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 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 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 RX Vega 56

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

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

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.

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 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 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.

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

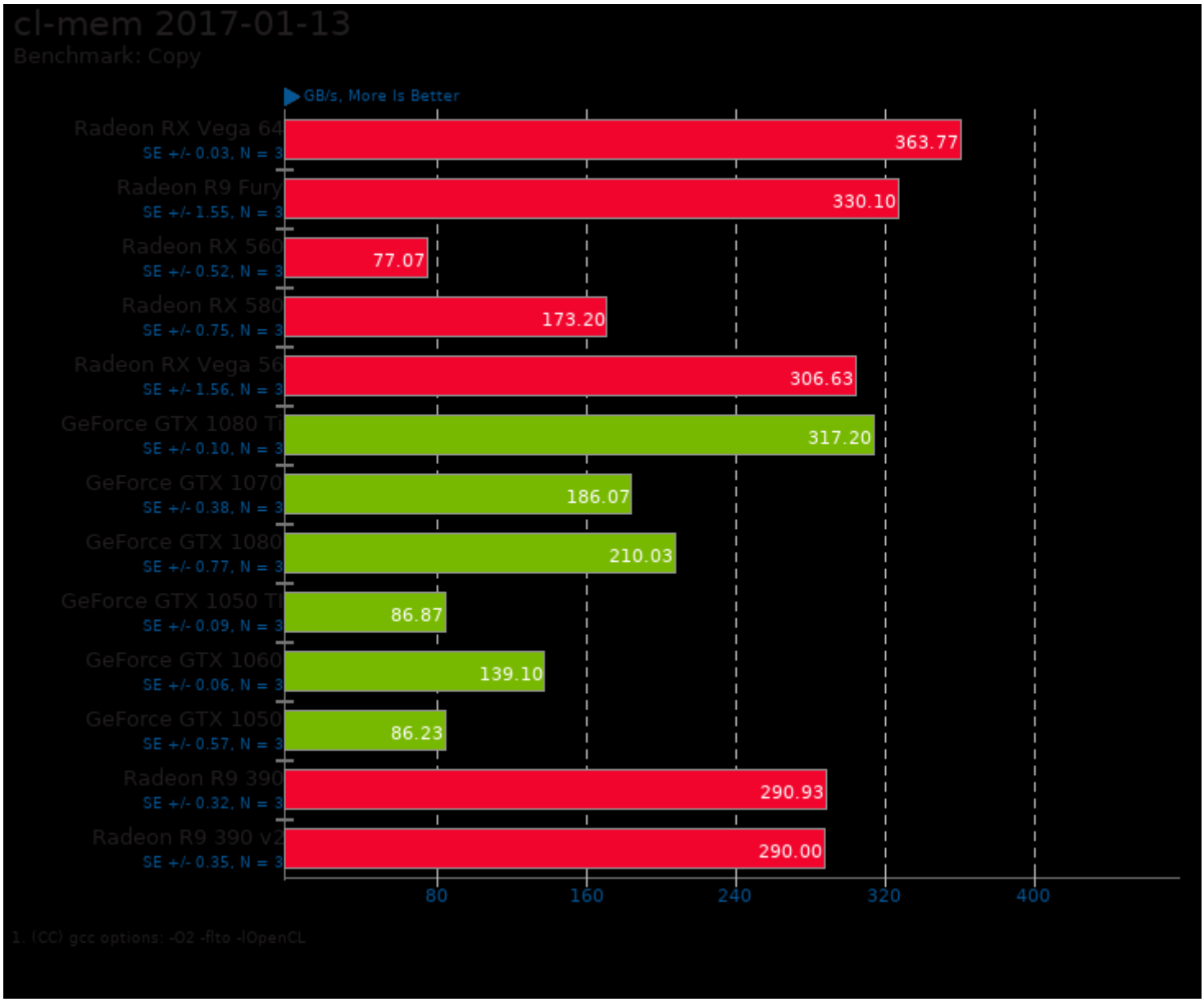
OS: Ubuntu 16.04, Kernel: 4.10.0-38-generic (x86_64), Desktop: Unity 7.4.0, Display Driver: modesetting 1.19.5, OpenGL: 4.5.13496, OpenCL: OpenCL 2.0 AMD-APP (2348.3), Compiler: GCC 5.4.1 20160904 + Clang 3.8.0-2ubuntu4 + LLVM 3.8.0, File-System: ext4, Screen Resolution: 3840x1080

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

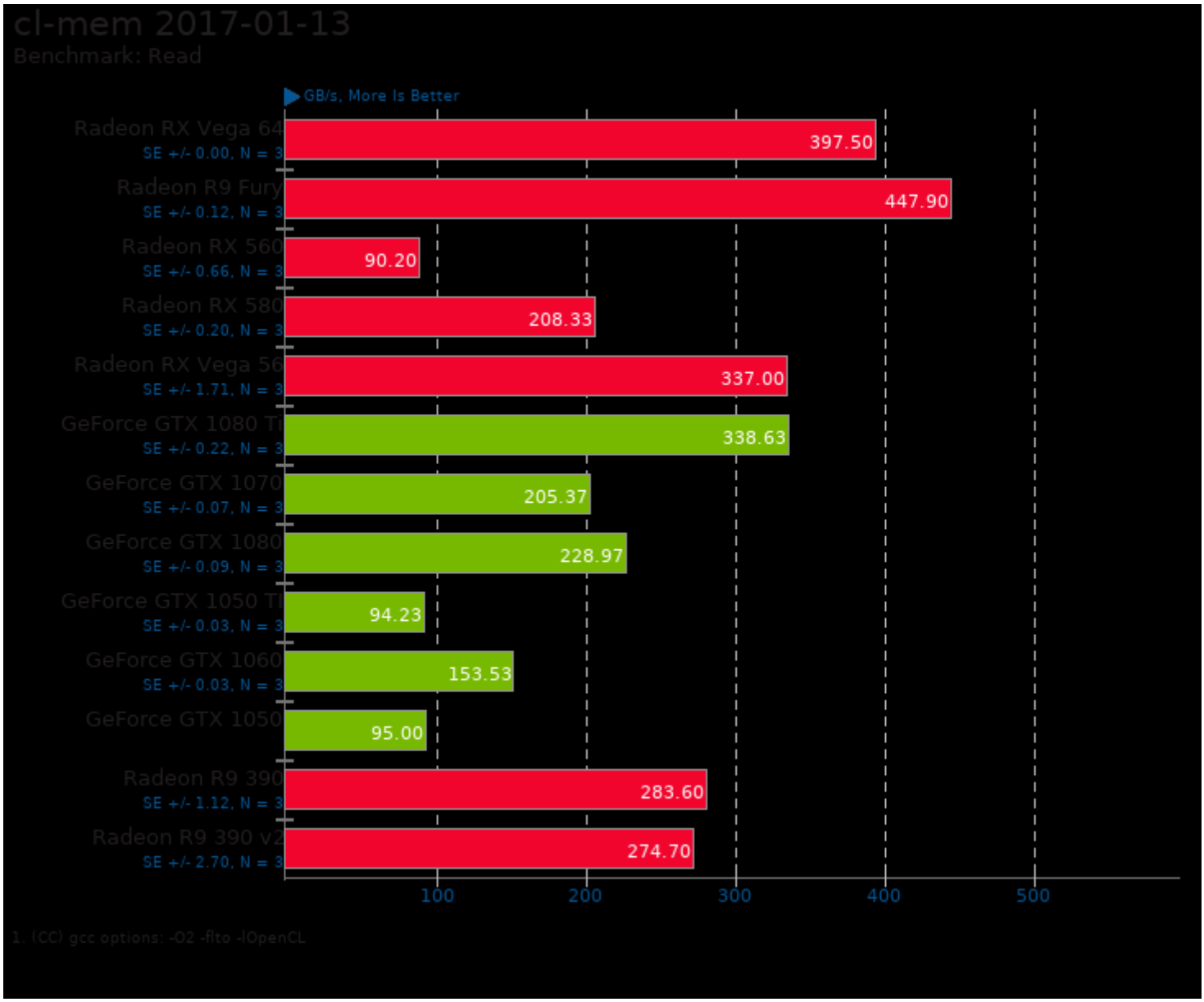
OpenCL New Beta AMDGPU-PRO 17.40 +2MB FS

	Radeon RX Vega 64	Radeon R9 Fury	Radeon RX 560	Radeon RX 580	Radeon RX Vega 56	GeForce GTX 1080 Ti	GeForce GTX 1070	GeForce GTX 1080	GeForce GTX 1050 TI	GeForce GTX 1060	GeForce GTX 1050	Radeon R9 390	Radeon R9 390 v2
cl-mem - Copy (GB/s)	**363.77**	330.10	**77.07**	173.20	306.63	317.20	186.07	210.03	86.87	139.10	86.23	290.93	290.00
Normalized	100%	90.74%	21.19%	47.61%	84.29%	87.2%	51.15%	57.74%	23.88%	38.24%	23.7%	79.98%	79.72%
Standard Deviation	0%	0.8%	1.2%	0.8%	0.9%	0.1%	0.4%	0.6%	0.2%	0.1%	1.1%	0.2%	0.2%
cl-mem - Read (GB/s)	397.50	**447.90**	**90.20**	208.33	337.00	338.63	205.37	228.97	94.23	153.53	95	283.60	274.70
Normalized	88.75%	100%	20.14%	46.51%	75.24%	75.6%	45.85%	51.12%	21.04%	34.28%	21.21%	63.32%	61.33%
Standard Deviation	0%	0%	1.3%	0.2%	0.9%	0.1%	0.1%	0.1%	0.1%	0%		0.7%	1.7%
cl-mem - Write (GB/s)	**378.23**	374.07	**80.30**	177.97	321.60	335.33	191.30	214.97	84.60	139.43	85.63	248.80	251.03
Normalized	100%	98.9%	21.23%	47.05%	85.03%	88.66%	50.58%	56.84%	22.37%	36.86%	22.64%	65.78%	66.37%
Standard Deviation	0%	1.2%	0.1%	0.3%	0%	0.1%	0.1%	0.1%	0.1%	0%	0.1%	0.6%	0.5%
Ethereum Ethminer - GPU OpenCL (H/s)	**32309247**	25445444	**10912472**	21963298	29370321	31461648	25317284	20705007	11682883	18717081	11412001		24425995
Normalized	100%	78.76%	33.78%	67.98%	90.9%	97.38%	78.36%	64.08%	36.16%	57.93%	35.32%		75.6%
Standard Deviation	2.4%	0.7%	0.6%	0.4%	0.8%	1.2%	0.7%	0.7%	0.7%	0.5%	0.7%		0.1%
FAHBench (Ns/Day)	77.38	47.83	**30.37**	46.82	65.13	**183.24**	133.79	147.18	59.15	98.57	50.34	62.01	62.11
Normalized	42.23%	26.1%	16.57%	25.55%	35.54%	100%	73.01%	80.32%	32.28%	53.79%	27.47%	33.84%	33.9%
Standard Deviation	2.4%	2.9%	2.4%	0.3%	0.3%	6.1%	0.3%	0.7%	0.1%	0.2%	0%	0.6%	0.8%
LuxMark - GPU - Hotel (Score)	**4244**	2468	1090	2529	3708	2054	1187	1459	469	805	**382**	2036	2037
Normalized	100%	58.15%	25.68%	59.59%	87.37%	48.4%	27.97%	34.38%	11.05%	18.97%	9%	47.97%	48%
Standard Deviation	0.6%	0.6%	0.4%	0.3%	1%	0.9%		0%	0.1%	0.8%	0.2%	0.1%	0.1%
LuxMark - GPU - Microphone (Score)	**12396**	8265	**3036**	7312	11087	10085	7459	6478	3724	5321	3399	6641	6654
Normalized	100%	66.67%	24.49%	58.99%	89.44%	81.36%	60.17%	52.26%	30.04%	42.93%	27.42%	53.57%	53.68%
Standard Deviation	1.1%	0.1%	0.9%	0.1%	0.1%	0.1%	0.1%	0%	0%	0.1%	0.1%	0.3%	0%
LuxMark - GPU - Luxball HDR (Score)	**22178**	20764	**6314**	14622	21543	20126	16181	12943	7298	11600	6565	16782	16825
Normalized	100%	93.62%	28.47%	65.93%	97.14%	90.75%	72.96%	58.36%	32.91%	52.3%	29.6%	75.67%	75.86%
Standard Deviation	1.5%	0.9%	0.2%	0.7%	0%	0.6%	0%	0.1%	0.4%	0%	0.4%	0.5%	0%

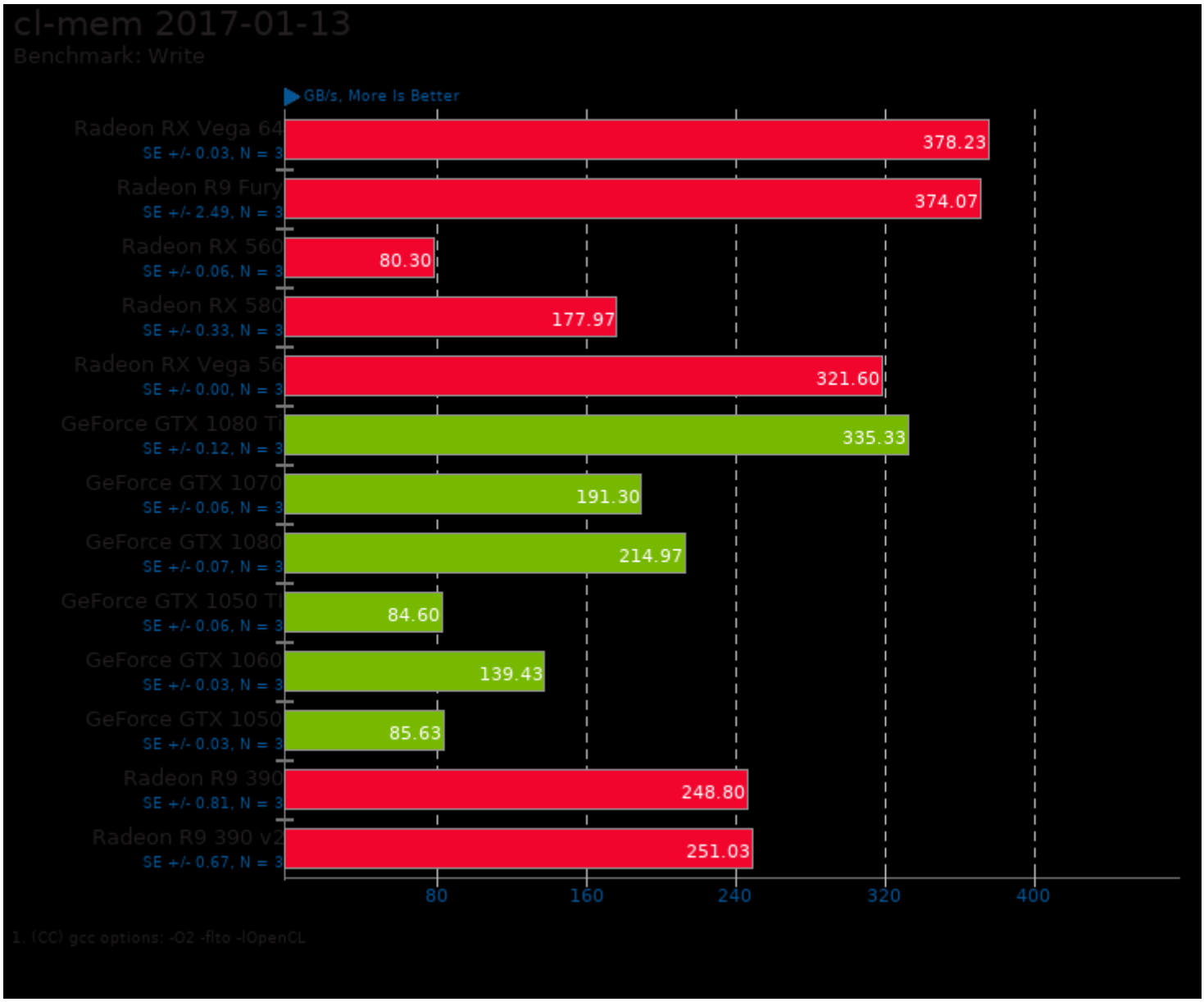
OpenCL New Beta AMDGPU-PRO 17.40 +2MB FS



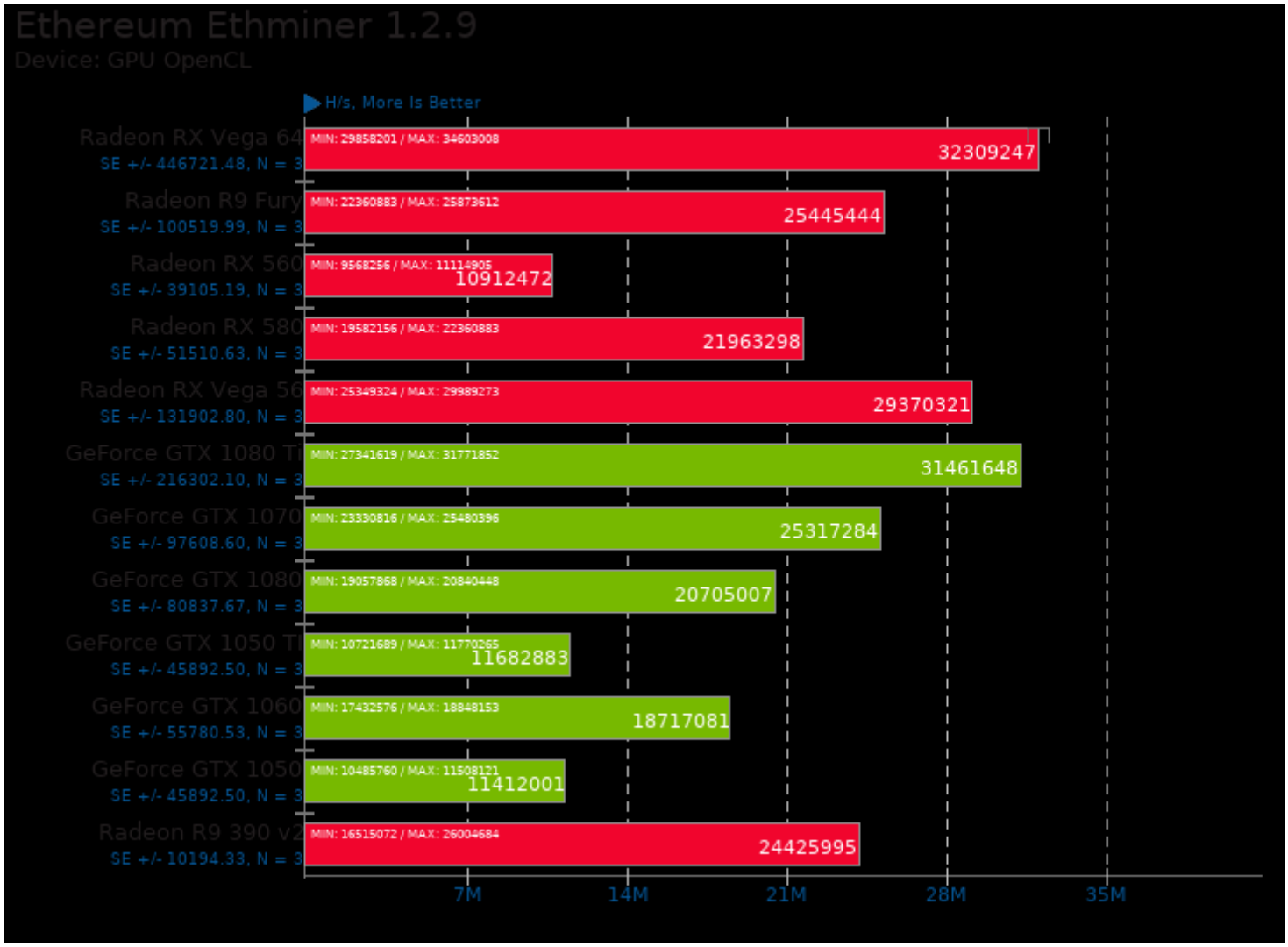
OpenCL New Beta AMDGPU-PRO 17.40 +2MB FS



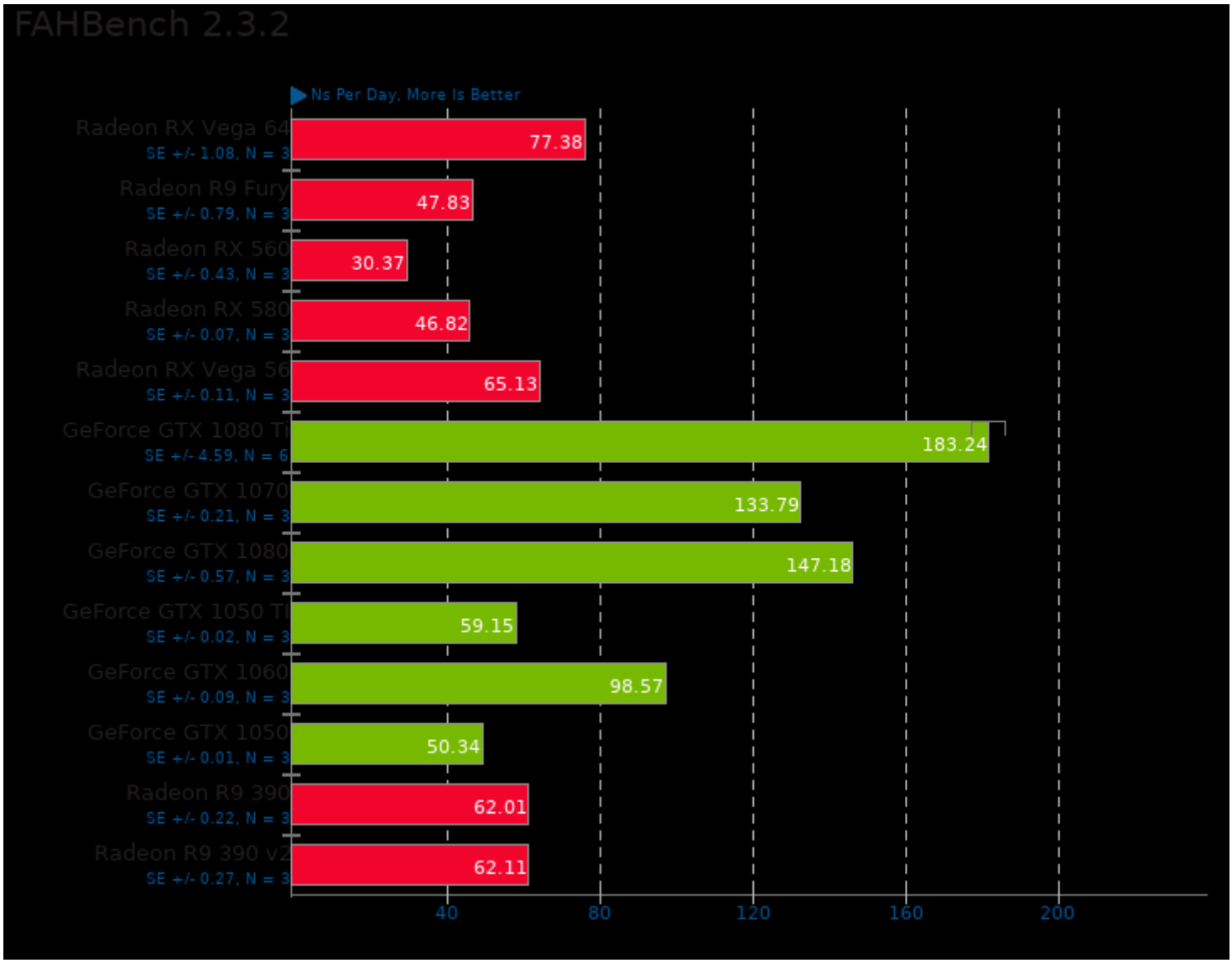
OpenCL New Beta AMDGPU-PRO 17.40 +2MB FS



OpenCL New Beta AMDGPU-PRO 17.40 +2MB FS

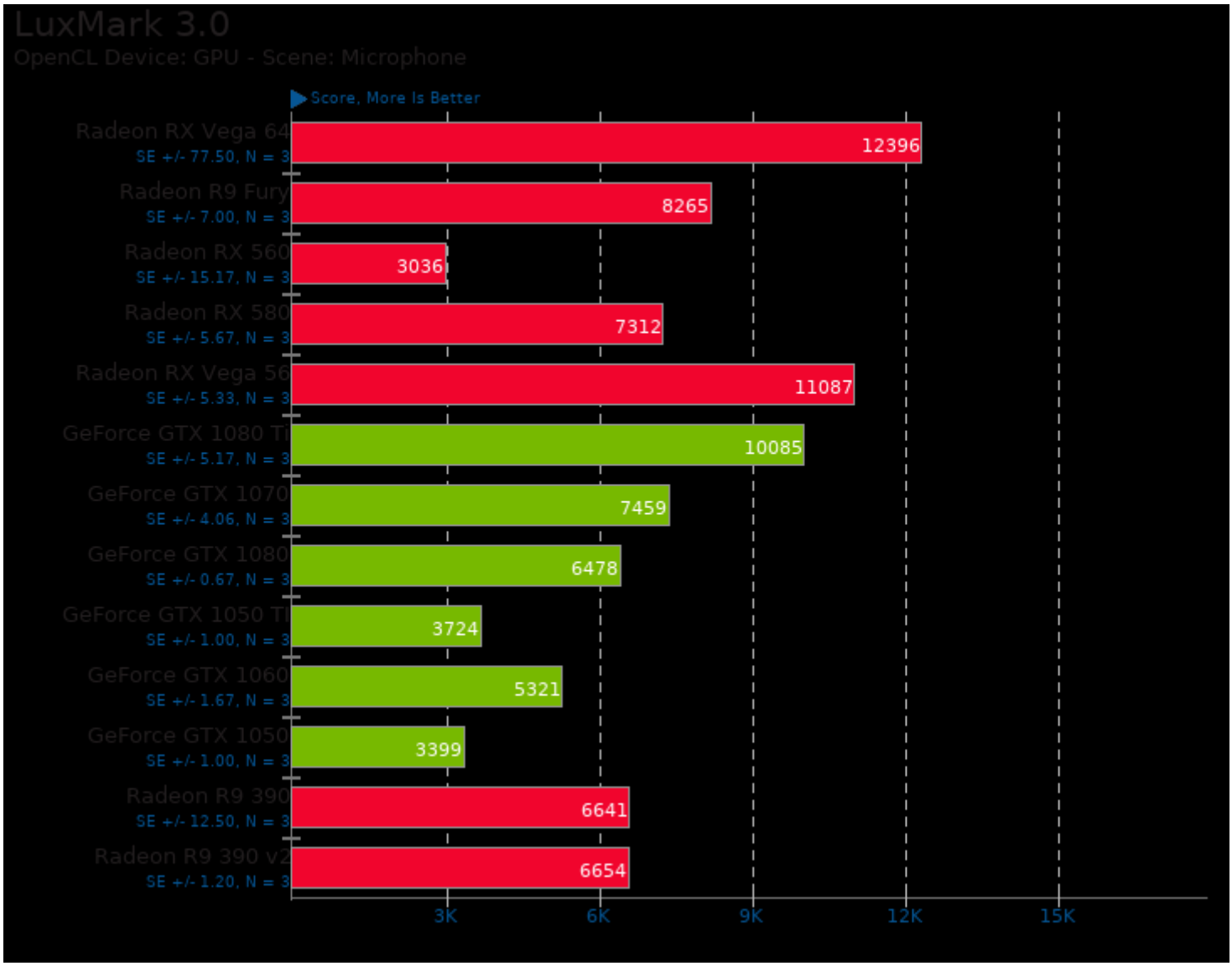


OpenCL New Beta AMDGPU-PRO 17.40 +2MB FS

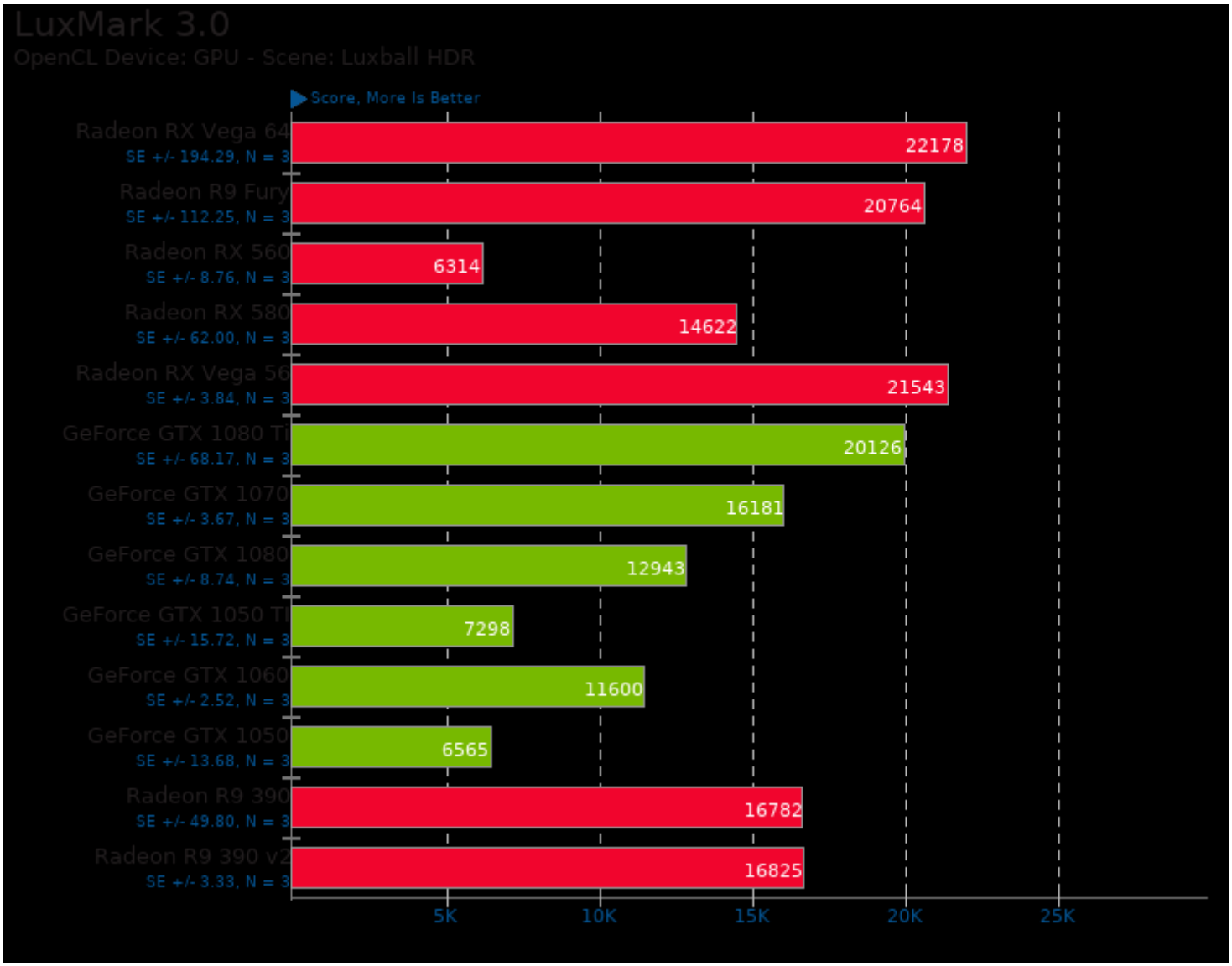


OpenCL New Beta AMDGPU-PRO 17.40 +2MB FS

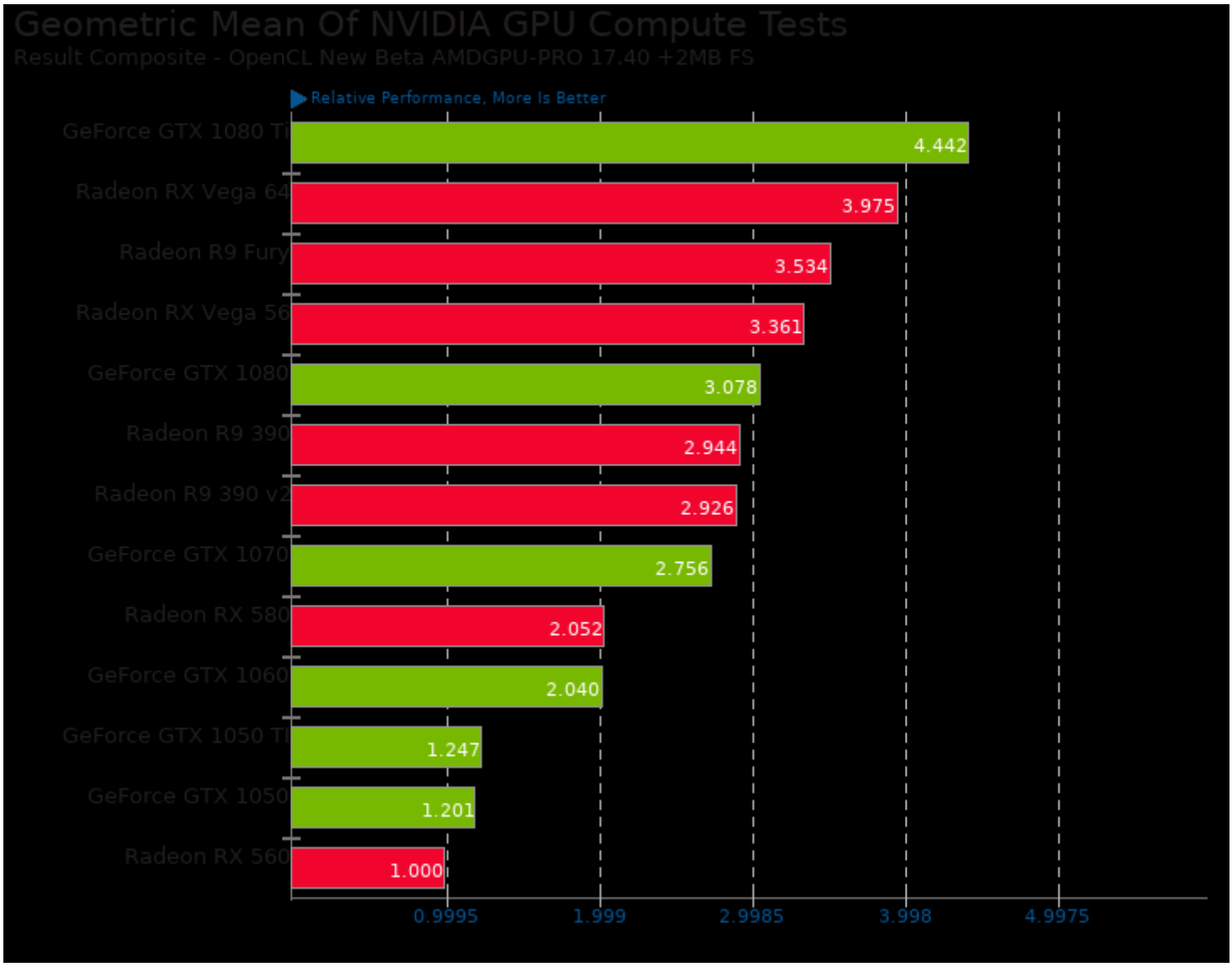
OpenCL New Beta AMDGPU-PRO 17.40 +2MB FS



OpenCL New Beta AMDGPU-PRO 17.40 +2MB FS

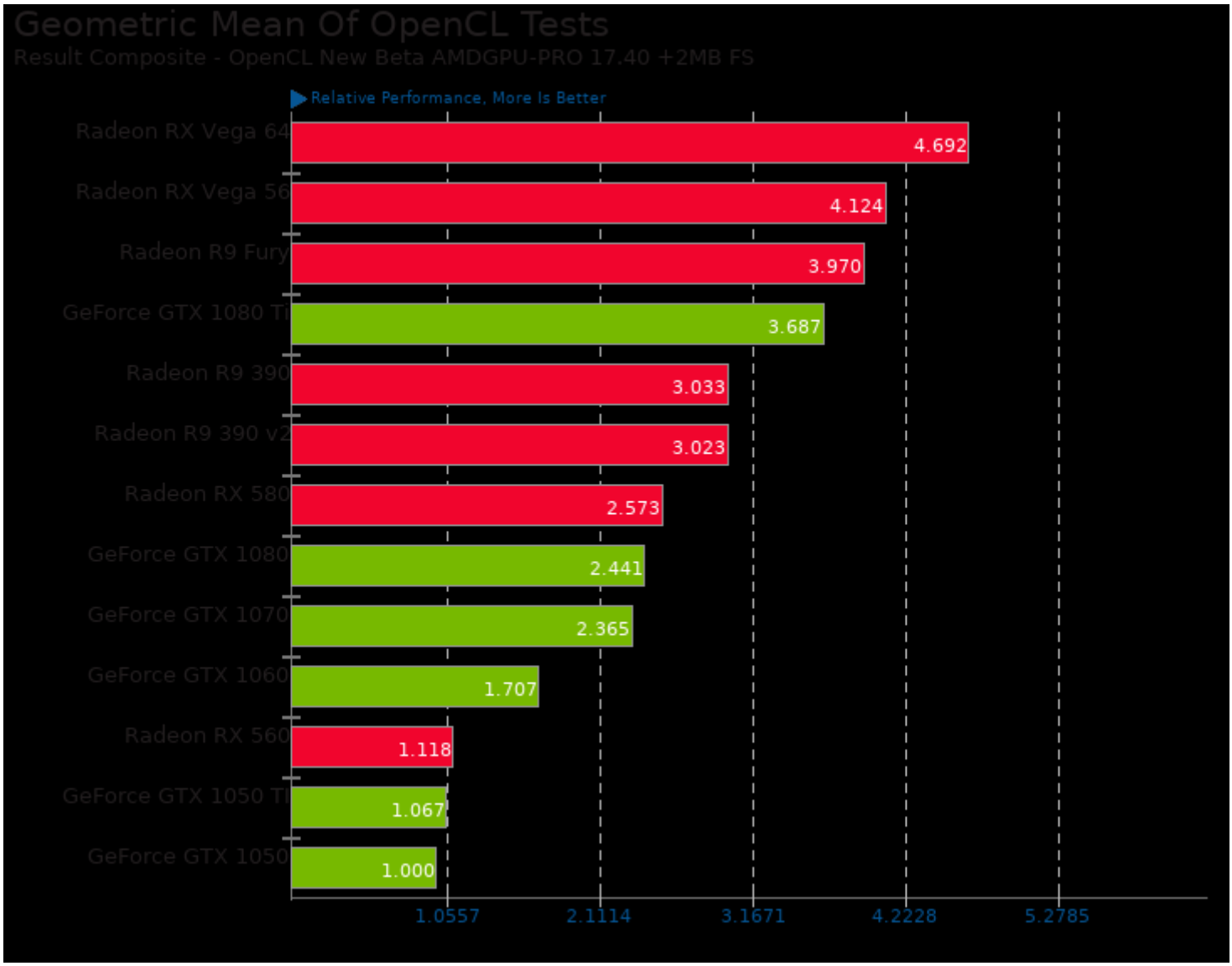


These geometric means are based upon test groupings / test suites for this result file.



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 22:30.