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Ubuntu 17.10 AMD Radeon vs. NVIDIA GeForce GPU Comparison

Radeon and GeForce tests on Ubuntu 17.10 benchmarks for a future article on Phoronix.com.

Automated Executive Summary

GeForce GTX 1080 Ti had the most wins, coming in first place for 50% of the tests.

Test Systems:

GeForce GTX 460

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: NVIDIA GeForce GTX 460 768MB (675/1804MHz), Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, OpenGL: 4.5.0, Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 650

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: MSI NVIDIA GeForce GTX 650 1024MB (1084/2500MHz), Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, OpenGL: 4.5.0, Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 680

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: NVIDIA GeForce GTX 680 2048MB (1006/3004MHz), Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, OpenGL: 4.5.0, Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 750

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: eVGA NVIDIA GeForce GTX 750 1024MB (1019/2505MHz), Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, OpenGL: 4.5.0, Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 760

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: NVIDIA GeForce GTX 760 2048MB (980/3004MHz), Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, OpenGL: 4.5.0, Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 780 Ti

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: NVIDIA GeForce GTX 780 Ti 3072MB (875/3500MHz), Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, OpenGL: 4.5.0, Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 950

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: eVGA NVIDIA GeForce GTX 950 2048MB (1202/3304MHz), Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, OpenGL: 4.5.0, Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 960

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: eVGA NVIDIA GeForce GTX 960 2048MB (1277/3505MHz), Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, OpenGL: 4.5.0, Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 980

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: NVIDIA GeForce GTX 980 4096MB (1126/3505MHz), Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, OpenGL: 4.5.0, Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 980 Ti

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: NVIDIA GeForce GTX 980 Ti 6144MB (999/3505MHz), Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, OpenGL: 4.5.0, Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 1050

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: Zotac NVIDIA GeForce GTX 1050 2048MB (1354/3504MHz), Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, OpenGL: 4.5.0, Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 1050 Ti

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: eVGA NVIDIA GeForce GTX 1050 Ti 4096MB (1354/3504MHz), Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, OpenGL: 4.5.0, Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 1060

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: NVIDIA GeForce GTX 1060 6GB 6144MB (1506/4006MHz), Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, OpenGL: 4.5.0, Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 1070

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset:

Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: NVIDIA GeForce GTX 1070 8192MB (1506/4006MHz), Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, OpenGL: 4.5.0, Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 1080

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: NVIDIA GeForce GTX 1080 8192MB (1607/5005MHz), Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, OpenGL: 4.5.0, Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 1080 Ti

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: NVIDIA GeForce GTX 1080 Ti 11264MB (1480/5508MHz), Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, OpenGL: 4.5.0, Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave

Radeon HD 4650

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: Sapphire AMD Radeon HD 4650 512MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-999-generic (x86_64) 20171029, Desktop: GNOME Shell 3.26.1, Display Driver: modesetting 1.19.5, OpenGL: 3.3 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Radeon HD 4670

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset:

Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: Sapphire AMD Radeon HD 4670 512MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-999-generic (x86_64) 20171029, Desktop: GNOME Shell 3.26.1, Display Driver: modesetting 1.19.5, OpenGL: 3.3 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Radeon HD 4770

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: Sapphire AMD Radeon HD 4770 512MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-999-generic (x86_64) 20171029, Desktop: GNOME Shell 3.26.1, Display Driver: modesetting 1.19.5, OpenGL: 3.3 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Radeon HD 4850

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: AMD Radeon HD 4850 512MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-999-generic (x86_64) 20171029, Desktop: GNOME Shell 3.26.1, Display Driver: modesetting 1.19.5, OpenGL: 3.3 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Radeon HD 4870

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: AMD Radeon HD 4870 512MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-999-generic (x86_64) 20171029, Desktop: GNOME Shell 3.26.1, Display Driver: modesetting 1.19.5, OpenGL: 3.3 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Radeon HD 6870

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: Sapphire AMD Radeon HD 6870 1024MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-999-generic (x86_64) 20171029, Desktop: GNOME Shell 3.26.1, Display Driver: modesetting 1.19.5, OpenGL: 3.3 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Radeon HD 6950

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: Sapphire AMD Radeon HD 6950 2048MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-999-generic (x86_64) 20171029, Desktop: GNOME Shell 3.26.1, Display Driver: modesetting 1.19.5, OpenGL: 4.1 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Radeon HD 7950

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Device 2020, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: XFX AMD Radeon HD 7950/8950 OEM / R9 280 3072MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-999-generic (x86_64) 20171029, Desktop: GNOME Shell 3.26.1, Display Driver: modesetting 1.19.5, OpenGL: 4.5 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Radeon R9 270X

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: Gigabyte AMD Radeon R7 370 / R9 270X/370X 2048MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-999-generic (x86_64) 20171029, Desktop: GNOME Shell 3.26.1, Display Driver: modesetting 1.19.5, OpenGL: 4.5 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0,

File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Radeon R9 285

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: XFX AMD Radeon R9 200 2048MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-999-generic (x86_64) 20171029, Desktop: GNOME Shell 3.26.1, Display Driver: modesetting 1.19.5, OpenGL: 4.5 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Radeon R7 370

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: MSI AMD Radeon R7 370 / R9 270/370 OEM 4096MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-999-generic (x86_64) 20171029, Desktop: GNOME Shell 3.26.1, Display Driver: modesetting 1.19.5, OpenGL: 4.5 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Radeon RX 480

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: AMD Radeon 8192MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-999-generic (x86_64) 20171029, Desktop: GNOME Shell 3.26.1, Display Driver: amdgpu 1.4.99, OpenGL: 4.5 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Radeon RX 550

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: Gigabyte AMD Radeon RX 550 2048MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel

Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-999-generic (x86_64) 20171029, Desktop: GNOME Shell 3.26.1, Display Driver: modesetting 1.19.5, OpenGL: 4.5 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Radeon RX 560

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: Sapphire AMD Baffin [Polaris11] 4096MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-999-generic (x86_64) 20171029, Desktop: GNOME Shell 3.26.1, Display Driver: modesetting 1.19.5, OpenGL: 4.5 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Radeon RX 580

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: MSI AMD Radeon RX 580 8192MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-999-generic (x86_64) 20171029, Desktop: GNOME Shell 3.26.1, Display Driver: modesetting 1.19.5, OpenGL: 4.5 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Radeon R9 Fury

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: Sapphire AMD Radeon 4096MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-999-generic (x86_64) 20171029, Desktop: GNOME Shell 3.26.1, Display Driver: modesetting 1.19.5, OpenGL: 4.5 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Radeon RX Vega 56

Radeon RX Vega 64

Processor: Intel Core i9-7980XE @ 4.40GHz (18 Cores / 36 Threads), Motherboard: ASUS PRIME X299-A, Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 120GB Force MP500, Graphics: AMD Radeon RX Vega 8192MB, Audio: Realtek ALC1220, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.14.0-rc3-dc-next-okt15 (x86_64) 20171015, Desktop: GNOME Shell 3.26.1, Display Driver: amdgpu 1.4.99, OpenGL: 4.5 Mesa 17.4.0-devel- padoka PPA (LLVM 6.0.0), Vulkan: 1.0.61, Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: GJS_DEBUG_TOPICS=JS ERROR;JS LOG GJS_DEBUG_OUTPUT=stderr
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

GeForce GTX 1050 Ti Ubuntu 17.10

Processor: Intel Core i7-4790K @ 4.40GHz (8 Cores), Motherboard: ASUS Z97-P, Chipset: Intel 4th Gen Core DRAM, Memory: 32768MB, Disk: 250GB Samsung SSD 850 + 1000GB Seagate ST1000DX001-1NS1, Graphics: Gigabyte NVIDIA GeForce GTX 1050 Ti 4096MB (1328/3504MHz), Audio: Realtek ALC887-VD, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 17.10, Kernel: 4.13.0-16-generic (x86_64), Desktop: GNOME Shell 3.26.1, Display Driver: NVIDIA 387.22, File-System: ext4, Screen Resolution: 3840x1080

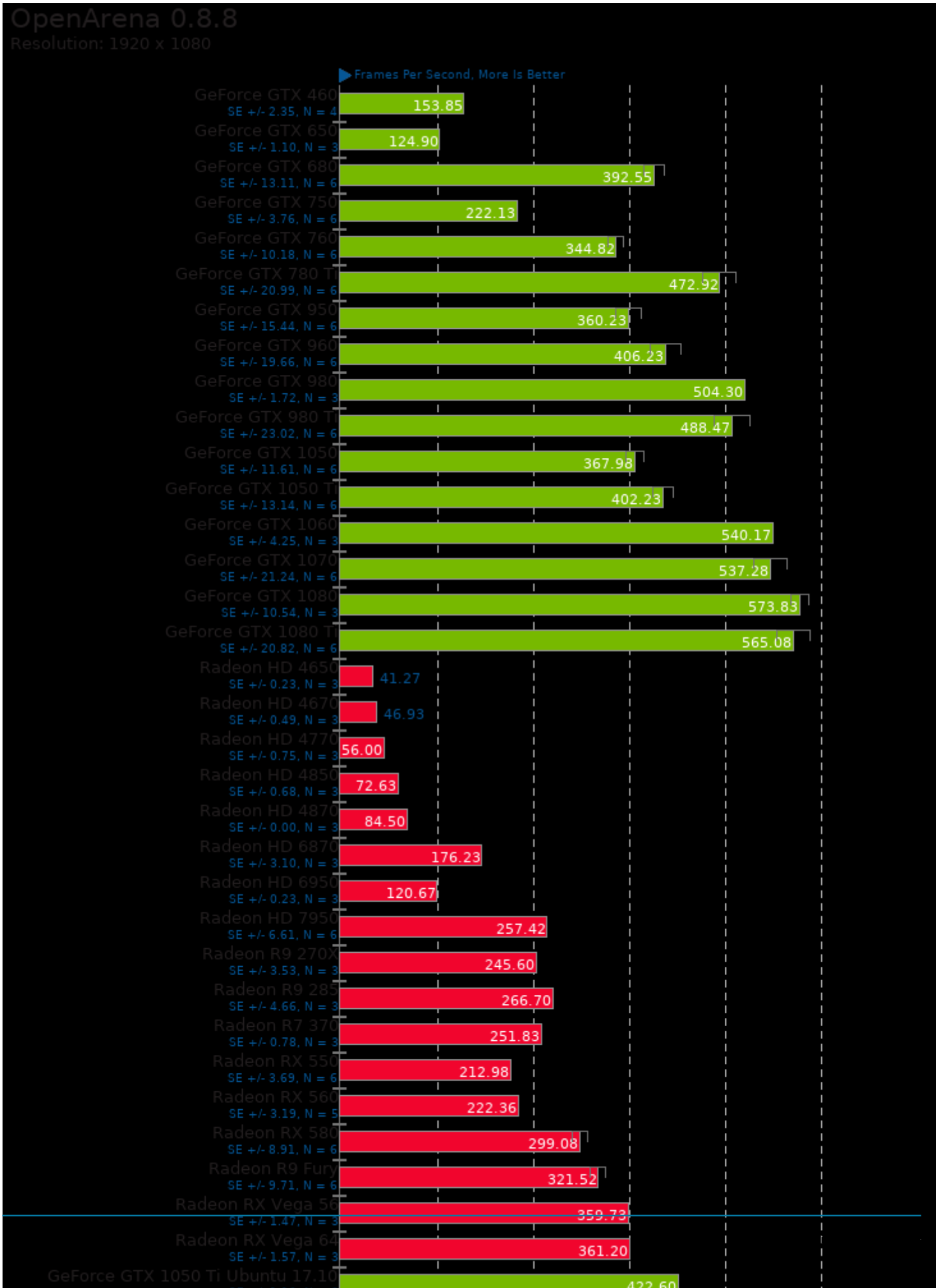
Processor Notes: Scaling Governor: intel_pstate powersave

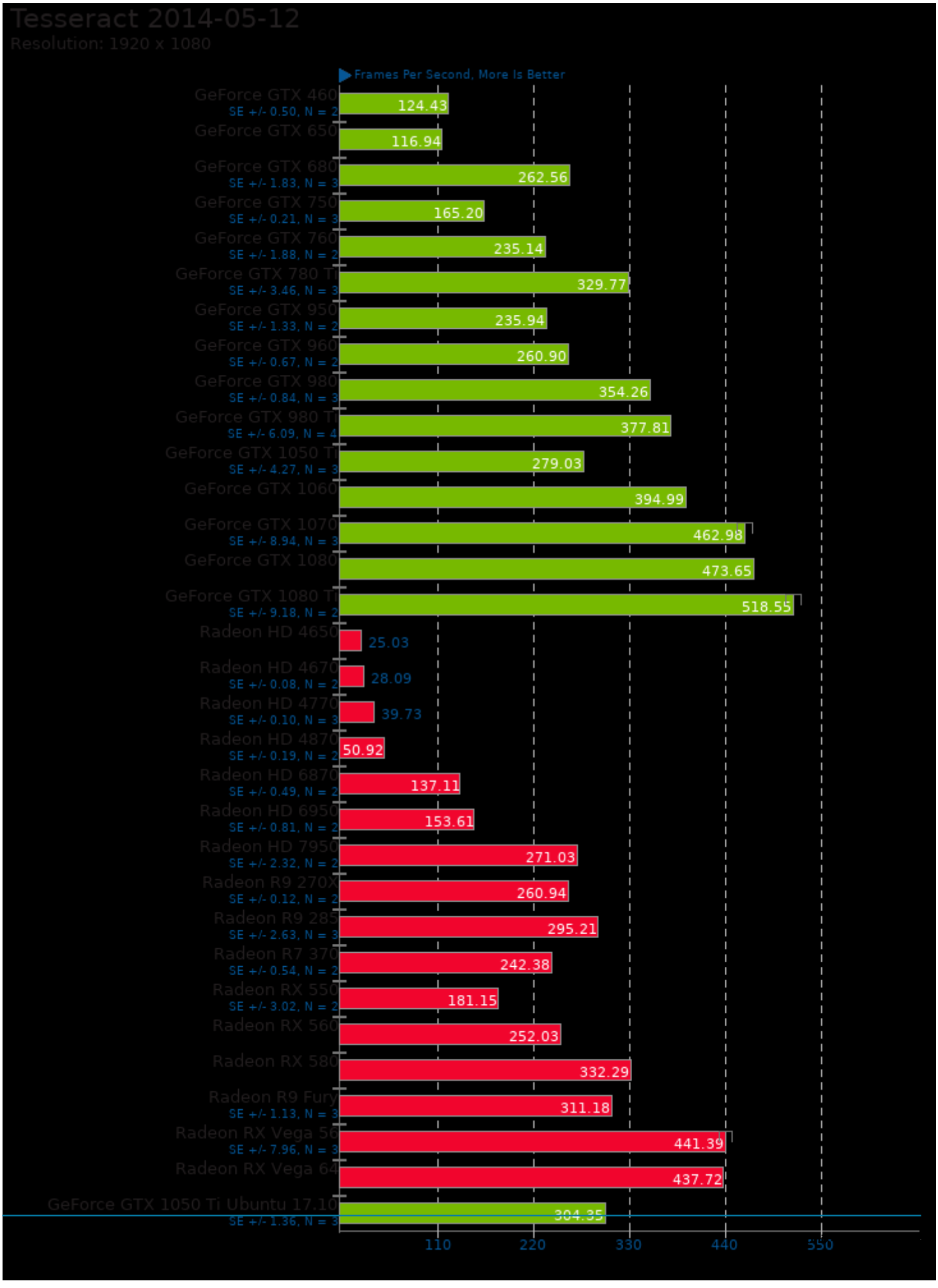
	GeForce GTX 460	GeForce GTX 650	GeForce GTX 680	GeForce GTX 750	GeForce GTX 760	GeForce GTX 780 Ti	GeForce GTX 950	GeForce GTX 960	GeForce GTX 980	GeForce GTX 980 Ti	GeForce GTX 1050	GeForce GTX 1050 Ti	GeForce GTX 1060	GeForce GTX 1070	GeForce GTX 1080	GeForce GTX 1080 Ti	Radeon HD 4650	Radeon HD 4670	Radeon HD 4770	Radeon HD 4850	Radeon HD 4870	Radeon HD 6850	Radeon HD 6950	Radeon HD 7950	Radeon R9 270X	Radeon R9 285	Radeon R7 370	Radeon R7 480	Radeon RX 550	Radeon RX 560	Radeon RX 580	Radeon R9 Fury	Radeon RX Vega 56	Radeon RX V64	GeForce GTX 1050 Ti Ubuntu 17.1
OpenArena - 1920 x 1080 (FPS)	153.8	124.9	395.2	224.1	347.9	426.0	360.2	406.2	500.3	487.8	369.7	402.3	543.0	573.8	565.0	581.2	41.27	46.89	60.03	72.63	84.50	117.0	120.6	254.0	226.4	260.6	151.0	212.9	298.5	362.3	298.9	325.2	359.3	362.0	420.6
Normalized	26.81	21.71	68.41	38.71	60.09	82.41	62.37	70.79	87.83	85.12	64.13	70.11	94.13	93.63	100.0	98.48	7.191	8.183	9.766	12.63	14.73	30.71	21.03	44.86	42.84	46.48	43.89	37.12	38.75	52.12	56.03	62.69	62.95	73.65
Standard Deviation	3.1%	1.5%	8.2%	4.1%	7.2%	10.9%	10.5%	11.9%	0.6%	11.5%	7.7%	8%	1.4%	9.7%	3.2%	9%	1%	1.8%	2.3%	1.6%	0%	3%	0.3%	6.3%	2.5%	3%	0.5%	4.2%	3.2%	7.3%	7.4%	0.7%	0.8%	0.5%

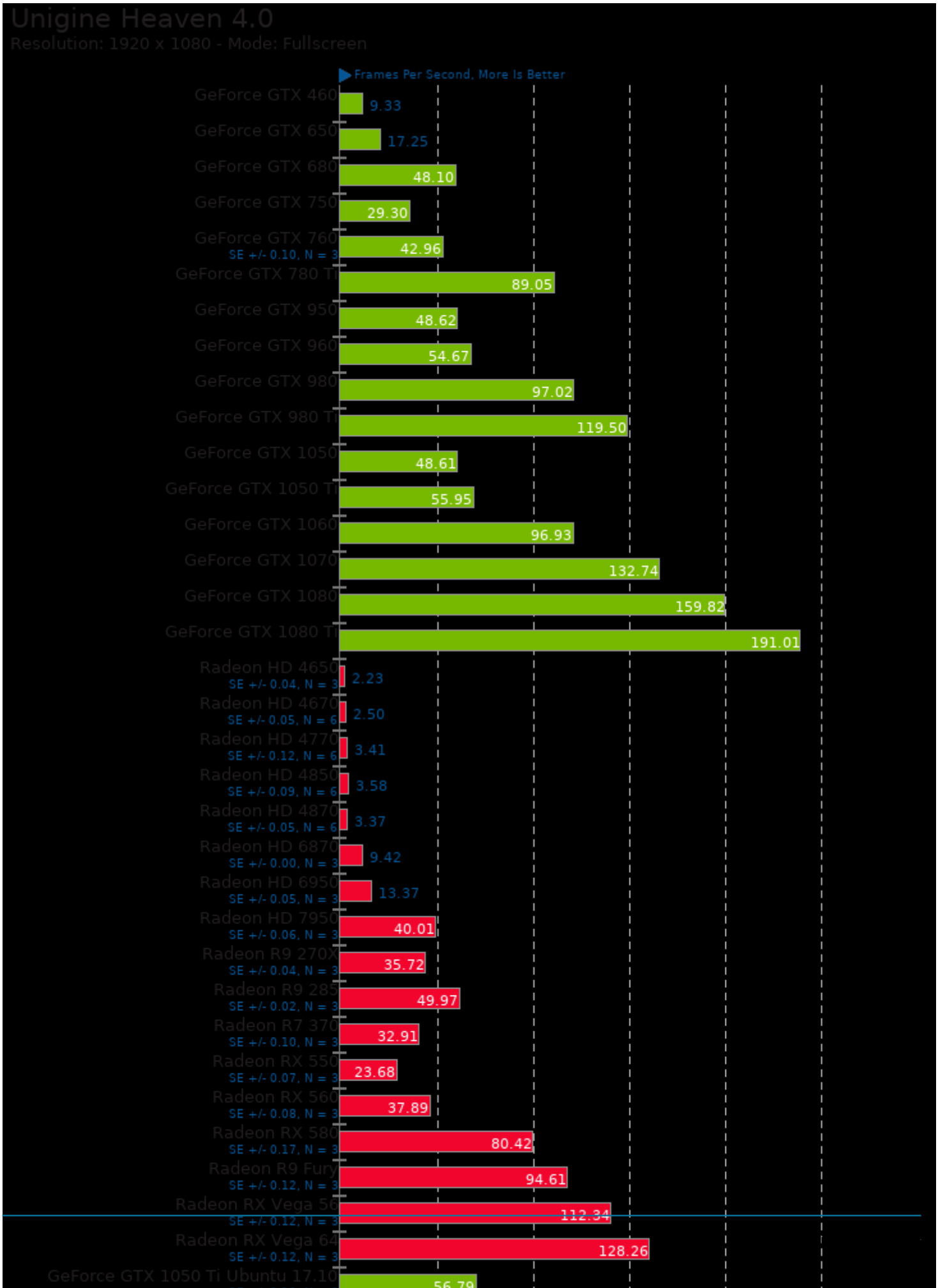
Tesseract - 1920 x 1080 (FPS)	1	1	2	1	2	3	2	2	3	3		2	3	4	4	**5**	**2**	2	3		5	1	1	2	2	2	2		1	2	3	3	4	4	3
	2	1	6	6	3	2	3	6	5	7		7	9	6	7	**1**	**5.**	8.	9.		0.	3	5	7	6	9	4		8	5	3	1	4	3	0
	4.	6.	2.	5.	5.	9.	5.	0.	4.	7.		9.	4.	2.	3.	**8.**	**0**	0	7		9	7.	3.	1.	0.	5.	2.		1.	2.	2.	1.	1.	7.	4.
	4	9	5	2	1	7	9	9	2	8		0	9	9	6	**5**	**3**	9	3		2	1	6	0	9	2	3		1	0	2	1	3	7	3
	3	4	6	0	4	7	4	0	6	1		3	9	8	5	**5**						1	1	3	4	1	8		5	3	9	8	9	2	5
Normalized	24	22	50	31	45	63	45	50	68	72		53	76	89	91	10	4.	5.	7.		9.	26	29	52	50	56	46		34	48	64	60	85	84	58
	%	.5	.6	.8	.3	.5	.5	.3	.3	.8		.8	.1	.2	.3	0	83	42	66		82	.4	.6	.2	.3	.9	.7		.9	.6	.0	.0	.1	.4	.6
		5	3	6	5	9	%	1	2	6		1	7	8	4	%	%	%	%		%	4	2	7	2	3	4		3	%	8	1	2	1	9
Standard Deviation	0.		1.	0.	1.	1.	0.	0.	0.	3.		2.		3.		2.		0.	0.		0.	0.	0.	1.	0.	1.	0.		2.			0.	3.		0.
	6		2	2	1	8	8	4	4	2		6		3		5		4	4		5	5	8	2	1	5	3		4			6	1		8
	%		%	%	%	%	%	%	%	%		%		%		%		%	%		%	%	%	%	%	%	%		%			%	%		%
Unigine Heaven - 1920 x 1080 - Fullscreen (FPS)	9.	1	4	2	4	8	4	5	9	1	4	5	9	1	1	**1**	**2.**	2.	3.	3.	3.	9.	1	4	3	4	3		2	3	8	9	1	1	5
	3	7.	8.	9.	2.	9.	8.	4.	7.	1	8.	5.	6.	3	5	**9**	**2**	5	4	5	3	4	3.	0.	5.	9.	2.		3.	7.	0.	4.	1	2	6.
	3	2	1	3	9	0	6	6	0	9.	6	9	9	2.	9.	**1.**	**3**	0	1	8	7	2	3	0	7	9	9		6	8	4	6	2.	8.	7
		5	0	0	6	5	2	7	2	5	1	5	3	7	8	**0**							7	1	2	7	1		8	9	2	1	3	2	9
										0				4	2	**1**																	4	6		
Normalized	4.	9.	25	15	22	46	25	28	50	62	25	29	50	69	83	10	1.	1.	1.	1.	1.	4.	7	20	18	26	17		12	19	42	49	58	67	29
	88	03	.1	.3	.4	.6	.4	.6	.7	.5	.4	.2	.7	.4	.6	0	17	31	79	87	76	93	%	.9	.7	.1	.2		.4	.8	.1	.5	.8	.1	.7
	%	%	8	4	9	2	5	2	9	6	5	9	5	9	7	%	%	%	%	%	%	%		5	%	6	3		%	4	%	3	1	5	3
Standard Deviation					0.												3.	4.	8.	5.	3.	0.	0.	0.	0.	0.	0.		0.	0.	0.	0.	0.	0.	0.
					4												2	5	4	9	5	1	7	2	2	1	5		5	4	4	2	2	2	3
					%												%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%	%	%

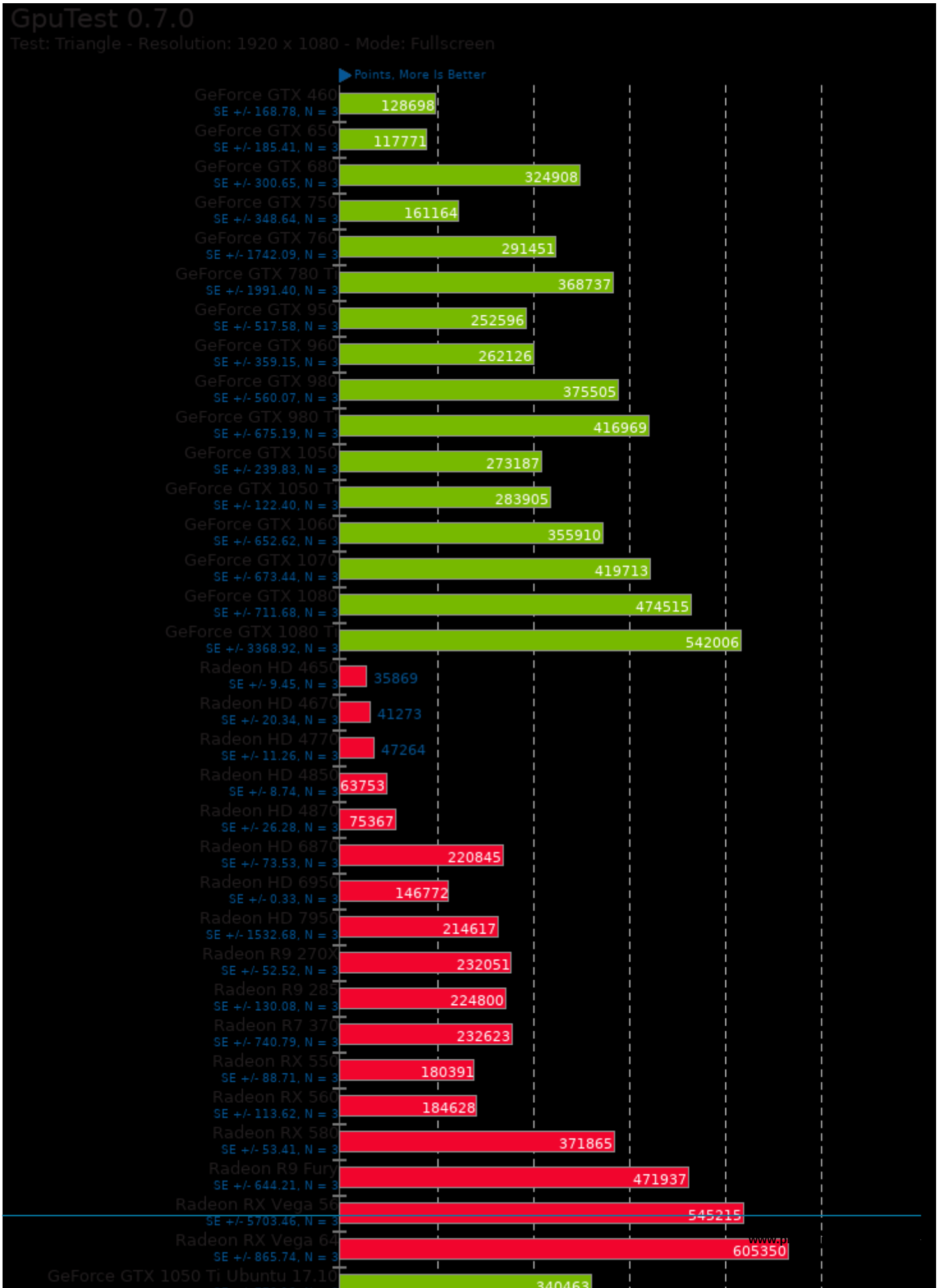
Ubuntu 17.10 AMD Radeon vs. NVIDIA GeForce GPU Comparison

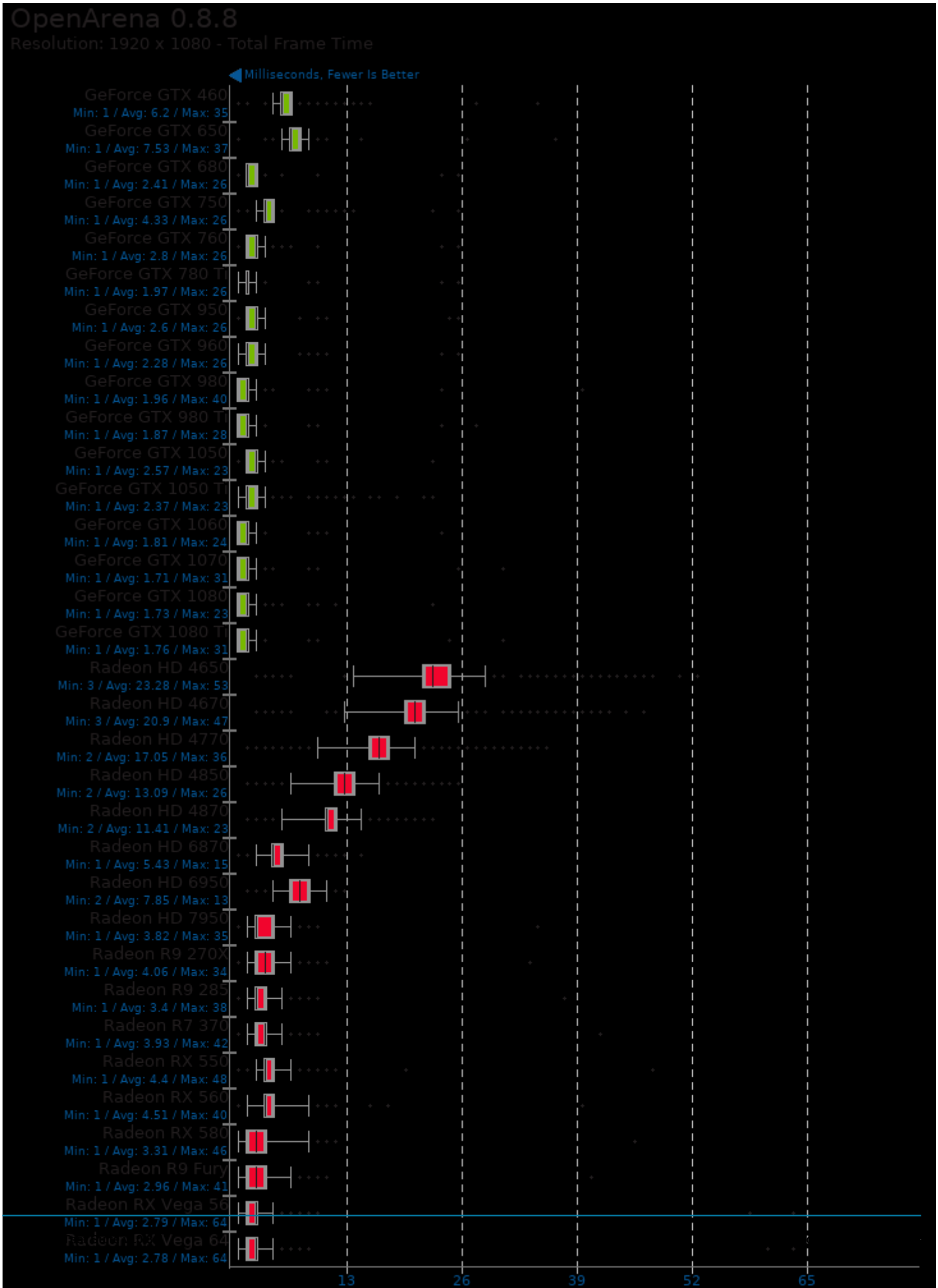
Gpu Test - Triangle - 1920 x 1080 - Fullscreen	1	1	3	1	2	3	2	2	3	4	2	2	3	4	4	5	**3**	4	4	6	7	2	1	2	2	2	2	1	1	3	4	5	**6**	3
	2	1	2	6	9	6	5	6	7	1	7	8	5	1	7	4	**5**	1	7	3	5	2	4	1	3	2	3	8	8	7	7	4	**0**	4
	8	7	4	1	1	8	2	2	5	6	3	3	5	9	4	2	**8**	2	2	7	3	0	6	4	2	4	2	0	4	1	1	5	**5**	0
	6	7	9	1	4	7	5	1	5	9	1	9	9	7	5	0	**6**	7	6	5	6	8	7	6	0	8	6	3	6	8	9	2	**3**	4
	9	7	0	6	5	3	9	2	0	6	8	0	1	1	1	0	**9**	3	4	3	7	4	7	1	5	0	2	9	2	6	3	1	**5**	6
	8	1	8	4	1	7	6	6	5	9	7	5	0	3	5	6						5	2	7	1	0	3	1	8	5	7	5	**0**	3
Normalized	21	19	53	26	48	60	41	43	62	68	45	46	58	69	78	89	5.	6.	7.	10	12	36	24	35	38	37	38	29	30	61	77	90	10	56
	.2	.4	.6	.6	.1	.9	.7	.3	.0	.8	.1	.9	.7	.3	.3	.5	93	82	81	.5	.4	.4	.2	.4	.3	.1	.4	.8	.5	.4	.9	.0	0	.2
	6	6	7	2	5	1	3	%	3	8	3	%	9	3	9	4	%	%	%	3	5	8	5	5	3	4	3	%	%	3	6	7	%	4
Standard Deviation	0.	0.	0.	0.	1	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0	0.	0	0	0.	0.	0	1.	0	0.	0.	0.	0.	0	0.	1.	0.	0.
	2	3	2	4	%	9	4	2	3	3	2	1	3	3	3	1	%	1	%	%	1	1	%	2	%	1	6	1	1	%	2	8	2	4
	%	%	%	%		%	%	%	%	%	%	%	%	%	%	%		%			%	%		%		%	%	%	%		%	%	%	%

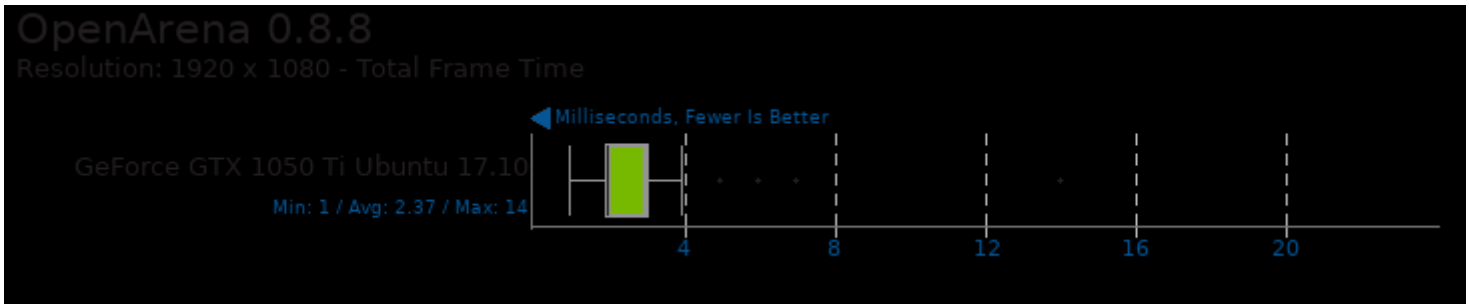

OpenArena 0.8.8
Resolution: 1920 x 1080
Frames Per Second, More Is Better
GeForce GTX 460
SE +/- 2.35, N = 4
153.85
GeForce GTX 650
SE +/- 1.10, N = 3
124.90
GeForce GTX 680
SE +/- 13.11, N = 6
392.55
GeForce GTX 750
SE +/- 3.76, N = 6
222.13
GeForce GTX 760
SE +/- 10.18, N = 6
344.82
GeForce GTX 780 Ti
SE +/- 20.99, N = 6
472.92
GeForce GTX 950
SE +/- 15.44, N = 6
360.23
GeForce GTX 960
SE +/- 19.66, N = 6
406.23
GeForce GTX 980
SE +/- 1.72, N = 3
504.30
GeForce GTX 980 Ti
SE +/- 23.02, N = 6
488.47
GeForce GTX 1050
SE +/- 11.61, N = 6
367.98
GeForce GTX 1050 Ti
SE +/- 13.14, N = 6
402.23
GeForce GTX 1060
SE +/- 4.25, N = 3
540.17
GeForce GTX 1070
SE +/- 21.24, N = 6
537.28
GeForce GTX 1080
SE +/- 10.54, N = 3
573.83
GeForce GTX 1080 Ti
SE +/- 20.82, N = 6
565.08
Radeon HD 4650
SE +/- 0.23, N = 3
41.27
Radeon HD 4670
SE +/- 0.49, N = 3
46.93
Radeon HD 4770
SE +/- 0.75, N = 3
56.00
Radeon HD 4850
SE +/- 0.68, N = 3
72.63
Radeon HD 4870
SE +/- 0.00, N = 3
84.50
Radeon HD 6870
SE +/- 3.10, N = 3
176.23
Radeon HD 6950
SE +/- 0.23, N = 3
120.67
Radeon HD 7950
SE +/- 6.61, N = 6
257.42
Radeon R9 270X
SE +/- 3.53, N = 3
245.60
Radeon R9 285
SE +/- 4.66, N = 3
266.70
Radeon R7 370
SE +/- 0.78, N = 3
251.83
Radeon RX 550
SE +/- 3.69, N = 6
212.98
Radeon RX 560
SE +/- 3.19, N = 5
222.36
Radeon RX 580
SE +/- 8.91, N = 6
299.08
Radeon R9 Fury
SE +/- 9.71, N = 6
321.52
Radeon RX Vega 56
SE +/- 1.47, N = 3
359.73
Radeon RX Vega 64
SE +/- 1.57, N = 3
361.20
GeForce GTX 1050 Ti Ubuntu 17.10


Tesseract 2014-05-12
Resolution: 1920 x 1080
Frames Per Second, More Is Better
GeForce GTX 460
SE +/- 0.50, N = 2
124.43
GeForce GTX 650
116.94
GeForce GTX 680
SE +/- 1.83, N = 3
262.56
GeForce GTX 750
SE +/- 0.21, N = 3
165.20
GeForce GTX 760
SE +/- 1.88, N = 2
235.14
GeForce GTX 780 Ti
SE +/- 3.46, N = 3
329.77
GeForce GTX 950
SE +/- 1.33, N = 2
235.94
GeForce GTX 960
SE +/- 0.67, N = 2
260.90
GeForce GTX 980
SE +/- 0.84, N = 3
354.26
GeForce GTX 980 Ti
SE +/- 6.09, N = 4
377.81
GeForce GTX 1050 Ti
SE +/- 4.27, N = 3
279.03
GeForce GTX 1060
394.99
GeForce GTX 1070
SE +/- 8.94, N = 3
462.98
GeForce GTX 1080
473.65
GeForce GTX 1080 Ti
SE +/- 9.18, N = 2
518.55
Radeon HD 4650
25.03
Radeon HD 4670
SE +/- 0.08, N = 2
28.09
Radeon HD 4770
SE +/- 0.10, N = 3
39.73
Radeon HD 4870
SE +/- 0.19, N = 2
50.92
Radeon HD 6870
SE +/- 0.49, N = 2
137.11
Radeon HD 6950
SE +/- 0.81, N = 2
153.61
Radeon HD 7950
SE +/- 2.32, N = 2
271.03
Radeon R9 270X
SE +/- 0.12, N = 2
260.94
Radeon R9 285
SE +/- 2.63, N = 3
295.21
Radeon R7 370
SE +/- 0.54, N = 2
242.38
Radeon RX 550
SE +/- 3.02, N = 2
181.15
Radeon RX 560
252.03
Radeon RX 580
332.29
Radeon R9 Fury
SE +/- 1.13, N = 3
311.18
Radeon RX Vega 56
SE +/- 7.96, N = 3
441.39
Radeon RX Vega 64
437.72
GeForce GTX 1050 Ti Ubuntu 17.10
SE +/- 1.36, N = 3
304.35
110
220
330
440
550


Unigine Heaven 4.0
Resolution: 1920 x 1080 - Mode: Fullscreen
Frames Per Second, More Is Better
GeForce GTX 460
9.33
GeForce GTX 650
17.25
GeForce GTX 680
48.10
GeForce GTX 750
29.30
GeForce GTX 760
SE +/- 0.10, N = 3
42.96
GeForce GTX 780 Ti
89.05
GeForce GTX 950
48.62
GeForce GTX 960
54.67
GeForce GTX 980
97.02
GeForce GTX 980 Ti
119.50
GeForce GTX 1050
48.61
GeForce GTX 1050 Ti
55.95
GeForce GTX 1060
96.93
GeForce GTX 1070
132.74
GeForce GTX 1080
159.82
GeForce GTX 1080 Ti
191.01
Radeon HD 4650
SE +/- 0.04, N = 3
2.23
Radeon HD 4670
SE +/- 0.05, N = 6
2.50
Radeon HD 4770
SE +/- 0.12, N = 6
3.41
Radeon HD 4850
SE +/- 0.09, N = 6
3.58
Radeon HD 4870
SE +/- 0.05, N = 6
3.37
Radeon HD 6870
SE +/- 0.00, N = 3
9.42
Radeon HD 6950
SE +/- 0.05, N = 3
13.37
Radeon HD 7950
SE +/- 0.06, N = 3
40.01
Radeon R9 270X
SE +/- 0.04, N = 3
35.72
Radeon R9 285
SE +/- 0.02, N = 3
49.97
Radeon R7 370
SE +/- 0.10, N = 3
32.91
Radeon RX 550
SE +/- 0.07, N = 3
23.68
Radeon RX 560
SE +/- 0.08, N = 3
37.89
Radeon RX 580
SE +/- 0.17, N = 3
80.42
Radeon R9 Fury
SE +/- 0.12, N = 3
94.61
Radeon RX Vega 56
SE +/- 0.12, N = 3
112.34
Radeon RX Vega 64
SE +/- 0.12, N = 3
128.26
GeForce GTX 1050 Ti Ubuntu 17.10
56.79


GpuTest 0.7.0
Test: Triangle - Resolution: 1920 x 1080 - Mode: Fullscreen
Points, More Is Better
GeForce GTX 460
SE +/- 168.78, N = 3
128698
GeForce GTX 650
SE +/- 185.41, N = 3
117771
GeForce GTX 680
SE +/- 300.65, N = 3
324908
GeForce GTX 750
SE +/- 348.64, N = 3
161164
GeForce GTX 760
SE +/- 1742.09, N = 3
291451
GeForce GTX 780 Ti
SE +/- 1991.40, N = 3
368737
GeForce GTX 950
SE +/- 517.58, N = 3
252596
GeForce GTX 960
SE +/- 359.15, N = 3
262126
GeForce GTX 980
SE +/- 560.07, N = 3
375505
GeForce GTX 980 Ti
SE +/- 675.19, N = 3
416969
GeForce GTX 1050
SE +/- 239.83, N = 3
273187
GeForce GTX 1050 Ti
SE +/- 122.40, N = 3
283905
GeForce GTX 1060
SE +/- 652.62, N = 3
355910
GeForce GTX 1070
SE +/- 673.44, N = 3
419713
GeForce GTX 1080
SE +/- 711.68, N = 3
474515
GeForce GTX 1080 Ti
SE +/- 3368.92, N = 3
542006
Radeon HD 4650
SE +/- 9.45, N = 3
35869
Radeon HD 4670
SE +/- 20.34, N = 3
41273
Radeon HD 4770
SE +/- 11.26, N = 3
47264
Radeon HD 4850
SE +/- 8.74, N = 3
63753
Radeon HD 4870
SE +/- 26.28, N = 3
75367
Radeon HD 6870
SE +/- 73.53, N = 3
220845
Radeon HD 6950
SE +/- 0.33, N = 3
146772
Radeon HD 7950
SE +/- 1532.68, N = 3
214617
Radeon R9 270X
SE +/- 52.52, N = 3
232051
Radeon R9 285
SE +/- 130.08, N = 3
224800
Radeon R7 370
SE +/- 740.79, N = 3
232623
Radeon RX 550
SE +/- 88.71, N = 3
180391
Radeon RX 560
SE +/- 113.62, N = 3
184628
Radeon RX 580
SE +/- 53.41, N = 3
371865
Radeon R9 Fury
SE +/- 644.21, N = 3
471937
Radeon RX Vega 56
SE +/- 5703.46, N = 3
545215
Radeon RX Vega 64
SE +/- 865.74, N = 3
605350
GeForce GTX 1050 Ti Ubuntu 17.10
340463


OpenArena 0.8.8
Resolution: 1920 x 1080 - Total Frame Time
Milliseconds, Fewer Is Better
GeForce GTX 460
Min: 1 / Avg: 6.2 / Max: 35
GeForce GTX 650
Min: 1 / Avg: 7.53 / Max: 37
GeForce GTX 680
Min: 1 / Avg: 2.41 / Max: 26
GeForce GTX 750
Min: 1 / Avg: 4.33 / Max: 26
GeForce GTX 760
Min: 1 / Avg: 2.8 / Max: 26
GeForce GTX 780 Ti
Min: 1 / Avg: 1.97 / Max: 26
GeForce GTX 950
Min: 1 / Avg: 2.6 / Max: 26
GeForce GTX 960
Min: 1 / Avg: 2.28 / Max: 26
GeForce GTX 980
Min: 1 / Avg: 1.96 / Max: 40
GeForce GTX 980 Ti
Min: 1 / Avg: 1.87 / Max: 28
GeForce GTX 1050
Min: 1 / Avg: 2.57 / Max: 23
GeForce GTX 1050 Ti
Min: 1 / Avg: 2.37 / Max: 23
GeForce GTX 1060
Min: 1 / Avg: 1.81 / Max: 24
GeForce GTX 1070
Min: 1 / Avg: 1.71 / Max: 31
GeForce GTX 1080
Min: 1 / Avg: 1.73 / Max: 23
GeForce GTX 1080 Ti
Min: 1 / Avg: 1.76 / Max: 31
Radeon HD 4650
Min: 3 / Avg: 23.28 / Max: 53
Radeon HD 4670
Min: 3 / Avg: 20.9 / Max: 47
Radeon HD 4770
Min: 2 / Avg: 17.05 / Max: 36
Radeon HD 4850
Min: 2 / Avg: 13.09 / Max: 26
Radeon HD 4870
Min: 2 / Avg: 11.41 / Max: 23
Radeon HD 6870
Min: 1 / Avg: 5.43 / Max: 15
Radeon HD 6950
Min: 2 / Avg: 7.85 / Max: 13
Radeon HD 7950
Min: 1 / Avg: 3.82 / Max: 35
Radeon R9 270X
Min: 1 / Avg: 4.06 / Max: 34
Radeon R9 285
Min: 1 / Avg: 3.4 / Max: 38
Radeon R7 370
Min: 1 / Avg: 3.93 / Max: 42
Radeon RX 550
Min: 1 / Avg: 4.4 / Max: 48
Radeon RX 560
Min: 1 / Avg: 4.51 / Max: 40
Radeon RX 580
Min: 1 / Avg: 3.31 / Max: 46
Radeon R9 Fury
Min: 1 / Avg: 2.96 / Max: 41
Radeon RX Vega 56
Min: 1 / Avg: 2.79 / Max: 64
Radeon RX Vega 64
Min: 1 / Avg: 2.78 / Max: 64
13
26
39
52
65



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