



30-Way Ubuntu 14.04 AMD / NVIDIA Linux Graphics Card Comparison

Running pts/unigine-sanctuary-1.5.2, pts/unigine-tropics-1.5.3, pts/unigine-heaven-1.5.3, pts/unigine-valley-1.0.3, pts/xonotic-1.3.1, pts/gputest-1.2.0, pts/cstrike-1.0.0, pts/nexuiz-1.6.1, pts/openarena-1.5.2, pts/reaction-1.0.5, pts/unigine-heaven-1.5.2, pts/unigine-valley-1.0.1, pts/unvanquished-1.1.0, pts/warsow-1.4.1, pts/luxmark-1.0.0, pts/unigine-valley-1.1.1, pts/gputest-1.3.0, pts/csgo-1.0.1, pts/tf2-1.0.3, pts/xonotic-1.4.0, pts/gputest-1.3.1 via the Phoronix Test Suite.

Automated Executive Summary

GeForce GTX 780 Ti had the most wins, coming in first place for 85% of the tests.

Based on the geometric mean of all complete results, the fastest (GeForce GTX 780 Ti) was 50.107x the speed of the slowest (GeForce 8500GT).

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

Unigine Heaven (Resolution: 1280 x 1024) at 75.136x

Unigine Sanctuary (Resolution: 1920 x 1080) at 72.593x

GpuTest (Test: Furmark - Resolution: 1920 x 1080) at 70.488x

Unigine Tropics (Resolution: 1920 x 1080) at 55.512x

Unigine Valley (Resolution: 1280 x 1024) at 53.584x

Xonotic (Resolution: 1920 x 1080 - Effects Quality: Ultimate) at 29.154x

Xonotic (Resolution: 1920 x 1080 - Effects Quality: Ultra) at 23.846x
Reaction Quake 3 (Resolution: 1920 x 1080 - Total Frame Time) at 7.5x
Reaction Quake 3 (Resolution: 2560 x 1600 - Total Frame Time) at 7x
Unvanquished (Resolution: 1920 x 1080 - Total Frame Time) at 5.182x.

Test Systems:

Radeon HD 5830

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: ATI Radeon HD 5800 1024MB (800/1000MHz), Audio: Realtek ALC889, Monitor: VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: fglrx 13.35.5, OpenGL: 4.3.12780, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

Radeon HD 6450

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: HIS AMD Radeon HD 6450 1024MB (625/667MHz), Audio: Realtek ALC889, Monitor: VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: fglrx 13.35.5, OpenGL: 4.3.12780, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

Radeon HD 6770

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: Sapphire AMD Radeon HD 6700 1024MB (850/1200MHz), Audio: Realtek ALC889, Monitor: VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: fglrx 13.35.5, OpenGL: 4.3.12780, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

Radeon HD 6870

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: Sapphire AMD Radeon HD 6800 1024MB (900/1050MHz), Audio: Realtek ALC889, Monitor: VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display

Driver: fglrx 13.35.5, OpenGL: 4.3.12780, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

Radeon HD 6950

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: Sapphire AMD Radeon HD 6900 2048MB (800/1250MHz), Audio: Realtek ALC889, Monitor: VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: fglrx 13.35.5, OpenGL: 4.3.12780, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

Radeon HD 7850

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: ASUS AMD Radeon HD 7800 1024MB (860/1200MHz), Audio: Realtek ALC889, Monitor: VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: fglrx 13.35.5, OpenGL: 4.3.12780, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

Radeon HD 7950

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: XFX AMD Radeon HD 7900 3072MB (900/1375MHz), Audio: Realtek ALC889, Monitor: VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: fglrx 13.35.5, OpenGL: 4.3.12780, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

Radeon R7 260X

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: Sapphire AMD Radeon R7 200 2048MB (1150/1650MHz), Audio: Realtek ALC889, Monitor: VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: fglrx 13.35.5, OpenGL: 4.3.12780, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

Radeon R9 270X

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: Supported device 6810 2048MB (1100/1400MHz), Audio: Realtek ALC889, Monitor: VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: fglrx 13.35.5, OpenGL: 4.3.12780, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

Radeon R9 290

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: XFX AMD Radeon R9 290 4096MB (947/1250MHz), Audio: Realtek ALC889, Monitor: VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: fglrx 13.35.5, OpenGL: 4.3.12780, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce 8500GT

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: Gigabyte NVIDIA GeForce 8500 GT 256MB (500/400MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 3.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce 8600GT

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: ASUS NVIDIA GeForce 8600 GT 256MB (540/700MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 3.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce 8800GT

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: ECS NVIDIA GeForce 8800 GT 256MB (600/700MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 3.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce 9500GT

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: ASUS NVIDIA GeForce 9500 GT 1024MB

(550/400MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 3.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce 9600GSO

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: XFX NVIDIA GeForce 9600 GSO 512MB (500/900MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 3.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce 9800GT

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: MSI NVIDIA GeForce 9800 GT 512MB (660/950MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 3.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce 9800GTX

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: NVIDIA GeForce 9800 GTX/9800 GTX+ 512MB (675/1100MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 3.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce GT 220

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: XFX NVIDIA GeForce GT 220 1024MB (625/400MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 3.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce GTX 460

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: ASUS NVIDIA GeForce GTX 460 768MB (675/1800MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce GT 520

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: eVGA NVIDIA GeForce GT 520 1024MB (810/500MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce GTX 550 Ti

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: eVGA NVIDIA GeForce GTX 550 Ti 1024MB (951/2178MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce GT 610

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: Zotac NVIDIA GeForce GT 610 1024MB (810/533MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce GTX 650

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: MSI NVIDIA GeForce GTX 650 1024MB (1084/2500MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce GTX 680

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: NVIDIA GeForce GTX 680 2048MB (705/3004MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce GTX 750

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: eVGA NVIDIA GeForce GTX 750 1024MB (540/2505MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce GTX 750 Ti

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: NVIDIA GeForce GTX 750 Ti 2048MB (540/2700MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce GTX 760

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: NVIDIA GeForce GTX 760 2048MB (540/3004MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce GTX 770

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: NVIDIA GeForce GTX 770 2048MB (540/3505MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce GTX 780 Ti

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: NVIDIA GeForce GTX 780 Ti 3072MB (549/3500MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce GTX TITAN

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD RD890 bridge, Memory: 8192MB, Disk: 240GB OCZ VERTEX3, Graphics: NVIDIA GeForce GTX TITAN 6144MB (575/3004MHz), Audio: Realtek ALC889, Monitor: Ancor VE228, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 14.04, Kernel: 3.13.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.15.0, Display Driver: NVIDIA 334.21, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

lonestar_first_test

Processor: Intel Core i5 750 @ 2.67GHz (4 Cores), Motherboard: ASUS P7P55D, Chipset: Intel Core DMI, Memory: 12288MB, Disk: 250GB HDS722525VLSA80 + 1500GB SAMSUNG HD154UI + 200GB Seagate ST3200822AS, Graphics: ASUS NVIDIA GeForce 9500 GT 1024MB (550/400MHz), Audio: VIA VT1828S, Monitor: DELL 2209WA, Network: Realtek RTL8111/8168/8411 + Qualcomm Atheros AR922X Wireless

OS: Ubuntu 12.04, Kernel: 3.8.0-39-generic (x86_64), Desktop: Xfce 4.8, Display Server: X Server 1.14.5, Display Driver: NVIDIA 331.20, OpenGL: 3.3.0, Compiler: GCC 4.6.3 + CUDA 5.5, File-System: ext4, Screen Resolution: 1680x1050

Environment Notes: LIBGLADE_MODULE_PATH=:

GTS450

Processor: Intel Pentium G3258 @ 3.20GHz (2 Cores), Motherboard: MSI H81M-P33 (MS-7817) v1.0, Chipset: Intel 4th Gen Core DRAM, Memory: 16384MB, Disk: 320GB Hitachi HDT72103 + 500GB Western Digital WD5000AADS-6, Graphics: NVIDIA GeForce GTS 450 1024MB (405/324MHz), Audio: Realtek ALC887-VD, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.4.0-21-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.3, Display Driver: NVIDIA 364.19, OpenGL: 4.5.0, Compiler: GCC 5.3.1 20160413 + CUDA 7.5, File-System: ext4, Screen Resolution: 1680x1050

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 powersave
Graphics Notes: 2x

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www.phoronix-test-suite.com

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www.phoronix-test-suite.com

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Phoronix Test Suite v10.8.5 www.phoronix-test-suite.com

Unigine	30	4.	25	40	45	42	52	39	52	53	1.54	2.94	6.65	4.16	5.22	14.9	16.9	5.93	30.8	5.17	26.8	5.22	28.5	77.6	42.3	48.5	70.8	80.5	82.5	81.7	4.14	1.1	
Valley	6		1	5	9	7	9	2	1	6						0	4		6		8		7	8	4	4	2	9	2	5		2	
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Normali	37.	5.0	30.	49.	55.	50.	63.	48.	63.	65.	1.8	3.5	8.0	5.0	6.3	18.	20.	7.1	37.	6.2	32.	6.3	34.	94.	51.	58.	85.	97.	10	99.	5.0	2	
zed	4%	7%	67	5%	61	98	73	01	88	27	7%	6%	6%	4%	3%	06	53	9%	4%	7%	57	3%	62	13	31	82	82	66	0%	07	2%	8	
Standar	0.1	0%	~	0.1	~	0.4	~	0%	~	1.7	~	0.6	0.2	1%	0.1	0%	~	0%	0.1	0.2	0.1	~	0.3	~	~	~	~	~	0.3	~	0.1	0	
d	%		%	%	%			%	%	%	%	%		%		%		%	%	%		%	%	%	%	%	%	%	%	%	%	%	
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Unigine	16	2.	13	20	30	34	58	35	52	71	1.54	2.15	4.24	4.28	4.85	11.1	11.8	4.96	26.1	3.72	23.0	3.73	25.2	71.6	40.8	47.2	63.8	75.3	11.5	11.2	4.26	1.1	
Heaven	7		3	5	7	2	6	8	5	2						4	0		9		8		5	7	2	3	0	5	71	83		4	
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zed	58	2%	26	67	68	57	52	4%	98	38	3%	6%	6%	%	9%	3%	2%	9%	63	1%	95	2%	82	94	28	82	14	12	0%	51	8%	1	
Standar	~	0%	0.1	~	~	~	~	0%	0.1	~	3.5	5.2	10.	0.3	0.2	7.2	8%	0.3	0.5	0.2	~	~	~	~	~	~	~	~	~	~	0.6	0.3	0
d	%	%	%	%	%		%	%		%	%	%	6%	%	%	%		%	%	%	%		%	%	%	%	%	%	%	%	%	%	
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Unigine	63	8.	53	84	10	91	13	81	12	14	3.75	5.20	8.41	10.2	13.6	40.9	46.7	11.0	66.7	9.31	57.1	9.42	56.6	17.3	82.7	94.1	15.2	18.4	20.7	20.8	10.8	3.1	
Tropic	9		5	4	56	5	80	5	64	71				5	5	0	1	2	9		4		7	56	7	8	94	03	72	17	5	0	
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zed	74	5%	63	61	79	07	83	37	43	48	%	%	4%	2%	6%	65	44	9%	08	7%	45	3%	22	37	76	24	47	4%	78	0%	1%	7	
Standar	~	0.1	~	~	~	~	~	~	~	~	0.1	6.2	5.8	0%	0%	~	~	0%	~	0%	~	~	~	~	~	~	~	~	~	~	0.3	0.3	0
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Unigin	81	10	63	10	12	11	18	11	16	20	4.	8.	15	10	13	38	44	13	80	11	63	11	66	21	88	10	18	23	31	30	10	3
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Sanct	3	8	4	17	88	59	78	89	29	05			4	0	9	6	2	4	5	6	9	0	3	38	3	60	96	81	60	61	3	3
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Normali	25.	3.4	20.	31.	40.	37.	59.	36.	53.	65.	1.3	2.6	5.0	3.2	4.3	12.	14.	4.4	25.	3.5	20.	3.6	21.	69.	28.	33.	58.	74.	10	97.	3.3	1
zed	84	1%	13	94	46	18	24	95	66	39	8%	%	8%	8%	7%	17	04	5%	65	9%	4%	%	09	32	17	35	02	24	0%	45	3%	6
Standar	0%	0%	0%	0%	0.4	0%	0.1	0%	0%	0.7	0.4	5.3	7%	0.2	0.1	0.1	0.1	0%	0.1	0.1	0.1	0.1	0%	0.5	0%	0.1	0.2	0.8	0.4	1.4	0%	0
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GpuTest 0.7.0

Test: Triangle - Resolution: 1920 x 1080 - Mode: Fullscreen



GpuTest 0.7.0

Test: Furmark - Resolution: 1920 x 1080 - Mode: Fullscreen



GpuTest 0.7.0

Test: Plot3D - Resolution: 1920 x 1080 - Mode: Fullscreen



Xonotic 0.8

Resolution: 1920 x 1080 - Effects Quality: Ultra



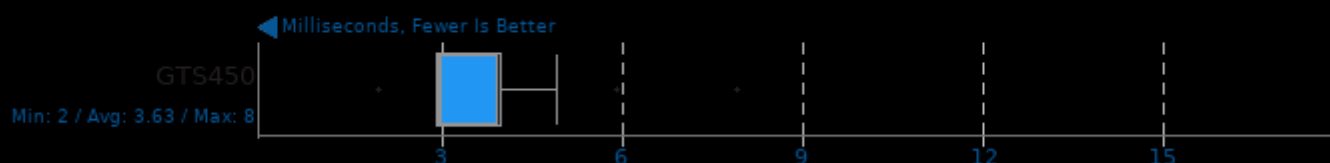
Xonotic 0.8

Resolution: 1920 x 1080 - Effects Quality: High



OpenArena 0.8.8

Resolution: 1920 x 1080 - Total Frame Time

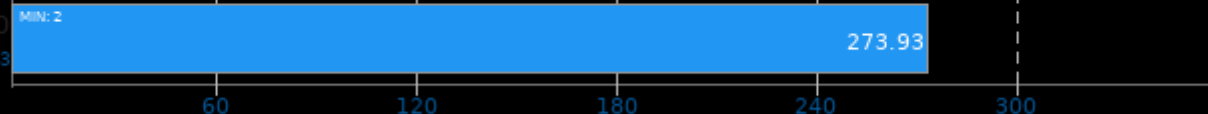


OpenArena 0.8.8

Resolution: 1920 x 1080

► Frames Per Second, More Is Better

GTS450
SE +/- 0.47, N = 3



GpuTest 0.7.0

Test: Furmark - Resolution: 2560 x 1600

► Points, More Is Better

GTS450
SE +/- 0.33, N = 3



Unigine Valley 1.0

Resolution: 1920 x 1080

► Frames Per Second, More Is Better

GTS450
SE +/- 0.01, N = 3

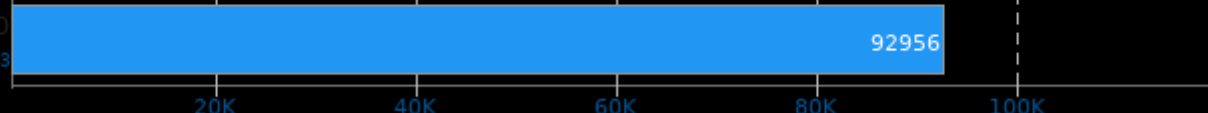


GpuTest 0.6.0

Test: Triangle - Resolution: 1920 x 1080

► Points, More Is Better

GTS450
SE +/- 10.87, N = 3

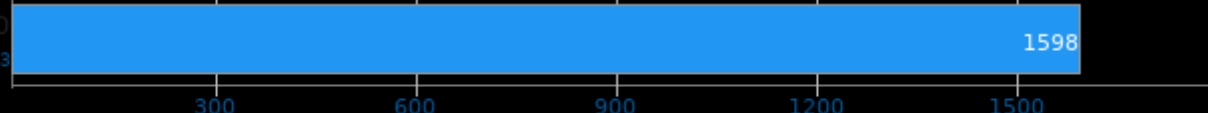


GpuTest 0.6.0

Test: TessMark - Resolution: 1920 x 1080

► Points, More Is Better

GTS450
SE +/- 0.00, N = 3



GpuTest 0.6.0

Test: GiMark - Resolution: 1920 x 1080

► Points, More Is Better

GTS450
SE +/- 209.40, N = 6



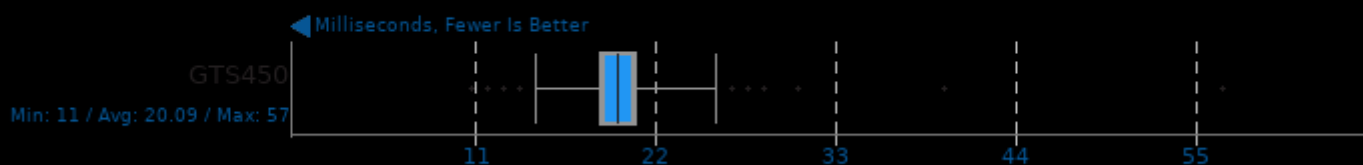
Xonotic 0.7

Resolution: 1920 x 1080 - Effects Quality: High



Unvanquished Alpha 21

Resolution: 1920 x 1080 - Total Frame Time



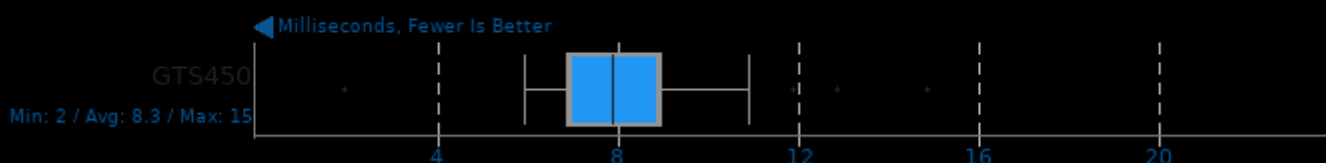
Unvanquished Alpha 21

Resolution: 1920 x 1080



Reaction Quake 3 1.0 Beta

Resolution: 1920 x 1080 - Total Frame Time



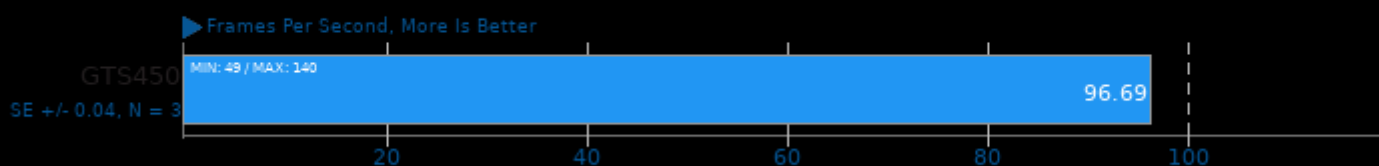
Reaction Quake 3 1.0 Beta

Resolution: 1920 x 1080



Xonotic 0.7

Resolution: 2560 x 1600 - Effects Quality: Ultra



LuxMark 2.1beta1

OpenCL Device: GPU - Scene: Luxball HDR



LuxMark 2.1beta1

OpenCL Device: GPU - Scene: Sala



LuxMark 2.1beta1

OpenCL Device: GPU - Scene: Room



GpuTest 0.6.0

Test: Pixmark Volplosion - Resolution: 2560 x 1600



GpuTest 0.6.0

Test: Pixmark Piano - Resolution: 2560 x 1600



GpuTest 0.6.0

Test: TessMark - Resolution: 2560 x 1600



GpuTest 0.6.0

Test: Furmark - Resolution: 2560 x 1600



GpuTest 0.6.0

Test: GiMark - Resolution: 2560 x 1600



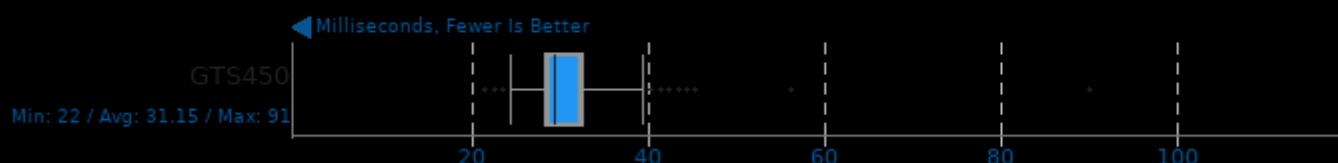
Xonotic 0.7

Resolution: 2560 x 1600 - Effects Quality: Ultimate



Unvanquished Alpha 21

Resolution: 2560 x 1600 - Total Frame Time



Unvanquished Alpha 21

Resolution: 2560 x 1600



Unigine Valley 1.0

Resolution: 1920 x 1080



Unigine Tropics 1.3

Resolution: 2560 x 1600



Unigine Sanctuary 2.3

Resolution: 2560 x 1600



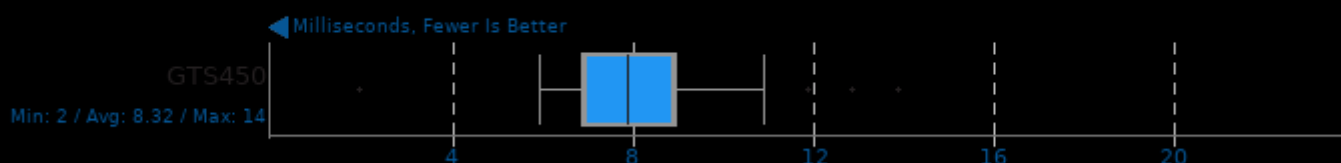
Unigine Heaven 4.0

Resolution: 1920 x 1080



Reaction Quake 3 1.0 Beta

Resolution: 2560 x 1600 - Total Frame Time



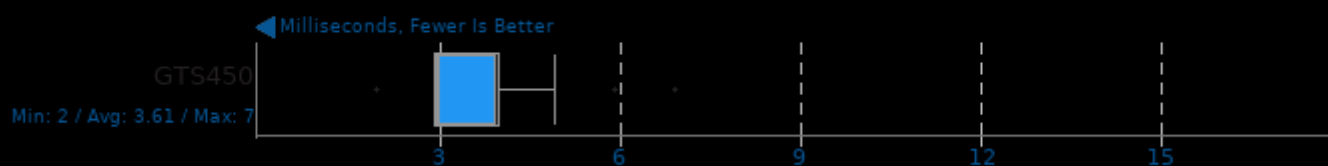
Reaction Quake 3 1.0 Beta

Resolution: 2560 x 1600



OpenArena 0.8.8

Resolution: 2560 x 1600 - Total Frame Time



OpenArena 0.8.8

Resolution: 2560 x 1600



Nexuiz 2.5.2

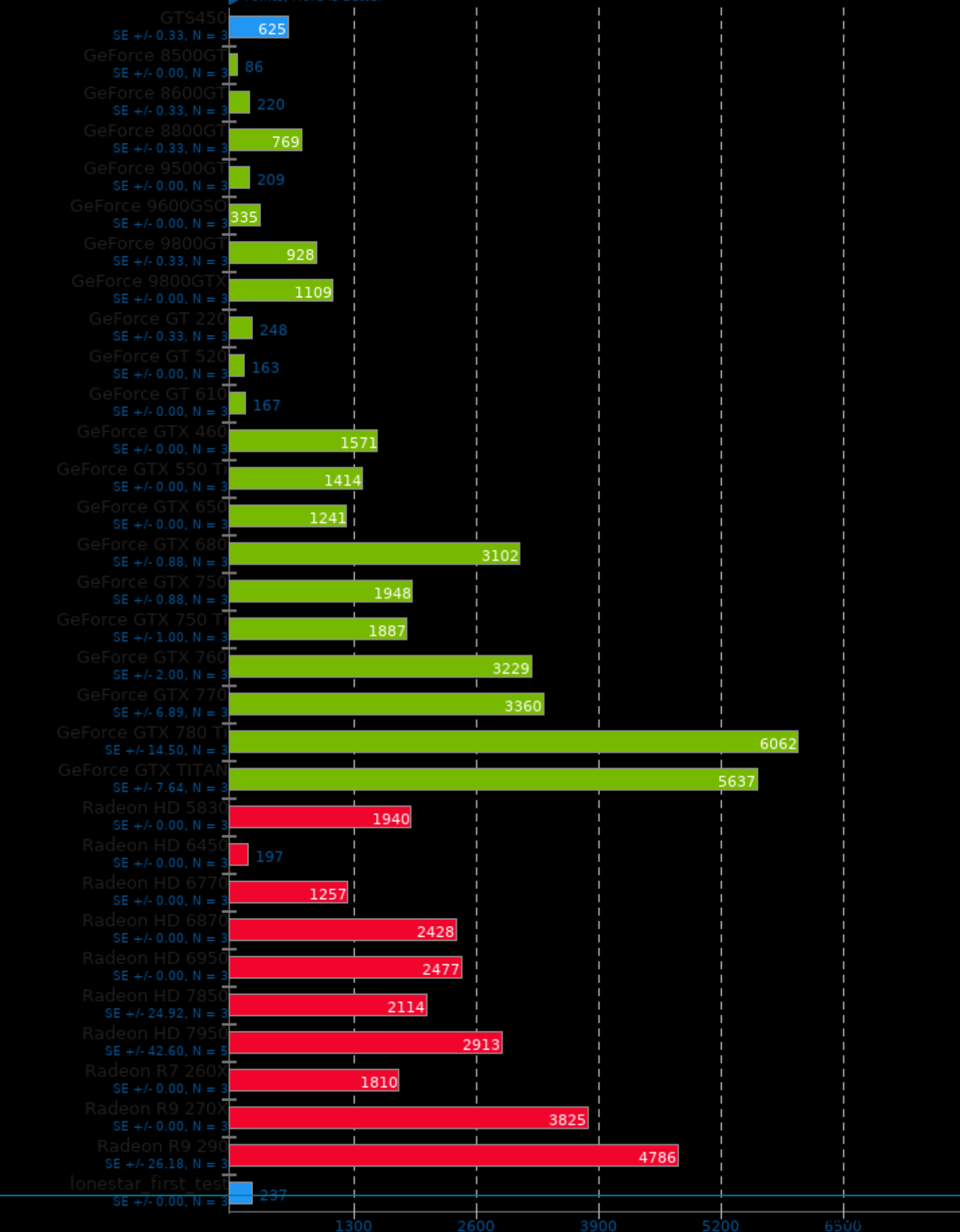
Resolution: 2560 x 1600 - HDR: Yes - Sound: Off



GpuTest 0.6.0

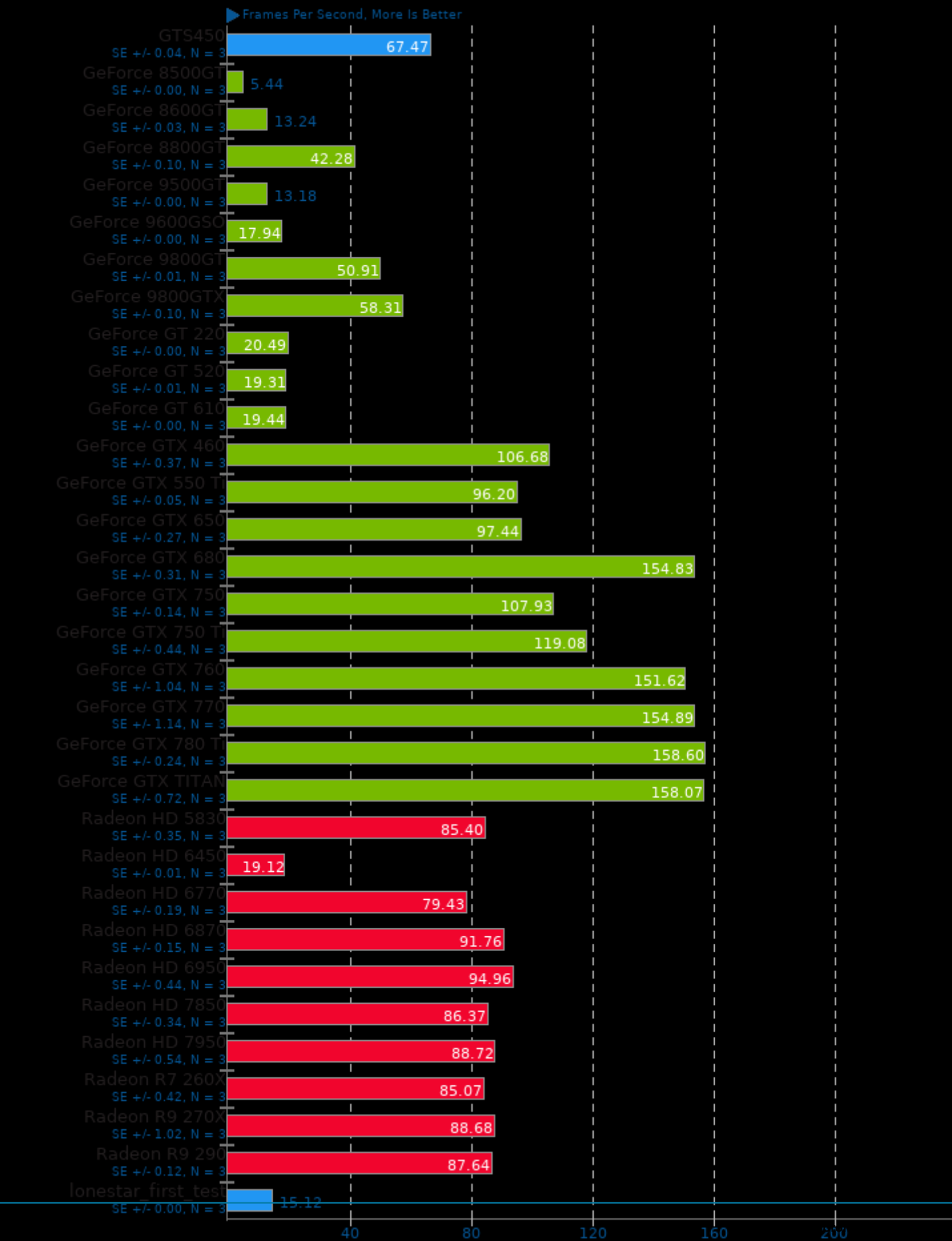
Test: Furmark - Resolution: 1920 x 1080

► Points, More Is Better



Xonotic 0.7

Resolution: 1920 x 1080 - Effects Quality: Ultimate



Xonotic 0.7

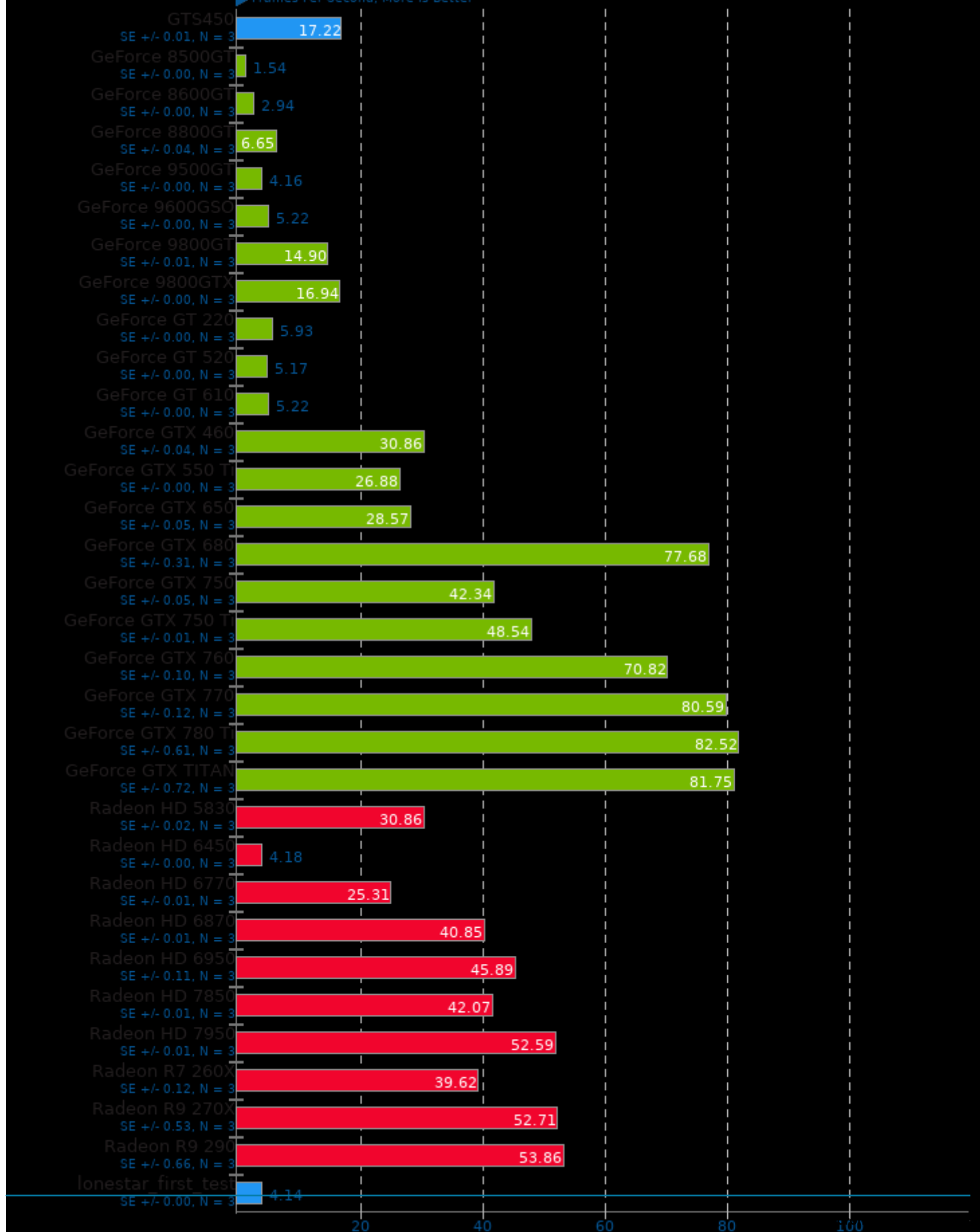
Resolution: 1920 x 1080 - Effects Quality: Ultra



Unigine Valley 1.0

Resolution: 1280 x 1024

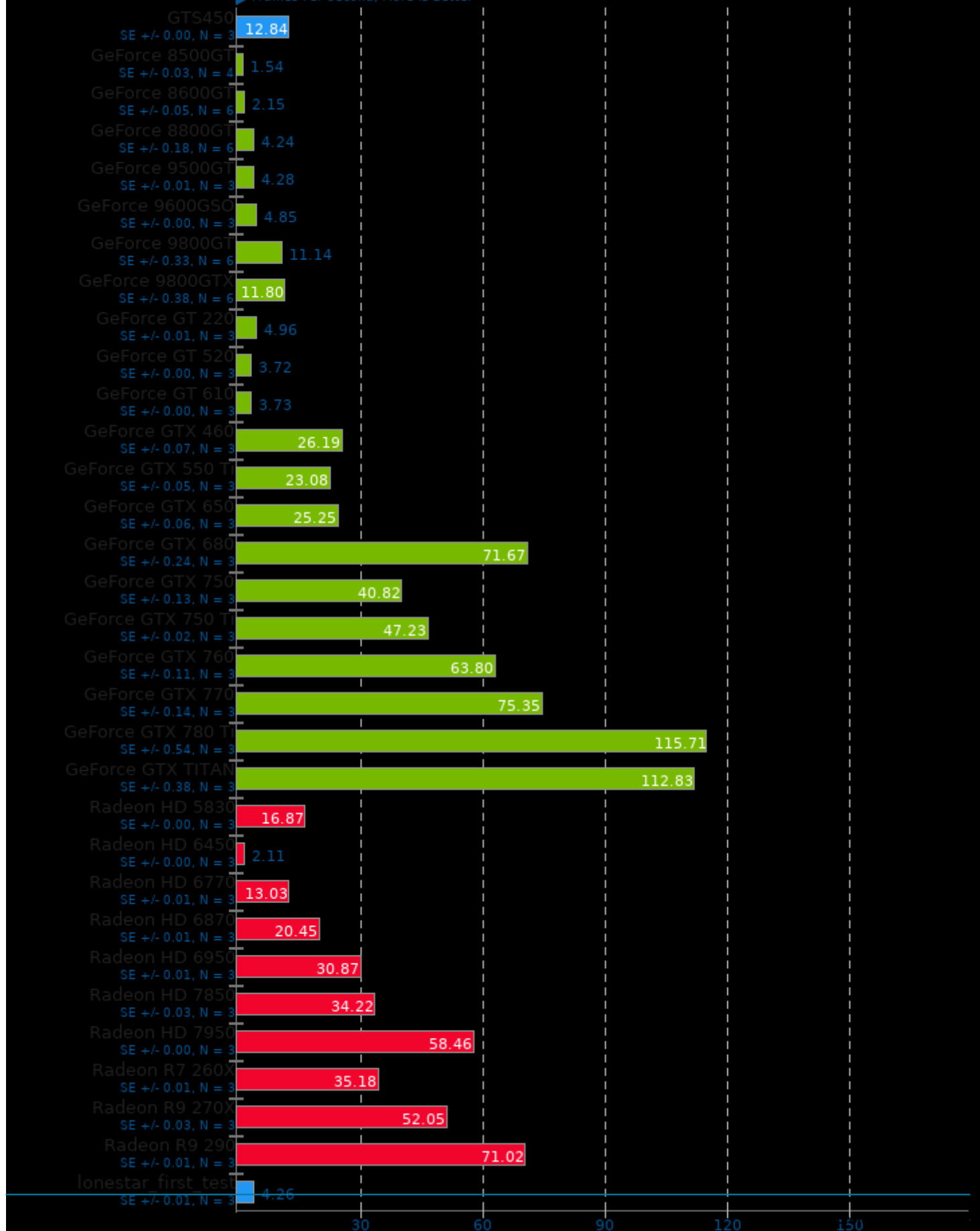
► Frames Per Second, More Is Better



Unigine Heaven 4.0

Resolution: 1280 x 1024

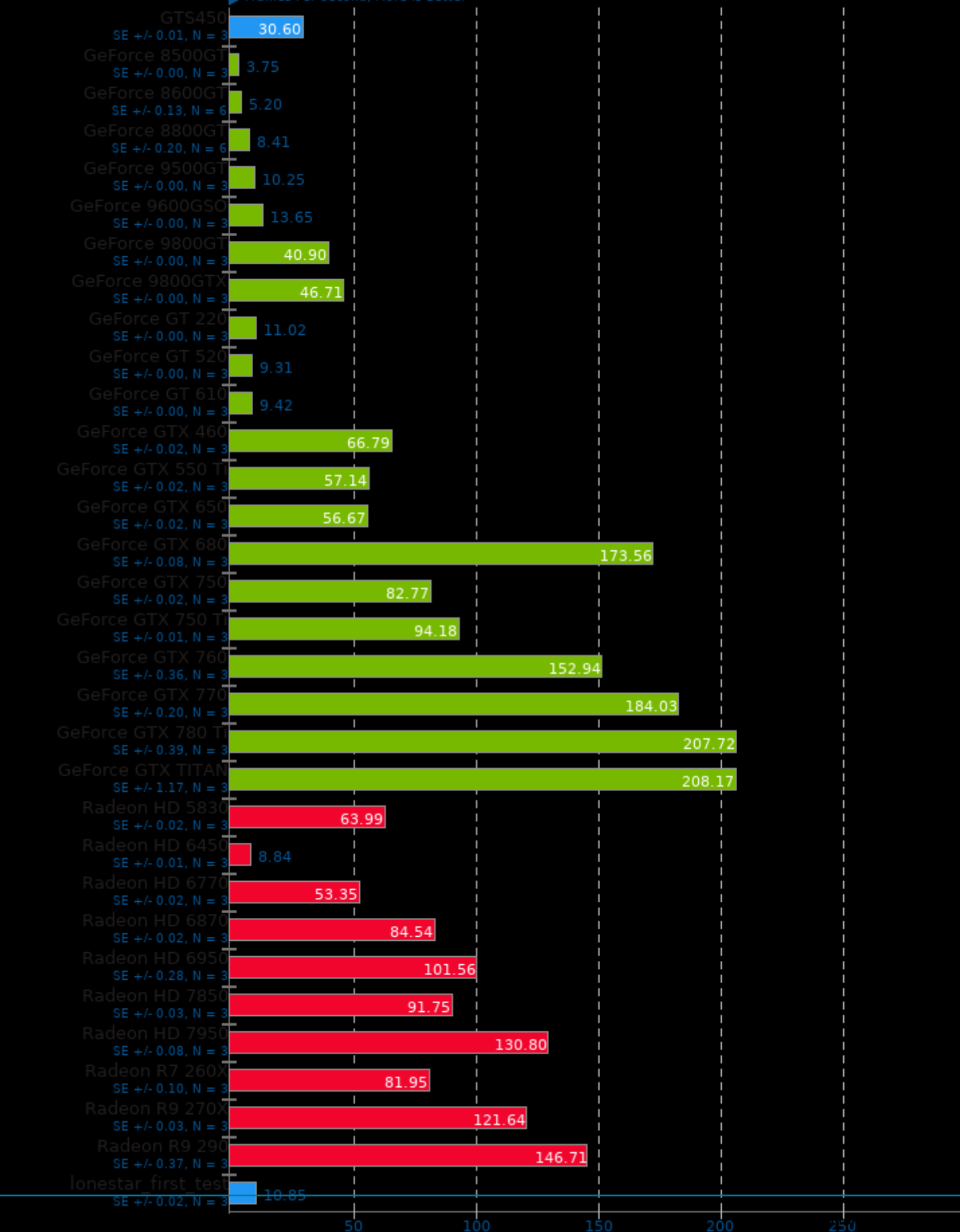
► Frames Per Second, More Is Better



Unigine Tropics 1.3

Resolution: 1920 x 1080

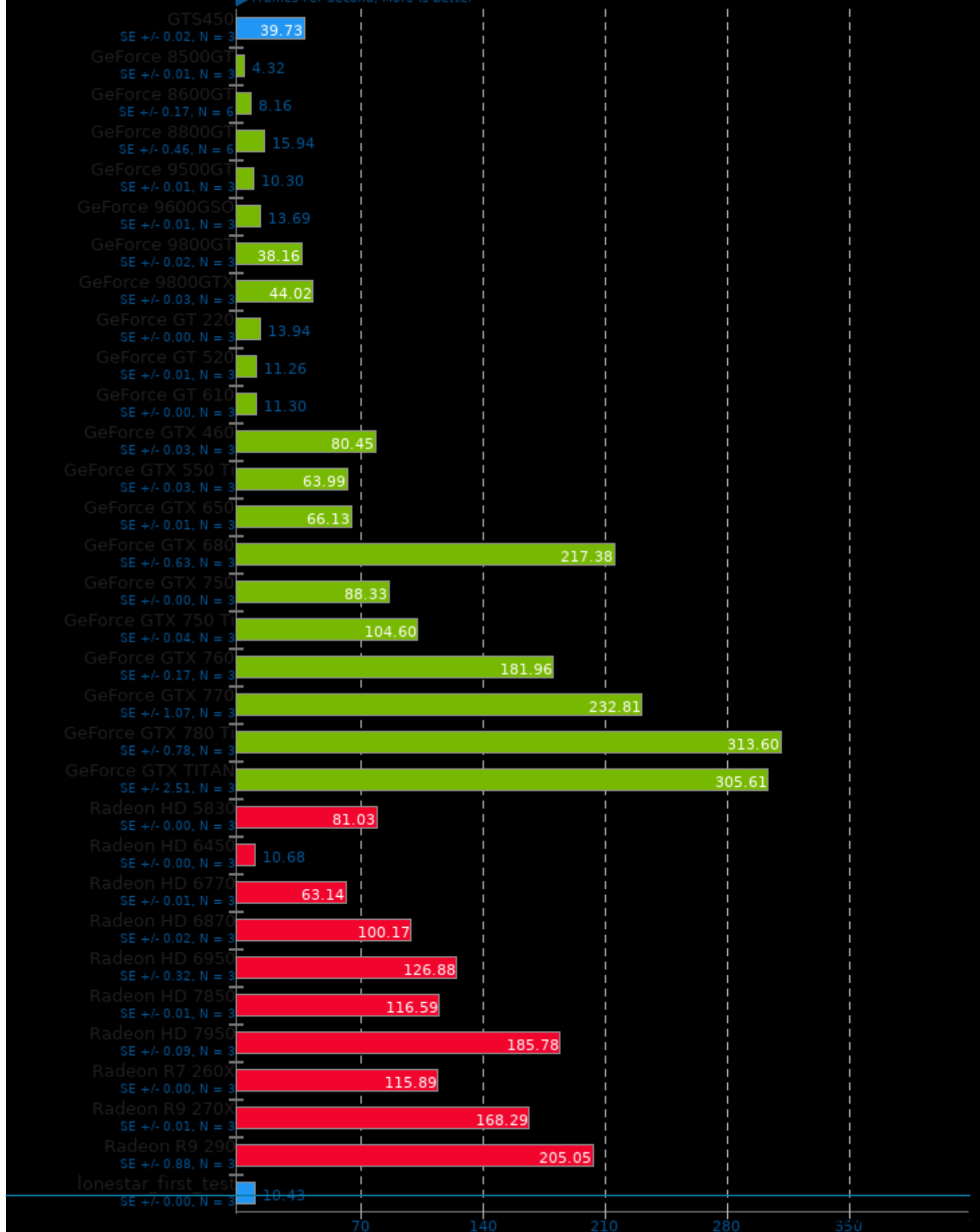
► Frames Per Second, More Is Better



Unigine Sanctuary 2.3

Resolution: 1920 x 1080

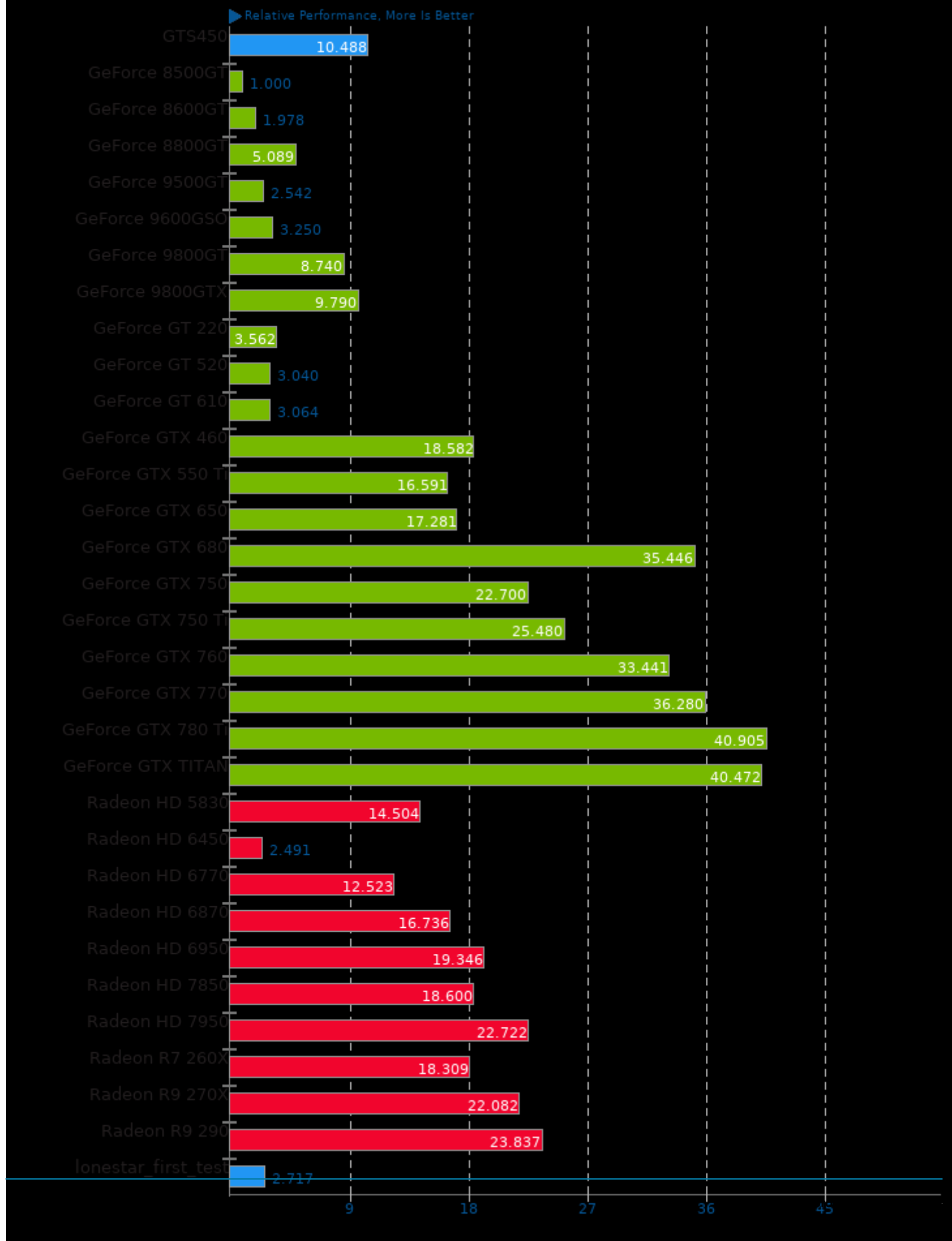
► Frames Per Second, More Is Better



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

Geometric Mean Of Desktop Graphics Tests

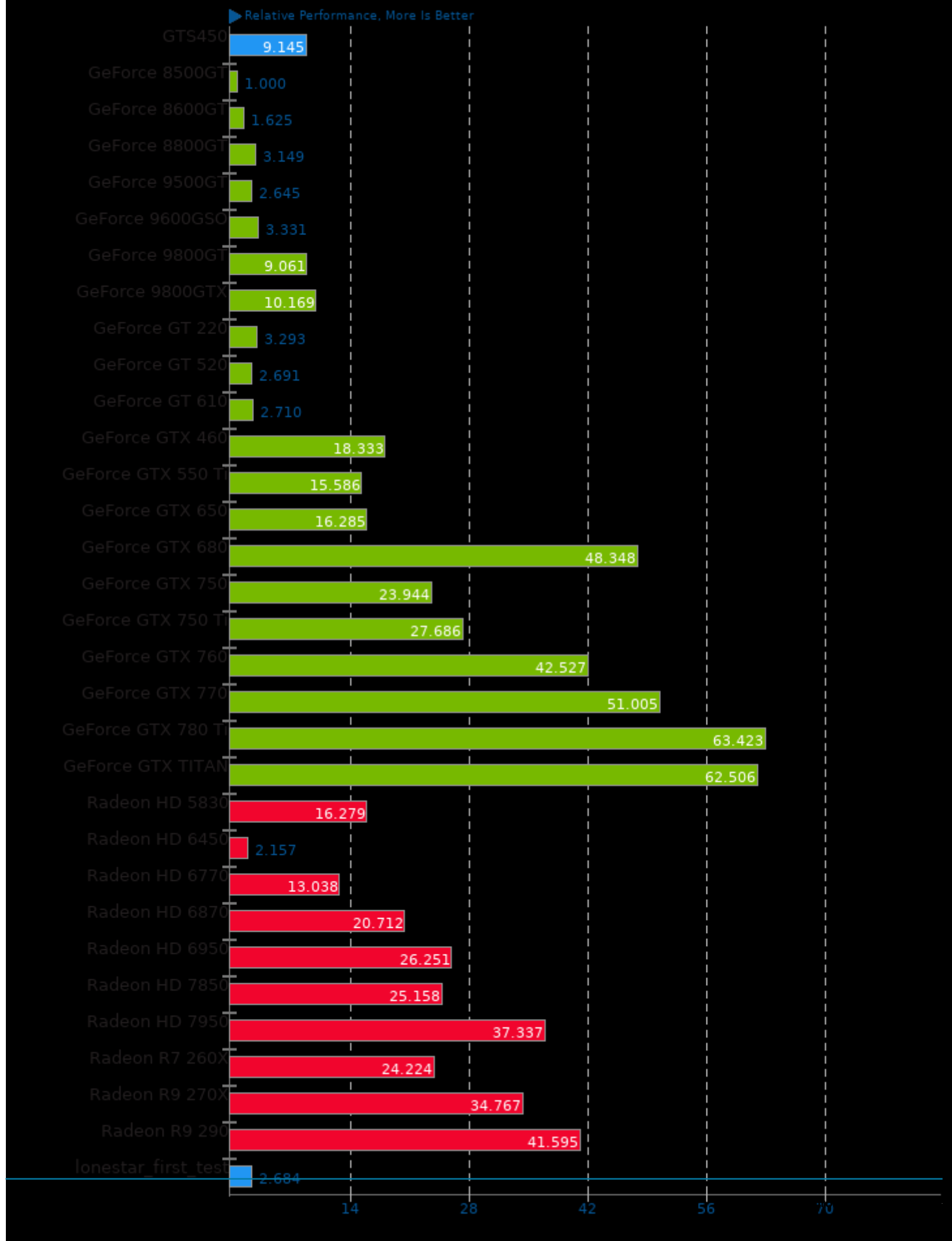
Result Composite - 30-Way Ubuntu 14.04 AMD / NVIDIA Linux Graphics Card Comparison



Geometric mean based upon tests: pts/xonotic, pts/openarena, pts/unigine-valley and pts/unigine-heaven

Geometric Mean Of OpenGL Demos Test Suite

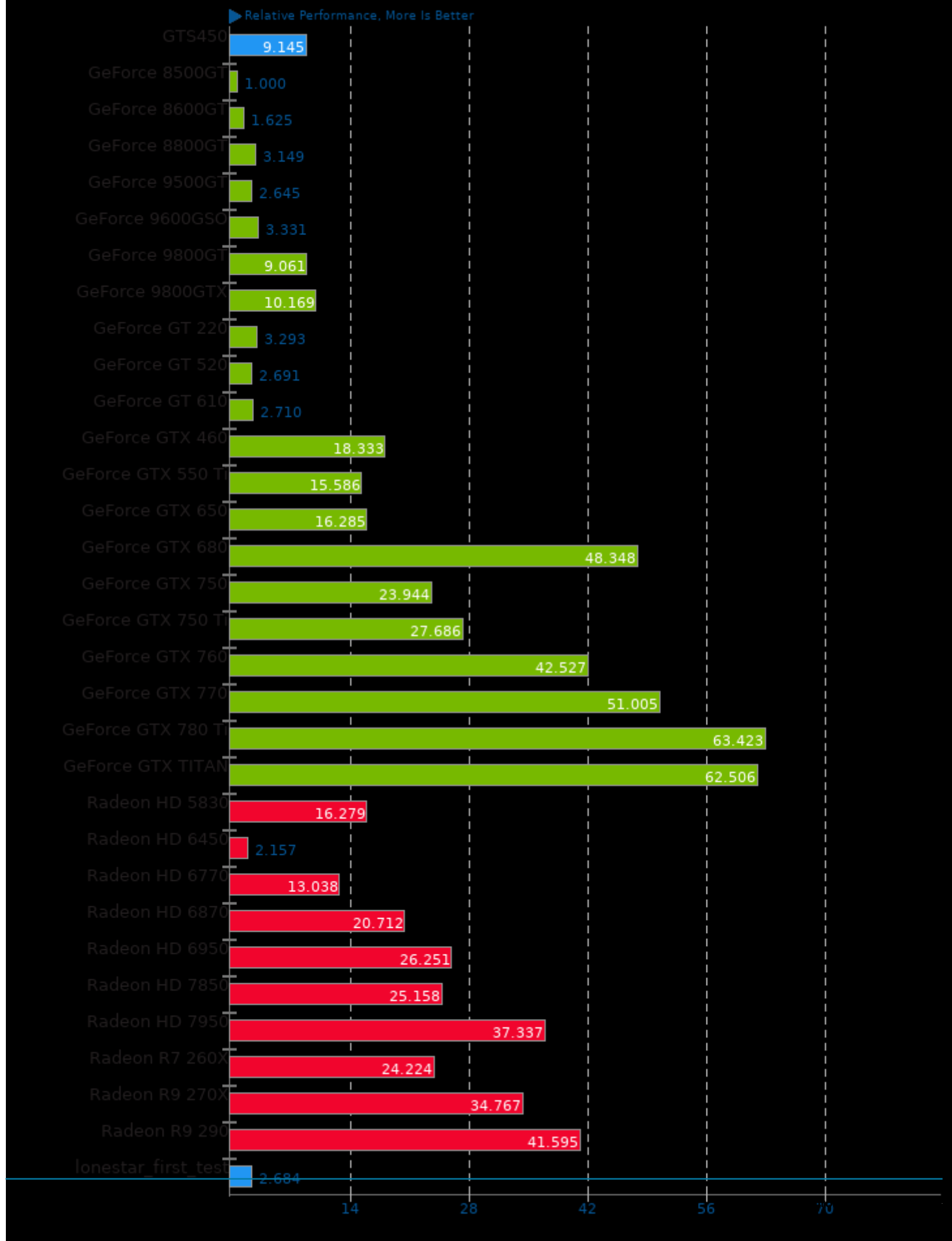
Result Composite - 30-Way Ubuntu 14.04 AMD / NVIDIA Linux Graphics Card Comparison



Geometric mean based upon tests: pts/unigine-valley, pts/unigine-heaven, pts/unigine-sanctuary and pts/unigine-tropics

Geometric Mean Of Unigine Test Suite

Result Composite - 30-Way Ubuntu 14.04 AMD / NVIDIA Linux Graphics Card Comparison



Geometric mean based upon tests: pts/unigine-valley, pts/unigine-heaven, pts/unigine-sanctuary and pts/unigine-tropics

This file was automatically generated via the Phoronix Test Suite benchmarking software on Sunday, 1 September 2024 08:44.