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# old gpu vs new

AMD Ryzen 5 3600 6-Core testing with a MSI MPG X570 GAMING PRO CARBON WIFI (MS-7B93) v1.0 (1.B1 BIOS) and eVGA NVIDIA GeForce GTX 1660 Ti 6GB on Ubuntu 20.04 via the Phoronix Test Suite.

## Test Systems:

### GTX 660Ti

Processor: AMD FX-8320 Eight-Core @ 4.30GHz (8 Cores), Motherboard: Gigabyte GA-970A-D3, Chipset: AMD RD890 bridge, Memory: 16384MB, Disk: 2 x 2000GB Seagate ST2000DM001-1CH1 + 120GB Samsung SSD 840 + 2000GB Seagate ST2000DM001-1ER1, Graphics: ASUS NVIDIA GeForce GTX 660 Ti 2048MB (967/3004MHz), Audio: AMD SBx00 Azalia, Monitor: GRUNDIG WUXGA + ViewSonic VA2431, Network: Realtek RTL8111/8168/8411

OS: Arch rolling, Kernel: 3.18.7-2-ck (x86_64), Desktop: KDE 4.14.5, Display Driver: NVIDIA 346.35, OpenGL: 4.5.0 NVIDIA 346.35, Compiler: GCC 4.9.2 20150204, File-System: ext4, Screen Resolution: 3840x1080

Processor Notes: Scaling Governor: acpi-cpufreq performance

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## GTX 970

Processor: AMD FX-8320 Eight-Core @ 4.30GHz (8 Cores), Motherboard: Gigabyte GA-970A-D3, Chipset: AMD RD890 bridge, Memory: 16384MB, Disk: 2 x 2000GB Seagate ST2000DM001-1CH1 + 120GB Samsung SSD 840 + 2000GB Seagate ST2000DM001-1ER1, Graphics: ASUS NVIDIA GeForce GTX 970 4096MB (405/324MHz), Audio: AMD SBx00 Azalia, Monitor: GRUNDIG WUXGA + ViewSonic VA2431, Network: Realtek RTL8111/8168/8411

OS: Arch rolling, Kernel: 3.18.7-2-ck (x86_64), Display Driver: NVIDIA 346.35, OpenGL: 4.5.0 NVIDIA 346.35, Compiler: GCC 4.9.2 20150204, File-System: ext4, Screen Resolution: 3840x1080

Processor Notes: Scaling Governor: acpi-cpufreq performance

## GTX 970 with 352.09

Processor: AMD FX-8320 Eight-Core @ 4.20GHz (8 Cores), Motherboard: Gigabyte GA-970A-D3, Chipset: AMD RD890 bridge, Memory: 16384MB, Disk: 2 x 2000GB Seagate ST2000DM001-1CH1 + 120GB Samsung SSD 840 + 2000GB Seagate ST2000DM001-1ER1, Graphics: ASUS NVIDIA GeForce GTX 970 4096MB (1113/3505MHz), Audio: AMD SBx00 Azalia, Network: Realtek RTL8111/8168/8411

OS: Arch rolling, Kernel: 4.0.4-2-ARCH (x86_64), Desktop: MATE 1.8.2, Display Driver: NVIDIA 352.09, OpenGL: 4.4.0, Compiler: GCC 5.1.0, File-System: ext4, Screen Resolution: 3840x1080

Processor Notes: Scaling Governor: acpi-cpufreq performance

## SYNTH WAVE

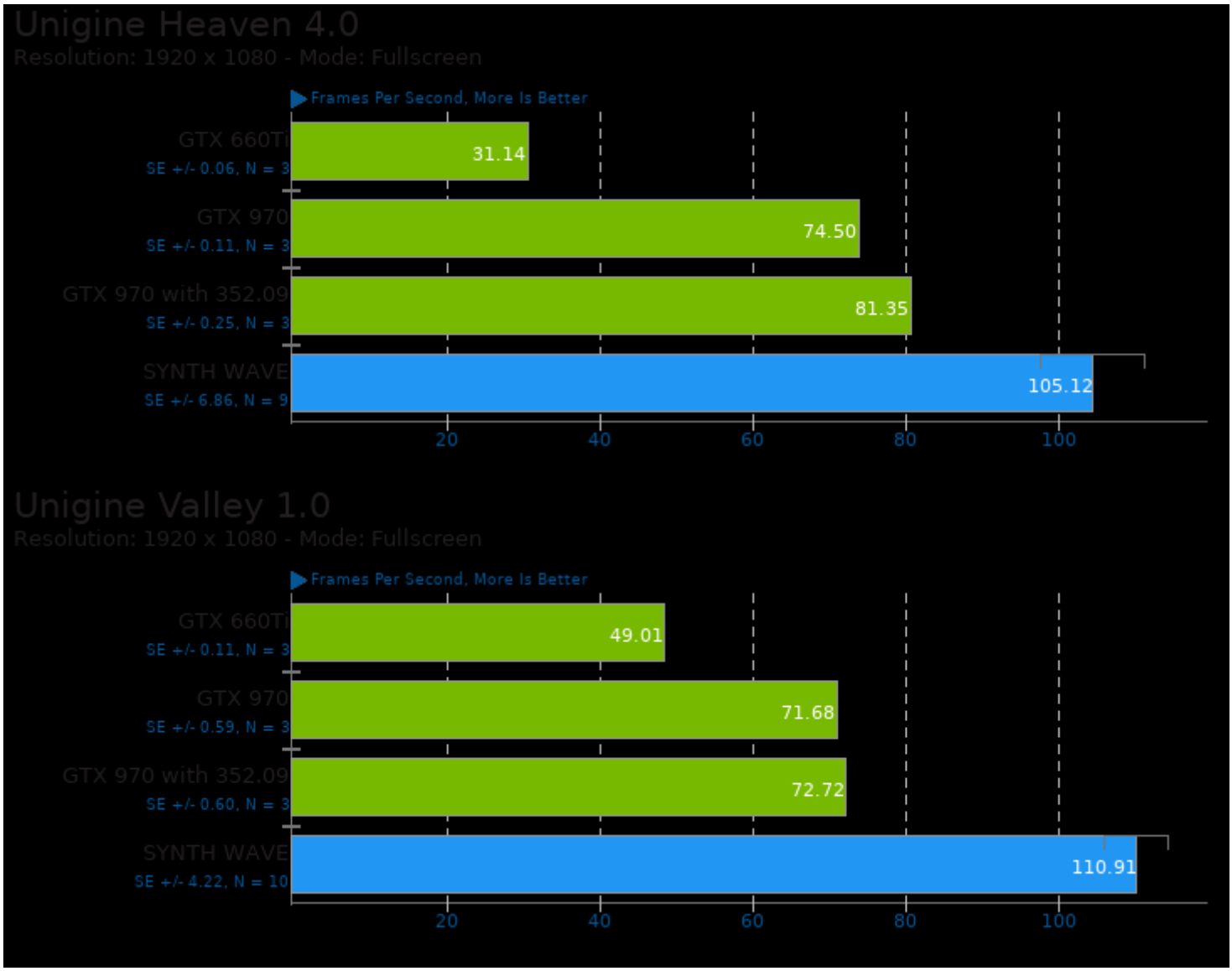
Processor: AMD Ryzen 5 3600 6-Core (6 Cores / 12 Threads), Motherboard: MSI MPG X570 GAMING PRO CARBON WIFI (MS-7B93) v1.0 (1.B1 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 500GB HGST HTS545050A7 + 16GB Cruzer Glide, Graphics: eVGA NVIDIA GeForce GTX 1660 Ti 6GB (1500/6000MHz), Audio: NVIDIA TU116 HD Audio, Monitor: WC34DX9019, Network: Intel I211 + Intel Wi-Fi 6 AX200

OS: Ubuntu 20.04, Kernel: 5.4.0-58-generic (x86_64), Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.8, Display Driver: NVIDIA 455.38, OpenGL: 4.6.0, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 3440x1440

Processor Notes: CPU Microcode: 0x8701021
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

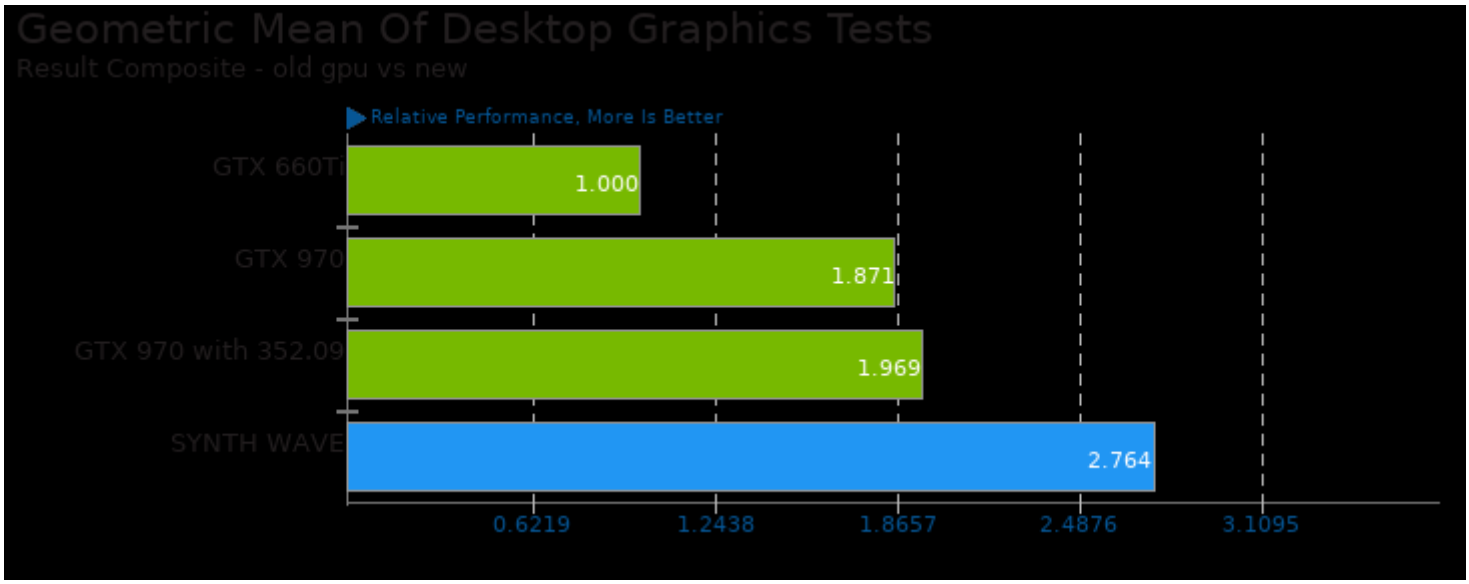
| | GTX 660Ti | GTX 970 | GTX 970 with 352.09 | SYNTH WAVE |
|---|---|---|---|---|
| **Unigine Heaven - 1920 x 1080 - Fullscreen (FPS)** | **31.14** | 74.50 | 81.35 | **105.1237** |
| **Normalized** | 29.62% | 70.87% | 77.39% | 100% |
| **Standard Deviation** | 0.3% | 0.3% | 0.5% | 19.6% |
| **Unigine Valley - 1920 x 1080 - Fullscreen (FPS)** | **49.01** | 71.68 | 72.72 | **110.9073** |
| **Normalized** | 44.19% | 64.63% | 65.57% | 100% |
| **Standard Deviation** | 0.4% | 1.4% | 1.4% | 12% |

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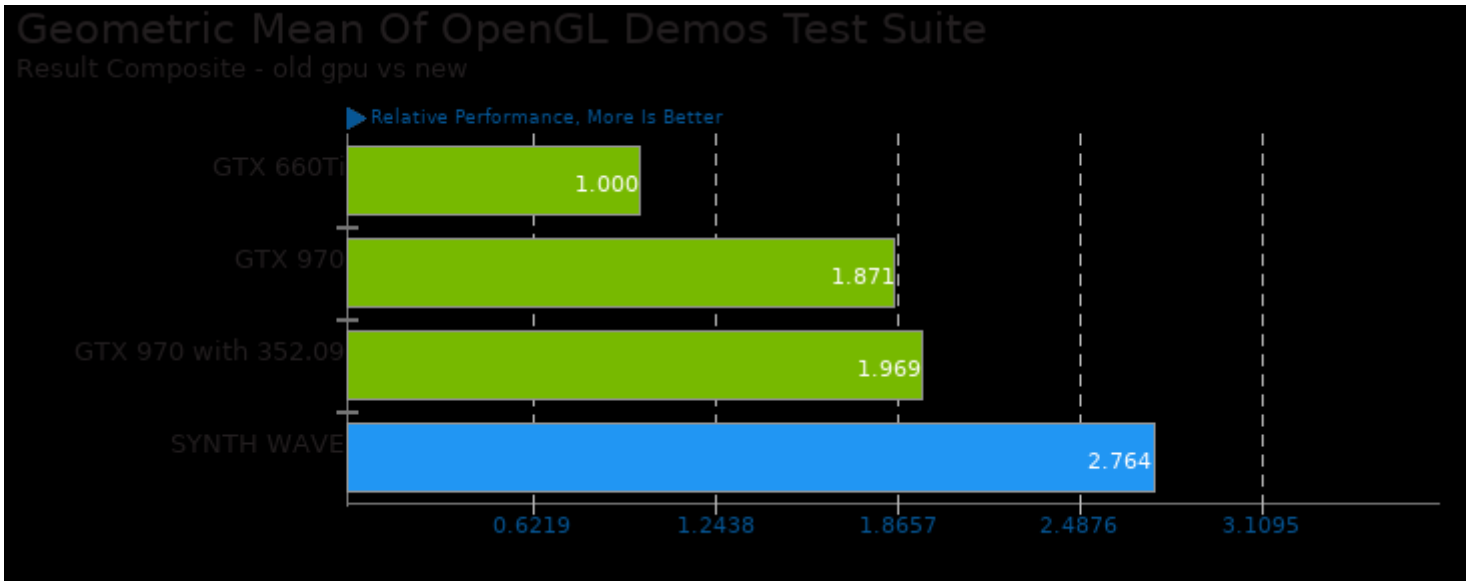


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These geometric means are based upon test groupings / test suites for this result file.

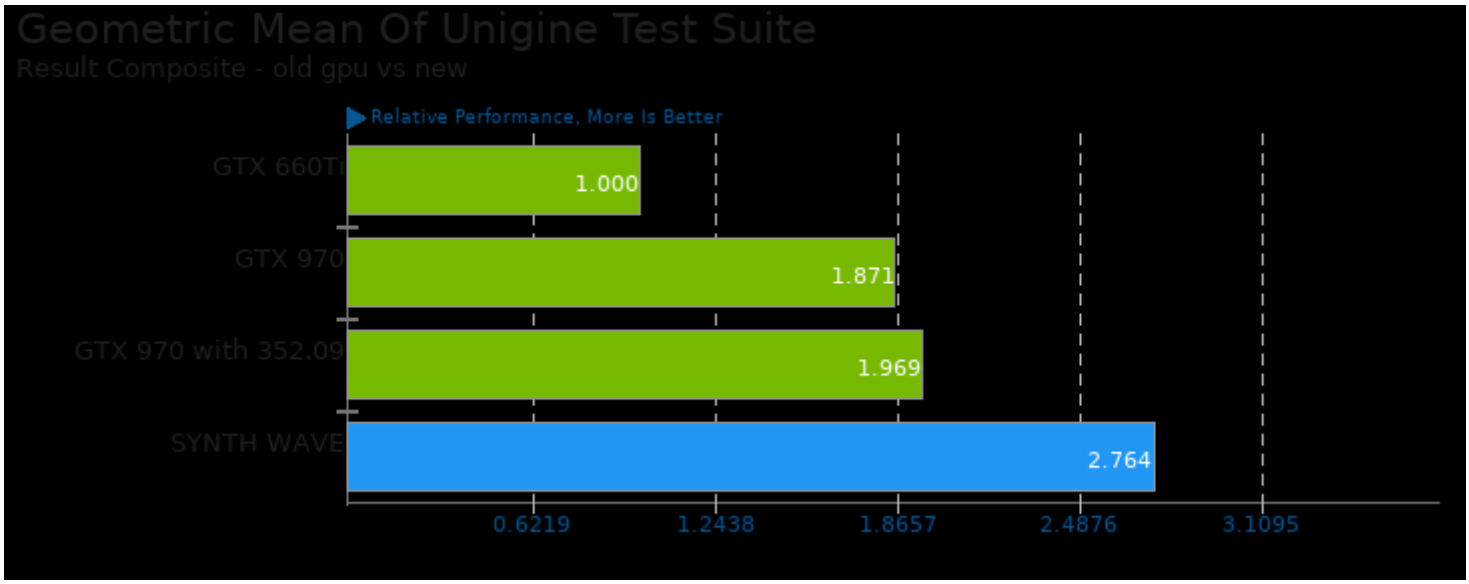



Geometric mean based upon tests: pts/unigine-valley and pts/unigine-heaven




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

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

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 02:18.*