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Ultra HD 4k Linux Scaling

Looking at GPU performance scaling at resolutions up to 3840x2160 Ultra HD (4k) resolution on Ubuntu Linux with NVIDIA GeForce graphics cards. Benchmarks by Michael Larabel of Phoronix.com for a future article.

Test Systems:

NVIDIA GeForce GTX 680

Processor: Intel Core i7-3770K @ 3.50GHz (8 Cores), Motherboard: ECS Z77H2-A2X v1.0, Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 8192MB, Disk: 160GB INTEL SSDSA2M160, Graphics: NVIDIA GeForce GTX 680 2048MB (705/3004MHz), Audio: Realtek ALC892, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 13.10, Kernel: 3.11.0-13-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.3, Display Driver: NVIDIA 331.20, OpenGL: 4.3.0, File-System: ext4, Screen Resolution: 3840x2160

NVIDIA GeForce GTX 780 Ti

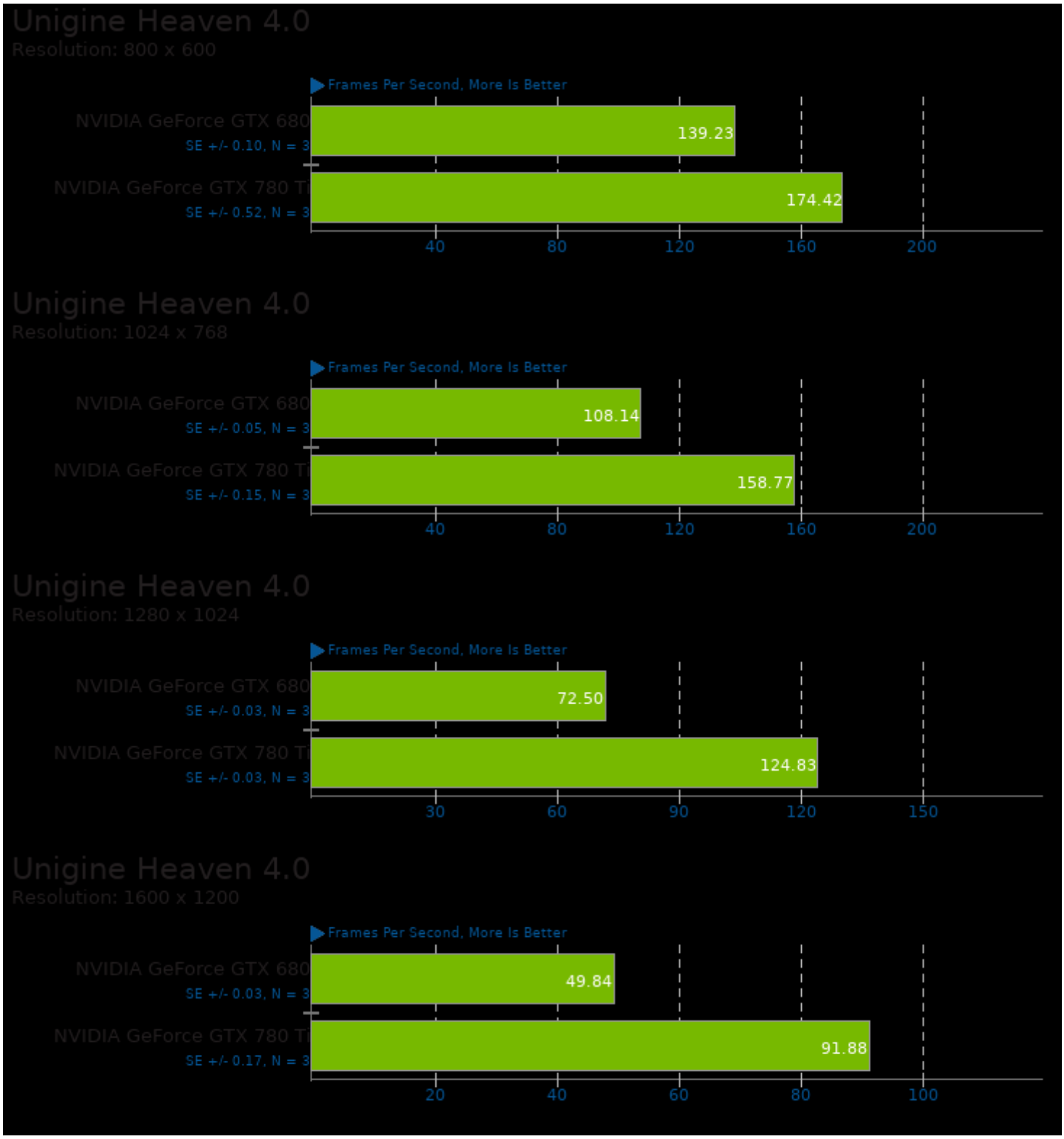
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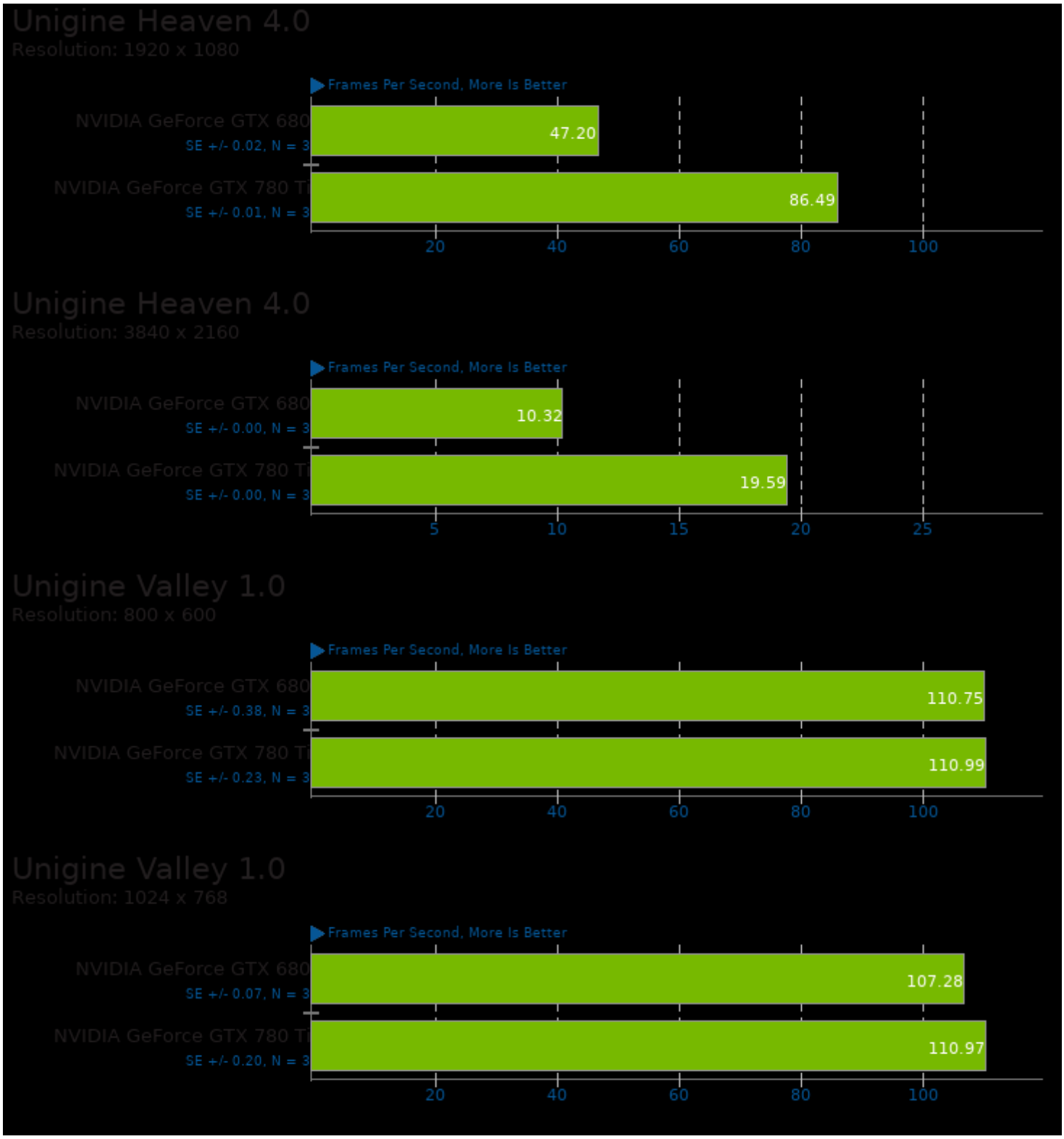
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	NVIDIA GeForce GTX 680	NVIDIA GeForce GTX 780 Ti
Unigine Heaven - 800 x 600 (FPS)	**139.23**	**174.42**
Normalized	79.82%	100%
Standard Deviation	0.1%	0.5%
Unigine Heaven - 1024 x 768 (FPS)	**108.14**	**158.77**
Normalized	68.11%	100%
Standard Deviation	0.1%	0.2%
Unigine Heaven - 1280 x 1024 (FPS)	**72.50**	**124.83**
Normalized	58.08%	100%
Standard Deviation	0.1%	0%
Unigine Heaven - 1600 x 1200 (FPS)	**49.84**	**91.88**
Normalized	54.24%	100%
Standard Deviation	0.1%	0.3%
Unigine Heaven - 1920 x 1080 (FPS)	**47.20**	**86.49**
Normalized	54.57%	100%
Standard Deviation	0.1%	0%
Unigine Heaven - 3840 x 2160 (FPS)	**10.32**	**19.59**
Normalized	52.68%	100%
Standard Deviation	0.1%	0%
Unigine Valley - 800 x 600 (FPS)	**110.75**	**110.99**
Normalized	99.78%	100%
Standard Deviation	0.6%	0.4%
Unigine Valley - 1024 x 768 (FPS)	**107.28**	**110.97**
Normalized	96.67%	100%
Standard Deviation	0.1%	0.3%
Unigine Valley - 1280 x 1024 (FPS)	**88.28**	**108.68**
Normalized	81.23%	100%
Standard Deviation	0.1%	0.4%
Unigine Valley - 1600 x 1200 (FPS)	**67.16**	**92.04**
Normalized	72.97%	100%
Standard Deviation	0.1%	0.1%
Unigine Valley - 1920 x 1080 (FPS)	**63.01**	**84.29**
Normalized	74.75%	100%
Standard Deviation	0.1%	0.5%
Unigine Valley - 3840 x 2160 (FPS)	**16.16**	**25.79**
Normalized	62.66%	100%
Standard Deviation	0.1%	0.1%

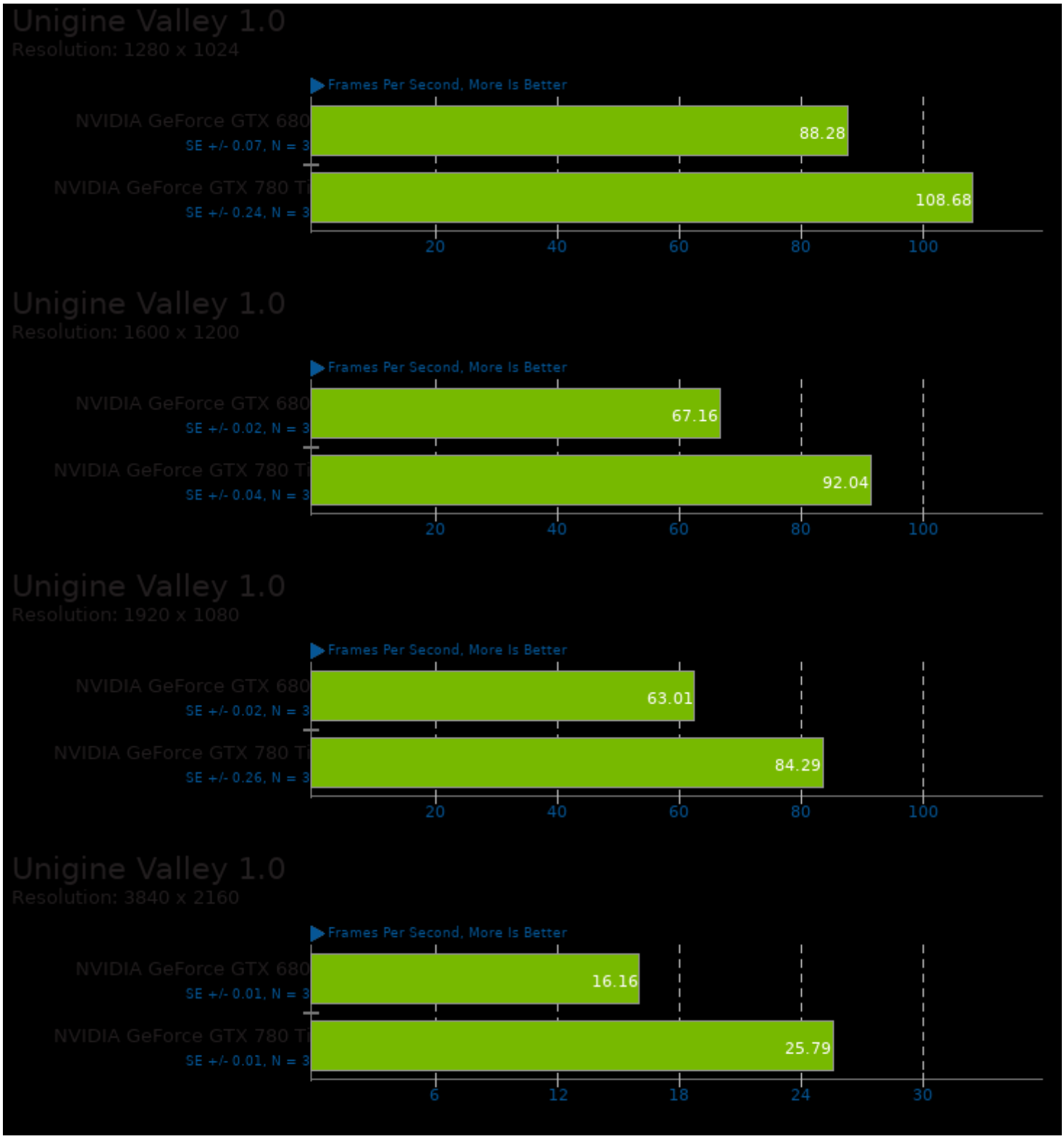
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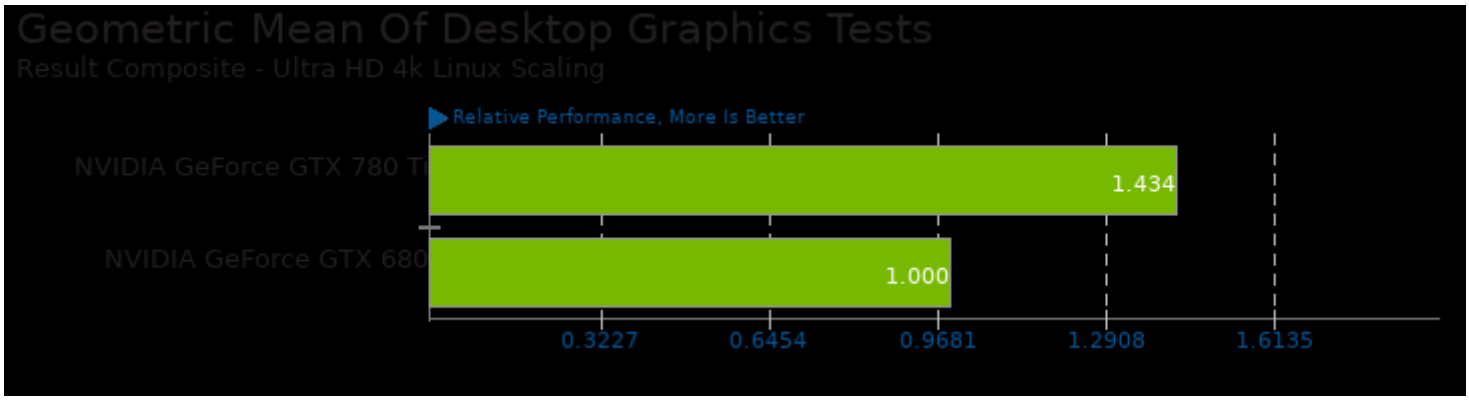
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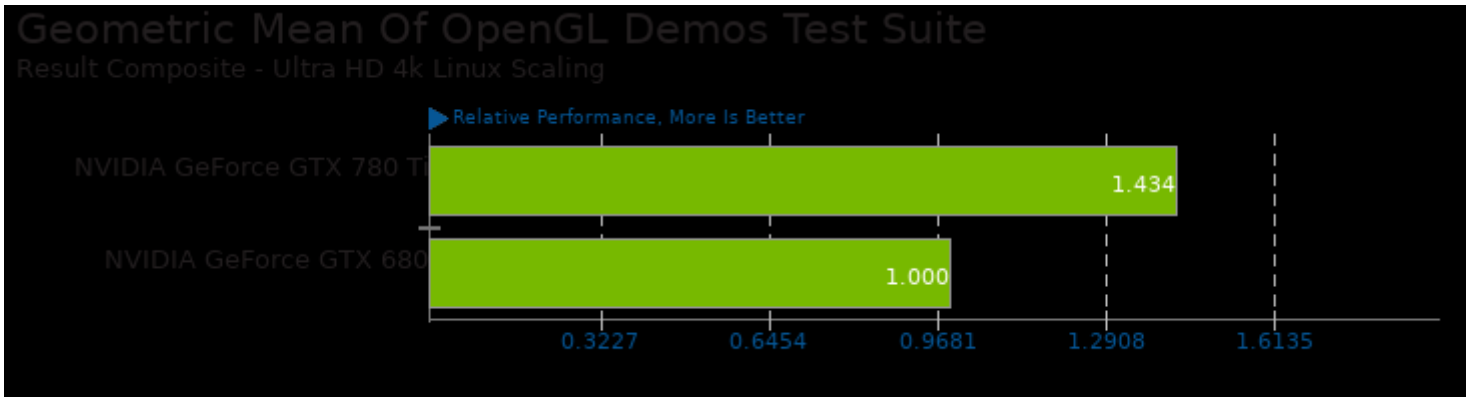
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These geometric means are based upon test groupings / test suites for this result file.



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



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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 11:14.