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NVIDIA GeForce 700 Linux Preview

Benchmarks by Michael Larabel for a future article NVIDIA GeForce 700 series. This is just some early preview benchmarks.

Test Systems:

NVIDIA GeForce GTX 770

Processor: Intel Core i7-4770K @ 4.40GHz (8 Cores), Motherboard: ECS Z87H3-A2X EXTREME v1.0, Chipset: Intel 4th Gen Core DRAM, Memory: 16384MB, Disk: 240GB OCZ VERTEX3, Graphics: NVIDIA GeForce GTX 770 2048MB (540/3505MHz), Audio: NVIDIA GPU 40 HDMI/DP, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 13.10, Kernel: 3.12.0-031200-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.3, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 2560x1600

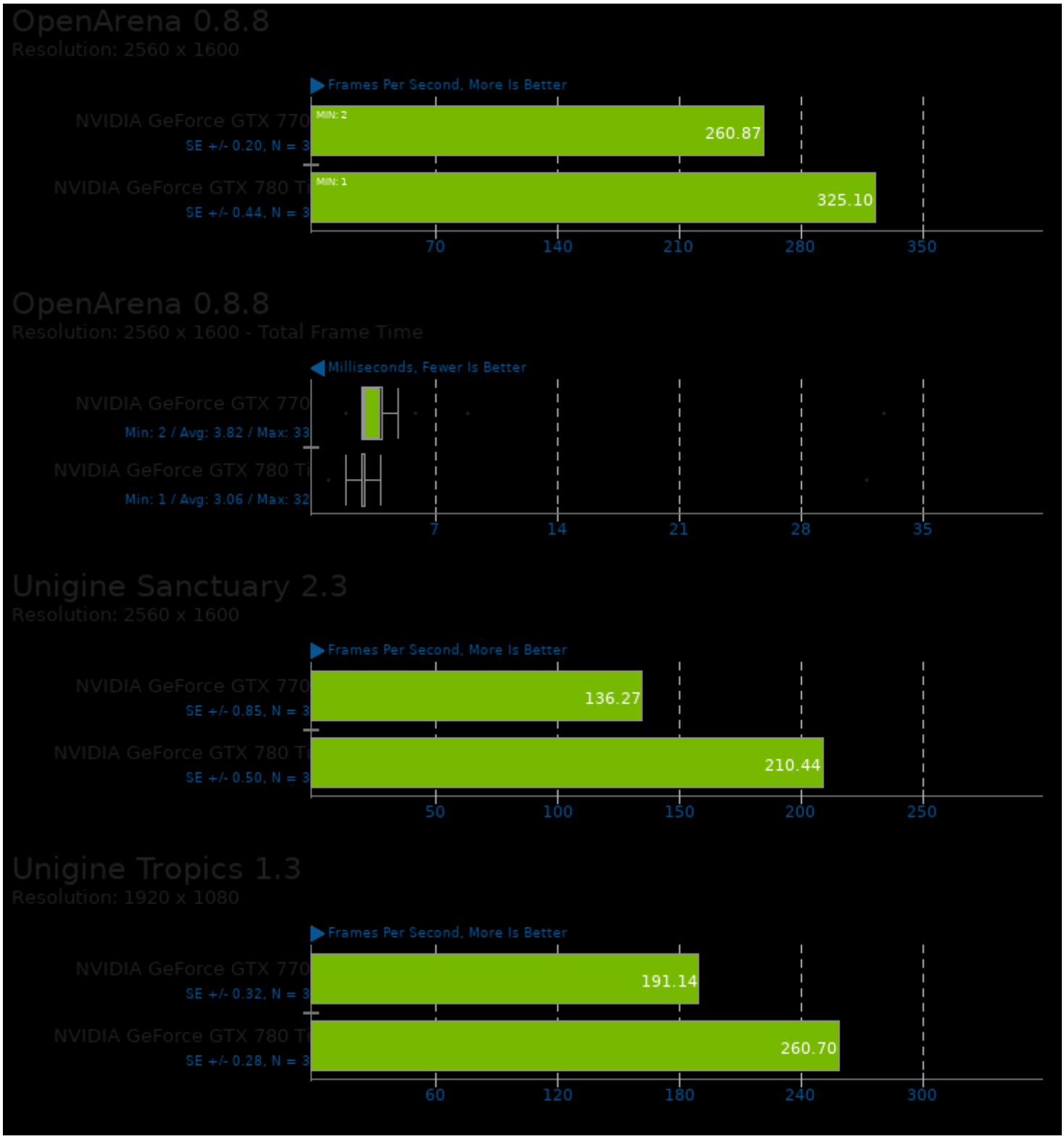
NVIDIA GeForce GTX 780 Ti

NVIDIA GeForce 700 Linux Preview

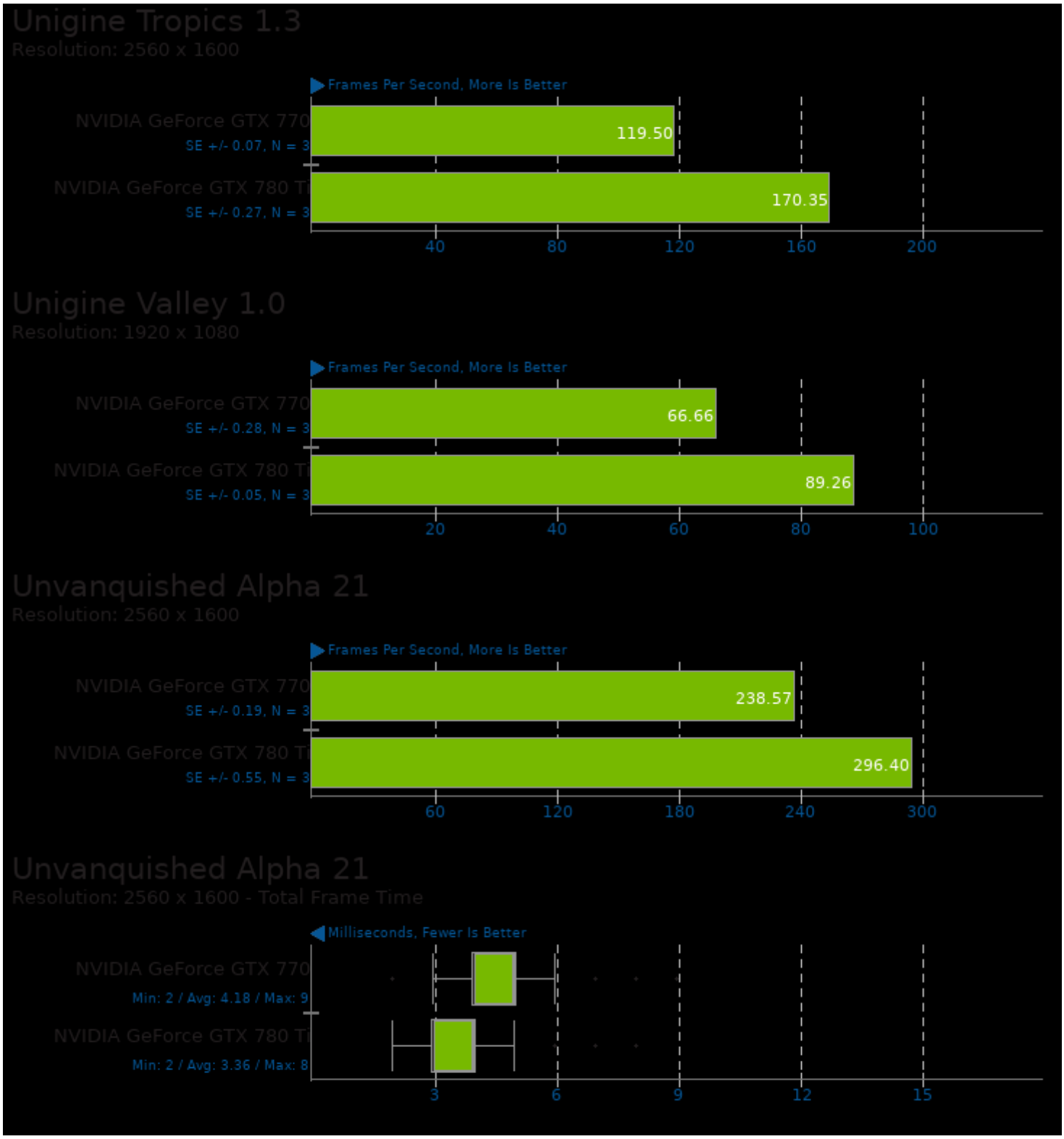
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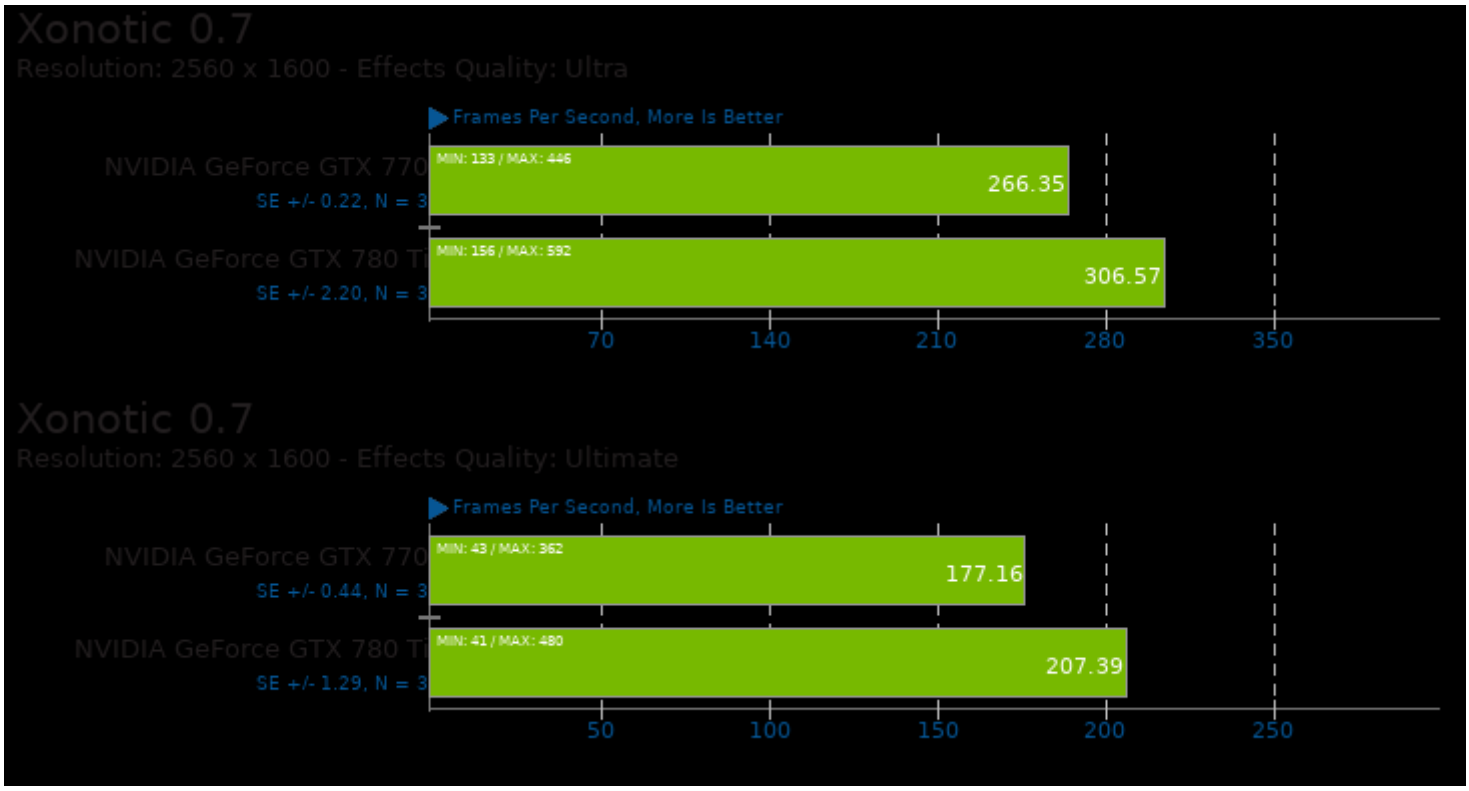
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	NVIDIA GeForce GTX 770	NVIDIA GeForce GTX 780 Ti
OpenArena - 2560 x 1600 (FPS)	**260.87**	**325.10**
Normalized	80.24%	100%
Standard Deviation	0.1%	0.2%
Unigine Sanctuary - 2560 x 1600 (FPS)	**136.27**	**210.44**
Normalized	64.75%	100%
Standard Deviation	1.1%	0.4%
Unigine Tropics - 1920 x 1080 (FPS)	**191.14**	**260.70**
Normalized	73.32%	100%
Standard Deviation	0.3%	0.2%
Unigine Tropics - 2560 x 1600 (FPS)	**119.50**	**170.35**
Normalized	70.15%	100%
Standard Deviation	0.1%	0.3%
Unigine Valley - 1920 x 1080 (FPS)	**66.66**	**89.26**
Normalized	74.68%	100%
Standard Deviation	0.7%	0.1%
Unvanquished - 2560 x 1600 (FPS)	**238.57**	**296.40**
Normalized	80.49%	100%
Standard Deviation	0.1%	0.3%
Xonotic - 2560 x 1600 - Ultra (FPS)	**266.35**	**306.57**
Normalized	86.88%	100%
Standard Deviation	0.1%	1.2%
Xonotic - 2560 x 1600 - Ultimate (FPS)	**177.16**	**207.39**
Normalized	85.42%	100%
Standard Deviation	0.4%	1.1%

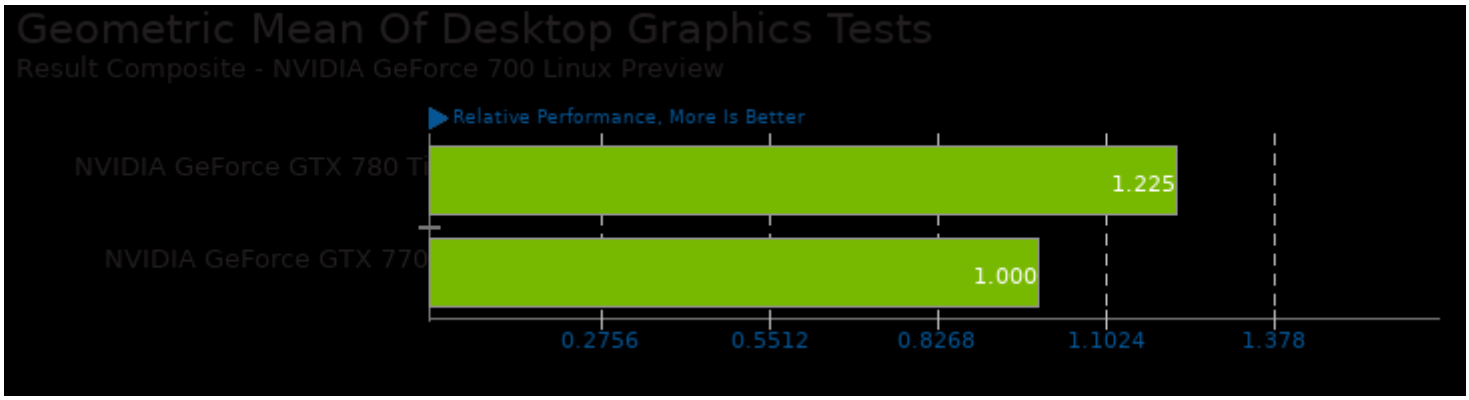

OpenArena 0.8.8
Resolution: 2560 x 1600
Frames Per Second, More Is Better
NVIDIA GeForce GTX 770
SE +/- 0.20, N = 3
MIN: 2
260.87
NVIDIA GeForce GTX 780 Ti
SE +/- 0.44, N = 3
MIN: 1
325.10
70
140
210
280
350
OpenArena 0.8.8
Resolution: 2560 x 1600 - Total Frame Time
Milliseconds, Fewer Is Better
NVIDIA GeForce GTX 770
Min: 2 / Avg: 3.82 / Max: 33
NVIDIA GeForce GTX 780 Ti
Min: 1 / Avg: 3.06 / Max: 32
7
14
21
28
35
Unigine Sanctuary 2.3
Resolution: 2560 x 1600
Frames Per Second, More Is Better
NVIDIA GeForce GTX 770
SE +/- 0.85, N = 3
136.27
NVIDIA GeForce GTX 780 Ti
SE +/- 0.50, N = 3
210.44
50
100
150
200
250
Unigine Tropics 1.3
Resolution: 1920 x 1080
Frames Per Second, More Is Better
NVIDIA GeForce GTX 770
SE +/- 0.32, N = 3
191.14
NVIDIA GeForce GTX 780 Ti
SE +/- 0.28, N = 3
260.70
60
120
180
240
300

NVIDIA GeForce 700 Linux Preview

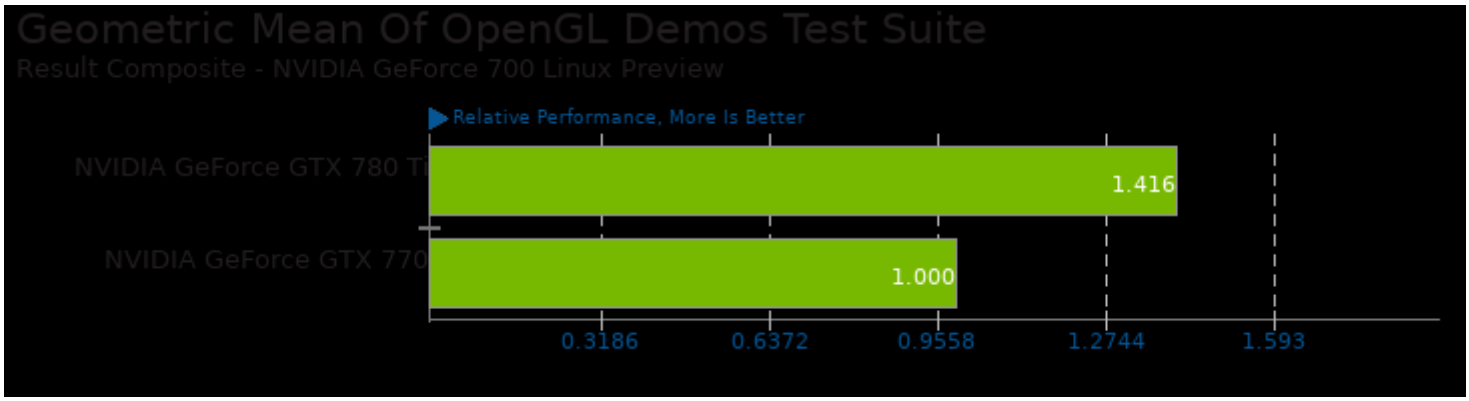



Xonotic 0.7
Resolution: 2560 x 1600 - Effects Quality: Ultra
Frames Per Second, More Is Better
NVIDIA GeForce GTX 770
SE +/- 0.22, N = 3
MIN: 133 / MAX: 446
266.35
NVIDIA GeForce GTX 780 Ti
SE +/- 2.20, N = 3
MIN: 156 / MAX: 592
306.57
70
140
210
280
350
Xonotic 0.7
Resolution: 2560 x 1600 - Effects Quality: Ultimate
Frames Per Second, More Is Better
NVIDIA GeForce GTX 770
SE +/- 0.44, N = 3
MIN: 43 / MAX: 362
177.16
NVIDIA GeForce GTX 780 Ti
SE +/- 1.29, N = 3
MIN: 41 / MAX: 480
207.39
50
100
150
200
250

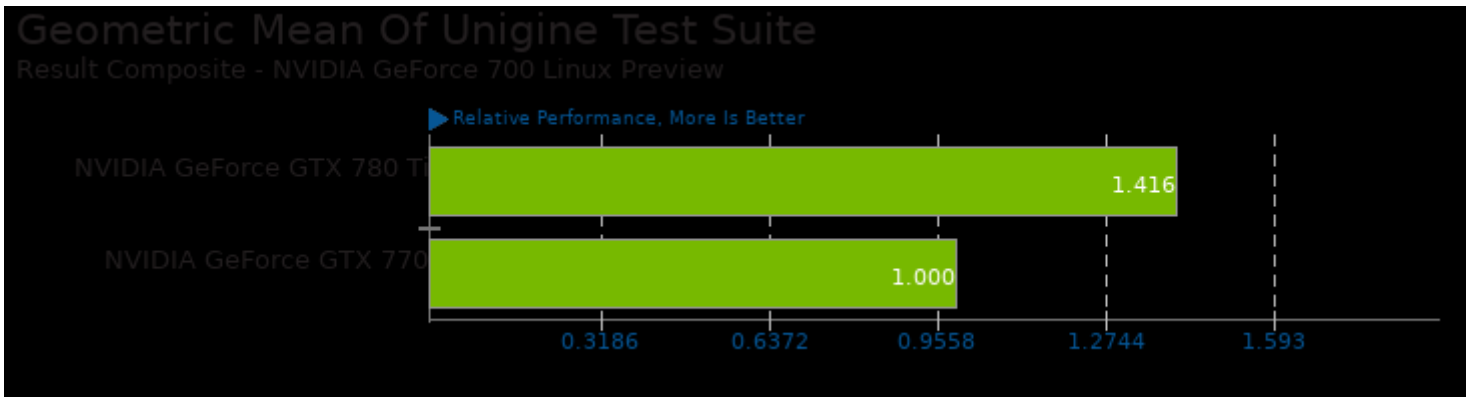
These geometric means are based upon test groupings / test suites for this result file.



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



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



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 21:23.