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Ubuntu Radeon 14.04 To 17.10 On HD 7950

Tests for a future article.

Automated Executive Summary

Ubuntu 17.10 had the most wins, coming in first place for 81% of the tests.

Based on the geometric mean of all complete results, the fastest (Ubuntu 17.04) was 1.868x the speed of the slowest (Ubuntu 14.04). Ubuntu 17.10 was 0.938x the speed of Ubuntu 17.04, Ubuntu 16.04 was 0.923x the speed of Ubuntu 17.10, Ubuntu 15.10 was 0.967x the speed of Ubuntu 16.04, Ubuntu 15.04 was 0.983x the speed of Ubuntu 15.10, Ubuntu 14.10 was 0.8x the speed of Ubuntu 15.04, Ubuntu 16.10 was 0.844x the speed of Ubuntu 14.10, Ubuntu 14.04 was 0.964x the speed of Ubuntu 16.10.

Test Systems:

Ubuntu 14.04

Processor: Intel Core i7-7700K @ 4.20GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0,

Chipset: Intel Device 591f, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 128GB THNSN5128GPU7 TOSHIBA, Graphics: XFX AMD Radeon HD 7950/8950 OEM / R9 280 3072MB, Audio: Realtek ALC892, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-133-generic (x86_64), Desktop: Unity 7.2.0, Display Server: X Server 1.15.1, Display Driver: radeon 7.3.0, OpenGL: 3.1 Mesa 10.1.3 Gallium 0.4, Compiler: GCC 4.8.4, File-System: ext4, Screen Resolution: 2560x1440

Processor Notes: Scaling Governor: acpi-cpufreq ondemand
Graphics Notes: GLAMOR

Ubuntu 14.10

Processor: Intel Core i7-7700K @ 4.20GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3, Graphics: XFX AMD Radeon HD 7950/8950 OEM / R9 280 3072MB, Audio: Intel Device a2f0, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.10, Kernel: 3.16.0-23-generic (x86_64), Desktop: Unity 7.3.1, Display Server: X Server 1.16.0, Display Driver: radeon 7.4.0, OpenGL: 3.3 Mesa 10.3.2 Gallium 0.4, Compiler: GCC 4.9.1, File-System: ext4, Screen Resolution: 2560x1440

Processor Notes: Scaling Governor: acpi-cpufreq ondemand
Graphics Notes: GLAMOR

Ubuntu 15.04

Processor: Intel Core i7-7700K @ 4.20GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3, Graphics: XFX AMD Radeon HD 7950/8950 OEM / R9 280 3072MB, Audio: Intel Device a2f0, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 15.04, Kernel: 3.19.0-84-generic (x86_64), Desktop: Unity 7.3.2, Display Server: X Server 1.17.1, Display Driver: radeon 7.5.0, OpenGL: 3.3 Mesa 10.5.9 Gallium 0.4, Compiler: GCC 4.9.2, File-System: ext4, Screen Resolution: 2560x1440

Processor Notes: Scaling Governor: acpi-cpufreq ondemand
Graphics Notes: GLAMOR

Ubuntu 15.10

Processor: Intel Core i7-7700K @ 4.20GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3, Graphics: XFX AMD Radeon HD 7950/8950 OEM / R9 280 3072MB, Audio: Realtek ALC892, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 15.10, Kernel: 4.2.0-16-generic (x86_64), Desktop: Unity, Display Server: X Server 1.17.2, Display Driver: radeon 7.5.99, OpenGL: 3.3 Mesa 11.0.2 Gallium 0.4 (LLVM 3.6.2), Compiler: GCC 5.2.1 20151010, File-System: ext4, Screen Resolution: 2560x1440

Processor Notes: Scaling Governor: acpi-cpufreq ondemand
Graphics Notes: GLAMOR

Ubuntu 16.04

Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 128GB THNSN5128GPU7 TOSHIBA, Graphics: XFX AMD Radeon HD 7950/8950 OEM / R9 280 3072MB, Audio: Realtek ALC892, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.4.0-97-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.3, Display Driver: modesetting 1.18.3, OpenGL: 4.2 Mesa 17.0.7 Gallium 0.4 (LLVM 4.0.0), Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 2560x1440

Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Ubuntu 16.10

Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Intel Kaby Lake + Z270, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 128GB THNSN5128GPU7 TOSHIBA, Graphics: XFX AMD Radeon HD 7950/8950 OEM / R9 280 3072MB, Audio: Realtek ALC892, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.10, Kernel: 4.8.0-59-generic (x86_64), Desktop: Unity 7.5.0, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 4.1 Mesa 12.0.6 Gallium 0.4 (LLVM 3.8.1), Compiler: GCC 6.2.0 20161005, File-System: ext4, Screen Resolution: 2560x1440

Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Ubuntu 17.04

Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f + Z270, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 128GB THNSN5128GPU7 TOSHIBA, Graphics: XFX AMD Radeon HD 7950/8950 OEM / R9 280 3072MB, Audio: Realtek ALC892, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 17.04, Kernel: 4.10.0-37-generic (x86_64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.3, Display Driver: modesetting 1.19.3, OpenGL: 4.5 Mesa 17.0.7 Gallium 0.4 (LLVM 4.0.0), Compiler: GCC 6.3.0 20170406, File-System: ext4, Screen Resolution: 2560x1440

Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

Ubuntu 17.10

Processor: Intel Core i7-7700K @ 4.50GHz (4 Cores / 8 Threads), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Intel Kaby Lake + Z270, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 128GB THNSN5128GPU7 TOSHIBA, Graphics: XFX AMD Radeon HD 7950/8950 OEM / R9 280 3072MB, Audio: Realtek ALC892, Monitor: DELL P2415Q, 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: modesetting 1.19.5, OpenGL: 4.5 Mesa 17.2.2 (LLVM 5.0.0), Compiler: GCC 7.2.0, File-System: ext4, Screen Resolution: 2560x1440

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

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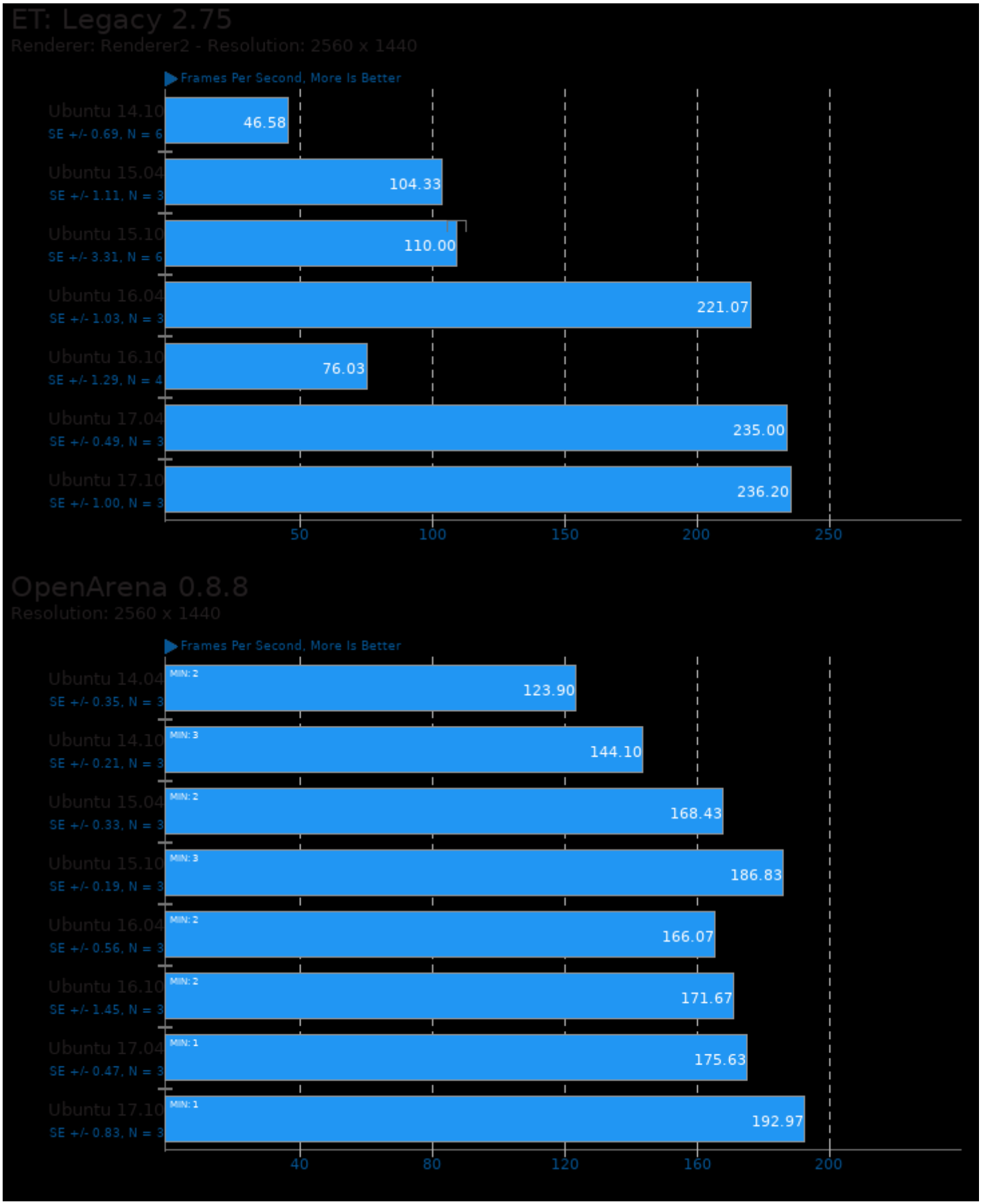
Graphics Notes: GLAMOR

	Ubuntu 14.04	Ubuntu 14.10	Ubuntu 15.04	Ubuntu 15.10	Ubuntu 16.04	Ubuntu 16.10	Ubuntu 17.04	Ubuntu 17.10
ET: Legacy - Renderer2 - 2560 x 1440 (FPS)		46.58	104.33	110.00	221.07	76.03	235.00	236.20
Normalized		19.72%	44.17%	46.57%	93.59%	32.19%	99.49%	100%
Standard Deviation		3.6%	1.8%	7.4%	0.8%	3.4%	0.4%	0.7%
OpenArena - 2560 x 1440 (FPS)	123.90	144.10	168.43	186.83	166.07	171.67	175.63	192.97
Normalized	64.21%	74.67%	87.28%	96.82%	86.06%	88.96%	91.01%	100%
Standard Deviation	0.5%	0.3%	0.3%	0.2%	0.6%	1.5%	0.5%	0.7%
Xonotic - 2560 x 1440 - Low (FPS)	301.45	305.57	369.94	341.02	397.00	317.61	360.26	452.73
Normalized	66.58%	67.49%	81.71%	75.33%	87.69%	70.15%	79.58%	100%
Standard Deviation	0.3%	0.4%	3.1%	1.5%	0.9%	0.7%	0.4%	0.5%
Xonotic - 2560 x 1440 - Ultra (FPS)		137.93	175.69	180.71	208.74	116.30	277.72	310.20
Normalized		44.46%	56.64%	58.26%	67.29%	37.49%	89.53%	100%
Standard Deviation		0.3%	1.6%	0.8%	0.7%	2.4%	12.4%	0.6%
GLmark2 - 2560 x 1440 (Score)		1342	2103	2152	2184	2170	2251	2283
Normalized		58.78%	92.12%	94.26%	95.66%	95.05%	98.6%	100%
GpuTest - Furmark - 2560 x 1440 - Fullscreen (Points)	1949	1833	1871	1881	2132	966	2135	2125
Normalized	91.29%	85.85%	87.63%	88.1%	99.86%	45.25%	100%	99.53%
Standard Deviation	4%	3.3%	3.2%	3.1%	3.2%	2.8%	3%	2.6%
GpuTest - Triangle - 2560 x 1440 - Fullscreen (Points)	46597	95964	161891	168839	164910	74684	305969	172014
Normalized	15.23%	31.36%	52.91%	55.18%	53.9%	24.41%	100%	56.22%
Standard Deviation	0%	0.1%	3.3%	0%	6.3%	3.4%	3.3%	0.2%
Counter-Strike: Global Offensive - 2560 x 1440 (FPS)			53.58	62.51	116.48	94.08	118.83	127.48
Normalized			42.03%	49.04%	91.37%	73.8%	93.21%	100%
Standard Deviation			0.4%	0.6%	0.6%	0.9%	0.5%	
Dota 2 - 2560 x 1440 - OpenGL (FPS)		29.67	37.47	39.63	54.87	50.30	57.23	57.40
Normalized		51.69%	65.28%	69.04%	95.59%	87.63%	99.7%	100%
Standard Deviation		0.2%	0.2%	0.1%	0.6%	0.2%	0.1%	3.5%
Team Fortress 2 - 2560 x 1440 (FPS)						160.13	171.24	173.3
Normalized						92.4%	98.81%	100%
Standard Deviation						1.1%	1.4%	

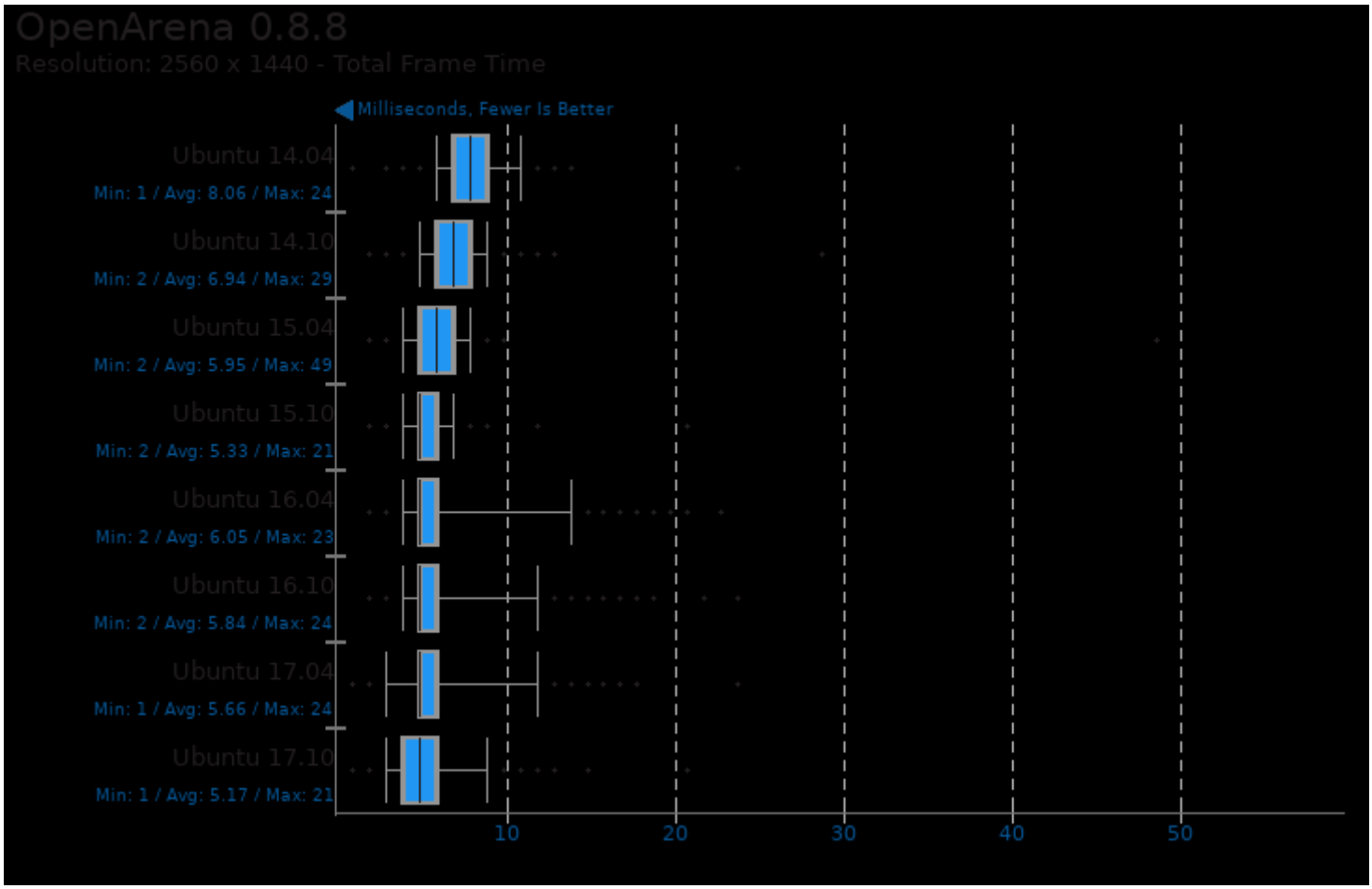
Ubuntu Radeon 14.04 To 17.10 On HD 7950

Portal - 2560 x 1440 (FPS)		**256.83**	310.92	**311.56**
Normalized		82.43%	99.79%	100%
Standard Deviation		0.9%	0.6%	0.6%
BioShock Infinite - 2560 x 1440 - Medium (FPS)	100.16	**57.72**	101.98	**106.21**
Normalized	94.3%	54.35%	96.02%	100%
Standard Deviation	0.1%	0.3%	0.3%	0.3%
Metro: Last Light Redux - 2560 x 1440	70.54	**56.20**	72.15	**72.26**
Normalized	97.62%	77.77%	99.85%	100%
Standard Deviation	0.7%	0.4%	0.1%	0.2%

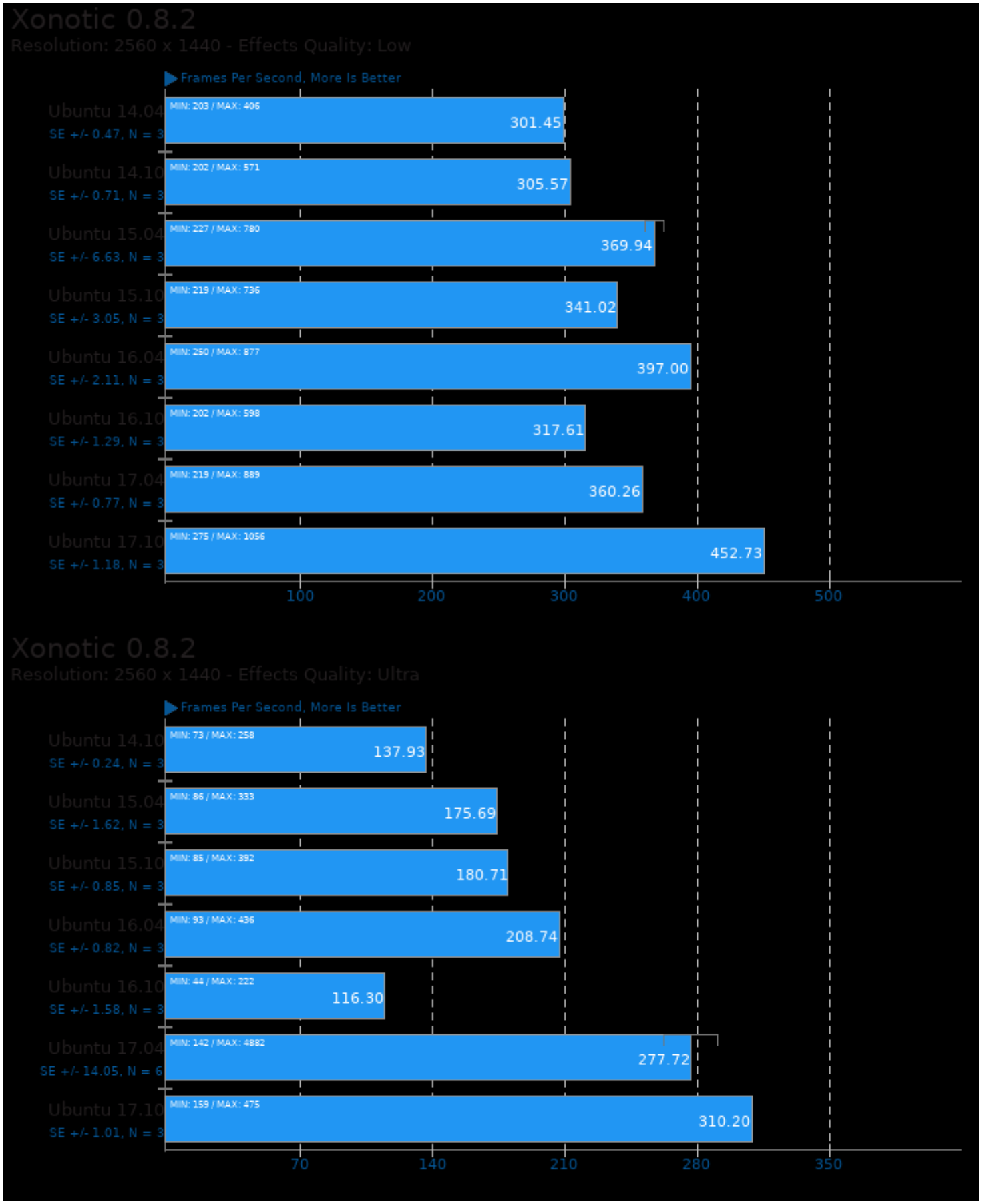
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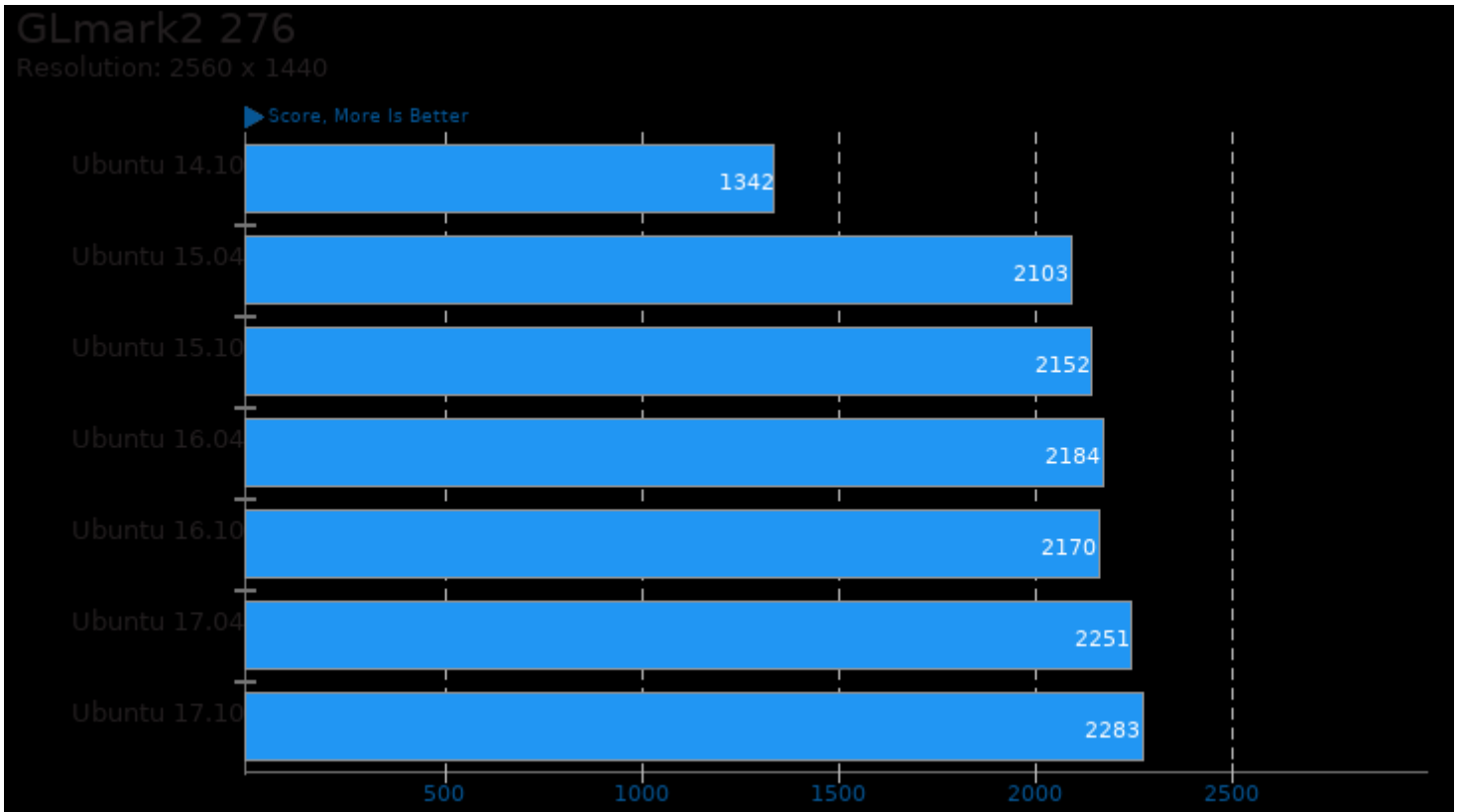
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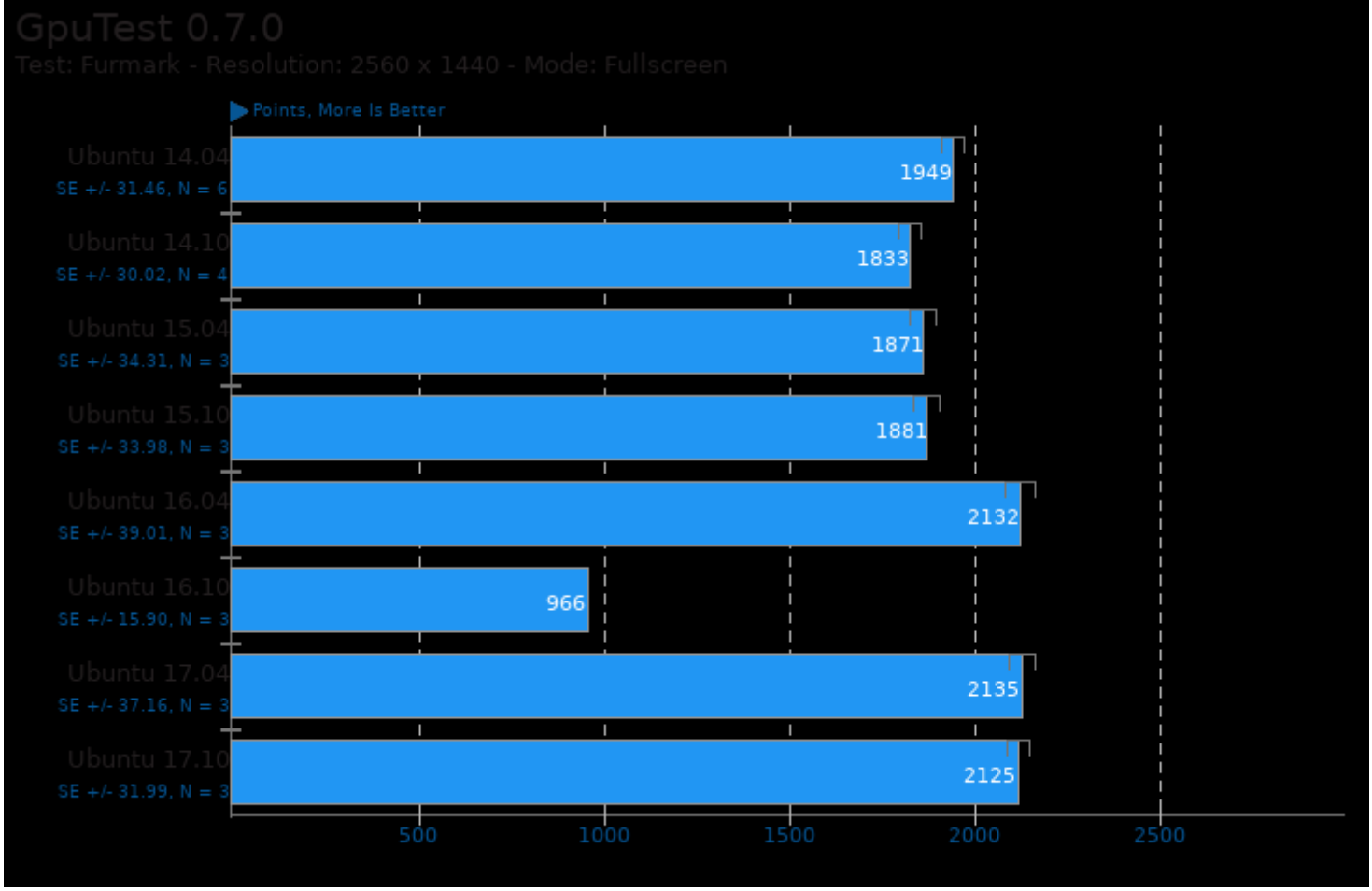


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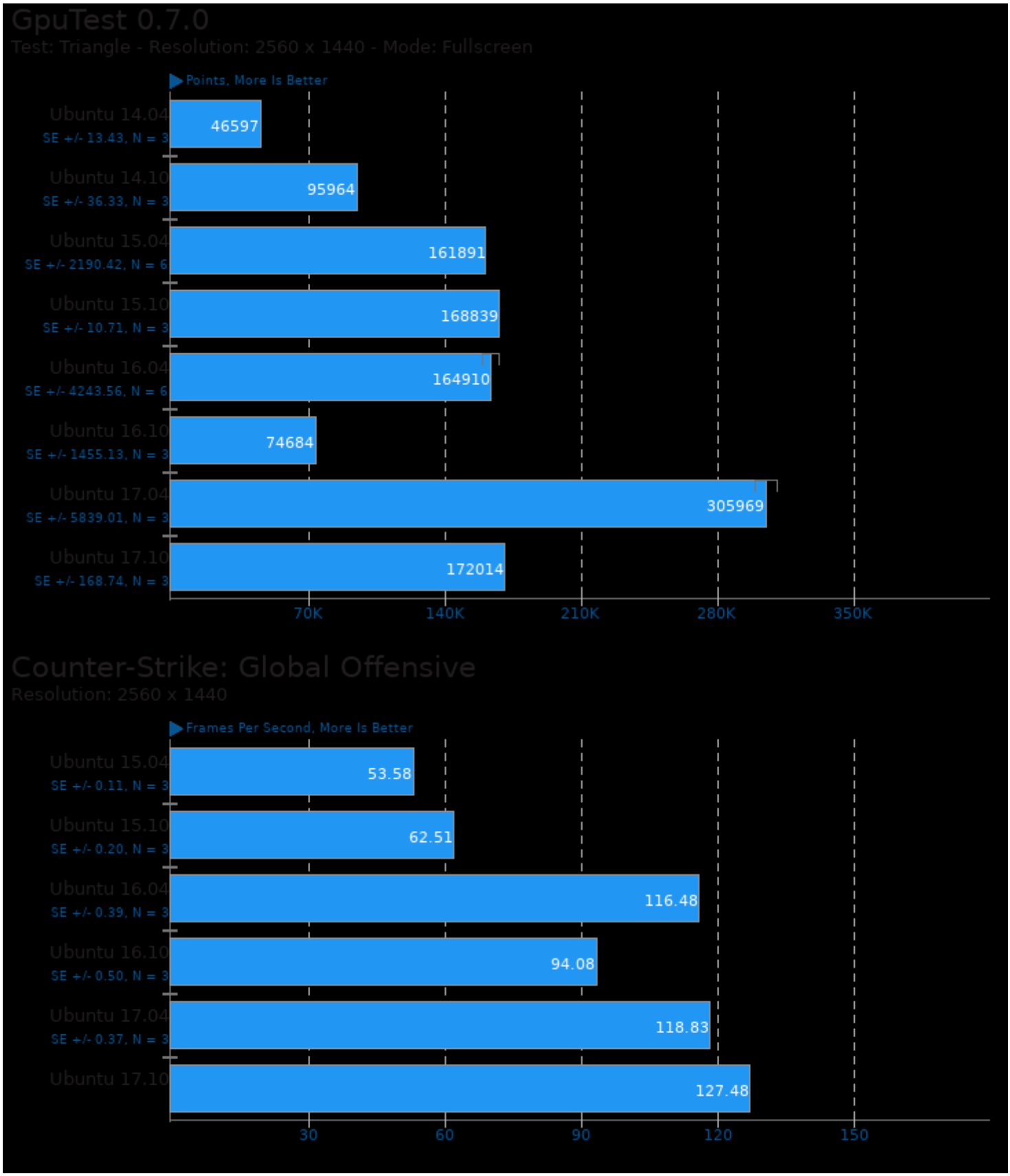


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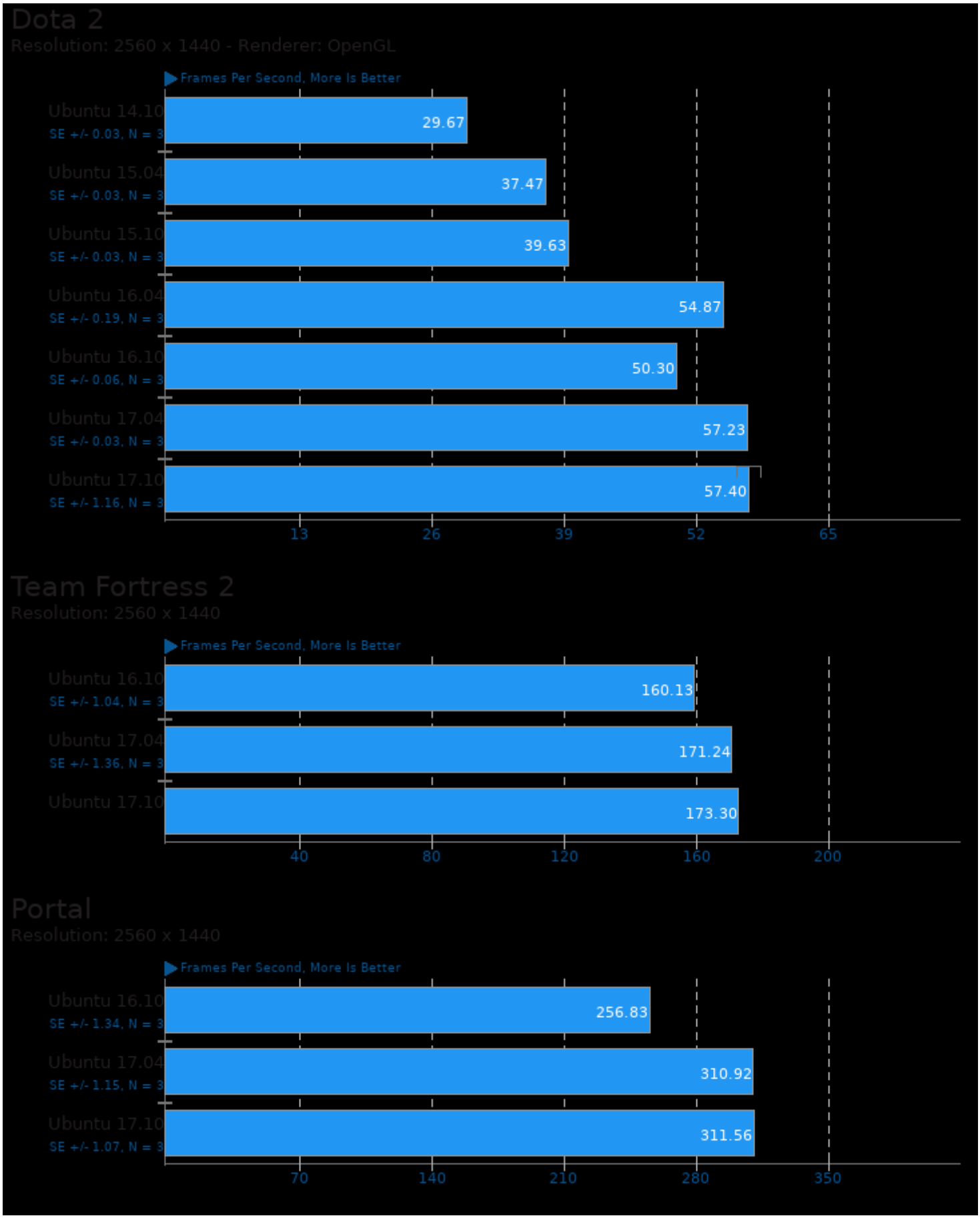




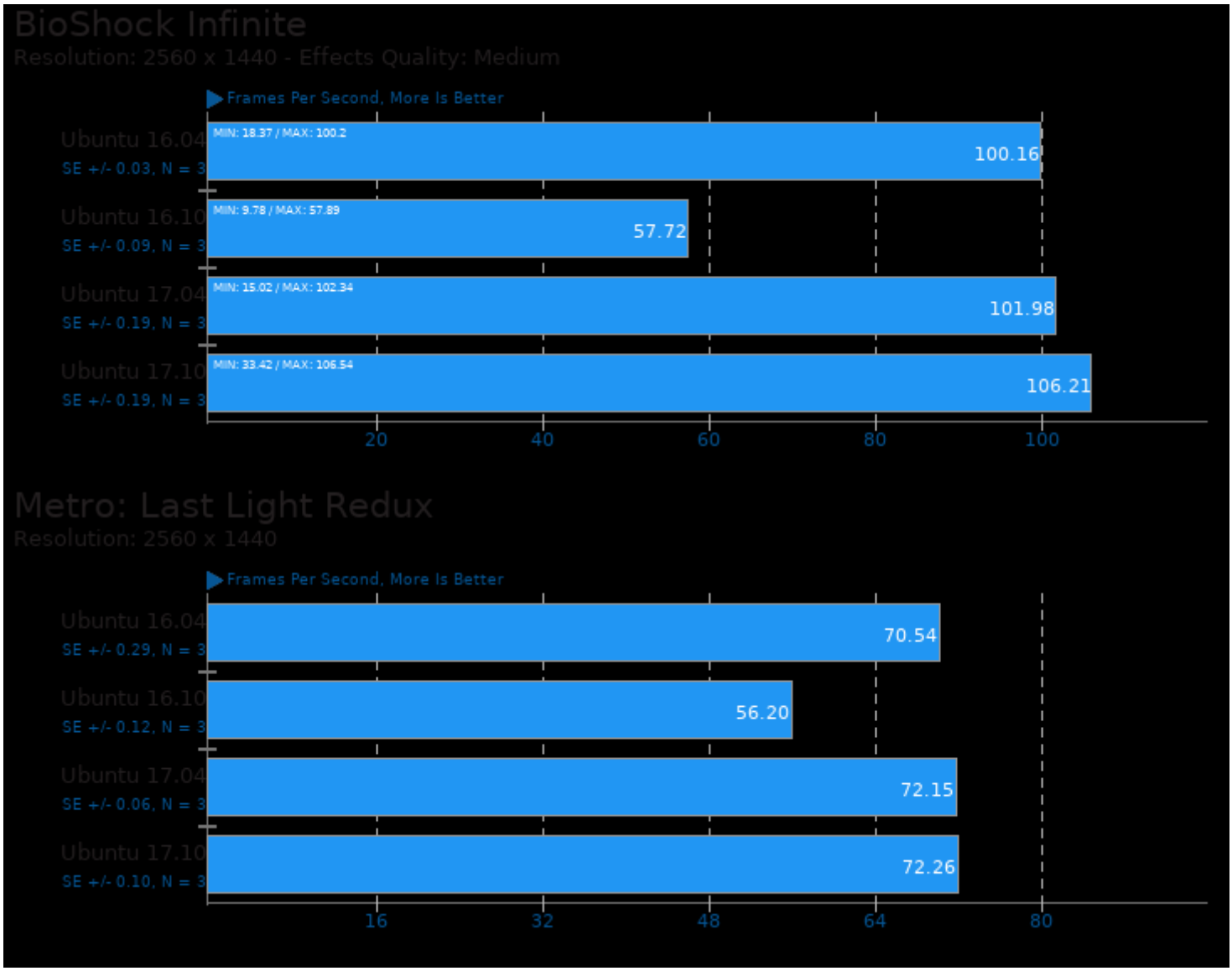
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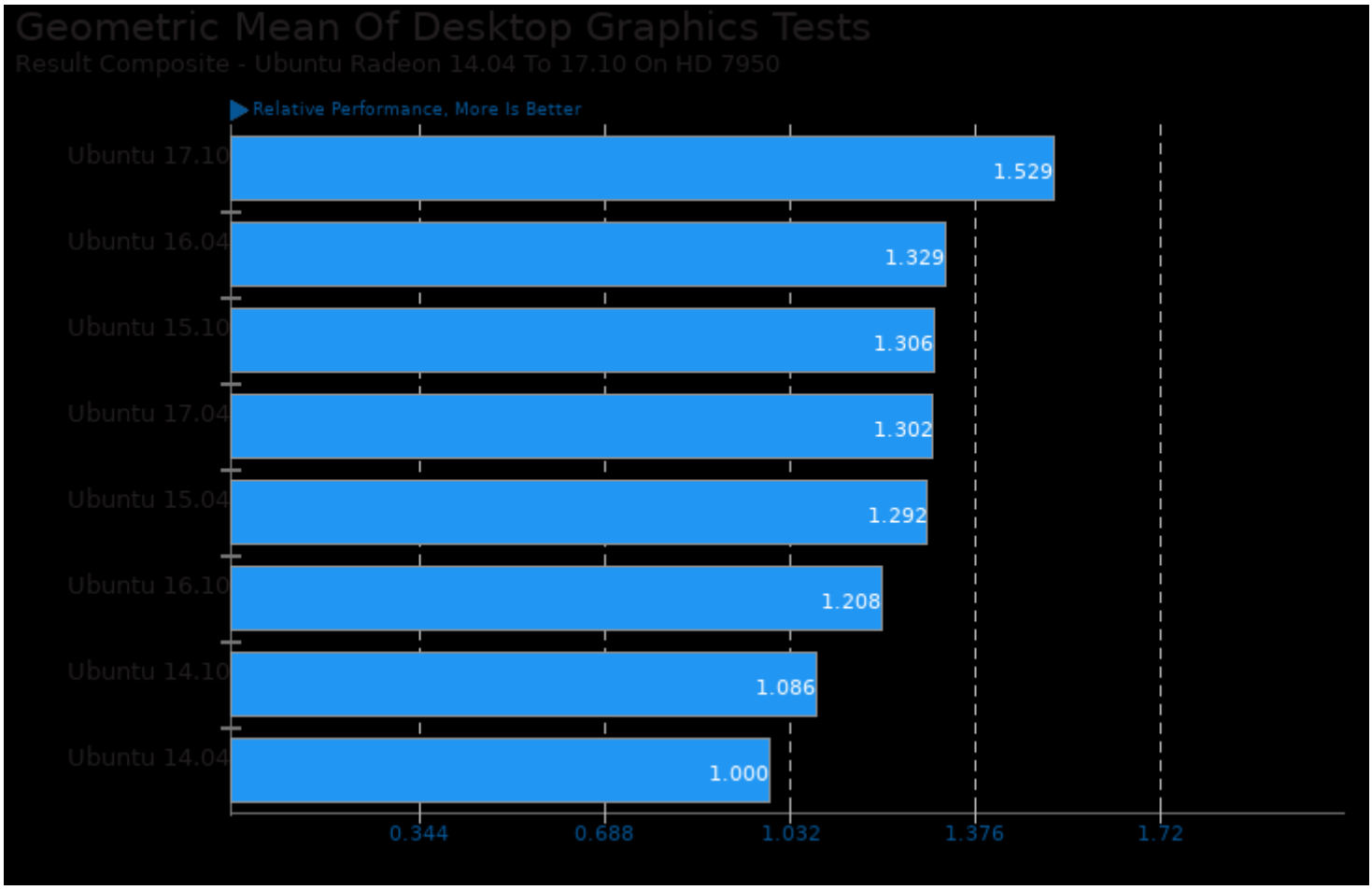


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These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/xonotic, pts/openarena and pts/glmark2

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 08:57.