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Intel DRM Linux 4.12

Intel Core i7-7700K testing with a MSI Z270-A PRO (MS-7A71) v1.0 and Intel HD 630 (Kaby Lake GT2) 3072MB on Ubuntu 17.04 via the Phoronix Test Suite.

Automated Executive Summary

Linux 4.12 Git had the most wins, coming in first place for 45% of the tests.

Based on the geometric mean of all complete results, the fastest (Linux 4.12 Git) was 1.008x the speed of the slowest (Linux 4.11). Linux 4.10 was 0.998x the speed of Linux 4.12 Git and Linux 4.11 was 0.994x the speed of Linux 4.10.

Test Systems:

Linux 4.10

Processor: Intel Core i7-7700K @ 4.50GHz (8 Cores), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f + Z270, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + Samsung SSD 950 PRO 256GB, Graphics: Intel HD 630 (Kaby Lake GT2) 3072MB (1150MHz), Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Realtek

RTL8111/8168/8411

OS: Ubuntu 17.04, Kernel: 4.10.0-041000-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 17.2.0-devel- padoka PPA, Vulkan: 1.0.42, Compiler: GCC 6.3.0 20170406, File-System: ext4, Screen Resolution: 1920x1080

Processor Notes: Scaling Governor: intel_pstate powersave

Linux 4.11

Processor: Intel Core i7-7700K @ 4.50GHz (8 Cores), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f + Z270, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + Samsung SSD 950 PRO 256GB, Graphics: Intel HD 630 (Kaby Lake GT2) 3072MB (1150MHz), Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 17.04, Kernel: 4.11.0-041100-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 17.2.0-devel- padoka PPA, Vulkan: 1.0.42, Compiler: GCC 6.3.0 20170406, File-System: ext4, Screen Resolution: 1920x1080

Processor Notes: Scaling Governor: intel_pstate powersave

Linux 4.12 Git

Processor: Intel Core i7-7700K @ 4.50GHz (8 Cores), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f + Z270, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + Samsung SSD 950 PRO 256GB, Graphics: Intel HD 630 (Kaby Lake GT2) 3072MB (1150MHz), Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 17.04, Kernel: 4.12.0-999-generic (x86_64) 20170516, Desktop: Unity 7.5.0, Display Server: X Server 1.19.3, Display Driver: modesetting 1.19.3, OpenGL: 4.5 Mesa 17.2.0-devel- padoka PPA, Vulkan: 1.0.42, Compiler: GCC 6.3.0 20170406, File-System: ext4, Screen Resolution: 1920x1080

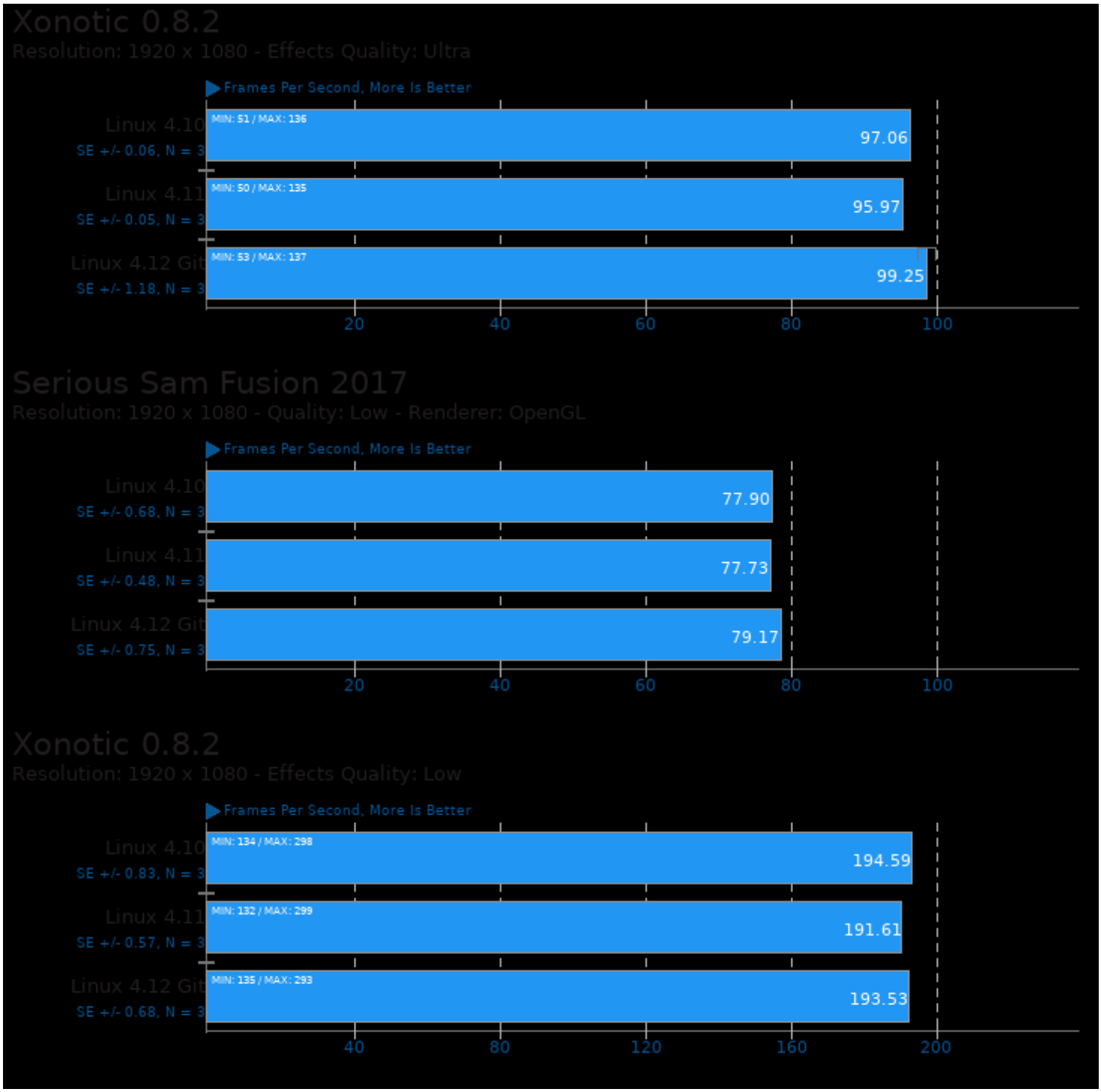
Processor Notes: Scaling Governor: intel_pstate powersave

	Linux 4.10	Linux 4.11	Linux 4.12 Git
Xonotic - 1920 x 1080 - Ultra (FPS)	97.06	**95.97**	**99.25**
Normalized	97.79%	96.7%	100%
Standard Deviation	0.1%	0.1%	2.1%
Serious Sam Fusion 2017 - 1920 x 1080 - Low - OpenGL (FPS)	77.90	**77.73**	**79.17**
Normalized	98.4%	98.18%	100%
Standard Deviation	1.5%	1.1%	1.6%
Xonotic - 1920 x 1080 - Low (FPS)	**194.59**	**191.61**	193.53
Normalized	100%	98.47%	99.46%
Standard Deviation	0.7%	0.5%	0.6%
ET: Legacy - Renderer2 - 1920 x 1080 (FPS)	**87.43**	**86.17**	86.33
Normalized	100%	98.56%	98.74%
Standard Deviation	0.3%	0.2%	0.3%

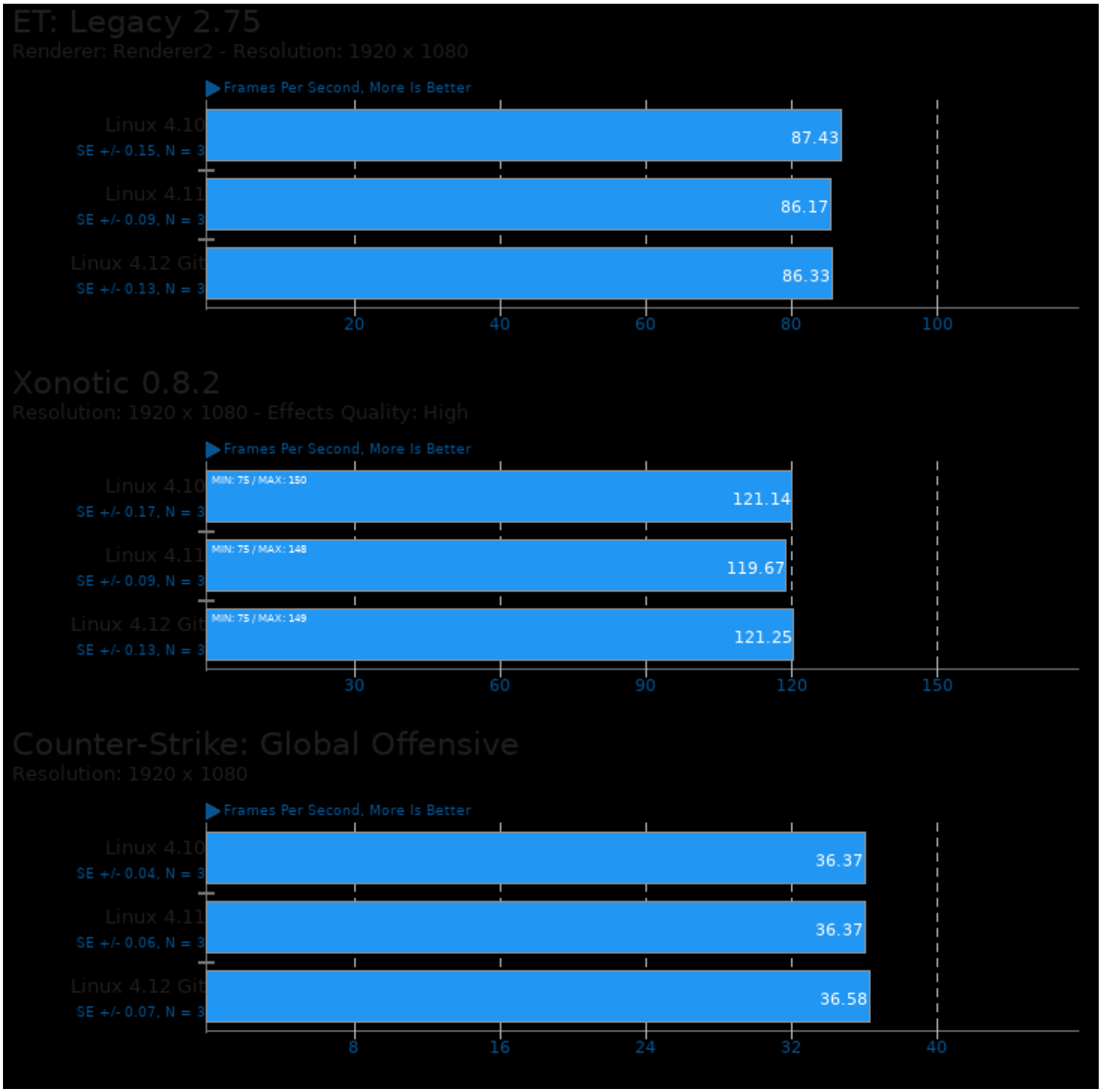
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Xonotic - 1920 x 1080 - High (FPS)	121.14	**119.67**	**121.25**
Normalized	99.91%	98.7%	100%
Standard Deviation	0.3%	0.1%	0.2%
Counter-Strike: Global Offensive - 1920 x 1080 (FPS)	**36.37**	**36.37**	**36.58**
Normalized	99.43%	99.43%	100%
Standard Deviation	0.2%	0.3%	0.3%
Portal - 1920 x 1080 (FPS)	**110.45**	**109.85**	109.90
Normalized	100%	99.46%	99.5%
Standard Deviation	0.2%	0%	0.2%
Team Fortress 2 - 1920 x 1080 (FPS)	63.44	**63.38**	**63.71**
Normalized	99.58%	99.48%	100%
Standard Deviation	0.2%	0.3%	0.1%
Serious Sam Fusion 2017 - 1920 x 1080 - Low - Vulkan (FPS)	63.77	**63.80**	**63.53**
Normalized	99.95%	100%	99.58%
Standard Deviation	1.1%	1%	2%
Dota 2 - 1920 x 1080 - Vulkan (FPS)	**17.20**	**17.13**	**17.20**
Normalized	100%	99.59%	100%
Standard Deviation	0%	0.3%	0%
Dota 2 - 1920 x 1080 - OpenGL (FPS)	**17.30**	**17.23**	**17.23**
Normalized	100%	99.6%	99.6%
Standard Deviation	0%	0.3%	0.3%

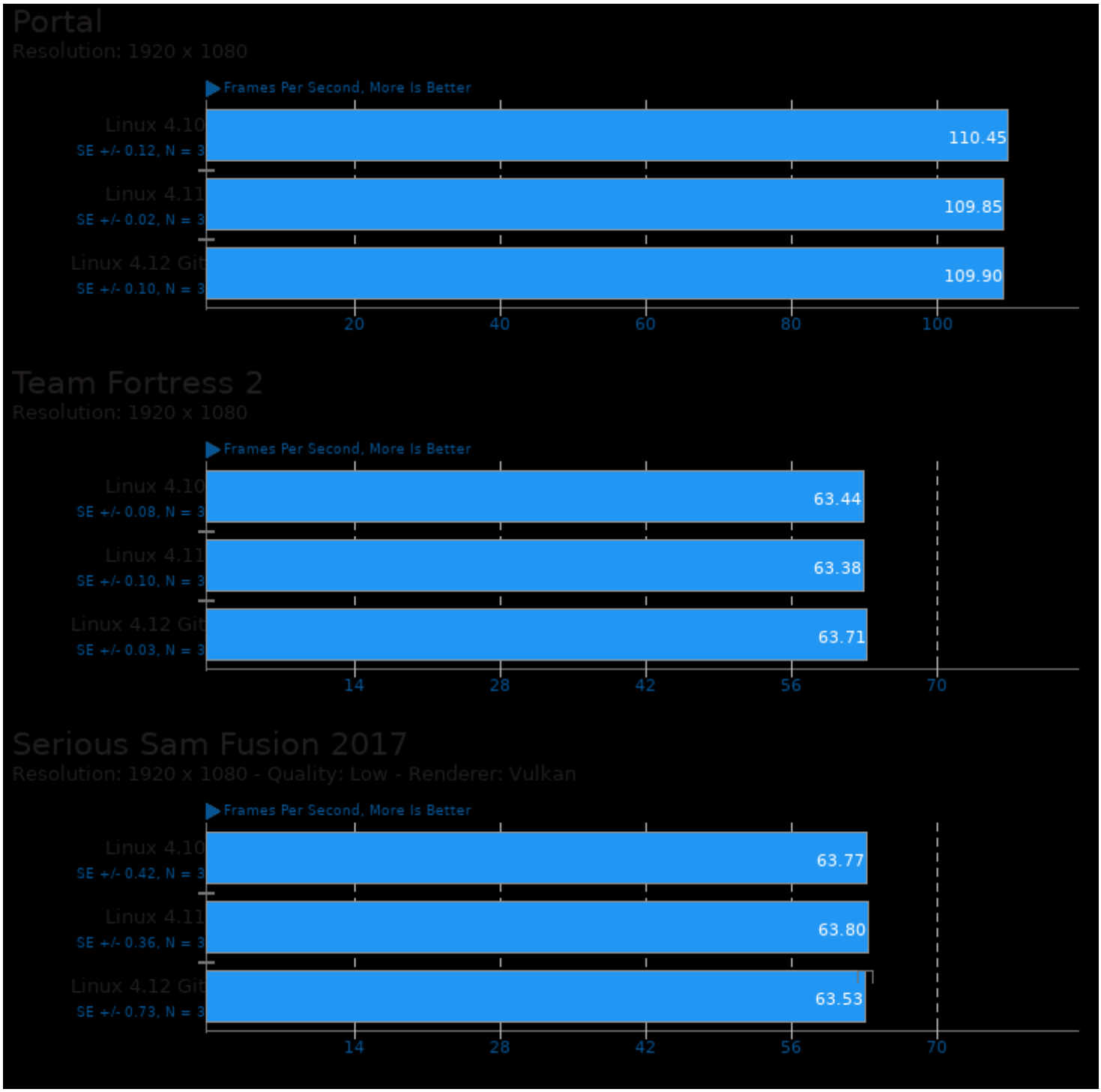
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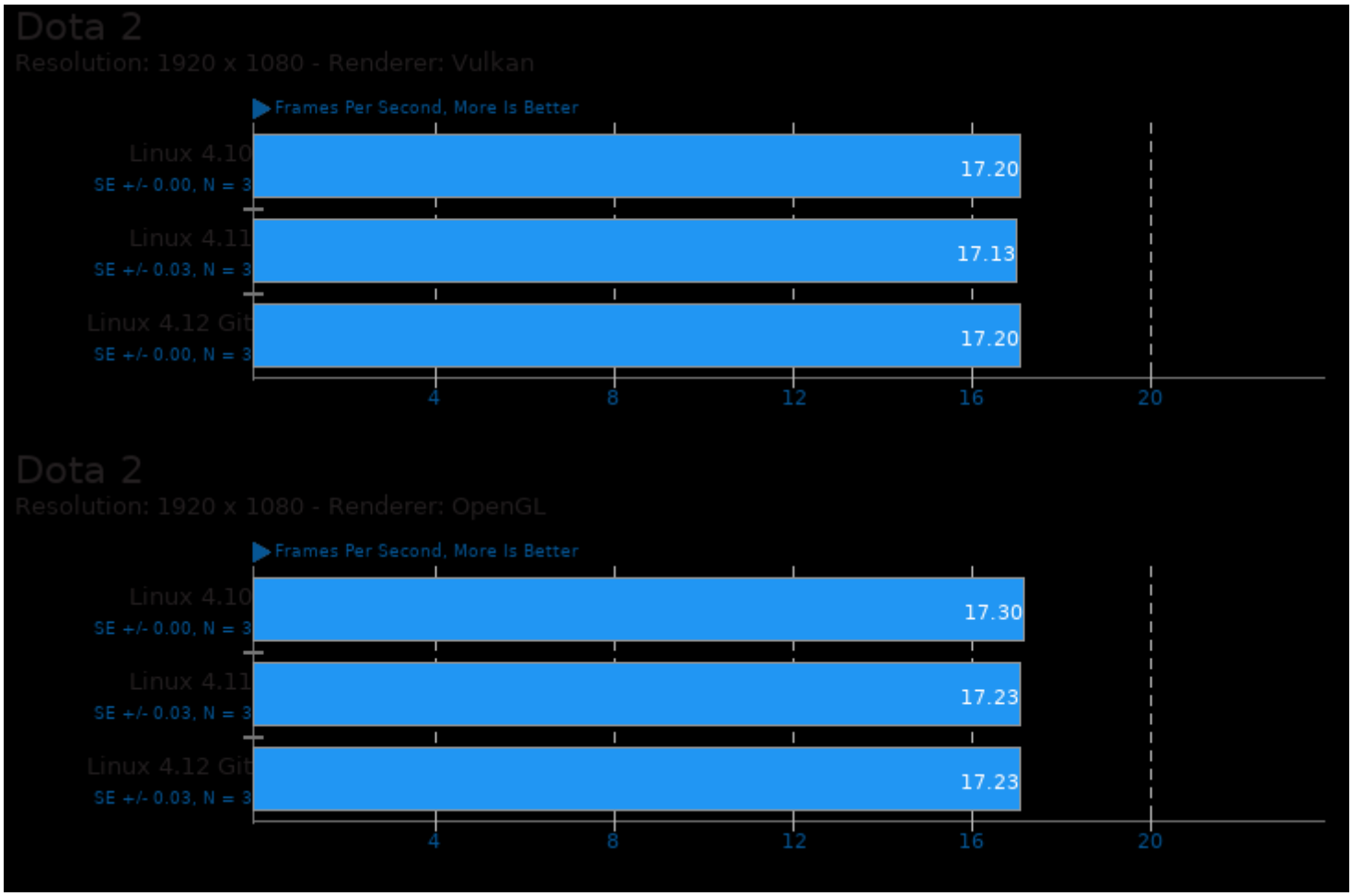
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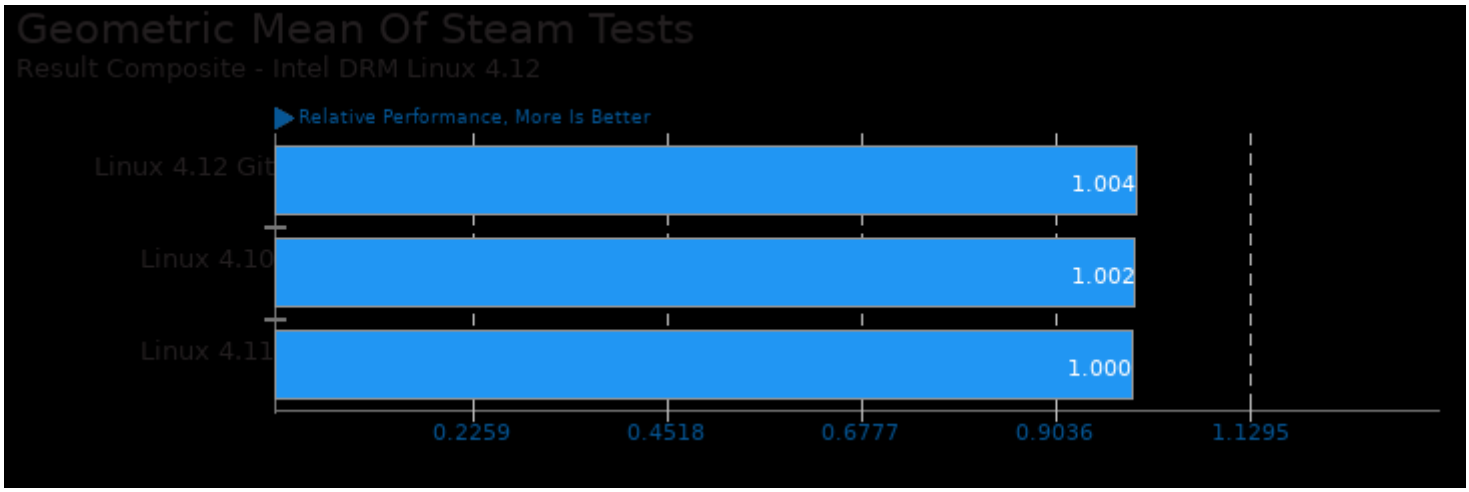


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These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/csgo, pts/dota2, pts/portal, pts/sam2017 and pts/tf2

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 11:26.