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Mesa No Error Pentium

Intel Pentium G4600 testing with a MSI Z270-A PRO (MS-7A71) v1.0 and MSI AMD POLARIS10 (DRM 3.15.0 / 4.12.0-999-generic LLVM 5.0.0) 8192MB on Ubuntu 17.04 via the Phoronix Test Suite.

Automated Executive Summary

Default had the most wins, coming in first place for 56% of the tests.

Based on the geometric mean of all complete results, the fastest (Default) was 1.008x the speed of the slowest (MESA_NO_ERROR=1).

The results with the greatest spread from best to worst included:

Team Fortress 2 (CPU Usage (Summary) Monitor) at 190.098x
Tomb Raider (CPU Usage (Summary) Monitor) at 177.66x
Metro 2033 Redux (CPU Usage (Summary) Monitor) at 169.38x
Portal (CPU Usage (Summary) Monitor) at 143.863x
Civilization VI (CPU Usage (Summary) Monitor) at 109.039x
GpuTest (CPU Usage (Summary) Monitor) at 106.46x
Deus Ex: Mankind Divided (CPU Usage (Summary) Monitor) at 100x
Dota 2 (CPU Usage (Summary) Monitor) at 97.03x
Tesseract (CPU Usage (Summary) Monitor) at 82.36x

ET: Legacy (CPU Usage (Summary) Monitor) at 73.52x.

Test Systems:

Default

Processor: Intel Pentium G4600 @ 3.60GHz (4 Cores), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 590f + Z270, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 128GB THNSN5128GPU7 TOSHIBA, Graphics: MSI AMD POLARIS10 (DRM 3.15.0 / 4.12.0-999-generic LLVM 5.0.0) 8192MB, Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 17.04, Kernel: 4.12.0-999-generic (x86_64) 20170627, 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 (LLVM 5.0.0), Vulkan: 1.0.42, Compiler: GCC 6.3.0 20170406, File-System: ext4, Screen Resolution: 1920x1080

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

MESA_NO_ERROR=1

Processor: Intel Pentium G4600 @ 3.60GHz (4 Cores), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Xeon E3-1200 v6/7th + Z270, Memory: 16384MB, Disk: 525GB Crucial_CT525MX3 + 128GB THNSN5128GPU7 TOSHIBA, Graphics: MSI AMD POLARIS10 (DRM 3.15.0 / 4.12.0-999-generic LLVM 5.0.0) 8192MB, Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Realtek RTL8111/8168/8411

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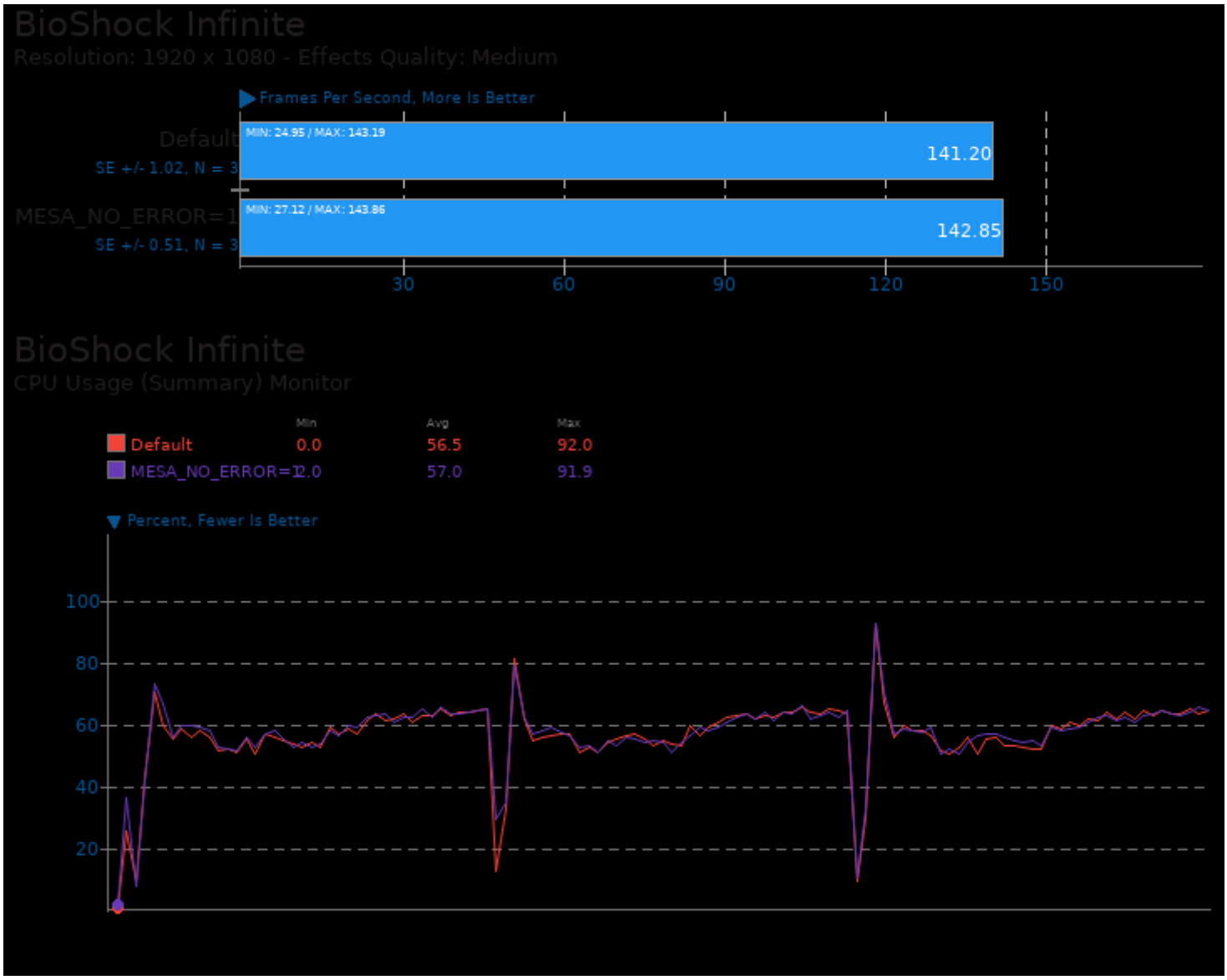
Environment Notes: MESA_NO_ERROR=1
Processor Notes: Scaling Governor: intel_pstate powersave
Graphics Notes: GLAMOR

	Default	MESA_NO_ERROR=1
BioShock Infinite - 1920 x 1080 - Medium (FPS)	**141.20**	**142.85**
Normalized	98.84%	100%
Standard Deviation	1.2%	0.6%
Dota 2 - 1920 x 1080 - OpenGL (FPS)	**99.83**	**100.37**
Normalized	99.46%	100%
Standard Deviation	0.2%	0.5%
Mad Max - 1920 x 1080 - Default - OpenGL - Camp Hollow Point (FPS)	**136.06**	**139.56**
Normalized	97.49%	100%

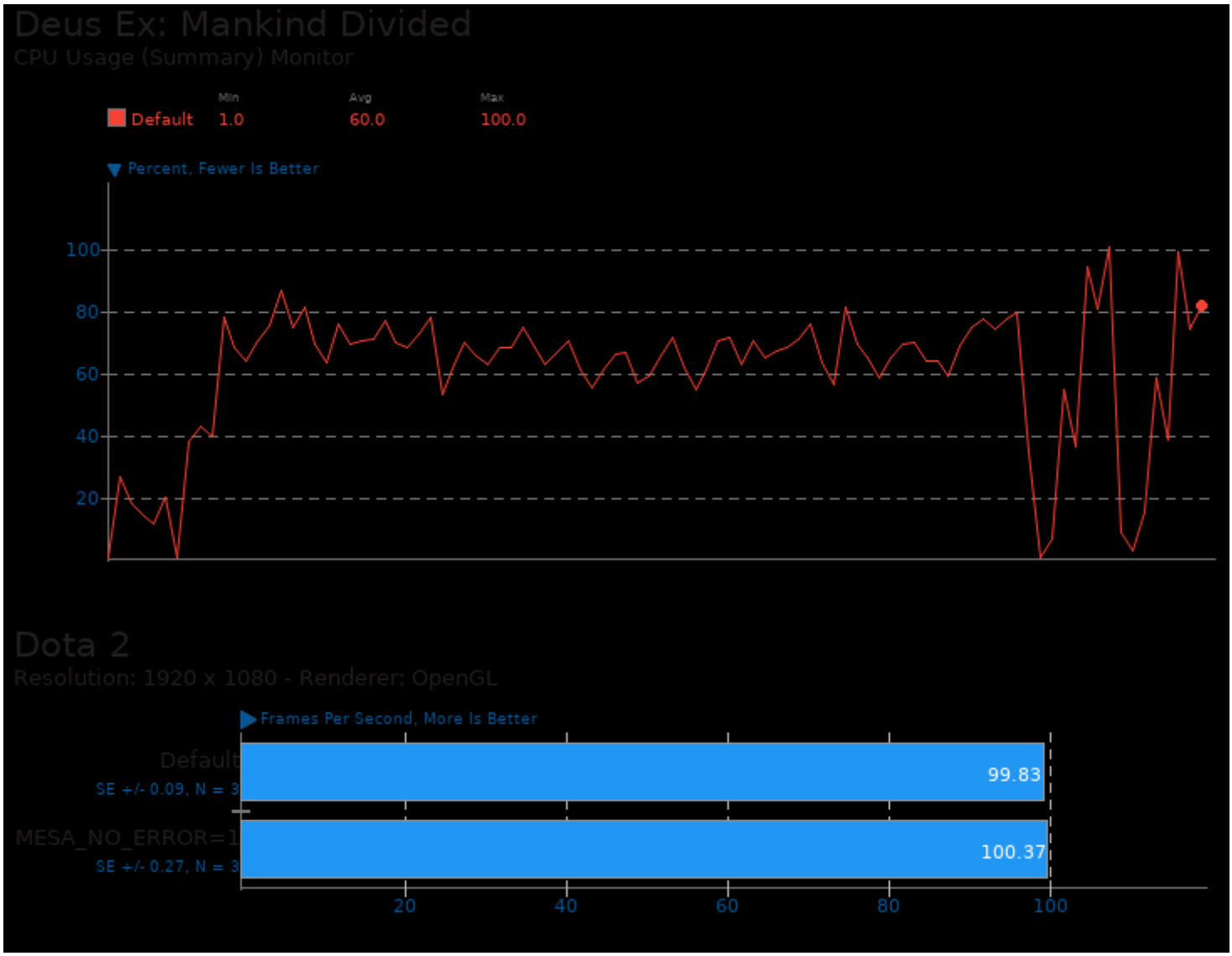
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Mad Max - 1920 x 1080 - Default - OpenGL - Stronghold (FPS)	51.39	48.19
Normalized	100%	93.77%
Mad Max - 1920 x 1080 - Default - OpenGL - H.G.a.D.i.D (FPS)	156.87	157.69
Normalized	99.48%	100%
Mad Max - 1920 x 1080 - Default - OpenGL - Landmover (FPS)	167.82	164.28
Normalized	100%	97.89%
Metro 2033 Redux - P.T.S.v.2.1 (FPS)	79.75	78.32
Normalized	100%	98.21%
Standard Deviation	0.6%	0.6%
Metro: Last Light Redux - 1920 x 1080 (FPS)	84.84	84.52
Normalized	100%	99.62%
Standard Deviation	0.3%	0.3%
Portal - 1920 x 1080 (FPS)	709.22	711.61
Normalized	99.66%	100%
Standard Deviation	1%	1.3%
Civilization VI - Lowest - 1920 x 1080 (FPS)	37.76	38.38
Normalized	98.38%	100%
Standard Deviation	0.4%	0.2%
Team Fortress 2 - 1920 x 1080 (FPS)	118.36	118.45
Normalized	99.92%	100%
Standard Deviation	0.7%	1.4%
Tomb Raider - 1920 x 1080 - Normal (FPS)	167.87	167.33
Normalized	100%	99.68%
Standard Deviation	0.6%	0.1%
Xonotic - 1920 x 1080 - Ultimate (FPS)	219.17	215.26
Normalized	100%	98.22%
Standard Deviation	1.1%	0.4%
Tesseract - 1920 x 1080 (FPS)	431.59	420.98
Normalized	100%	97.54%
Standard Deviation	1%	1.7%
ET: Legacy - Renderer2 - 1920 x 1080 (FPS)	182.80	188.63
Normalized	96.91%	100%
Standard Deviation	2.3%	3.3%
GpuTest - Furmark - 1920 x 1080 - Fullscreen (Points)	7323	7305
Normalized	100%	99.75%
Standard Deviation	0%	0.1%
GpuTest - Pixmark Piano - 1920 x 1080 - Fullscreen (Points)	1599	1594
Normalized	100%	99.69%
Standard Deviation	0.1%	0%
GpuTest - Triangle - 1920 x 1080 - Fullscreen (Points)	666602	590663
Normalized	100%	88.61%
Standard Deviation	2.9%	0.4%
GpuTest - Plot3D - 1920 x 1080 - Fullscreen (Points)	97285	94518
Normalized	100%	97.16%
Standard Deviation	0%	0.2%

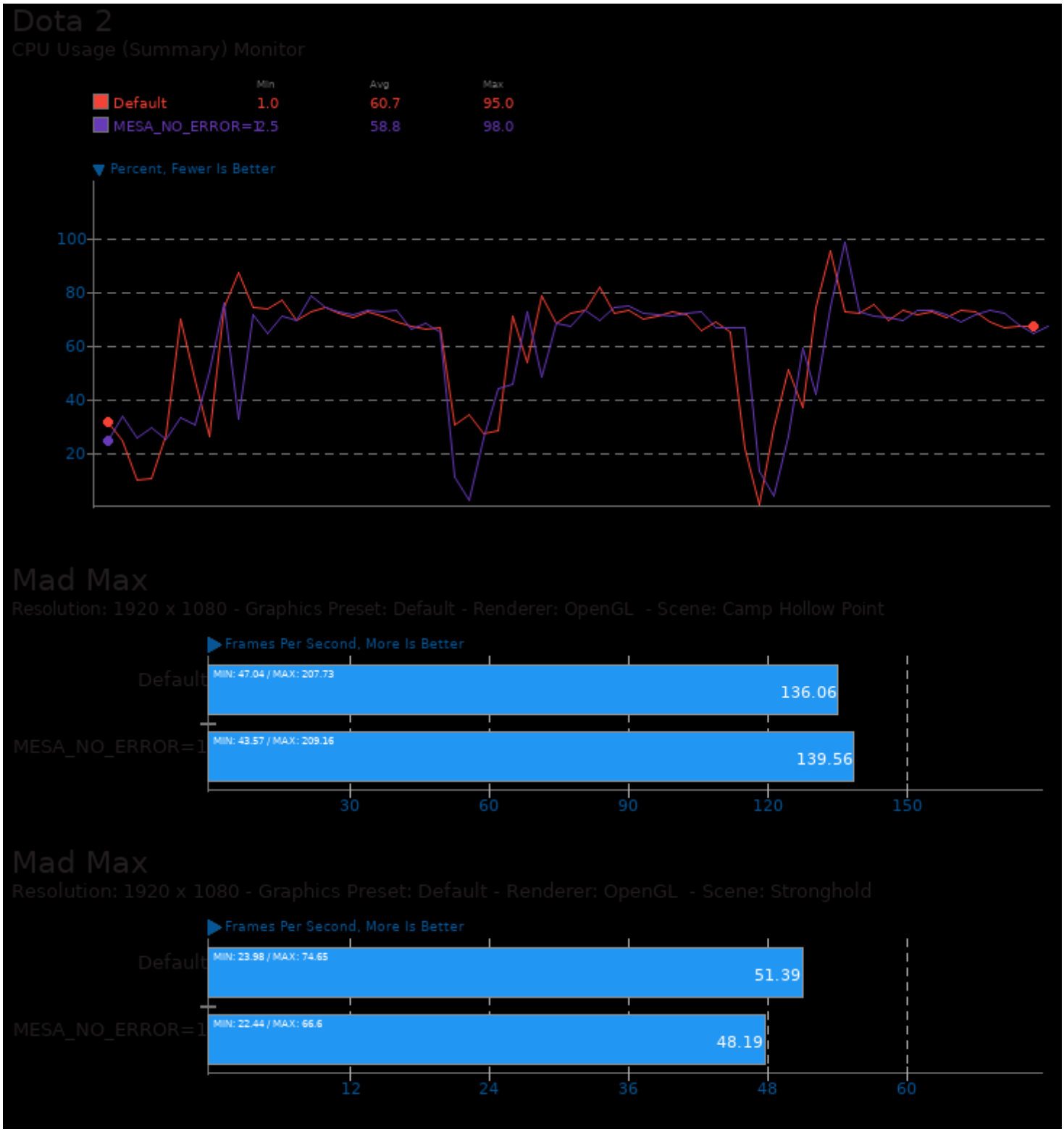
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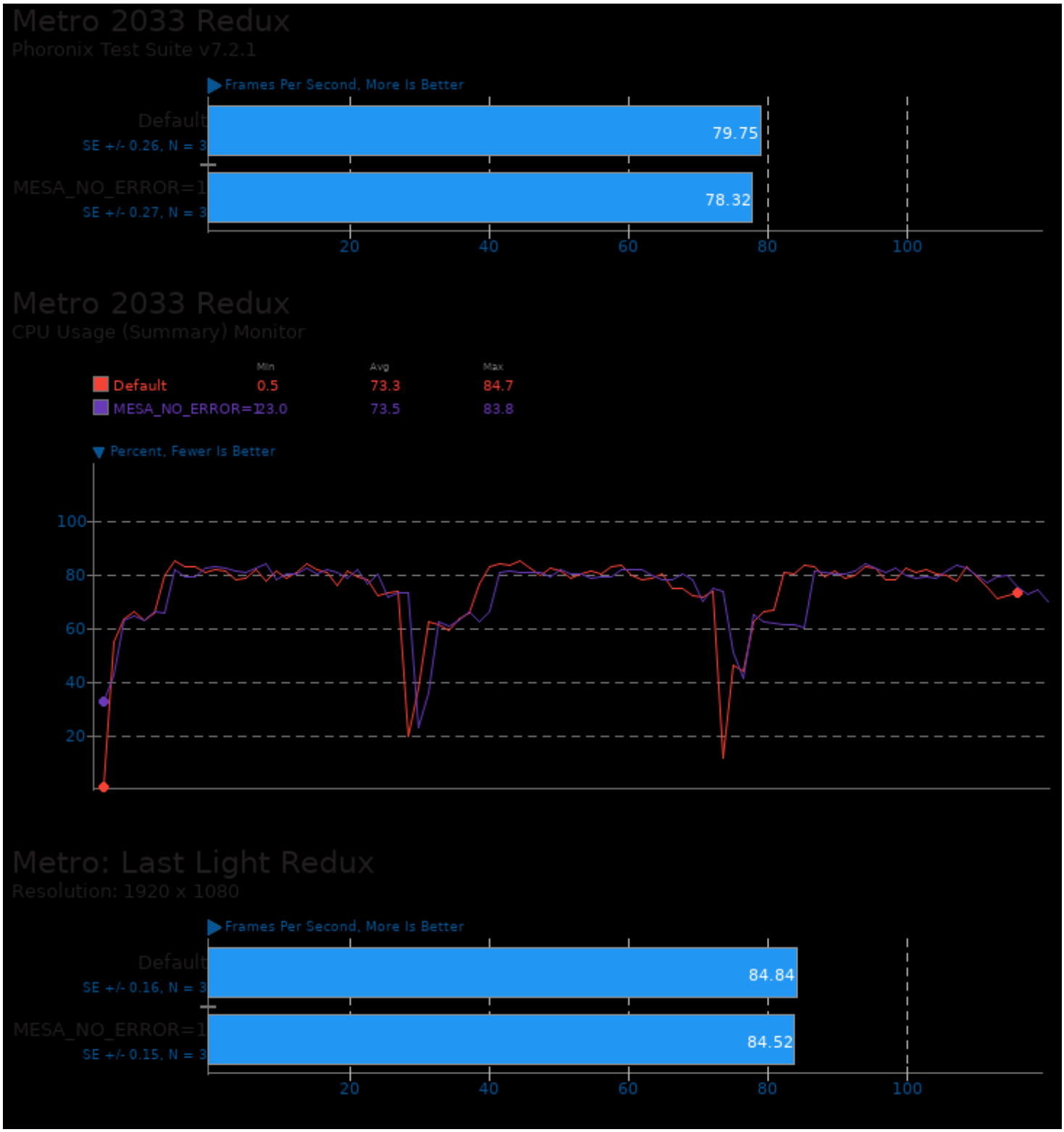
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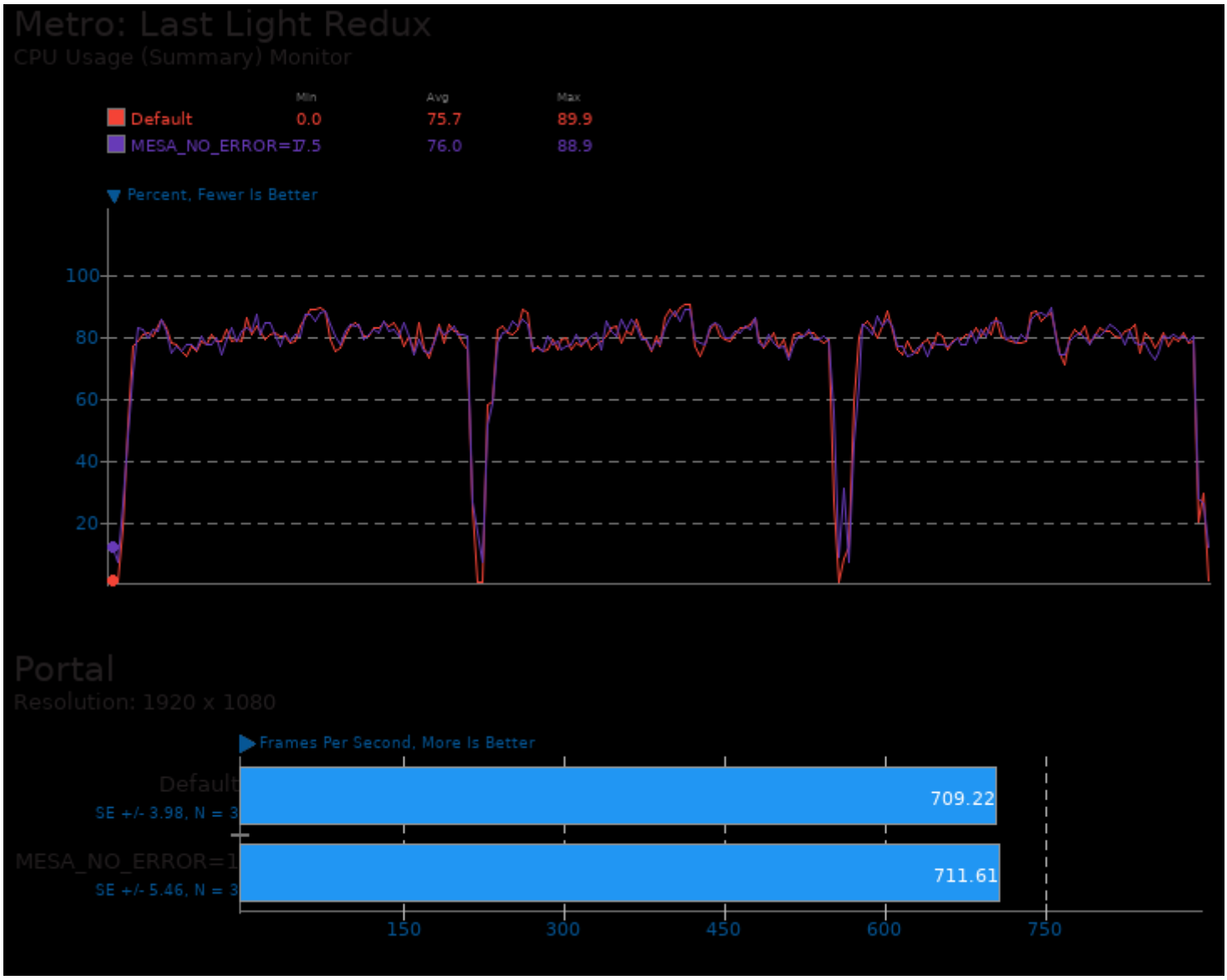
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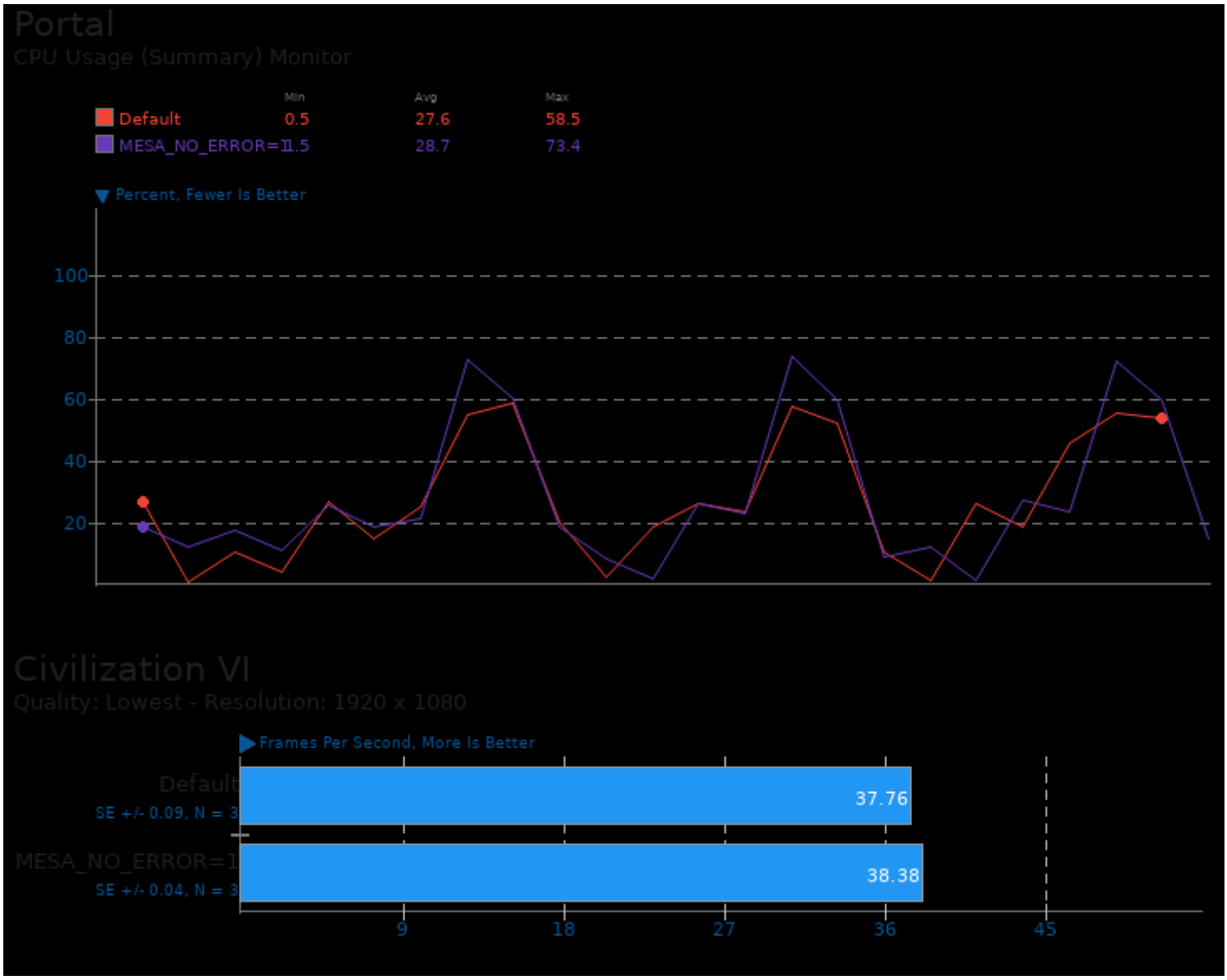
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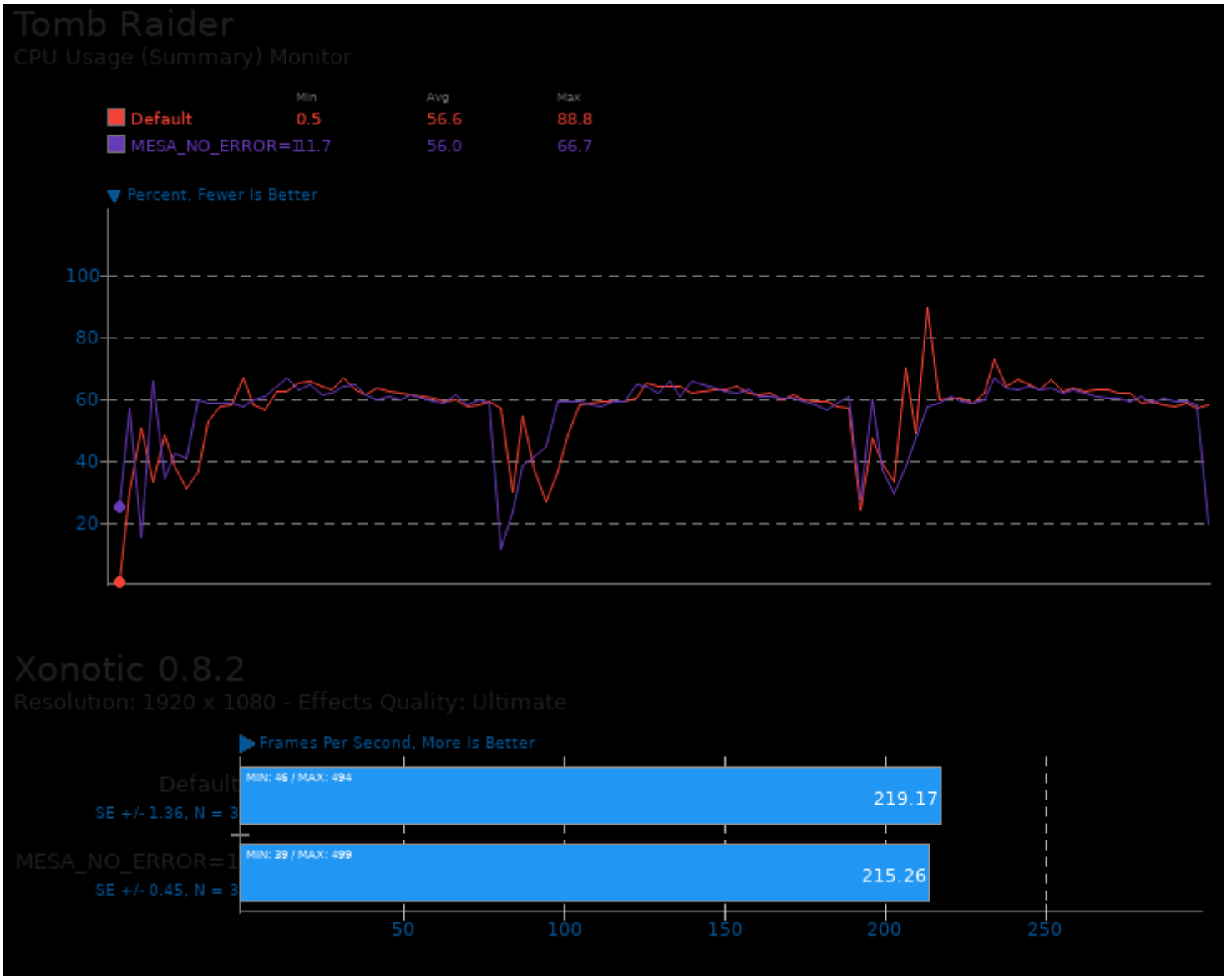
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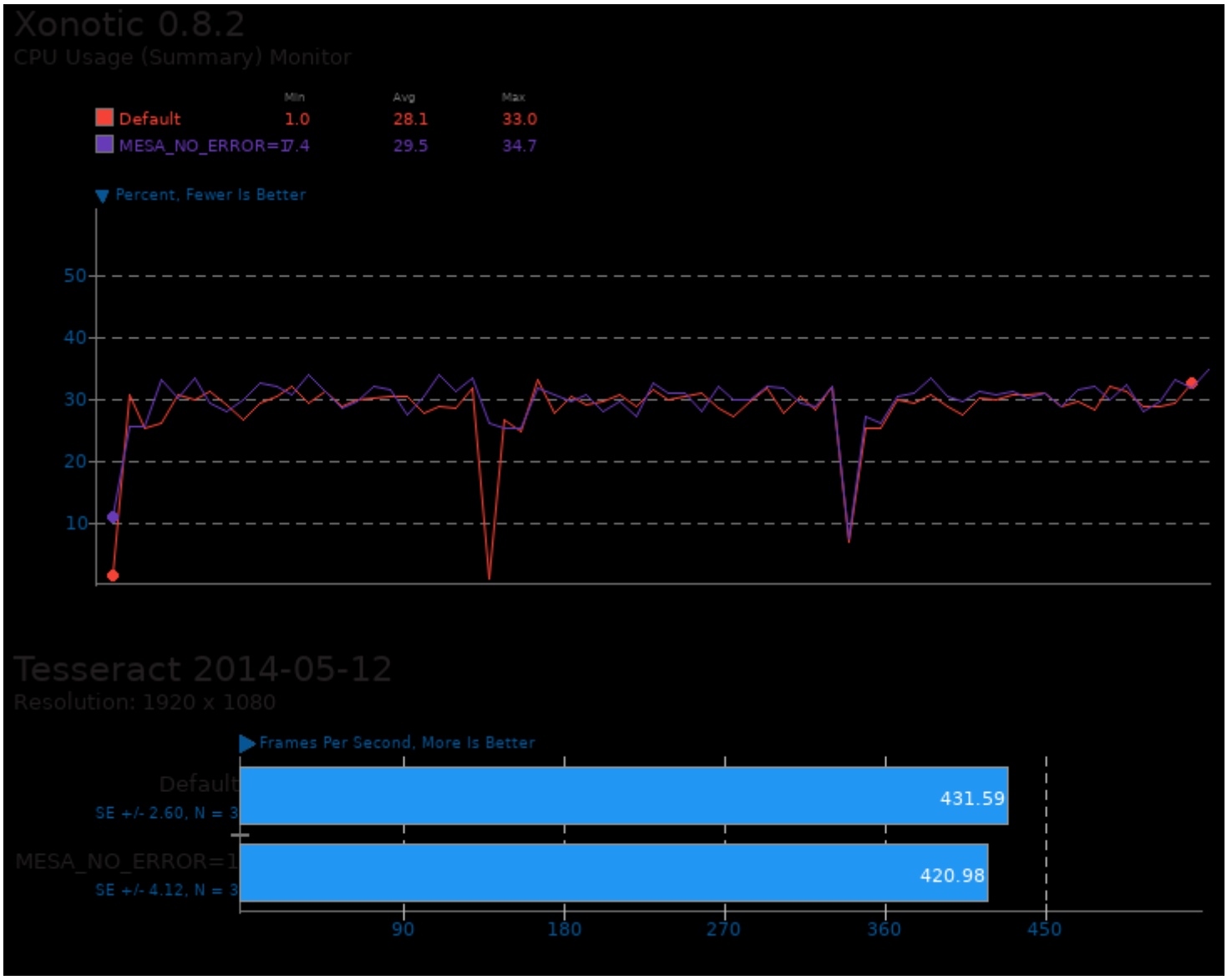
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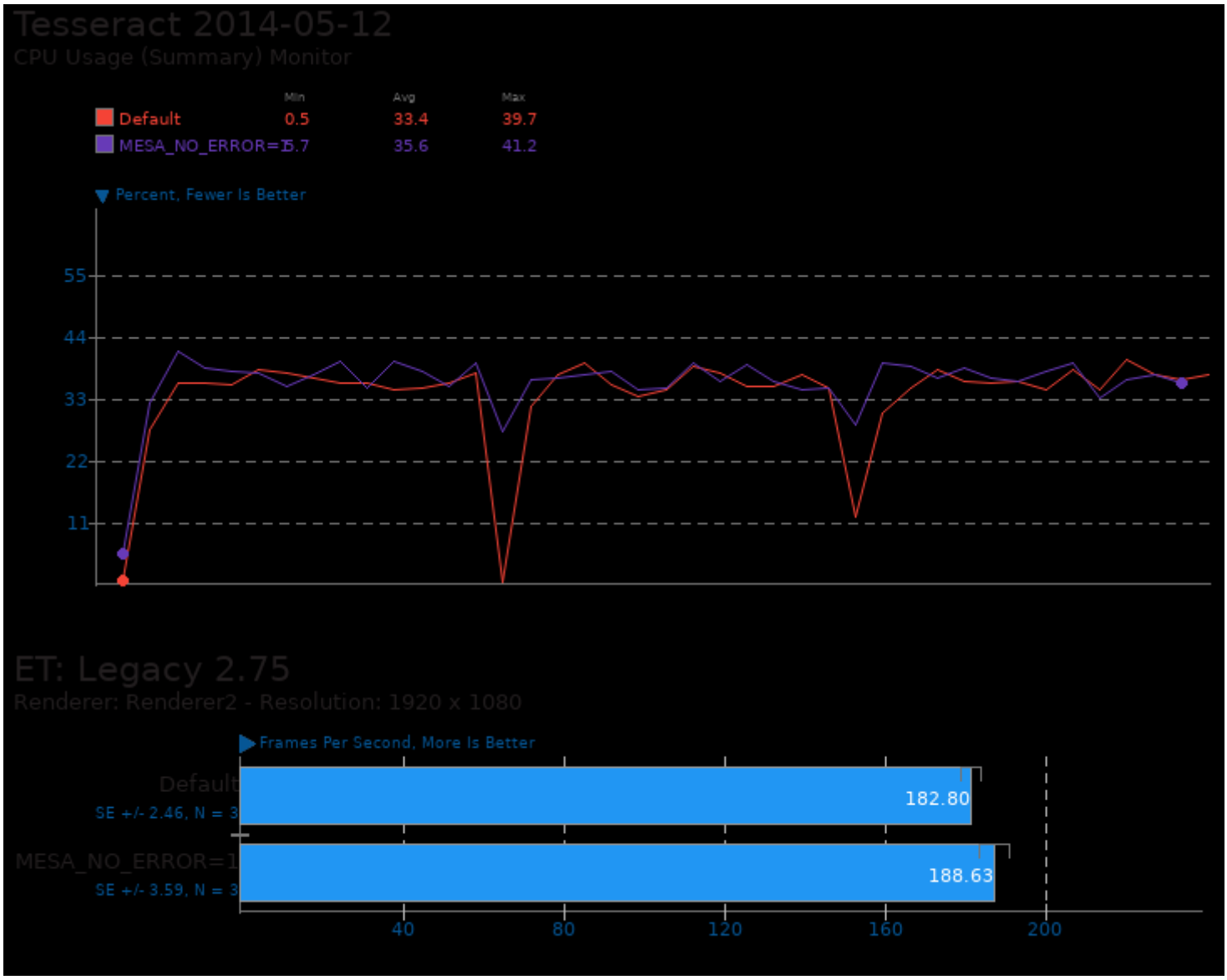
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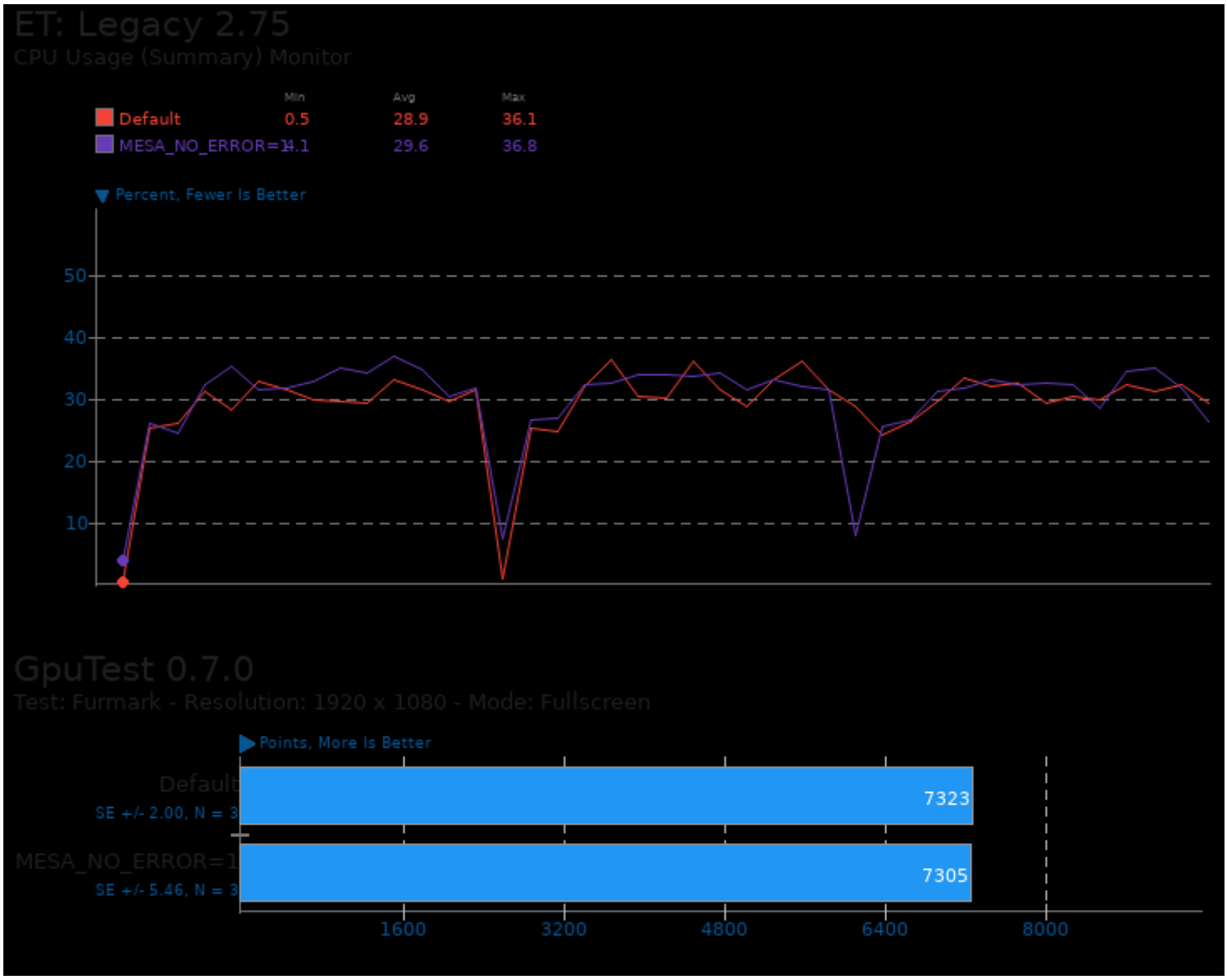
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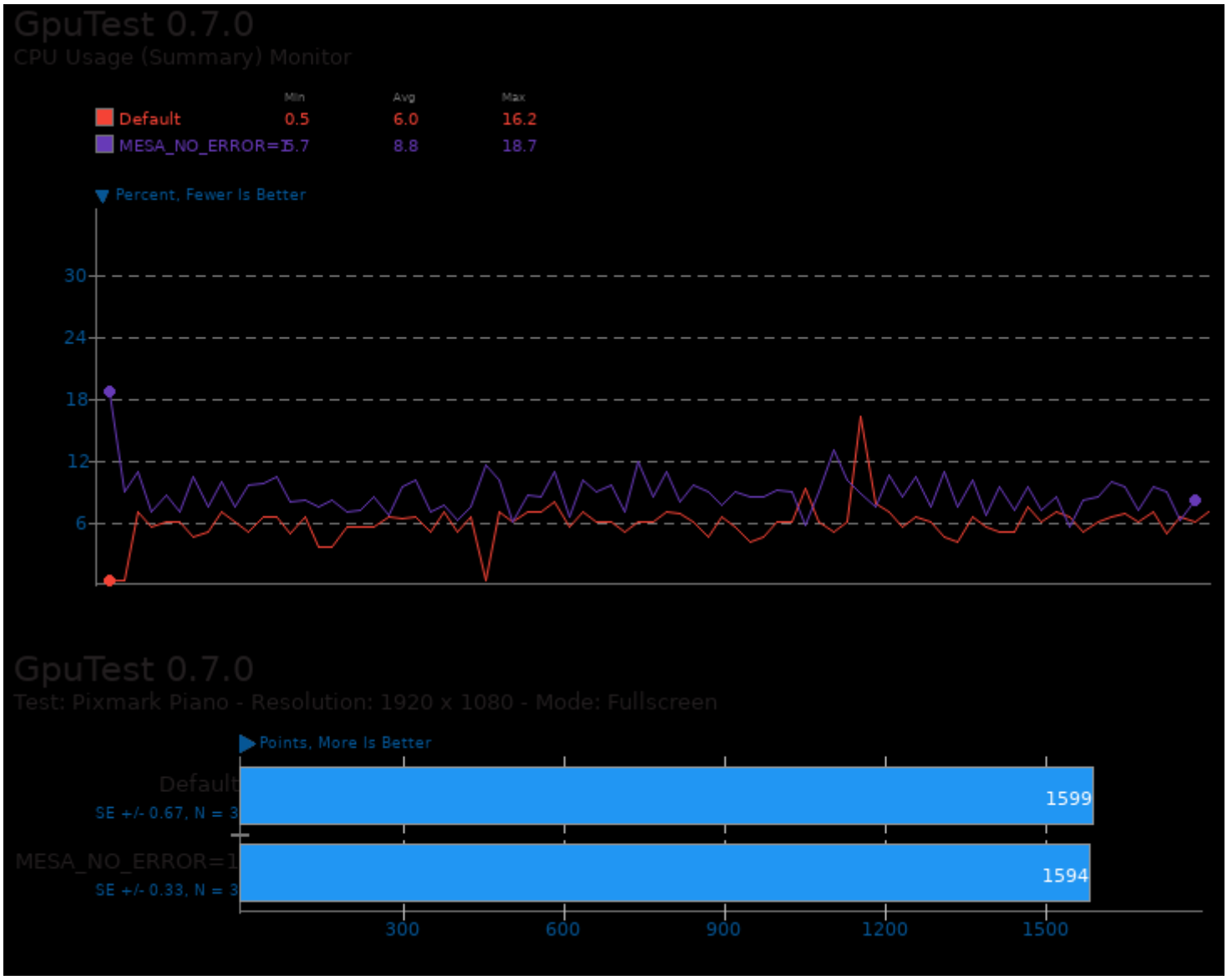
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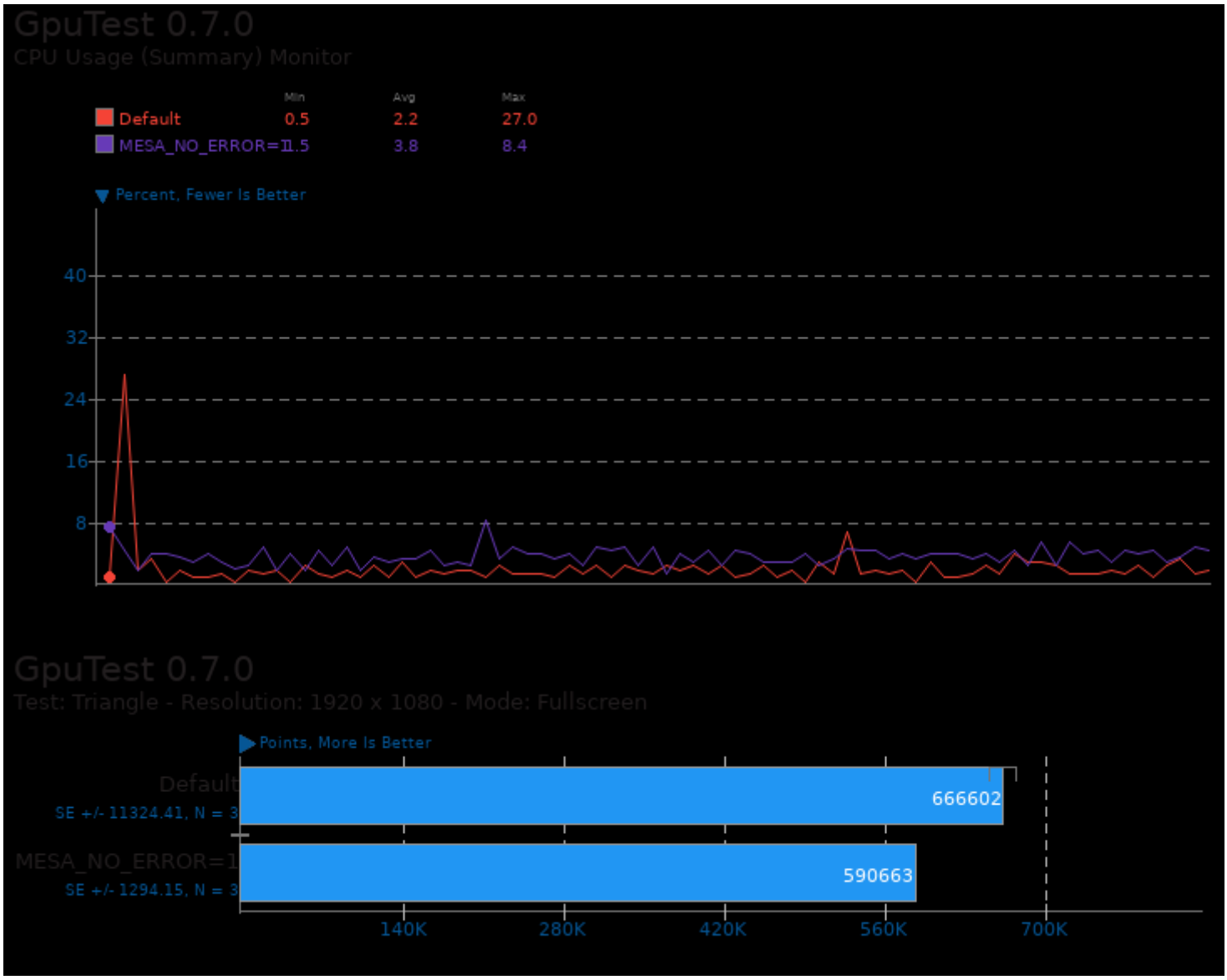
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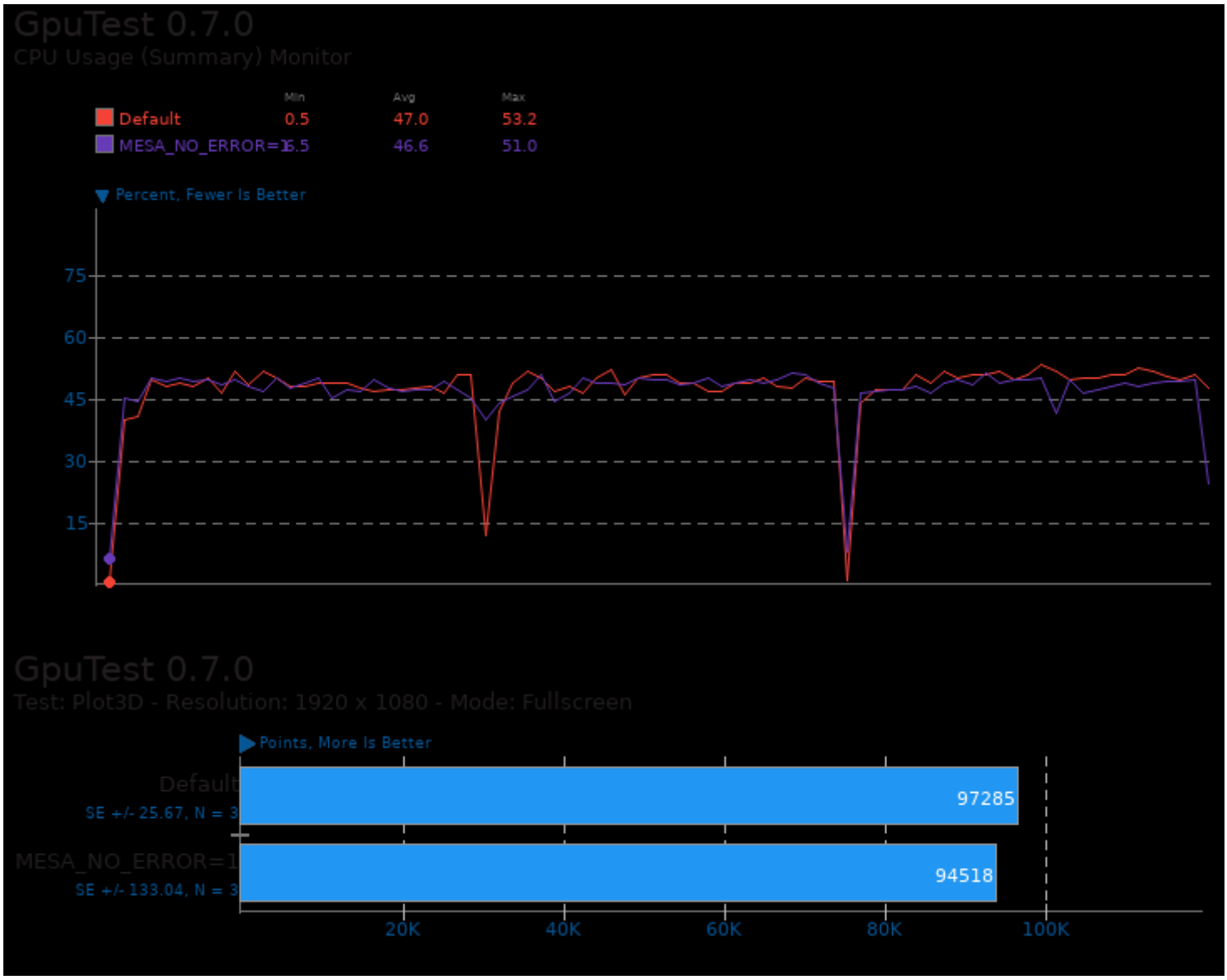
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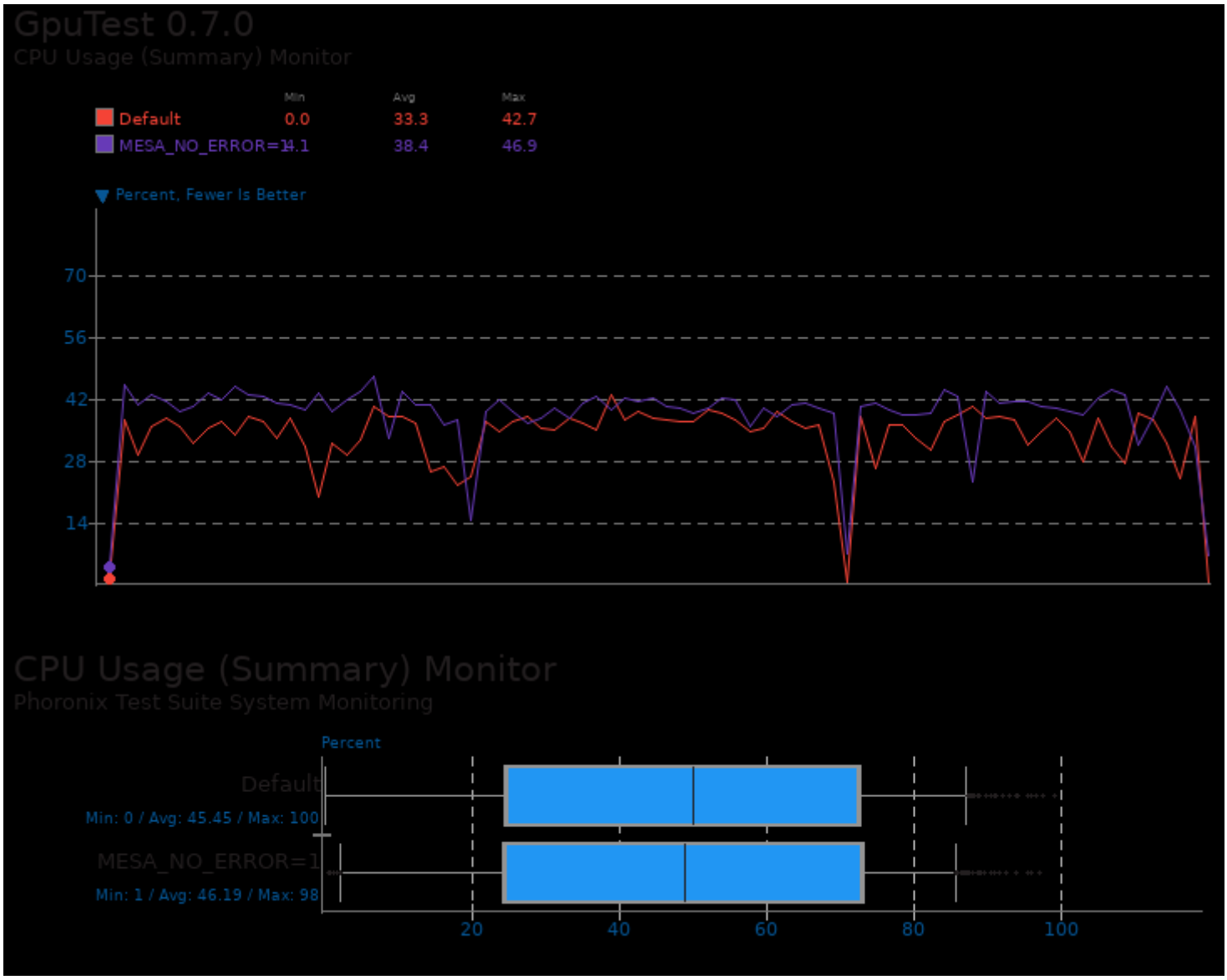
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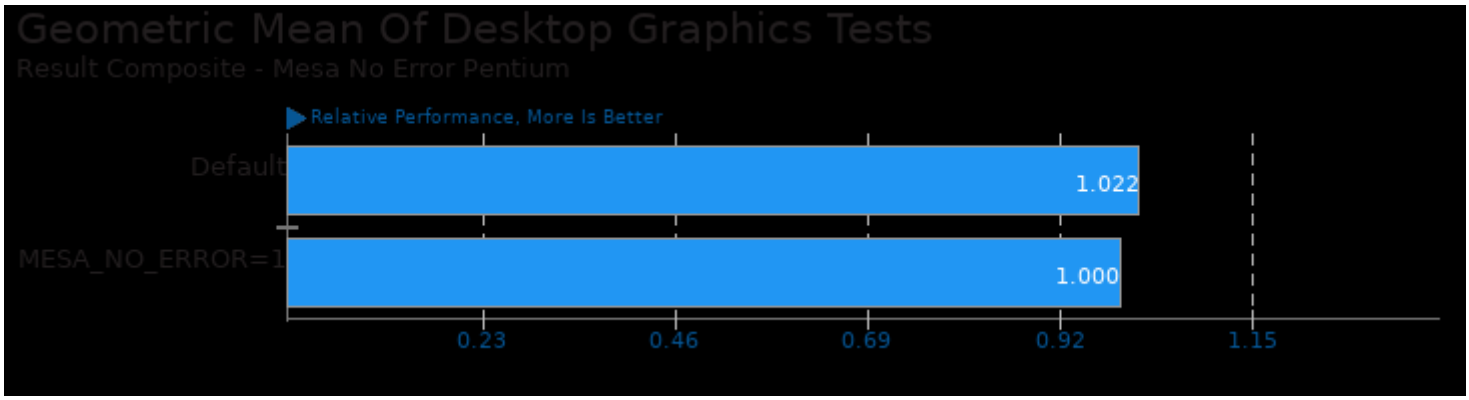


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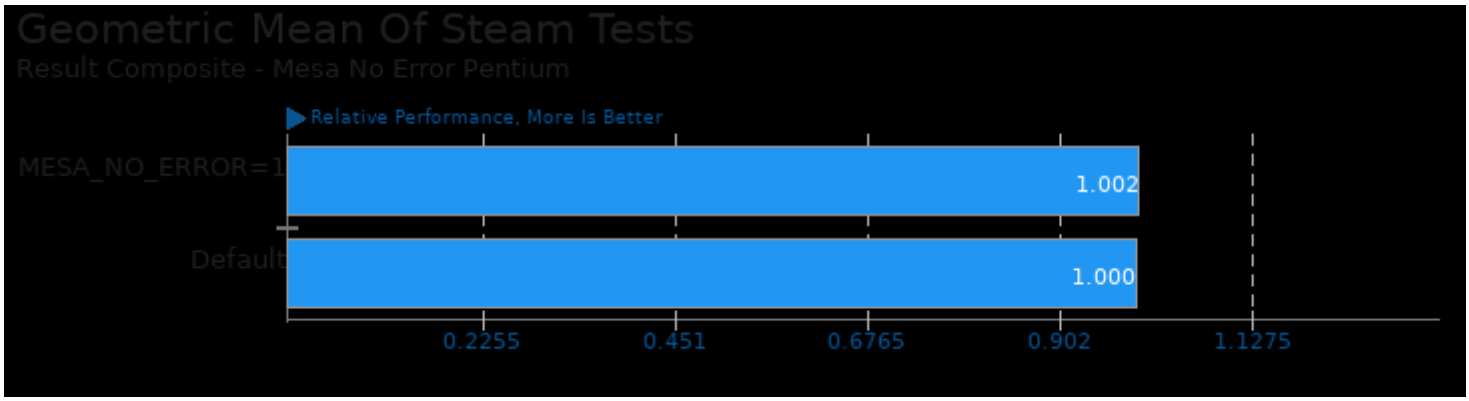


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These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/xonotic and pts/tesseract



Geometric mean based upon tests: pts/bioshock-infinite, pts/civilization-vi, pts/dota2, pts/metro2033-redux, pts/metroll-redux, pts/portal, pts/tf2 and pts/tomb-raider

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