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Dirty Radeon Mesa Regression

Benchmarks for a future article.

Automated Executive Summary

Mesa 13: R9 Fury had the most wins, coming in first place for 87% of the tests.

Based on the geometric mean of all complete results, the fastest (Mesa 13: R9 Fury) was 2.357x the speed of the slowest (Mesa Git: RX 480). Mesa 13: RX 480 was 1.555x the speed of Mesa 13: R9 285, Mesa 13: R9 Fury was 1.186x the speed of Mesa 13: RX 480, Mesa Git: R9 285 was 0.492x the speed of Mesa 13: R9 Fury, Mesa Git: RX 480 was 0.862x the speed of Mesa Git: R9 285, Mesa Git: R9 Fury was 1.139x the speed of Mesa Git: RX 480.

Test Systems:

Mesa 13: R9 285

Processor: Intel Core i7-7700K @ 4.50GHz (8 Cores), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: Samsung SSD 950 PRO 256GB, Graphics: XFX AMD Radeon R9 285/380

2048MB, Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.10, Kernel: 4.9.13-040913-generic (x86_64), Desktop: Unity 7.5.0, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 4.3 Mesa 13.0.4 Gallium 0.4 (LLVM 3.9.1), Vulkan: 1.0.3, Compiler: GCC 6.2.0 20161005, File-System: ext4, Screen Resolution: 3840x2160

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

Mesa 13: RX 480

Processor: Intel Core i7-7700K @ 4.50GHz (8 Cores), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: Samsung SSD 950 PRO 256GB, Graphics: AMD Radeon RX 470/480 8192MB, Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.10, Kernel: 4.9.13-040913-generic (x86_64), Desktop: Unity 7.5.0, Display Server: X Server 1.18.4, Display Driver: amdgpu 1.1.2, OpenGL: 4.3 Mesa 13.0.4 Gallium 0.4 (LLVM 3.9.1), Vulkan: 1.0.3, Compiler: GCC 6.2.0 20161005, File-System: ext4, Screen Resolution: 3840x2160

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

Mesa 13: R9 Fury

Processor: Intel Core i7-7700K @ 4.50GHz (8 Cores), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: Samsung SSD 950 PRO 256GB, Graphics: Sapphire AMD Radeon R9 FURY / NANO 4096MB, Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Realtek RTL8111/8168/8411

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

Mesa Git: R9 285

Processor: Intel Core i7-7700K @ 4.50GHz (8 Cores), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: Samsung SSD 950 PRO 256GB, Graphics: XFX AMD Radeon R9 285/380 2048MB, Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.10, Kernel: 4.10.1-041001-generic (x86_64), Desktop: Unity 7.5.0, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 4.5 Mesa 17.1.0-devel- padoka PPA Gallium 0.4 (LLVM 5.0.0), Vulkan: 1.0.3, Compiler: GCC 6.2.0 20161005, File-System: ext4, Screen Resolution: 3840x2160

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

Mesa Git: RX 480

Processor: Intel Core i7-7700K @ 4.50GHz (8 Cores), Motherboard: MSI Z270-A PRO (MS-7A71) v1.0, Chipset: Intel Device 591f, Memory: 16384MB, Disk: Samsung SSD 950 PRO 256GB, Graphics: AMD Radeon RX 470/480 8192MB, Audio: Realtek ALC892, Monitor: Acer B286HK, Network: Realtek RTL8111/8168/8411

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

Mesa Git: R9 Fury

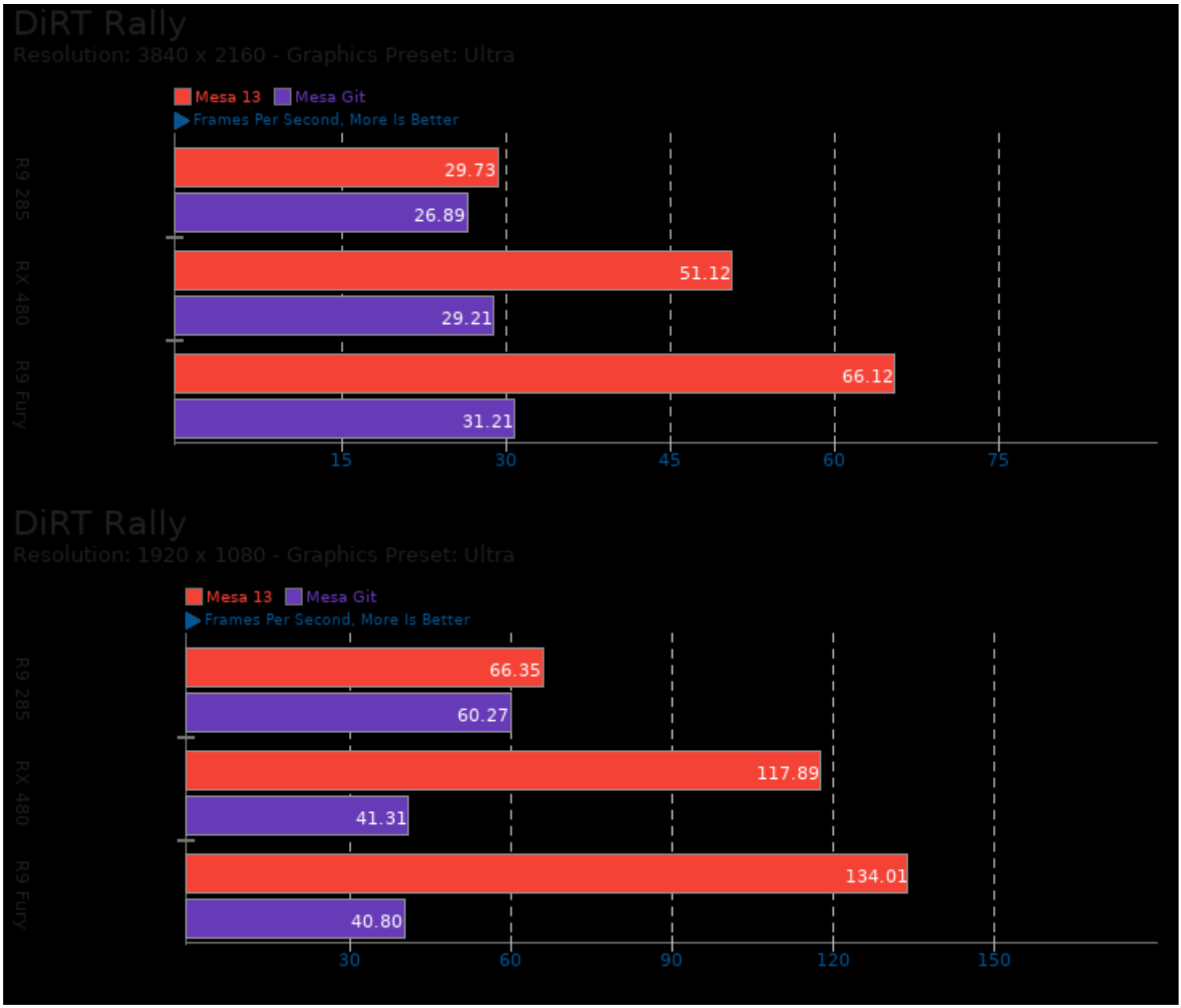
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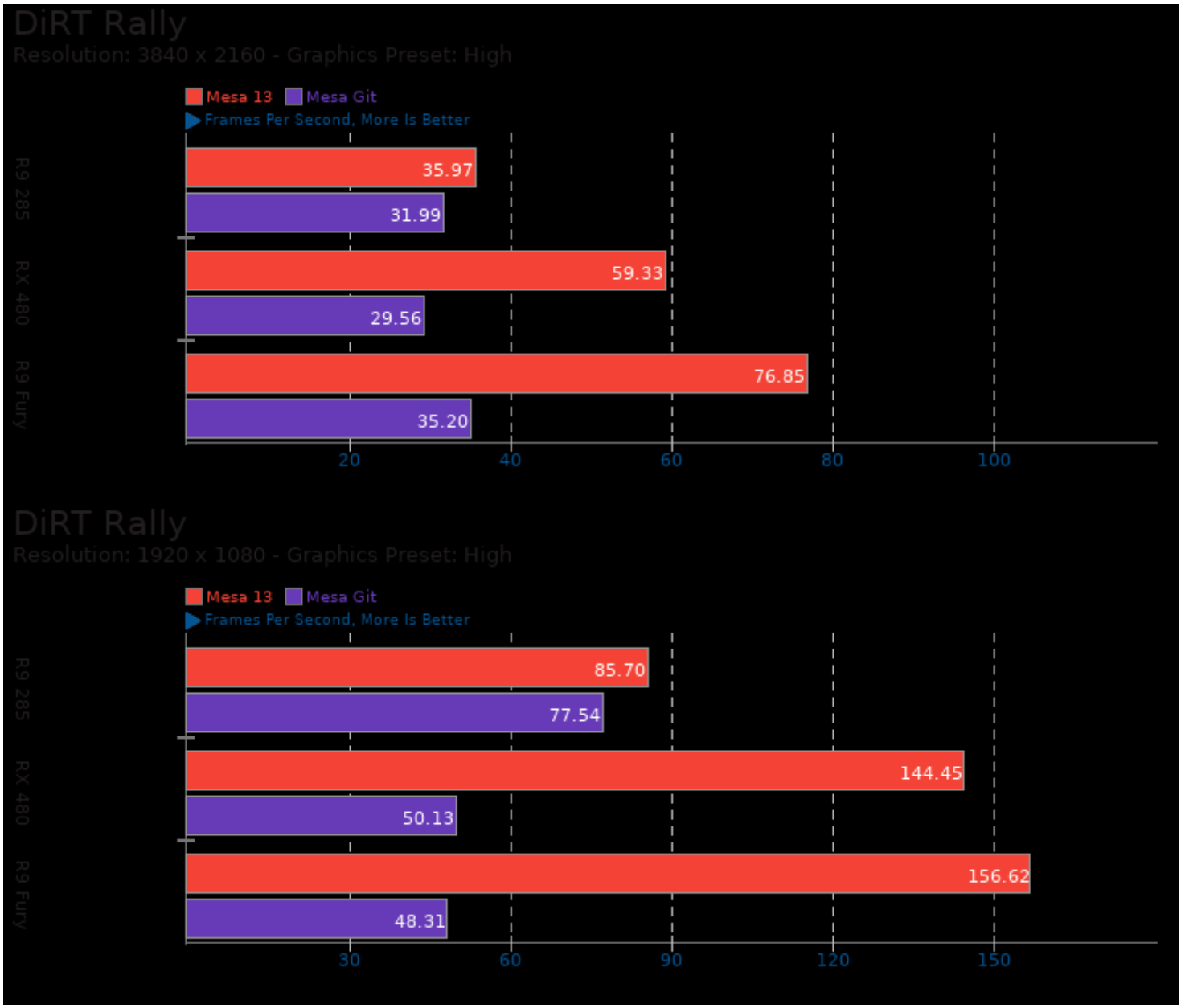
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Graphics Notes: GLAMOR

	Mesa 13: R9 285	Mesa 13: RX 480	Mesa 13: R9 Fury	Mesa Git: R9 285	Mesa Git: RX 480	Mesa Git: R9 Fury
DiRT Rally - 3840 x 2160 - Ultra (FPS)	29.73	51.12	**66.12**	**26.89**	29.21	31.21
Normalized	44.96%	77.31%	100%	40.67%	44.18%	47.2%
DiRT Rally - 1920 x 1080 - Ultra (FPS)	66.35	117.89	**134.01**	60.27	41.31	**40.80**
Normalized	49.51%	87.97%	100%	44.97%	30.83%	30.45%
DiRT Rally - 3840 x 2160 - High (FPS)	35.97	59.33	**76.85**	31.99	**29.56**	35.20
Normalized	46.81%	77.2%	100%	41.63%	38.46%	45.8%
DiRT Rally - 1920 x 1080 - High (FPS)	85.70	144.45	**156.62**	77.54	50.13	**48.31**
Normalized	54.72%	92.23%	100%	49.51%	32.01%	30.85%
DiRT Rally - 3840 x 2160 - Medium (FPS)	45.22	69.35	**88.73**	39.30	**37.66**	52.81
Normalized	50.96%	78.16%	100%	44.29%	42.44%	59.52%
DiRT Rally - 1920 x 1080 - Medium (FPS)	118.85	166.85	**171.27**	100.65	83.67	**53.47**
Normalized	69.39%	97.42%	100%	58.77%	48.85%	31.22%
DiRT Rally - 3840 x 2160 - Ultra Low (FPS)	**125.44**	183.82	**248.17**	129.67	136.80	195.44
Normalized	50.55%	74.07%	100%	52.25%	55.12%	78.75%
DiRT Rally - 1920 x 1080 - Ultra Low (FPS)	314.60	401.54	428.36	288.13	**234.56**	**428.41**
Normalized	73.43%	93.73%	99.99%	67.26%	54.75%	100%

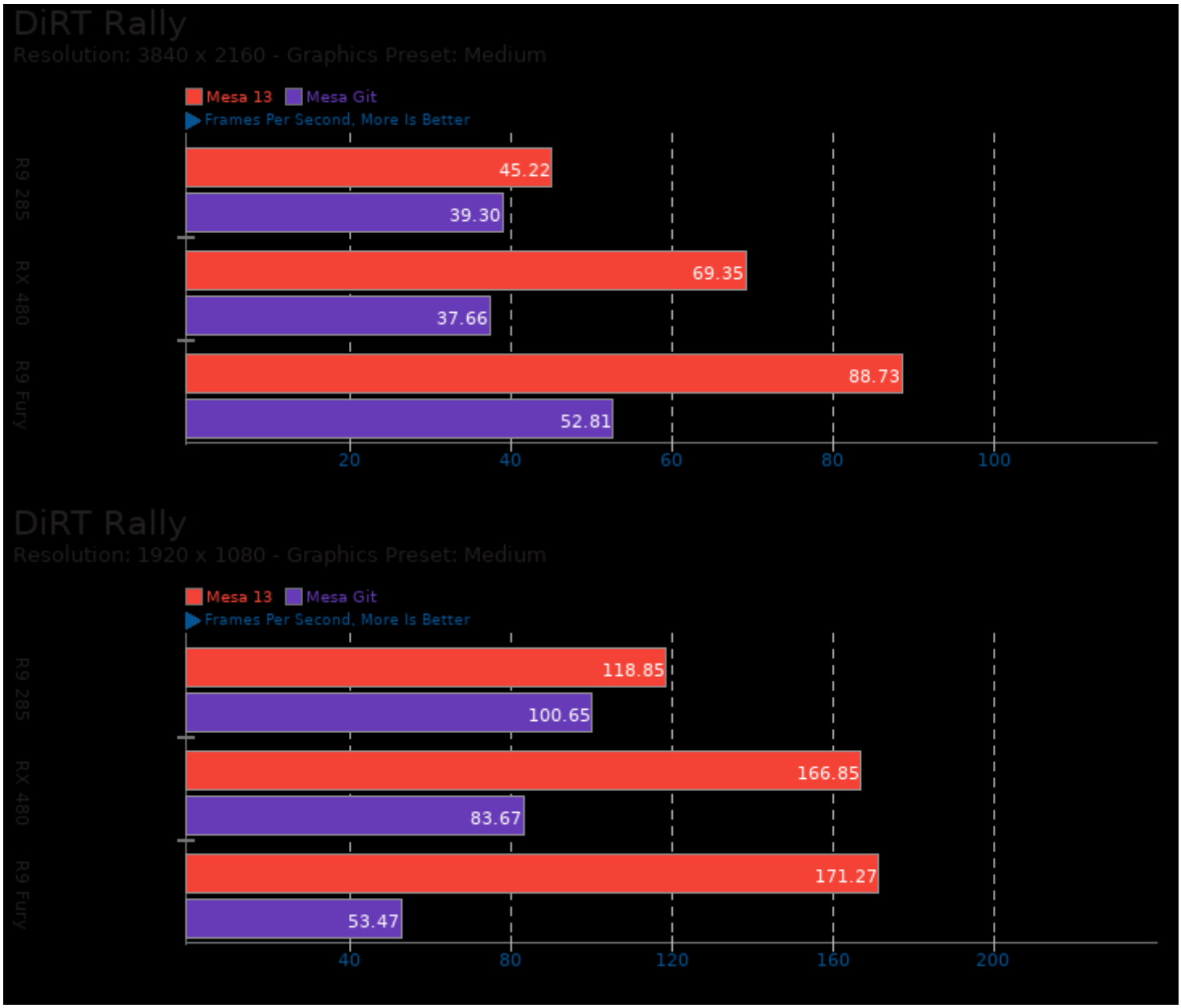
Dirty Radeon Mesa Regression



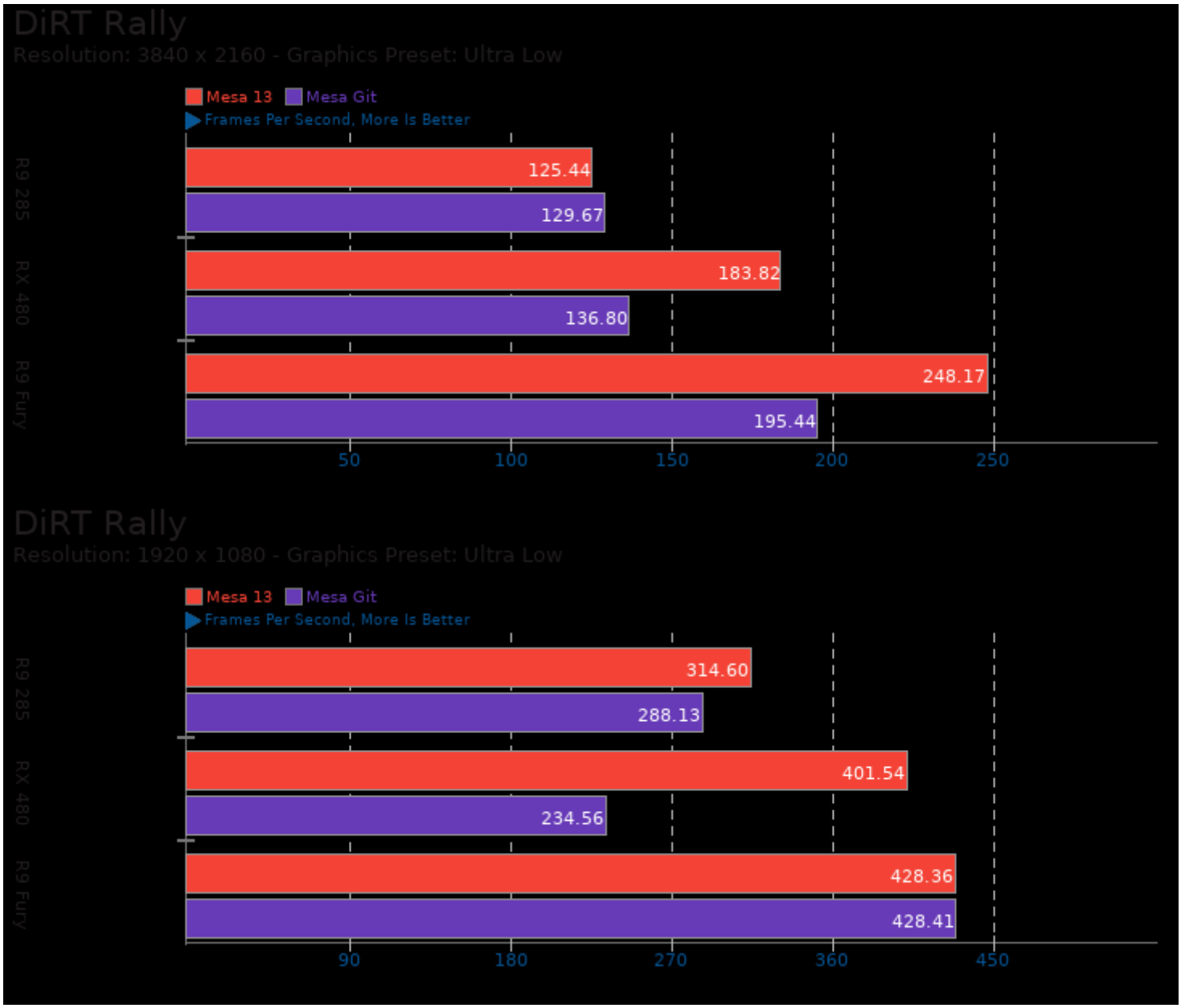
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