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Sapphire AMD Radeon R7 260X Linux GPU

Benchmarks for a future article on Phoronix.com reviewing the Sapphire Radeon R7 260X graphics card against other AMD Catalyst GPUs and NVIDIA GeForce hardware on Ubuntu Linux.

Test Systems:

A10-7850K Radeon R7

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: ASUS A88X-PRO, Chipset: AMD Device 1422, Memory: 7168MB, Disk: 64GB OCZ AGILITY, Graphics: KV SPECTRE DESKTOP 65W/100W (130F) 1024MB, Audio: ATI R6xx HDMI, Monitor: VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-5-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: fglrx 13.25.5, OpenGL: 4.3.12618, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

Radeon HD 6770

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: ASUS A88X-PRO, Chipset: AMD Device 1422, Memory: 8192MB, Disk: 64GB OCZ AGILITY, Graphics: Sapphire AMD Radeon HD 6700 1024MB, Audio: Realtek ALC1150, Monitor: VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-5-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: fglrx 13.25.5, OpenGL: 4.3.12618, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

Radeon HD 6870

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: ASUS A88X-PRO, Chipset: AMD Device 1422, Memory: 8192MB, Disk: 64GB OCZ AGILITY, Graphics: Sapphire AMD Radeon HD 6800 1024MB (900/1050MHz), Audio: Realtek ALC1150, Monitor: VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-5-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: fglrx 13.25.5, OpenGL: 4.3.12618, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

Radeon HD 6950

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: ASUS A88X-PRO, Chipset: AMD Device 1422, Memory: 8192MB, Disk: 64GB OCZ AGILITY, Graphics: Sapphire AMD Radeon HD 6900 2048MB (800/1250MHz), Audio: Realtek ALC1150, Monitor: VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-5-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: fglrx 13.25.5, OpenGL: 4.3.12618, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

Radeon HD 7850

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: ASUS A88X-PRO, Chipset: AMD Device 1422, Memory: 8192MB, Disk: 64GB OCZ AGILITY, Graphics: ASUS AMD Radeon HD 7800 1024MB, Audio: Realtek ALC1150, Monitor: VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-5-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: fglrx 13.25.5, OpenGL: 4.3.12618, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

Radeon R7 260X

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: ASUS A88X-PRO, Chipset: AMD Device 1422, Memory: 8192MB, Disk: 64GB OCZ AGILITY, Graphics: Sapphire AMD Radeon R7 200 2048MB, Audio: Realtek ALC1150, Monitor: VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-5-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: fglrx 13.25.5, OpenGL: 4.3.12618, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

Radeon R9 270X

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: ASUS A88X-PRO, Chipset: AMD Device 1422, Memory: 8192MB, Disk: 64GB OCZ AGILITY, Graphics: Gigabyte AMD Radeon R9 200 2048MB (1100/1400MHz), Audio: Realtek ALC1150, Monitor: VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-5-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: fglrx 13.25.5, OpenGL: 4.3.12618, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

GeForce GTX 550 Ti

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: ASUS A88X-PRO, Chipset: AMD Device 1422, Memory: 8192MB, Disk: 64GB OCZ AGILITY, Graphics: eVGA NVIDIA GeForce GTX 550 Ti 1024MB (951/2178MHz), Audio: Realtek ALC1150, Monitor: ViewSonic VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-5-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: nouveau 1.0.10, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

GeForce GT 610

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: ASUS A88X-PRO, Chipset: AMD Device 1422, Memory: 8192MB, Disk: 64GB OCZ AGILITY, Graphics: Zotac NVIDIA GeForce GT 610 1024MB (810/533MHz), Audio: Realtek ALC1150, Monitor: ViewSonic VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-5-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: nouveau 1.0.10, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

GeForce GTX 650

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: ASUS A88X-PRO, Chipset: AMD Device 1422, Memory: 8192MB, Disk: 64GB OCZ AGILITY, Graphics: MSI NVIDIA GeForce GTX 650 1024MB (1084/2500MHz), Audio: Realtek ALC1150, Monitor: ViewSonic VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-5-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: nouveau 1.0.10, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

GeForce GTX 760

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: ASUS A88X-PRO, Chipset: AMD Device 1422, Memory: 8192MB, Disk: 64GB OCZ AGILITY, Graphics: NVIDIA GeForce GTX 760 2048MB (540/3004MHz), Audio: Realtek ALC1150, Monitor: ViewSonic VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-5-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: nouveau 1.0.10, OpenGL: 4.3.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

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Processor: AMD Athlon II X2 270 @ 3.99GHz (2 Cores), Motherboard: MSI 760GA-P43(FX) (MS-7699) v1.0, Chipset: AMD RS780 + SB7x0/SB8x0/SB9x0, Memory: 4096MB, Disk: 80GB Western Digital WD800JB-00CR + 1000GB Western Digital WD10EARS-22Y + 1000GB Seagate ST1000DM003-1ER1 + 250GB Seagate ST3250823A + 250GB Western Digital WD2500AAJB-5, Graphics: Sapphire AMD Radeon R7 200 2048MB, Audio: AMD SBx00 Azalia, Monitor: 19W_LCD_TV + 19W_LCD_TV, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.10, Kernel: 3.16.0-25-generic (x86_64), Desktop: Unity 7.3.1, Display Server: X Server 1.16.0, Display Driver: fglrx 14.50.2, OpenGL: 4.4.13283, Compiler: GCC 4.9.1, File-System: ext4, Screen Resolution: 1920x1080

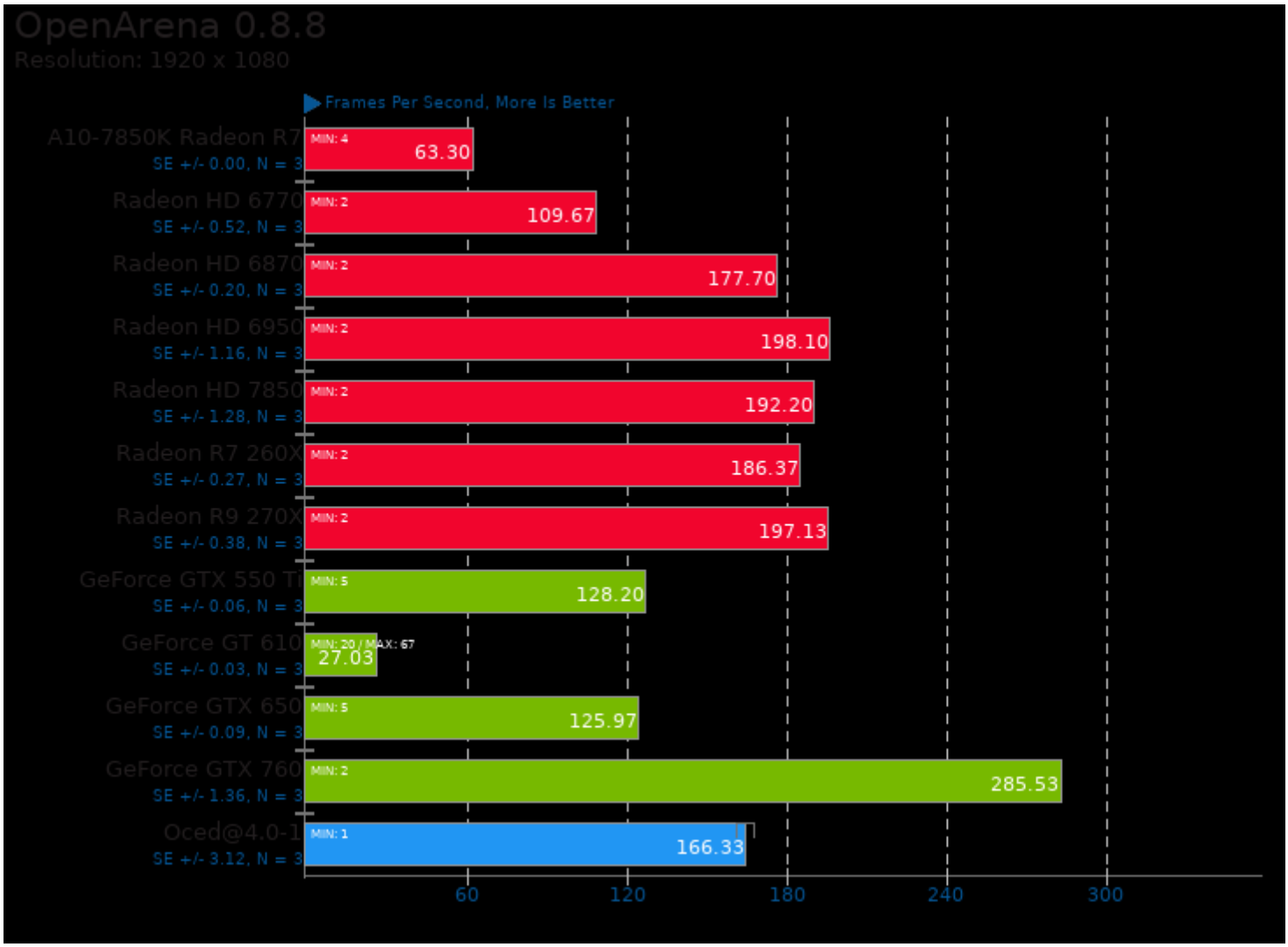
Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri

	A10-7850K Radeon R7	Radeon HD 6770	Radeon HD 6870	Radeon HD 6950	Radeon HD 7850	Radeon R7 260X	Radeon R9 270X	GeForce GTX 550 Ti	GeForce GT 610	GeForce GTX 650	GeForce GTX 760	Oced@4.0-1
OpenArena - 1920 x 1080 (FPS)	63.30	109.67	177.70	198.10	192.20	186.37	197.13	128.20	**27.03**	125.97	**285.53**	166.33
Normalized	22.17%	38.41%	62.24%	69.38%	67.31%	65.27%	69.04%	44.9%	9.47%	44.12%	100%	58.25%
Standard Deviation	0%	0.8%	0.2%	1%	1.2%	0.3%	0.3%	0.1%	0.2%	0.1%	0.8%	3.2%
Prey - 1920 x 1080 (FPS)	76.83	127.67	153.83	154.47	144.30	143.07	143.57	139.43	**25.70**	127.43	**214.63**	
Normalized	35.8%	59.48%	71.67%	71.97%	67.23%	66.66%	66.89%	64.96%	11.97%	59.37%	100%	
Standard Deviation	0.7%	0.2%	0.1%	0.8%	0.7%	0.4%	0.3%	0.4%	0%	0.2%	0.8%	
Reaction Quake 3 - 1920 x 1080 (FPS)	197.67	342.47	474.53	487	423.40	366.30	433.10	309.73	**54.80**	324.17	**584.13**	311.23
Normalized	33.84%	58.63%	81.24%	83.37%	72.48%	62.71%	74.14%	53.02%	9.38%	55.5%	100%	53.28%
Standard Deviation	0%	0.9%	0.6%	0.3%	0.3%	1.2%	1.2%	0.7%	0.2%	1.4%	2.6%	0.3%
Unigine Heaven - 1400 x 1050 (FPS)	11.75	16.10			32.40	31.30	47.27	23.07	**3.72**	24.95	**62.75**	28.60
Normalized	18.73%	25.66%			51.63%	49.88%	75.33%	36.76%	5.93%	39.76%	100%	45.58%
Standard Deviation	0%	0.1%			1.1%	0%	0%	0.5%	0.3%	0%	0.6%	0.6%
Unigine Sanctuary - 1920 x 1080 (FPS)	33.66	54.64	77.41	94.50	88.76	88.09	119.30	63.97	**11.30**	66.08	**184.28**	96.67
Normalized	18.27%	29.65%	42.01%	51.28%	48.17%	47.8%	64.74%	34.71%	6.13%	35.86%	100%	52.46%
Standard Deviation	0.1%	0.1%	0%	0.5%	0.2%	0.1%	0.5%	0.1%	0%	0.2%	0.2%	0.1%
Unigine Tropics - 1920 x 1080 (FPS)	30.00	51.86		85.45	81.27	74.31	95.65	57.12	**9.42**	56.09	**149.08**	74.39
Normalized	20.12%	34.79%		57.32%	54.51%	49.85%	64.16%	38.31%	6.32%	37.62%	100%	49.9%
Standard Deviation	0%	0.3%		0.4%	0.6%	0.1%	0.4%	0.1%	0.1%	0%	0.2%	0.2%

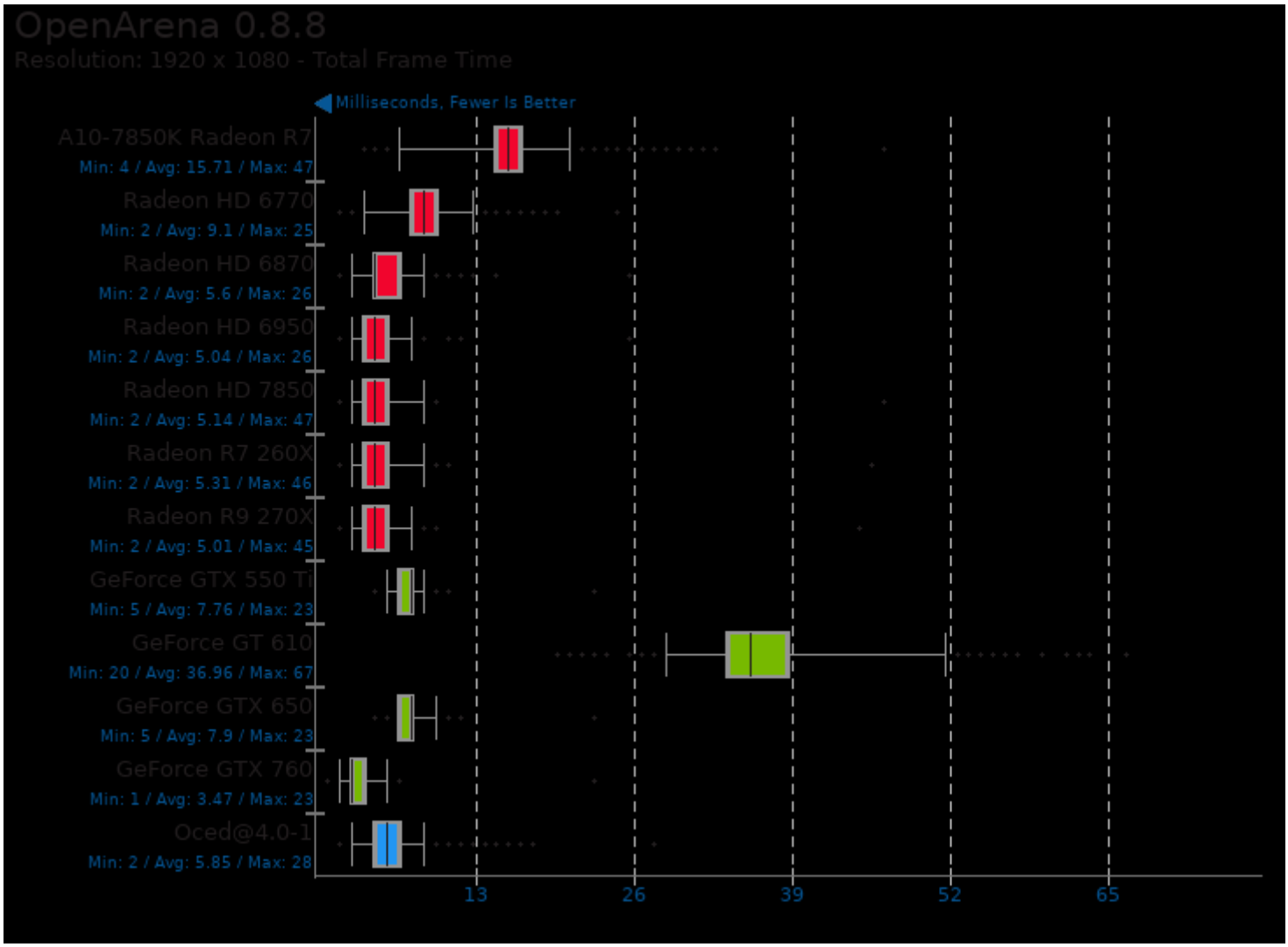
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Unigine Valley - 1920 x 1080 (FPS)	9.58	17.54	28.39	33.20	24.54	28.39	40.88	18.38	**3.49**	19.54	**52.32**	25.01
Normalized	18.31%	33.52%	54.26%	63.46%	46.9%	54.26%	78.13%	35.13%	6.67%	37.35%	100%	47.8%
Standard Deviation	0.1%	0.2%	0.1%	0.3%	0.5%	0.3%	0.1%	0.1%	0.1%	0.2%	0.4%	0.3%
Unvanquished - 1920 x 1080 (FPS)	55.20	54.73	63.20	146.13	84.13	130.20	155.43	119.70	**20.70**	121.27	**201.93**	108.03
Normalized	27.34%	27.1%	31.3%	72.37%	41.66%	64.48%	76.97%	59.28%	10.25%	60.06%	100%	53.5%
Standard Deviation	0.4%	0.2%	0.2%	0.1%	0.2%	0.1%	0.8%	0.4%	0%	0.6%	0.6%	0.6%
Xonotic - 1920 x 1080 - High	100.55	125.00	127.17	127.70	124.69	122.39	125.43	184.40	**37.56**	178.32	**199.26**	132.36
Normalized	50.46%	62.73%	63.82%	64.09%	62.58%	61.42%	62.95%	92.54%	18.85%	89.49%	100%	66.43%
Standard Deviation	0.1%	0.4%	0.3%	0.3%	0.1%	0.6%	0.1%	0.2%	0%	0.2%	1.3%	0.6%
Xonotic - 1920 x 1080 - Ultra	86.60	108.35	114.95	115.69	111.45	110.31	111.95	142.80	**27.77**	142.94	**181.69**	114.02
Normalized	47.66%	59.63%	63.27%	63.67%	61.34%	60.71%	61.62%	78.6%	15.28%	78.67%	100%	62.76%
Standard Deviation	0.3%	0.4%	0.2%	0.1%	0.3%	0.2%	0.3%	0.4%	0%	0.5%	2%	0.5%
Xonotic - 1920 x 1080 - Ultimate (FPS)	62.30	79.68	89.59	92.04	95.75	87.39	88.75	94.90	**19.46**	97.16	**139.04**	84.19
Normalized	44.81%	57.31%	64.43%	66.2%	68.87%	62.85%	63.83%	68.25%	14%	69.88%	100%	60.55%
Standard Deviation	0.3%	0.2%	0.3%	0.8%	20.7%	0.1%	0.9%	0.5%	0%	0.2%	0.1%	0.7%

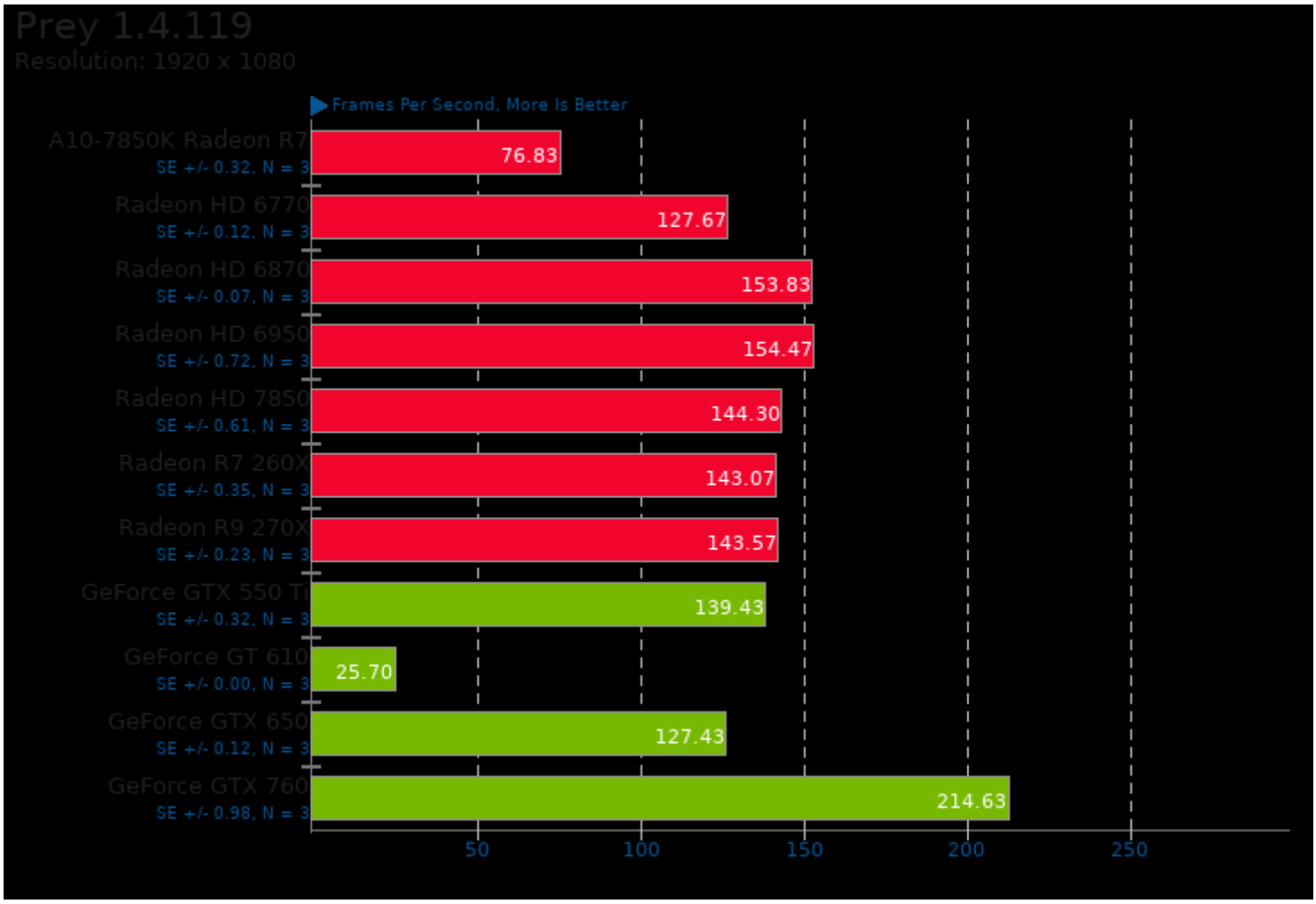
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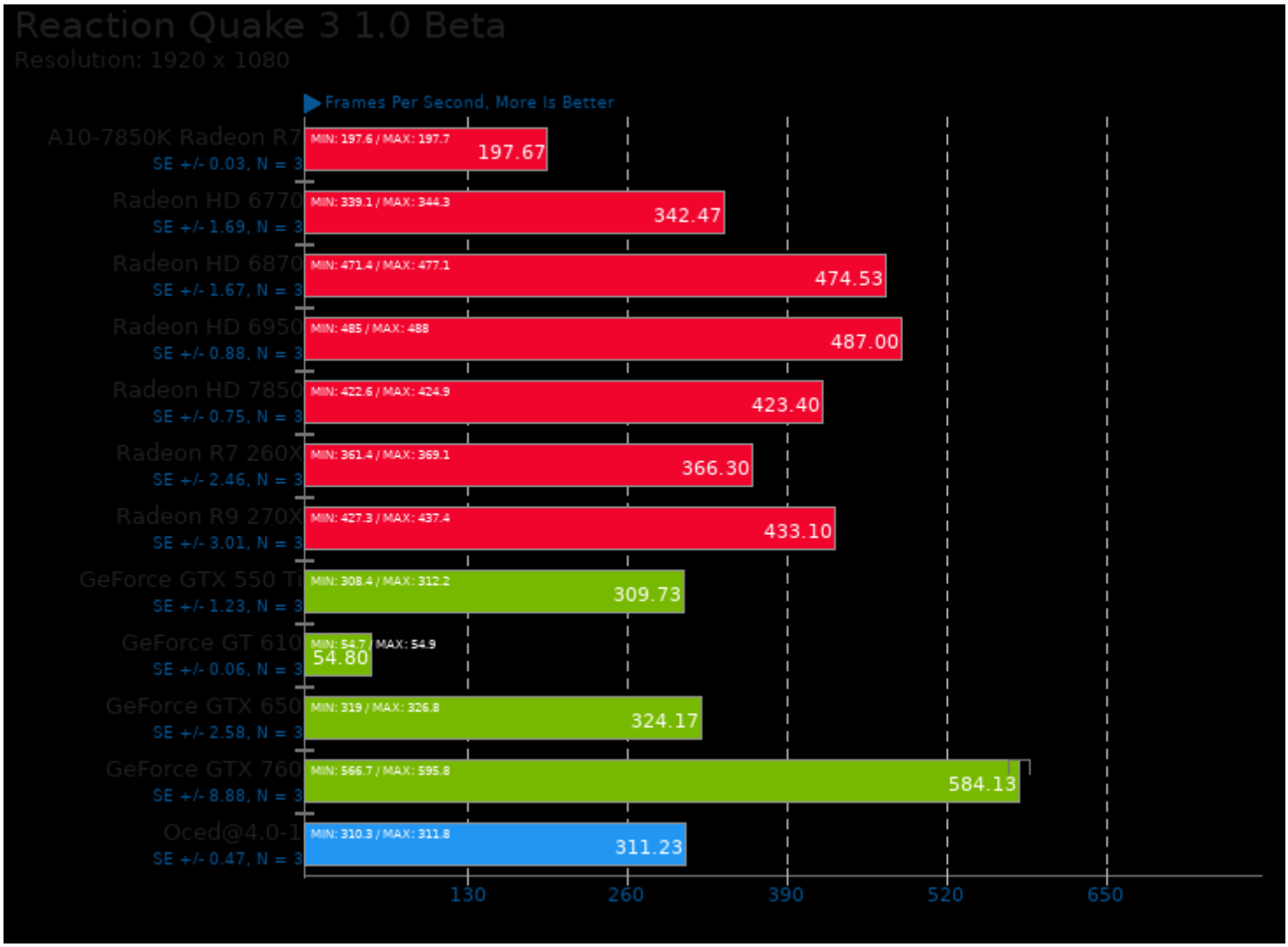
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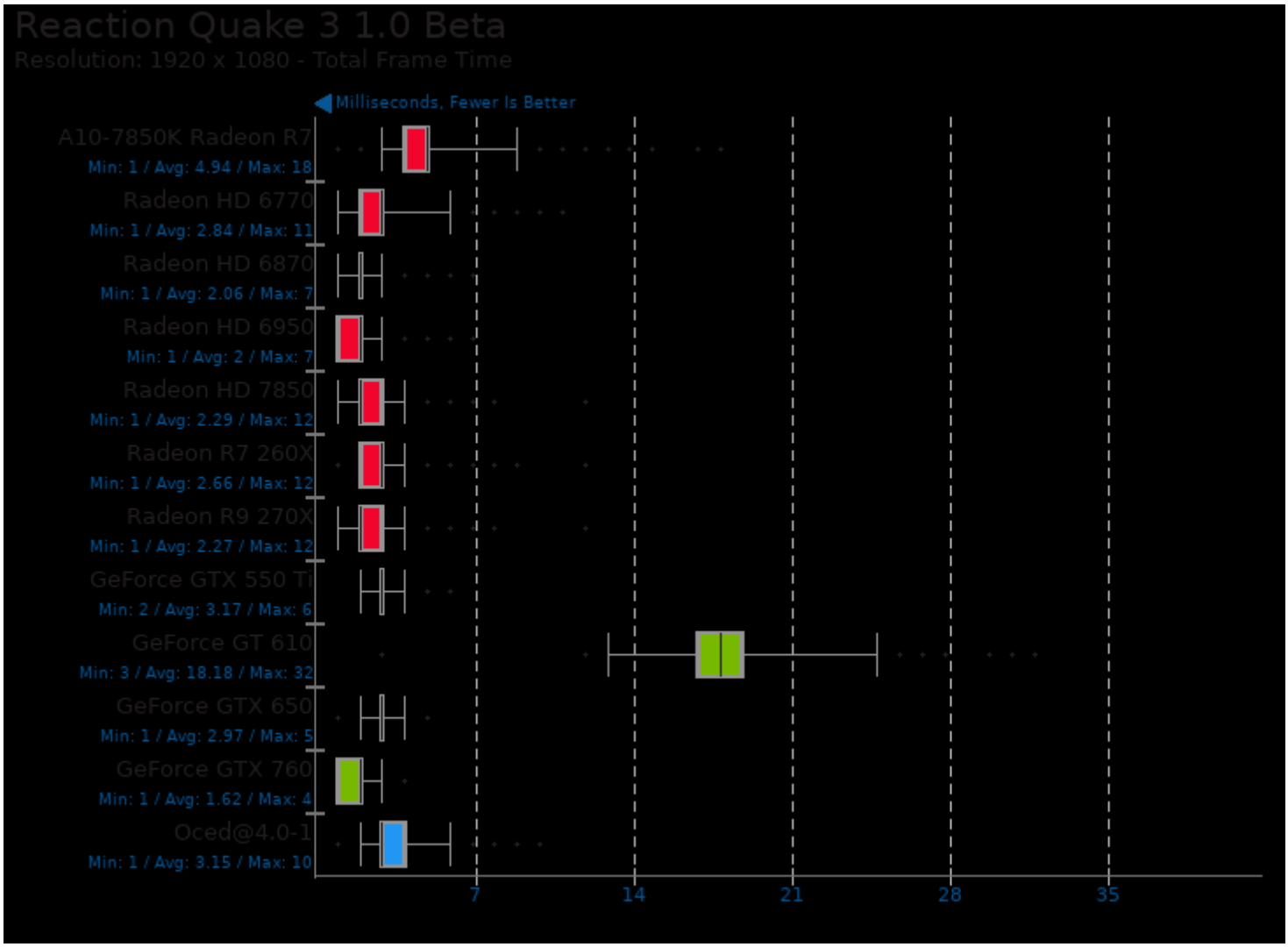
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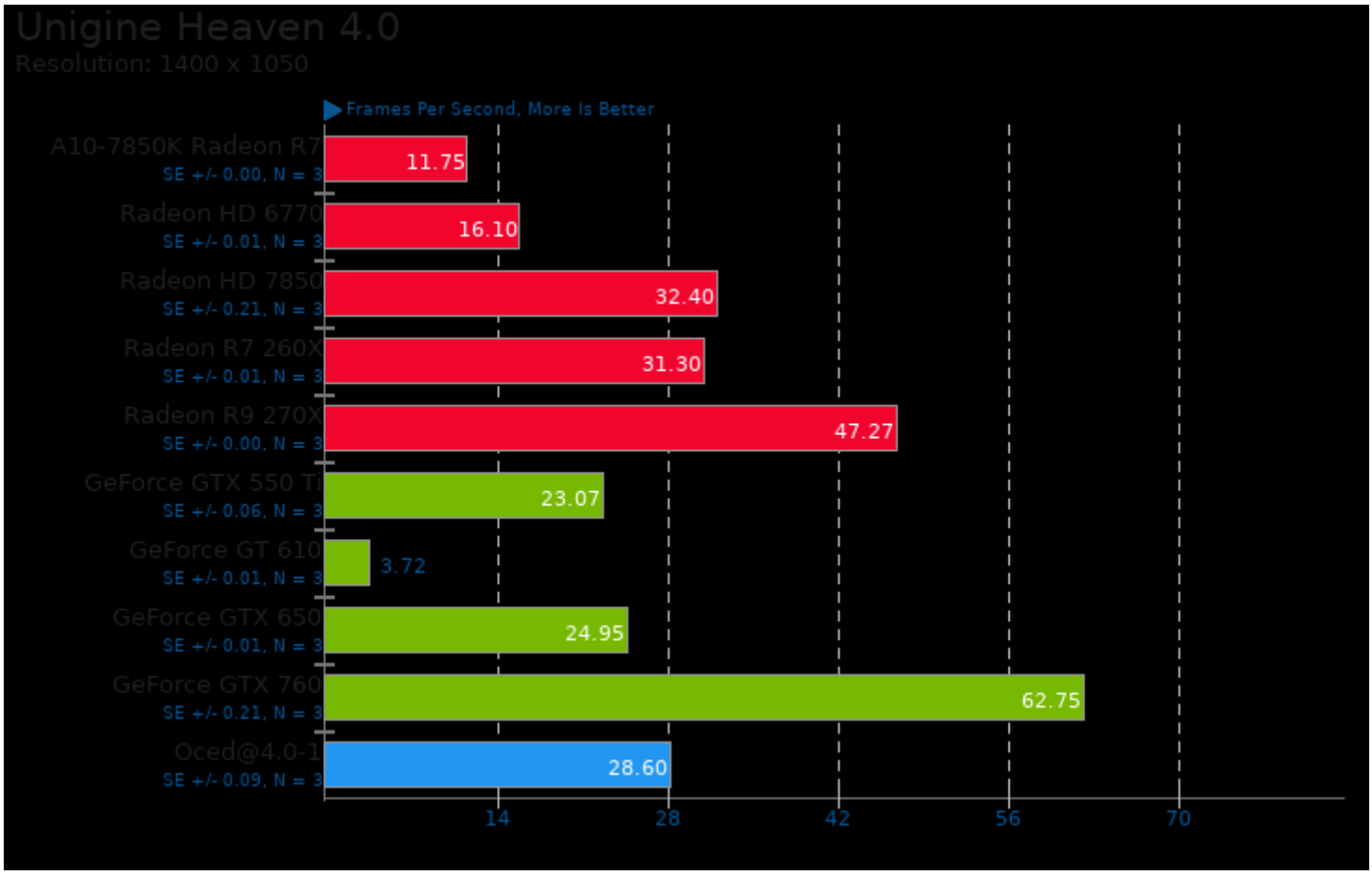
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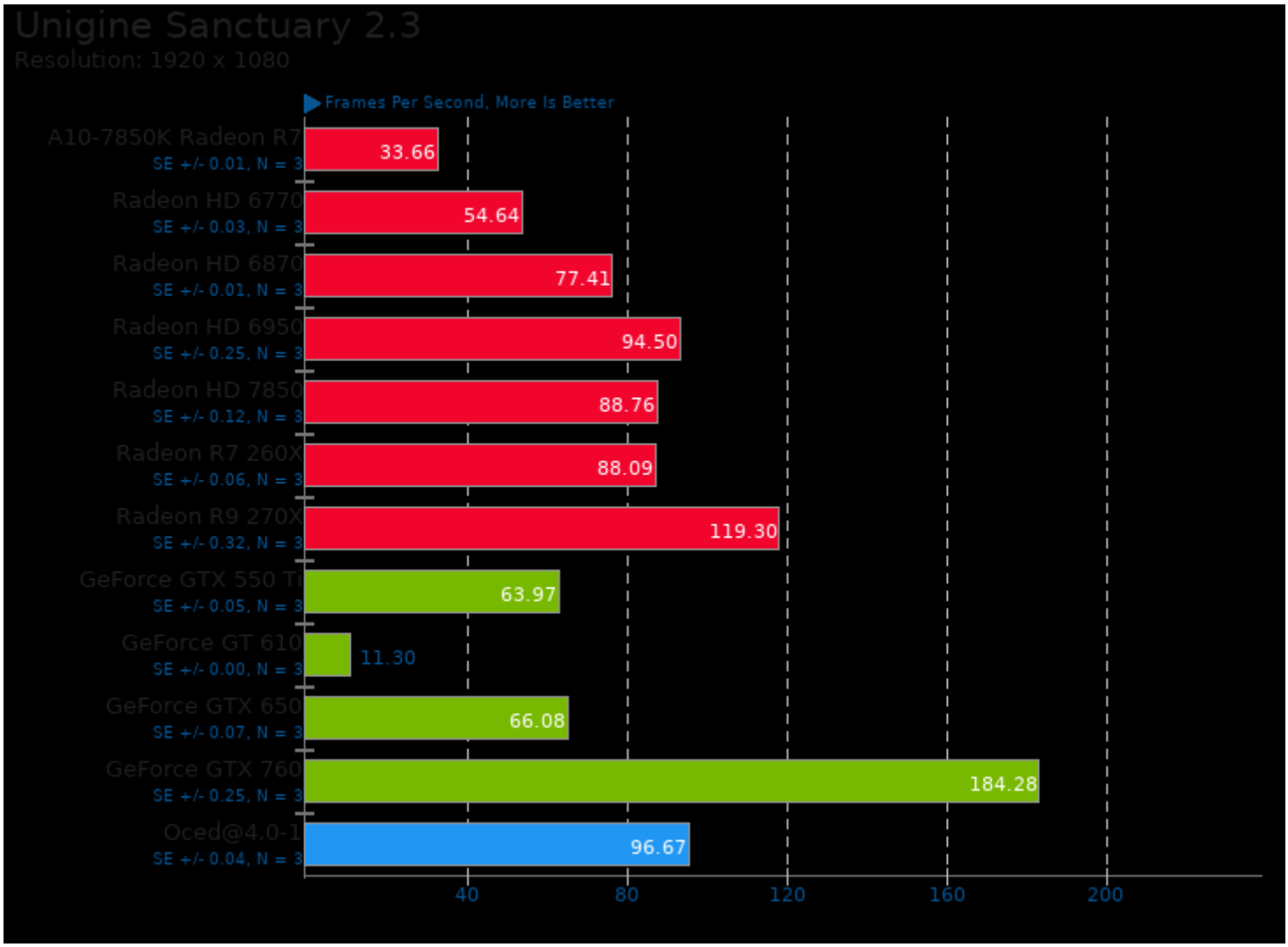
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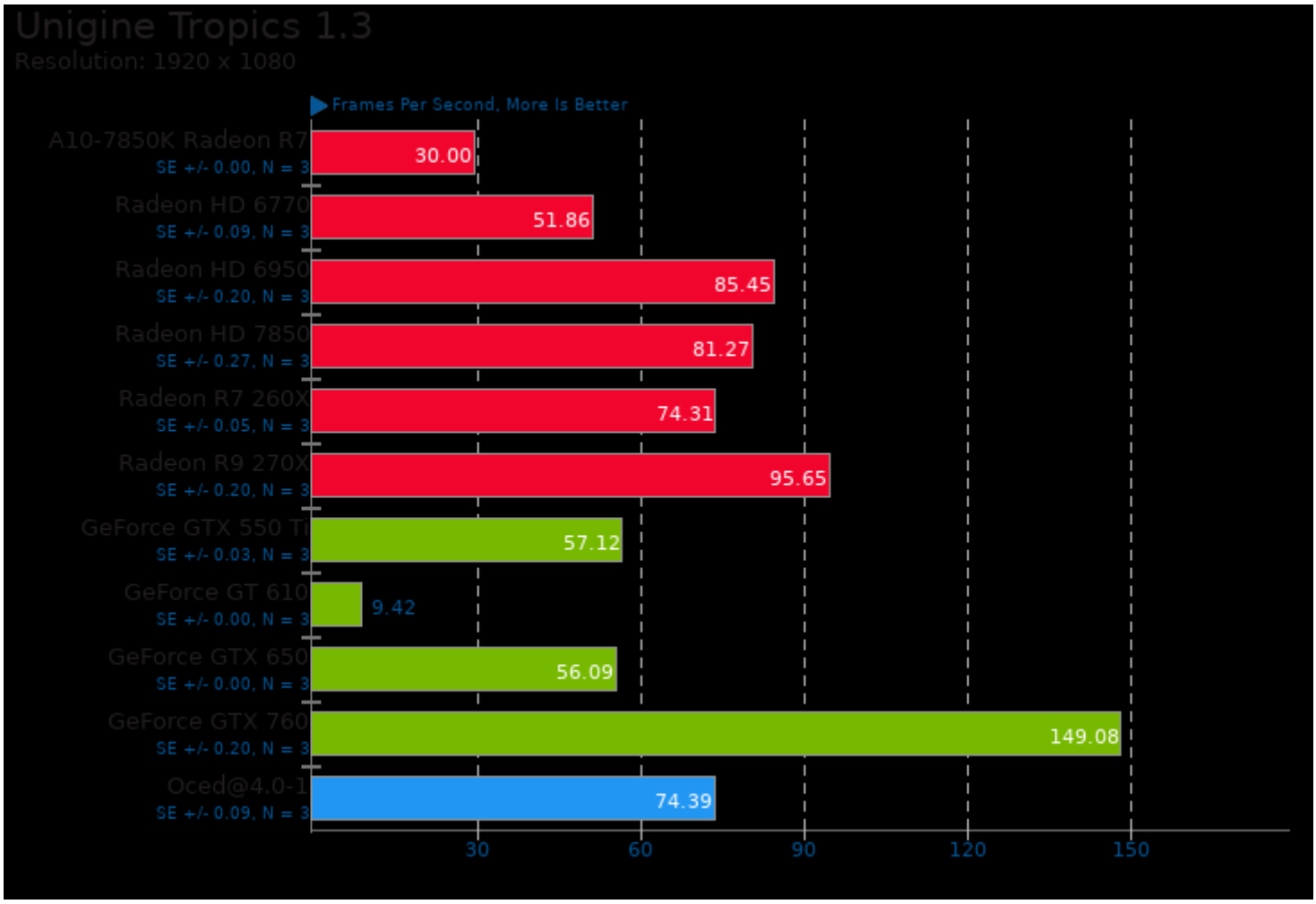
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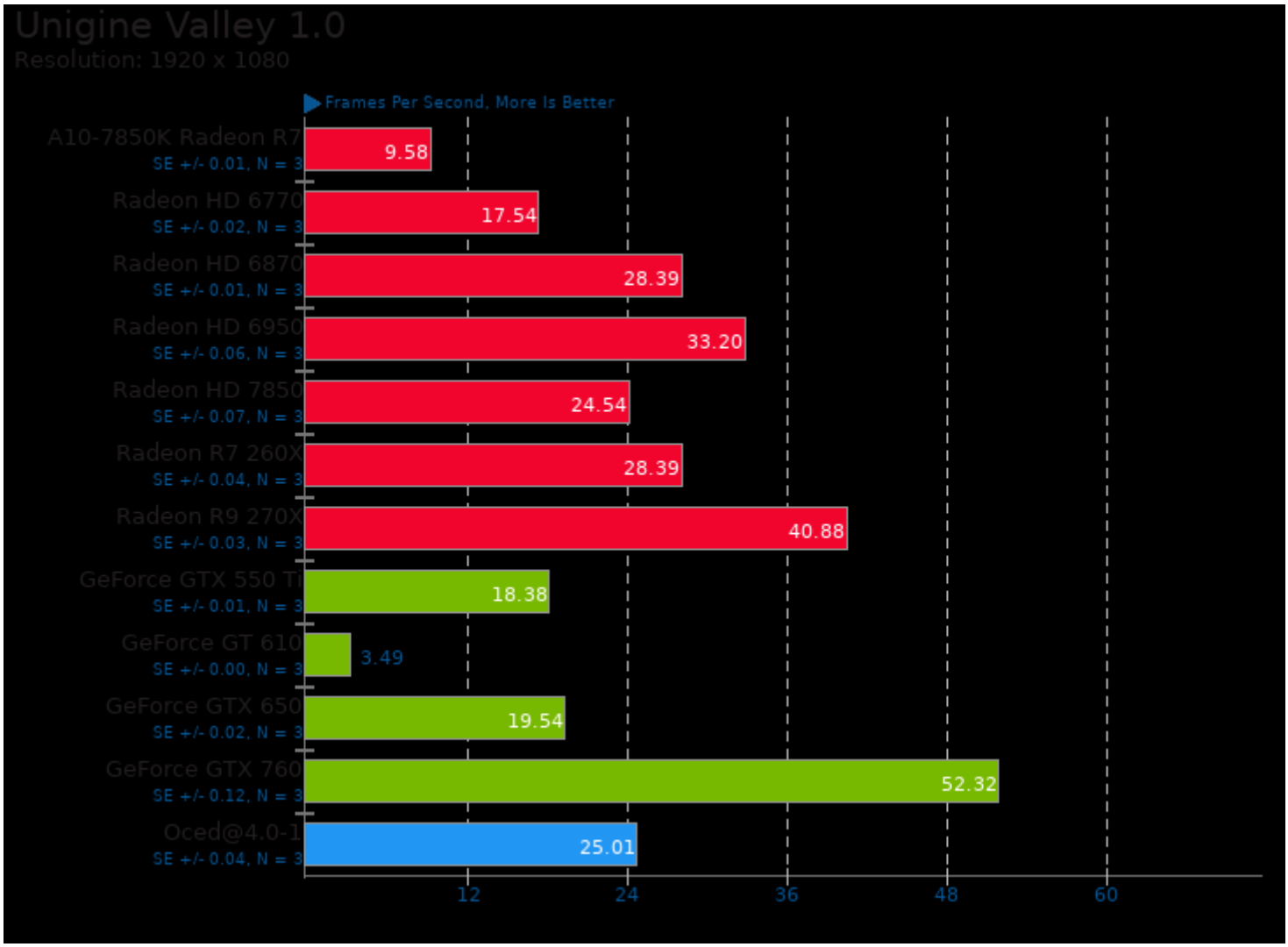
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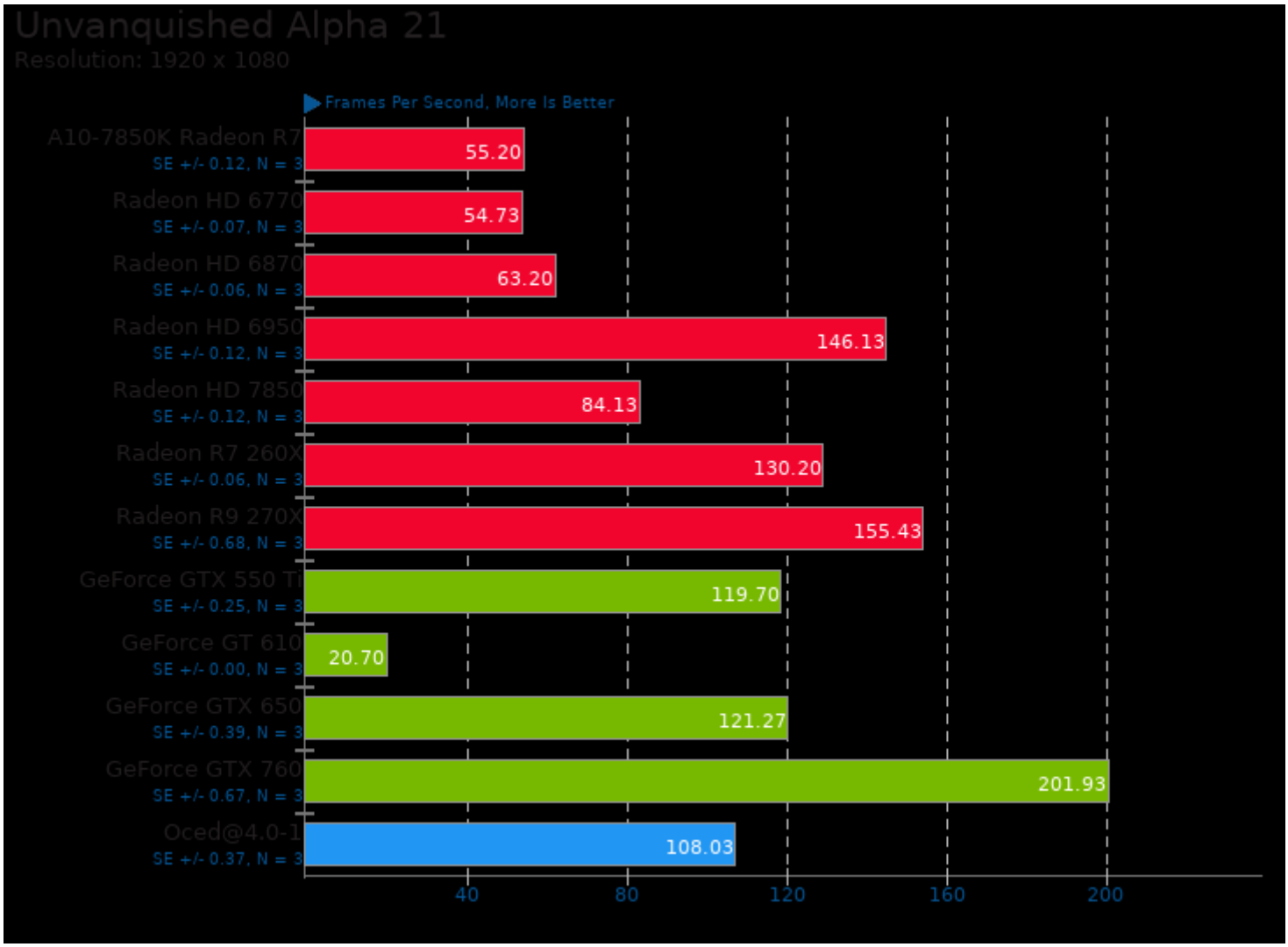
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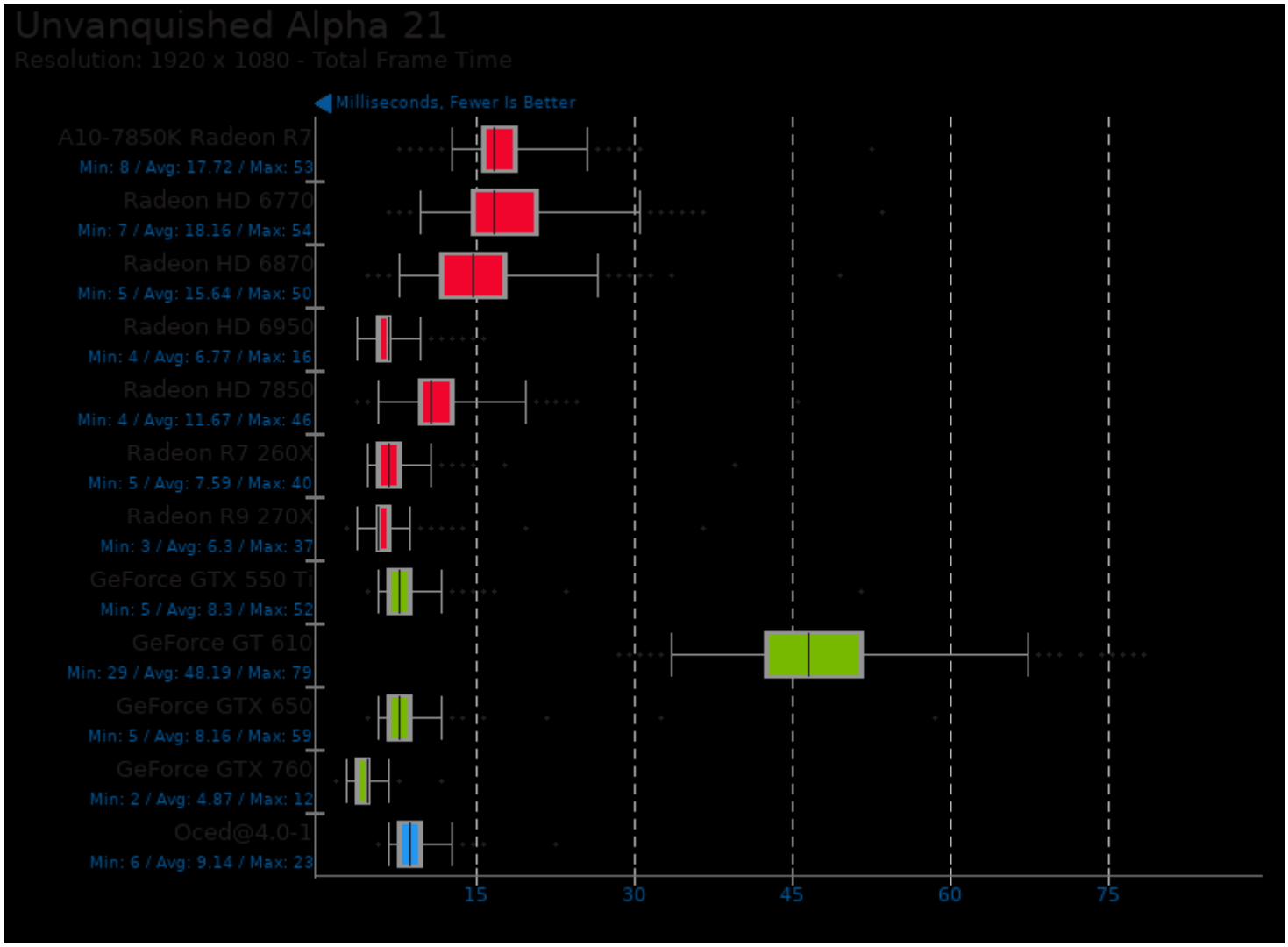
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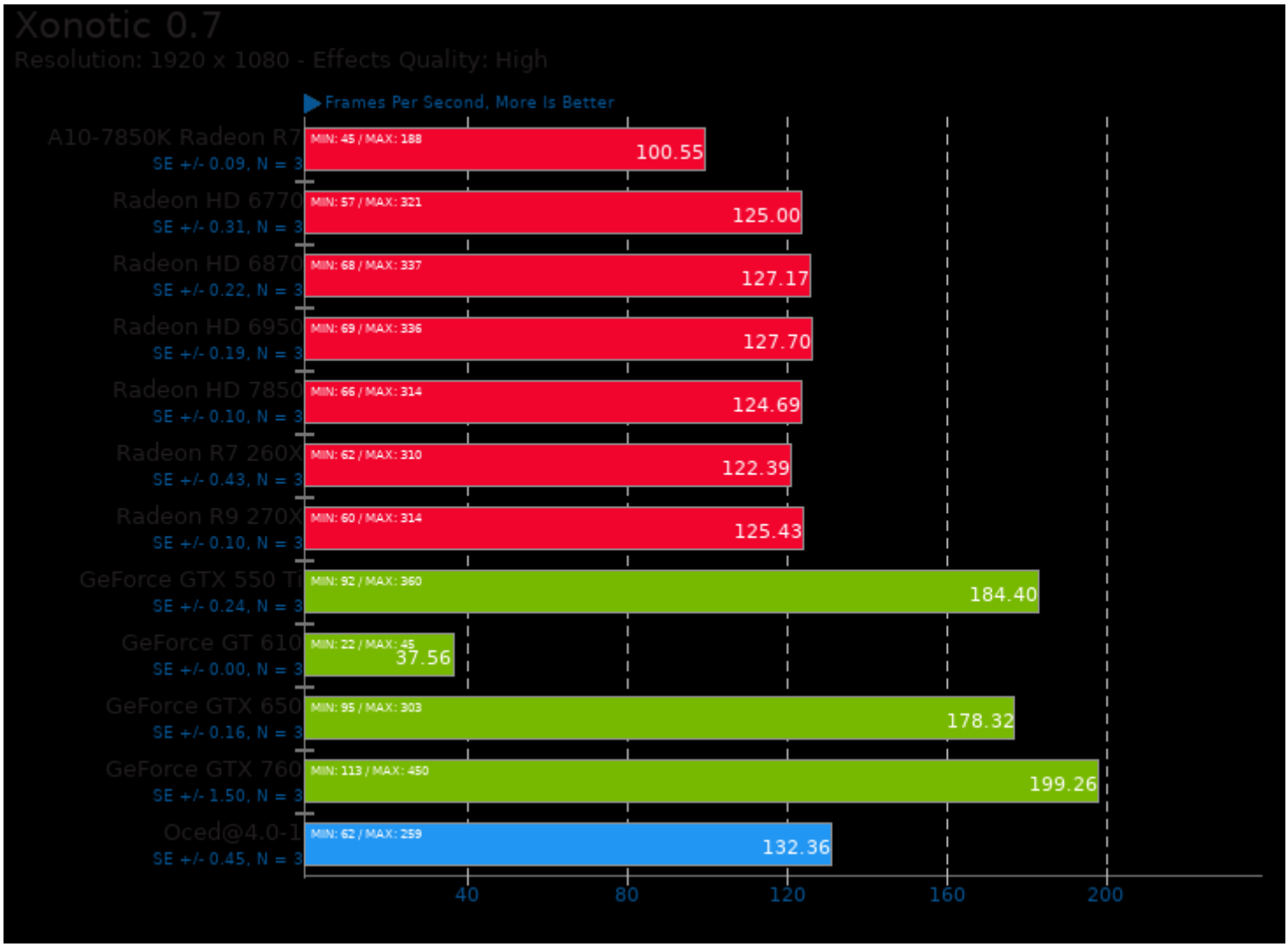
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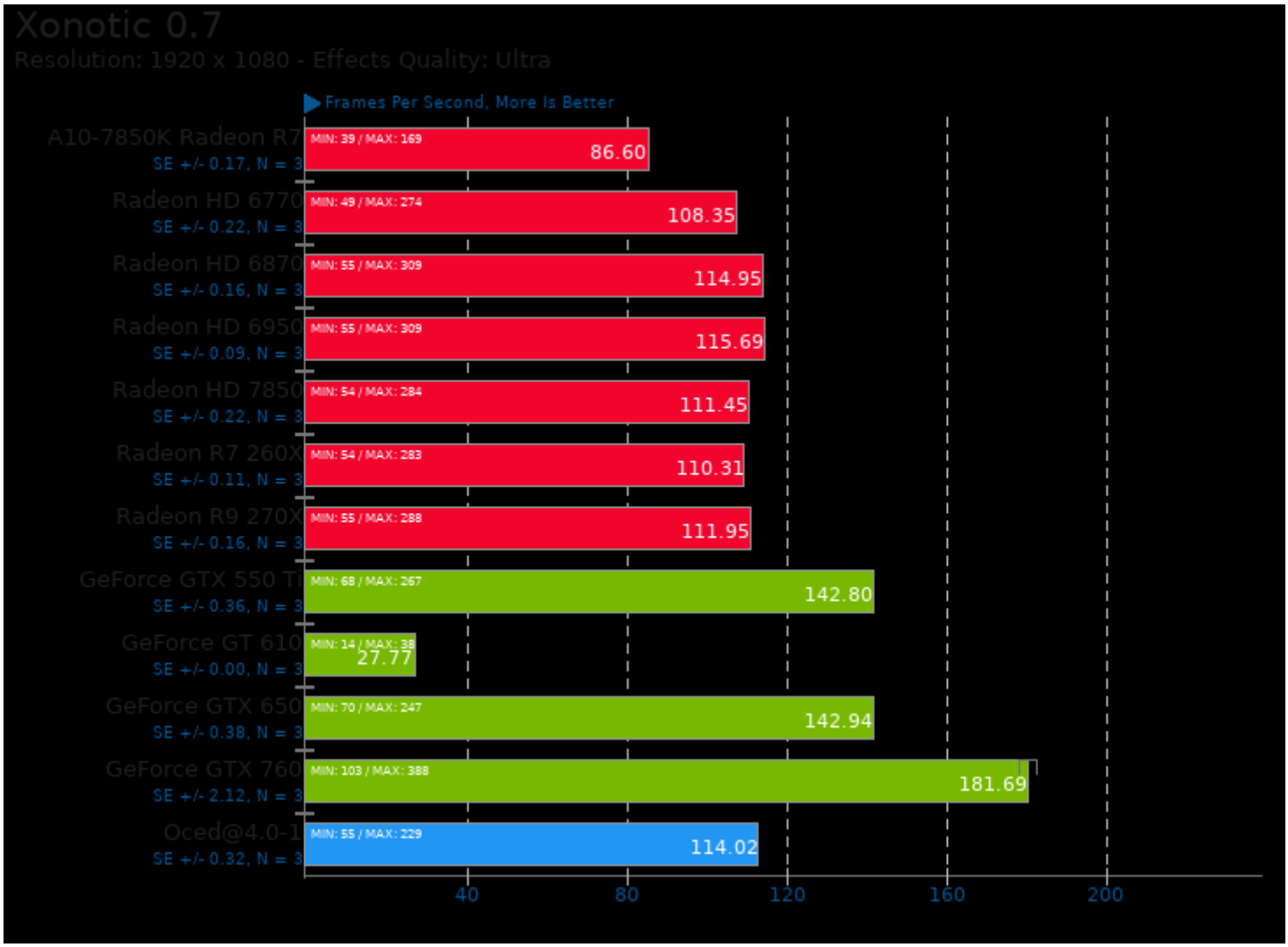
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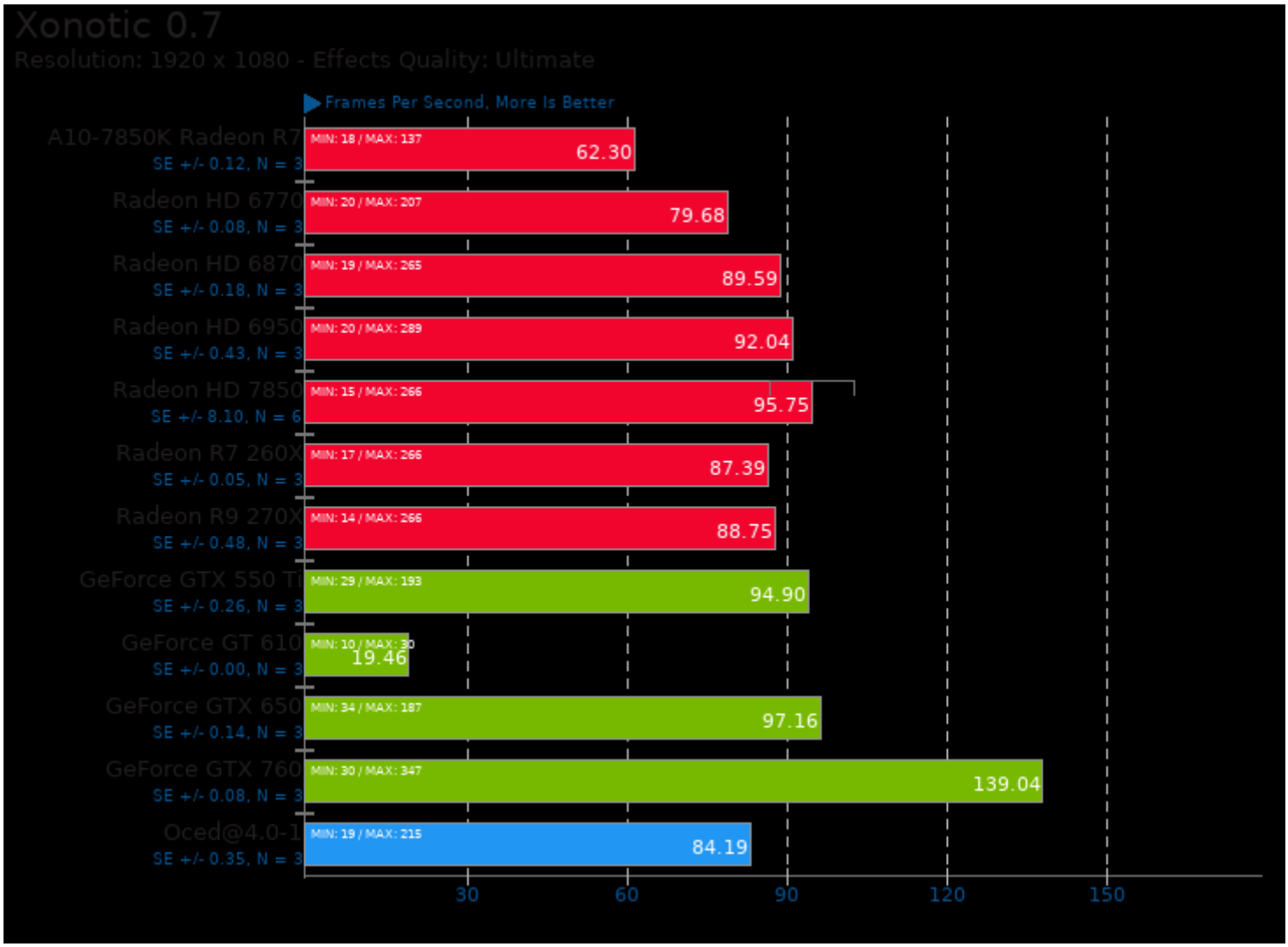
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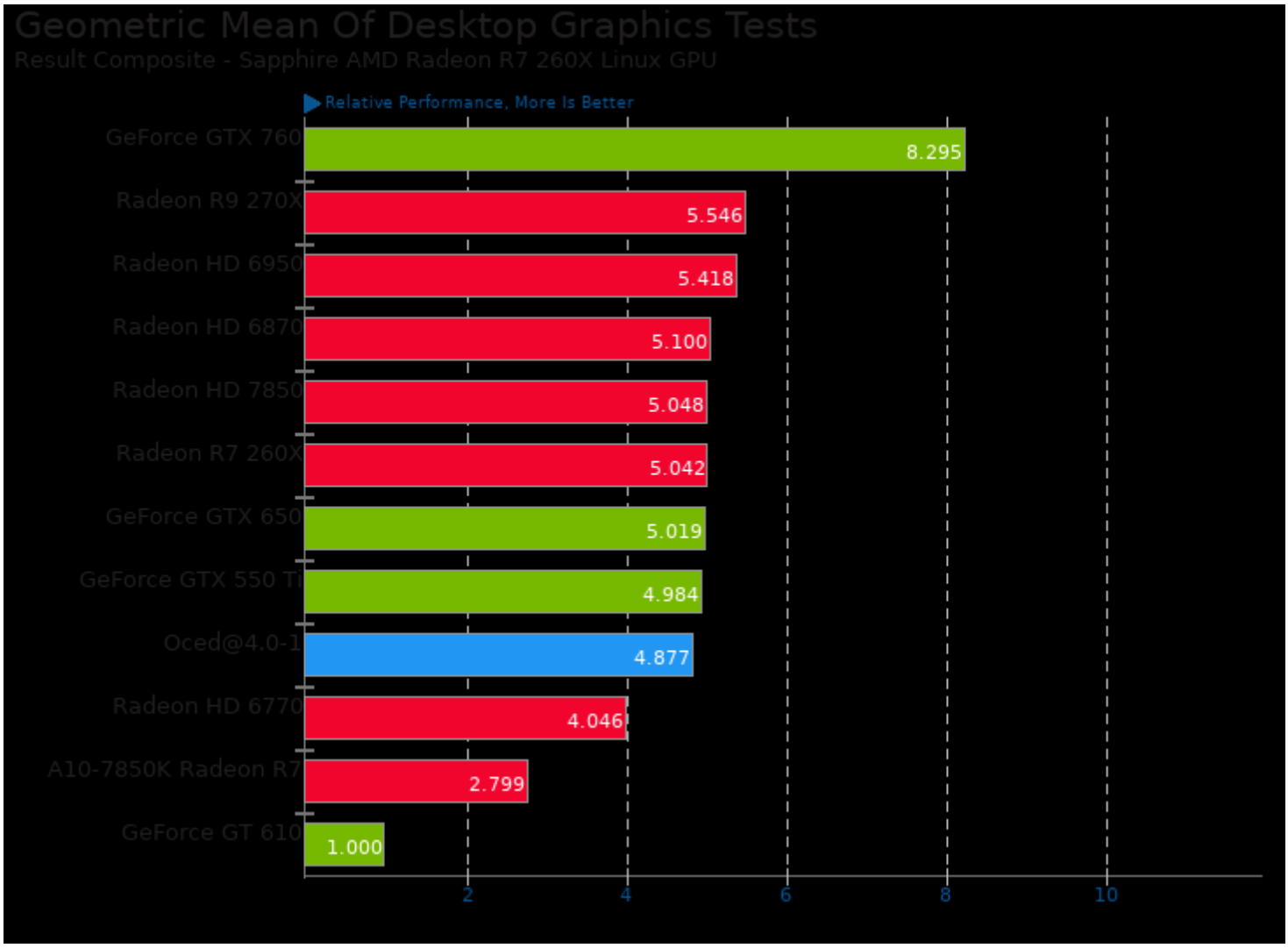
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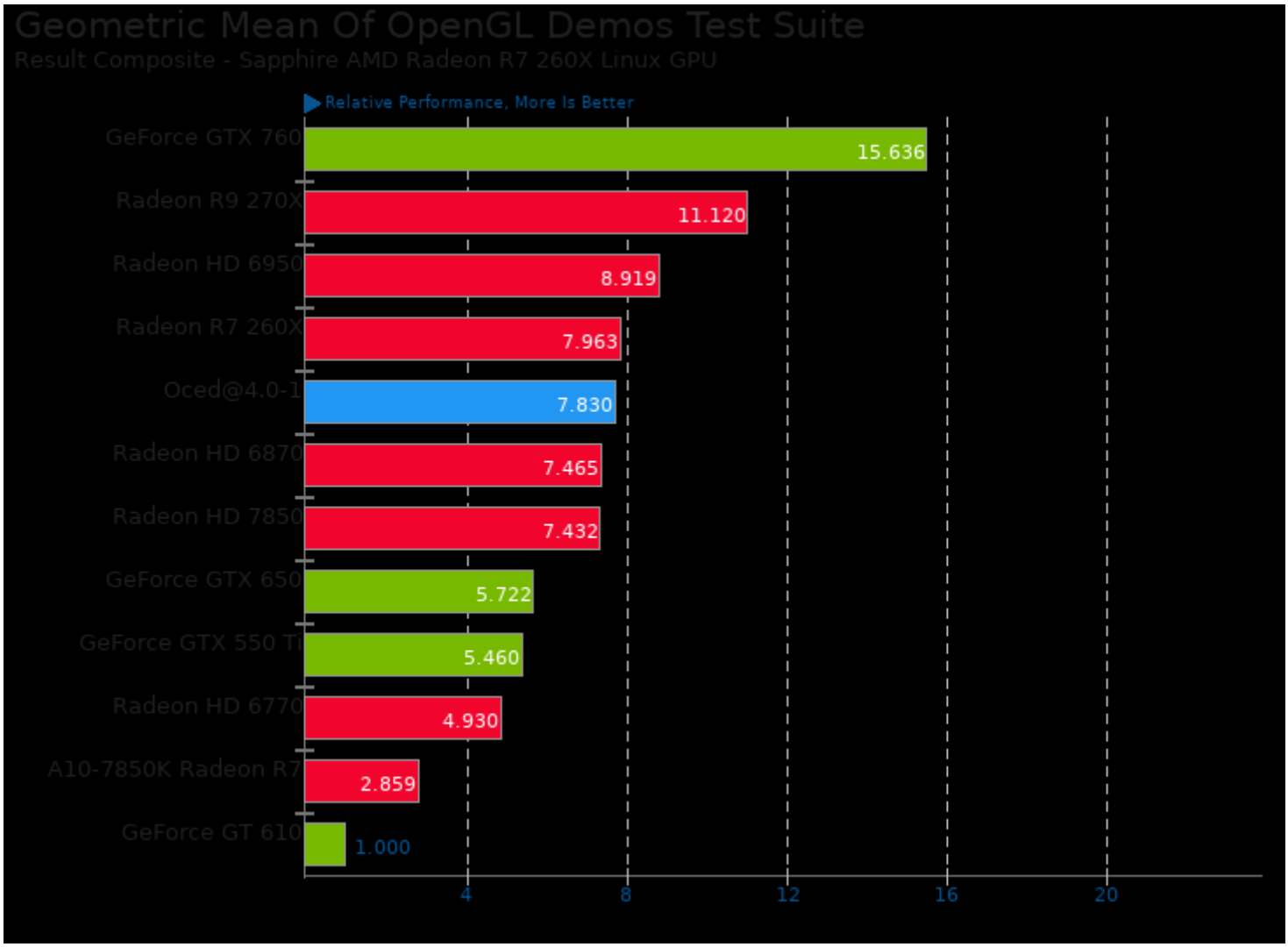
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These geometric means are based upon test groupings / test suites for this result file.

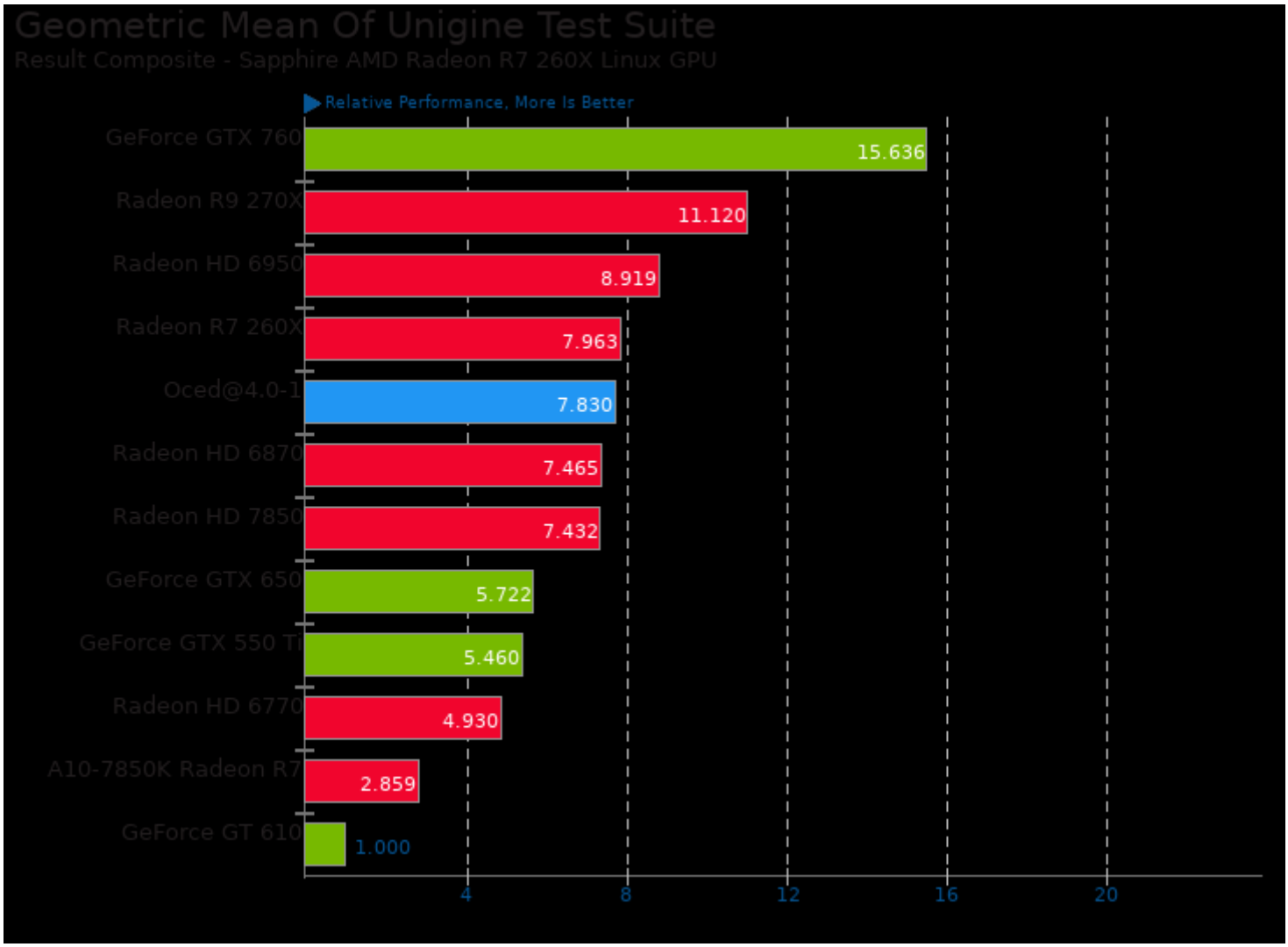


Geometric mean based upon tests: pts/xonotic, pts/openarena, pts/unigine-valley and pts/unigine-heaven



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

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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 04:31.