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Darktable 2.2 Benchmarks

Darktable 2.2 OpenCL benchmarks.

Test Systems:

GeForce GTX 650

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 256GB TOSHIBA-RD400, Graphics: MSI NVIDIA GeForce GTX 650 1024MB (1084/2500MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-57-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.26, OpenGL: 4.5.0, Vulkan: 1.0.24, Compiler: GCC 5.4.0 20160609 + CUDA 8.0, File-System: ext4, Screen Resolution: 3840x2160

Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 680

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 256GB TOSHIBA-RD400, Graphics: NVIDIA GeForce GTX 680 2048MB (1006/3004MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-57-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.26, OpenGL: 4.5.0, Vulkan: 1.0.24, Compiler: GCC 5.4.0 20160609 + CUDA 8.0, File-System: ext4, Screen Resolution: 3840x2160

Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 750

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 256GB TOSHIBA-RD400, Graphics: eVGA NVIDIA GeForce GTX 750 1024MB (1019/2505MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-57-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.26, OpenGL: 4.5.0, Vulkan: 1.0.24, Compiler: GCC 5.4.0 20160609 + CUDA 8.0, File-System: ext4, Screen Resolution: 3840x2160

Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 760

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 256GB TOSHIBA-RD400, Graphics: NVIDIA GeForce GTX 760 2048MB (980/3004MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-57-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.26, OpenGL: 4.5.0, Vulkan: 1.0.24, Compiler: GCC 5.4.0 20160609 + CUDA 8.0, File-System: ext4, Screen Resolution: 3840x2160

Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 780 Ti

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 256GB TOSHIBA-RD400, Graphics: NVIDIA GeForce GTX 780 Ti 3072MB (875/3500MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-57-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.26, OpenGL: 4.5.0, Vulkan: 1.0.24, Compiler: GCC 5.4.0 20160609 + CUDA 8.0, File-System: ext4, Screen Resolution: 3840x2160

Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 950

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 256GB TOSHIBA-RD400, Graphics: eVGA NVIDIA GeForce GTX 950 2048MB (1202/3304MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-57-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.26, OpenGL: 4.5.0, Vulkan: 1.0.24, Compiler: GCC 5.4.0 20160609 + CUDA 8.0, File-System: ext4, Screen Resolution: 3840x2160

Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 960

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 256GB TOSHIBA-RD400, Graphics: eVGA NVIDIA GeForce GTX 960 2048MB (1277/3505MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-57-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.26, OpenGL: 4.5.0, Vulkan: 1.0.24, Compiler: GCC 5.4.0 20160609 + CUDA 8.0, File-System: ext4, Screen Resolution: 3840x2160

Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 970

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 256GB TOSHIBA-RD400, Graphics: eVGA NVIDIA GeForce GTX 970 4096MB (1163/3505MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-57-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.26, OpenGL: 4.5.0, Vulkan: 1.0.24, Compiler: GCC 5.4.0 20160609 + CUDA 8.0, File-System: ext4, Screen Resolution: 3840x2160

Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 980

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 256GB TOSHIBA-RD400, Graphics: NVIDIA GeForce GTX 980 4096MB (1126/3505MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-57-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.26, OpenGL: 4.5.0, Vulkan: 1.0.24, Compiler: GCC 5.4.0 20160609 + CUDA 8.0, File-System: ext4, Screen Resolution: 3840x2160

Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 980 Ti

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 256GB TOSHIBA-RD400, Graphics: NVIDIA GeForce GTX 980 Ti 6144MB (999/3505MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-57-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.26, OpenGL: 4.5.0, Vulkan: 1.0.24, Compiler: GCC 5.4.0 20160609 + CUDA 8.0, File-System: ext4, Screen Resolution: 3840x2160

Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 1050

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 256GB TOSHIBA-RD400, Graphics: Zotac NVIDIA GeForce GTX 1050 2048MB (1316/3504MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-57-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.26, OpenGL: 4.5.0, Vulkan: 1.0.24, Compiler: GCC 5.4.0 20160609 + CUDA 8.0, File-System: ext4, Screen Resolution: 3840x2160

Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 1050 Ti

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 256GB TOSHIBA-RD400, Graphics: eVGA NVIDIA GeForce GTX 1050 Ti 4096MB (987/3504MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-57-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.26, OpenGL: 4.5.0, Vulkan: 1.0.24, Compiler: GCC 5.4.0 20160609 + CUDA 8.0, File-System: ext4, Screen Resolution: 3840x2160

Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 1060

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 256GB TOSHIBA-RD400, Graphics: NVIDIA GeForce GTX 1060 6GB 6144MB (1506/4006MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-57-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.26, OpenGL: 4.5.0, Vulkan: 1.0.24, Compiler: GCC 5.4.0 20160609 + CUDA 8.0, File-System: ext4, Screen Resolution: 3840x2160

Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 1070

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0, Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 256GB TOSHIBA-RD400, Graphics: NVIDIA GeForce GTX 1070 8192MB (1493/4006MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-57-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.26, OpenGL: 4.5.0, Vulkan: 1.0.24, Compiler: GCC 5.4.0 20160609 + CUDA 8.0, File-System: ext4, Screen Resolution: 3840x2160

Processor Notes: Scaling Governor: intel_pstate powersave

GeForce GTX 1080

Processor: Intel Xeon E3-1280 v5 @ 4.00GHz (8 Cores), Motherboard: MSI C236A WORKSTATION (MS-7998) v1.0,

Darktable 2.2 Benchmarks

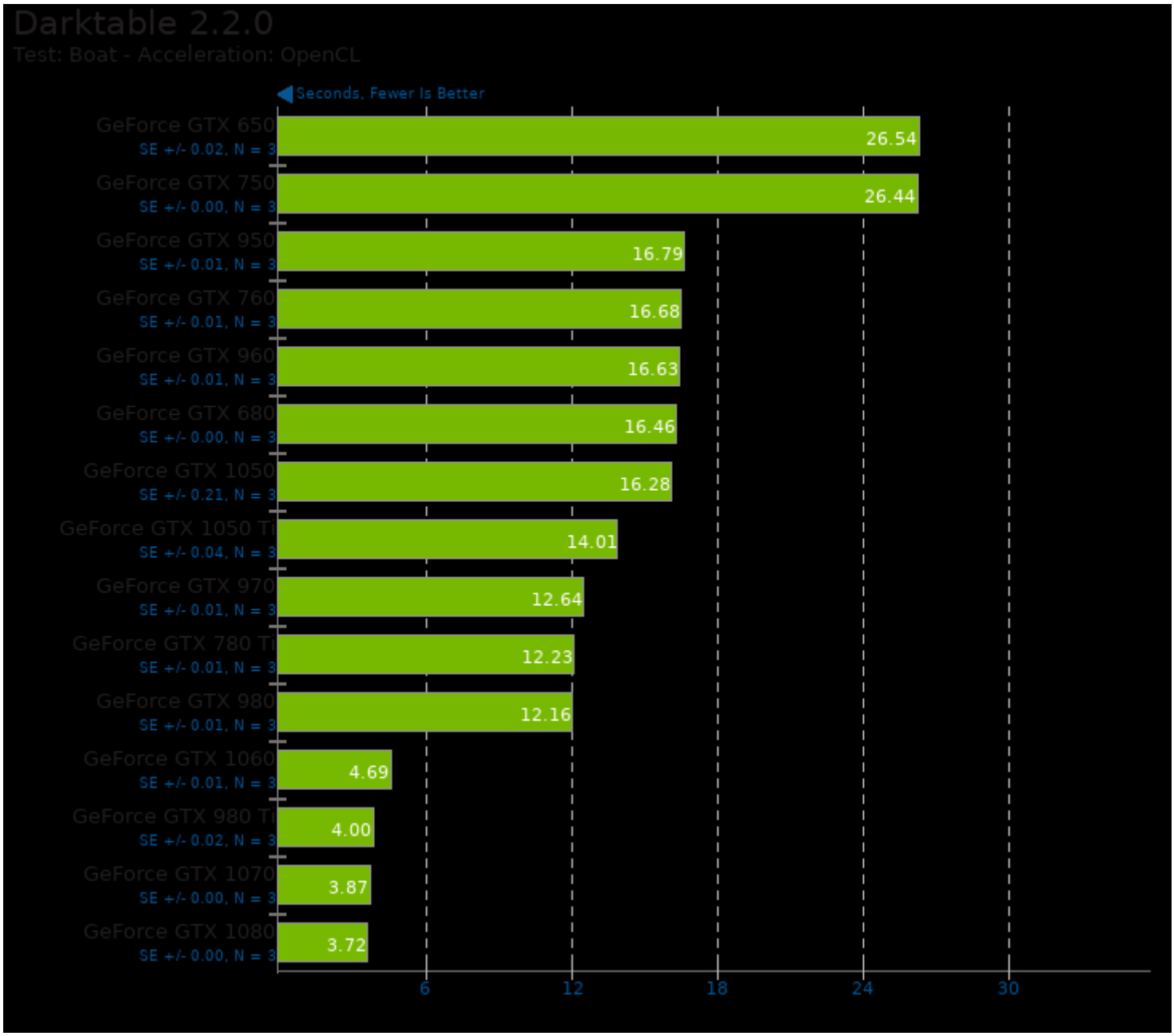
Chipset: Intel Sky Lake, Memory: 16384MB, Disk: 256GB TOSHIBA-RD400, Graphics: NVIDIA GeForce GTX 1080 8192MB (1606/5005MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-57-generic (x86_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.26, OpenGL: 4.5.0, Vulkan: 1.0.24, Compiler: GCC 5.4.0 20160609 + CUDA 8.0, File-System: ext4, Screen Resolution: 3840x2160

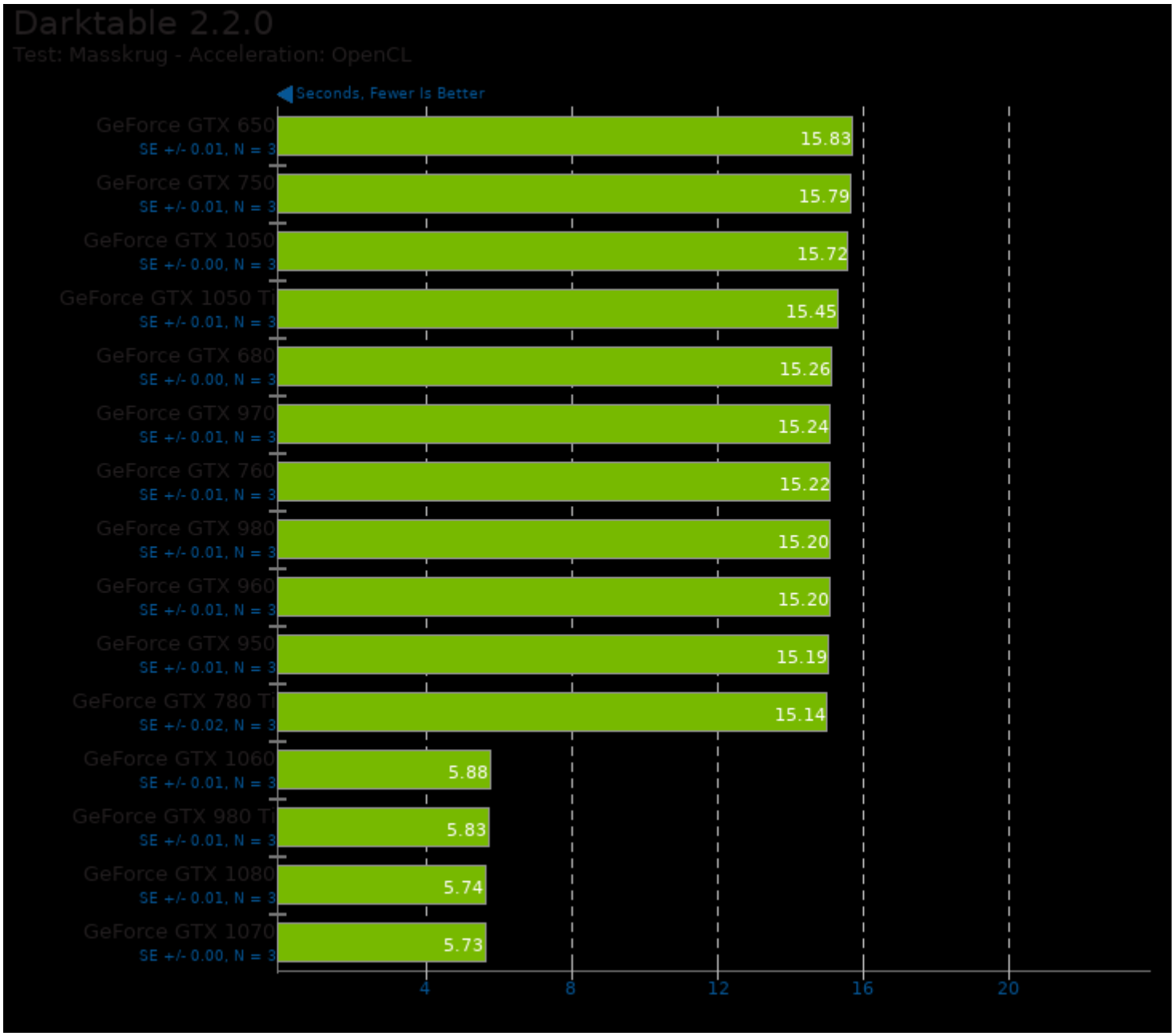
Processor Notes: Scaling Governor: intel_pstate powersave

	GeForce GTX 650	GeForce GTX 680	GeForce GTX 750	GeForce GTX 760	GeForce GTX 780 Ti	GeForce GTX 950	GeForce GTX 960	GeForce GTX 970	GeForce GTX 980	GeForce GTX 980 Ti	GeForce GTX 1050	GeForce GTX 1050 Ti	GeForce GTX 1060	GeForce GTX 1070	GeForce GTX 1080
Darktable - Boat - OpenCL	**26.54**	16.46	26.44	16.68	12.23	16.79	16.63	12.64	12.16	4.00	16.28	14.01	4.69	3.87	**3.72**
Normalized	14.02%	22.6%	14.07%	22.3%	30.42%	22.16%	22.37%	29.43%	30.59%	93%	22.85%	26.55%	79.32%	96.12%	100%
Standard Deviation	0.1%	0%	0%	0.1%	0.2%	0.1%	0.1%	0.1%	0.2%	1.1%	2.3%	0.5%	0.5%	0.1%	0%
Darktable - Masskrug - OpenCL	**15.83**	15.26	15.79	15.22	15.14	15.19	15.20	15.24	15.20	5.83	15.72	15.45	5.88	**5.73**	5.74
Normalized	36.2%	37.55%	36.29%	37.65%	37.85%	37.72%	37.7%	37.6%	37.7%	98.28%	36.45%	37.09%	97.45%	100%	99.83%
Standard Deviation	0.1%	0.1%	0.1%	0.1%	0.2%	0.1%	0.1%	0.1%	0.1%	0.4%	0%	0.1%	0.3%	0.1%	0.2%
Darktable - Server Room - OpenCL (sec)	**14.46**	11.87	14.43	11.85	10.60	11.84	11.84	10.73	10.67	1.09	12.01	11.00	1.19	**0.99**	1.00
Normalized	6.85%	8.34%	6.86%	8.35%	9.34%	8.36%	8.36%	9.23%	9.28%	90.83%	8.24%	9%	83.19%	100%	99%
Standard Deviation	0%	0.1%	0%	0.1%	0.2%	0.2%	0.2%	0.1%	0%	0.3%	0.1%	0.1%	0.1%	0.2%	0.6%

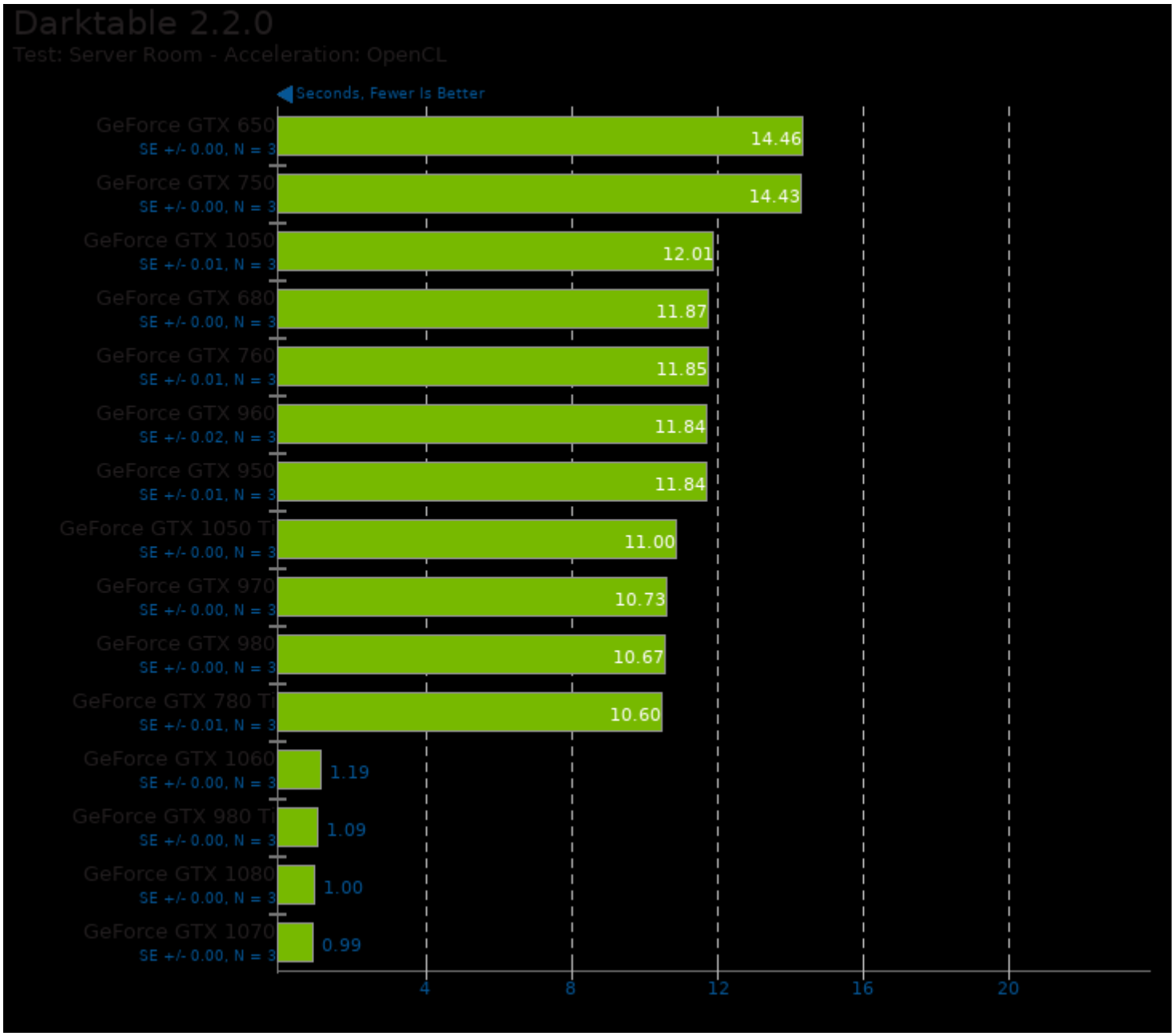
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