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Linux Mint 20.2 with AMD Ryzen 7 3700X

AMD Ryzen 7 3700X 8-Core testing with a MSI B550M PRO-VDH WIFI (MS-7C95) v1.0 (2.60 BIOS) and MSI NVIDIA GeForce GTX 1660 6GB on Linuxmint 20.2 via the Phoronix Test Suite.

Test Systems:

AMD A8-6600K APU - MSI NVIDIA GeForce GTX 1660 6GB -

Processor: AMD A8-6600K APU @ 3.90GHz (2 Cores / 4 Threads), Motherboard: ASUS A88XM-A (1801 BIOS), Chipset: AMD 15h, Memory: 16GB, Disk: 120GB KINGSTON SV300S3 + 1000GB Seagate ST1000DM003-1ER1 + 1000GB Seagate ST1000DM003-1CH1, Graphics: MSI NVIDIA GeForce GTX 1660 6GB (1530/4001MHz), Audio: Realtek ALC887-VD, Monitor: BenQ LCD, Network: Realtek RTL8111/8168/8411

OS: Linuxmint 20.1, Kernel: 5.4.0-65-generic (x86_64), Desktop: Cinnamon 4.8.6, Display Server: X Server 1.20.9, Display Driver: NVIDIA 460.32.03, OpenGL: 4.6.0, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 2560x1440

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x6001119

Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline STIBP: disabled RSB filling + srbds: Not affected + tsx_async_abort: Not affected

AMD Ryzen 7 3700X 8-Core - MSI NVIDIA GeForce GTX

Processor: AMD Ryzen 7 3700X 8-Core @ 3.60GHz (8 Cores / 16 Threads), Motherboard: MSI B550M PRO-VDH WIFI (MS-7C95) v1.0 (2.60 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 120GB KINGSTON SV300S3 + 1000GB Seagate ST1000DM003-1CH1 + 1000GB Seagate ST1000DM003-1ER1, Graphics: MSI NVIDIA GeForce GTX 1660 6GB, Audio: NVIDIA TU116 HD Audio, Monitor: BenQ LCD, Network: Realtek RTL8111/8168/8411 + Intel Dual Band-AC 3168NGW

OS: Linuxmint 20.2, Kernel: 5.4.0-81-generic (x86_64), Desktop: Cinnamon 5.0.5, Display Server: X Server 1.20.11, Display Driver: NVIDIA 470.63.01, OpenGL: 4.6.0, Vulkan: 1.2.175, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 2560x1440

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x8701021
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	AMD A8-6600K APU - MSI NVIDIA GeForce GTX 1660 6GB -	AMD Ryzen 7 3700X 8-Core - MSI NVIDIA GeForce GTX
Darktable - Boat - OpenCL (sec)	5.904	
Standard Deviation	0.3%	
Darktable - Boat - CPU-only (sec)	46.453	
Standard Deviation	0.4%	
Darktable - Masskrug - OpenCL (sec)	13.401	
Standard Deviation	0.3%	
Darktable - Masskrug - CPU-only (sec)	51.257	
Standard Deviation	0.2%	
Darktable - Server Rack - OpenCL (sec)	0.326	
Standard Deviation	0.8%	
Darktable - Server Room - OpenCL (sec)	1.947	
Standard Deviation	0.5%	
Darktable - Server Rack - CPU-only (sec)	0.772	
Standard Deviation	2.1%	
Darktable - Server Room - CPU-only (sec)	46.261	
Standard Deviation	0.2%	
Darktable - Boat - OpenCL (sec)		3.180
Standard Deviation		2%
Darktable - Boat - CPU-only (sec)		4.681
Standard Deviation		1.9%
Darktable - Masskrug - OpenCL (sec)		3.403
Standard Deviation		0.2%
Darktable - Masskrug - CPU-only (sec)		4.709
Standard Deviation		0.4%
Darktable - Server Rack - OpenCL (sec)		0.165

Standard Deviation	1.2%
Darktable - Server Room - OpenCL (sec)	1.250
Standard Deviation	0.9%
Darktable - Server Rack - CPU-only (sec)	0.241
Standard Deviation	1%
Darktable - Server Room - CPU-only (sec)	3.448
Standard Deviation	0.3%

Darktable 3.4.1

Test: Boat - Acceleration: OpenCL



Darktable 3.4.1

Test: Boat - Acceleration: CPU-only



Darktable 3.4.1

Test: Masskrug - Acceleration: OpenCL



Darktable 3.4.1

Test: Masskrug - Acceleration: CPU-only



Darktable 3.4.1

Test: Server Rack - Acceleration: OpenCL



Darktable 3.4.1

Test: Server Room - Acceleration: OpenCL



Darktable 3.4.1

Test: Server Rack - Acceleration: CPU-only



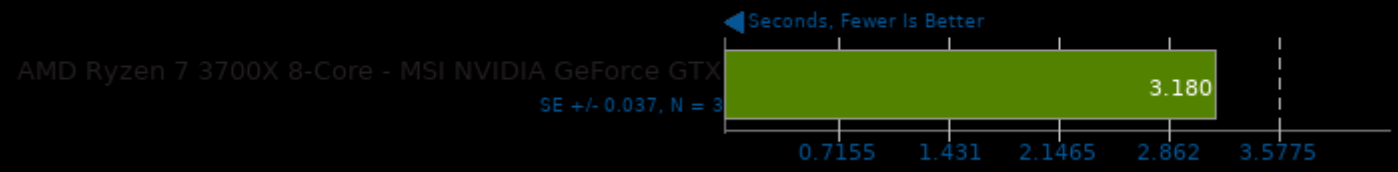
Darktable 3.4.1

Test: Server Room - Acceleration: CPU-only



Darktable 3.6.1

Test: Boat - Acceleration: OpenCL



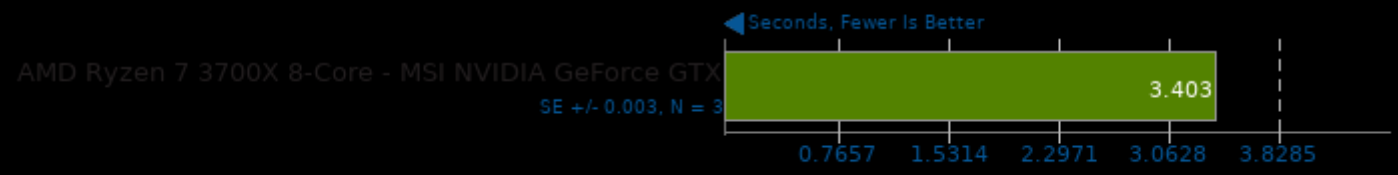
Darktable 3.6.1

Test: Boat - Acceleration: CPU-only



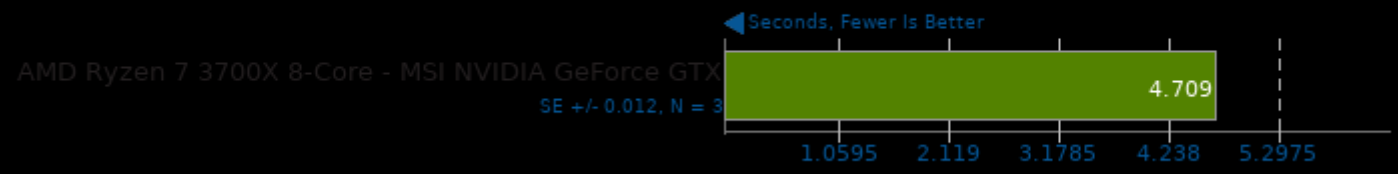
Darktable 3.6.1

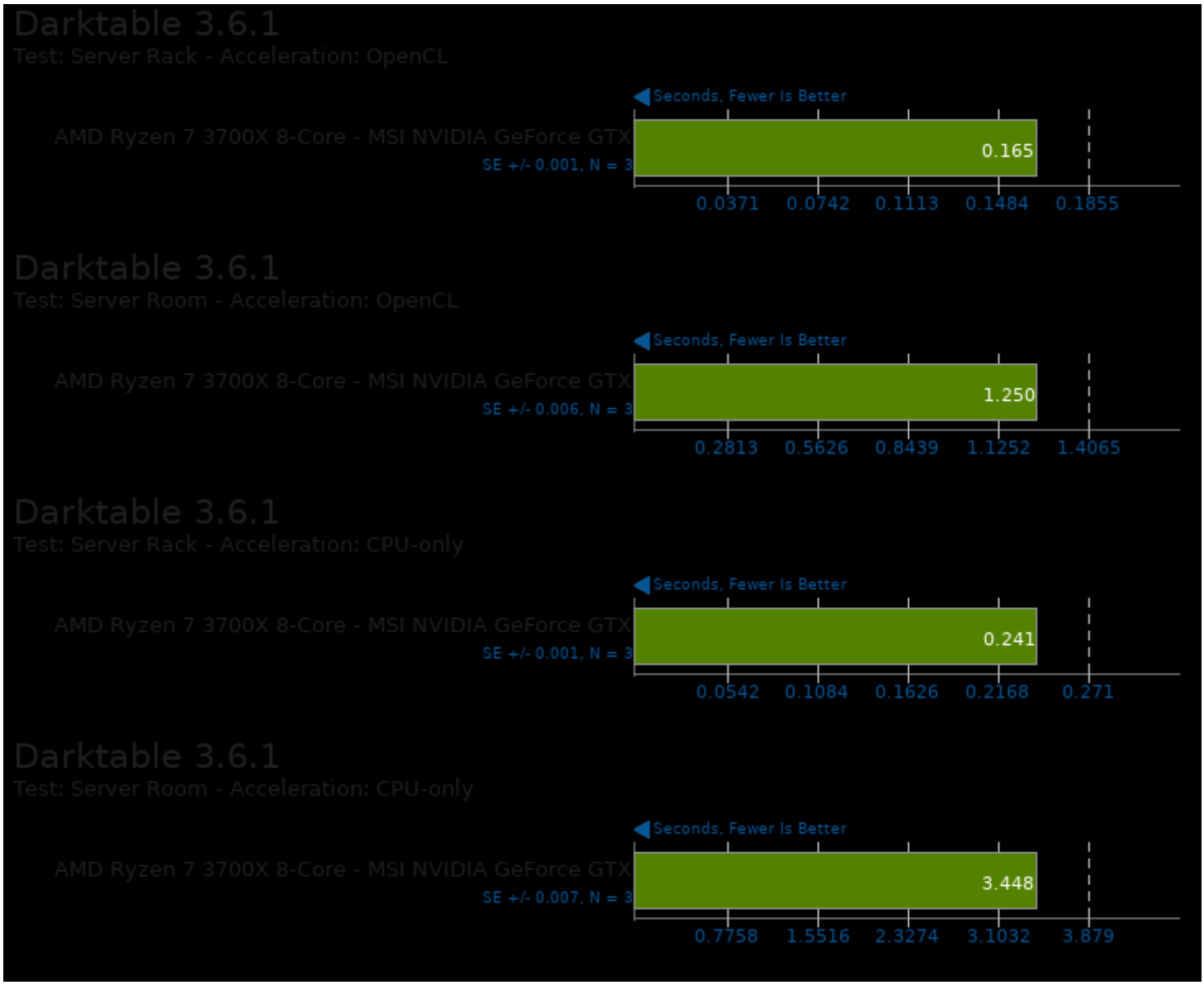
Test: Masskrug - Acceleration: OpenCL



Darktable 3.6.1

Test: Masskrug - Acceleration: CPU-only





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