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darktablei7-6700gtx770

Intel Core i7-6700 testing with a ASUS B150M-C (4002 BIOS) and ASUS Intel HD 530 2GB on Debian 10 via the Phoronix Test Suite.

Test Systems:

Darktable_i7-6700_GTX770

Processor: Intel Core i7-6700 @ 4.00GHz (4 Cores / 8 Threads), Motherboard: ASUS B150M-C (4002 BIOS), Chipset: Intel Skylake, Memory: 32GB, Disk: 256GB SAMSUNG MZ7TD256 + 2000GB Seagate ST2000LX001-1RG1 + 320GB Seagate ST320LM010-1KJ15, Graphics: ASUS Intel HD 530 2GB, Audio: Realtek ALC887-VD, Monitor: DELL P2210 + DELL 2709W, Network: Realtek RTL8111/8168/8411

OS: Debian 10, Kernel: 4.19.0-14-amd64 (x86_64), Desktop: GNOME Shell 3.30.2, Display Server: X Server 1.20.4, Display Driver: modesetting 1.20.4, OpenGL: 4.5 Mesa 18.3.6, OpenCL: OpenCL 2.0 beignet 1.3 + OpenCL 1.2 CUDA 10.1.354, Compiler: GCC 8.3.0 + CUDA 9.2, File-System: ext4, Screen Resolution: 2970x1680

Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xd6
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of

Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + 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 generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Vulnerable: No microcode + tsx_async_abort: Mitigation of Clear buffers; SMT vulnerable

20210314-01

Processor: Intel Core i7-6700 @ 4.00GHz (4 Cores / 8 Threads), Motherboard: ASUS B150M-C (4002 BIOS), Chipset: Intel Skylake, Memory: 32GB, Disk: 256GB SAMSUNG MZ7TD256 + 2000GB Seagate ST2000LX001-1RG1 + 320GB Seagate ST320LM010-1KJ15, Graphics: ASUS Intel HD 530 2GB, Audio: Realtek ALC887-VD, Monitor: DELL 2709W + DELL P2210, Network: Realtek RTL8111/8168/8411

OS: Debian 10, Kernel: 4.19.0-15-amd64 (x86_64), Desktop: GNOME Shell 3.30.2, Display Server: X Server 1.20.4, Display Driver: modesetting 1.20.4, OpenGL: 4.5 Mesa 18.3.6, OpenCL: OpenCL 2.0 beignet 1.3 + OpenCL 1.2 CUDA 11.2.136, Compiler: GCC 8.3.0 + CUDA 9.2, File-System: ext4, Screen Resolution: 2970x1680

Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xd6
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Vulnerable: No microcode + tsx_async_abort: Mitigation of Clear buffers; SMT vulnerable

Intel Core i7-6700 - ASUS Intel HD 530 2GB - ASUS

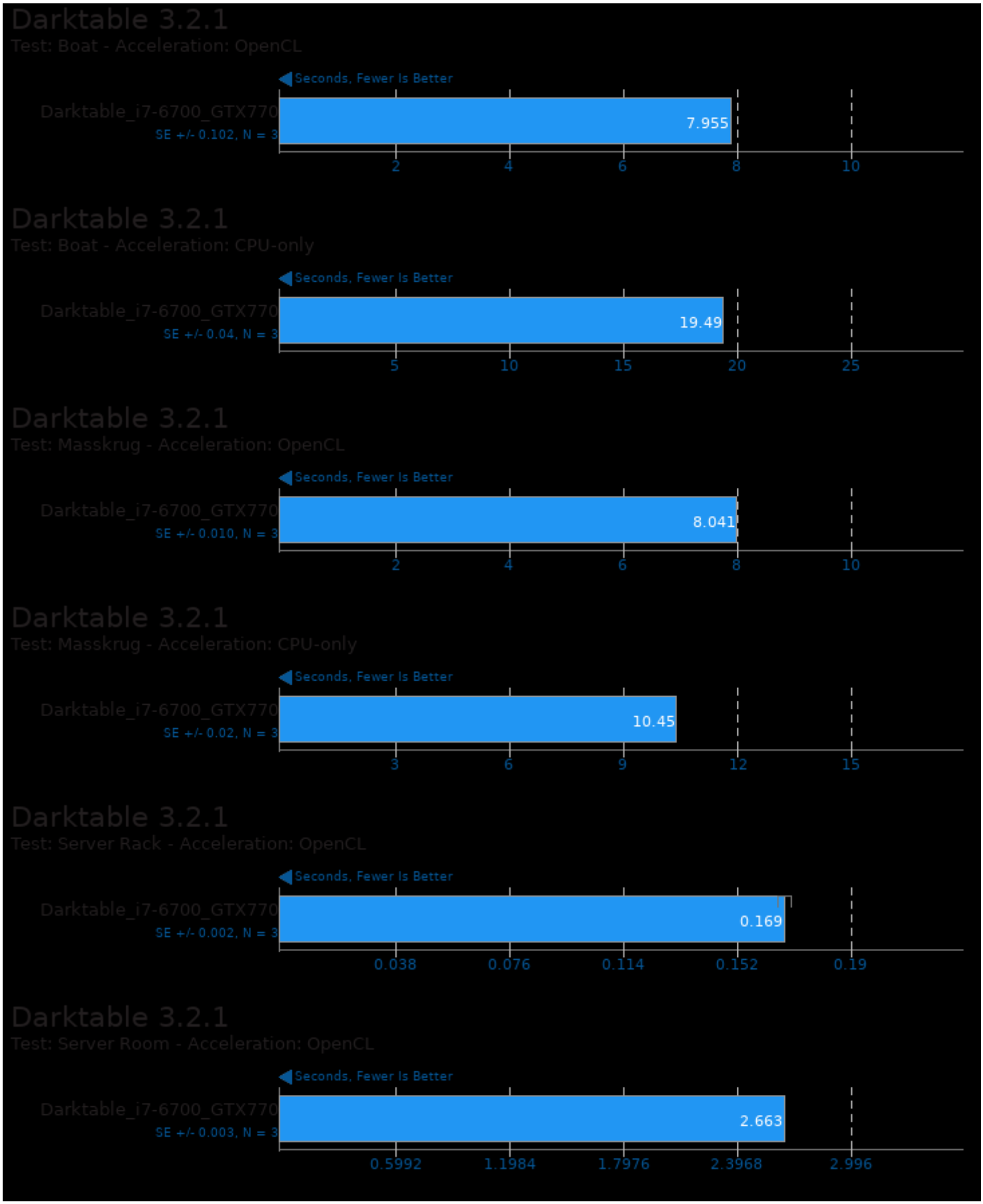
Processor: Intel Core i7-6700 @ 4.00GHz (4 Cores / 8 Threads), Motherboard: ASUS B150M-C (4002 BIOS), Chipset: Intel Skylake, Memory: 40GB, Disk: 256GB SAMSUNG MZ7TD256 + 2000GB Seagate ST2000LX001-1RG1 + 500GB Seagate ST500LM021-1KJ15, Graphics: ASUS Intel HD 530 2GB, Audio: Realtek ALC887-VD, Monitor: DELL 2709W + DELL P2210, Network: Realtek RTL8111/8168/8411

OS: Debian 10, Kernel: 4.19.0-20-amd64 (x86_64), Desktop: GNOME Shell 3.30.2, Display Server: X Server 1.20.4, Display Driver: modesetting 1.20.4, OpenGL: 4.5 Mesa 18.3.6, OpenCL: OpenCL 2.0 beignet 1.3 + OpenCL 1.2 CUDA 11.2.162, Compiler: GCC 8.3.0 + CUDA 9.2, File-System: ext4, Screen Resolution: 2970x1680

Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xec
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Mitigation of Microcode + tsx_async_abort: Mitigation of Clear buffers; SMT vulnerable

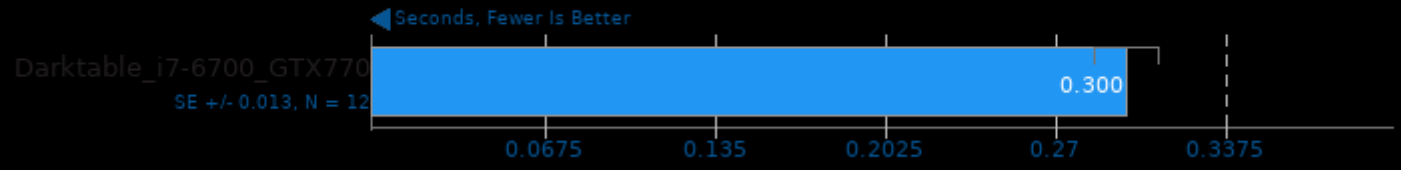
	Darktable_i7-6700_GTX770	20210314-01	Intel Core i7-6700 - ASUS Intel HD 530 2GB - ASUS
Darktable - Boat - OpenCL (sec)	7.955		
Standard Deviation	2.2%		
Darktable - Boat - CPU-only (sec)	19.494		
Standard Deviation	0.3%		
Darktable - Masskrug - OpenCL (sec)	8.041		
Standard Deviation	0.2%		
Darktable - Masskrug - CPU-only (sec)	10.452		

Standard Deviation	0.4%		
Darktable - Server Rack - OpenCL (sec)	0.169		
Standard Deviation	2.1%		
Darktable - Server Room - OpenCL (sec)	2.663		
Standard Deviation	0.2%		
Darktable - Server Rack - CPU-only (sec)	0.300		
Standard Deviation	15.1%		
Darktable - Server Room - CPU-only (sec)	7.617		
Standard Deviation	2.9%		
LuxMark - GPU - Hotel (Score)		1429	
Standard Deviation		0.9%	
LuxMark - GPU - Microphone (Score)		169773	
Standard Deviation		293.8%	
LuxMark - GPU - Luxball HDR (Score)		5152	
Darktable - Boat - OpenCL (sec)			7.358
Standard Deviation			0.1%
Darktable - Masskrug - OpenCL (sec)			11.644
Standard Deviation			2.9%
Darktable - Server Rack - OpenCL (sec)			0.183
Standard Deviation			4.7%
Darktable - Server Room - OpenCL (sec)			2.845
Standard Deviation			1.3%


Darktable 3.2.1
Test: Boat - Acceleration: OpenCL
Seconds, Fewer Is Better
Darktable_i7-6700_GTX770
SE +/- 0.102, N = 3
7.955
2
4
6
8
10
Darktable 3.2.1
Test: Boat - Acceleration: CPU-only
Seconds, Fewer Is Better
Darktable_i7-6700_GTX770
SE +/- 0.04, N = 3
19.49
5
10
15
20
25
Darktable 3.2.1
Test: Masskrug - Acceleration: OpenCL
Seconds, Fewer Is Better
Darktable_i7-6700_GTX770
SE +/- 0.010, N = 3
8.041
2
4
6
8
10
Darktable 3.2.1
Test: Masskrug - Acceleration: CPU-only
Seconds, Fewer Is Better
Darktable_i7-6700_GTX770
SE +/- 0.02, N = 3
10.45
3
6
9
12
15
Darktable 3.2.1
Test: Server Rack - Acceleration: OpenCL
Seconds, Fewer Is Better
Darktable_i7-6700_GTX770
SE +/- 0.002, N = 3
0.169
0.038
0.076
0.114
0.152
0.19
Darktable 3.2.1
Test: Server Room - Acceleration: OpenCL
Seconds, Fewer Is Better
Darktable_i7-6700_GTX770
SE +/- 0.003, N = 3
2.663
0.5992
1.1984
1.7976
2.3968
2.996

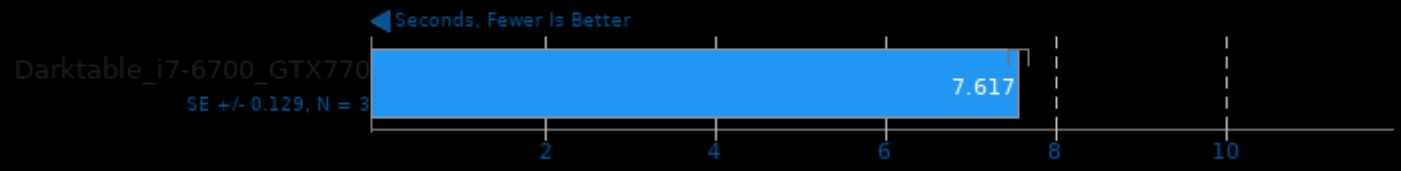
Darktable 3.2.1

Test: Server Rack - Acceleration: CPU-only



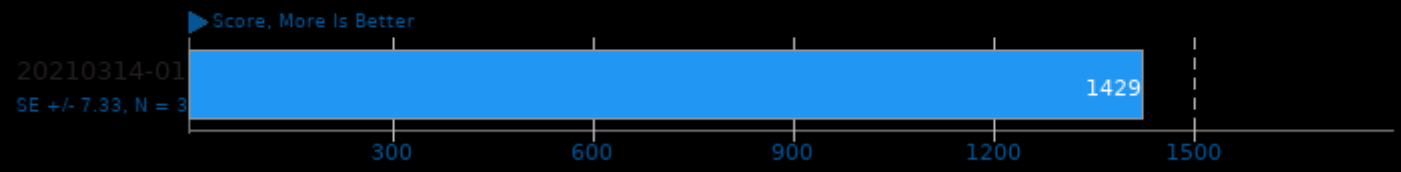
Darktable 3.2.1

Test: Server Room - Acceleration: CPU-only



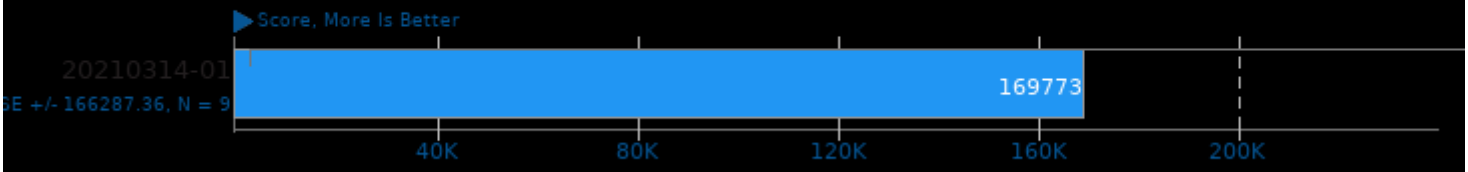
LuxMark 3.1

OpenCL Device: GPU - Scene: Hotel



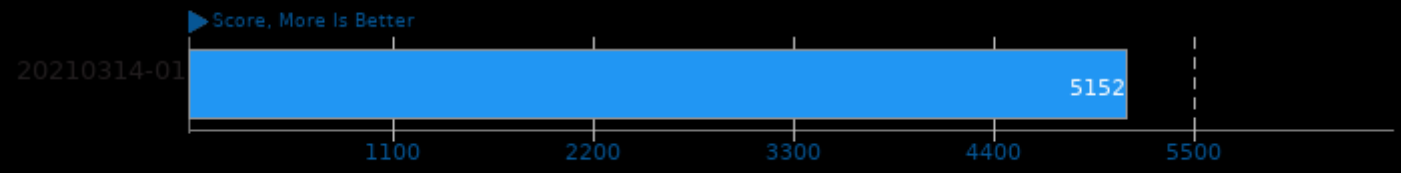
LuxMark 3.1

OpenCL Device: GPU - Scene: Microphone



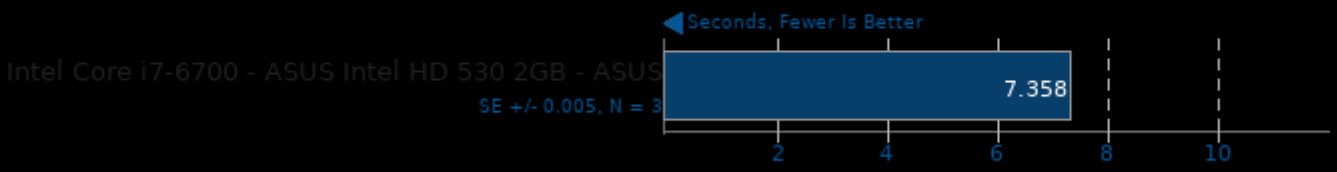
LuxMark 3.1

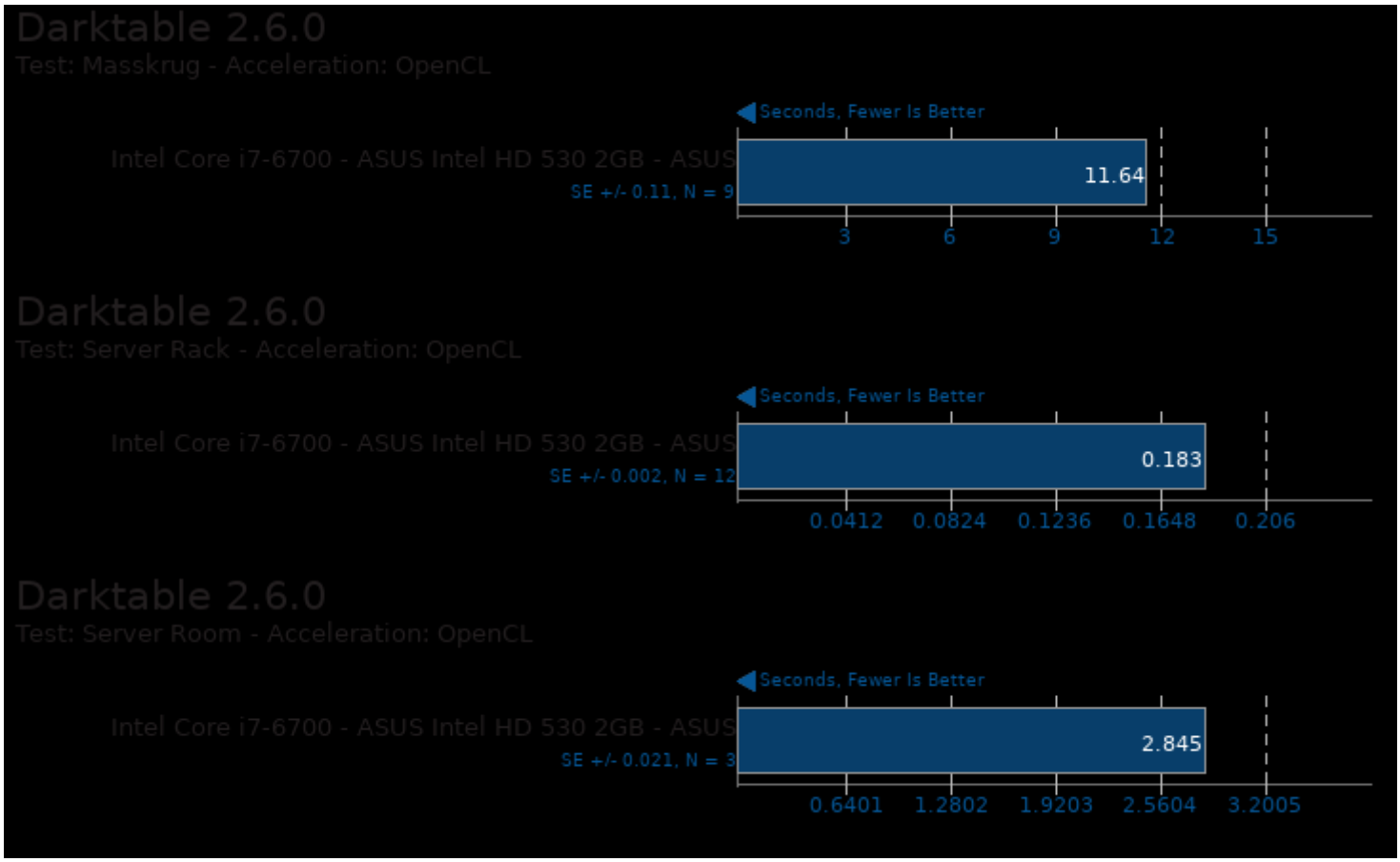
OpenCL Device: GPU - Scene: Luxball HDR



Darktable 2.6.0

Test: Boat - Acceleration: OpenCL





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