



## **DarkTable Testing**

Intel Xeon W3550 testing with a HP 0B4Ch and NVIDIA Quadro 2000 1024MB on Ubuntu 16.04 via the Phoronix Test Suite.

## Test Systems:

### Intel Xeon E3-1280 v5 (CPU Only)

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 INTEL SSDPEKKW256G7, Graphics: Sapphire AMD Radeon R9 Fury 4096MB, Audio: Realtek ALC1150, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 4.5.13453, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### 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 INTEL SSDPEKKW256G7, Graphics: NVIDIA GeForce GTX 680 2048MB (1006/3004MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.10, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 8.0.0 + OpenCL 1.1 Mesa 13.1.0-devel (git-b27be18), Vulkan: 1.0.8, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### 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 INTEL SSDPEKKW256G7, Graphics: NVIDIA GeForce GTX 780 Ti 3072MB (875/3500MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.10, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 8.0.0 + OpenCL 1.1 Mesa 13.1.0-devel (git-b27be18), Vulkan: 1.0.8, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### 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 INTEL SSDPEKKW256G7, Graphics: eVGA NVIDIA GeForce GTX 950 2048MB (1202/3304MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.10, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 8.0.0 + OpenCL 1.1 Mesa 13.1.0-devel (git-b27be18), Vulkan: 1.0.8, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### GeForce GTX 960

## DarkTable Testing

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 INTEL SSDPEKKW256G7, Graphics: eVGA NVIDIA GeForce GTX 960 2048MB (1277/3505MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.10, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 8.0.0 + OpenCL 1.1 Mesa 13.1.0-devel (git-b27be18), Vulkan: 1.0.8, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### 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 INTEL SSDPEKKW256G7, Graphics: eVGA NVIDIA GeForce GTX 970 4096MB (1163/3505MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.10, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 8.0.0 + OpenCL 1.1 Mesa 13.1.0-devel (git-b27be18), Vulkan: 1.0.8, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### 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 INTEL SSDPEKKW256G7, Graphics: NVIDIA GeForce GTX 980 4096MB (1126/3505MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.10, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 8.0.0 + OpenCL 1.1 Mesa 13.1.0-devel (git-b27be18), Vulkan: 1.0.8, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### 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 INTEL SSDPEKKW256G7, Graphics: NVIDIA GeForce GTX 980 Ti 6144MB (999/3505MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.10, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 8.0.0 + OpenCL 1.1 Mesa 13.1.0-devel (git-b27be18), Vulkan: 1.0.8, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### 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 INTEL SSDPEKKW256G7, Graphics: Zotac NVIDIA GeForce GTX 1050 2048MB (1316/3504MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.10, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 8.0.0 + OpenCL 1.1 Mesa 13.1.0-devel (git-b27be18), Vulkan: 1.0.8, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### 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 INTEL SSDPEKKW256G7, Graphics: eVGA NVIDIA GeForce GTX 1050 Ti 4096MB (1340/3504MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.10, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 8.0.0 + OpenCL 1.1 Mesa 13.1.0-devel (git-b27be18), Vulkan: 1.0.8, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### 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 INTEL SSDPEKKW256G7, Graphics: NVIDIA GeForce GTX 1060 6GB 6144MB (1506/4006MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.10, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 8.0.0 + OpenCL 1.1 Mesa 13.1.0-devel (git-b27be18), Vulkan: 1.0.8, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### 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 INTEL SSDPEKKW256G7, Graphics: NVIDIA GeForce GTX 1070 8192MB (1505/4006MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.10, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 8.0.0 + OpenCL 1.1 Mesa 13.1.0-devel (git-b27be18), Vulkan: 1.0.8, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### GeForce GTX 1080

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 INTEL SSDPEKKW256G7, Graphics: NVIDIA GeForce GTX 1080 8192MB (1616/5005MHz), Audio: Realtek ALC1150, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: NVIDIA 375.10, OpenGL: 4.5.0, OpenCL: OpenCL 1.2 CUDA 8.0.0 + OpenCL 1.1 Mesa 13.1.0-devel (git-b27be18), Vulkan: 1.0.8, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### Radeon R7 260X

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 INTEL SSDPEKKW256G7, Graphics: Sapphire AMD Radeon R7 200 2048MB, Audio: Realtek ALC1150, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 4.5.13453, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### Radeon R9 285

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 INTEL SSDPEKKW256G7, Graphics: XFX AMD Radeon R9 200 2048MB, Audio: Realtek ALC1150, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 4.5.13453, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### Radeon R9 290

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 INTEL SSDPEKKW256G7, Graphics: XFX AMD Radeon R9 200 4096MB, Audio: Realtek ALC1150, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 4.5.13453, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### Radeon RX 460

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 INTEL SSDPEKKW256G7, Graphics: AMD Radeon RX 460 2048MB, Audio: Realtek ALC1150, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 4.5.13453, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### Radeon RX 470

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 INTEL SSDPEKKW256G7, Graphics: Sapphire AMD Radeon RX 470 4096MB, Audio: Realtek ALC1150, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 4.5.13453, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### Radeon RX 480

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 INTEL SSDPEKKW256G7, Graphics: AMD Radeon RX 480 8192MB, Audio: Realtek ALC1150, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 4.5.13453, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### Radeon R9 Fury

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 INTEL SSDPEKKW256G7, Graphics: Sapphire AMD Radeon R9 Fury 4096MB, Audio: Realtek ALC1150, Monitor: Acer B286HK, Network: Intel Connection

OS: Ubuntu 16.04, Kernel: 4.4.0-47-generic (x86\_64), Desktop: Unity 7.4.0, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 4.5.13453, Compiler: GCC 5.4.0 20160609 + LLVM 4.0.0, File-System: ext4, Screen Resolution: 3840x2160

### Quadro 2000

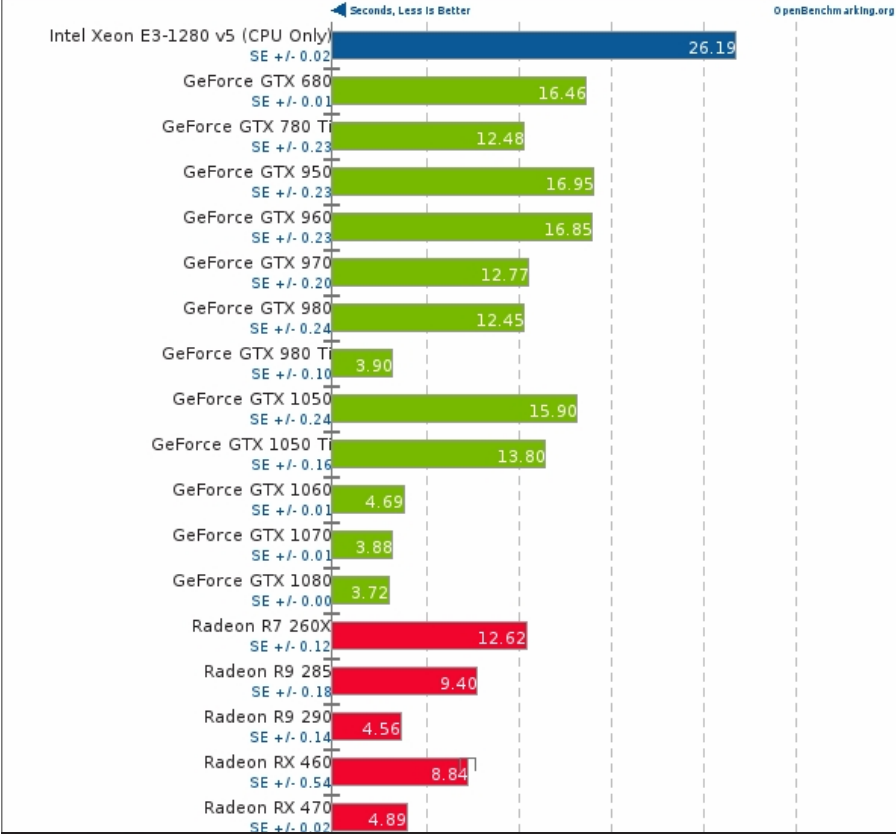
Processor: Intel Xeon W3550 @ 3.06GHz (8 Cores), Motherboard: HP 0B4Ch, Chipset: Intel 5520/5500/X58 + ICH10R, Memory: 16384MB, Disk: 250GB Crucial\_CT250MX2 + 2 x 2000GB Western Digital WD20EADS-00R, Graphics: NVIDIA Quadro 2000 1024MB (405/324MHz), Audio: Realtek ALC262, Monitor: Eizo CS240, Network: Broadcom NetXtreme BCM5764M Gigabit PCIe

OS: Ubuntu 16.04, Kernel: 4.4.0-51-generic (x86\_64), Desktop: KDE Frameworks 5, Display Driver: NVIDIA 340.98, Compiler: GCC 5.4.0 20160609, File-System: ext4, Screen Resolution: 1920x1200

# DarkTable Testing

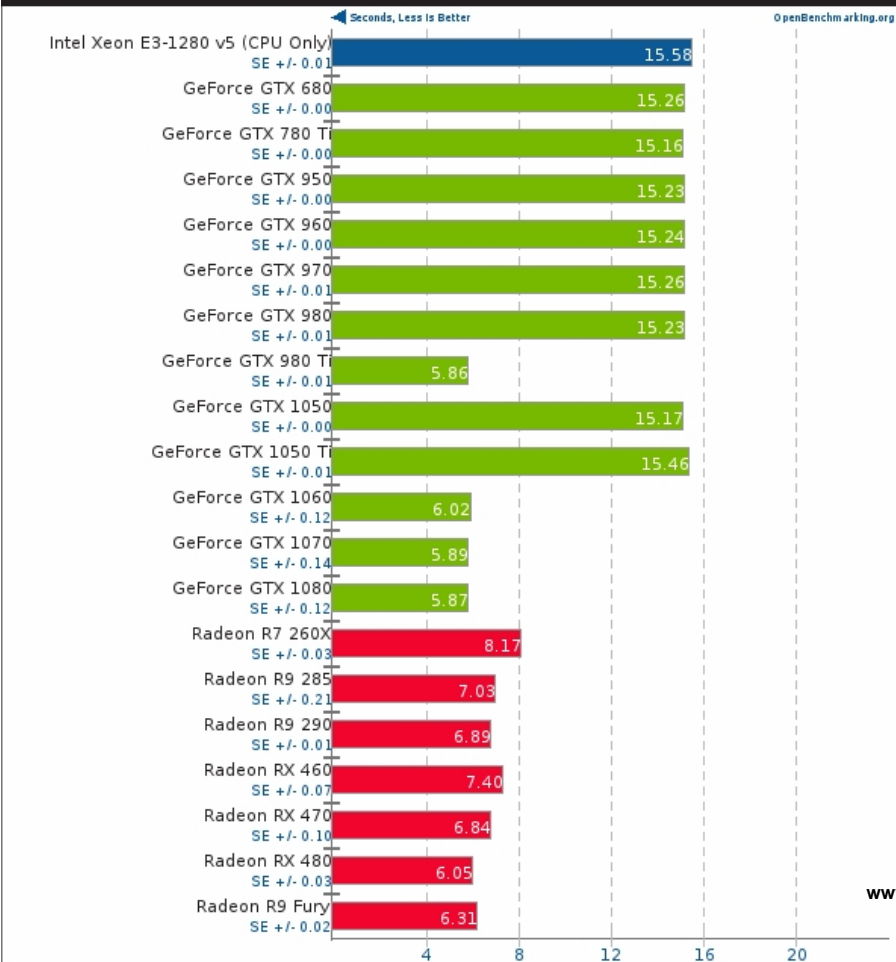
## Darktable v2.2.0~rc1

Test: Boat - Acceleration: OpenCL

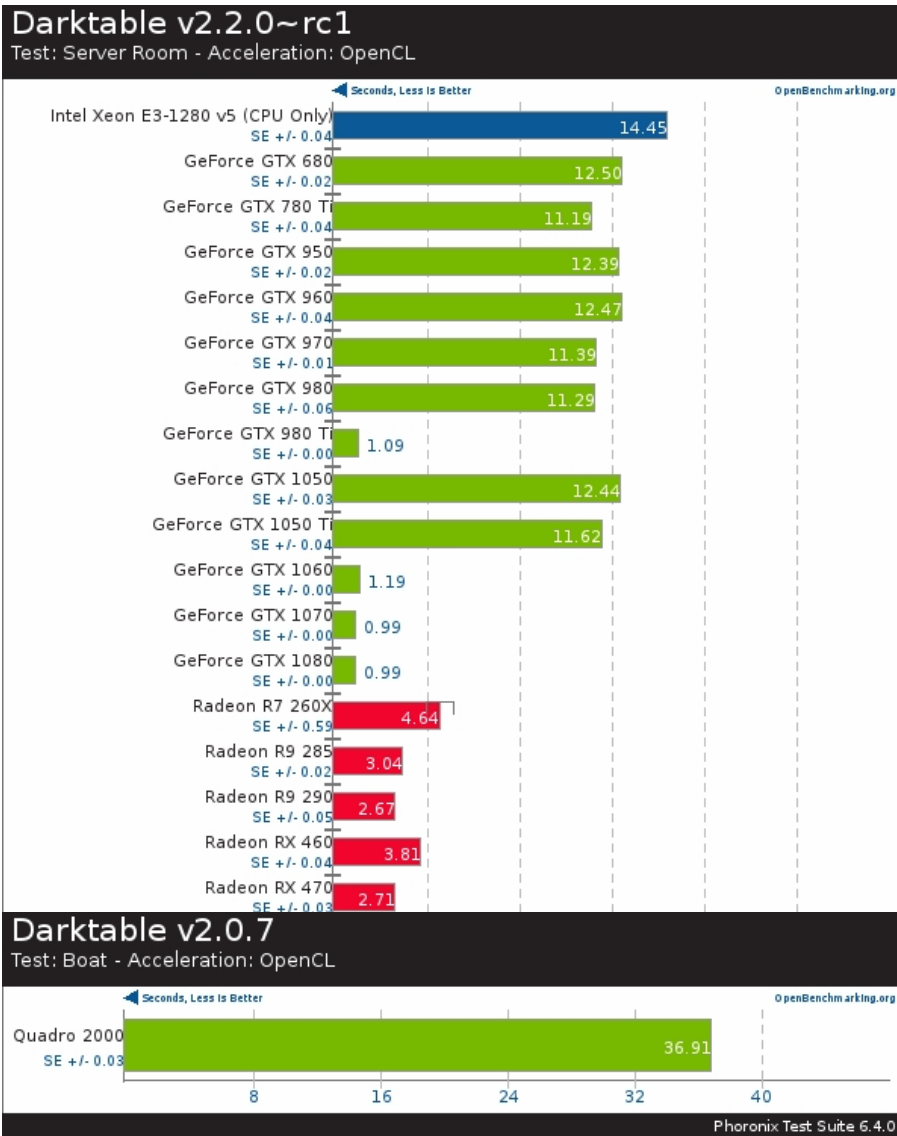


## Darktable v2.2.0~rc1

Test: Masskrug - Acceleration: OpenCL

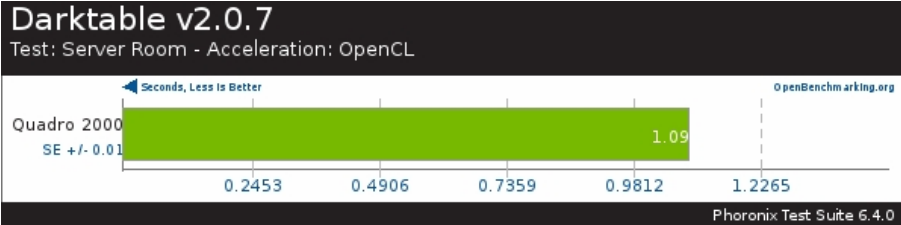
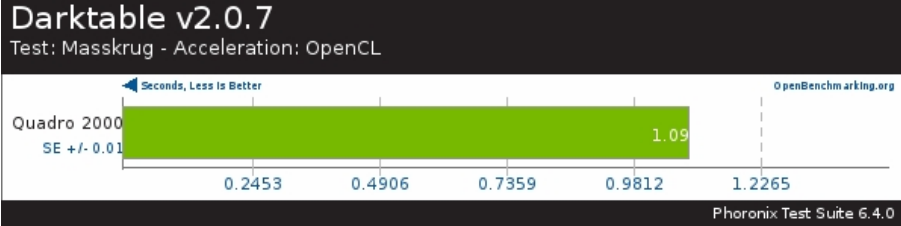


# DarkTable Testing





# DarkTable Testing



## DarkTable Testing