

darktable - Bug #12353

Thumbnail and export artifacts with OpenCL and Radeon HD7870

10/06/2018 01:42 PM - Matthias Fetzter

Status:	New	Start date:	10/06/2018
Priority:	Low	Due date:	
Assignee:		% Done:	0%
Category:	OpenCL	Estimated time:	0.00 hour
Target version:			
Affected Version:	2.4.4	bitness:	64-bit
System:	Debian	hardware architecture:	amd64/x86

Description

I've had quite a few problems getting OpenCL to work on my system. Have a look [here](#).

At the moment I am using proprietary driver 18.20 OpenCL only and open source radeon driver for the rest.

Using "export GPU_FORCE_64BIT_PTR=1" OpenCL gets detected by darktable and is used as well but produces serious artifacts in thumbnails and exported images (see attached files).

Artifacts are even produced with all modules disabled in darkroom. With OpenCL disabled everything works as expected.

Is there anything I can try to get rid of those artifacts other than disabling OpenCL?

Thank you in advance!

History

#1 - 10/19/2018 02:23 PM - Matthias Fetzter

Unfortunately the problem persists on Manjaro with proprietary driver version 18.30.

#2 - 11/06/2018 03:08 PM - Simon Raffener

I'm using Arch Linux with AMDGPU-PRO 18.30 on a Radeon RX570 and there are no issues, so at least this doesn't seem to be a generic AMD/OpenCL issue.

Any ideas why you have to set GPU_FORCE_64BIT_PTR=1 to get darktable to see the card? This parameter only seems to tell the GPU driver to use 64 bit pointers so an application can allocate the full video memory if you have 4 GB or more, but your card only has 2 GB of VRAM. darktable can work with 2GB of VRAM (at least it did so for a year with my GTX950), so I wonder why it doesn't offer the card without the environment variable?

Files

darktable_openc1_thumbnail_2018-10-06 12-14-23.png	90.3 KB	10/06/2018	Matthias Fetzter
darktable_openc1.log	29 KB	10/06/2018	Matthias Fetzter
darktable.rc	21.1 KB	10/06/2018	Matthias Fetzter
DSC_8198.jpg	786 KB	10/06/2018	Matthias Fetzter
DSC_8198.NEF	11.2 MB	10/06/2018	Matthias Fetzter