

darktable - Bug #12040

Fix crashes when some external APIs fail

02/28/2018 04:33 PM - Zhouyang Jia

Status:	Fixed	Start date:	02/28/2018
Priority:	Low	Due date:	
Assignee:		% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	2.6.0	bitness:	64-bit
Affected Version:	2.4.1	hardware architecture:	amd64/x86
System:	all		

Description

Hi,

I'm a PhD student. I analyzed the darktable source code and found some potential API bugs that may cause crashes.

These crashes are mainly caused by insufficient error handling of API functions like `g_dir_open`, `curl_easy_perform` or `pthread_create`.

I think it's unsafe to assume the library function would be correct. It would be better if we could handle the error properly.

Attached please find the patch against version darktable-2.4.1. Hopefully, it can solve these potential bugs.

Best,
Zhouyang

Associated revisions

Revision 052649e9 - 02/28/2018 05:00 PM - Tobias Ellinghaus

Fix #12040: Add some error handling

Thank you Zhouyang Jia for finding these and proposing the patch.

Revision e2237e2e - 03/02/2018 06:51 PM - Tobias Ellinghaus

Fix #12040: Add some error handling

Thank you Zhouyang Jia for finding these and proposing the patch.

(cherry picked from commit 052649e9e7a708c84ca85cc68115ec7e0e30e58a)

History

#1 - 02/28/2018 04:43 PM - Tobias Ellinghaus

In general I agree, more error handling won't hurt.

About your changes, the result of `g_dir_open` in `film.c` is already checked later, and `glib` functions have their own error handling and don't use `errno`. The change to `rawspeed` needs to be proposed upstream, we are just bundling that lib. I'll manually merge the changes. Thank you.

#2 - 02/28/2018 05:32 PM - Tobias Ellinghaus

- % Done changed from 0 to 100

- Status changed from New to Fixed

Applied in changeset [darktable|052649e9e7a708c84ca85cc68115ec7e0e30e58a](#).

#3 - 04/11/2018 08:56 PM - Roman Lebedev

- Target version set to 2.6.0

Files

api_bugs_darktable-2.4.1.patch	2.62 KB	02/28/2018	Zhouyang Jia
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