

darktable - Bug #12350

Struggling to build dt for windows

10/03/2018 05:04 PM - pass 712

Status:	New	Start date:	10/03/2018
Priority:	Low	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Affected Version:	git master branch	bitness:	64-bit
System:	Windows	hardware architecture:	amd64/x86

Description

Hi everyone,

following the instructions in build.txt I tried to build dt for windows using MSYS2. I managed to set up MSYS2, libs and so on but failed to build darktable via

```
$ cmake -G "MSYS Makefiles" -DCMAKE_BUILD_TYPE=Release -DCMAKE_INSTALL_PREFIX=/opt/darktable ..
```

cmake runs until it complains that it can't find GTK3:

```
:
:
-- Found Glib
-- Checking for module 'gtk+-3.0'
-- No package 'gtk+-3.0' found
CMake Error at C:/msys64/mingw64/share/cmake-3.12/Modules/FindPackageHandleStandardArgs.cmake:137 (message):
Could NOT find GTK3 (missing: GTK3_INCLUDE_DIRS GTK3_LIBRARIES) (Required
is at least version "3.14")
Call Stack (most recent call first):
C:/msys64/mingw64/share/cmake-3.12/Modules/FindPackageHandleStandardArgs.cmake:378 (_FPHSA_FAILURE_MESSAGE)
cmake/modules/FindGTK3.cmake:58 (FIND_PACKAGE_HANDLE_STANDARD_ARGS)
src/CMakeLists.txt:252 (find_package)
:
:
```

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This is what pacman says:

```
$ pacman -Ss gtk3
mingw32/mingw-w64-i686-gtk3 3.24.1-1 [Installiert]
GObject-based multi-platform GUI toolkit (v3) (mingw-w64)
mingw32/mingw-w64-i686-gtkmm3 3.22.2-1
C++ bindings for gtk3 (mingw-w64)
mingw32/mingw-w64-i686-spice-gtk 0.33-1
GTK3 widget for SPICE clients (mingw-w64)
mingw32/mingw-w64-i686-webkitgtk3 2.4.11-6
GTK+ Web content engine library (mingw-w64)
mingw64/mingw-w64-x86_64-gtk3 3.24.1-1 [Installiert]
GObject-based multi-platform GUI toolkit (v3) (mingw-w64)
mingw64/mingw-w64-x86_64-gtkmm3 3.22.2-1 [Installiert]
C++ bindings for gtk3 (mingw-w64)
mingw64/mingw-w64-x86_64-spice-gtk 0.35-1 [Installiert]
GTK3 widget for SPICE clients (mingw-w64)
mingw64/mingw-w64-x86_64-webkitgtk3 2.4.11-6
GTK+ Web content engine library (mingw-w64)
```

=====

I tried to skip GTK3 and cmake stops again at lensfun:

```
:  
:  
-- Found Glib  
-- Checking for one of the modules 'libsoup-2.4;libsoup2'  
-- Checking for one of the modules 'libsoup-2.2;libsoup2'  
CMake Error at C:/msys64/mingw64/share/cmake-3.12/Modules/FindPackageHandleStandardArgs.cmake:137 (message):  
Could NOT find LENSFUN (missing: LENSFUN_INCLUDE_DIR)  
Call Stack (most recent call first):  
C:/msys64/mingw64/share/cmake-3.12/Modules/FindPackageHandleStandardArgs.cmake:378 (_FPHSA_FAILURE_MESSAGE)  
cmake/modules/FindLensFun.cmake:37 (find_package_handle_standard_args)  
src/CMakeLists.txt:302 (find_package)  
:  
:  
:
```

=====

... which is installed, too:

```
$ pacman -Ss lensfun  
mingw32/mingw-w64-i686-lensfun 0.3.95-1  
Database of photographic lenses and a library that allows advanced access to the database (mingw-w64)  
mingw64/mingw-w64-x86_64-lensfun 0.3.95-1 [Installiert]  
Database of photographic lenses and a library that allows advanced access to the database (mingw-w64)
```

=====

It seems as if all (mingw-w64-x86_64-)prefixed packages can't be found. Am I missing something ? Maybe an additional path information ?

Logfiles for the latter test (lensfun) are added below.

Hoping for help
Jürgen

History

#1 - 12/08/2018 07:12 PM - Peter Budai

You need to downgrade lensfun library, as the 3.95 is not compatible with darktable
Download the prior version of lensfun:
http://repo.msys2.org/mingw/x86_64/mingw-w64-x86_64-lensfun-0.3.2-4-any.pkg.tar.xz

And install with:
pacman -U mingw-w64-x86_64-lensfun-0.3.2-4-any.pkg.tar.xz

Then do a clean build

#2 - 12/09/2018 09:54 PM - Peter Budai

And one more thing: Jürgen, which shell are you using: MSYS2 or MINGW64 or MINGW32?

#3 - 12/10/2018 06:51 PM - pass 712

- File CMakeOutput.log added
- File CMakeError.log added

Hi Peter,
thanks for your help!

I downgraded lensfun and started build from scratch (original CMakeList.txt) but as it seems nothing has changed.

I'm using the msys2-Shell.

Logfiles are added.

Jürgen

#4 - 12/20/2018 09:16 AM - Peter Budai

Jurgen, you should use the MINGW64 shell.

You use the MSYS2 shell for installing and updating packages.
You use MINGW64 to build native Windows applications.

I'll update the instruction to be clear.

#5 - 12/21/2018 08:58 PM - pass 712

- File *darktable_bt_1Y41TZ.txt* added

Hi Peter,

cool, build is running now ! Thanks for the information.

There is one issue left: cmake stopped in the last step (cmake --build . --target install) with this error:

:
:
:

CMake Error at src/cmake_install.cmake:150 (file):
file INSTALL cannot find
"C:/msys64/mingw64/bin/./lib/GraphicsMagick-1.3.29/modules-Q8/coders".
Call Stack (most recent call first):
cmake_install.cmake:38 (include)

make: *** [Makefile:86: install] Fehler 1
:
:
:

I checked and found GraphicsMagick-1.3.30 installed on my computer. I then changed line 150 in cmake_install.cmake to version 1.3.30 and started cmake again. Cmake completed without errors. I could start darktable from the mingw64-shell, saw the lighttable view but then it crashed. I included the backtrace. Is it due to the incorrect version ?

Thanks for your patience.
Jürgen

#6 - 12/22/2018 10:43 AM - Peter Budai

Jurgen, the hard-coded Graphicsmagick version number has been fixed for a longer time ago in October:
<https://github.com/darktable-org/darktable/pull/1769>

Pls get the latest source, and also update your MSYS2 system with pacman -Syu
Also make a clean build (aka remove everything from the build directory and start with cmake configure stage)

#7 - 01/20/2019 02:16 PM - pass 712

Hi Peter,

sorry for answering so late, was a bit busy in the meantime.
I found some time today, followed your instructions and was able to build succesfully - many thanks !

Ticket can be closed.

Greets Jürgen

Files

CMakeError.log	2.64 KB	10/03/2018	pass 712
CMakeOutput.log	15.5 KB	10/03/2018	pass 712
CMakeError.log	19.7 KB	12/10/2018	pass 712
CMakeOutput.log	240 KB	12/10/2018	pass 712
darktable_bt_1Y41TZ.txt	9.08 KB	12/21/2018	pass 712