

Public Support - Support Request #9863

Loading external DLLs on generating plugindescription not working properly

2020-01-16 09:56 - hidden

Status:	Closed		
Priority:	Normal		
Category:			
Customer:	AUDI	Product Issue Numbers:	<a href="https://www.cip.audi.de/jira/browse/ACORE-10339">https://www.cip.audi.de/jira/browse/ACORE-10339</a>
Department:	EF	Affected Products:	ADTF 3.6.2
Requester's Priority:	Normal	Platform:	Windows 10 64bit
Support Level:	3rd Level	Topic:	ADTF::PluginDescription
Resolution:	Solved Issue	FAQ Links:	
<b>Description</b> <p>trying to generate the pd for a filter with cmake macro "adtf_create_plugindescription" fails, if the filter needs external dlls to load. DEPENDENT_DYNAMIC_LIBS argument seems broken in line adtfmacros.cmake:462 set(DYN_LIB_ARGS \${DYN_LIB_ARGS} --dynamic-link \${DYN_LIB_RESOLVED_PATH})</p> <p>set command misses quotation marks. this also seems broken more set commands within the file.</p> <p>it is also very unconvient, that every single dll must be added, which might be dozens. it would be much better, if it is possible the expand the path variable with custom search dirs for external dlls, e.g. with env command within the cmake_custom_target directive at line adtfmacros.cmake:486</p> <b>Resolution</b> <p>The presumed defect resolved itself and a product issue for a related feature request has been opened.</p>			

History

#1 - 2020-01-16 11:59 - hidden

- Status changed from New to In Progress

#3 - 2020-01-20 13:30 - hidden

Hi Falk,

Thanks for your feedback.

I had a look at the macro itself as well as the command line it generates for different DEPENDENT\_DYNAMIC\_LIBS - both appear sane. Quotes around library paths containing spaces are added by CMake as expected.

For reference, this is the macro invocation I used:

```
adtf_create_plugindescription(  
  TARGET  
    ${EXAMPLE_TARGETNAME}  
  PLUGIN_SUBDIR  
    "src/examples/bin"  
  DEPENDENT_DYNAMIC_LIBS  
    "/home/ww/somefile.so"  
    "/home/ww/some file with spaces.so"  
    "relative.so"  
)
```

This is the command line generated by cmake:

```
C:\dev\adtf\master\package\bin\debug\adtf_plugin_description_generator.exe  
--plugin C:/dev/adtf/master/package/src/examples/bin/debug/demo_custom_stream_type_filters.adtfplugin  
--output C:/dev/adtf/master/debug/build/src/examples/src/adtf/filters/standard_filters/custom_stream_type/$(Configuration)/demo_custom_stream_type_filters.plugindescription  
--dynamic-link C:/home/ww/somefile.so  
--dynamic-link "C:/home/ww/some file with spaces.so"  
--dynamic-link C:/dev/adtf/master/source/src/examples/src/adtf/filters/standard_filters/custom_stream_type/rel
```

Can you provide more information on your issue, specifically the following snippets:

- the invocation of the macro
- the generated command line (Located in the properties of `<YourSolutuion>/<YourProject>_pdgen/CMake Rules/<YourProject>.plugindescription.rule`)
- any error message you encounter

Your proposal to support search paths would indeed increase convenience and we will look into it.

Extending the PATH variable on Windows seems reasonable.

Linux may be trickier due to our current reliance on **RPATH** for resolving Qt dependencies which prevents us from using **LD\_LIBRARY\_PATH** to implement this feature.

Regards

Wolfgang

#### #4 - 2020-01-20 13:47 - hidden

Hi,

retrieved it and command line looks ok now. would be nice to get the path feature soon. thanks, problem no longer appears.

#### #5 - 2020-01-20 14:21 - hidden

- Description updated
- Status changed from In Progress to To Be Closed
- Topic set to ADTF::PluginDescription
- Resolution set to Solved Issue
- Product Issue Numbers set to <https://www.cip.audi.de/jira/browse/ACORE-10339>
- Platform Windows 10 64bit added

#### #8 - 2020-01-29 13:35 - hidden

- Subject changed from *cMake PDGEN - loading external DLLs on generating plugindescription not working properly* to *Loading external DLLs on generating plugindescription not working properly*
- Status changed from To Be Closed to Closed
- Support Level changed from 2nd Level to 3rd Level

#### #9 - 2020-03-23 08:26 - hidden

- Project changed from 11 to Public Support
- Private changed from Yes to No