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Build instructions for Windows

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Hugues Delorme edited this page on Mar 4 · 2 revisions

Dependencies

The following tools are required:

- [Git for Windows](#)
- [CMake](#)
- C++ 17 compiler(eg [Visual Studio](#))

The following libraries are required:

- [Qt](#) ≥ 5.14
Note: Qt5 and Qt6 are both supported
- [OpenCascade](#) ≥ 7.3.0

The following libraries are optional:

- Assimp ≥ 5.0
Assimp provides support of more mesh formats in Mayo(eg FBX, Collada, 3MF, ...)
See [Assimp Install instructions](#)

Preparation

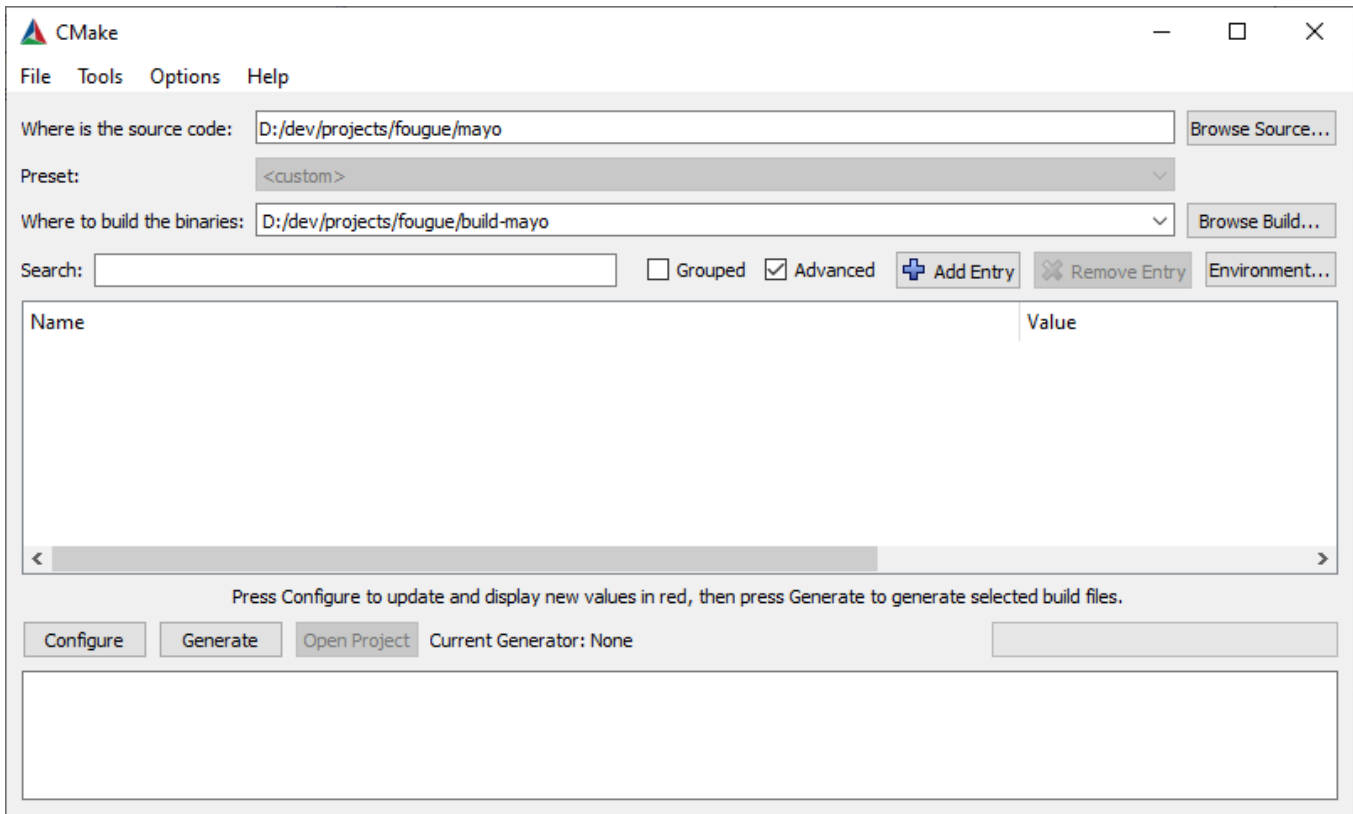
Get latest Mayo source code from GitHub repository(command prompt):

```
git clone https://github.com/fougue/mayo.git
mkdir build-mayo
```

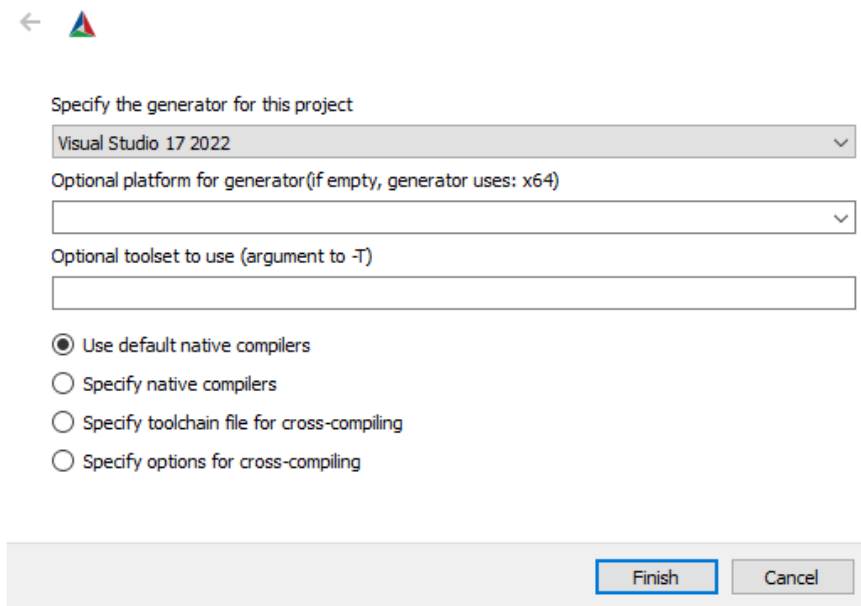


Configuration process

On Windows the recommendation is to use *cmake-gui*, the cross-platform GUI tool provided by CMake:



Once Mayo source and build directories are entered then click on the **Configure** button to start configuration process. First step is to select the cmake generator further used to build Mayo. In this example "*Visual Studio 2022*" is selected:



Click on **Finish** button. CMake then runs the first pass of configuration process and should report an error for Qt not being found:

Name	Value
CMAKE_STATIC_LINKER_FLAGS_DEBUG	
CMAKE_STATIC_LINKER_FLAGS_MINSIZEREL	
CMAKE_STATIC_LINKER_FLAGS_RELEASE	
CMAKE_STATIC_LINKER_FLAGS_RELWITHDEBINFO	
CMAKE_VERBOSE_MAKEFILE	<input type="checkbox"/>
GIT_EXECUTABLE	D:/dev/tools/Git/cmd/git.exe
Mayo_BuildPluginAssimp	<input type="checkbox"/>
Mayo_BuildTests	<input type="checkbox"/>
QT_DIR	QT_DIR-NOTFOUND

Press Configure to update and display new values in red, then press Generate to generate selected build files.

Current Generator: Visual Studio 17 2022

```

GIT_EXECUTABLE=D:/dev/tools/Git/cmd/git.exe
CMake Error at CMakeLists.txt:76 (find_package):
  Could not find a package configuration file provided by "QT" with any of
  the following names:
  
```

Specify a value for the `QT_DIR` variable which is the path to Qt cmake config files:

Name	Value
CMAKE_STATIC_LINKER_FLAGS_DEBUG	
CMAKE_STATIC_LINKER_FLAGS_MINSIZEREL	
CMAKE_STATIC_LINKER_FLAGS_RELEASE	
CMAKE_STATIC_LINKER_FLAGS_RELWITHDEBINFO	
CMAKE_VERBOSE_MAKEFILE	<input type="checkbox"/>
GIT_EXECUTABLE	D:/dev/tools/Git/cmd/git.exe
Mayo_BuildPluginAssimp	<input type="checkbox"/>
Mayo_BuildTests	<input type="checkbox"/>
QT_DIR	D:/dev/libs/Qt/6.5.2/msvc2019_64/lib/cmake/Qt6

Press Configure to update and display new values in red, then press Generate to generate selected build files.

Current Generator: Visual Studio 17 2022

Click on **Configure** button. CMake runs the configuration process again, this time an error for OpenCascade location is reported:

Name	Value
CMAKE_INSTALL_RUNSTATEDIR	
CMAKE_INSTALL_SBINDIR	sbin
CMAKE_INSTALL_SHAREDSTATEDIR	com
CMAKE_INSTALL_SYSCONFDIR	etc
OpenCASCADE_DIR	
Qt6CoreTools_DIR	D:/dev/libs/Qt/6.5.2/msvc2019_64/lib/cmake/Qt6CoreTools
Qt6Core_DIR	D:/dev/libs/Qt/6.5.2/msvc2019_64/lib/cmake/Qt6Core
Qt6EntryPointPrivate_DIR	D:/dev/libs/Qt/6.5.2/msvc2019_64/lib/cmake/Qt6EntryPointPrivate
Qt6GuiTools_DIR	D:/dev/libs/Qt/6.5.2/msvc2019_64/lib/cmake/Qt6GuiTools

Press Configure to update and display new values in red, then press Generate to generate selected build files.

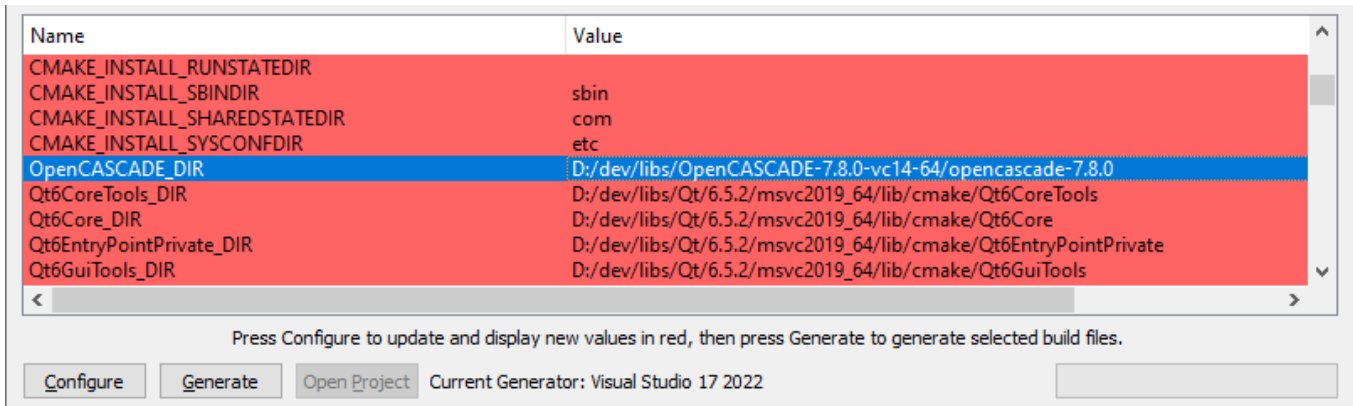
Current Generator: Visual Studio 17 2022

```

CMake Warning at CMakeLists.txt:351 (message):
  OpenCASCADE not found from this location OpenCASCADE_DIR=''

Configuring incomplete, errors occurred!
See also "D:/dev/projects/fougue/build-mayo/CMakeFiles/CMakeOutput.log".
  
```

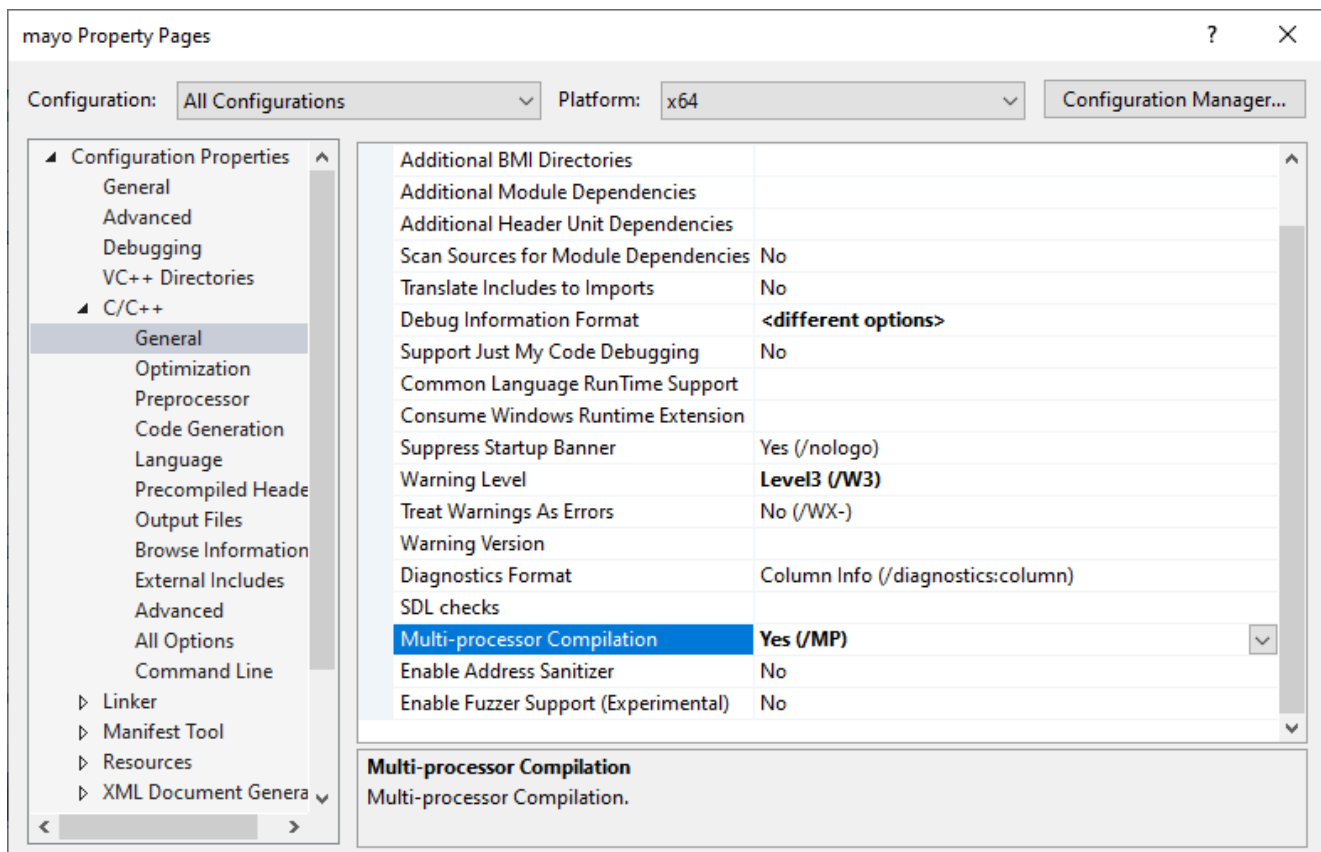
Specify a value for the `OpenCASCADE_DIR` variable. On Windows this is the base path to OpenCascade(the folder containing file `env.bat`):



Click on **Configure** button, CMake now can finish the configuration process(there should be no error)

Click on **Generate** button so CMake creates(generates) the files to build Mayo. If some "Visual Studio" generator was selected then simply click on **Open Project** button to open `mayo.sln` in Visual Studio.

Make sure in Visual Studio to enable the "Multi-processor Compilation" flag for the mayo project:



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