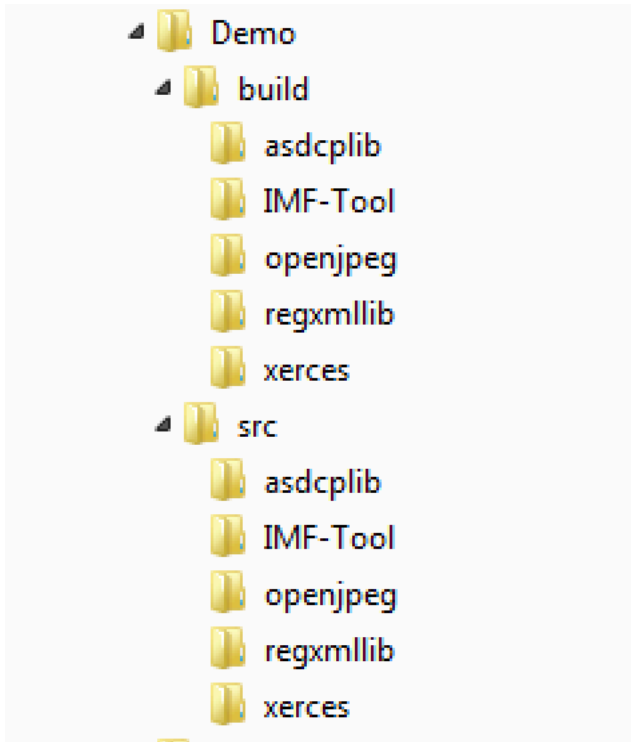


Building IMF Tool under Windows

Wolfgang Ruppel, 2017-11-07

Preparations

Create directories for asdcplib, regxmllib, openjpeg, xerces and IMF Tool:



Prerequisites

Visual Studio:

Install Visual Studio 2015. These instructions will likely also work with other versions of Visual Studio.

Qt5

Download <http://download.qt.io/archive/qt/5.7/5.7.0/>

It is recommended to install Qt 5.7.

Run installer, select to install the 64 bit version for VS 2015 only, deselect all other options. (saves disk space)

After the installation, verify the following directory is present on the file system:

C:\Qt5.7\5.7\msvc2015_64

Cmake:

Download: <https://cmake.org/download/>

A binary installer is provided for Windows (win64-x64).

Qt5

Download Qt 5.7.2 (64 bit) from

http://download.qt.io/archive/qt/5.7/5.7.1/qt-opensource-windows-x86-msvc2015_64-5.7.1.exe

Run installer, deselect all but Win64 binaries. (saves disk space)

NOTE: Qt 5.9 is not supported yet, there are issues with full screen mode playback.

NOTE: A Qt account is required to install the Qt binaries.

OpenSSL Windows 64

Download binaries from

https://slproweb.com/download/Win64OpenSSL-1_0_2L.exe

(Win 64 bit)

Execute the installer. OpenSSL is required for building asdcplib.

Downloading and building Xerces

Download source code from

<http://archive.apache.org/dist/xerces/c/3/sources/xerces-c-3.1.3.zip>

Unpack into Demo/src/xerces

NOTE: Xerces 3.2.0 is not tested and supported yet.

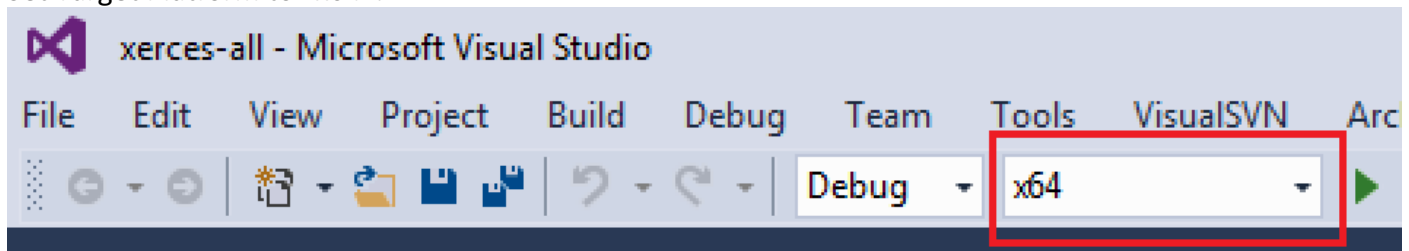
Open File

\Demo\src\xerces\xerces-c-3.1.3\projects\Win32\VC12\xerces-all\xerces-all.sln

using Right-Click an "Open with.." Visual Studio 2015

In Visual Studio 2015:

Set Target Platform to "x64":



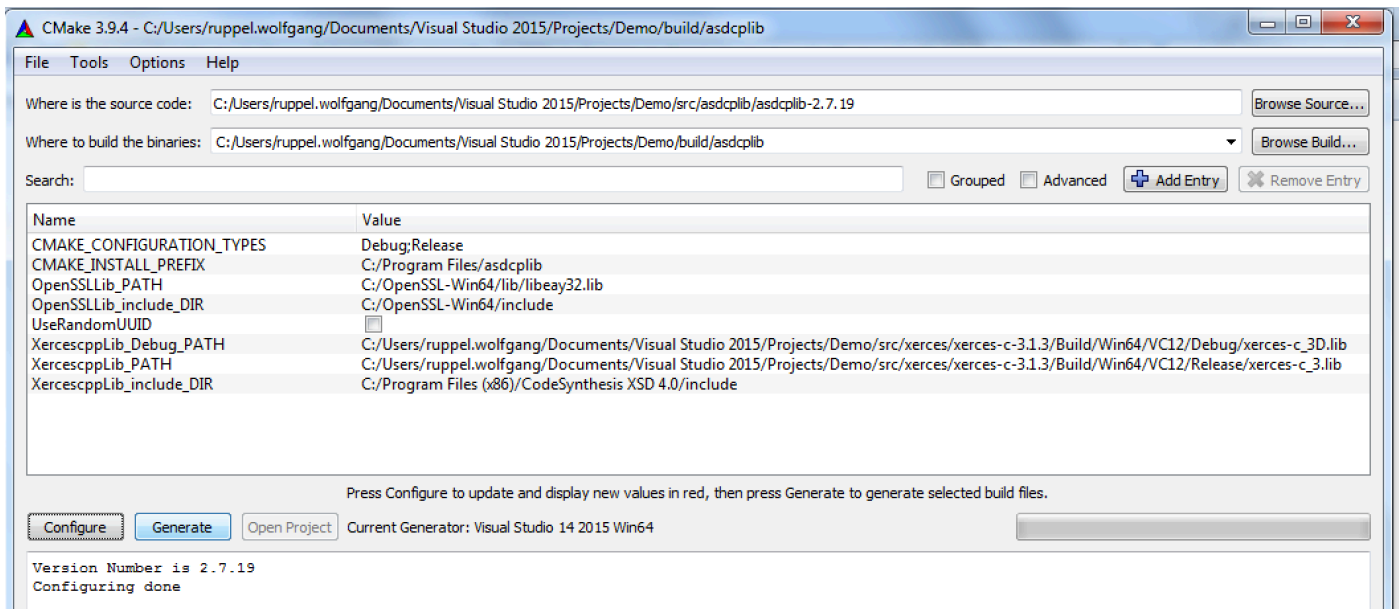
Build Project "all" in both Debug and Release mode

Note: The Output will go to \Demo\src\xerces\xerces-c-3.1.3\Build\Win64\VC12

Downloading and building asdcplib

Download asdcplib-2.7.19.tar.gz, unpack into Demo/src/asdcplib.

Use CMake to create a Visual Studio 14 2015 Win64 Solution File:



Open VS 2015 Solution File

Demo\build\asdcplib\asdcplib.sln

Build Project "ALL_BUILD" in Debug and Release mode

MANUAL STEP REQUIRED:

Create folder Demo\build\asdcplib\src\CMakeFiles\Export\lib

Copy these files into the Export\lib folder:

Demo\build\asdcplib\src\Debug*.lib

Demo\build\asdcplib\src\Release*.lib

(6 files in total)

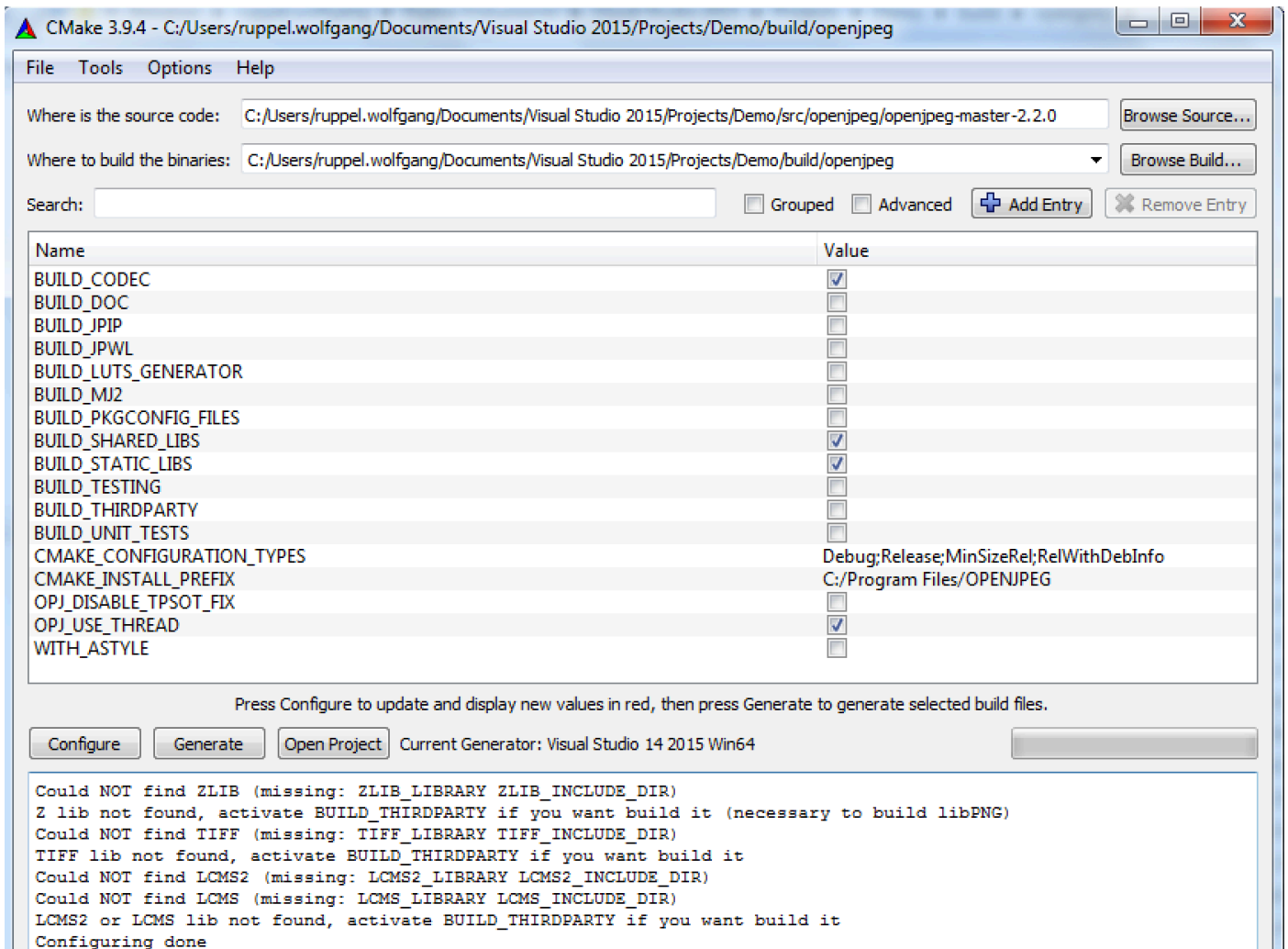
Downloading and building openjpeg

Download OpenJPEG from <https://github.com/uclouvain/openjpeg/>

Note: OpenJPEG 2.2 (with multi-threading support) is required!

Unpack into Demo/src/openjpeg.

Use CMake to create a Visual Studio 14 2015 Win64 Solution File:



Build Project “ALL_BUILD” in Release mode ONLY.

This project needs to be installed in addition:

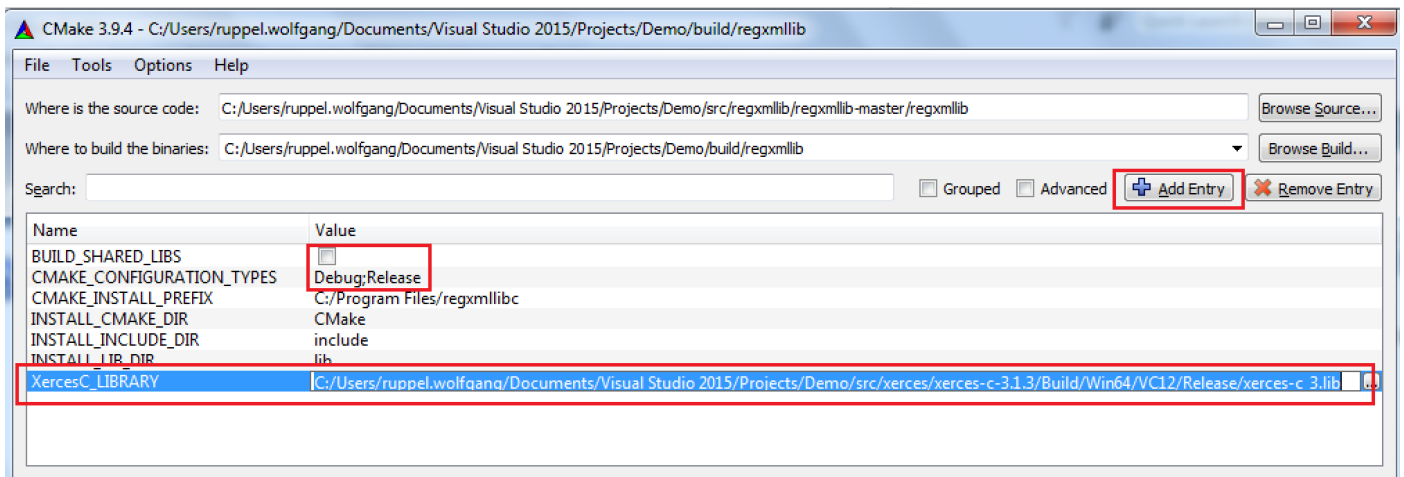
- Create folder C:/Program Files/OPENJPEG
- Open Properties of folder OPENJPEG, add current user with read/write access (full permissions).
- Build project “INSTALL”, make sure “Release” mode is selected.
- Verify that target files have been installed in C:/Program Files/OPENJPEG

Downloading and building regxmlibc

Download tar or zip archive from

<https://github.com/IMFTTool/regxmlib/tree/FEATURE-regxmlibc>

Configure, build and install using CMake:



The Key XercesC_LIBRARY (Type FILEPATH) needs to be added manually.

The Value of XercesC_LIBRARY should point to xerces-c_3.lib

Make sure BUILD_SHARED_LIBS is deselected.

Open Solution file, build project "BUILD_ALL" for both Release and Debug version.

This project needs to be installed in addition:

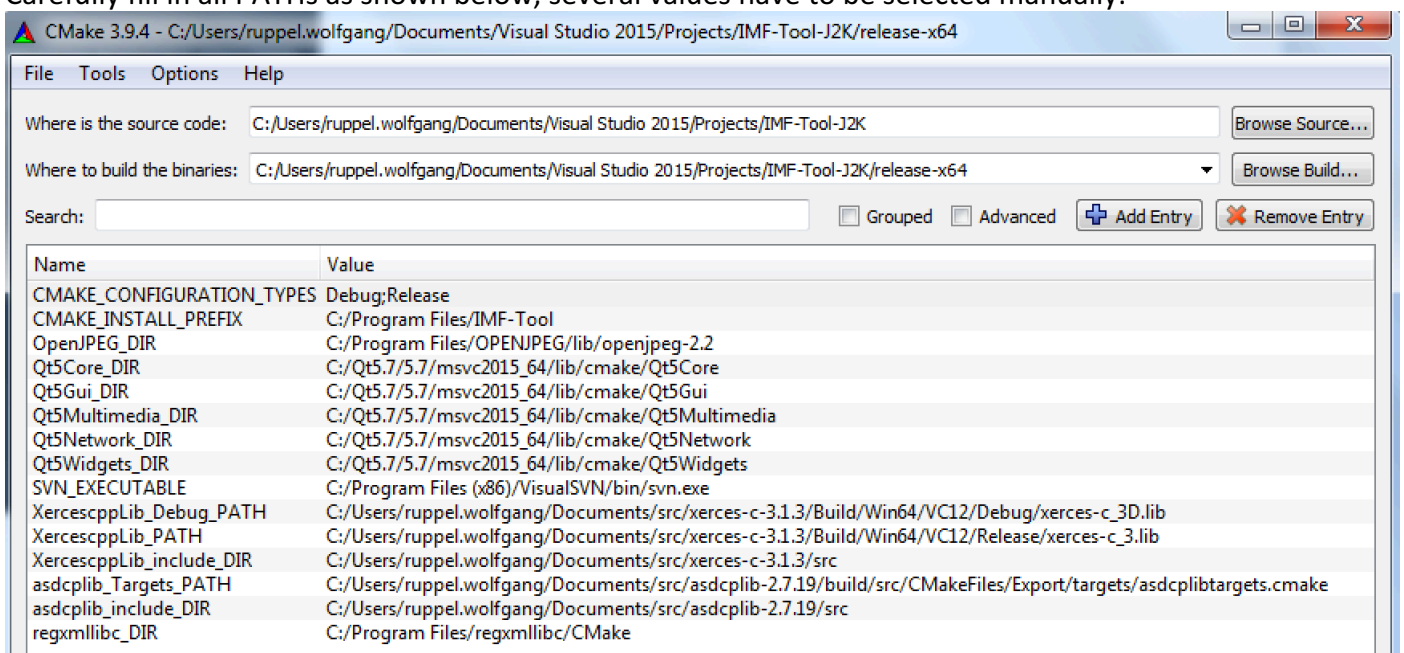
- Create folder
C:/Program Files/regxmllibc
- Open Properties of folder regxmllibc, add current user with read/write access (full permissions).
- Build project "INSTALL", for both "Release" and "Debug" mode.
- Verify that target files have been installed in C:/Program Files/regxmllibc

Installing and downloading IMF Tool

Download or clone IMF Tool from <http://github.com/IMFTool/IMFTool>













Configure and build using CMake:

Carefully fill in all PATHs as shown below, several values have to be selected manually:



After building, IMF Tool will complain about missing DLL libraries.

Locate the respective libraries and copy them into the folder where IMFTool.exe is located, e.g.:

Name	
	IMF-Tool.exe
	openjp2.dll
	Qt5Cored.dll
	Qt5Guid.dll
	Qt5Multimediad.dll
	Qt5Networkd.dll
	Qt5Widgets.dll
	xerces-c_3_1.dll
	xerces-c_3_1D.dll
	IMF-Tool.ilc
	IMF-Tool.pdb
	IMF-Tool.log

Due to a bug in the build system, the Debug version of IMF Tool will also require the Xerces Release DLL.