

Setup the openPASS development environment

1 System requirements

- Windows 7x64
- administrator privileges

2 Setup Qt

1. Install Qt 5.6.2 with MinGW 4.9.2 32bit from:
<https://www.qt.io/download/>

Note: During the installation process MinGW 4.9.2 needs to be chosen as an additional component for installation.

2. Set environment variables (for Windows):
 - a. Go to
"Control Panel\System"
 - b. Navigate to
"Advanced system settings > Advanced > Environment Variables > System variables"
 - c. Edit the variable "Path" and add at the end:
C:\Qt\Qt5.6.2\Tools\mingw492_32\bin;c:\Qt\Qt5.6.2\5.6\mingw49_32\bin;

3 Setup source code

1. Extract the source code to "c:\OpenPASS\Source"
(path must be short to avoid compilation and execution issues)
2. Open "c:\OpenPASS\Source\Global.pro" and define binary output folders
(DIR_DEBUG and DIR_RELEASE)
3. Delete all "*.pro.user" files, if any found
4. Start Qt Creator
5. Open "OpenPass_Basic.pro"
6. In Qt Creator (re-)build the project "OpenPass_Basic"
(executables and dynamic libraries will be created and placed in the folder defined in 3.2)

4 Run simulation

1. Place following files (found in the "Basic" subfolder in "Configurations") in the binary output directory
(The folder defined in 3.2 for DIR_DEBUG):
 - a. frameworkConfiguration.xml
 - b. runConfiguration.xml
 - c. sceneryConfiguration.xml
 - d. systemConfiguration.xml OR agentConfiguration.xml
2. Execute "OpenPassMaster.exe"
3. Simulation results are written to comma-separated files *.csv

Note: Also the "OpenPass_PCM.pro" project can be opened and built (3.5 & 3.6). In this case, the configuration files for the PCM cases need to be used (4.1) as they contain PCM data from the GIDAS database.