BTestBox

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Maintenance Manual

January 2017

1 Introduction

This document is the Maintenance Manual for the tool BTestBox. It describes how to install the tool.

2 Generating the Software

The software is divided in two part, the interface is made with Qt in c++ and the logic is made in Python. While running with Atelier-B, the interface is called first and then it execute the executable created in Python.

The procedure to produce the software is the following:

1. Generate the executable from Python.

2. Generate the executable from Qt.

3. Copy both executable to the binary folder of Atelier-B.

4. Add the etool file to Atelier-B extensions folder.

The following software are needed to reproduce the software:

1. Python 3.3. Found in: https://www.python.org/

2. py2exe. Found in: https://sourceforge.net/p/py2exe/svn/HEAD/tree/trunk/py2exe-3/

3. Qt. Found in: https://www.qt.io/

4. make. For windows download it with MSYS. https://sourceforge.net/projects/mingw/files/

2.1 Generate the executable from Python

Python 3.3 is demanded to run the code.

In order to create an executable from Python code the module py2exe for Python 3.3 is essential.

With it run the python command with:

py -m py2exe.build_exe btestbox.py

This command create the folder dist and inside the folder will be all the files needed to run the python executable.

2.2 Generate the executable from Qt

The interface was created using the Qt 5.5 and for compiling it in a executable run the following commands:

1. Go to the folder that has the project BTestBoxInterface.pro: cd /your_project_folder/

2. qmake -project

3. qmake

4. make

2.3 Copy both executable to the binary folder of Atelier-B

Now, is necessary to copy the files to Atelier-B binary folder.

- Copy all the files inside the dist folder created with generating Python executable to the binary folder, all are necessary since some are python dll.

- Copy the BTestBoxInterface.exe created by the make of Qt. Default is on the release folder created when the command qmake -project was executed.

2.4 Add the etool file to Atelier-B extensions folder

Add the *btestbox.etool* file inside the atelier b extension folder (ãtelierB extensions).

3 Deploying BTestBox through the zip file

To install BTestBox using the files in the zip, just follow this two easy steps:

1. Copy the etool extension file inside the extensions folder of Atelier-B.

2. Copy the files in the bbin folder inside the folder: Windows: bbin/win32 for windows users.

   And you are able to use BTestBox with Atelier-B.