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For Building Mantis:

1. Open Qt Creator. Select open project. Navigate to mantis.pro file (this is in src/commandline).
2. Push the hammer button to build the project. Once the progress bar is full and there are no red stop sign warnings, you are done. Close the project.
3. Go to src/Mantis_Qt_Creator_default_really_long_debug_folder_name/debug. Copy mantis.exe to the bin folder. You have now updated the executable.

For Building Mask Editor:

1. Open the project file maskEditor.pro (this is in src/maskEditor).
2. Push hammer or green play button. If you push the green play button, the mask editor will open when the build is done.
3. Go to src/maskEditor_Qt_Creator_default_really_long_debug_folder_name/debug. Copy maskEditor.exe to the bin folder. You have now updated the executable.

If you need to setup a new build environment (say on a new machine):

1. Go download a copy of Qt 4.8 from qt-project.org.
2. Look through the archives of qt-project.org and download Qt Creator.
3. You may have to tell Qt Creator where your Qt 4.8 install is in the preferences.
4. Open src/doc/readme/readme.pdf. Follow the instructions to install Qwt 6.0.1. Note: If your Mantis build is failing on not finding qwt_plot.h, you may need to change the build mode in Qt Creator from debug to release or vice versa.

To package an executable for distribution as binaries:

1. Put the exe generated in Qt Creator in a new folder.
2. Try to run the exe. It will fail because it can't find x.dll.
3. Go to your Qt install directory (on Windows, C:/Qt or something). Navigate to bin and copy the needed dll into your distribution folder. (bin may be under the Desktop folder if your Qt install has one.)   When asked for qwt.dll, that will be in the Qwt install directories.
4. Repeat steps 2 and 3 until your program starts.

To update the licensing agreement:

1. Open each file that is not a .ui or a .qrc. You will know which ones these are because they already have license agreements on them.
2. Replace the text between the top line "Copyright 2008-2014 Iowa State University" and "Author: blah blah blah" with the new license block.

To rebuild the documentation, you will have to install Doxygen, and I recommend the GUI Doxywizard for it. You probably won't need to do this often.