MiniBoard Installation (for MacOS)

Installation of MiniBoard for MacOS consists of two steps. First OpenSource LibUsb for MacOS is installed. Secondly the MiniBoard example applications and documentation is installed.

Step 1: LibUsb Installation

LibUsb is an OpenSource USB driver available for usage for commercial applications. The MiniBoard class library will make low level USB calls to LibUsb to implement the desired high level functions available through the MiniBoard API.

The LibUsb installation is contained within "libusb-0.1.12.tar.gz". Installation consists of the following:

a) One should first ensure that GNU g++ is available on the MacOS machine. This should be available if one has installed XTools. This will be needed during the installation.

b) Download from our site the tarred and zipped LibUSB file (`libusb-0.1.12.tar.gz`)

c) Copy this to the Desktop and untar it to create the LibUSB directory (`libusb-0.1.12/`)

d) Open a terminal shell and navigate to the new directory.
```
macos %> cd libusb-0.1.12
```

e) Run the configure script
```
macos %> ./configure
```

f) Run make to build LibUsb
```
macos %> make
```

g) Install LibUsb
```
macos %> sudo make install
```

At this point you should have installed LibUsb for MacOS and you are ready to install the MiniBoard examples and documentation.

Step 2: MiniBoard Examples and Documentation Installation

a) Documents and the example applications are all contained in MiniBoard_Installation_1.0.2.tar.gz. Untar this in some suitable place.

```
macos %> tar xvfz MiniBoard_Installation_1.0.6.tar.gz
```

b) Move to the created directory.

```
macos %> cd MiniBoard_Installation_1.0.6
```

c) You will see the following documents to read:

Readme.pdf
MiniBoardUserGuide_ver_Apr09.pdf
MiniBoardAPI_ver_Feb09.pdf
MiniBoardApplicationExamples_ver_Apr09.pdf

d) You will find the application examples in the Examples/ directory. Read **MiniBoardApplicationExamples_ver_Apr09.pdf** to learn about running these. The file structure should appear as below.

```
MiniBoard_Installation_1.0.6/
 ├── Examples/
 │     ├── GCC Examples/
 │     │      ├── common/
 │     │      │      ├── miniboard.h           ◄──── MiniBoard Header File
 │     │      │      ├── miniboard_class.h     ◄──── MiniBoard Class Header File
 │     │      │      └── miniboard_class.c     ◄──── MiniBoard Class C++ File
 │     │      ├── src/
 │     │      │      ├── IICCommandToolApplication.c   ◄──── Main Program (Example 1)
 │     │      │      └── ConfigurationExample.c          ◄──── Main Program (Example 2)
 │     │      └── scripts/
 │     │             ├── go_IICCommandToolApplication  ◄──── Compile Script for Application 1
 │     │             └── go_ConfigurationExample         ◄──── Compile Script for Application 2
 │     │
 │     └── Cocoa Examples/   ◄──── Xcode Cocoa Example here
 │
 ├── Readme.pdf
 ├── MiniBoardUserGuide_ver_Apr09.pdf
 ├── MiniBoardAPI_ver_Feb09.pdf
 ├── MiniBoardApplicationExamples_ver_Apr09.pdf
 ├── COPYING_GPL.txt
 └── COPYING_LGPL.txt
```