

Electroics investigation test code
v1.0-0

Generated by Doxygen 1.8.1.1

Sun Feb 24 2013 20:04:01

Contents

1	Class Index	1
1.1	Class List	1
2	File Index	3
2.1	File List	3
3	Class Documentation	5
3.1	integratedCircuitInterface Class Reference	5
3.1.1	Member Function Documentation	5
3.1.1.1	asQObject	5
3.1.1.2	pluginDescription	5
3.1.1.3	pluginName	5
3.1.1.4	presetDigitalOut	5
3.1.1.5	readAnalogueIn	5
3.1.1.6	readDigitalIn	5
3.1.1.7	readXML	6
3.1.1.8	setAnalogueMask	6
3.1.1.9	settingsPanel	6
3.1.1.10	startEventLoop	6
3.1.1.11	statusIndicator	6
3.1.1.12	storeSettings	6
3.1.1.13	syncAnalogueIn	6
3.1.1.14	syncDigitalIn	6
3.1.1.15	syncDigitalOut	6
3.1.1.16	writeXML	6
3.1.1.17	xmlRootTag	6
3.2	mainWindow Class Reference	6
3.2.1	Constructor & Destructor Documentation	6
3.2.1.1	mainWindow	6
3.3	networkInterface Class Reference	6
3.3.1	Member Function Documentation	7
3.3.1.1	asQObject	7

3.3.1.2	connectToPeer	7
3.3.1.3	disconnectFromPeer	7
3.3.1.4	pluginDescription	7
3.3.1.5	pluginName	7
3.3.1.6	readXML	7
3.3.1.7	settingsPanel	7
3.3.1.8	statusIndicator	7
3.3.1.9	storeSettings	7
3.3.1.10	writeXML	7
3.3.1.11	xmlRootTag	7
4	File Documentation	9
4.1	eventLoop.cpp File Reference	9
4.2	eventLoop.h File Reference	9
4.3	main.cpp File Reference	10
4.3.1	Function Documentation	11
4.3.1.1	header	11
4.3.1.2	main	11
4.3.2	Variable Documentation	11
4.3.2.1	network	11
4.4	pluginInterfaces.h File Reference	11

Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

integratedCircuitInterface	5
mainWindow	6
networkInterface	6

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

eventLoop.cpp	9
eventLoop.h	9
main.cpp	10
pluginInterfaces.h	11

Chapter 3

Class Documentation

3.1 integratedCircuitInterface Class Reference

```
#include <pluginInterfaces.h>
```

Public Member Functions

- virtual QObject * [asQObject](#) ()=0
- virtual void [readXML](#) (QDomNode root)=0
- virtual QStringList [writeXML](#) ()=0
- virtual QString [xmlRootTag](#) ()=0
- virtual QString [pluginName](#) ()=0
- virtual QString [pluginDescription](#) ()=0
- virtual QWidget * [statusIndicator](#) ()=0
- virtual QWidget * [settingsPanel](#) ()=0
- virtual void [storeSettings](#) ()=0
- virtual void [syncDigitalIn](#) ()=0
- virtual void [readDigitalIn](#) (int channel)=0
- virtual void [presetDigitalOut](#) (int channel, bool value)=0
- virtual void [syncDigitalOut](#) ()=0
- virtual void [setAnalogueMask](#) ()=0
- virtual void [syncAnalogueIn](#) ()=0
- virtual void [readAnalogueIn](#) (int channel)=0
- virtual void [startEventLoop](#) ()=0

3.1.1 Member Function Documentation

3.1.1.1 virtual QObject* integratedCircuitInterface::asQObject () [pure virtual]

3.1.1.2 virtual QString integratedCircuitInterface::pluginDescription () [pure virtual]

3.1.1.3 virtual QString integratedCircuitInterface::pluginName () [pure virtual]

3.1.1.4 virtual void integratedCircuitInterface::presetDigitalOut (int *channel*, bool *value*) [pure virtual]

3.1.1.5 virtual void integratedCircuitInterface::readAnalogueIn (int *channel*) [pure virtual]

3.1.1.6 virtual void integratedCircuitInterface::readDigitalIn (int *channel*) [pure virtual]

- 3.1.1.7 `virtual void integratedCircuitInterface::readXML (QDomNode root) [pure virtual]`
- 3.1.1.8 `virtual void integratedCircuitInterface::setAnalogueMask () [pure virtual]`
- 3.1.1.9 `virtual QWidget* integratedCircuitInterface::settingsPanel () [pure virtual]`
- 3.1.1.10 `virtual void integratedCircuitInterface::startEventLoop () [pure virtual]`
- 3.1.1.11 `virtual QWidget* integratedCircuitInterface::statusIndicator () [pure virtual]`
- 3.1.1.12 `virtual void integratedCircuitInterface::storeSettings () [pure virtual]`
- 3.1.1.13 `virtual void integratedCircuitInterface::syncAnalogueIn () [pure virtual]`
- 3.1.1.14 `virtual void integratedCircuitInterface::syncDigitalIn () [pure virtual]`
- 3.1.1.15 `virtual void integratedCircuitInterface::syncDigitalOut () [pure virtual]`
- 3.1.1.16 `virtual QStringList integratedCircuitInterface::writeXML () [pure virtual]`
- 3.1.1.17 `virtual QString integratedCircuitInterface::xmlRootTag () [pure virtual]`

The documentation for this class was generated from the following file:

- [pluginInterfaces.h](#)

3.2 mainWindow Class Reference

```
#include <eventLoop.h>
```

Public Member Functions

- [mainWindow](#) (QMainWindow *parent=0)

3.2.1 Constructor & Destructor Documentation

- 3.2.1.1 `mainWindow::mainWindow (QMainWindow * parent = 0)`

The documentation for this class was generated from the following files:

- [eventLoop.h](#)
- [eventLoop.cpp](#)

3.3 networkInterface Class Reference

```
#include <pluginInterfaces.h>
```

Public Slots

- virtual void [connectToPeer](#) ()=0
- virtual void [disconnectFromPeer](#) ()=0

Public Member Functions

- virtual QObject * [asQObject](#) ()=0
- virtual void [readXML](#) (QDomNode root)=0
- virtual QStringList [writeXML](#) ()=0
- virtual QString [xmlRootTag](#) ()=0
- virtual QString [pluginName](#) ()=0
- virtual QString [pluginDescription](#) ()=0
- virtual QWidget * [statusIndicator](#) ()=0
- virtual QWidget * [settingsPanel](#) ()=0
- virtual void [storeSettings](#) ()=0

3.3.1 Member Function Documentation

3.3.1.1 virtual QObject* networkInterface::asQObject () [pure virtual]

3.3.1.2 virtual void networkInterface::connectToPeer () [pure virtual],[slot]

3.3.1.3 virtual void networkInterface::disconnectFromPeer () [pure virtual],[slot]

3.3.1.4 virtual QString networkInterface::pluginDescription () [pure virtual]

3.3.1.5 virtual QString networkInterface::pluginName () [pure virtual]

3.3.1.6 virtual void networkInterface::readXML (QDomNode *root*) [pure virtual]

3.3.1.7 virtual QWidget* networkInterface::settingsPanel () [pure virtual]

3.3.1.8 virtual QWidget* networkInterface::statusIndicator () [pure virtual]

3.3.1.9 virtual void networkInterface::storeSettings () [pure virtual]

3.3.1.10 virtual QStringList networkInterface::writeXML () [pure virtual]

3.3.1.11 virtual QString networkInterface::xmlRootTag () [pure virtual]

The documentation for this class was generated from the following file:

- [pluginInterfaces.h](#)

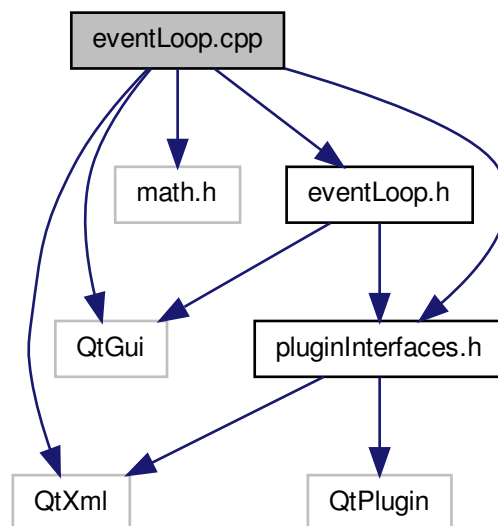
Chapter 4

File Documentation

4.1 eventLoop.cpp File Reference

```
#include <QtGui>
#include <QtXml>
#include <math.h>
#include "pluginInterfaces.h"
#include "eventLoop.h"
```

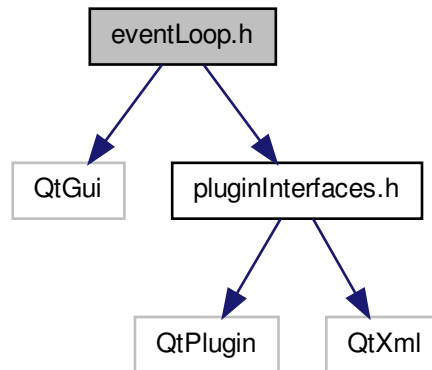
Include dependency graph for eventLoop.cpp:



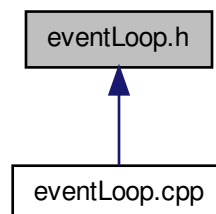
4.2 eventLoop.h File Reference

```
#include <QtGui>
#include "pluginInterfaces.h"
```

Include dependency graph for eventLoop.h:



This graph shows which files directly or indirectly include this file:



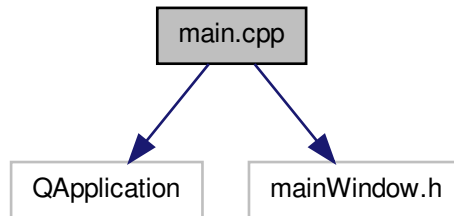
Classes

- class [mainWindow](#)

4.3 main.cpp File Reference

```
#include <QApplication>
#include "mainWindow.h"
```

Include dependency graph for main.cpp:



Functions

- void `header` ()
- int `main` (int argc, char *argv[])

Variables

- QList< `networkInterface` * > `network`

4.3.1 Function Documentation

4.3.1.1 void `header` ()

4.3.1.2 int `main` (int *argc*, char * *argv*[])

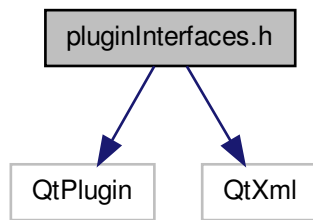
4.3.2 Variable Documentation

4.3.2.1 QList<`networkInterface`*> `network`

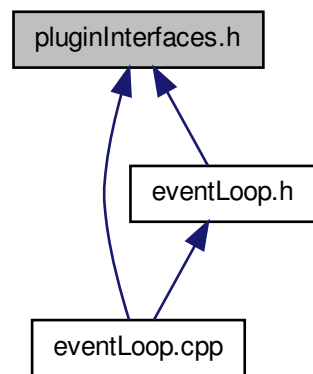
4.4 pluginInterfaces.h File Reference

```
#include <QtPlugin>
#include <QtXml>
```

Include dependency graph for pluginInterfaces.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [networkInterface](#)
- class [integratedCircuitInterface](#)

Index

- asQObject
 - integratedCircuitInterface, 5
 - networkInterface, 7
- connectToPeer
 - networkInterface, 7
- disconnectFromPeer
 - networkInterface, 7
- eventLoop.cpp, 9
- eventLoop.h, 9
- header
 - main.cpp, 11
- integratedCircuitInterface, 5
 - asQObject, 5
 - pluginDescription, 5
 - pluginName, 5
 - presetDigitalOut, 5
 - readAnalogueIn, 5
 - readDigitalIn, 5
 - readXML, 5
 - setAnalogueMask, 6
 - settingsPanel, 6
 - startEventLoop, 6
 - statusIndicator, 6
 - storeSettings, 6
 - syncAnalogueIn, 6
 - syncDigitalIn, 6
 - syncDigitalOut, 6
 - writeXML, 6
 - xmlRootTag, 6
- main
 - main.cpp, 11
- main.cpp, 10
 - header, 11
 - main, 11
 - network, 11
- mainWindow, 6
 - mainWindow, 6
 - mainWindow, 6
- network
 - main.cpp, 11
- networkInterface, 6
 - asQObject, 7
 - connectToPeer, 7
 - disconnectFromPeer, 7
 - pluginDescription, 7
 - pluginName, 7
 - readXML, 7
 - settingsPanel, 7
 - statusIndicator, 7
 - storeSettings, 7
 - writeXML, 7
 - xmlRootTag, 7
- pluginDescription
 - integratedCircuitInterface, 5
 - networkInterface, 7
- pluginInterfaces.h, 11
- pluginName
 - integratedCircuitInterface, 5
 - networkInterface, 7
- presetDigitalOut
 - integratedCircuitInterface, 5
- readAnalogueIn
 - integratedCircuitInterface, 5
- readDigitalIn
 - integratedCircuitInterface, 5
- readXML
 - integratedCircuitInterface, 5
 - networkInterface, 7
- setAnalogueMask
 - integratedCircuitInterface, 6
- settingsPanel
 - integratedCircuitInterface, 6
 - networkInterface, 7
- startEventLoop
 - integratedCircuitInterface, 6
- statusIndicator
 - integratedCircuitInterface, 6
 - networkInterface, 7
- storeSettings
 - integratedCircuitInterface, 6
 - networkInterface, 7
- syncAnalogueIn
 - integratedCircuitInterface, 6
- syncDigitalIn
 - integratedCircuitInterface, 6
- syncDigitalOut
 - integratedCircuitInterface, 6
- writeXML
 - integratedCircuitInterface, 6
 - networkInterface, 7

xmlRootTag
 integratedCircuitInterface, [6](#)
 networkInterface, [7](#)