

IIR Filter - For use with EMG gaming with Rpi

0.1

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Chapter 1

QwtExample

A simple example program using Qt/Qwt widgets to be used as a base for students doing Raspberry Pi data acquisition. It also creates a Thread which could be used to acquire ADC data with the help of poll/select and storing it in a ringbuffer.

Making it work

Install the QT5 and Qwt development packages:

```
apt-get install qtdeclarative5-dev-tools
apt-get install libqwt-qt5-dev
```

To clone this git repository.

To build:

```
cd qwt-example
qmake
make
```

To run (assuming you are logged into the RPi over ssh and no X-server is running):

```
startx ./QwtExample
```

or with X running

```
./QwtExample
```


Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

qt_meta_stringdata_Window_t	7
QThread	
ADCreader	7
QWidget	
Window	7

Chapter 3

Class Index

3.1 Class List

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

ADCreader	7
qt_meta_stringdata_Window_t	7
Window	7

Chapter 4

Class Documentation

4.1 ADCreader Class Reference

Inheritance diagram for ADCreader:

4.2 qt_meta_stringdata_Window_t Struct Reference

Public Attributes

- QByteArrayData **data** [4]
- char **stringdata0** [21]

4.2.1 Detailed Description

Definition at line 23 of file moc_window.cpp.

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

- moc_window.cpp

4.3 Window Class Reference

Inheritance diagram for Window:

Collaboration diagram for Window:

Public Slots

- void **setGain** (double gain)

Public Member Functions

- void **timerEvent** (QTimerEvent *)

4.3.1 Detailed Description

Definition at line 17 of file window.h.

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

- window.h
- window.cpp

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qt_meta_stringdata_Window_t, [7](#)

Window, [7](#)