

Epics and Qt Resources

EPICS

Epics version 3 downloads:

<https://www.aps.anl.gov/epics/download/base/index.php>

Epics version 3 build guide:

<http://www.aps.anl.gov/epics/base/R3-16/1-docs/README.html>

Epics version 3 build facility:

<http://www.aps.anl.gov/epics/base/R3-14/12-docs/AppDevGuide/node5.html>

Note that the above link pertains to the Epics version 3 build system, but is also a useful resource for the version 4 build system. They are similar but not identical.

Epics version 3 developer guide:

<http://www.aps.anl.gov/epics/base/R3-16/1-docs/AppDevGuide/AppDevGuide.html>

Epics version 4 downloads:

<https://sourceforge.net/projects/epics-pvdata/files/>

Epics version 4 build guide:

<http://epics-pvdata.sourceforge.net/gettingStarted.html>

Epics version 4 developer guide:

<http://epics-pvdata.sourceforge.net/informative/developerGuide/developerGuide.html>

Epics version 4 documentation:

<http://epics-pvdata.sourceforge.net/literature.html>

Epics version 3 and version 4 github repository:

<https://github.com/epics-base>

Qt

Learning Qt:

<http://doc.qt.io/qt-4.8/how-to-learn-qt.html>

Simple Examples:

Simple Text Editor:

<http://doc.qt.io/qt-4.8/gettingstartedqt.html>

Digital Clock:

<http://doc.qt.io/qt-4.8/qt-widgets-digitalclock-example.html>

Address Book:

<http://doc.qt.io/qt-4.8/tutorials-addressbook.html>

Model/View:

<http://doc.qt.io/qt-4.8/modelview.html>

Threads:

<http://doc.qt.io/qt-4.8/thread-basics.html>

Advanced Examples:

Mandelbrot Fractals:

<http://doc.qt.io/qt-4.8/qt-threads-mandelbrot-example.html>

Network chat:

<http://doc.qt.io/qt-4.8/qt-network-network-chat-example.html>

All Examples:

<http://doc.qt.io/qt-4.8/all-examples.html>

Unofficial Projects, Tutorials and Guides

(Created by an SNS intern at ORNL c. summer of 2017)

ntDatabase – Code: example pvDatabase populated with normative type records.

<https://github.com/es-sns121/ntDatabase>

ntDatabase – Documents: guide detailing the above.

<https://github.com/es-sns121/ntDatabase-Documents>

ntAddFields – Code: example of how to add extra fields to normative types.

<https://github.com/es-sns121/ntAddFields>

ntAddFields – Documents: guide detailing the above.

<https://github.com/es-sns121/ntAddFields-Documents>

Two-Windows – Code: example of how single threaded GUI applications can hitch because of computations. Shows how to move the computation to another thread and keep the GUI thread responsive.

<https://github.com/es-sns121/qt-two-windows>

qtEpics-Slider – Code: example of how to build Epics and Qt together. Implements a slider widget that controls a process variable in a pvRecord that is hosted on a pvDatabase. The client (slider widget) alters the value of the pvRecord on the server. Multiple instances of the client can be started and all will have synchronized values for their respective sliders (i.e. if one client's slider is moved, all other clients' sliders will mirror this movement).

<https://github.com/es-sns121/qtEpics-Slider>

github repo – Contains summer projects. None are guaranteed to work or be representative of proper coding styles or techniques. These projects are generally conservative in scale and scope so they're fair examples of simple programs to look at.

<https://github.com/es-sns121>