EPICS Qt

Andrew Rhyder - Australian Synchrotron

Fall Meeting October 2014 Saclay

2015
ICALEPCS
melbourne • australia

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Melbourne Convention & Exhibition Centre

Presentation Summary

- Qt Intro

- Qt Within the EPICS community

- Qt Update

What is Qt

- Qt is a cross-platform application and UI framework for developers using C++.

- It can be used under an open source licence.

- Qt has had a good track record of ongoing development and expanding use.

- Strong community based governance.

Qt is an ecosystem

- An active open source community supporting documentation, forums, and tools

- Any applications we produce come with a lot of support from that community.

Qt roadmap

- Traditional desktop

- Embedded systems

- RTOS (including VxWorks)

- Touch screens

- Mobile platforms

Qt Everywhere

Can we benefit from Qt?

Can we benefit from Qt?
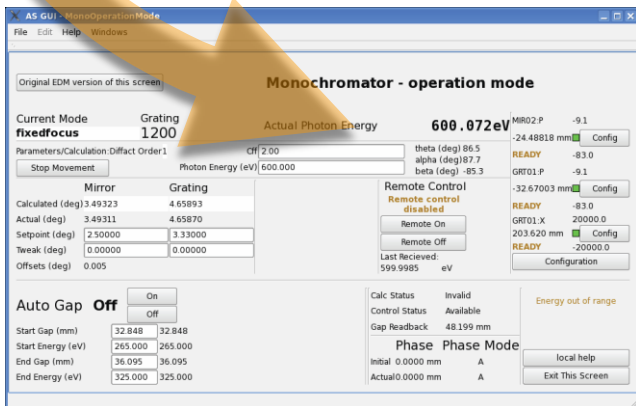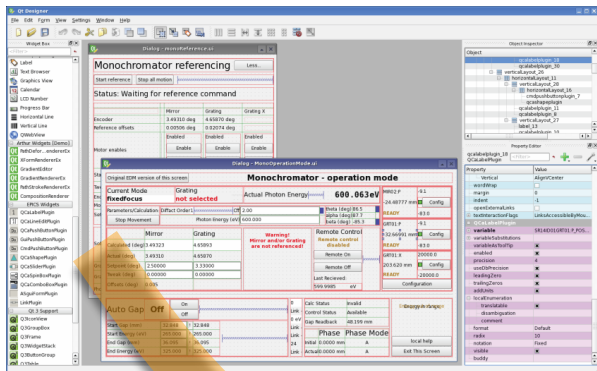
- The Paul Scherrer Institute:

   MEDM conversion tools

- The Australian Synchrotron:

   Unifying GUI system

- Lyncean Technologies:

   Python physics and science applications.

Collaboration results – EPICSQT + caQtDM

- Just like before – only combined!

- Common documentation

- Common packaging

- Includes all functionality from the Australian Synchrotron application

- Includes PSI's MEDM conversion tools and extended functionality

EPICSQt

EPICSQt

EPICSQt - differentiation

- UI presentation application that is not restricted to medm behaviour

    – Docks
    – Tabs
    – Application specific menu bars and toolbars

- Widget set that is not restricted to medm behaviour

EPICSQt update

EPICSQt update - GUIs for Beamline Users

EPICSQt update
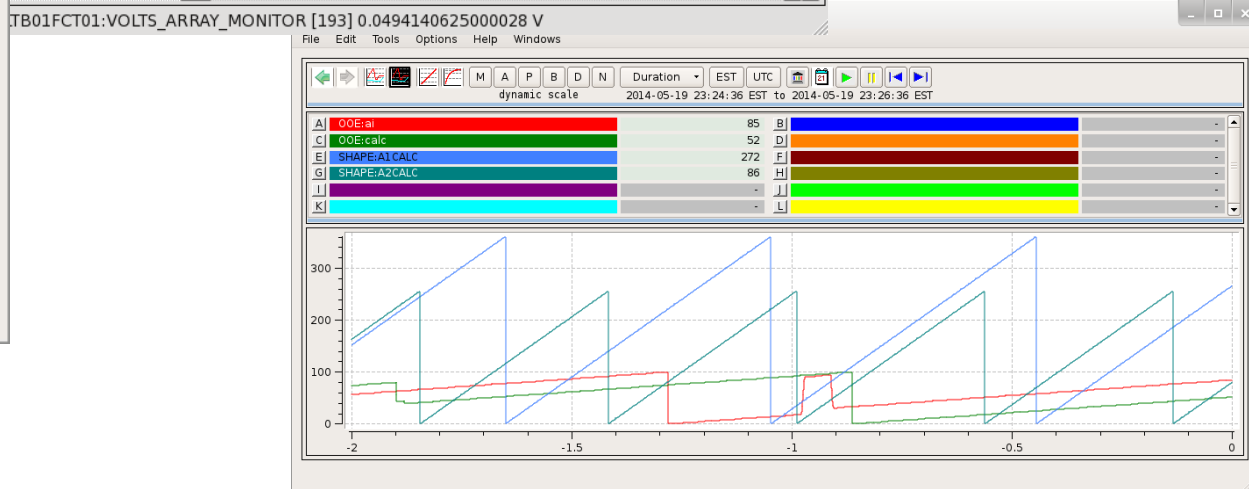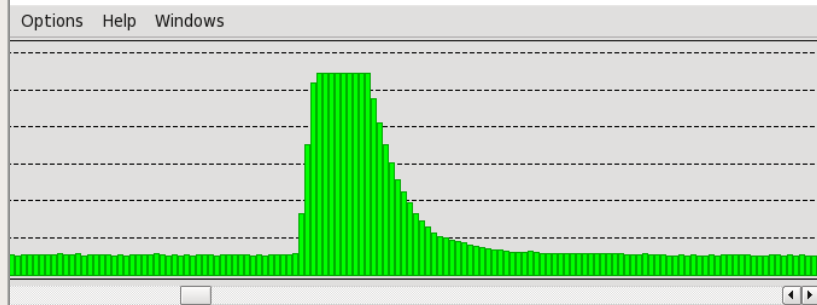
- User levels
- Plotting
- Stripcharts

EPICSQt update

- PV Scratch pad tool
- Logging

EPICSQt update

- Configuration Save/Restore
- Improved cut and paste
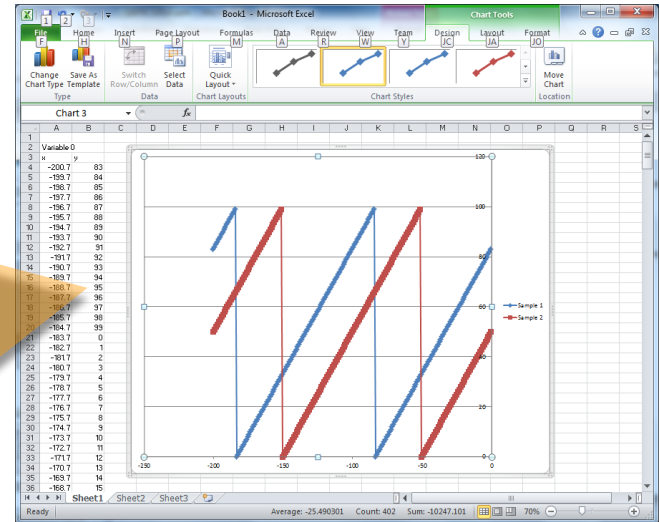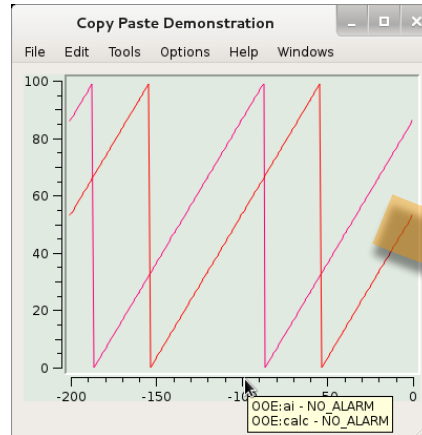
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- Dynamic tables
- PV Recipes
- User script management

EPICSQt update

- Documentation
- PV properties tool

EPICSQt update

- Menu and tool bar customisation
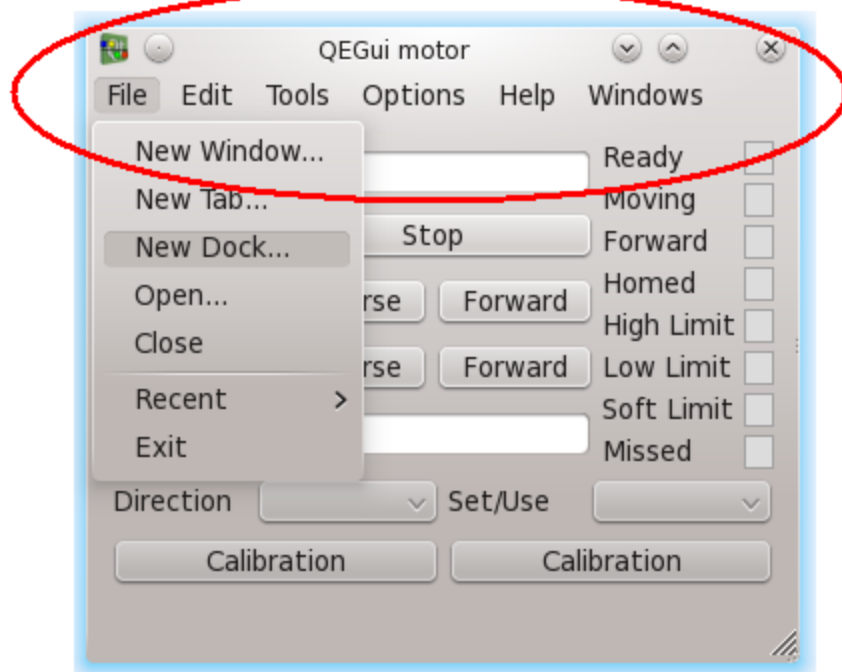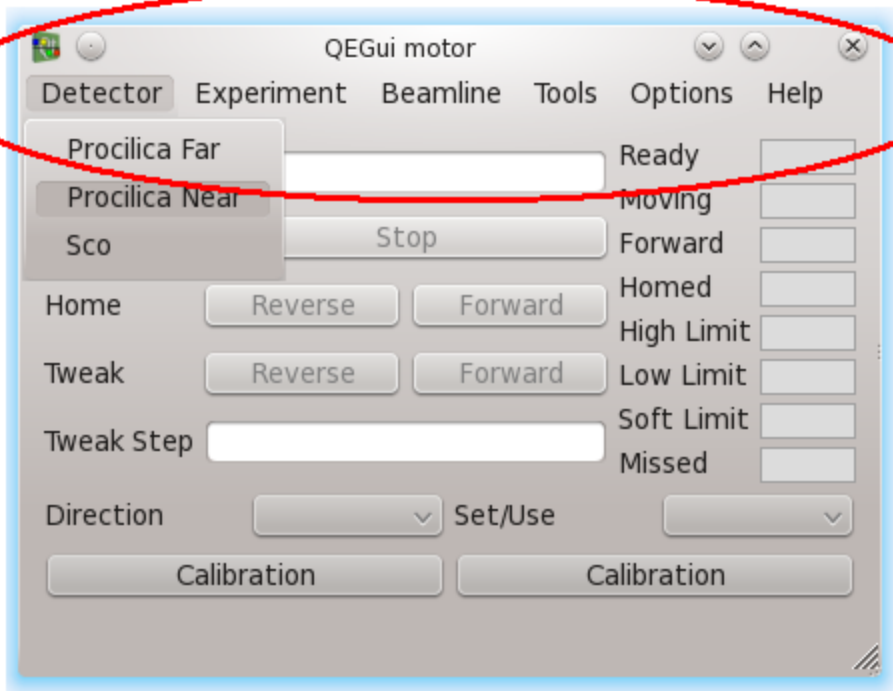
EPICSQt update

- Imaging
  - Interactive AreaDetector integration
  - Interactive user tasks
  - Analysis tools
  - Local presentation options

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- Testimonials from Epics Qt users
- Information to join the Epics Qt collaboration

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- Are you interested in the EPICSQt project specifically? andrew.rhyder@epicsqt.org

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