Introduction to NICOS

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What is NICOS

• Networked Instrument COntrol System
  – User-facing software to run experiments

• Similar to: IBEX, BlueSky, Sardana

• Will be used for all instruments at ESS
Purpose

- High-level, common user interface
Main Window
Origin and Usage

• Developed at MLZ in Munich, Germany
  – For use at FRM II Neutron Source
  – Original version since 2002, modern version starting 2009
  – Standard control software since 2013

• SINQ Instrument at PSI in Switzerland

• Integrated with IBEX at ISIS in UK
  – Script server backend
Key Features

• Cross-platform, developed on Linux
• Highly customizable, including GUI
  – Can be adapted for each instrument
• Python-based
  – User scripts and console
• Logging, monitoring, plotting, etc
Demo
Live Instrument View
Links

• NICOS Wiki

• NICOS Help
  – https://forge.frm2.tum.de/nicos/doc/nicos-master/

• NICOS Source
  – git clone git://trac.frm2.tum.de/home/repos/git/frm2/nicos/nicos-core.git
Discussion