

Hands-On: Programming EPICS-enabled Real-Time and FPGA Systems

Over the years, the use of COTS technology has enabled scientists and researchers to focus on their experiments rather than the instrumentation. COTS systems that leverage the rapid advancement in the computer industry for deterministic measurement and control needs provides high performance and flexibility while keeping the costs low. Learn how to take advantage of the latest EPICS-enabled COTS technologies, including graphical programming, Real-time operating systems and FPGA-based hardware, for measurement, diagnostic and control systems.

In this training:

- Use EPICS server and client to communicate to COTS hardware
- See how you can use LabVIEW to develop RTOS applications and deploy them to hardware
- Learn to use multi-core processors with parallel programming techniques
- Use high-level graphical programming to design your own custom reconfigurable FPGA hardware