EPICS

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C2 Data Viewer: Visualization tool for EPICS7 Data Streaming

Tuesday, 25 April 2023 16:30 (20 minutes)

A high-performance data acquisition system (DAQ) has been under active development to meet APS-U needs. It takes data from underneath FPGA (Field Programmable Gate Array), and streams it to its downstream users. The APS-U DAQ system software framework is implemented as a major portion of APS-U new control system software infrastructure, which is called C2. To visualize the DAQ data on the fly, a C2 Data Viewer (C2DV) is has been implemented using Python, which can be used for displaying live PV data streams for monitoring, troubleshooting and diagnostics purposes. It is now capable of handling both EPICS pvAccess (PVA) and Channel Access (CA) data, and includes several different applications: a scope viewer for plotting PVA waveforms, an image viewer for displaying Area Detector image data, and a striptool for monitoring PVA as well as CA scalar PVs. In this presentation we discuss various C2DV features, its usage at the Advanced Photon Source, as well as plans for future development.

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On Zoom

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