

EPICS V4 evaluation for SNS Neutron Data

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Version 4 of the Experimental Physics and Industrial Control System (EPICS) toolkit allows defining application-specific structured data types (pvData) and offers a network protocol for their efficient exchange (pvAccess). We evaluated V4 for the transport of neutron events from the detectors of the Spallation Neutron Source (SNS) to data acquisition and experiment monitoring systems. This includes the comparison of possible data structures, performance tests, and experience using V4 in production on a beam line.

Primary author(s) : Dr KASEMIR, Kay (SNS)

Presenter(s) : Dr KASEMIR, Kay (SNS)