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nED - EPICS-based neutron data acquisition and detector control software

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This talk will present an overview of nED software, with a focus on the software architecture and design.

Summary

At ORNL's Spallation Neutron Source, a next generation neutron data acquisition and detector control software system is being developed to replace the legacy software. This high performance software is known as nED (neutron Event Distributor), and is actively being deployed at production beam lines. nED is developed as an EPICS soft IOC, utilizing asynPortDriver to communicate with detector hardware, and EPICS v4 is leveraged to serve neutron data to higher layer clients. With nED, strides are being made to improve both the stability and the data throughput possible in current data acquisition software.

Primary author: Mr GUYOTTE, Gregory (ORNL / SNS)

Presenter: Mr GUYOTTE, Gregory (ORNL / SNS)

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