Title: Mantid - Current development and future plans

Topic: Instrumentation, facilities, data analysis & sample environment

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The Mantid[1] project was started by ISIS in 2007 to provide a framework to perform data reduction and analysis for neutron and muon instruments and accommodate the increasing data volumes from newer instruments. The SNS and HFIR joined the Mantid project in 2009 adding world leading event processing and other capabilities to the Mantid framework. The Mantid software is now supporting the data reduction needs of most of the instruments at ISIS, the SNS and some at HFIR, and is being evaluated by other facilities.

The scope of data reduction and analysis challenges that Mantid faces, together with the need to create a cross platform solution, fuels the need for Mantid to be developed in collaboration between facilities. Mantid has from the inception been an open source project, and having been built to the flexible enough to be instrument and technique independent, was initially planned to support collaboration with other development teams. Through the collaboration with the SNS development practices and tools have been further developed to support the distributed development team in this challenge.

This talk will highlight the current capabilities of Mantid, and describe some of the challenges of distributed cross platform development, and describe some of the plans for Mantid in the future.

References

www.mantidproject.org