

LArSoft Librarian's Meeting

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Today's agenda

- Introduction and project report (Erica)
- Data product changes
 - recob::Wire (Bruce Baller)
 - recob::Track (Herb Greenlee)

Outline for this talk

- The purpose of this meeting
- Build and integration system
- LArSoft releases
- mrb changes

The Librarian's meeting

- Purpose

- To discuss algorithms or code that could be shared across multiple experiments
 - Provide a common forum for discussing:
 - Issues related to software and release management
 - Changes to LArSoft code that may affect multiple experiments
 - Data product changes
 - Class interface changes
 - Proposed design changes
- Final approval is with the project
- Changes to infrastructure packages used by LArSoft
 - Coding standards and guidelines
 - Requirements for addressing any of the above

Similar to the former General Meeting, but with additional focus on managing the process of code changes

The Librarian's meeting

- Software and release management
 - Want committed code to be functional, documented
 - Will require introducing standards, procedures, processes
 - Do not want to over-burden developers, but we all gain by taking reasonable steps to ensure that code works as expected and is documented
 - Expect librarians to be responsible for ensuring these procedures and processes are carried out
 - Use Librarian's meeting to introduce and implement these changes
 - The build and integration system will be central to all of this

Build and integration system

- On-going SCD project to deploy a shared build and integration system
 - Working on a requirements document
 - Evaluating use of Jenkins continuous integration system
 - Testing with the LArSoft build
- LArSoft will be gathering requirements during the next few weeks
 - Suggested requirements from LBNE posted on the LArSoft wiki
 - https://cdcvs.fnal.gov/redmine/projects/larsoft/wiki/Draft_LBNE_integration_build_and_test_system_requirements
 - Send further proposals to me
 - Goal is to have preliminary system working in June
 - LBNE plans to had a demonstration system operational before that

LArSoft releases

- LArSoft v1.01.00
 - Motivation
 - Infrastructure changes needed to build/distribute LArSoft for Mac OS “Maverick”
 - Major changes:
 - gcc 4.8.1 → 4.8.2
 - cmake 2.8.8 → ??
 - art 1.08.10 → 1.09.02
 - With 1.01.00, will add source a binary distribution for Maverick
 - pullProductsLAr-v1_01_00 will take arguments for target OS, or “source”
 - buildLAr-v1_01_00 will work on Maverick
 - Expect to have changes ready by end of this week, approximately
 - Question: should this happen before / after changes from uBooNE workshop go in

Upcoming mrb changes

- The major issues currently being addressed.
 - Support for non-bash shells
 - Significant progress on fixing this
 - Expect to be done by about April 4
 - “mrb newProduct” command will change
 - Currently assumes LArSoft will be set up
 - This will change so that it looks at MRB_PROJECT (as it does for mrb newDev)
 - Also assumes that gcc will be set up
 - This may also change to allow other compilers
 - Timescale - “soon”

Data product changes

- recob::Wire
- recob::Track