

LArSoft Coordination Meeting

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Today's agenda and speakers

- Release and project report (Erica)
- Architecture report (Gianluca Petrillo)
- Experience porting shower code from LArLite (Corey Adams)
- Changes to MCTrack (Joseph Zennamo)
- New optical reconstruction code (Kazu Terao)
- New PID code (Martin Haigh)
- Enabling MuonNuclear in GEANT4 (Matt Robinson)
- AOB

LArSoft Workshop

- Will have a LArSoft Workshop on “usability” issues
 - Includes all aspects of using the code
 - Building
 - Installing / porting
 - Interfaces
 - Learning / documentation
- Will come immediately after the FIFE workshop (like last year)
 - Tentatively scheduled for Wednesday, June 22
 - The week after the Fermilab User's Meeting

Send ideas, comments, suggestions, complaints to erica@fnal and ruth@fnal.gov

Releases

- Last week
 - v04_33_00
 - Changes in develop
 - Updated to art v1_17_16 (requested by uBooNE)
 - Updated libwda to handle a use case identified by uBooNE
- This week
 - Several merge requests to be discussed today
- LArSoft version 5
 - The schedule for v05 has slipped due to other demands. No new estimate.
 - V05_00_00_rc2 is now available for testing
 - Conversion scripts available for path / library name changes
 - **Please test the conversion scripts!!** How well they work may affect the schedule
 - Will need sign-off from all experiments for transition (or a new RC request)
 - Need to define a process, acceptance criteria

Ubuntu support

- Support for Ubuntu 14.04 LTS is now officially “best effort”
 - Will be providing builds + distribution tarballs
 - Best effort
 - Will be provided after all other builds
 - Problems will be addressed as time allows
 - No CI system support as yet
 - Some limitations in functionality (some of which are known, some likely not)
 - Limitations
 - libwda is available and should work, but has not been tested
 - Full ifdhc functionality is not available.
 - Due to underlying OSG client tools
 - FIFE recommends specifying xrootd paths to ifdhc
 - *They claim this will work on all platforms*
 - SCD still thinking about long-term support issues

Mac OSX support

- El Capitan
 - Apple has changed the way in which run-time libraries are found
 - Can no longer use a pre-configured LD_LIBRARY_PATH, which all of our applications and tools assume will happen
 - People are working on a solution
 - In the mean time, **El Capitan is not supported**
 - **Do not upgrade if you intend to develop or run LArSoft on your Mac**

LArSoft Planning

- Continuing the process of developing planning documentation
 - Requirements document completed, under review by experiments
 - Working on an implementation plan
 - Will have a continuing process of 6-month planning cycles
- Meeting this week to begin discussions with experiment offline coordinators
- Goal will be to prioritize work plans, understand staffing needs
 - Work from requirements, other experiment input
- Input from everyone is welcome
 - Contact Erica or Ruth
- More on this in up-coming meetings

Status of on-going sub-projects

- Architecture report
 - Gianluca's report
- CI system operations
 - Short report
- LArLite integration project
 - No update this week
- Profiling and optimization project
 - No update this week
- Common document repository
 - No update this week

CI system operations

- Monitoring the system, test results (Vito di Benedetto)
 - uBooNE switch to CORSIKA caused failure of generator test
 - Fixed with new reference file, but...
 - ...generator phase now failing due to 'ifdh ls' command, which does not work on Mac
- New workflow under development
 - Allows multiple experiments to share a build, yet have different versions of some dependencies
 - Being tested now

The end