

LArSoft partners / project meeting

E. Snider
L. Garren
G. Petrillo
R. Pordes
Fermilab

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Today's agenda

- News, announcements (Erica)
- Experiment reports / input
 - LBNE
 - uBooNE
 - LArIAT
 - ArgoNeut
- Project status (Ruth)
- AOB

Releases

- v1_02_00 released last week
 - New art version
 - Major bug fix for v1_01_00, per agreement at last librarians meeting
- v1_02_01
 - Tagged, built, but not released
 - Will be archival v1_02 series release
- V02_00_00 <-----<<< note new leading "0"
 - Introduce (long awaited) ROI code
 - Will be tagged today

Proposal for documentation requirement

- Minimum documentation requirement
 - A latex file (from a template) that contains
 - Class name + file name(s)
 - Summary of the purpose of the class(es)
 - Input data / objects
 - Output data / objects
 - Configuration data / objects (eg, calibration data)
 - Summary of algorithm (can be brief, very high level)
 - Use cases
 - Examples (should include a reference to generally available fcl file with demo)
- The requirement will apply to the following:
 - Modules
 - Services
 - Algorithms
 - “Important” tools, utilities (?)

Proposal for documentation requirement

- Documents will live in git alongside the code
 - `<product>/doc/<package>`, eg, `larcore/doc/Geometry/*.tex`
- Will build documentation into pdf files
 - A cmake flag will enable the documentation build
 - Will be off by default, but turned on during the release build procedure
 - Make them available online via the code browser
- Discussion...

LArSoft NIM article

- Want to draft a LArSoft NIM article
 - The idea has been floated by a number of people
 - Will include all LArSoft contributors as authors
 - Have an initial outline from Eric Church
- When, how?
 - Do not yet have resources identified to complete it, and have not set a schedule.
 - We will get technical writing assistance from Katherine Lato
 - Want participation from developers
 - Need to organize the effort if all agreed that this is a good idea

Experiment specific branches

- Create branches specific to each experiment?
 - An idea that has been raised by various people on both experiments
 - Allows each experiment to use new code immediately while review for integration into LarSoft is on-going
 - Also allows each experiment to pursue their own agendas in relative peace.
 - Would require support for central build of these branches
- Discussion
 - The project is committed to keeping a single, common develop branch
 - Would want to merge back into develop after every librarians meeting, or agree on a plan for dealing with whatever issue is preventing it
 - Is there a need to do this now?
 - If so, what could we change to make it unnecessary?
 - Comments...

Status of projects

- LArSoft CI workshop
 - June 17 - 18, immediately following the FIFE workshop
 - Working on the agenda
 - Will be posted under the “General” section of the LarSoft indico page
 - Basic functionality for CI system
 - Working to have a basic system operational in time for the workshop
 - Aiming at rudimentary functionality at this point
 - Have a summer student (Mark Dykstra) working to implement a few basic tests. The prioritized list:
 - 1) CPU time
 - 2) Memory consumption (vs time)
 - 3) Services parse fcl files, do not crash
 - 4) Simple histogram comparison
- At least want to have the first two ready

Experiment reports

- LBNE
- uBooNE
- LArIAT
- ArgoNeuT

Project status input

