

LArSoft Coordination Meeting

Release and project report

Erica Snider
on behalf of
the SciSoft team
Fermilab

November 16, 2021

Today's agenda and speakers

- Release and project report (Erica)
- AuxDets and the new LArG4 (Ivan Lepetic)
- Timing conventions for recob waveforms (Chris Backhouse)
- Concept clarifications of Wire-Cell simulation and signal processing (Haiwang Yu)
- AOB

Releases

- Last week
 - v09_36_00 released on Nov 11
 - New features
 - [larpandora#23](#): new detector interface to accommodate vertical drift detectors
 - *No changes to existing experiments / outputs*
 - Bug fixes
 - [larg4#31](#): ensure correct setup / teardown of G4 objects for multiple larg4 modules
 - *Fixes problem in [larg4#30](#), which introduced capability for multiple larg4 modules*
 - *Suggested moving some of the relevant behavior into appropriate service*
 - [larg4#32](#): Initialize track ID offset to address intermittent warnings in SBND G4 tests
 - Linked changes to address [issue #25525](#): bug adding offset to TrackID in MergSimSources
 - [lardataobj#18](#)
 - [larsim#77](#)
 - Known issue
 - Unexplained OpHit/OpFlash product differences in SBND CI tests
 - *Appeared after [larana#14](#) (v09_35_01) to fix bug in OpHitFinder pedestal calculation*
 - *See [issue #26421](#), and <https://github.com/SBNSoftware/sbndcode/issues/213>*

Releases

- Last week (cont'd)
 - v09_36_00_01 released on Nov 12
 - **Test release** as requested at Nov 2 LCM
 - Incorporates PRs discussed by Herb Greenlee at last LCM that bring forward the MicroBooNE “MCC9” updates
 - 5 PRs related to ParticleID data product changes
 - 1 PR in MCS momentum track fit
 - 1 PR for event building in larpandora
 - Release is on the v09_36_00_br branch
 - Known issues:
 - Same larana defect as in v09_36_00, since it is based on that release.
- This week
 - Approved PRs

Status of PRs

- Under discussion:
 - [larcorealg#23](#): Adding tolerances when finding AuxDet(Sensitive)s
 - Addressing some minor coding suggestions
 - [larsim#78](#): CRT translation module
 - Topic of Ivan Lepetic's presentation today
 - [larcorealg#21](#): geo::OpDetGeo made aware of detector orientation
Opened Aug 21
 - Purpose
 - Fixes a problem where rotations in GDML are not taken into account by Geometry service in some cases. Needed by DUNE vertical drift and SBND.
 - Addresses [issue #26118](#)
 - Status: unchanged since last LCM
 - Found photo-detector geometry issues in CI testing for dunefd-hd and SBND
 - Placed on hold (for ~2 weeks) while author is away

Status of PRs

- Approvals in progress
 - None

Status of LArSoft wiki access (unchanged since last LCM)

- Looking at migrating LArSoft wiki to GitHub to address problems with wiki access due to Fermilab SSO requirement
 - Status
 - Have performed test migrations. Still evaluating result. ← this is where we are...
 - Expect to make a decision within next couple of weeks.
- As mentioned last time:
 - Lab plans to allow CERN SSO logins to view most content behind Fermilab SSO
 - Plan to expand this to SSO logins from other labs. Unclear if universities will be included.
 - The lab will provide “lightweight” Fermilab SSO accounts, much as CERN does
 - Will allow access to more restricted set of Fermilab SSO-protected content
 - In the meantime, <https://search.fnal.gov> site (SSO-protected) intended to provide google-quality search *within* SSO-protected domain (and only within...)

The end