

LArSoft Coordination Meeting

Release and project report

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Today's agenda and speakers

- Release and project report (Erica)
- CI operations report (Vito di Benedetto)
- Documentation update (Katherine Lato)
- Adding optical truth information (Jason Stock)
- Kalman fitter project (Giuseppe Cerati)
- AOB

Releases

- Last week:
 - v06_10_00_rc2 released Oct 5 (a bit later than planned...)
 - Based on v06_08_00 released on Sep 29
 - GENIE v2.11.2
 - Geant4 10.2.p02
 - ifdhc b2.0.3
 - Have received no feedback yet. Will be requesting testing plans.
 - v06_09_00 released Oct 6
 - Space charge recombination effects
 - Requires new SCEoffsets.root in larsoft_data product
 - Fix for memory leak in NEST
 - First release with advertised El Capitan distribution that works with SIP disabled
 - See https://cdcvns.fnal.gov/redmine/projects/larsoft/wiki/_Supported_platforms_ for details
 - Can also request a docker image: [open an issue ticket](#), or send email to larsoft-team@fnal.gov

Question about docker: Should we make these by default, or wait for requests?

Releases

- This week
 - v06_11_00 (!! note the release number !!)
 - Will include a number of associated product updates
 - *art* 2.04.01: fixes a bug reported by Tingjun
 - *nutools* 2.06.00: moved classes...more on this later
 - *ifdhc* v2: (no longer a beta release)
 - *Fixes integration test failures under Mac OSX*
 - *Use 'ifdh findMatchingFiles' command instead of 'ifdh ls'*
 - *More on that from Vito*
 - About the release number
 - Have been building v06_10_00_rcX
 - Tried to anticipate when testing of new GENIE and Geant4 would be completed, but...no
 - So, will skip v06_10, and release new products in the appropriate version later

Some breaking changes (actual)

- Latest version of nutools (v2.06.00)
 - By request from Brian Rebel
 - Several classes moved from `larsim` to `nutools/ParticleNavigation`
 - `ParticleList`
 - `ParticleHistory`
 - `EveIdCalculator`
 - `EmEveIdCalculator`
 - These are not LAr-specific, and are useful to, e.g., NOvA

Unless strong objections, this change will be included in the next release, v06_11_00

Some breaking changes (proposed)

- Proposed changes:

- Want to remove algorithm code from `lardata/lardata/AnalysisAlg`, so...

```
...move  larana/larana/Calorimetry/*
to       larreco/larreco/Calorimetry/* in preparation to...
```

```
...move  lardata/lardata/AnalysisAlg/Chi2PIDAlg*
to       larana/larana/ParticleIdentification/
```

```
...move  lardata/lardata/AnalysisAlg/CalorimetryAlg*
to       larreco/larreco/Calorimetry/
```

But `CalorimetryAlg` is used by `BezierTrack` in `lardata/lardata/RecoObjects`, so...

```
...propose deprecating  BezierTrack  so then...
```

```
...move  lardata/lardata/RecoObjects/BezierTrack.*
to       larreco/larreco/Deprecated/
```

Immediately remove support for `BezierTrack` within event display
Drop it altogether later

Some breaking changes (proposed)

- Propose implementing this for the next release, v06_11_00

As usual, we would make changes to develop everywhere

- To update private code, would need to:
 - Run `larsoft/bin/reorganize_calorimetry/UpdateForCalorimetry.sh`
 By hand, add `larreco_Deprecated` to link list for code that uses `BezierTrack`
 and `larana_ParticleIdentification` for code that uses `Chi2PIDAlg`

Comments? Objections?

Ubuntu support

- *art* has proposed moving to Ubuntu 16 LTS
 - Will support both 14 and 16 for one minor release (e.g., 2.05.*)
 - Then will drop u14
- After discussion here and with offline coordinators, LArSoft plans to recommend moving ahead as soon as possible

Any final comments?

Status of on-going sub-projects

- CI system operations
 - Vito di Benedetto
- Usability: associations
 - Saba Sehrish
- Profiling and optimization project
 - No report this week
- LArSoft documentation
 - Katherine Lato

The end