

LArSoft Coordination Meeting

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March 15, 2016

Today's agenda and speakers

- Release and project report (Gianluca Petrillo)
- Status of changes to EMShower (Mike Wallbank)
- LArSoft CI system operations report (Vito di Benedetto)
- AOB

Releases

- Last week

- v05_02_00

- New modules for track and shower efficiency
- Native Pandora internal visualization
- Targeted change to photon reconstruction that was approved at the last Coordination Meeting **did not** make it into this release as expected
 - uboonecode committed a change in anticipation of the new code, and had a problem when it was not there

This was a failure of the coordination process. Will come back to this...

- v05_03_00_rc1

- Same as v05_02_00 except with Geant4 v10.1.p03 instead of v9.6
- One issue that came up: units in GDML!!
 - “g/cc” (not correct) vs “g/cm3” (correct). Are all instances fixed??
- Need to get sign-off from experiments on this change!!
- Status of testing??
 - Need to get sign-off from experiments on this change as soon as possible!!

Releases

- This week
 - Accepted new Pandora at last CM
 - Pandora v2-06-00
 - LArPandoraContent v02-05-00
 - larpandora, duntpc, lar1ndcode:
 - feature/PreapareFor_LArPandoraContent_v02-05-00
 - New nutools
 - Fixes bug with handling of magnetic field
 - Expect new OptHitFinder code in larana
 - Anything else from this meeting...

Coordination / integration procedures?

- A “minor” issue with uboonecode after v05_02_00
 - Non-existent OpHitModule referenced in uboonecode reco fcl's
- What happened?
 - OpHitModule in larana was to be included in last release but was not ready
 - uboonecode had a module with conflicting name
 - MicroBooNE authors agreed in advance to change the name, but later decided just to move it to a directory that was invisible to cmake
 - Did not change fcl's in anticipation that the promised new module would appear (? did not confirm this with them...)
 - Restoring module and rebuilding uboonecode fixed it, so only a “minor” problem
- How to avoid this in the future?
 - Changes that need coordination need to be on branches
 - For such changes, the status needs to be communicated:
 - With Lynn, experiment release managers, with relevant code authors...

This was a minor issue, but still...

Major changes

- Status of major changes
 - v05 (completed)
 - GENIE upgrade to v2.10.4 (completed)
 - GEANT4.10 upgrade (in progress)
 - Target this week (??) or next
 - Migrate to root 6 (completion target: the end of March)
 - art v1.18 (a change from the last time we talked about this)
 - No art / nutools repository re-structuring
 - Repository restructuring (completion target: the end of March?)
 - Separate parts of larcore, lardata and larsim that will be shared with LArLite
 - LArSoft / LArLite integration work will be waiting for this split
 - art v1.19
 - Repository splits in art and nutools

Status of on-going sub-projects

- Usability project report
 - No update this week
- CI system operations
 - Vito di Benedetto
- LArLite integration project
 - No update this week
- Profiling and optimization project
 - No update this week
- Common document repository
 - No update this week

The end

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