LArSoft Coordination Meeting

Release and project report

Erica Snider
Vito di Benedetto
Giuseppe Cerati
Lynn Garren
Katherine Lato
Paul Russo
Saba Sehrish

Fermilab

June 18, 2019

Today's agenda and speakers

- Release and project report (Erica)

- Removed services and modules from LArSoft (Kyle Knoepfel)

- Testing vectorized Gauss hit finding in LArSoft (Sophie Berkman)

- AOB

LArSoft workshop 2019...

...is NEXT WEEK!!

One and a half days of LArSoft fun

The program

- 1:00 to 5:00 pm Monday, June 24 in the Hornet's Nest (WH8X)

    - LArSoft Tutorial

        - Overview

        - Technical details

        - Coding conventions

        - Pandora tutorial

        - Practical guide to getting started

    - Parallel session for current / future release managers

        - How to tag and build a LArSoft release

LArSoft workshop 2019...
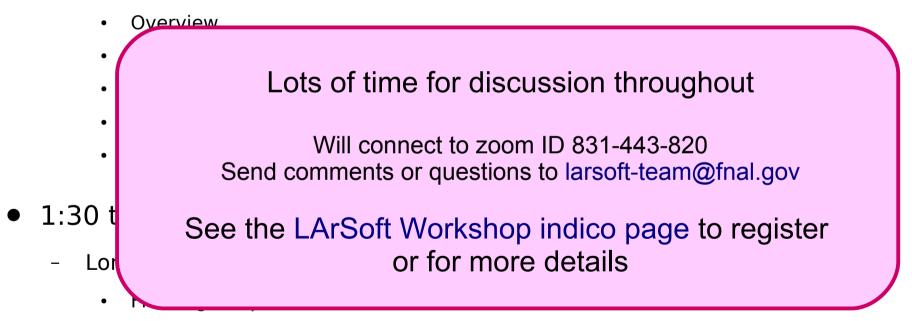
- **9:00 am to noon Tuesday, June 25** in the Hornet's Nest (WH8X)

    - Multi-threading and vectorization

        - Overview
        - Introduction to multi-threading and vectorization
        - Making code thread-safe
        - Multi-threading in *art*
        - Experience in learning to make code thread-safe

- **1:30 to 5:00 pm**

    - Long-term vision for LArSoft

        - Framing the problem
        - Computing in the time of DUNE
        - HPC computing solutions for LArSoft
        - Data management and workflow solutions
        - Experiment perspectives

LArSoft workshop 2019...

- 9:00 am to noon Tuesday, June 25 in the Hornet's Nest (WH8X)
  - Multi-threading and vectorization
    - Overview
    -
    -
    -
    -

- 1:30 t
  - Lo
    -
    - Computing in the time of DUNE
    - HPC computing solutions for LArSoft
    - Data management and workflow solutions
    - Experiment perspectives

Lots of time for discussion throughout

Will connect to zoom ID 831-443-820
Send comments or questions to larsoft-team@fnal.gov

See the LArSoft Workshop indico page to register
or for more details

Releases

- **Last week**

  – Released v08_22_00 on June 10

    - First release with *art* v3_02_06
    - First release with `nutools` v3_00_00
      - Initial phases of re-factoring to decouple Genie, Geant4 versions from LArSoft versioning

      Genie interface now in `nugen`

      NuRandomService moved to `nurandom`

    This is a breaking change
      - To fix private code, setup `nutools` 3, then run `UseNuRandom.sh` and/or `UseNuGen.sh`
      - Details on breaking changes wiki page

    Will be additional changes coming associated with `nutools` v3…

Releases

- ## This week

  - TrajCluster3D updates

  - More deprecated code removals

    - See issue #20618

  - `ifdhc_config` update to fix configuration bug

- ## Genie v3 and python 3 test releases

  - Test release v08_22_00_01, also this week

  - Will use Genie v3_00_04a, and optionally python 3

    - `setup larsoft v08_22_00_01 -q e17:prof`   python v2_7_15a

    - `setup larsoft v08_22_00_01 -q e17:prof:py3`   python 3_7_2 (SLF7 only, MacOS on demand)

  - Otherwise identical to larsoft v08_22_00

  Need experiment sign-off in order to complete migration

The end