LArSoft Coordination Meeting

Release and project report

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on behalf of
the SciSoft team
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Today’s agenda and speakers

- Release and project report (Erica)
- Container issues and LArBatch updates (Herb Greenlee)
- AOB

Releases

- Last few weeks
  - v09_17_02 released Mar 3, 2021
    - New features
      - larcorealg#15
        - *Avoid domain errors in computing TPC wire angles. Solves issue 25559*
      - Use nug4 v1_07_00
        - *Significant changes to MagneticField service*
        - *See issue 25534 for details*
        - *Adaptations and tests in larg4#22, larsim#65, lardata#14, larreco#28*
  - Bug fixes
    - webevd#29: fixes for SBND and ICARUS

Releases

- Last few weeks
  - v09_18_00 released Mar 10, 2021
    - New features
      - larreco#29:
        - *Updates in Cluster3D space point building for noise suppression in ICARUS*
        - *Use of option hig finding alg in GausHit to work around ROI "too short" errors*
      - webevd#30: protection against dropped products
      - larpandoracontent#20: (really bug fixes rather than new features…)
        - *Fixes exception in sliding linear fit for 3-hit cosmic ray clusters*
        - *Updates to fix some build issues*

Releases

- This week
  - Approved PRs
    - Expect the larbatch update discussed today
    - No other PRs ready

Status of PRs

- Under discussion
  - larcorealg#13: Geometry can tell TPC closest to an optical detector
    (opened Nov 30, 2020)
    - Meeting held to discuss questions raised by community.
    - Work has stalled since then
  - larsim#64: Refactor EventWeight interface to Genie v3
    - Notification and instructions distributed to experiments.
    - Awaiting consent to proceed (requested replies in time for next week's release)
- Approvals in progress
  - None

Other changes

- Tensorflow upgrade (previously discussed)
  - Upgrading from v1 to v2.3 (at request from DUNE)
  - tensorflow v2.3.1 is available on the LArSoft cvmfs, and is being tested
  - Plan to migrate as soon as testing is completed
  - Experiments / users should advise SciSoft team of any concerns

- Ubuntu support (previously discussed)
  - Continuing to work on shifting “best effort” support from LTS 18 to LTS 20
  - New: requires moving to gcc v9.3.0 (qualifier e20) from v8.2.0 (e19)
    - SBN noted issues with the combination of stan, eigen and e20
    - They are working on a solution
  - Have received no other comments, so will proceed with change as soon as SBN issues are resolved

Other changes

- Migration to cetmodules
  - Enabled (but not required) once we move to *art* 3.08
  - The plan will be to start using cetmodules across LArSoft as soon as possible after updating to *art* 3.08
  - Experiment feedback / questions are welcome

The end