LArSoft Coordination Meeting

Release and project report

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Today's agenda and speakers

- Release and project report (Erica)

- Migration of LArSoft repositories to GitHub (Patrick Gartung)

- Making EMShower thread-safe and related issues (Kyle Knoepfel)

- AOB

Releases

- ## Last week

  - ### v08_30_01 released Sept 5

    - Allow GausHitFinder to run w/o presence of raw::RawDigits ([issue #23196](#))
    - Note: no debug Mojave build is available for this release.
      - (Should be available for this week's release)

- ## This week

  - New version of root, art_root_io,...
  - Changes related to multi-threading
  - Change to Pandora shower start
    - On PCA instead of POCA to primary vertex

Repository maintenance: removing old feature branches!

We would like to remove feature branches that are no longer useful

- Have identified feature branches in core LArSoft repositories that have not been changed since being merged to develop

- These are candidates for removal

We propose removing all such feature branches immediately

The complete list of branches (and the script to identify them) list is here:
https://cdcvs.fnal.gov/redmine/projects/larsoft/wiki/Removing_old_feature_branches

Repository maintenance: removing old feature branches!

A non-exhaustive list of code authors with such feature branches

Christoph Alt
Andy Blake
Rachel Castillo
Giuseppe Cerati
Daniel Devitt
Kirsty Duffy
Brandon Eberly
Lorena Escudero
Andy Furmanski
Steve Gardiner
Herb Greenlee
Joel Greer
Wes Ketchum

Brian Kirby
Mike Kirby
Adam Lister
Varuna Meddage
Mike Mooney
Jon Paley
Gianluca Petrillo
Gray Putnum
Brian Rebel
Brooke Russell
Andy Smith
Jose Soto
Michelle Stancari

Jason Stock
Andrzej Szelc
Yuntse Tsai
Tracy Usher
Brett Viren
Hans Wenzel
Tingjun Yang
Joseph Zennamo

See https://cdcvs.fnal.gov/redmine/projects/larsoft/wiki/Removing_old_feature_branches for full details

Mac OS support

Previously conducted a survey of OS preferences within LArSoft community
- ● Will see the results of that survey soon

In light of the large effort required, small number of users served, and the reduced effort available, art / LArSoft teams plan to shed support for Mac OS

A couple of options available to the LArSoft community

1. Move to a different support model
   - ○ Identify someone else to provide builds as needed
2. Use containers on Mac's to build, run Linux-based releases
   - ○ This technique is used by several other experiments

Nothing changing immediately. Will have further discussion on this in coming weeks.

Comments on GitHub migration

A few comments in advance of next presentation on GitHub migration

- Have long understood that current integration model does not scale, is difficult to sustain
  - Are losing effort in the area of code and release management
- The CMS-based model of pull-requests offers a solution
- The cost:
  - More responsibility, effort for integration is borne by developers, experiments
  - Will see new roles that need to be staffed from experiments
- The benefit
  - More rapid integration cycles
- In coming weeks, months, will need to explore how exactly we move forward with this new model

The end