LArSoft Coordination Meeting

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Today's agenda and speakers

- Dual-phase TPC simulation in LArSoft for DUNE FD (Vyacheslav Galymov)

- DUNE MCC 5.0 preparations (I) (Dorota Stefan, Robert Sulej)

- Update on CI test suite deployment (Vito di Benedetto)

- Release and project report (Erica)

- Architecture report

- DUNE MCC 5.0 preparations (II) (Tingjun Yang, Mike Wallbank)

- AOB

Releases

- **Last week**

  - Normal weekly release

- **This week**

  - Version 04.30.00

  - This release will be production for DUNE 35t MCC 5.0

  - New libwda:

    - Now defines LIBWDA_INC

  - New nutools:

    - Changes to IFDatabase for DUNE

Changes to OSX builds

- The `ifdhc` product is now available on OSX (v1.8.7)

  - Can in principle use `ifdh` on OSX

    - See https://cdcvs.fnal.gov/redmine/projects/ifdhc/wiki/SuportedPlatforms

  - HOWEVER:

    - Need to have OSG client installed in order to use `ifchc` to transfer files

      - True for both Linux and OSX

    - There is no Mac OSX version, but there is (we believe) a work-around
      (Marc Mengel)

      - `ifdh_platform_pkgs` product
      - A binary-only install of 3rd party software
      - Installed on `cvmfs`, `/grid/fermiapp`, but need to install using `upd` for purely local releases
      - This solution is still in testing

  - Bottom line:

    - We will no longer build LArSoft with `noifdh` qualifier

    - A work-around for using `ifdh` under OSX is being tested

      - Will distribute instructions for using it when that is completed

A comment on editors and newlines, and other cosmetic changes

- Editors and newlines

  - There are varying conventions for newlines

    - Under Unix, the newline is the LF character (\n, 0x0A)

    - Unicode, http, many other standards require CR+LF (\r\n, 0x0D0A)

  - Most editors are tolerant of what is there.

    - Some will add \r to the end of every line of an existing file – this is BAD behavior

  If you diff such a file after committing it, every line shows up

  Please set your editors to leave existing LF's alone

- More generally, if you want to make cosmetic changes to a file
  (and we encourage making files easier to read…)

  - Isolate the cosmetic changes to a commit:

    - Make a commit with ONLY the cosmetic changes

    - Then and only then make substantive changes

  Otherwise, it is impossible to tell what changed

Coordination meeting time

- We are considering moving the meeting time

  - Want to accommodate as best we can people contributing to LArSoft from various regions.

- Would propose moving the meeting to 9:00 am or 10:00 am on alternating Tuesdays

  - The rooms situation becomes tighter

    - Would have only 1.5 hours maximum for any suitable meeting room in WH

- Thoughts? Any major objections?

  - If not, will send around email suggesting this change to get further comments.

Status of on-going sub-projects

- Architecture report (Gianluca)

- LArLite integration project (next week)

- Profiling and optimization project (no change)

- CI system upgrade project (Vito)

- Common document repository (no change)

The end