



LArSoft: status report

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Today's agenda

- Release and project report (Gianluca Petrillo)
- CVMFS repository for LArSoft (Lynn Garren)
- Status of vectorizing LArSoft code (Guilherme Lima)
- Discussion of new LArSoft event display requirements (*Erica Snider*)

LArSoft releases

Last week LArSoft release was $v06_70_01$:

- new MCParticle-level art filter contributed by Dominic Brailsford (SBND)
- solved issue with iterating wires of a "TPC set" (#19190)
- art has no special nu qualifier (you shouldn't care though)

Scheduled for the release this week:

- GENIE 2.12.10, if the experiments sign off (see last week slides)
 - MicroBooNE and ArgoNeuT have already signed off
 - this is the lowest version supporting Clang, i.e. we won't see full OSX support until we adopt it
- binaries distributed for: Scientific Linux Fermi 6 and 7, OSX 10.12 ("Sierra"), Ubuntu LTS16

Support for OSX

- from version 2.10, *art* only supports OSX with Clang compiler (c2 qualifier)
- LArSoft does not have a Clang distribution yet
 - Lynn is working on the case
 - some libraries don't like Clang (e.g. caffe)... investigating some love potions
- LArSoft and dependencies *happened* to compile on OSX with GCC (e15)
 - that's why we do have a partially supported distribution for OSX
 - but again, if things happen to break deep, we won't be able to help
- guess what? things do break deep, e.g. in the event display

Bottom line is: "Sorry."

Until we get to a Clang release, we can't guarantee a fully working OSX distribution.



Backward and forward compatibility

Can I read with a new art version files created with a older one?

- this "backward compatibility" is supported
- meaning, if it does not work, we will fix it

Can I read with an old art version files created with a newer one?

- this "forward compatibility" is not supported
- sometimes it looks like it's working:
 - it might be true, or it might be subtly corrupting your data
 - either way, you should expect it not to work



LArSoft's CVMFS

- LArSoft has obtained its own CVMFS area!
- let's talk about how to populate and use it...



Forecast for the next hour

Now on air:

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