



LArSoft Steering Group Meeting 12/11/24 Notes

Present: Adam Lyon, Tracy Usher, Herb Greenlee, Thomas Junk, Steven Gardiner, Giuseppe Cerati, Erica Snider, Katherine Lato

Summary:

- Reviewed 2024 work plan
- Discussed changes to effort in the coming year
- Reviewed 2025 work plan
 - Changes
 - Largely a continuation of things we worked on in 2024
 - Split first item – HPC and multi-threading – into two.
 - Separate advanced computing from more general optimization aimed at grid resource utilization.
 - Want to be able to track those separately
 - Added some things in response to input during meetings with experiments, in particular some of the infrastructure items. Hope to have effort to address these after the Spack migration
 - Some of these might benefit from the geometry refactoring. That work in part provided a model for allowing experiment-specific customizations within the geometry. Can follow that scheme to provide the same in other areas of the geometry
 - Event generator decoupling should be easier once under Spack. Steven Gardiner and a postdoc are ready to complete that work once Spack is deployed.
- The plan is approved for 2025.

Discussion:

- Hoping for more information aimed at release managers for Spack. Can we expect that in the future?
 - Noted the need for a tutorial. End users will need that and elements of that aimed for release managers. Will forward specific questions to Erica, Kyle and Marc Paterno
 - Acknowledge need for two tutorials, one for end-users/developers, one for release managers
- Discussed how we get from where we are to a place where tutorials make sense. Right now, we are hearing only about LArSoft. Users, however, start from experiment code
 - Getting this part of the picture first because these were the big open questions for a long time – how do we do development with Spack, and how do we create releases. Before we could do the migration, we had to solve those problems.
 - There's much more to the picture and will try to address that as part of the migration plan once we finalize everything.

- Noted that there will be a period when both systems exist in parallel, even though we will be using only one in production. System designed to allow that. Will need to work through the vertical slices before the migration, so expect those will be available as we begin tutorials.
- Will know more as we develop the migration plan. Will keep everyone informed, and seek input as we go.

Please email [Katherine Lato](#) or [Erica Snider](#) for any corrections or additions to these notes.