

DUNE FD/Prototypes Software Status

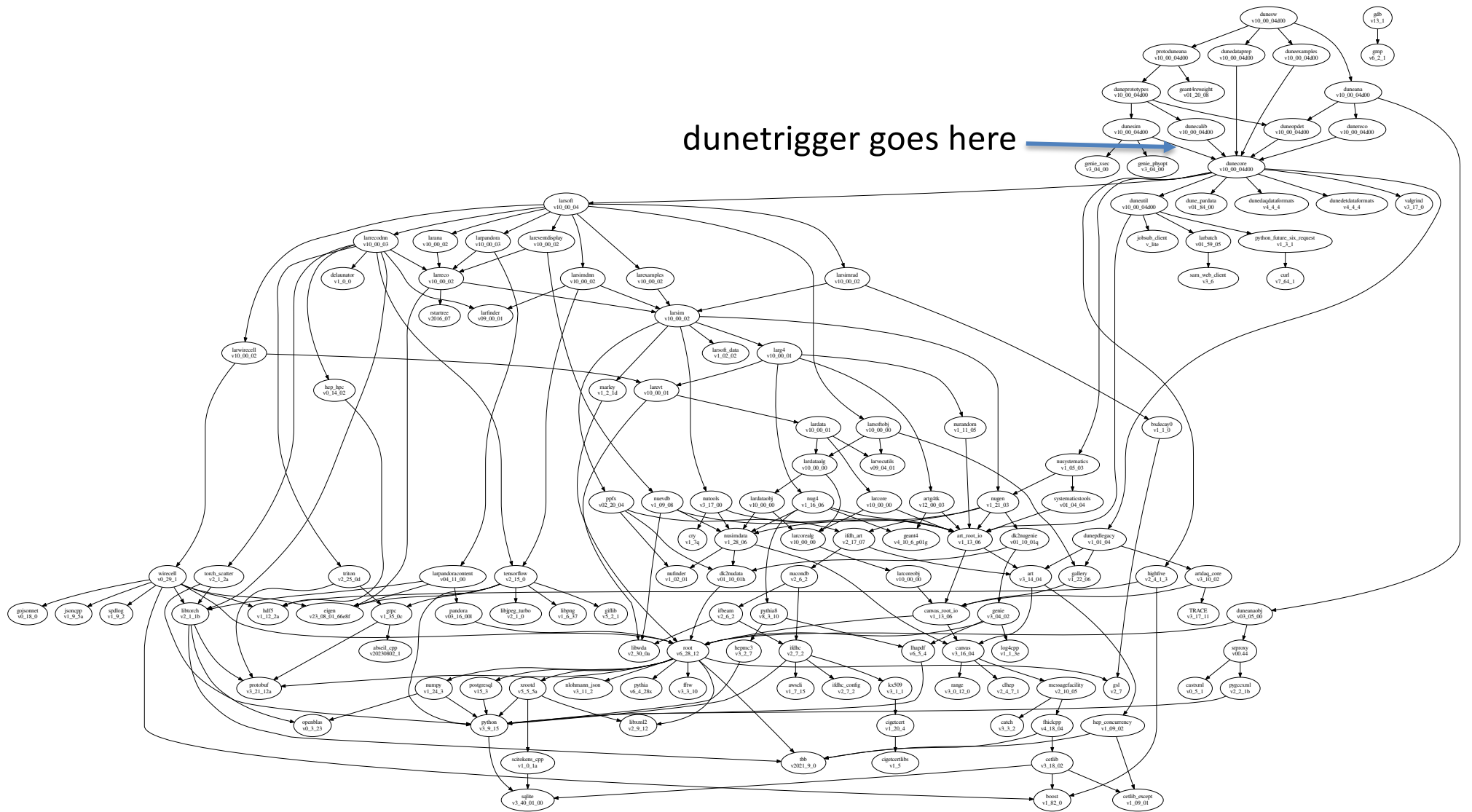
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DUNE Software Architecture and Management

December 6, 2024

dunetrigger Integration

- dunetrigger is now part of the dunesw stack
 - repo in DUNE github org with software manager permissions
 - added to dune_suite checkout in mrb (this is what forces us to get it fully integrated. A checkout of dune_suite must build).
 - directory and index in scisoft.fnal.gov web volume (not yet filled)
 - UPS-isms and cetbuildtools taken out of develop CMakeLists.txt files
 - Added between dunesim and dunecore in UPS dependency tree
 - Added in CI build workflows
 - Added to version updating python script for releases
 - v10_01_03 tagged and builds interactively. CI passes.
- To-do: Spack recipe



dunetrigger goes here

dunetrigger Status

- Questions of versioning – what happens if trigger algorithms evolve in the DAQ? We may need to simulate old and new algs offline, on the same events. And compare new data taken with new triggers with old data taken with old triggers.
- Prefer managing our own copy in case we need to change the code or keep several versions. Build-time code tweakers make understanding what's in GitHub harder.
- A bigger issue raised by Dom – the raw digits are not saved in the FD or ProtoDUNE MC workflows
 - They are simulated and then deconvolved in the same job, and discarded!
 - Trigger sim will have to be inserted inside this loop

CI done and to-do

- Vito added Tom as a manager on the Redmine lar_ci page so he could add and subtract users.
- We still have some old DUNE software managers on there who have since moved on. And some new ones!
 - done: removed Christoph Alt and Chris Hilgenberg as developers – added Andrew Olivier
- We ought to disable most integration tests on Clang due to missing TensorFlow
- Add more test coverage.

CI Reference Histograms Update

- Reference histograms still cannot be updated due to token authentication not yet working.
- Vito asked for a duneci shared account to help with this, and managed token with the CI role
- DUNE software managers will presumably have to log on as duneci to trigger reference histogram updates
- And file ownership/permissions in StashCache for CI workflows need to be updated (I can do this).