CI operation report

LArSoft Coordination Meeting

October 11, 2016

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CI operation: status

- CI builds run for SLF6 and Mac OS 10.10 (Yosemite) platforms.
- μBooNE, DUNE, LArIAT and ArgoNeuT codes run in the CI system.
- Currently there are:
 - 188 running unit tests;
 - 53 (+10) CI tests:
 - 19 running as default; standard experiment workflow, single event, tests run in parallel.
 - 10 new CI tests (5 DUNE FD; 5 ProtoDUNE) are under testing.
 - 19 running when a new tag of LArSoft and experiment code is released (manual trigger of the CI build); standard experiment workflow, 10 events, CI tests run in sequence;
 - these CI tests are part of the second tier of CI test suites.
- Second tier of CI test suites under development:
 - is intended to extend the existing set of CI test suites to cover more use cases.
 - Test new/more experiment's workflows?
 - Soon I'll ask a meeting with the experiment contact person on this purpose.

DUNE:

- Mac OS and SLF6 CI builds:
 - CI test issue in detsim stage:
 - A code change intended for debugging (zero suppression disabled) was committed; all the channels had signal. [FIXED]
 - Possible issue in detsim stage:
 - the random stream "opdigi" in module "OpDetDigitizerDUNE" can't be set as FHiCL parameter;
 - to guarantee the reproducibility in the detsim CI test I use: services.RandomNumberGenerator.restoreFrom: "DetSimRandomSeeds_Ref_dune35t.dat" services.RandomNumberGenerator.saveTo: "DetSimRandomSeeds.dat"
- Current reference files generated using LArSoft v6_06_00.
- 2 new CI tests suites are under testing:
 - quick_test_dunefd: includes 5 new CI tests for DUNE FD;
 - quick_test_ProtoDUNE: includes 5 new CI tests for ProtoDUNE.

μBooNE:

- In Mac OS CI build the generation stage fails: [Pending]
 - CORSIKA interface uses "ifdh Is", this is not fully supported on Mac OS.
 - ifdhc v2_0_0 released few days ago;
 - is be able to address this issue with some change;
 - use "ifdh findMatchingFiles" instead of "ifdh Is";
 - "ifdh findMatchingFiles" provides the list of matching files with the filesize, it is needed to strip off the filesize
 - ifdh findMatchingFiles <path> <pattern>
 - /pnfs/uboone/persistent/users/mibass/corsika/sqShowers/p_showers_001002.db

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• Mac OS and SLF6 CI builds:

- Unit test issue (production.sh and test_fcl.sh) due to a missing ":"
 in a FHiCL parameter in reco_uboone_mcc7.fcl
- Current reference files generated using LArSoft v6_08_00.

LArIAT:

- SLF6 and Mac OS CI builds:
 - Issue in slicer stage:
 - the output filename should have '%#' in it:
 - needs to be propagated to the CI tests. [working in progress]
 - Issue in reco2D stage: [New]

%MSG-s ArtException: TrajCluster:trajcluster@Construction 11-Oct-2016 01:22:28 CDT ModuleConstruction cet::exception caught in art

---- Configuration BEGIN

Invalid SkipAlgs specification

---- Configuration END

%MSG

Art has completed and will exit with status 9.

• Seems to be related to a commit in larreco:

commit d6b0ef7235b1a3a1c262766357adf434f4b8a721

Author: Bruce Baller

Date: Mon Oct 10 11:54:27 2016 -0500

Throw an exception if SkipAlgs isn't configured properly. Ongoing development of Refine2DVertices. Add CheckWireHitRange. Work on EraseHit and CreateHit.

• Current reference files generated using LArSoft v06 07 00.

ArgoNeuT:

- SLF6 and Mac OS CI builds:
 - Cl tests: reco stage
 - data product size change [New]
- Current reference files generated using LArSoft v06_08_00.

The End