CI operation report

LArSoft Coordination Meeting

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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 CI tests:
    - 19 running as default; standard experiment workflow, single event, tests run in parallel.
    - 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?
  - Some experiment needs a specific CI test to be implemented?
  - These CI tests can be executed on demand/nightly/per release/...

CI operation: status/issues

DUNE:

- **Mac OS and SLF6 CI builds:**

  - dunetpc rev 6cdb962e: changes of "`t0counter`" data products for reco stage
    - Changes expected; generate a new set of reference files.

  - dunetpc rev 2ea5d21: changes of "`hitcheat`" and "`caldata`" data products for reco stage;
    - Changes unexpected (https://cdcvs.fnal.gov/redmine/issues/13803);
    - Fixed in dunetpc rev 178e59a.

  - dunetpc rev d407bacf: unit test `test_InterpolatingAdcMitigationService` and `test_StandardRawDigitPrepService` failed;
    - missing InterpolatingAdcMitigationService library;
    - fixed in dunetpc rev 178e59a.

CI operation: status/issues (cont'd)

DUNE:

- **Mac OS and SLF6 CI builds:**

  - dunetpc rev 5970f392:
    - changes of "daq" data product for detsim stage;
    - changes of 150 data products for reco stage;
      - changes expected;
      - new set of reference files provided.

- Reference files generated using LArSoft v6_06_00.

CI operation: status/issues

µBooNE:

● **In Mac OS CI build the generation stage fails:** [Pending]

- CORSIKA interface uses "ifdh ls", this is not fully supported on Mac OS.
- ifdhc b2_0_0 (beta) available in UPS, should be able to address this issue.
  - Test is in progress.

● **Mac OS and SLF6 CI builds:**

- Unit test production.sh failed in `reco_uboone_mcc7_driver_stage1` [Fixed].
  - Error message:

  `Service  unable to find requested service with compiler type name 'geo::UBOpReadoutMap'.`

  - Fix: Added configuration of service UBOpReadoutMap in standard fcl.

- uboonecode rev 5faa4bb6: changes of data products for detsim and reco1 stages.
  - Changes expected, new set of reference files provided.
- Reference files generated using LArSoft v6_05_00.

CI operation: status/issues

LArIAT:

- **SLF6 and Mac OS CI builds:**
  - No issues.

  - Reference files generated using LArSoft v06_04_00.

CI operation: status/issues

ArgoNeuT:

● **SLF6 and Mac OS CI builds:**

    • No issues.

    • Reference files generated using LArSoft v06_04_00.

The End