LArSoft/ LArLite Integration

8/30/16 Ariana Hackenburg

> Luke Simons Erica Snider Kazu Terao

Outline

Development model

- Task list: what's been done, what still needs work
 - --Algorithms
 - --FHICL, Services, Objects
 - --Drivers

Development model: repositories

LArSoft repositories

larcore lardata larevt larreco

Shared repositories

lardataobj larcoreobj larsimobj

larcorealg lardataalg

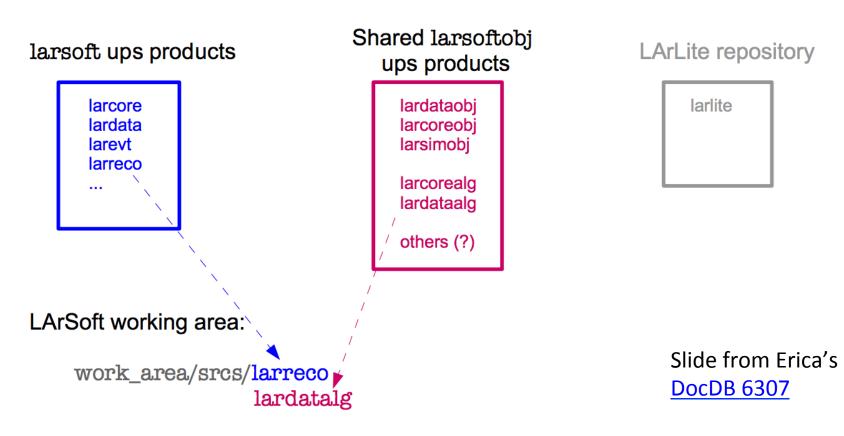
others (?)

LArLite repository

larlite

Slide from Erica's DocDB 6307

Development model: LArSoft



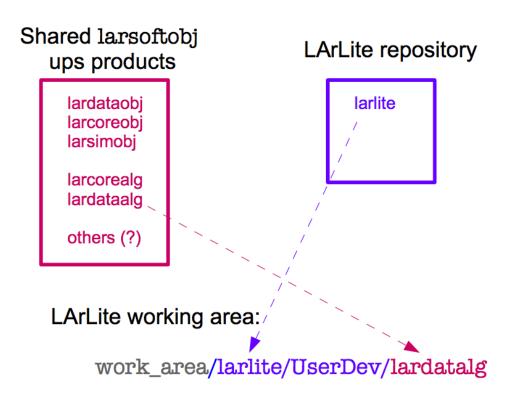
mrb g larsoft / shared repository(ies)
Build against remaining larsoft / shared ups products

Development model: LArLite

larsoft ups product

larcore lardata larevt larreco

Slide from Erica's DocDB 6307



git clone shared repository(ies)
Build against remaining shared ups products

Outline

Development model

- Task list: what's been done, what still needs work
 - --Algorithms
 - --FHICL, Services and Objects
 - --Drivers

Flash Matching Integration – (08/15/16)

Tasks

 Move algorithm code to shared repository 	[done]
--	--------

- Develop algorithm validation test(s) (without data objects) [done]
- Check that tests produce same results in LArSoft and LArLite [in progress]
- Migrate use of data products to shared versions [in progress]
- Migrate to use of FHICL parameter sets [done]
- Migrate to use of shared LArSoft service providers [in progress]
- Decide how to handle PhotonLibraryService (thoughts?)[not started]
- Update LArLite Driver to contain shared data products, services [not started]
- Write LArSoft Driver that uses shared code [not started]
- Once drivers are done, develop integration test, compare results [not started]

Flash Matching Integration – (08/30/16)

Tasks

 Move algorithm code to shared repository 	[done]
--	--------

- Develop algorithm validation test(s) (without data objects) [done]
- Check that tests produce same results in LArSoft and LArLite [done]
- Migrate use of data products to shared versions [done]
- Migrate to use of FHICL parameter sets [done]
- Migrate to use of shared LArSoft service providers [done]
- Decide how to handle PhotonLibraryService (thoughts?)[not started]
- Update LArLite Driver to contain shared data products, services [done]*
- Write LArSoft Driver that uses shared code [not started]
- Once drivers are done, develop integration test, compare results [not started]

Other Things

Luke added a page to the wiki on usage of shared repositories: Flash Matching Wiki

All information about grabbing shared repositories, dependencies and running algorithms test can be found here

Summary

- Flash matching algorithms live in shared lardataalg repository, and produce same validation results individually in larsoft and larlite
- Migration of data products and services necessary to run flash matching nearly complete (exception: PhotonLibraryService)
- Still need to write larsoft driver and develop integration tests to check the drivers
- Thanks to Luke for his work on the flash match integration!