

Splitting dunetpc

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DUNE Software Architecture Meeting

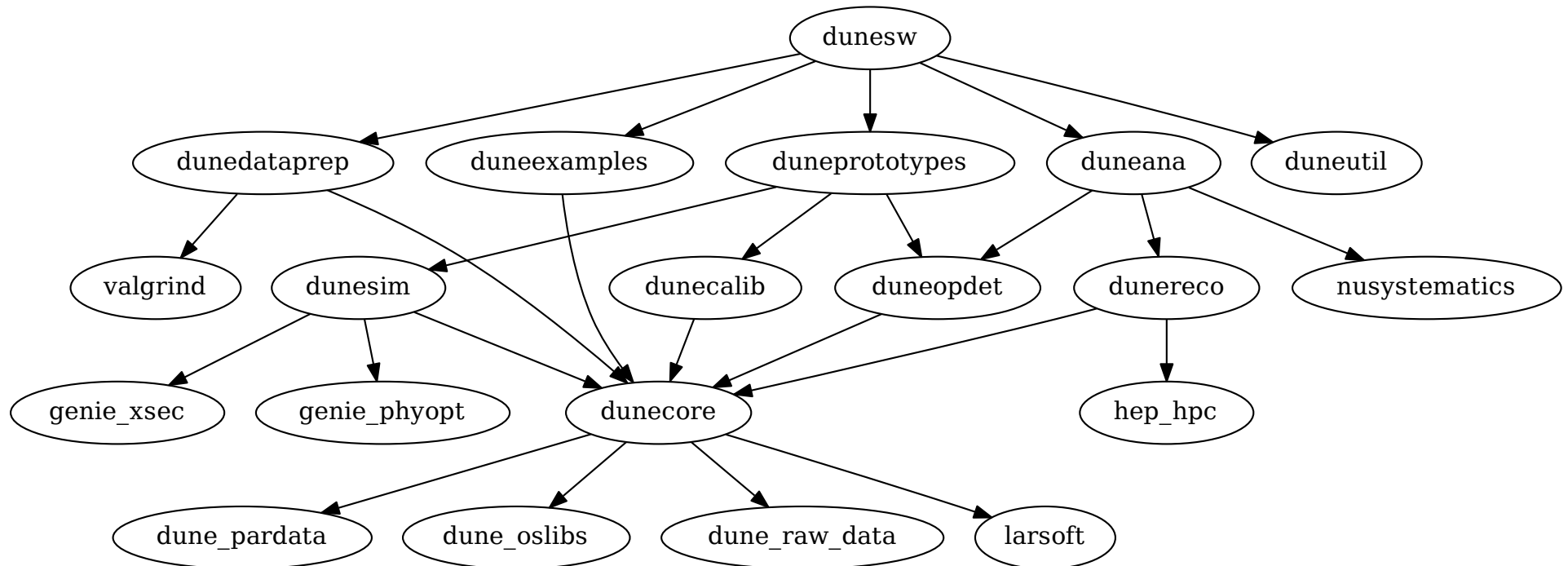
July 14, 2021

Grouping Directories

- Proposed new products:
 - dunesw
 - dunecore
 - duneopdet (has sim, calib, reco and ana components)
 - dunesim
 - dunecalib
 - duneprototypes
 - dunedataprep
 - dunereco
 - duneana
 - duneexamples
 - ~~– duneconfig~~

Proposed Split UPS Dep. Tree

Also shows external dependencies



Only one point of dependency on LArSoft – one number to update in product_deps, but need to update the version numbers of the dune products on each release.

The Grouping

dunetpc Directory	product
3x1x1dp	duneprototypes
APAIO	do not migrate
AnaTree	duneana
AnaUtils	dunereco
ArtSupport	dunecore
BeamData	duneprototypes
CAFMaker	duneana
CFilter	do not migrate
CVN	dunereco
CalData	dunedataprep
Calib	dunecalib
CalibServices	dunecalib
ClusterFinderDUNE	dunereco
DAQSimAna	duneana
DAQTriggerSim	dunecore
DUNEPandora	dunereco
DUNEWireCell	dunereco
Daq	do not migrate
DataPrep	dunedataprep
DetSim	dunesim
DetectorVariations	dunesim

The Grouping, cont'd

DuneCommon	dunecore
DuneExample	duneexamples
DuneInterface	dunecore
DuneObj	dunecore
DuneObjDumpers	dunecore
DuneServiceAccess	dunecore
EnergyStudies	duneana
EventFilters	duneana
EventGenerator	dunesim
FDSensOpt	dunereco
GalleryScripts	duneexamples
Geometry	dunecore
HitAnalysis	duneana
HitFinderDUNE	dunereco
Iceberg	duneprototypes
InfillChannels	dunereco
LArG4	dunesim
OpticalDetector	duneopdet
PandoraAnalysis	duneana
PhotonPropagation	dunesim
ProductFilters	duneana
Protodune	duneprototypes

The Grouping, cont'd

RecoAlgDUNE	dunereco
RegCNN	dunereco
SNSlicer	dunereco -- but not built (as per dunetpc)
SNUtils	dunereco -- but not built (as per dunetpc)
ShowerAna	duneana
SimFilter	dunesim
Simulation	dunesim
SpaceCharge	dunesim
SpaceChargeServices	dunesim
SupernovaAna	duneana
TrackFinderDUNE	dunereco
TrackPID	dunereco
TrackingAna	duneana
Utilities	dunecore
VLNets	dunereco

Split Scripts

- Copy code from a checked-out test release of dunetpc into a separate test release
- Supply new CMakeLists.txt files (for the main directory – subdirectories are fine as they are)
- Supply new product_deps files
- Edit #include statements to point to header files' new locations
- Edit CMakeLists.txt files to point to libraries' new names (they have their UPS product names in front)

These editing steps are done with sed, in scripts. Can be redone if we change our minds. And kept around to fix protoduneana and user code.

Updated to v09_26_00 – edited my own copies of product_deps files by hand.

dunetpc

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root / fcl / common @
develop

[Statistics](#)

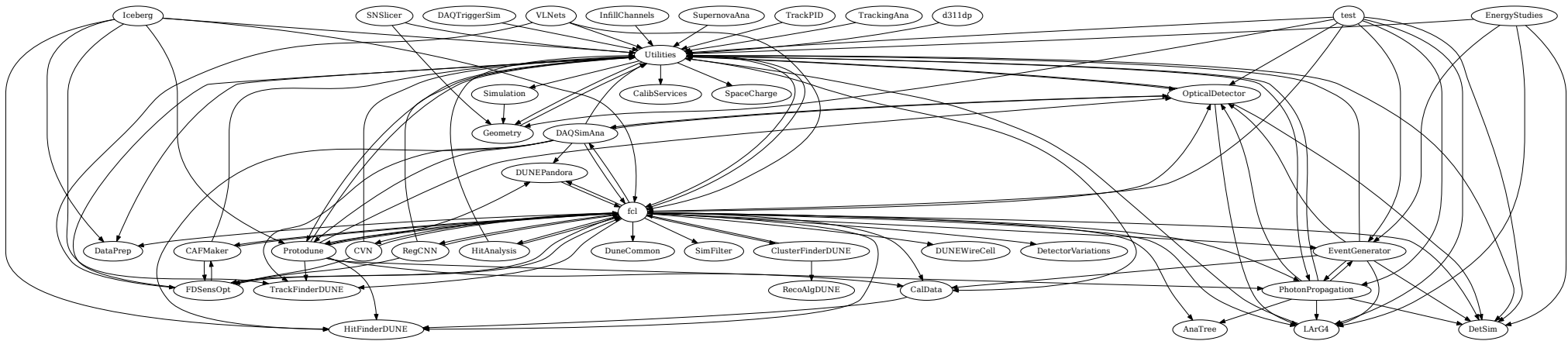
| Branch:

develop



Name	Size	Revision	Age	Author
CMakeLists.txt	237 Bytes	ab0ab08e	about 4 years	David Adams
SpacePointSolver_dune.fcl	450 Bytes	b2be7ddf	about 2 years	Tingjun Yang
backtrackerservice_dune.fcl	347 Bytes	be63b297	4 months	Tingjun Yang
calibration_dune.fcl	1.11 KB	87c6d425	about 2 months	Tingjun Yang
calorimetry_dune10kt.fcl	716 Bytes	30d2d912	almost 2 years	Tingjun Yang
calorimetry_dune35t.fcl	1017 Bytes	30d2d912	almost 2 years	Tingjun Yang
calorimetry_pdune.fcl	4.38 KB	87c6d425	about 2 months	Tingjun Yang
featurelabelingmodules.fcl	1.47 KB	62a277d4	4 months	Tingjun Yang
particleinventoryservice_dune.fcl	398 Bytes	78b6b149	almost 2 years	Tingjun Yang
time_memory_tracker_dune.fcl	272 Bytes	9a58e903	almost 2 years	Tingjun Yang
tools_dune.fcl	212 Bytes	ceaae40d	over 1 year	Vyacheslav Galymov

The FCL #include dependency graph



News this week

- Dom Brailsford says he is "rearranging dunetpc for an upcoming far detector production. A lot of the rearranging is far detector related but I am rearranging the services and separating the services into dedicated experiment fcls."

https://github.com/absolution1/dunetpc/blob/feature/dbrailsf_refactor/dune/Utilities/services_dune.fcl

I don't think this is a conflict – in fact it helps.

Extras