

art - Feature #1918

Thinking ahead to event mixing and art::Ptr to run product

09/24/2011 01:21 PM - Rob Kutschke

Status: Accepted	Start date: 09/24/2011
Priority: Normal	Due date: 01/01/2014
Assignee:	% Done: 0%
Category: Metadata	Estimated time: 320.00 hours
Target version:	Spent time: 0.00 hour
Scope: Internal	SSI Package:
Experiment: -	
Description	
Related issues:	
Related to art - Feature #1214: Ptr to Run or SubRun product	Assigned 07/25/2013 01/01/2014

History

#1 - 09/24/2011 01:31 PM - Rob Kutschke

This is a heads up for something that will be important later on.

Mu2e currently has one Run scope data product that holds a summary of the Geant4 geometry; it is an `std::vector<mu2e::PhysicalVolumeInfo>`. A number of our event scope data products currently hold indices into this Run data product. Sometime soon we expect to have `art::Ptr` from an event data product into run data products. At that time we need to deal with event mixing and these objects.

First, I would like it to be an error if people try to mix files in which this particular data product differs. So we only need one copy, not multiple copies, of the run data product. We might also need a remapper for this sort of `Ptr` (or maybe not, if, in all files, the run data product has the same product ID)?

#2 - 12/09/2011 04:35 PM - Walter E Brown

- Category set to Metadata
- Status changed from New to Accepted

#3 - 08/02/2013 01:57 PM - Christopher Green

- Due date set to 01/01/2014
- Target version set to 2.01.00
- Estimated time set to 320.00 h
- Scope set to Internal
- Experiment - added

The time estimate reflects the fact that this requires two significant infrastructure changes: the metadata revolution and the resolution of the broken abstraction that is `art::Principal` and friends.

#4 - 11/03/2015 09:58 AM - Marc Paterno

- Target version changed from 2.01.00 to 521

#5 - 10/23/2017 12:12 PM - Kyle Knoepfel

- Target version deleted (521)