

## art - Feature #19306

### create Ptr to product

03/07/2018 09:06 AM - Raymond Culbertson

|                         |                                    |
|-------------------------|------------------------------------|
| <b>Status:</b> Accepted | <b>Start date:</b> 03/07/2018      |
| <b>Priority:</b> Normal | <b>Due date:</b>                   |
| <b>Assignee:</b>        | <b>% Done:</b> 0%                  |
| <b>Category:</b>        | <b>Estimated time:</b> 40.00 hours |
| <b>Target version:</b>  | <b>Spent time:</b> 0.00 hour       |
| <b>Scope:</b> Internal  | <b>SSI Package:</b> art            |
| <b>Experiment:</b> Mu2e |                                    |

#### Description

The art:Ptr<T> can only be used to point to an object inside a indexed container of T, so logically it contains the productID and an index. An example is a track might contain art::Ptr's to hits in a product which is a vector of hits. We have some use cases where we would like one product to point to another product, in total. For example, the track collection product could contain a pointer to the hit collection, simply to say "this track collection was created from this hit collection" or to create a product which is a list of pointers to a logically associated, but diverse in type, set of products. So logically this new art::ProductPtr<T> would contain a productID, be persistable, and dereference to T\*. Another thought, which I have no idea is possible under the covers or reasonable, is to make art::Handle<T> persistent.

#### Related issues:

Related to art - Support #19143: event.get method acting unexpectedly

Closed

02/26/2018

#### History

##### #1 - 03/09/2018 11:28 AM - Kyle Knoepfel

- Related to Support #19143: event.get method acting unexpectedly added

##### #2 - 03/12/2018 11:47 AM - Kyle Knoepfel

- Status changed from New to Accepted

- Estimated time set to 40.00 h

We will provide a persistable art::ProductPtr.