

art - Feature #17087

Hermetic error message on mismatching product ID and data type

06/29/2017 05:14 PM - Gianluca Petrillo

Status:	Closed	Start date:	06/29/2017
Priority:	Normal	Due date:	
Assignee:	Kyle Knoepfel	% Done:	100%
Category:	Navigation	Estimated time:	8.00 hours
Target version:	2.08.03	Spent time:	1.00 hour
Scope:	Internal	SSI Package:	art
Experiment:	LArSoft		

Description

I just used `art::Event::get()` specifying a product ID and a handle to the wrong data type. My bad, and good that `art` threw a `LogicError` exception. The message, though:

```
%MSG-s ArtException: PostEndJob 29-Jun-2017 16:59:22 CDT ModuleEndJob
cet::exception caught in art
---- OtherArt BEGIN
---- EventProcessorFailure BEGIN
EventProcessor: an exception occurred during current event processing
---- EventProcessorFailure BEGIN
EndPathExecutor: an exception occurred during current event processing
---- ScheduleExecutionFailure BEGIN
Path: ProcessingStopped.
---- LogicError BEGIN
Handle<T> c'tor cet::exception going through module
---- LogicError END
Exception going through path end_path
---- ScheduleExecutionFailure END
---- EventProcessorFailure END
---- EventProcessorFailure END
---- OtherArt END
%MSG
```

could have been clearer. Something like "product ID 1:2 contains 'std::vector<Blah>' and can't be read via `Handle<std::vector<Oops>>`." or so.

Seen in art v2_07_03.

History

#1 - 07/05/2017 12:02 PM - Marc Paterno

- Category set to Navigation
- Status changed from New to Assigned
- Assignee set to Kyle Knoepfel
- Estimated time set to 8.00 h
- Experiment LArSoft added
- Experiment deleted (-)
- SSI Package art added

We will improve the information content of the error message.

#2 - 07/10/2017 11:37 AM - Kyle Knoepfel

- Status changed from Assigned to Accepted

Upon further investigation, we have determined that the context system must be revised to be able to provide more helpful information. Doing such a revision is slated to be part of the multi-threading endeavor.

#3 - 07/10/2017 11:38 AM - Kyle Knoepfel

- Blocked by Feature #15388: Put context information into exceptions in the places where framework code intercepts them added

#4 - 08/28/2017 11:26 AM - Kyle Knoepfel

- Has duplicate Bug #17556: Missing module label in exception message added

#5 - 08/28/2017 03:19 PM - Kyle Knoepfel

- Blocked by deleted (Feature #15388: Put context information into exceptions in the places where framework code intercepts them)

#6 - 08/28/2017 03:25 PM - Kyle Knoepfel

- Status changed from Accepted to Resolved

- Target version set to 2.09.00

- % Done changed from 0 to 100

It turns out that resolving this issue was simpler than I feared. Implemented with commit [art:f7d41778](#).

#7 - 08/28/2017 03:25 PM - Kyle Knoepfel

- Has duplicate deleted (Bug #17556: Missing module label in exception message)

#8 - 08/30/2017 03:58 PM - Kyle Knoepfel

- Target version changed from 2.09.00 to 2.08.03

#9 - 08/30/2017 04:02 PM - Kyle Knoepfel

- Status changed from Resolved to Closed