

## art - Feature #20575

Milestone # 20573 (Closed): Separate ROOT from core framework functionality

### Migrate ROOT-dependent art facilities to art\_root\_io

08/09/2018 10:55 AM - Kyle Knoepfel

<b>Status:</b>	Closed	<b>Start date:</b>	08/09/2018
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Kyle Knoepfel	<b>% Done:</b>	100%
<b>Category:</b>	Infrastructure	<b>Estimated time:</b>	16.00 hours
<b>Target version:</b>	3.02.00	<b>Spent time:</b>	16.00 hours
<b>Scope:</b>	Internal	<b>SSI Package:</b>	art
<b>Experiment:</b>	-		
<b>Description</b>			
This step includes moving all user interface and <i>art</i> -specific tests that require ROOT to an <i>art_root_io</i> repository.			
<b>Related issues:</b>			
Blocked by art - Feature #20593: Separate ROOT initialization from core art c...		<b>Closed</b>	<b>08/13/2018</b>
Blocked by art - Feature #20594: Make MixHelper I/O agnostic		<b>Closed</b>	<b>08/13/2018</b>
Blocks art - Feature #20576: Create umbrella UPS product that sets up art and...		<b>Closed</b>	<b>08/09/2018</b>

### History

#### #1 - 08/09/2018 11:00 AM - Kyle Knoepfel

- Subject changed from Migrate ROOT-dependent art utilities to *art\_root\_io* to Migrate ROOT-dependent art facilities to *art\_root\_io*

#### #2 - 08/13/2018 09:01 AM - Kyle Knoepfel

- Estimated time set to 16.00 h

#### #3 - 08/13/2018 09:02 AM - Kyle Knoepfel

- Blocked by Feature #20593: Separate ROOT initialization from core art concepts added

#### #4 - 08/13/2018 09:02 AM - Kyle Knoepfel

- Blocked by Feature #20594: Make MixHelper I/O agnostic added

#### #5 - 08/13/2018 09:02 AM - Kyle Knoepfel

- Blocks Feature #20576: Create umbrella UPS product that sets up art and *art\_root\_io* added

#### #6 - 08/17/2018 11:56 AM - Kyle Knoepfel

- Target version set to Vega

#### #7 - 08/22/2018 11:28 AM - Kyle Knoepfel

- Status changed from Accepted to Resolved

- Assignee set to Kyle Knoepfel

- Target version changed from Vega to 3.01.00

- % Done changed from 0 to 100

- SSI Package art added

All *art* facilities that depend on ROOT, including any tests, have been moved from [art](#) to [art\\_root\\_io](#). Various complications arose during this migration:

- Since *art\_root\_io* contains underscores, it was necessary to provide the ALLOW\_UNDERSCORES flag to the simple\_plugin CMake macro. This does not cause any problems because any *art\_root\_io*-provided module names themselves do not contain underscores.
- Various modules in *art/test/Integration* are also required by *art\_root\_io*. Those test-only modules thus need to be installed. In the future, we may wish to create an intermediate package that contains the modules that can be used by integration tests in both *art* and *art\_root\_io*.
- The *art\_make* CMake macro supports dictionary creation. Since *art\_make* is located in *art*, and *art* no longer depends upon ROOT, it was necessary to add introspection so that any user who wishes to create dictionaries via *art\_make* must add `include(ArtDictionary)` in his/her

CMakeLists.txt file.

**#8 - 09/26/2018 10:05 AM - Kyle Knoepfel**

- *Target version changed from 3.01.00 to 3.02.00*

**#9 - 01/31/2019 02:01 PM - Kyle Knoepfel**

- *Status changed from Resolved to Closed*