

art - Feature #3191

Create an analogue to artapp that accepts the art configuration as a string argument

12/18/2012 09:24 AM - Kurt Biery

Status:	Closed	Start date:	12/18/2012
Priority:	Normal	Due date:	
Assignee:	Kurt Biery	% Done:	100%
Category:	Application	Estimated time:	0.00 hour
Target version:	1.03.03	Spent time:	0.00 hour
Scope:	Internal	SSI Package:	
Experiment:	-		

Description

In DS-50 DAQ, configuration information will be sent to the MPI program elements via XMLRPC. This will include the configuration of the compression and filtering algorithms in art. At the moment, the artapp function that is available to allow art to be run from the EventStore class accepts a configuration filename rather than a configuration string. It sounds like what is needed is a new function that takes the configuration string directly.

Here are some email excerpts on this subject:

Kurt:

[To Marc] I like your idea of creating a new function that is similar to artapp but is fed the art configuration via a different mechanism than a disk file (maybe as a const std::string reference?). This would allow the full configuration to be sent to the eventbuilder and aggregator processes via XMLRPC.

Chris:

Unfortunately, it would not be sufficient to replace artapp.cc in this case. The "-c" option is handled by the BasicOptionsHandler, which is controlled by run_art. We would need to re-organize things slightly to allow an artapp replacement to change how the base configuration is obtained.

Related issues:

Related to art - Feature #3492: FHICL_FILE_PATH policy for the command line -... **Closed** **02/19/2013**

History

#1 - 04/16/2013 03:46 PM - Christopher Green

- Category set to Application
- Status changed from New to Resolved
- Assignee set to Kurt Biery
- Target version set to 1.03.03
- % Done changed from 0 to 100

Implemented with commits [04045cc2bbf4c1573abf0d2c93fa3c3416e14502](#) and [10137be36a2dc8df2e2f5db90f476da8bc70f49d](#). Implementation revised slightly with [e94e0d7ca6dc4be6db01300e595abb05c9b8372f](#) for art [1.03.06](#)

#2 - 04/23/2013 10:08 AM - Christopher Green

- Status changed from Resolved to Closed