

artdaq - Feature #22535

Idea # 22529 (New): Support the (proto)DUNE DFO Model in artdaq

RoutingNetOutput plugin: A version of BinaryNetOutput that receives Routing Tokens

05/07/2019 09:26 PM - Eric Flumerfelt

Status: New	Start date: 05/07/2019
Priority: Normal	Due date:
Assignee:	% Done: 0%
Category:	Estimated time: 0.00 hour
Target version:	Co-Assignees:
Experiment: -	
Description	
Part of the DFO infrastructure is a DataReceiver application (similar to EventBuilder, DataLogger, and Dispatcher), which receives data from the software triggering system, and determines the destinations on an event-by-event basis.	
This could be accomplished by a version of BinaryNetOutput which uses a TokenReceiver class and RoutingPolicy to determine where to send data (triggering Requests to pull-mode BoardReaders).	

History

#1 - 06/07/2019 01:19 PM - Kurt Biery

- File *artdaqBranches_07Jun2019.pptx* added

I haven't actually started working on the RoutingNetOutput module, but I wanted to capture some diagrams that show the branches that will likely feed into this.

Please see the attached file.

#2 - 06/07/2019 01:31 PM - Kurt Biery

- File *deleted (artdaqBranches_07Jun2019.pdf)*

#3 - 06/07/2019 01:31 PM - Kurt Biery

- File *artdaqBranches_07Jun2019.pdf* added

#4 - 06/12/2019 09:57 AM - Kurt Biery

I've created *working/22535_protoDFO_testing* branches in both that *artdaq_core* and *artdaq* repositories. The merges shown in the attached slides have been done as part of creating these branches.

In addition, I've started modifying the code on this branch in the *artdaq* repo to start demonstrating the prototype DFO functionality. (for example, adding the *RoutingNetOutput_module*.)

There are lots of questions about how to handle things that I'm deferring, for now, in order to have something to test at *protoDUNE*, and of course, we'll need to come back to those questions.

#5 - 06/12/2019 10:09 AM - Kurt Biery

I've also created a *working/22535_protoDFO_testing* branch in the *artdaq-utilities-daqinterface* repo with tentative changes to *DAQInterface* to support the *RoutingNetOutput_module*.

#6 - 06/20/2019 09:59 AM - Kurt Biery

- File *artdaqBranches_19Jun2019.pdf* added

Uploading a new file with an updated picture of the branches (added *working/22535_protoDFO_pduneHacks*).

#7 - 06/26/2019 03:58 PM - Kurt Biery

- File *artdaqBranches_26Jun2019.pdf* added

Uploaded a new document with pictures of branches in various repositories - added *artdaq-demo*, *mpich-plugin*, and *daqinterface*.

Files

artdaqBranches_07Jun2019.pdf	36.4 KB	06/07/2019	Kurt Biery
artdaqBranches_19Jun2019.pdf	47.3 KB	06/20/2019	Kurt Biery
artdaqBranches_26Jun2019.pdf	59.1 KB	06/26/2019	Kurt Biery