

artdaq - Bug #15541

transfer_to_dispatcher should not be required

02/14/2017 12:34 PM - Eric Flumerfelt

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|--|-----------------|------------------------|---------------|
| Status: | Closed | Start date: | 02/14/2017 |
| Priority: | Normal | Due date: | |
| Assignee: | John Freeman | % Done: | 100% |
| Category: | Known Issues | Estimated time: | 0.00 hour |
| Target version: | artdaq v2_02_03 | Co-Assignees: | |
| Experiment: | - | | |
| Description | | | |
| <p><i>otsdaq</i> is currently using a Nx1x1 configuration, and therefore would like to not have a <code>transfer_to_dispatcher</code> block in their configuration. However, this results in a configuration error.</p> <p>It would be good if this configuration parameter was optional, or rolled into a <code>destinations: {}</code> block in order to support multiple dispatchers.</p> | | | |
| Subtasks: | | | |
| Feature # 15542: Allow configuration of multiple dispatchers | | | Closed |
| Feature # 15543: Create "null" transfer plugin | | | Closed |

Associated revisions

Revision fb0ef705 - 03/29/2017 07:49 AM - John Freeman

JCF: add support for systems w/ artdaq v2 not using a dispatcher - will use this for Redmine Issue #15541

Revision a4aa3ca3 - 03/29/2017 10:10 AM - John Freeman

JCF: make it optional whether a data logger has a transfer plugin for sending data to a dispatcher defined- this is done in light of Redmine Issue #15541

Revision a5a74a16 - 04/28/2017 01:41 PM - John Freeman

At this point in code development, the data logger has been tested to successfully use a `DataSenderManager` object to send events to two dispatchers. However, we're not yet done for a couple of reasons:

- 1) The `DataSenderManager` appears to not be non-blocking, which isn't the behavior we typically want for the non-critical data-logger-to-dispatcher path
- 2) There's an implicit requirement that a data sender exist, and a dispatcher exist to receive events from the sender - in other words, the work done for Issue #15541 is effectively undone (for now) in this switch from transfer plugin to `DataSenderManager`
- 3) There's not yet provision for round-robin sending of events to multiple dispatchers - all events are broadcast to all dispatchers

History

#1 - 03/29/2017 10:15 AM - John Freeman

- Status changed from *New* to *Resolved*
- Assignee set to *John Freeman*

artdaq commit a4aa3ca30e6cdb541a942ffef0ec6f0173cdceff addresses this issue. Also, I've modified `DAQInterface` so it can handle a scenario where we have one data logger and no dispatchers (`DAQInterface` commit fb0ef70539ca7ed5b8da1a46c2689cd73aa1790d) and have used this new commit of `DAQInterface` to successfully test that we can write out a root file using one data logger and no dispatchers both with and without `transfer_to_dispatcher` defined in the `FHiCL`, using the aforementioned artdaq commit.

#2 - 05/22/2017 10:53 AM - Eric Flumerfelt

- Status changed from *Resolved* to *Closed*
- Target version changed from *artdaq Next Release* to *artdaq v2_02_03*