

## artdaq - Idea #21164

### A simple-test-config that has configure-only BRs might be useful to help mimic protoDUNE-like systems

10/16/2018 11:28 AM - Kurt Biery

<b>Status:</b>	New	<b>Start date:</b>	10/16/2018
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Experiment:</b>	-		
<b>Description</b>			
<p>In the protoDUNE DAQ, the Warm Interface Boards (which sit between the TPC cold electronics [front-end mother boards] and the data-combiner boards [RCEs and FELIX boards]) are configured by dedicated BoardReader processes. (A different design choice could have been to have the RCEs and FELIX boards handle the configuration of the WIBs, but that was not chosen.)</p> <p>protoDUNE has seen problems in which a second Configure command to an individual WIB BR has the possibility of causing that BR to crash at the subsequent BeginRun (Start). That's documented in a different Issue. It's not clear that it's related to a configure-only BR, but it would be nice to have an environment to test whether that is true or not.</p> <p>A related question that came up was the following: in the case in which a configure-only BR crashes at Begin-Run, why does data taking not continue normally (in a non-mpirun system). This is also an interesting question that could be explored with this type of simple-test-config.</p>			
<b>Subtasks:</b>			
Idea # 21165: Create a Null_generator CommandableFragmentGenerator			<b>New</b>
<b>Related issues:</b>			
Related to artdaq - Bug #21163: Individual reconfiguration of single BR somet...		<b>Closed</b>	<b>10/16/2018</b>

#### History

##### #1 - 10/16/2018 11:33 AM - Eric Flumerfelt

- Due date set to 10/16/2018

due to changes in a related task: [#21165](#)

##### #2 - 10/16/2018 12:41 PM - Eric Flumerfelt

- Related to Bug #21163: Individual reconfiguration of single BR sometimes causes a crash of that BR added