

artdaq - Bug #20453

ZMQ connection_out parameter for timing/Felix not working across partitions properly

07/26/2018 09:35 AM - Wesley Ketchum

Status:	Resolved	Start date:	07/26/2018
Priority:	High	Due date:	
Assignee:	Wesley Ketchum	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Co-Assignees:	
Experiment:	-		
Description			
Need to verify if configs are correct and/or if DAQInterface is doing bookkeeping properly			

History

#1 - 07/26/2018 10:13 AM - Kurt Biery

- Status changed from New to Assigned
- Assignee set to Wesley Ketchum

#2 - 07/26/2018 11:01 AM - Wesley Ketchum

- Status changed from Assigned to Work in progress

OK, so, issue is that the `zmq_fragment_connection_out` parameter in the felix boardreaders needs to be updated to change with partition to match value in timing boardreaders. This is a bit different in that it's a user fragment generator config that needs updating, and not the normal bookkeeping for ranks and etc? So need to work on a better design.

For the moment, Felix BRs will work on partition2 without getting interrupted by other partitions.

#3 - 08/01/2018 10:21 AM - Wesley Ketchum

Giovanna bumped us on this today...

#4 - 08/01/2018 01:39 PM - Kurt Biery

- 1) ask RC developers (John)
- 2) learn where in the DAQI code this happens (Wes)

#5 - 08/01/2018 01:44 PM - Kurt Biery

For future discussion: think about parameters that change in BRs dependent on partition number.

#6 - 08/01/2018 01:54 PM - John Freeman

For DAQInterface v3_00_05s:

`zmq_fragment_connection_out` is read in lines 108-112 in `rc/control/config_functions_local.py`:

```
res = re.search(r"\s*zmq_fragment_connection_out\s*:\s*(\S+) ",
               line)
if res:
    self.zmq_fragment_connection_out = int( res.group(1) )
    continue
```

It overwrites the FHiCL document on lines 518-521 of `rc/control/bookkeeping.py`:

```
if not self.zmq_fragment_connection_out is None:
    self.procinfos[i_proc].fhicl_used = re.sub("zmq_fragment_connection_out\s*:\s*[0-9]+",
                                             "zmq_fragment_connection_out: %d" % (int(self.zmq_fragm
ent_connection_out)),
                                             self.procinfos[i_proc].fhicl_used)
```

#7 - 08/17/2018 02:14 PM - Kurt Biery

- Status changed from Work in progress to Resolved