

artdaq Utilities - Feature #18085

Support for running multiple DAQInterfaces at the same time

10/31/2017 03:46 PM - John Freeman

Status:	Resolved	Start date:	10/31/2017
Priority:	Normal	Due date:	
Assignee:	John Freeman	% Done:	100%
Category:	artdaq-daqinterface	Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Experiment:	-	Co-Assignees:	
Description			
<p>A useful feature for DAQInterface to have is support for running multiple DAQInterface instances at the same time. The following commits realize this goal:</p>			
<pre>0289e192662873675dbf261f3be6e87f95556219 fd4ca5a49c3ebee951f497fe0ac606f4b0b201d6 5f36cea551b2adb03b9e9d0ee2d7f457c4f70a29</pre>			
<p>These changes are backward-compatible in the sense that if only one instance of DAQInterface is used on a system, a user won't notice the new functionality beyond the fact that the output is now logged to a logfile which contains the DAQInterface's listening port (e.g., /tmp/daqinterface_jcfree/DAQInterface_port5570.log rather than /tmp/daqinterface_jcfree/DAQInterface.log).</p>			
<p>In a given shell, the DAQInterface instance to which commands are sent is defined by the DAQINTERFACE_PORT environment variable, which refers to the port the DAQInterface instance is listening on. The source_me script will set DAQINTERFACE_PORT to the numerically highest port of those which the existing instances of DAQInterface are listening on. If a new DAQInterface is launched in a shell via "DAQInterface &", then DAQINTERFACE_PORT is automatically updated to refer to the new DAQInterface's port. At any time, a user can change the DAQInterface to which commands are sent by setting DAQINTERFACE_PORT accordingly.</p>			
<p>The following scripts have been added to help work with multiple DAQInterface instances:</p>			
<p>listdaqinterfaces.sh: will produce a listing of existing DAQInterface instances which looks like the following</p>			
<pre>DAQInterface instance was launched at 15:06 by jcfree listening on port 5590 DAQInterface instance was launched at 14:29 by jcfree listening on port 5570</pre>			
<p>kill_daqinterface_on_port.sh: will kill the DAQInterfaces listening on the port numbers passed to this script as arguments (more than one is permitted).</p>			