

## artdaq - Bug #25328

### SIGABRT in FragmentBuffer

12/17/2020 08:32 AM - Eric Flumerfelt

<b>Status:</b>	Closed	<b>Start date:</b>	12/17/2020
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Eric Flumerfelt	<b>% Done:</b>	0%
<b>Category:</b>	Known Issues	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	artdaq v3_09_04	<b>Co-Assignees:</b>	
<b>Experiment:</b>	ICARUS		
<b>Description</b>			
ICARUS is having an issue where BoardReaders crash while stopping. This occurs because of a missing lock in FragmentBuffer.			
The DataBuffers are cleared after a different thread has determined that the buffer was over-size, but before it prints the timestamp range of the buffer. When that thread goes to print the timestamp range, it tries to dereference a null pointer.			

### History

#### #1 - 12/17/2020 08:33 AM - Eric Flumerfelt

- Status changed from New to Resolved

Resolution on [artdaq:bugfix/25328\\_MissingLockInFragmentBuffer](#)

#### #2 - 12/17/2020 11:35 AM - Wesley Ketchum

Relatedly (but separate, I know...): can we make it optional to have the warning message for filling up the FragmentBuffer? When we're running in window mode and intending to use that buffer like a circular buffer, we get a spew of warning messages consistently through the run.

#### #3 - 12/17/2020 01:04 PM - Eric Flumerfelt

Is there a reason to not have `circular_buffer_mode` set, then? The "Bad Omen" messages are only printed if you're not in `circular_buffer_mode`.

Right now, the buffer is automatically flushed by timestamp latency only. Do we want to add a wall-clock latency (i.e. using `chrono::steady_clock`)? You could then configure both the buffer size limits to be zero and rely on the latency removal (of either kind) (or system memory limits) to moderate the buffer size.

#### #4 - 01/06/2021 12:09 PM - Gennadiy Lukhanin

- Status changed from Resolved to Reviewed

[artdaq:bugfix/25328\\_MissingLockInFragmentBuffer](#) and [artdaq-utilities:bugfix/25328\\_ThreadContentionFixes](#) were code reviewed, tested on the Icarus cluster for interference with the SBN DAQ software (run 4300), and merged into the develop branch.

#### #5 - 01/08/2021 02:39 PM - Eric Flumerfelt

- Target version set to `artdaq v3_09_04`

- Status changed from Reviewed to Closed