

# artdaq - Bug #20387

## Something set all of my requested trace levels to zero

07/21/2018 05:24 PM - Kurt Biery

<b>Status:</b>	New	<b>Start date:</b>	07/21/2018
<b>Priority:</b>	Low	<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>Co-Assignees:</b>	
<b>Experiment:</b>	-		

### Description

I'm not sure if I'm imagining this, but I think that Ron has seen it too, but something set all of my requested trace levels to zero:

```
[biery@mu2eddaq01 artdaqDemo]$ tlvs
```

```
mode: M=0 S=0
TID NAME maskM maskS maskT
-----
0 SharedMemoryManager 0x0000000000000000 0x0000000000000000 0x0000000000000000
1 component01_CommandableInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
2 component02_CommandableInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
3 component03_CommandableInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
4 component04_CommandableInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
5 component05_CommandableInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
6 component06_CommandableInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
7 component07_CommandableInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
8 component08_CommandableInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
9 component09_CommandableInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
10 component10_CommandableInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
11 EventBuilder1_CommandableInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
12 EventBuilder2_CommandableInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
13 EventBuilder3_CommandableInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
14 DataLogger1_CommandableInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
15 Dispatcher1_CommandableInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
16 MPISentry 0x0000000000000000 0x0000000000000000 0x0000000000000000
17 TRACE 0x0000000000000000 0x0000000000000000 0x0000000000000000
18 LoadParameterSet 0x0000000000000000 0x0000000000000000 0x0000000000000000
19 configureMessageFacility 0x0000000000000000 0x0000000000000000 0x0000000000000000
20 GenFileOutput 0x0000000000000000 0x0000000000000000 0x0000000000000000
21 component09_TCPConnect 0x0000000000000000 0x0000000000000000 0x0000000000000000
22 component03_TCPConnect 0x0000000000000000 0x0000000000000000 0x0000000000000000
23 component04_TCPConnect 0x0000000000000000 0x0000000000000000 0x0000000000000000
24 component10_TCPConnect 0x0000000000000000 0x0000000000000000 0x0000000000000000
25 DataLogger1_TCPConnect 0x0000000000000000 0x0000000000000000 0x0000000000000000
26 EventBuilder1_TCPConnect 0x0000000000000000 0x0000000000000000 0x0000000000000000
27 Dispatcher1_TCPConnect 0x0000000000000000 0x0000000000000000 0x0000000000000000
28 component03Main 0x0000000000000000 0x0000000000000000 0x0000000000000000
29 component09Main 0x0000000000000000 0x0000000000000000 0x0000000000000000
30 component04Main 0x0000000000000000 0x0000000000000000 0x0000000000000000
31 component10Main 0x0000000000000000 0x0000000000000000 0x0000000000000000
32 DataLogger1Main 0x0000000000000000 0x0000000000000000 0x0000000000000000
33 EventBuilder2_TCPConnect 0x0000000000000000 0x0000000000000000 0x0000000000000000
34 Dispatcher1Main 0x0000000000000000 0x0000000000000000 0x0000000000000000
35 component01_TCPConnect 0x0000000000000000 0x0000000000000000 0x0000000000000000
36 component07_TCPConnect 0x0000000000000000 0x0000000000000000 0x0000000000000000
37 EventBuilder1Main 0x0000000000000000 0x0000000000000000 0x0000000000000000
38 EventBuilder2Main 0x0000000000000000 0x0000000000000000 0x0000000000000000
39 component01Main 0x0000000000000000 0x0000000000000000 0x0000000000000000
40 component08_TCPConnect 0x0000000000000000 0x0000000000000000 0x0000000000000000
41 component07Main 0x0000000000000000 0x0000000000000000 0x0000000000000000
42 component02_TCPConnect 0x0000000000000000 0x0000000000000000 0x0000000000000000
43 component08Main 0x0000000000000000 0x0000000000000000 0x0000000000000000
44 EventBuilder3_TCPConnect 0x0000000000000000 0x0000000000000000 0x0000000000000000
```





```

179 component04_TCPsocketTransfer 0x0000000000000000 0x0000000000000000 0x0000000000000000
180 component09_TransferInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
181 component09_TCPsocketTransfer 0x0000000000000000 0x0000000000000000 0x0000000000000000
182 component08_TransferInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
183 component08_TCPsocketTransfer 0x0000000000000000 0x0000000000000000 0x0000000000000000
184 component05_TransferInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
185 component05_TCPsocketTransfer 0x0000000000000000 0x0000000000000000 0x0000000000000000
186 component10_TransferInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
187 component10_TCPsocketTransfer 0x0000000000000000 0x0000000000000000 0x0000000000000000
188   _TransferInterface 0x0000000000000000 0x0000000000000000 0x0000000000000000
189   _TCPsocketTransfer 0x0000000000000000 0x0000000000000000 0x0000000000000000
190   ContainerFragmentLoader 0x0000000000000000 0x0000000000000000 0x0000000000000000
191 DataLogger1_CommandableFragmentGenerato 0x0000000000000000 0x0000000000000000 0x0000000000000000
192   InputUtilities 0x0000000000000000 0x0000000000000000 0x0000000000000000
193 EventBuilder3_CommandableFragmentGenera 0x0000000000000000 0x0000000000000000 0x0000000000000000
194 EventBuilder2_CommandableFragmentGenera 0x0000000000000000 0x0000000000000000 0x0000000000000000
195 EventBuilder1_CommandableFragmentGenera 0x0000000000000000 0x0000000000000000 0x0000000000000000
196 Dispatcher1_CommandableFragmentGenerato 0x0000000000000000 0x0000000000000000 0x0000000000000000
197   UDP_mfPlugin 0x0000000000000000 0x0000000000000000 0x0000000000000000
198   EventBuilder2_DataLoggerApp 0x0000000000000000 0x0000000000000000 0x0000000000000000
199   EventBuilder2App 0x0000000000000000 0x0000000000000000 0x0000000000000000
200   EventBuilder1_DataLoggerApp 0x0000000000000000 0x0000000000000000 0x0000000000000000
201   EventBuilder1App 0x0000000000000000 0x0000000000000000 0x0000000000000000
202   EventBuilder3_DataLoggerApp 0x0000000000000000 0x0000000000000000 0x0000000000000000
203   EventBuilder3App 0x0000000000000000 0x0000000000000000 0x0000000000000000
204   RandomDelayFilter 0x0000000000000000 0x0000000000000000 0x0000000000000000

```

## History

### #1 - 07/25/2018 02:56 PM - Ron Rechenmacher

kurt thinks he has a simple test config that will help reproduce this.  
Pester him to commit it.

### #2 - 07/25/2018 04:12 PM - Kurt Biery

Ron,  
I noticed this when I was running the mediumsistem\_mediumdata simple\_test\_config, and I believe that the change that triggered this behavior was the addition of a delay of one second per event to the DataLoggers. An example diff of the DataLogger1.fcl file is included below. I was thinking about copying the mediumsistem\_mediumdata to a new config called extreme\_backpressure, or something like that, and adding the DataLogger delays, but I haven't done that yet.  
Kurt

```

@@ -57,19 +57,23 @@ outputs: {
}
physics: {
- analyzers: {
-
+ filters: {
+ randomDelay: {
+ module_type: RandomDelayFilter
+ delay_distribution_type: "Fixed"
+ minimum_delay_ms: 110
+ }
+ }
+ analyzers: {
+ checkintegrity: {
+ module_type: CheckIntegrity
+ raw_data_label: daq
+ frag_type: TOY1
+ }
- }
}

producers: {
-
+ BuildInfo:
+ {
+ module_type: ArtdaqDemoBuildInfo
@@ -77,7 +81,7 @@ physics: {

```

```
    }  
  }  
- p2: [ BuildInfo ]  
+ p2: [ BuildInfo, randomDelay ]  
  my_output_modules: [ normalOutput ]  
  my_mpi_output_modules: [ rootNetOutput ]  
}
```