

artdaq - Feature #23646

Simple Metric Sender

11/22/2019 10:47 AM - Eric Flumerfelt

Status:	Closed	Start date:	11/22/2019
Priority:	Normal	Due date:	
Assignee:	Eric Flumerfelt	% Done:	0%
Category:	Additional Functionality	Estimated time:	0.00 hour
Target version:	artdaq v3_07_02	Co-Assignees:	
Experiment:	DUNE		
Description			
For the DUNE Dataflow Working Group, I created a presentation on the artdaq metric reporting subsystem. For this presentation, I created a small application that served as the minimum working example for artdaq metric reporting.			

History

#1 - 11/22/2019 10:49 AM - Eric Flumerfelt

- Assignee set to Eric Flumerfelt
- Status changed from New to Resolved
- Category set to Additional Functionality

Implementation on artdaq:feature/23646_simple_metric_sender.

#2 - 11/22/2019 10:50 AM - Eric Flumerfelt

- Experiment DUNE added
- Experiment deleted (-)

#3 - 01/09/2020 11:56 AM - John Freeman

- Status changed from Resolved to Reviewed

After building simple_metric sender, I was able to successfully send metrics to an ASCII file with these commands on mu2eddaq:

```
cd /home/jcfree/artdaq-demo_issue23646
source setupARTDAQDEMO
export ARTDAQ_LOG_ROOT=$PWD
simple_metric_sender -c sample_simple_metric_sender_config.fcl
```

where the contents of sample_simple_metric_sender_config.fcl were:

```
simple_metric_sender: {
    ## The maximum number of metric entries which can be stored in the metric queue.
    metric_queue_size: 1000 # default
    ## The number of metric entries in the list which will cause reports of the queue size to be printed.
    metric_queue_notify_size: 10 # default
    ## The maximum amount of time between metric send calls (will send 0s for metrics which have not reported in this interval)
    metric_send_maximum_delay_ms: 15000 # default
    ## Whether to collect and send system metrics such as CPU usage, Memory usage and network activity.
    send_system_metrics: false # default
    ## Whether to collect and send process CPU usage and Memory usage
```

```
send_process_metrics: false # default

## The name of the metric plugin to load (may have additional configuration parameters

metricPluginType: "file"
fileName: "simple_metric_sender_output.log"
absolute_file_path: false
uniquify: true

## The verbosity level threshold for this plugin. sendMetric calls with verbosity level greater than th
is will not be sent to the plugin. OPTIONAL

level: 4 # default

## How often recorded metrics are sent to the underlying metric storage

reporting_interval: 15.0000 # default

## Whether zeros should be sent to the metric back-end when metrics are not reported in an interval and
during shutdown

send_zeros: true # default
}
```

Note that this was basically my modification of the output of "simple_metric_sender -h", but that I had to remove the metricConfig table which wrapped the metricPluginType definition for this to work.

#4 - 02/20/2020 12:07 PM - Eric Flumerfelt

- Target version set to artdaq v3_07_02
- Status changed from Reviewed to Closed