

artdaq - Idea #20481

Add the "--print-description" option to DAQ processes.

07/30/2018 12:42 PM - Gennadiy Lukhanin

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|------------------------|--------|------------------------|------------|
| Status: | New | Start date: | 07/30/2018 |
| Priority: | Normal | Due date: | |
| Assignee: | | % Done: | 0% |
| Category: | | Estimated time: | 0.00 hour |
| Target version: | | | |
| Experiment: | - | | |

Description

Recent versions of art have the "--print-description" option, which provides a brief summary about a module and its configuration parameters. It would be useful to have a similar capability added for artdaq processes.

Example: "art --print-description RootOutput"

```
=====  
==  
  
module_type : RootOutput (or "art/Framework/IO/Root/RootOutput")  
  
provider: art  
type    : output module  
source  : / [ external source ] /art/Framework/IO/Root/RootOutput_module.cc  
library : /mnt/sde/products/art/v2_10_02/slf7.x86_64.e15.prof/lib/libart_Framework_IO_Root  
_RootOutput_module.so  
  
Allowed configuration  
-----  
  
## Any parameters prefaced with '#' are optional.  
  
<module_label>: {  
  
    module_type: RootOutput  
  
    ## The following parameter is a user-provided list  
    ## of filter paths. The default list is empty.  
  
    SelectEvents: [  
    ]  
  
    outputCommands: [  
        "keep *" # default  
    ]  
  
    fileName: <string>  
  
    dataTier: "" # default  
  
    streamName: "" # default  
  
    catalog: "" # default  
  
    # dropAllEvents: <bool>  
  
    dropAllSubRuns: false # default  
  
    # fastCloning: <bool>  
  
    tmpDir: "<parent-path-of-filename>" # default
```

```

compressionLevel: 7 # default

saveMemoryObjectThreshold: -1 # default

treeMaxVirtualSize: -1 # default

splitLevel: 99 # default

basketSize: 16384 # default

dropMetaDataForDroppedData: false # default

dropMetaData: "NONE" # default

writeParameterSets: true # default

fileProperties: {
    maxEvents: 4294967295 # default
    maxSubRuns: 4294967295 # default
    maxRuns: 4294967295 # default
    maxInputFiles: 4294967295 # default
    ## Maximum size of file (in KiB)
    maxSize: 2130706432 # default
    ## Maximum age of output file (in seconds)
    maxAge: 4294967295 # default

    ## The 'granularity' parameter specifies the level at which
    ## a file may be closed, and thereby the granularity of the file.
    ## The following values are possible:
    ##
    ##      Value          Meaning
    ##      =====
    ##      "Event"        Allow file switch at next Event
    ##      "SubRun"       Allow file switch at next SubRun
    ##      "Run"          Allow file switch at next Run
    ##      "InputFile"    Allow file switch at next InputFile
    ##      "Job"          File closes at the end of Job
    ##
    ## For example, if a granularity of "SubRun" is specified, but the
    ## file has reached the maximum events written to disk (as specified
    ## by the 'maxEvents' parameter), switching to a new file will NOT
    ## happen until a new SubRun has been reached (or there are no more
    ## Events/SubRuns/Runs to process).

    granularity: "Event" # default
}
}

```

```

=====
==
Art has completed and will exit with status 1.

```