

fhicl-cpp - Bug #10979

formatting bug in output of --debug-config

11/22/2015 02:50 PM - Rob Kutschke

Status:	Closed	Start date:	11/22/2015
Priority:	Normal	Due date:	
Assignee:	Kyle Knoepfel	% Done:	100%
Category:		Estimated time:	2.00 hours
Target version:	1.18.03	Spent time:	0.50 hour

Description

I made a --debug-config file from one of the Mu2e fcl files that makes heavy use of @sequence:: and @table. There is a formatting bug in the output. The original error was found in Analyses/test/genReco.fcl . I have produced a stripped down version that is much shorter and still produces the bug.

Here is the command that will demonstrate the error:

```
mu2e -c Analyses/test/debug_config_bug.fcl --debug-config bug.fcl
```

In bug.fcl find the definition of gen_allpatrec_rec, which is shown below. The error is that after the first 10 module labels in the list, the comma that delimits module labels is missing.

```
gen_allpatrec_reco: [  
  "generate",  
  "g4run",  
  "protonTimeMap",  
  "muonTimeMap",  
  "MakeCaloReadoutHits",  
  "MakeCaloCrystalHits",  
  "makeSD",  
  "makeSH",  
  "FSHPreStereo",  
  "MakeStereoHits",  
  "FlagStrawHits"  
  "FlagBkgHits"  
  "TimePeakFinder"  
  "PosHelixFinder"  
  "TRFDownstreameMinus"  
]
```

To reproduce the bug, first setup a ups repository. Then:

```
git clone http://cdcvcs.fnal.gov/projects/mu2eofflinesoftwaremu2eoffline/Offline.git  
cd Offline  
source setup.sh  
mu2e -c Analyses/test/genReco.fcl --debug-config bug.fcl
```

You do need to build the Mu2e code in order to reproduce this bug.

Associated revisions

Revision b0ef6634 - 11/30/2015 03:56 PM - Kyle Knoepfel

Implement fix for issue #10979

History

#1 - 11/23/2015 11:52 AM - Marc Paterno

- Status changed from New to Accepted

#2 - 11/30/2015 11:38 AM - Kyle Knoepfel

- Status changed from Accepted to Assigned

- Assignee set to Kyle Knoepfel

#3 - 11/30/2015 11:39 AM - Kyle Knoepfel

- *Project changed from art to fhicl-cpp*
- *Estimated time set to 2.00 h*

#4 - 11/30/2015 04:12 PM - Kyle Knoepfel

- *Status changed from Assigned to Resolved*
- *% Done changed from 0 to 100*

When rewriting the `ParameterSet::to_indented_string` implementation, I changed the sequence-element printout to rely on regex-pattern matching. To determine if a parameter is a sequence element it must have a key that ends with "[\d+]" (at least one indexed digit -- e.g. "seq[7]"). I omitted the '+' character so that elements with *only one* digit matched the pattern -- hence why you saw commas for the first 10 elements and none afterward.

This has been fixed and implemented with [fhicl-cpp:b0ef663](#).

#5 - 12/23/2015 09:02 AM - Kyle Knoepfel

- *Status changed from Resolved to Closed*

#6 - 05/24/2016 10:02 AM - Kyle Knoepfel

- *Target version set to 1.18.03*