TrajCluster - Bug #18991

Segmentation fault when running MicroBooNE TrajCluster reconstruction

02/14/2018 11:52 AM - Supraja Balasubramanian

Status:	New	**Start date:**	02/14/2018
Priority:	Normal	**Due date:**	
Assignee:	Supraja Balasubramanian	**% Done:**	0%
Category:		**Estimated time:**	0.00 hour
Target version:		**Spent time:**	0.00 hour

Description

I get a seg fault when I do:

```
lar -c mcc8.fcl inputfile_v06_26_06_reco2.root -o output.root
```

in uboonecode v06_67_01 with larreco v06_54_01 on branch feature/bb_TJWork.

The .fcl file I use is: /uboone/app/users/suprajab/v06_67_01/srcs/larreco/larreco/TCReco/mcc8.fcl
The debug report is: /uboone/app/users/suprajab/v06_67_01/srcs/larreco/larreco/TCReco/debug.txt
The input MCC8.6 reco2 file is: /uboone/app/users/suprajab/v06_67_01/srcs/larreco/larreco/TCReco/inputfile_v06_26_06_reco2.root

History

#1 - 02/14/2018 11:53 AM - Supraja Balasubramanian

- Assignee set to Supraja Balasubramanian

#2 - 02/14/2018 01:08 PM - Tingjun Yang

From Bruce:

Supraja,

It looks like the reference to the BackTrackerMatchingData is wrong in your fcl file. You have specified:

physics.producers.trajcluster2.TrajClusterAlg.HitFinderModuleLabel: "pandoraCosmicHitRemoval"
physics.producers.trajcluster2.TrajClusterAlg.HitTruthModuleLabel: "pandoraCosmicHitRemoval"

in your mcc8.fcl file but there are no data products like that in the input file. I ran the following to dump the list of data products to eventdump.txt.

lar -c eventdump.fcl /uboone/app/users/suprajab/v06_67_01/srcs/larreco/larreco/TCReco/inputfile_v06_26_06_reco2.root -n 1 > eventdump.txt

I find that but there is no association with pandoraCosmicHitRemoval hits with any BackTrackerMatchingData. TrajCluster then tried to use the BackTrackerService and got a seg fault when it couldn't find anything. I think you want to use this:

physics.producers.trajcluster2.TrajClusterAlg.HitTruthModuleLabel: "crHitRemovalTruthMatch"

instead. I admit to being confused about the names. There are three BackTrackerMatchingData data collections in this file: gaushitTruthMatch , crHitRemovalTruthMatch, and trajclusterTruthMatch. It would have been clearer if the module had been named pandoraCosmicHitRemovalTruthMatch.

Bruce

#3 - 02/14/2018 03:45 PM - Tingjun Yang

- File Screen Shot 2018-02-14 at 3.42.42 PM.png added

Hi Bruce,

Please see the attached screenshot. I think the problem is around line 405 of PFPUtils.cxx where jtj2pt.id is 0.

Tingjun

Files

Screen Shot 2018-02-14 at 3.42.42 PM.png	135 KB	02/14/2018	Tingjun Yang