dunetpc - Bug #17206

Segfault when running standard_ana_dune10kt.fcl

07/18/2017 01:19 PM - Steven Gardiner

Status:	Closed		**Start date:**	07/18/2017
Priority:	Normal		**Due date:**	
Assignee:	Steven Gardiner		**% Done:**	100%
Category:			**Estimated time:**	0.00 hour
Target version:				

Description
Running the standard analysis script on a LArSoft ROOT file containing MARLEY events results in a segmentation fault. Doing the same for GENIE events works fine.

Associated revisions

Revision 9ffb10e1 - 07/18/2017 01:45 PM - Steven Gardiner

Use associations with simb::MCTruth objects to access the simb::MCFlux
objects in the AnalysisTree module instead of assuming that they will
always be present. This commit resolves dunetpc issue #17206.

History

#1 - 07/18/2017 01:30 PM - Steven Gardiner

The issue appears to be caused by the AnalysisTree module. The current version of the module assumes that every simb::MCTruth object produced by the generator with label fGenieGenModuleLabel will also have a corresponding simb::MCFlux object. No explicit check of this, however, is made before the simb::MCFlux data members are accessed starting on line 4690. If a generator that does not produce simb::MCFlux objects (e.g., MARLEY) is referred to by fGenieGenModuleLabel, then the module will fail to notice the absence of the simb::MCFlux objects, resulting in a segfault when the module tries to use them.

#2 - 07/18/2017 03:29 PM - Steven Gardiner

- Status changed from New to Resolved

#3 - 10/31/2017 08:55 PM - Tingjun Yang

- Status changed from Resolved to Closed

- % Done changed from 0 to 100