

## LArSoft - Support #16106

Support # 16096 (Closed): Fix problems found when attempting to build with gcc 6.3.0

### problem compiling Dumpers with gcc 6.3.0

04/05/2017 03:14 PM - Lynn Garren

<b>Status:</b>	Closed	<b>Start date:</b>	04/05/2017
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Gianluca Petrillo	<b>% Done:</b>	100%
<b>Category:</b>	Other	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.20 hour
<b>Experiment:</b>	LArSoft	<b>Co-Assignees:</b>	
<b>Description</b>			
<p>The compilation of several Dumper modules fails when compiled with gcc 6.3.0. They all exhibit the same symptom. Here is the error message for lardata/ArtDataHelper/Dumpers/DumpVertices_module.cc:</p>			
<pre>[ 45%] Building CXX object lardata/lardata/ArtDataHelper/Dumpers/CMakeFiles/lardata_ArtDataHelper_ Du mpers_DumpVertices_module.dir/DumpVertices_module.cc.o /home/garren/scratch/larsoft/dev/srcs/lardata/lardata/ArtDataHelper/Dumpers/DumpVertices_module.cc :9 5:39: error: constructor required before non-static data member for ‘{anonymous}::VertexDumper::Pr in tOptions_t::hexFloats’ has been parsed     PrintOptions_t print_options = {}                                 ^ /home/garren/scratch/larsoft/dev/srcs/lardata/lardata/ArtDataHelper/Dumpers/DumpVertices_module.cc :9 5:39: error: could not convert ‘&lt;brace-enclosed initializer list&gt;()’ from ‘&lt;brace-enclosed initial iz er list&gt;’ to ‘{anonymous}::VertexDumper::PrintOptions_t’</pre>			

### History

#### #1 - 04/05/2017 06:08 PM - Gianluca Petrillo

- Category set to Other
- Status changed from Assigned to Resolved
- % Done changed from 0 to 100

Nested classes are not considered defined until the enclosing class is completely parsed.

Using the constructor of a nested class to assign a default value to a method parameter requires the class of that parameter to be defined, which is not the case yet at the point the method is declared.

I had to give up using default values for the arguments, and implement two separate constructors (not that separate, since one calls the other...). Solved with [lardata:3154ba9366006cb2759eb6435634f7b0a9197d43](https://github.com/AMICE-HEP/lardata/pull/3154ba9366006cb2759eb6435634f7b0a9197d43).

#### #2 - 04/17/2017 11:23 AM - Lynn Garren

- Status changed from Resolved to Closed