Subject: [FIXED] FairEvtFilter problem with c++11
Posted by StefanoSpataro on Wed, 12 Nov 2014 17:16:38 GMT

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Trying to install pandaroot with the new external packages and git, in an Ubuntu 14.10 (gcc 4.9.1) I have seen that the code has problems with the C++11 options.
In particular:

In file included from
/home/lavezzi/git/pandaroot/pgenerators/eventFilter/FairFilteredPrimaryGenerator.h:27:0,
          from
/home/lavezzi/git/pandaroot/pgenerators/eventFilter/FairFilteredPrimaryGenerator.cxx:1:
/home/lavezzi/git/pandaroot/pgenerators/eventFilter/FairEvtFilter.h:129:46: error: 'constexpr'
needed for in-class initialization of static data member 'const Double_t
FairEvtFilter::kNoChargeSpecified' of non-integral type [-fpermissive]
   static const Double_t kNoChargeSpecified = -999.9;
                                              ^
pgenerators/CMakeFiles/PGen.dir/build.make:497: recipe for target
'pgenerators/CMakeFiles/PGen.dir/eventFilter/FairFilteredPrimaryGenerator.cxx.o' failed

In c++11 static const of a non-integer number is not allowed, one should use constexpr. But if I use constexpr:

[9%] Generating G__PGenDict.cxx
Error: Invalid type 'constexpr' in declaration of 'Double_t kNoChargeSpecified'
/home/lavezzi/git/pandaroot/pgenerators/eventFilter/FairEvtFilter.h:129:
Warning: Error occurred during reading source files
Warning: Error occurred during dictionary source generation
!!!Removing /home/lavezzi/git/pandaroot/cbuild/pgenerators/G__PGenDict.cxx
/home/lavezzi/git/pandaroot/cbuild/pgenerators/G__PGenDict.h !!!
Error: /home/lavezzi/git/fairsoft_jul14p3/externals/bin/rootcint: error loading headers...
pgenerators/CMakeFiles/PGen.dir/build.make:77: recipe for target
'pgenerators/G__PGenDict.cxx' failed
make[2]: *** [pgenerators/G__PGenDict.cxx] Error 1

Martin, can you fix this problem? This is present in several classes, including also FTS.
From some comments i read in the forum, what you are doing is a bit nasty and should be disegned in a different and safer way.

Thanks in advance.