Subject: Re: Creating a new Detector out of 2 or more detectors
Posted by Raghav Kunnawalkam on Sat, 03 Mar 2012 02:32:43 GMT

Hi Mohammad

I do have gSystem->Load("libFairDircDet") amongst all the other libraries in my macro.

Here is part of my CMakeLists.txt file inside the DircDet directory.

```
set(INCLUDE_DIRECTORIES
${ROOT_INCLUDE_DIR}
#put here all directories where header files are located
${FAIRROOT_SOURCE_DIR}/fairtools
${FAIRROOT_SOURCE_DIR}/base
${FAIRROOT_SOURCE_DIR}/parbase
${FAIRROOT_SOURCE_DIR}/geobase
${FAIRROOT_SOURCE_DIR}/example/mcstack
${FAIRROOT_SOURCE_DIR}/example/simpletracker/src
${FAIRROOT_SOURCE_DIR}/example/DircDet/src
)

include_directories( ${INCLUDE_DIRECTORIES})

set(LINK_DIRECTORIES
${ROOT_LIBRARY_DIR}
...
```

Rest of the file is built exactly like the instructions on the website.
I think that i did not do the linking properly but i dont understand why because i did it exactly like how the example rutherford was designed.

I have also built all the libraries for the detectors with no errors so they do exist properly.

Another problem that i have is with building the passive components like fairpipe.
I have it built exactly like the FairMagnet (with the appropriate changes for geometry and media, but on doing make, it gives me an error like

```
[ 61%] Built target FairRutherford
[ 61%] Generating FairPassiveDict.cxx, FairPassiveDict.h
[ 61%] Building CXX object example/passive/CMakeFiles/Passive.dir/FairGeoPipe.o
In file included from /usr/include/c++/4.2.1/typeinfo:39,
          from /Users/raghav/fairsoft/tools/root/include/Rtypeinfo.h:32,
          from /Users/raghav/fairsoft/tools/root/include/Rtypes.h:30,
          from /Users/raghav/fairsoft/tools/root/include/TObject.h:31,
          from /Users/raghav/fairroot/geobase/FairGeoVector.h:4,
          from /Users/raghav/fairroot/geobase/FairGeoTransform.h:4,
          from /Users/raghav/fairroot/geobase/FairGeoSet.h:5,
          from /Users/raghav/fairroot/example/passive/FairGeoPipe.h:4,
          from /Users/raghav/fairroot/example/passive/FairGeoPipe.cxx:11:
/usr/include/c++/4.2.1/exception:40: error: '#pragma' is not allowed here
```

make[2]: *** [example/passive/CMakeFiles/Passive.dir/FairGeoPipe.o] Error 1
make[1]: *** [example/passive/CMakeFiles/Passive.dir/all] Error 2
make: *** [all] Error 2

Many thanks for all your help. (it has been awesome)