Subject: How to configure cmake when using the current FairRoot/dev?
Posted by Stefan Pflueger on Tue, 30 Apr 2019 11:34:54 GMT

Hi,

we want to use the current FairRoot/dev with Pandaroot. How do we configure the CMakeLists.txt in Pandaroot correctly to import FairRoot and possibly its dependencies? The problem is that Pandaroot requires also Geant3 and Geant4 (possibly more external packages). Before they were imported via find_package. However these modules do not exist anymore.

Thanks

Stefan

Subject: Re: How to configure cmake when using the current FairRoot/dev?
Posted by Mohammad Al-Turany on Tue, 30 Apr 2019 13:36:05 GMT

Hi,

We decided to modernise the CMake implementation in FairRoot and get rid of the old style self-written FindXXX.cmake packages. So now we rely on the the Cmake configuration delivered by the packages themselves (thus the removal of all these FindGeant3, ... packages).

To use the FairRoot dev branch you will need to adapt your CMakefile.txt and use find_package2 from FairMacros.cmake instead of the standard one from cmake. I will post the instructions about what need to be done or make myself a PR to Pandaroot with the new changes in the near future.

best,

Mohammad

Subject: Re: How to configure cmake when using the current FairRoot/dev?
Posted by Stefan Pflueger on Tue, 30 Apr 2019 14:03:06 GMT

Hi Mohammad,

I tried to use the find_package2 already, but that did not work for Geant4. Somehow the include directory for the Geant4 headers are not set with the find_package2. But I guess I will wait until this is finished

Best regards,
Stefan

Subject: Re: How to configure cmake when using the current FairRoot/dev?
Posted by Mohammad Al-Turany on Tue, 30 Apr 2019 14:15:03 GMT

Hi Stefan,

This is not FindPackage2, this is a side effect of moving from self written Find_Geant4.cmake to the Geant4Config.cmake which is delivered by Geant4 itself. Please control that the variables names are the same, i.e: the new variables Geant4_INCLUDE_DIRS and in the Old FindGeant4.cmake it was GEANT4_INCLUDE_DIR.

best,

Mohammad

Subject: Re: How to configure cmake when using the current FairRoot/dev?
Posted by Stefan Pflueger on Tue, 30 Apr 2019 14:16:08 GMT

Hi,

ok I will try that. Thank you!

Subject: Re: How to configure cmake when using the current FairRoot/dev?
Posted by Roman Klasen on Mon, 06 May 2019 11:07:48 GMT

To keep track of this I opened an issue on Pandaroots Gitlab here:
https://pandaatfair.githost.io/PandaRootGroup/PandaRoot/issues/189

Once the PR is finished, we can close the issue with a reference to the PR.