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Subject: How to configure cmake when using the current FairRoot/dev?

Posted by [Stefan Pflueger](#) on Tue, 30 Apr 2019 11:34:54 GMT

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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

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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

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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

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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

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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

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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

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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

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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

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Hi,

ok I will try that. Thank you!

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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

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

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

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