Subject: fairbase does not compiile properly as is (10-5-12) [SOLVED]
Posted by Raphael Cervantes on Fri, 05 Oct 2012 14:53:33 GMT
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Hey,
I tried a fresh new install of fairbase on my Ubuntu 12.04 64 bit. My external packages sep12 compiled without a hitch. I then tried to compile

svn co https://subversion.gsi.de/fairroot/fairbase/release fairroot
mkdir build
cd build
export SIMPATH=path to/sep12-build
cmake ..
make

The errors that I get are contained in the file makeAsIs.txt.

To have the command make work, I had to comment out add_subdirectory(datamatch) and add_subdirectory(test).

Did anyone else using Ubuntu 12.04 get fairbase to compile without having to modify it? I'm wondering whether the package is buggy or if I'm doing something wrong. I'm also wondering if all my troubles right now are caused by me not compiling these two directories.

File Attachments
1) makeAsIs.txt, downloaded 647 times

Subject: Re: fairbase does not compile properly as is (10-5-12)
Posted by Raphael Cervantes on Fri, 05 Oct 2012 15:02:20 GMT
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Also, has anyone had any luck using geant4 with the current fairbase?

I tried running the rutherford example,
cd fairbase/examples/rutherford/macros
root run_rutherford.C
And it seemed to run without a hitch.

However, run_rutherford as it is in the repository uses Geant3. I want to use Geant4, so I replace run->SetName("TGeant3"); with run->SetName("TGeant4");
After I try to run_rutherford.C again, I get a segmentation fault. The error is described in geant4SeFault.txt. I naively copied g4libs.C from sep12/transport/geant4_vmc into my sep12-build/share/root/macros and into my gconfig folder in my fairbase. Note: the g4libs.C was not found at all in my sep12 build folder, which might suggest that sep12 is faulty in this aspect. After copying g4libs.C into said folders, I ran rutherford again and obtained the error described in geant4now.txt. I don't know what else to try, so any help is greatly appreciated.

Thank you in advance

File Attachments
1) geant4SegFault.txt, downloaded 477 times
2) geant4now.txt, downloaded 477 times

Subject: Re: fairbase does not compile properly as is (10-5-12)
Posted by Raghav Kunnawalkam on Fri, 05 Oct 2012 15:28:49 GMT
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Hi Guys

I am also having the same problem regarding Geant4 and the fairdatamatch libraries.

Since i was using the Jan10 release for a while i though that geant4 needed CLHEP to work, but you guys say in your current release it is integrated with Geant4.

As always any help is much appreciated.

Cheers
Raghav

Subject: Re: fairbase does not compiile properly as is (10-5-12)
Posted by Florian Uhlig on Mon, 08 Oct 2012 15:27:38 GMT
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Hi Raphael,

sorry for the late response. Both issues are fixed in the latest version of fairbase. So please update your local working copy and try again.

Ciao

Florian

Subject: Re: fairbase does not compiile properly as is (10-5-12)
Posted by Raghav Kunnawalkam on Mon, 08 Oct 2012 15:52:12 GMT
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Hi Florian

Thanks for your reply. I did the update and it looks like there are no problems regarding FairDataMatch.

But the geant4 is still not working.

There are different errors regarding where i place the g4libs.C file (do we need it actually here?). I remember that there was this same problem before and I solved it by pasting that file in some place where fairroot was looking for it. (

https://forum.gsi.de/index.php?t=tree&th=3614&start=0&rid=17
88&S=2ec8d4daab8502a0c37cbf69f69a6a02#page_top)

So it still gives me the following error regarding Geant4
-I- FairGeoMedia Read media
[INFO   ] [08.10.2012 11:50:50] [FairRunSim.cxx::Init:165] Create visualisation manager
[INFO   ] [08.10.2012 11:50:50] [FairRunSim.cxx::SetMCConfig:262] ---User path for Configuration (g4libs.C) is used : /Users/raghav/EICROOT/fairroot/example/gconfig/
[INFO   ] [08.10.2012 11:50:50] [FairRunSim.cxx::SetMCConfig:269] ---User path for Configuration (g4Config.C) is used : /Users/raghav/EICROOT/fairroot/example/gconfig/
[INFO   ] [08.10.2012 11:50:50] [FairRunSim.cxx::SetMCConfig:331] ---User path for Cuts and Processes (SetCuts.C) is used : /Users/raghav/EICROOT/fairroot/example/gconfig/
Loading Geant4 global libraries ...Our Macro
 Loading Library libG4Tree
 Loading Library libG4FR
 Loading Library libG4GMocren
 Loading Library libG4visHepRep
 Loading Library libG4RayTracer
 Loading Library libG4VRML
 Loading Library libG4vis_management
 Loading Library libG4modeling
 Loading Library libG4interfaces
 Loading Library libG4persistency
 Loading Library libG4analysis
 Loading Library libG4error_propagation
 Loading Library libG4readout
 Loading Library libG4physicslists
 Loading Library libG4run
 Loading Library libG4event
 Loading Library libG4tracking
 Loading Library libG4parmodels
 Loading Library libG4processes
 Loading Library libG4digits_hits
 Loading Library libG4track
 Loading Library libG4particles
 Loading Library libG4geometry
 Loading Library libG4materials
 Loading Library libG4graphics_reps
 Loading Library libG4intercoms
 Loading Library libG4global
 Loading Library libG4clhep
Loading g4root library ...
Loading libraries ... finished
dyld: lazy symbol binding failed: Symbol not found: __ZN6RootGM7FactoryC1Ev
  Referenced from: /Users/raghav/EICROOT/sep12-build/lib/libgeant4vmc.so
  Expected in: flat namespace

dyld: Symbol not found: __ZN6RootGM7FactoryC1Ev
  Referenced from: /Users/raghav/EICROOT/sep12-build/lib/libgeant4vmc.so
  Expected in: flat namespace

As always many thanks for your help
Cheers
Raghav

Subject: Re: fairbase does not compiile properly as is (10-5-12)
Posted by Raphael Cervantes on Mon, 08 Oct 2012 16:28:23 GMT
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Hi Florian,
Thank you for fixing issues regarding cmake. However, like Raghav, I am still having problems running Geant4 with the rutherford example. I get the exact same errors that I described in my second post. Has anyone else besides Raghav and myself ran into any issues running geant4? Has anyone come up with a solution?

Again, thank you Florian for your response.

-Raphael

Subject: Re: fairbase does not compiile properly as is (10-5-12)
Posted by Florian Uhlig on Thu, 11 Oct 2012 10:44:18 GMT
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Hi Raphael,

the problem with Geant4 is fixed now, so please update your local working copy and try again.

If the problem is solved for you please add the string [SOLVED] to the topics of the two threads.

Ciao

Florian

Subject: Re: fairbase does not compiile properly as is (10-5-12)
Posted by Raphael Cervantes on Thu, 11 Oct 2012 23:03:42 GMT
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[SOLVED]

Subject: Re: fairbase does not compiile properly as is (10-5-12) [SOLVED]
Posted by Florian Uhlig on Fri, 12 Oct 2012 09:19:35 GMT
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Hi Raphael,

I meant changing the title of the first message of this thread, which I did now. This is the topic which is shown in the list of all topics. Changing this after the topic is solved helps keeping track of problems.

Ciao

Florian
