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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.

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## File Attachments

1) [makeAsIs.txt](#), downloaded 406 times

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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 `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

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- 1) [geant4SegFault.txt](#), downloaded 283 times
  - 2) [geant4now.txt](#), downloaded 292 times
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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

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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

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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=1788&S=2ec8d4daab8502a0c37cbf69f69a6a02#page\\_top](https://forum.gsi.de/index.php?t=tree&th=3614&start=0&rid=1788&S=2ec8d4daab8502a0c37cbf69f69a6a02#page_top))

So it still gives me the following error regarding Geant4

-l- 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

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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

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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

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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]

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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

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