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Subject: error in dfcIn.h with external packages

Posted by [C. A. Douma](#) on Mon, 28 Dec 2015 18:54:00 GMT

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When I try to compile the external packages on Ubuntu 15, The compilation terminates and the compiler says that there is an error in the file dfcIn.h located in /usr/include/  
Does anyone know how to fix this?

Christiaan

PS: the error message is included in the screenshot

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#### File Attachments

1) [Screenshot from 2015-12-28 19-45-13.png](#), downloaded 316 times

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Subject: Re: error in dfcIn.h with external packages

Posted by [Dmytro Kresan](#) on Tue, 29 Dec 2015 06:45:12 GMT

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Hi Christiaan,

the complete output would be helpful. Redirect the cout and cerr to a text file and attach it here.

```
./configure.sh > std.log 2> err.log
```

In addition, try to compile with ROOT 6 instead of ROOT 5 - makes more sense with such new system as Ubuntu 15.

I expect you are using the latest FairSoft version nov15

Cheers,  
Dima

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Subject: Re: error in dfcIn.h with external packages

Posted by [C. A. Douma](#) on Tue, 05 Jan 2016 13:26:16 GMT

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Dear Mr. Kresan,

Compiling with ROOT 6 works. However, when I start ROOT 6 afterwards, I get a message that G\_\_OPTIMIZE does not work. When I then try to declare a histogram or something, ROOT crashes.

Obtaining the complete output is however very difficult. Your command `./configure.sh > std.log 2> err.log` prevents me from entering the inputs that the script `./configure.sh` requires, hence I cannot compile.

In order to solve this problem I removed Ubuntu 15 from my PC and installed Ubuntu 14

instead. This causes some clashes between Ubuntu and Windows 7 that do not occur with Ubuntu 15, but without FairRoot, Ubuntu has no purpose for me... On Ubuntu 14 FairSoft and FairRoot compile succesfully (I used the newest versions).

However, when I try to compile R3BRoot afterwards, I get an error message that the ROOT dictionary could not be found. (See attachment, it contains the full output for R3BRoot). Installation of the FairRoot project Template gives the same message. Can you help me?

Thanks in advance!  
Christiaan.

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## File Attachments

1) [R3Blog.txt](#), downloaded 240 times

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Subject: Re: error in dfcln.h with external packages  
Posted by [Dmytro Kresan](#) on Thu, 07 Jan 2016 13:15:17 GMT  
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Hi Christiaan,

With which debug / optimisation option did you compile ROOT 6?

To your dictionary problem with R3BRoot and ROOT5: I was not able to reproduce your problem. Please try compiling the dev branch:

```
cd R3BRoot
git checkout dev
git pull
```

then recompile

It can be that you will get problems with Geant4 physics lists. Fast solution: switch off directory "plists" from the main CMakeLists.txt

The best way is anyhow try to get ROOT 6 running. This is actively supported system.

Cheers,  
Dima

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Subject: Re: error in dfcln.h with external packages  
Posted by [C. A. Douma](#) on Thu, 07 Jan 2016 13:59:34 GMT  
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Dear Mr. Kresan,

I compiled ROOT 6 on Ubuntu 15 with option 3: optimize (because I want my simulations to run as fast as possible) This is also the option that I use for ROOT 5 on ubuntu 14

I find it strange that you cannot reproduce the problem on the ROOT dictionary. I tried the installation with the latest versions of FairSoft, FairRoot and R3BRoot on several Ubuntu 14 systems and they all produce the same error. Could it be that I am skipping a vital part of the installation?

After running configure.sh on fairsoft, I add the following to my .bashrc

```
export SIMPATH=<path to>/FairSoft_Build/  
export PATH=$PATH:$SIMPATH/bin/  
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$SIMPATH/lib/:$SIMPATH/lib/root/
```

Then I compile FairRoot with a simple set of commands:

```
cmake  
make  
make install
```

Then I add to my .bashrc the following lines (after the previous 3 lines):

```
source <path to>/FairRoot_Install/bin/FairRootConfig.sh  
export FAIRROOTPATH=<path to>/FairRoot_Install/
```

Then I give the cmake command for R3BRoot. Then the error appears. It happens both for the dev branch as for the master branch. For FairSoft and FairRoot I always use the latest dev branch.

Which part do I miss?

Christiaan

PS: When redirecting the output of the FairSoft compilation to a file, I get an error because once the output of configure.sh is no longer on the terminal, I cannot enter the compilation options anymore. Do you have a trick for this?

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Subject: Re: error in dfcln.h with external packages  
Posted by [Dmytro Kresan](#) on Thu, 07 Jan 2016 14:13:55 GMT  
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You can not compile R3BRoot with a config file of FairRoot. Also what you add to bashrc is not really necessary. Configuration will be stored in config.sh of R3BRoot at the end.

Please go carefully step-by-step through installation instructions:

<https://www.r3broot.gsi.de/fairroot-installation>

<https://www.r3broot.gsi.de/r3broot-installation>

Cheers,  
Dima

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Subject: Re: error in dfcIn.h with external packages  
Posted by [C. A. Douma](#) on Thu, 07 Jan 2016 20:09:50 GMT  
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Dear Mr. Kresan,

I followed exactly all the steps of the webpages you sent me.  
The only difference is that I download the source from github instead of using a tarball.  
I tried to switch between master and dev branch of FairSoft and FairRoot and R3BRoot.  
None of this solves the problem. I also tried to switch the FairRootConfig.sh file on and off and this also does not solve the problem.

Thank you for all the effort you put in it.  
Christiaan.

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Subject: Re: error in dfcIn.h with external packages  
Posted by [Dmytro Kresan](#) on Fri, 08 Jan 2016 11:00:42 GMT  
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I think I have found the problem. Currently, both dev and master branches of R3BRoot are well tested and working with latest stable releases of FairSoft (nov15p1) and FairRoot (v-15.11). Because of holidays, I did not come yet to test it with development versions. Please try to compile with tar balls from:

<https://github.com/FairRootGroup/FairSoft/releases/tag/nov15p1>

<https://github.com/FairRootGroup/FairRoot/releases/tag/v-15.11>

This will work for sure.

Cheers,  
Dima

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Subject: Re: error in dfcIn.h with external packages  
Posted by [C. A. Douma](#) on Fri, 08 Jan 2016 16:30:10 GMT  
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Thank you! I will try the tarballs and let you know if it works a.s.a.p.

Christiaan.

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Subject: Re: error in dfcln.h with external packages  
Posted by [C. A. Douma](#) on Sat, 09 Jan 2016 18:17:20 GMT  
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Dear Mr. Kresan,

your tar versions solved all problems! Both for Ubuntu 14 as for Ubuntu 15  
(compiled with GCC, ROOT 5 optimized, simulation engines, internet data files & python  
bindings)

Many thanks!  
Christiaan.

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