
Subject: [FIXED] problems in installing a pandaroot release (usual problems)

Posted by [Elisabetta Prencipe \(2\)](#) on Tue, 12 Apr 2016 12:05:56 GMT

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Dear all,

since one year I find very difficult to install new releases in pandaroot. The problem is always the same: when arriving at the point to compile, I get error, and I don't know why.

This time I tried to install everything from scratch, e.g.

<https://panda-wiki.gsi.de/foswiki/bin/view/Computing/PandaRootInstallGit>

(standard installations)

1) Installing again external package fairsoft_mar15.... fine!

2) Installing FairRoot...troubles:

```
>>>> cmake
```

```
-DCMAKE_INSTALL_PREFIX=/home/prencipe/panda/fairsoft_mar15/buildFairRoot  
/home/prencipe/panda/fairsoft_mar15/FairRoot
```

```
-- fairsoft-config found
```

```
-- C compiler used for FairSoft installation: /usr/bin/gcc
```

```
-- C compiler used now: /usr/bin/gcc
```

```
-- CXX compiler used for FairSoft installation: /usr/bin/g++
```

```
-- CXX compiler used now: /usr/bin/c++
```

```
-- The compiler during the compilation of FairSoft is different from the current one.
```

```
CMake Error at cmake/modules/CheckCompiler.cmake:64 (Message):
```

```
This is seen as an error. If you know that the setting is correct you can
```

```
silence the error by using the CMake flag -DUSE_DIFFERENT_COMPILER=TRUE
```

```
Call Stack (most recent call first):
```

```
  CMakeLists.txt:55 (Check_Compiler)
```

3) even not possible this time to start the installation of the release. In general, I get trouble when doing cmake in the release/build. This time a step above. I am following step by step the tutorial. MY OS is Fedora19.

At the third attempt of the day, deleting everything and starting all over again, I give up.

If nobody has any idea how to solve and improve this, I cannot test genfit2 in releases >= mar15. From my point of view, it works good in oct14, as in my /development/ no problems occur.

It is a pain since one year to work with new pandaroot releases, really...

Looking forward to hear from you

Best regards, Elisabetta

Subject: Re: problems in installing a pandaroot release (usual problems)

Posted by [Stefano Spataro](#) on Tue, 12 Apr 2016 12:28:39 GMT

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Elisabetta Prencipe (2) wrote on Tue, 12 April 2016 14:05: Dear all,
2) Installing FairRoot...troubles:

```
>>>> cmake
-DCMAKE_INSTALL_PREFIX=/home/prencipe/panda/fairsoft_mar15/buildFairRoot
/home/prencipe/panda/fairsoft_mar15/FairRoot

-- fairsoft-config found
-- C compiler used for FairSoft installation: /usr/bin/gcc
-- C compiler used now: /usr/bin/gcc
-- CXX compiler used for FairSoft installation: /usr/bin/g++
-- CXX compiler used now: /usr/bin/c++
-- The compiler during the compilation of FairSoft is different from the current one.
CMake Error at cmake/modules/CheckCompiler.cmake:64 (Message):
  This is seen as an error. If you know that the setting is correct you can
  silence the error by using the CMake flag -DUSE_DIFFERENT_COMPILER=TRUE
Call Stack (most recent call first):
  CMakeLists.txt:55 (Check_Compiler)
.
```

First of all, it should be:

```
cmake -DCMAKE_INSTALL_PREFIX=/home/prencipe/panda/fairsoft_mar15/buildFairRoot
/home/prencipe/panda/fairsoft_mar15/buildFairRoot ../
```

CMAKE_INSTALL_PREFIX is where you are going to export the libraries, not where the code is staying. If you check the wiki page:

```
pandauser@panda-VirtualBox:~/fairsoft_mar15/FairRoot/build$ cmake
-DCMAKE_INSTALL_PREFIX=/home/pandauser/fairsoft_mar15/buildFairRoot
/home/pandauser/fairsoft_mar15/FairRoot
```

Second, the error is known, and in wiki it is described how to fix it:

```
pandauser@panda-VirtualBox:~/fairsoft_mar15/FairRoot/build$ cmake
-DUSE_DIFFERENT_COMPILER=TRUE
-DCMAKE_INSTALL_PREFIX=/home/pandauser/fairsoft_mar15/buildFairRoot
/home/pandauser/fairsoft_mar15/FairRoot
```

Subject: Re: problems in installing a pandaroot release (usual problems)

Posted by [Elisabetta Prencipe \(2\)](#) on Tue, 12 Apr 2016 12:34:50 GMT

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Hello Stefano,

following your instruction n. 1 (which is not what I read in the wiki) I get again:

```
-- fairsoft-config found
-- C compiler used for FairSoft installation: /usr/bin/gcc
-- C compiler used now: /usr/bin/gcc
-- CXX compiler used for FairSoft installation: /usr/bin/g++
-- CXX compiler used now: /usr/bin/c++
-- The compiler during the compilation of FairSoft is different from the current one.
CMake Error at cmake/modules/CheckCompiler.cmake:64 (Message):
  This is seen as an error. If you know that the setting is correct you can
  silence the error by using the CMake flag -DUSE_DIFFERENT_COMPILER=TRUE
Call Stack (most recent call first):
  CMakeLists.txt:55 (Check_Compiler)
```

```
-- Configuring incomplete, errors occurred!
See also "/home/prencipe/panda/fairsoft_mar15/FairRoot/build/CMakeFiles/CMakeOutput.log".
```

any idea? thanks,
cheers, Elisabetta

Subject: Re: problems in installing a pandaroot release (usual problems)
Posted by [Elisabetta Prencipe \(2\)](#) on Tue, 12 Apr 2016 12:40:01 GMT
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Hi again,

what I mean is:

```
~/fairsoft_mar15/FairRoot/build$ cmake
-DCMAKE_INSTALL_PREFIX=/home/prencipe/panda/fairsoft_mar15/buildFairRoot
/home/prencipe/panda/fairsoft_mar15/FairRoot
```

I get error at this point.

This is what I read in the wiki.

Elisabetta

Subject: Re: problems in installing a pandaroot release (usual problems)
Posted by [Stefano Spataro](#) on Tue, 12 Apr 2016 12:49:33 GMT
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Hi:

You did not notice the second line in the box.

About the problem -DUSE_DIFFERENT_COMPILER, the solution is described in the second point.

```
cmake -DUSE_DIFFERENT_COMPILER=TRUE
-DCMAKE_INSTALL_PREFIX=/home/pandauser/fairsoft_mar15/buildFairRoot
/home/pandauser/fairsoft_mar15/FairRoot
```

File Attachments

1) [Schermata 2016-04-12 alle 14.40.43.png](#), downloaded 284 times

Subject: Re: problems in installing a pandaroot release (usual problems)
Posted by [Elisabetta Prencipe \(2\)](#) on Tue, 12 Apr 2016 12:51:08 GMT
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...just tried...does not work.

I can delete again and start all over again....it's all the day long I ma doing this, one more, one less..... it should not be like so. It was not like so, indeed.

Elisabetta

Subject: Re: problems in installing a pandaroot release (usual problems)
Posted by [Stefano Spataro](#) on Tue, 12 Apr 2016 12:59:20 GMT
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What is the error message now?

Subject: Re: problems in installing a pandaroot release (usual problems)
Posted by [Elisabetta Prencipe \(2\)](#) on Tue, 12 Apr 2016 13:18:09 GMT
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Boost_INCLUDE_DIR (ADVANCED)

used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/base
used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/base
used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/parmq
used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/parmq
used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/parmq
used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/parmq
used as include directory in directory

/home/prencipe/panda/fairsoft_mar15/FairRoot/examples/advanced/Tutorial8

used as include directory in directory

/home/prencipe/panda/fairsoft_mar15/FairRoot/examples/advanced/Tutorial8

ZMQ_INCLUDE_DIR (ADVANCED)

used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/parmq

used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/parmq

-- Configuring incomplete, errors occurred!

See also " /home/prencipe/panda/fairsoft_mar15/FairRoot/build/CMakeFiles/CMakeOutput.t.log".

See also " /home/prencipe/panda/fairsoft_mar15/FairRoot/build/CMakeFiles/CMakeError.log".

Subject: Re: problems in installing a pandaroot release (usual problems)

Posted by [Elisabetta Prencipe \(2\)](#) on Tue, 12 Apr 2016 13:33:51 GMT

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Hi Stefano, some additional info about the debugging errors:

>>>>>>>>>>>

-- Building of the FairMQ library is switched off since C++11 or the necessary boost libraries couldn't be found on the system

running /bin/chmod u+x

/home/prencipe/panda/fairsoft_mar15/FairRoot/build/examples/advanced/Tutorial8/macros/unpack_mbs.sh 2>&1

CMake Error: The following variables are used in this project, but they are set to NOTFOUND.

Please set them or make sure they are set and tested correctly in the CMake files:

<<<<<<<<<<<<<<<<<<<<<<<

Could you suggest a further step to avoid the problem in compilation?

Thanks a lot for your help, Elisabetta

Subject: Re: problems in installing a pandaroot release (usual problems)

Posted by [Elisabetta Prencipe \(2\)](#) on Tue, 12 Apr 2016 14:01:46 GMT

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Hi again Stefano,

in the tutorial is written:

git checkout -b v-15.11 v-15.11

is the v-15.11 the current one? Maybe there is something to update in the tutorial? I say because in the message that I obtain is written:

-- C++11 support found.

-- Build CbmModule with Gdml support

-- C++11 support & boost libraries found. FairMQ will be built.

running /bin/chmod u+x

/home/prencipe/panda/fairsoft_mar15/FairRoot/build/examples/advanced/Tutorial8/macros/unpack_mbs.sh 2>&1

```
-- Found Git: /usr/bin/git (found version "1.8.3.1")
CMake Error: The following variables are used in this project, but they are set to NOTFOUND.
Please set them or make sure they are set and tested correctly in the CMake files:
ZMQ_INCLUDE_DIR (ADVANCED)
  used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/parmq
  used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/parmq
  used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq
  used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq
  used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq
  used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq
  used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq
  used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq
  used as include directory in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq
  used as include directory in directory
/home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq/test
  used as include directory in directory
/home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq/test
  used as include directory in directory
/home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq/test
  used as include directory in directory
/home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq/test
  used as include directory in directory
/home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq/test
  used as include directory in directory
/home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq/test
  used as include directory in directory
/home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq/test
  used as include directory in directory
/home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq/test
  used as include directory in directory
/home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq/test
  used as include directory in directory
/home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq/test
  used as include directory in directory
/home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq/test
  used as include directory in directory
/home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq/test
  used as include directory in directory
ZMQ_LIBRARY_SHARED (ADVANCED)
  linked by target "FairMQ" in directory /home/prencipe/panda/fairsoft_mar15/FairRoot/fairmq
```

```
-- Configuring incomplete, errors occurred!
See also "/home/prencipe/panda/fairsoft_mar15/FairRoot/build/CMakeFiles/CMakeOutput.log".
See also "/home/prencipe/panda/fairsoft_mar15/FairRoot/build/CMakeFiles/CMakeError.log".
```

Subject: Re: problems in installing a pandaroot release (usual problems)
Posted by [Stefano Spataro](#) on Tue, 12 Apr 2016 14:35:09 GMT
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v-15.11 is the FairRoot suggested version. I have never seen such error, but I don't have a Fedora 19.
You could try asking in the FairRoot forum.

Subject: Re: problems in installing a pandaroot release (usual problems)
Posted by [Elisabetta Prencipe \(2\)](#) on Tue, 12 Apr 2016 14:59:57 GMT

Hi,

what is the FairRoot forum?

What I see is that it is impossible to work with pandaroot for me, since a while. Only old releases.

Best regards, Elisabetta

Subject: Re: problems in installing a pandaroot release (usual problems)

Posted by [Stefano Spataro](#) on Tue, 12 Apr 2016 15:02:08 GMT

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<https://forum.gsi.de/index.php?t=i&cat=36&>

Subject: Re: problems in installing a pandaroot release (usual problems)

Posted by [Elisabetta Prencipe \(2\)](#) on Wed, 13 Apr 2016 08:57:09 GMT

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Hello Stefano,

it looks there were some problems with a few packages, that could not be checked just running the ./config.sh script.

So, 2 level-problems:

1) dependencies. Tobias helped yesterday with that. From the web page:

<https://github.com/FairRootGroup/FairSoft/blob/master/DEPENDENCIES>

Fedora, Redhat, Scientific Linux and other Redhat based systems:

```
yum install cmake gcc gcc-c++ gcc-gfortran make patch sed \  
libX11-devel libXft-devel libXpm-devel libXext-devel \  
libXmu-devel mesa-libGLU-devel mesa-libGL-devel ncurses-devel \  
curl bzip2 libbz2-dev gzip unzip tar expat-devel \  
subversion git flex bison imake redhat-lsb-core \  
python-devel libxml2-devel wget openssl-devel curl-devel \  
automake autoconf libtool
```

2) missing packages (pythia6, geant3,...)

I downloaded them manually, and now it works.

Florian proposes: git checkout -b tag_mar15p6 mar15p6 (please, see his last message in the general FairRoot forum).

Indeed, when doing 'cmake' I always need to type:

```
cmake -DUSE_DIFFERENT_COMPILER=TRUE
```

-DCMAKE_INSTALL_PREFIX=/home/prencipe/panda/fairsoft_mar15/buildFairRoot
/home/prencipe/panda/fairsoft_mar15/FairRoot

The patch '-DUSE_DIFFERENT_COMPILER=TRUE' is always needed (Fedora19) for both, FairRoot and pandaroot installation.

cheers, Elisabetta
