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Subject: Installation fails

Posted by [lanyzsombor](#) on Thu, 16 Mar 2017 15:48:38 GMT

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Hi Dima,

I'm installing R3BRoot to another computer, everything (FairSoft, FairRoot and R3BRoot) is the latest version, and I followed all the instructions that I followed before, when I installed it before, on my other machine. But cmake fails when building neuland/reconstruction directory with pointer error:

```
...
[ 53%] Building CXX object
neuland/reconstruction/CMakeFiles/R3BNeulandReconstruction.dir/Reconstru
ctionNeuralNetworkMultiplicity.cxx.o
/home/lanyi/R3BRoot/neuland/reconstruction/ReconstructionNeuralNetworkMu
ltiplicity.cxx: In
member function 'virtual std::vector<R3BNeulandNeutron>
Neuland::ReconstructionNeuralNetworkMultiplicity::GetNeutrons(const
std::vector<R3BNeulandCluster*>&) const':
/home/lanyi/R3BRoot/neuland/reconstruction/ReconstructionNeuralNetworkMu
ltiplicity.cxx:69:39: error: no matching function for call to
'FairMQSocketZMQ::Send(std::unique_ptr<FairMQMessageZMQ>::pointer, int)'
    fSocket->Send(msg.get(), 0);
                    ^
/home/lanyi/R3BRoot/neuland/reconstruction/ReconstructionNeuralNetworkMu
ltiplicity.cxx:69:39: note: candidates are:
In file included from
/home/lanyi/R3BRoot/neuland/reconstruction/ReconstructionNeuralNetworkMu
ltiplicity.h:6:0,
    from
/home/lanyi/R3BRoot/neuland/reconstruction/ReconstructionNeuralNetworkMu
ltiplicity.cxx:1:
/home/lanyi/FairRoot/install-v-16.06a/include/FairMQSocketZMQ.h:38:17: note: virtual int
FairMQSocketZMQ::Send(FairMQMessagePtr&, int)
    virtual int Send(FairMQMessagePtr& msg, const int flags = 0);
                    ^
/home/lanyi/FairRoot/install-v-16.06a/include/FairMQSocketZMQ.h:38:17: note: no known
conversion for argument 1 from 'std::unique_ptr<FairMQMessageZMQ>::pointer {aka
FairMQMessageZMQ*}' to 'FairMQMessagePtr& {aka std::unique_ptr<FairMQMessage>&}'
/home/lanyi/FairRoot/install-v-16.06a/include/FairMQSocketZMQ.h:41:21: note: virtual int64_t
FairMQSocketZMQ::Send(std::vector<std::unique_ptr<FairMQMessage> >&, int)
    virtual int64_t Send(std::vector<std::unique_ptr<FairMQMessage>>& msgVec, const int
flags = 0);
                    ^
/home/lanyi/FairRoot/install-v-16.06a/include/FairMQSocketZMQ.h:41:21: note: no known
conversion for argument 1 from 'std::unique_ptr<FairMQMessageZMQ>::pointer {aka
FairMQMessageZMQ*}' to 'std::vector<std::unique_ptr<FairMQMessage> >&'
/home/lanyi/R3BRoot/neuland/reconstruction/ReconstructionNeuralNetworkMu
ltiplicity.cxx:73:43: error: no matching function for call to
'FairMQSocketZMQ::Receive(std::unique_ptr<FairMQMessageZMQ>::pointer, int)'
    fSocket->Receive(answ.get(), 0);
                    ^
/home/lanyi/R3BRoot/neuland/reconstruction/ReconstructionNeuralNetworkMu
ltiplicity.cxx:73:43: note: candidates are:
```

```
In file included from
/home/lanyi/R3BRoot/neuland/reconstruction/ReconstructionNeuralNetworkMu ltiplicity.h:6:0,
from
/home/lanyi/R3BRoot/neuland/reconstruction/ReconstructionNeuralNetworkMu ltiplicity.cxx:1:
/home/lanyi/FairRoot/install-v-16.06a/include/FairMQSocketZMQ.h:39:17: note: virtual int
FairMQSocketZMQ::Receive(FairMQMessagePtr&, int)
    virtual int Receive(FairMQMessagePtr& msg, const int flags = 0);
    ^
/home/lanyi/FairRoot/install-v-16.06a/include/FairMQSocketZMQ.h:39:17: note: no known
conversion for argument 1 from 'std::unique_ptr<FairMQMessageZMQ>::pointer {aka
FairMQMessageZMQ*}' to 'FairMQMessagePtr& {aka std::unique_ptr<FairMQMessage>&}'
/home/lanyi/FairRoot/install-v-16.06a/include/FairMQSocketZMQ.h:42:21: note: virtual int64_t
FairMQSocketZMQ::Receive(std::vector<std::unique_ptr<FairMQMessage> >&, int)
    virtual int64_t Receive(std::vector<std::unique_ptr<FairMQMessage>>& msgVec, const int
flags = 0);
    ^
/home/lanyi/FairRoot/install-v-16.06a/include/FairMQSocketZMQ.h:42:21: note: no known
conversion for argument 1 from 'std::unique_ptr<FairMQMessageZMQ>::pointer {aka
FairMQMessageZMQ*}' to 'std::vector<std::unique_ptr<FairMQMessage> >&'
neuland/reconstruction/CMakeFiles/R3BNeulandReconstruction.dir/build.mak e:207: recipe for
target 'neuland/reconstruction/CMakeFiles/R3BNeulandReconstruction.dir/Reconstr
uctionNeuralNetworkMultiplicity.cxx.o' failed
make[2]: *** [neuland/reconstruction/CMakeFiles/R3BNeulandReconstruction.dir/Reconstr
uctionNeuralNetworkMultiplicity.cxx.o] Error 1
CMakeFiles/Makefile2:1587: recipe for target
'neuland/reconstruction/CMakeFiles/R3BNeulandReconstruction.dir/all' failed
make[1]: *** [neuland/reconstruction/CMakeFiles/R3BNeulandReconstruction.dir/all] Error 2
Makefile:138: recipe for target 'all' failed
make: *** [all] Error 2
```

Best regards,  
Zsombor

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Subject: Re: Installation fails  
Posted by [Dmytro Kresan](#) on Thu, 16 Mar 2017 16:00:07 GMT  
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Hi Lanyi,

Which compilers do you have on both machines? Please post here output of "gcc --version"

Best regards,  
Dima

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Subject: Re: Installation fails  
Posted by [lanyizsombor](#) on Thu, 16 Mar 2017 19:53:41 GMT  
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Gcc, g++ and gfortran is also version 4.9.3 (Ubuntu 4.9.3-13ubuntu2), because at the previous installation the compilation with newer versions failed, so I downgraded them.

Best,  
Zsombor

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Subject: Re: Installation fails  
Posted by [Dmytro Kresan](#) on Fri, 17 Mar 2017 05:23:59 GMT  
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There was an update of neuland directory some days ago. Can you try to run "git pull origin", previously committing your changes locally?

Meanwhile I will check with my Ubuntu installation, and which compiler I have there.

Best regards,  
Dima

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Subject: Re: Installation fails  
Posted by [lanyizsombor](#) on Fri, 17 Mar 2017 10:08:09 GMT  
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I pulled the repository the way you told (git pull origin), rebuilt the project, and now everything's fine. Thank you for the help.

Best regards,  
Zsombor

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Subject: Re: Installation fails  
Posted by [Jan Mayer](#) on Fri, 17 Mar 2017 12:22:08 GMT  
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That problem is on me - there was a change to FairMQ in FairRoot/dev which I do not yet have accounted for.

In the meantime you can simply exclude that specific file from build, that is in

neuland/CMakeLists.txt

```
if(ROOT_VERSION_MAJOR GREATER 5)
# add_subdirectory(reconstruction) <-- don't build that for the moment
  add_subdirectory(clustering)
  add_subdirectory(digitizing)
else(ROOT_VERSION_MAJOR GREATER 5)
```

Best,

Jan

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