
Subject: New update of fairroot not building properly
Posted by [Raghav Kunnawalkam](#) on Tue, 17 Apr 2012 15:50:39 GMT
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Hi All

I just updated my fairroot (after a break of about 3 weeks) and now it is giving me a lot of errors particularly in the examples, Tutorial1, 2 and rutherford.

Scanning dependencies of target Tutorial1

```
[ 59%] Building CXX object example/Tutorial1/src/CMakeFiles/Tutorial1.dir/FairTutorialDet.o
[ 59%] Building CXX object
example/Tutorial1/src/CMakeFiles/Tutorial1.dir/FairTutorialDetContFact.o
[ 60%] Building CXX object
example/Tutorial1/src/CMakeFiles/Tutorial1.dir/FairTutorialDetGeoPar.o
[ 60%] Building CXX object
example/Tutorial1/src/CMakeFiles/Tutorial1.dir/FairTutorialDetPoint.o
[ 60%] Building CXX object example/Tutorial1/src/CMakeFiles/Tutorial1.dir/FairTutorial1Dict.o
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx : In function 'void
G__cpp_setup_inheritanceFairTutorial1Dict()':
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1443: error:
'FairBasePoint' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1443: error:
'G__Lpbase' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1443: error: expected
primary-expression before ')' token
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1443: error: expected
';' before 'G__Lderived'
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1447: error:
'FairTimeStamp' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1447: error:
'G__Lpbase' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1447: error: expected
primary-expression before ')' token
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1447: error: expected
';' before 'G__Lderived'
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1455: error:
'FairLinkedData' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1455: error:
'G__Lpbase' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1455: error: expected
primary-expression before ')' token
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1455: error: expected
';' before 'G__Lderived'
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1536: error:
'FairLinkedData' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1536: error:
'G__Lderived' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1537: error: expected
primary-expression before ')' token
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1537: error: expected
';' before numeric constant
```

/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1547: error:
'FairLinkedData' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1547: error:
'G__Lpbase' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1547: error: expected
primary-expression before ')' token
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1547: error: expected
';' before 'G__Lderived'
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1556: error:
'FairTimeStamp' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1556: error:
'G__Lderived' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1557: error: expected
primary-expression before ')' token
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1557: error: expected
';' before numeric constant
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1563: error:
'FairLinkedData' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1563: error:
'G__Lpbase' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1563: error: expected
primary-expression before ')' token
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1563: error: expected
';' before 'G__Lderived'
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1572: error:
'FairBasePoint' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1572: error:
'G__Lderived' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1573: error: expected
primary-expression before ')' token
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1573: error: expected
';' before numeric constant
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1575: error:
'FairTimeStamp' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1575: error:
'G__Lpbase' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1575: error: expected
primary-expression before ')' token
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1575: error: expected
';' before 'G__Lderived'
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1583: error:
'FairLinkedData' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1583: error:
'G__Lpbase' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1583: error: expected
primary-expression before ')' token
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1583: error: expected
';' before 'G__Lderived'
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1595: error:
'FairBasePoint' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1595: error:
'G__Lpbase' was not declared in this scope

```
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1595: error: expected
primary-expression before ')' token
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1595: error: expected
`; before 'G__Lderived'
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1599: error:
'FairTimeStamp' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1599: error:
'G__Lpbase' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1599: error: expected
primary-expression before ')' token
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1599: error: expected
`; before 'G__Lderived'
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1607: error:
'FairLinkedData' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1607: error:
'G__Lpbase' was not declared in this scope
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1607: error: expected
primary-expression before ')' token
/Users/raghav/fairroot/build/example/Tutorial1/src/FairTutorial1Dict.cxx :1607: error: expected
`; before 'G__Lderived'
make[2]: *** [example/Tutorial1/src/CMakeFiles/Tutorial1.dir/FairTutorial1Dict.o] Error 1
make[1]: *** [example/Tutorial1/src/CMakeFiles/Tutorial1.dir/all] Error 2
make: *** [all] Error 2
```

I dont know if i can change anything in the fairtutorial1dict.cxx file because it is generated by cmake.

Any help would be greatly appreciated.
Cheers
Raghav

Subject: Re: New update of fairroot not building properly
Posted by [Raghav Kunnawalkam](#) on Tue, 17 Apr 2012 16:05:11 GMT
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Just wanted to add here that i also tried to update pandaroot (so that i can start working on getting to see tracks for my eicdetector by looking at how it is done in panda) and i am getting the same error when building pandaroot:

```
[ 52%] Building CXX object emc/CMakeFiles/Emc.dir/PndEmcContFact.cxx.o
[ 53%] Building CXX object emc/CMakeFiles/Emc.dir/PndEmcDict.cxx.o
/Users/raghav/pandaroot/build/emc/PndEmcDict.cxx: In function 'void
G__cpp_setup_inheritancePndEmcDict()':
/Users/raghav/pandaroot/build/emc/PndEmcDict.cxx:22519: error: 'FairBasePoint' was
not declared in this scope
/Users/raghav/pandaroot/build/emc/PndEmcDict.cxx:22519: error: 'G__Lpbase' was not
declared in this scope
/Users/raghav/pandaroot/build/emc/PndEmcDict.cxx:22519: error: expected
```

primary-expression before ')' token

/Users/raghav/pandaroot/build/emc/PndEmcDict.cxx:22519: error: expected `;' before
'G__Lderived'

/Users/raghav/pandaroot/build/emc/PndEmcDict.cxx:22531: error: 'FairLinkedData' was
not declared in this scope

....

And the funny thing is that it is the same function inside the Dict.cxx file which is showing up
will all the problems.

Subject: Re: New update of fairroot not building properly
Posted by [Stefano Spataro](#) on Tue, 17 Apr 2012 16:07:13 GMT
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I have compiled pandaroot 30 minutes ago and everything was running nicely.
Just clean the build folder and compile there again.

Subject: Re: New update of fairroot not building properly
Posted by [Raghav Kunnawalkam](#) on Tue, 17 Apr 2012 16:13:37 GMT
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Hi Stefano,

thanks for the quick reply.

this may be a dumb question but when you mean clean the build folder, do i just delete all the
things which there and make it look like how it was when i first downloaded it?

Cheers
Raghav

Subject: Re: New update of fairroot not building properly
Posted by [Stefano Spataro](#) on Tue, 17 Apr 2012 16:15:25 GMT
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In general I remove everything (rm -r build/*), just to be sure.

Subject: Re: New update of fairroot not building properly
Posted by [Mohammad Al-Turany](#) on Tue, 17 Apr 2012 16:26:50 GMT
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Hi,

This is due to the last changes (we remove some classes and re-design some),

there is two ways to solve that:

1. in your source directory:

```
find . -name "*LinkDef*" -exec touch {} \;
```

then call make

2. remove everything in the build directory and call cmake and make again.

regards,
Mohammad

Subject: Re: New update of fairroot not building properly
Posted by [Raghav Kunnawalkam](#) on Tue, 17 Apr 2012 16:38:23 GMT
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Hi

Thanks a lot guys. Looks like its working now.

So is it better if i do this every time i do an update. rather than just building it, first deleting everything and then creating it.

Cheers
Raghav

Subject: Re: New update of fairroot not building properly
Posted by [Mohammad Al-Turany](#) on Tue, 17 Apr 2012 16:53:12 GMT
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Hi,

Quote:So is it better if i do this every time i do an update. rather than just building it, first deleting everything and then creating it.

NO, not at all. this is an exceptional case. We tried to avoid this but we had no chance it was a change in the base classes for the MC points and Hits. It was also announced in the Panda computing meeting on Monday.

Cheers,

Mohammad

Subject: Re: New update of fairroot not building properly
Posted by [StefanoSpataro](#) on Tue, 17 Apr 2012 16:54:26 GMT
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No,
you will lose too much time. You can clean when you see errors with the dictionary, but
maybe just deleting the crashing packages could be enough.
