Subject: Problem when using boost libraries
Posted by Stanislav Poslavsky on Fri, 25 Oct 2013 12:56:28 GMT
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Good day.

I'm working under implementation of a custom generator in PandaRoot and would like to use some boost libraries. All ok, when I use boost::random, but, when I simply try to include

#include <boost/date_time/posix_time/posix_time.hpp>

I have a very long stack of compilation errors with a typical line looking as

Error: G__getvariable: expression
/home/stas/distr/pandaroot/external/build//include/boost/config.hpp:23:

Same with other boost libraries, like boost::iostreams etc. After some search with google, I found that problems might arise from incompatibilities of boost and CINT preprocessors.

So, is there any way to use boost libraries inside PandaRoot?

Thanks, Stanislav.

Subject: Re: Problem when using boost libraries
Posted by Mohammad Al-Turany on Fri, 25 Oct 2013 13:15:39 GMT
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Hi,

in your header file:

#if !defined(__CINT__) || defined(__MAKECINT__)
#include <boost/date_time/posix_time/posix_time.hpp>
#endif

Cheers,

Mohammad

Subject: Re: Problem when using boost libraries
Posted by Stanislav Poslavsky on Fri, 25 Oct 2013 13:26:16 GMT
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Thanks!

But what if this condition fails (`__CINT__` is defined and `__MAKECINT__` is not) => #include statement is ignored? How I can use boost libraries in this case?

(I see only one way - compile my library without __CINT__ and make a .so file, then use it as an external complied library - but, I try to find another solution)

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Subject: Re: Problem when using boost libraries
Posted by Mohammad Al-Turany on Fri, 25 Oct 2013 13:36:14 GMT
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These are the only conditions which are used in ROOT when CINT is processing your class or create a dictionary for it. You can also put the boost includes only in your implementation files to avoid this! in any case in the near future will get rid of CINT completely!

Cheers,
Mohammad

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Subject: Re: Problem when using boost libraries
Posted by Stanislav Poslavsky on Fri, 25 Oct 2013 13:41:37 GMT
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It works! When I put #include only in .cxx all goes fine.

Many thanks,
Stanislav

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