Subject: Cannot compile with CLANG on Linux Mint
Posted by Tom1 on Thu, 23 Feb 2023 12:02:28 GMT
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Hi,

For some reason I cannot compile with CLANG on Linux Mint anymore. GCC compilation still works, but CLANG halts on Core.h with:
/home/tom/upp.src/uppsrc/Core/Core.h:53:10: fatal error: 'typeinfo' file not found
This happened on both of my Linux installations quite recently.

Anyone else having similar issues? Any ideas how to solve this?

Best regards,

Tom

EDIT: OK, I manually added INCLUDE directories:
/usr/include/c++/11
/usr/include/x86_64-linux-gnu/c++/11

And LIB directories:
/usr/lib/x86_64-linux-gnu/11

Now I can compile, link and the executable runs.

What has changed so that I had to do this?

Subject: Re: Cannot compile with CLANG on Linux Mint
Posted by mirek on Mon, 27 Feb 2023 10:34:10 GMT
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Tom1 wrote on Thu, 23 February 2023 13:02Hi,

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What has changed so that I had to do this?

I guess if your compiler does not see <typeinfo> (which is internal header), it is not our fault - something must have gone wrong with your platform.

In any case, have tried without theide? Just create a file with #include <typeinfo> and try to compile it from command line (clang++ foo.cpp).

Subject: Re: Cannot compile with CLANG on Linux Mint
Posted by Tom1 on Mon, 27 Feb 2023 11:23:18 GMT
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Mirek,

Sorry for the false alarm and thanks for the diagnostic tip. This is clearly not an U++ issue.

I followed your instructions and "clang++ foo.cpp" fails with the same error. So, CLANG compilation is broken on my both Linux Mint systems. It must be some unfortunate update that broke it, I guess.

Best regards,

Tom

Subject: Re: Cannot compile with CLANG on Linux Mint
Posted by Tom1 on Sun, 19 Mar 2023 18:43:44 GMT
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Hi,

There's certainly something weird going on with Linux Mint. Again, building broke down, this time when linking. After digging a bit, I found that now the library location needed to be changed from what used to work.

In order to make it easier, I appended the current paths into .profile in my home directory:

export CPLUS_INCLUDE_PATH="/usr/include/c++/11:/usr/include/x86_64-linux-gnu/c++/11"
export LIBRARY_PATH="/usr/lib/gcc/x86_64-linux-gnu/11"

We'll see how long this works until it breaks again...

Best regards,

Tom

Subject: Re: Cannot compile with CLANG on Linux Mint
Posted by devilsclaw on Mon, 10 Jul 2023 17:18:39 GMT
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I just got an update on Ubuntu 20.04 and this just happened to me also.

The above environment changes also worked for me.

Subject: Re: Cannot compile with CLANG on Linux Mint
Posted by devilsclaw on Mon, 10 Jul 2023 17:33:57 GMT
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The current fix I found was to install libstd++-12-dev based off this post
https://bugs.launchpad.net/ubuntu/+source/clang/+bug/1997600

Subject: Re: Cannot compile with CLANG on Linux Mint
Posted by Tom1 on Wed, 12 Jul 2023 07:40:28 GMT
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devilsclaw wrote on Mon, 10 July 2023 20:33The current fix I found was to install libstd++-12-dev based off this post https://bugs.launchpad.net/ubuntu/+source/clang/+bug/1997600
Hi,

Thanks. Tried this and it works for me too. However, the package must be libstdc++-12-dev (not libstd++-12-dev):

sudo apt-get install libstdc++-12-dev

Best regards,

Tom

Subject: Re: Cannot compile with CLANG on Linux Mint
Posted by devilsclaw on Wed, 12 Jul 2023 13:16:31 GMT
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Thanks for correcting that. I must of just miss typed it.