Subject: libclang/asist++ crashes theide when source contains language feature...
Posted by Lance on Sat, 28 Dec 2024 02:18:59 GMT
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I recently upgraded to u++ version 17517 and had a crash with theide which I believe is because source files contains language features more recent than as set in "Setup/Settings/Assist[tab]/Assist C++ standard". Somehow mine is reset to c++17 because of the upgrade or whatnot.

Setting the 'Assist C++ standard' to C++23 fixed the problem.

Subject: Re: libclang/asist++ crashes theide when source contains language feature...
Posted by Klugier on Sat, 28 Dec 2024 17:57:52 GMT
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Hello Lance,

Thank you for your report! Can you provide call stack and exemplary code that cause issue? Crash is not acceptable even if there is an option to avoid it.

Klugier

Subject: Re: libclang/asist++ crashes theide when source contains language feature...
Posted by Lance on Sat, 28 Dec 2024 22:01:48 GMT
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Hello Klugier,

Thank you for your attention to this matter.

I managed to get the call stack in gdb.

...
#37 0x0000555555bd96ef in clang_parseTranslationUnit
(CIdx=0x7fffd15f6f60, source_filename=0x0, command_line_args=0x7fffd15eb060,
num_command_line_args=60, unsaved_files=0x7fffba9f2a30, num_unsaved_files=1,
options=2885)
at /home/lance/upp.src/uppsrc/ide/clang/libclang.cpp:184
#38 0x0000555555be083e in Clang::Parse (this=0x7fffd157b110, filename_=..., content=...,
includes_=..., defines=..., options=2885, filename2=..., content2=...)
at /home/lance/upp.src/uppsrc/ide/clang/clang.cpp:155
i_ss_ = {<Upp::NoCopy> = {<No data fields>}, mutex = {{__data = {__lock = 0, __count = 0,

__owner = 0, __nusers = 0, __kind = 1, __spins = 0, __elision = 0, __list = {__prev = 0x0, __next = 0x0}}, __size = '\000' <repeats 16 times>, "\001", '\000' <repeats 22 times>, __align = 0}}}
...

Subject: Re: libclang/asist++ crashes theide when source contains language feature...
Posted by Lance on Sat, 28 Dec 2024 22:12:59 GMT
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It's weird.

With Assist C++ standard set to 'C++ 17',

So there is a line

#include "bits/vector.hpp"

If I comment the line, theide is fine. If I uncomment it, ide crashed almost right away. However, If I go to that bits/vector.hpp, theide is very happy with it. It's confirmed even with a big green check mark. More weired, if I recreate the file with the files it include in a seperate package, theide is also happy.

And If I set Assist C++ standard set to 'C++ 23', no problem at all.

Subject: Re: libclang/asist++ crashes theide when source contains language feature...
Posted by Lance on Sat, 28 Dec 2024 23:38:15 GMT
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Hello Klugier,

I managed to create a minimal package to reprodue the crash. Unpack, eg to MyApps folder, open the package, and go to main.cpp, with

[V] Assit libclang parser is enabled (needs restart)
(BTW, does 'Enable Assist libclang parser' sound more natural?)

enabled, and Assist C++ standard set to 'C++17'
if not yet.

On my machine, it crashed within a few seconds. Please let me know if it behaves differently.

BTW, my upp version is 17517.

Thanks for your effort!

Lance

File Attachments

1) CrashDemo.tar.bz2, downloaded 297 times