Subject: Problem with custom 32-bit compilers Posted by neo_in_matrix on Sat, 04 Jun 2022 13:49:06 GMT View Forum Message <> Reply to Message

After experimenting with TheIDE for a few days, I found a few quite annoying small problems (though in general it's great).

It does not work well with 32-bit compilers other than the bundled/builtin CLANG 32-bit one. I have various small problems. Here are some of the most prominent:

* It does not build a package with WINOWS RC file if use a 32-bit compiler other than the bundled 32-bit CLANG.

* Debugging experience (32-bit) is aweful - it soemtimes works sometimes it does not. When I hit F5 to start debugging, there is a dark purple-ish tooltip quickly appeared and disappeared at the right bottom corner of TheIDE main window, something like "There is no symbolic information". However, if I manually start "gdb program.exe", gdb states there it loads debugging information correctly and I can set breakpoints as I want.

* For the following simple program: #include <iostream> using namespace std;

```
int main(int argc, const char *argv[])
{
  for (int i = 0; i < argc; i++)
    cout << i << ":" << argv[i] << endl;
  return 0;
}</pre>
```

If I set breakpoint on the "for" loop line, the debugger won't break. However, it correctly breaks if I set breakpoint at the "return 0" line.

Note - I am on Windows platform (Windows 8 Pro). I have the following compilers (build methods) configured: MinGW gcc 8.1.0 MSYS2 gcc version 12.1.0 Winlibs gcc version 11.3.0

EDIT:

TheIDE won't stop at the breakpoint, even though the log shows gdb correctly sets breakpiont.

----- SQLite (MAIN GCC DEBUG DEBUG_FULL WIN32) cd C:\Build\test\upp\purec\SQLite C:\Build\test\upp\purec\out\purec\winlibs32.Debug.Debug_Full.Noblitz\SQLite.exe (2328229 B) is up to date.

OK. (0:00.04) gdb C:\Build\test\upp\purec\out\purec\winlibs32.Debug.Debug_Full.Noblitz\SQLite.exe Command: set prompt <u++dbg-q98klwr835f427>

GNU gdb (GDB for MinGW-W64 i686, built by Brecht Sanders) 12.1

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Find the GDB manual and other documentation resources online at:

<http://www.gnu.org/software/gdb/documentation/>.

For help, type "help".

Type "apropos word" to search for commands related to "word"...

Reading symbols from

C:\Build\test\upp\purec\out\purec\winlibs32.Debug_Full.Noblitz\SQLite.exe... (qdb)

Time of `set prompt <u++dbg-q98klwr835f427>` 118.128 ms

======= Result:

GNU gdb (GDB for MinGW-W64 i686, built by Brecht Sanders) 12.1

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For help, type "help".

Type "apropos word" to search for commands related to "word"...

Reading symbols from

C:\Build\test\upp\purec\out\purec\winlibs32.Debug_Full.Noblitz\SQLite.exe...

(gdb)

Command: set disassembly-flavor intel

Command: set annotate 1

Time of `set annotate 1` 8.968 ms ========== Result:

Command: set height 0

Time of `set height 0` 8.578 ms ========= Result:

Command: set width 0

Command: set confirm off

Time of `set confirm off` 8.447 ms ========== Result:

Command: set print asm-demangle

Command: set print static-members off

Command: set print vtbl off

Command: set print repeat 0

Command: set print null-stop

Command: set new-console on

Fast Command: b C:/Build/test/upp/purec/SQLite/shell.c:22936 Breakpoint 1 at 0x42b435: file C:\Build\test\upp\purec\SQLite\shell.c, line 22936.

Result: Breakpoint 1 at 0x42b435: file C:\Build\test\upp\purec\SQLite\shell.c, line 22936.

Command: start Temporary breakpoint 2 at 0x42b435: file C:\Build\test\upp\purec\SQLite\shell.c, line 22936. Starting program: C:\Build\test\upp\purec\out\purec\winlibs32.Debug.Debug_Full.Noblitz\SQLite.exe

Breakpoint 1, main (argc=1, argv=0x1320dc0) at C:\Build\test\upp\purec\SQLite\shell.c:22936 C:\Build\test\upp\purec\SQLite\shell.c:22936:705962:beg:0x139b435

Time of `start` 187.488 ms ======= Result: Temporary breakpoint 2 at 0x42b435: file C:\Build\test\upp\purec\SQLite\shell.c, line 22936. Starting program: C:\Build\test\upp\purec\out\purec\winlibs32.Debug.Debug_Full.Noblitz\SQLite.exe

Breakpoint 1, main (argc=1, argv=0x1320dc0) at C:\Build\test\upp\purec\SQLite\shell.c:22936 C:\Build\test\upp\purec\SQLite\shell.c:22936:705962:beg:0x139b435

* 1 process 4956 1 (native)

C:\Build\test\upp\purec\out\purec\winlibs32.Debug_Full.Noblitz\ SQLite.exe

Command: continue Continuing. [Inferior 1 (process 4956) exited normally]

Time of `continue` 1.353936 s ============== Result: Continuing. [Inferior 1 (process 4956) exited normally]

Fast Command: frame No stack.

Result: No stack.

Subject: Re: Problem with custom 32-bit compilers Posted by neo_in_matrix on Sat, 04 Jun 2022 17:25:42 GMT View Forum Message <> Reply to Message

Just found out that CLANG.Debug.Debug_Full.Noblitz has program.pdb but other compilers don't.

Here are my configured compilers:

File Attachments 1) u++bm.PNG, downloaded 357 times

Subject: Re: Problem with custom 32-bit compilers Posted by neo_in_matrix on Thu, 09 Jun 2022 14:04:30 GMT View Forum Message <> Reply to Message

It seems TheIDE always ignores the fist breakpoint because I can successfuly manually debug mytest.exe.

Again, I want to emphasize that I have no problems with CLANG 32-bit when debugging - all breakpoints are working as expected.

Subject: Re: Problem with custom 32-bit compilers Posted by mirek on Sun, 10 Jul 2022 15:04:47 GMT View Forum Message <> Reply to Message

neo_in_matrix wrote on Thu, 09 June 2022 16:04 Again, I want to emphasize that I have no problems with CLANG 32-bit when debugging - all breakpoints are working as expected.

Why do not you just use clang 32?

It is a bit hard to support all existing toolchains in windows in the debugger, so let us say we only support bundled clang (and I see little reason to use anything else) and as backup/alternative visual c++ compiler.

mingw is not very suitable for any real development because linker is too slow.

Mirek

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