Subject: Re: Cannot debug application on ubuntu linux
Posted by alex-t on Thu, 05 Aug 2021 12:50:24 GMT
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Hmm... A very strange. If I pick debugger breakpoint to line 6 instead of line 5, debugger stops!!!

Log from this case (I select run to finish program):

----- ConsoleTest (MAIN CLANG DEBUG SHARED DEBUG_FULL BLITZ POSIX LINUX)
cd /data/3/soft/devel/IDEs/upp/MyApps/ConsoleTest
/data/3/soft/devel/IDEs/upp/.cache/upp.out/MyApps/CLANG.Debug.Debug_Full.Shared/ConsoleT
est (30024 B) is up to date.

OK. (0:00.00)
gdb -tty=/dev/pts/13
/data/3/soft/devel/IDEs/upp/.cache/upp.out/MyApps/CLANG.Debug.Debug_Full.Shared/ConsoleT
est
Command: set prompt <u++dbg-q98klwr835f427>
GNU gdb (Ubuntu 9.2-0ubuntu1~20.04) 9.2
Copyright (C) 2020 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
Type "show copying" and "show warranty" for details.
This GDB was configured as "x86_64-linux-gnu".
Type "show configuration" for configuration details.
For bug reporting instructions, please see:
<http://www.gnu.org/software/gdb/bugs/>.
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
/data/3/soft/devel/IDEs/upp/.cache/upp.out/MyApps/CLANG.Debug.Debug_Full.Shared/ConsoleT
est...
(gdb)
Time of `set prompt <u++dbg-q98klwr835f427>` 42.615 ms
=========== Result:
GNU gdb (Ubuntu 9.2-0ubuntu1~20.04) 9.2
Copyright (C) 2020 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
Type "show copying" and "show warranty" for details.

This GDB was configured as "x86_64-linux-gnu".
Type "show configuration" for configuration details.
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<http://www.gnu.org/software/gdb/bugs/>.
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
/data/3/soft/devel/IDEs/upp/.cache/upp.out/MyApps/CLANG.Debug.Debug_Full.Shared/ConsoleT
est...
(gdb)
===================
Command: set disassembly-flavor intel

Time of `set disassembly-flavor intel` 20.791 ms
========== Result:

===================
Command: set exec-done-display off

Time of `set exec-done-display off` 20.747 ms
========== Result:

===================
Command: set annotate 1

Time of `set annotate 1` 20.841 ms
========== Result:

===================
Command: set height 0

Time of `set height 0` 20.818 ms
========== Result:

===================
Command: set width 0

Time of `set width 0` 20.876 ms
========== Result:

===================
Command: set confirm off

Time of `set confirm off` 20.761 ms
========== Result:

```
===================
Command: set print asm-demangle

Time of `set print asm-demangle` 20.867 ms
========== Result:

===================
Command: set print static-members off

Time of `set print static-members off` 20.885 ms
========== Result:

===================
Command: set print vtbl off

Time of `set print vtbl off` 671 us
========== Result:

===================
Command: set print repeat 0

Time of `set print repeat 0` 20.772 ms
========== Result:

===================
Command: set print null-stop

Time of `set print null-stop` 671 us
========== Result:

===================
Fast Command: b /data/3/soft/devel/IDEs/upp/MyApps/ConsoleTest/ConsoleTest.cpp:6
Breakpoint 1 at 0x401211: file ConsoleTest.cpp, line 6.

Result: Breakpoint 1 at 0x401211: file ConsoleTest.cpp, line 6.

Command: start
Temporary breakpoint 2 at 0x4011e6: file ConsoleTest.cpp, line 5.
Starting program:
/data/3/soft/devel/IDEs/upp/.cache/upp.out/MyApps/CLANG.Debug.Debug_Full.Shared/ConsoleT
est

Temporary breakpoint 2, main (argc=1, argv=0x7fffffffd988) at ConsoleTest.cpp:5
/data/3/soft/devel/IDEs/upp/MyApps/ConsoleTest/ConsoleTest.cpp:5:66:beg:0x4011e6
5  std::cout << "bla-bla-bla" << std::endl;

Time of `start` 182.494 ms
```

========== Result:
Temporary breakpoint 2 at 0x4011e6: file ConsoleTest.cpp, line 5.
Starting program:
/data/3/soft/devel/IDEs/upp/.cache/upp.out/MyApps/CLANG.Debug.Debug_Full.Shared/ConsoleT
est

Temporary breakpoint 2, main (argc=1, argv=0x7fffffffd988) at ConsoleTest.cpp:5
/data/3/soft/devel/IDEs/upp/MyApps/ConsoleTest/ConsoleTest.cpp:5:66:beg:0x4011e6
5 std::cout << "bla-bla-bla" << std::endl;

===================
Command: info inferior
  Num Description   Executable
* 1   process 162236
/data/3/soft/devel/IDEs/upp/.cache/upp.out/MyApps/CLANG.Debug.Debug_Full.Shared/ConsoleT
est

Time of `info inferior` 20.821 ms
========== Result:
  Num Description   Executable
* 1   process 162236
/data/3/soft/devel/IDEs/upp/.cache/upp.out/MyApps/CLANG.Debug.Debug_Full.Shared/ConsoleT
est

===================
Command: continue
Continuing.

Breakpoint 1, main (argc=1, argv=0x7fffffffd988) at ConsoleTest.cpp:6
/data/3/soft/devel/IDEs/upp/MyApps/ConsoleTest/ConsoleTest.cpp:6:109:beg:0x401211
6 std::cout << "bla-bla-bla2" << std::endl;

Time of `continue` 20.834 ms
========== Result:
Continuing.

Breakpoint 1, main (argc=1, argv=0x7fffffffd988) at ConsoleTest.cpp:6
/data/3/soft/devel/IDEs/upp/MyApps/ConsoleTest/ConsoleTest.cpp:6:109:beg:0x401211
6 std::cout << "bla-bla-bla2" << std::endl;

===================
Fast Command: disas
Result: Dump of assembler code for function main(int, char const**):
   0x00000000004011d0 <+0>: push   rbp
   0x00000000004011d1 <+1>: mov   rbp,rsp
   0x00000000004011d4 <+4>: sub   rsp,0x20
   0x00000000004011d8 <+8>: mov   DWORD PTR [rbp-0x4],0x0
   0x00000000004011df <+15>: mov   DWORD PTR [rbp-0x8],edi

```
   0x00000000004011e2 <+18>: mov    QWORD PTR [rbp-0x10],rsi
   0x00000000004011e6 <+22>: movabs rdi,0x404080
   0x00000000004011f0 <+32>: movabs rsi,0x402004
   0x00000000004011fa <+42>: call   0x401050 <std::basic_ostream<char, std::char_traits<char>
>& std::operator<< <std::char_traits<char> >(std::basic_ostream<char, std::char_tra
    its<char> >&, char const*)@plt>
   0x00000000004011ff <+47>: mov    rdi,rax
   0x0000000000401202 <+50>: movabs rsi,0x401030
   0x000000000040120c <+60>: call   0x401060 <std::ostream::operator<<(std::ostream&
(*)(std::ostream&))@plt>
=> 0x0000000000401211 <+65>: movabs rdi,0x404080
   0x000000000040121b <+75>: movabs rsi,0x402010
   0x0000000000401225 <+85>: mov    QWORD PTR [rbp-0x18],rax
   0x0000000000401229 <+89>: call   0x401050 <std::basic_ostream<char, std::char_traits<char>
>& std::operator<< <std::char_traits<char> >(std::basic_ostream<char, std::char_tra
    its<char> >&, char const*)@plt>
   0x000000000040122e <+94>: mov    rdi,rax
   0x0000000000401231 <+97>: movabs rsi,0x401030
   0x000000000040123b <+107>: call   0x401060 <std::ostream::operator<<(std::ostream&
(*)(std::ostream&))@plt>
   0x0000000000401240 <+112>: xor    ecx,ecx
   0x0000000000401242 <+114>: mov    QWORD PTR [rbp-0x20],rax
   0x0000000000401246 <+118>: mov    eax,ecx
   0x0000000000401248 <+120>: add    rsp,0x20
   0x000000000040124c <+124>: pop    rbp
   0x000000000040124d <+125>: ret
End of assembler dump.

Fast Command: frame
#0  main (argc=1, argv=0x7fffffffd988) at ConsoleTest.cpp:6
/data/3/soft/devel/IDEs/upp/MyApps/ConsoleTest/ConsoleTest.cpp:6:109:beg:0x401211
6  std::cout << "bla-bla-bla2" << std::endl;

Result: #0  main (argc=1, argv=0x7fffffffd988) at ConsoleTest.cpp:6
/data/3/soft/devel/IDEs/upp/MyApps/ConsoleTest/ConsoleTest.cpp:6:109:beg:0x401211
6  std::cout << "bla-bla-bla2" << std::endl;

Fast Command: info threads
  Id   Target Id              Frame
* 1    process 162236 "ConsoleTest" main (argc=1, argv=0x7fffffffd988) at ConsoleTest.cpp:6

Result:   Id   Target Id              Frame
* 1    process 162236 "ConsoleTest" main (argc=1, argv=0x7fffffffd988) at ConsoleTest.cpp:6

Fast Command: print int
Attempt to use a type name as an expression

Result: Attempt to use a type name as an expression
```

Fast Command: print main
$1 = {int (int, const char **)} 0x4011d0 <main(int, char const**)>

Result: $1 = {int (int, const char **)} 0x4011d0 <main(int, char const**)>

Fast Command: print argc
$2 = 1

Result: $2 = 1

Fast Command: print const
A syntax error in expression, near `'.

Result: A syntax error in expression, near `'.

Fast Command: print char
Attempt to use a type name as an expression

Result: Attempt to use a type name as an expression

Fast Command: print argv
$3 = (const char **) 0x7fffffffd988

Result: $3 = (const char **) 0x7fffffffd988

Fast Command: print std
Attempt to use a type name as an expression

Result: Attempt to use a type name as an expression

Fast Command: print cout
No symbol "cout" in current context.

Result: No symbol "cout" in current context.

Fast Command: print endl
No symbol "endl" in current context.

Result: No symbol "endl" in current context.

Fast Command: print return
No symbol "return" in current context.

Result: No symbol "return" in current context.

Fast Command: print iostream
A syntax error in expression, near `'.

Result: A syntax error in expression, near `'.

Command: continue
Continuing.
[Inferior 1 (process 162236) exited normally]

Time of `continue` 6.999 ms
=========== Result:
Continuing.
[Inferior 1 (process 162236) exited normally]

===================
Fast Command: frame
No stack.

Result: No stack.

File Attachments
1) Screenshot from 2021-08-05 15-46-31.png, downloaded 590 times