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Subject: Cannot debug application on ubuntu linux  
Posted by [alex-t](#) on Wed, 04 Aug 2021 20:58:03 GMT  
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Hi!

I just installed up and trying to debug simple program.

Compiling and run works fine, but I can't run it with debugger.

Build methods screen in attached files.

After I start debug this console window appears, Warning: Program 'tail' crashed.

How to fix it? May be I have some wrong settings in Thelde or system?

File Attachments

1) [Screenshot from 2021-08-04 23-49-44.png](#), downloaded 182 times

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Subject: Re: Cannot debug application on ubuntu linux

Posted by [mirek](#) on Wed, 04 Aug 2021 21:18:50 GMT

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First thing I would verify that gdb works if launched from terminal. Like compile your app into ~, then run "gdb appname" from the console.

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Subject: Re: Cannot debug application on ubuntu linux

Posted by [alex-t](#) on Thu, 05 Aug 2021 08:33:37 GMT

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---

This window opens when I start with debugger.

File Attachments

1) [Screenshot from 2021-08-04 23-51-00.png](#), downloaded 191 times

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Subject: Re: Cannot debug application on ubuntu linux

Posted by [alex-t](#) on Thu, 05 Aug 2021 08:51:21 GMT

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Seems gdb works from console.

I'm created program with 3 lines of source code, compiled clang++ -g ./TheMain.cpp

Then gdb ./a.out.

Output:

```
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 ./a.out...

(gdb) b main

Breakpoint 1 at 0x4011df: file ./TheMain.cpp, line 5.

(gdb) r

Starting program: /data/3/soft-devel/IDEs/cb/cb\_test/a.out

Breakpoint 1, main () at ./TheMain.cpp:5

5 std::cout << "Preved" << std::endl;

(gdb) s

Preved

6 std::cout << "Preved2" << std::endl;

(gdb) s

Preved2

7 return 0;

(gdb) s

\_\_libc\_start\_main (main=0x4011d0 <main()>, argc=1, argv=0x7fffffffda8, init=<optimized out>, fini=<optimized out>, rtld\_fini=<optimized out>, stack\_end=0x7fffffffdb8) at ../csu/libc-start.c:342

342 ../csu/libc-start.c: No such file or directory.

(gdb) s

\_\_GI\_exit (status=0) at exit.c:138

138 exit.c: No such file or directory.

(gdb) s

139 in exit.c

Seems after exiting my main some strange occurred - it tries to find files that not exists. But I can

debug my application itself.

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Subject: Re: Cannot debug application on ubuntu linux  
Posted by [alex-t](#) on Thu, 05 Aug 2021 08:55:51 GMT

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Hi mirek!

How I can see what happens when I start debug? What commands runs upp?

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Subject: Re: Cannot debug application on ubuntu linux  
Posted by [mirek](#) on Thu, 05 Aug 2021 09:15:18 GMT

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In setup menu, you can activate "Verbose" - you will then see the gdb communication.

'tail' is the name of your program (or it is system command)?

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Subject: Re: Cannot debug application on ubuntu linux  
Posted by [alex-t](#) on Thu, 05 Aug 2021 09:48:06 GMT

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Yes, tail is system command. But I don't understand how it is launched from theide when I trying to debug.

I activate Be Verbose checkbox. But I does not see any additional messages/logs.

May be I need to open some window or file? Where it write verbose logs?

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Subject: Re: Cannot debug application on ubuntu linux  
Posted by [mirek](#) on Thu, 05 Aug 2021 11:04:56 GMT

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alex-t wrote on Thu, 05 August 2021 11:48Yes, tail is system command. But I don't understand how it is launched from theide when I trying to debug.

I activate Be Verbose checkbox. But I does not see any additional messages/logs.

Should be visible in bottom pane when you choose the right subpane (the one under closing cross).

Quote:

May be I need to open some window or file? Where it write verbose logs?

It is used to create a terminal for console session.

[https://github.com/ultimatepp/ultimatepp/blob/1d018151f105f4e739045307577e3dd0bc8b856a/uppsrc/ide/Debuggers/Terminal.cpp #L24](https://github.com/ultimatepp/ultimatepp/blob/1d018151f105f4e739045307577e3dd0bc8b856a/uppsrc/ide/Debuggers/Terminal.cpp#L24)

Probably means your app is console one.

Can you try to debug something with GUI? E.g. examples/AddressBook

Mirek

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Subject: Re: Cannot debug application on ubuntu linux

Posted by [alex-t](#) on Thu, 05 Aug 2021 11:29:58 GMT

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Yes, my application is console application.

Debug in AddressBook works.

Later I read source code of Terminal.cpp, and if I understand what happens and what to do to make it working, I write message here.

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Subject: Re: Cannot debug application on ubuntu linux

Posted by [alex-t](#) on Thu, 05 Aug 2021 11:35:33 GMT

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mirek wrote on Thu, 05 August 2021 13:04

Should be visible in bottom pane when you choose the right subpane (the one under closing cross).

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This window appears when I debug GUI application, but only blinked and disappears in a tick when I'm trying to debug console application.

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Subject: Re: Cannot debug application on ubuntu linux

Posted by [mirek](#) on Thu, 05 Aug 2021 12:09:25 GMT

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alex-t wrote on Thu, 05 August 2021 13:35mirek wrote on Thu, 05 August 2021 13:04

Should be visible in bottom pane when you choose the right subpane (the one under closing cross).

This window appears when I debug GUI application, but only blinked and disappears in a tick when I'm trying to debug console application.

Ah, I see. That probably means gdb did not even started... But you can make it reappear (e.g. press Esc).

I guess the next step would be trying the complete gdb from terminal, with the -tty= option...

Mirek

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**Subject:** Re: Cannot debug application on ubuntu linux  
Posted by [alex-t](#) on Thu, 05 Aug 2021 12:35:20 GMT

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huh, after Esc it really appears again. Thank you, mirek, for this advice.

Now I can check logs of starting debugger. Seems it started, but not stopping on breakpoints.

Log:

```
-----  
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/10

```
/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

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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/ConsoleTest...

(gdb)

Time of `set prompt <u++dbg-q98klwr835f427>` 36.367 ms

===== Result:

GNU gdb (Ubuntu 9.2-0ubuntu1~20.04) 9.2

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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

/data/3/soft-devel/IDEs/upp/.cache/upp.out/MyApps/CLANG.Debug.Debug\_Full.Shared/ConsoleTest...

(gdb)

=====

Command: set disassembly-flavor intel

Time of `set disassembly-flavor intel` 20.787 ms

===== Result:

=====

Command: set exec-done-display off

Time of `set exec-done-display off` 20.762 ms

===== Result:

=====

Command: set annotate 1

Time of `set annotate 1` 20.787 ms

===== Result:

```
=====
```

Command: set height 0

Time of `set height 0` 20.758 ms

```
===== Result:
```

```
=====
```

Command: set width 0

Time of `set width 0` 20.742 ms

```
===== Result:
```

```
=====
```

Command: set confirm off

Time of `set confirm off` 20.74 ms

```
===== Result:
```

```
=====
```

Command: set print asm-demangle

Time of `set print asm-demangle` 20.795 ms

```
===== Result:
```

```
=====
```

Command: set print static-members off

Time of `set print static-members off` 20.74 ms

```
===== Result:
```

```
=====
```

Command: set print vtbl off

Time of `set print vtbl off` 20.748 ms

```
===== Result:
```

```
=====
```

Command: set print repeat 0

Time of `set print repeat 0` 20.785 ms

```
===== Result:
```

```
=====
```

Command: set print null-stop

Time of `set print null-stop` 20.755 ms

```
===== Result:
```

```
=====
Command: start
Temporary breakpoint 1 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 1, main (argc=1, argv=0x7fffffff988) 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` 201.981 ms
===== Result:
Temporary breakpoint 1 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 1, main (argc=1, argv=0x7fffffff988) 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 161372
/data/3/soft-devel/IDEs/upp/.cache/upp.out/MyApps/CLANG.Debug.Debug_Full.Shared/ConsoleT
est

Time of `info inferior` 20.801 ms
===== Result:
  Num  Description  Executable
* 1    process 161372
/data/3/soft-devel/IDEs/upp/.cache/upp.out/MyApps/CLANG.Debug.Debug_Full.Shared/ConsoleT
est

=====
Command: continue
Continuing.
[Inferior 1 (process 161372) exited normally]

Time of `continue` 20.746 ms
===== Result:
Continuing.
[Inferior 1 (process 161372) exited normally]

=====
Fast Command: frame
```

No stack.

Result: No stack.

---

---

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

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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

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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)

=====

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=0x7fffffff988) 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=0x7fffffff988) 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=0x7fffffff988) 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=0x7fffffff988) 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\*\*):

```
0x000000000004011d0 <+0>: push rbp
0x000000000004011d1 <+1>: mov rbp,rsp
0x000000000004011d4 <+4>: sub rsp,0x20
0x000000000004011d8 <+8>: mov DWORD PTR [rbp-0x4],0x0
0x000000000004011df <+15>: mov DWORD PTR [rbp-0x8],edi
0x000000000004011e2 <+18>: mov QWORD PTR [rbp-0x10],rsi
0x000000000004011e6 <+22>: movabs rdi,0x404080
0x000000000004011f0 <+32>: movabs rsi,0x402004
0x000000000004011fa <+42>: call 0x401050 <std::basic_ostream<char, std::char_traits<char>>& std::operator<< <std::char_traits<char>>(std::basic_ostream<char, std::char_traits<char>> its<char> &, char const*)@plt
0x000000000004011ff <+47>: mov rdi,rax
0x00000000000401202 <+50>: movabs rsi,0x401030
0x0000000000040120c <+60>: call 0x401060 <std::ostream::operator<<(std::ostream& (*)(std::ostream&))@plt>
=> 0x00000000000401211 <+65>: movabs rdi,0x404080
0x0000000000040121b <+75>: movabs rsi,0x402010
0x00000000000401225 <+85>: mov QWORD PTR [rbp-0x18],rax
0x00000000000401229 <+89>: call 0x401050 <std::basic_ostream<char, std::char_traits<char>>& std::operator<< <std::char_traits<char>>(std::basic_ostream<char, std::char_traits<char>> its<char> &, char const*)@plt
0x0000000000040122e <+94>: mov rdi,rax
0x00000000000401231 <+97>: movabs rsi,0x401030
0x0000000000040123b <+107>: call 0x401060 <std::ostream::operator<<(std::ostream& (*)(std::ostream&))@plt>
0x00000000000401240 <+112>: xor ecx,ecx
0x00000000000401242 <+114>: mov QWORD PTR [rbp-0x20],rax
0x00000000000401246 <+118>: mov eax,ecx
0x00000000000401248 <+120>: add rsp,0x20
0x0000000000040124c <+124>: pop rbp
0x0000000000040124d <+125>: ret
End of assembler dump.
```

Fast Command: frame

```
#0 main (argc=1, argv=0x7fffffff988) 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=0x7fffffff988) 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=0x7fffffff988) at ConsoleTest.cpp:6

Result: Id Target Id Frame  
\* 1 process 162236 "ConsoleTest" main (argc=1, argv=0x7fffffff988) 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 \*\*) 0x7fffffff988

Result: \$3 = (const char \*\*) 0x7fffffff988

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 434 times

---

Subject: Re: Cannot debug application on ubuntu linux  
Posted by [mirek](#) on Thu, 05 Aug 2021 20:53:53 GMT  
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alex-t wrote on Thu, 05 August 2021 14:50Hm... 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/ConsoleTest

Command: set prompt <u++dbg-q98klwr835f427>

GNU gdb (Ubuntu 9.2-0ubuntu1~20.04) 9.2

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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/ConsoleTest...

(gdb)

Time of `set prompt <u++dbg-q98klwr835f427>` 42.615 ms

===== Result:

GNU gdb (Ubuntu 9.2-0ubuntu1~20.04) 9.2

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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/ConsoleTest...

(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=0x7fffffff988) 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=0x7fffffff988) 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/ConsoleTest

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/ConsoleTest

=====

Command: continue

Continuing.

Breakpoint 1, main (argc=1, argv=0x7fffffff988) 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=0x7fffffff988) 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_traits<char> 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_traits<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=0x7fffffff988) 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=0x7fffffff988) 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=0x7fffffff988) at ConsoleTest.cpp:6

```
Result: Id Target Id           Frame
* 1 process 162236 "ConsoleTest" main (argc=1, argv=0x7fffffff988) 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 \*\*) 0x7fffffff988

Result: \$3 = (const char \*\*) 0x7fffffff988

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.

Well, it is sometimes unreliable (gdb?)

Mirek

---

---

Subject: Re: Cannot debug application on ubuntu linux

Posted by [alex-t](#) on Thu, 05 Aug 2021 21:54:20 GMT

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---

Gdb seems works fine. I don't know how to explain this behavior.

I look to Terminal.cpp, and see that before launch upp looks for consoles, and use first that it find. In my case it is konsole.

And seems no option to switch to another, like xterm.

I'm later try to switch to xterm and see what happens (by commenting other alternatives in src of upp and rebuilding upp).

---

---

Subject: Re: Cannot debug application on ubuntu linux

Posted by [alex-t](#) on Thu, 05 Aug 2021 22:02:19 GMT

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---

with xterm nothing changed, so problem in communication with gdb i think

---

---

Subject: Re: Cannot debug application on ubuntu linux

Posted by [mirek](#) on Sat, 07 Aug 2021 07:36:49 GMT

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---

What happens if you do

tail -f /dev/null

on commandline?

BTW, it is a long time since this workaround was introduced (and worked fine until now), but I think that the tail command is there just to make the terminal open or something, there probably should be some alternatives to it.

Mirek

---

---

Subject: Re: Cannot debug application on ubuntu linux

Posted by [alex-t](#) on Mon, 09 Aug 2021 10:08:23 GMT

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---

After

`tail -f /dev/null`

terminal waits for output, seems as freezed.

I not understanding for now this hack.

---