

GDB - Report

Resource

https://www.tutorialspoint.com/gnu_debugger/gdb_debugging_examples.htm

Description



Use to:

Use GDB to debug 2 example



Result:

Example 1

```
MINGW64:/c:/Users/nkhoi/Documents/Project/CodeSample_GDB/CodeSample_GDB
<http://www.gnu.org/software/gdb/bugs/>...
Reading symbols from C:\Users\nkhoi\Documents\Project\CodeSample_GDB\CodeSample_
GDB\Source.exe...done.
(gdb) C:\Users\nkhoi/.gdbinit:2318: Error in sourced command file:
Python scripting is not supported in this copy of GDB.
break /Full/path/to/Source.cpp:7
Make breakpoint pending on future shared library load? (y or [n]) [answered N; i
nput not from terminal]
(gdb) No source file named /Full/path/to/service.cpp.
b Source.cpp:7
Breakpoint 1 at 0x401476: file Source.cpp, line 7.
(gdb) info break
Num      Type           Disp Enb Address      What
1        breakpoint      keep y   0x00401476 in main() at Source.cpp:7
(gdb) run
Starting program: C:\Users\nkhoi\Documents\Project\CodeSample_GDB\CodeSample_GDB
\Source.exe
[New Thread 24140.0x51d0]
[New Thread 24140.0x5778]
[New Thread 24140.0x3d88]
[New Thread 24140.0x5598]

Breakpoint 1, main () at Source.cpp:7
7      int x = 5, y = 2;
(gdb) s
8      cout << divint(x, y);
(gdb) s
divint (a=5, b=2) at Source.cpp:18
18      return a / b;
(gdb) s
19  }
(gdb) s
_fu0____ZSt4cout () at Source.cpp:10
10      x =3; y = 0;
(gdb) s
11      cout << divint(x, y);
(gdb) s
divint (a=3, b=0) at Source.cpp:18
18      return a / b;
(gdb) s

Program received signal SIGFPE, Arithmetic exception.
0x004014ea in divint (a=3, b=0) at Source.cpp:18
18      return a / b;
(gdb) |
```

Error: File Source.cpp at line 18

→ Can't device to 0

Example 2

```
MINGW64/c:/Users/nkhoi/Documents/Project/CodeSample_GDB/CodeSample_GDB
and "show warranty" for details.
This GDB was configured as "mingw32".
For bug reporting instructions, please see:
<http://www.gnu.org/software/gdb/bugs/>...
Reading symbols from C:\Users\nkhoi\Documents\Project\CodeSample_GDB\CodeSample_GDB\a.exe...done.
(gdb) C:\Users\nkhoi/.gdbinit:2318: Error in sourced command file:
Python scripting is not supported in this copy of GDB.
info b
No breakpoints or watchpoints.
(gdb) b Source.cpp:7
Breakpoint 1 at 0x401476: file Source.cpp, line 7.
(gdb) info b
Num Type Disp Enb Address What
1 breakpoint keep y 0x00401476 in main() at Source.cpp:7
(gdb) run
Starting program: C:\Users\nkhoi\Documents\Project\CodeSample_GDB\CodeSample_GDB\a.exe
[New Thread 25048.0x5490]
[New Thread 25048.0x5864]
[New Thread 25048.0x5060]
[New Thread 25048.0x4ba4]

Breakpoint 1, main () at Source.cpp:8
8      setint(&a, 10);
(gdb) s
setint (ip=0x61ff08, i=10) at Source.cpp:20
20      *ip = i;
(gdb) s
21      }(gdb) s
main () at Source.cpp:9
9      cout << a << endl;
(gdb) p a
$1 = 10
(gdb) s
10
12      setint(b, 10);
(gdb) s
setint (ip=0x401a9b <__do_global_ctors+43>, i=10) at Source.cpp:20
20      *ip = i;
(gdb) s

Program received signal SIGSEGV, Segmentation fault.
0x004014fc in setint (ip=0x401a9b <__do_global_ctors+43>, i=10)
at Source.cpp:20
20      *ip = i;
(gdb) |
```

Error: File Source.cpp at line 20

→ Passing argument is wrong format



Important things:

N/A

