

Activities ebe Tue 09:20

File Edit Move View Font Help

Data

Name	Type	Value
globals		
stack	unsigned long * 400bf0	10000000c
main		

Registers

Register	Value
rax 0x0	rsi 0x60207c
rbx 0x0	rdi 0x1
rcx 0x7ffff77817a4	rbp 0x7fffffe0c0
rdx 0x0	rsp 0x7fffffe0c0
rip 0x400b48	eip 0x0

Terminal

```
Hello World!  
Hello World!  
Hello World!
```

Input Clear output

Console

```
0x7fffffe0d0: 0xb8 0xe1  
0xff 0xff 0xff 0x7f  
0x00 0x00  
0x7fffffe0d8: 0xa8 0xe1  
0xff 0xff 0xff 0x7f  
0x00 0x00  
0x7fffffe0e0: 0x00 0x00  
0x00 0x00 0x01 0x00  
0x00 0x00  
0x7fffffe0e8: 0xb0 0x0b  
0x40 0x00 0x00 0x00  
0x00 0x00  
0x7fffffe0f0: 0x00 0x00  
0x00 0x00 0x00 0x00  
0x00 0x00  
0x7fffffe0f8: 0xed 0x91  
0xcc 0x2c 0xd8 0x04  
0x57 0x40  
(gdb)  
frame 0  
#0 0x0000000000400bd8 in main ()  
(gdb)  
gdb command 
```

Command line

hello.asm hello.asm cse313/hello.s hello.asm cse313/hello.s hello.asm hello.s

```
1 segment .data  
2 msg: db 'Hello World!',0x0a  
3 len: equ $-msg  
4 x: dq 0  
5 y: dq 0  
6  
7 segment .text  
8 global main  
9 extern write, exit  
10 main:  
11 push rbp  
12 mov rbp, rsp  
13  
14 mov edx, len  
15 lea rsi, [msg]  
16 mov edi, 1  
17 call write  
18  
19 mov rax, [x]  
20 mov rdx, 0  
21 idiv qword [y]  
22 xor rax, rax  
23  
24  
25 xor edi, edi  
26 call exit
```

Error

Program received signal SIGFPE, Arithmetic exception.

OK

line 21, column 24