

GDB Use on ./hello

Name : Kevin Samuel Victor

Roll No. : 32

Code :

`gdb ./hello`

`break _start`

`run`

`set disassembly-flavor intel`

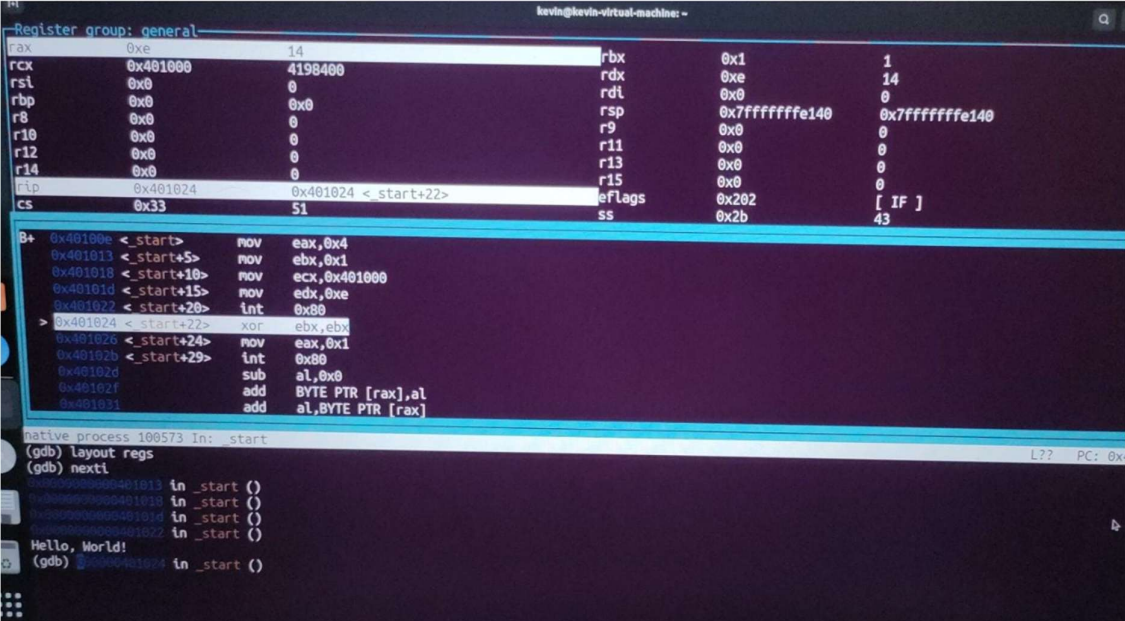
`disassemble _start`

`layout asm`

`layout regs`

`nexti`

Some outputs :



The screenshot shows a GDB terminal window with the following content:

```
Register group: general
rax      0xe      14      |rbx      0x1      1
rcx      0x401000 4198400 |rdx      0xe     14
rsi      0x0      0      |rdi      0x0     0
rbp      0x0      0x0     0      |rsp      0x7fffffff140 0x7fffffff140
r8       0x0      0      |r9       0x0     0
r10      0x0      0      |r11      0x0     0
r12      0x0      0      |r13      0x0     0
r14      0x0      0      |r15      0x0     0
rip      0x401024 0x401024 <_start+22> |eFlags   0x202   [ IF ]
cs       0x33     51      |ss       0x2b     43

0x40100e <_start>  mov     eax,0x4
0x401013 <_start+5>  mov     ebx,0x1
0x401018 <_start+10> mov     ecx,0x401000
0x40101d <_start+15> mov     edx,0xe
0x401022 <_start+20> int     0x80
> 0x401024 <_start+22> xor     ebx,ebx
0x401026 <_start+24> mov     eax,0x1
0x40102b <_start+29> int     0x80
0x40102d      sub     al,0x0
0x40102f      add     BYTE PTR [rax],al
0x401031      add     al,BYTE PTR [rax]

native process 100573 in: _start
(gdb) layout regs
(gdb) nexti
0x401013 in _start ()
0x401018 in _start ()
0x40101d in _start ()
0x401022 in _start ()
Hello, World!
(gdb) 0x401024 in _start ()
```

```
Register group: general
rax      0x1      1      rbx      0x0      0
rcx      0x401000  4198400  rdx      0xe      14
rsi      0x0      0      rdi      0x0      0
rbp      0x0      0x0      rsp      0x7fffffff140  0x7fffffff140
r8        0x0      0      r9        0x0      0
r10       0x0      0      r11       0x0      0
r12       0x0      0      r13       0x0      0
r14       0x0      0      r15       0x0      0
rip      0x40102b  0x40102b < start+29>  eflags    0x246    [ PF ZF IF ]
cs        0x33     51      ss        0x2b     43

[ No Assembly Available ]

native No process in:
(gdb) nextl
0x0000000000401013 in _start ()
0x0000000000401018 in _start ()
0x000000000040101d in _start ()
0x0000000000401022 in _start ()
Hello, World!
0x0000000000401026 in _start ()
0x000000000040102b in _start ()
[Inferior 1 (process 100573) exited normally]
The program is not being run.
The program is not being run.
(gdb)
```