

Assembly Explore

(gdb) **list 1,5**

```
1      main: .global main
2          pushq %rbp
3          movq  %rsp, %rbp
4          subq  $48, %rsp
5          movq  $0x0123456789ABCDEF, %rax
```

(gdb) **break *main**

Breakpoint 1 at 0x4004ed: file Assembly Explore.s, line 2.

(gdb) **display \$rsp**

(gdb) **display \$rbp**

(gdb) **run**

Starting program: Assembly Explore

Breakpoint 1, main () at Assembly Explore.s:2

```
2          pushq %rbp
2: $rbp = (void *) 0x0
1: $rsp = (void *) 0x7fffffff538
```

(gdb) **step**

```
2: $rbp = (void *) _____
1: $rsp = (void *) _____
```

(gdb) **x/1xg \$rsp**

0x[REDACTED]: _____

(gdb) **break 5**

Breakpoint 2 at 0x4004f5: file Assembly Explore.s, line 5.

(gdb) **continue**

Continuing.

Breakpoint 2, main () at Assembly Explore.s:5

```
5          movq  $0x0123456789ABCDEF, %rax
2: $rbp = (void *) _____
1: $rsp = (void *) _____
```