push rbp mov rbp,rsp

mov esi,6 mov edi,5 call AFunc add rsp,8



寄存器	
rax	
rbx	
rcx	
rdx	
rdi	
rsi	

PS: 执行语句之前的RBP在此栈空间的更高处

push rbp mov rbp,rsp mov esi,6 mov edi,5 call AFunc add rsp,8



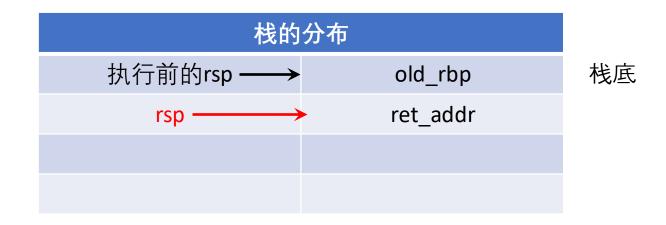
寄存器	
rsi	0x6

push rbp mov rbp,rsp mov esi,6 mov edi,5 call AFunc add rsp,8



寄存器		
rdi	0x5	
rsi	0x6	

```
push rbp
mov rbp,rsp
mov esi,6
mov edi,5
call AFunc
rdi:0x5 第一个参数
rsi:0x6 第二个参数
add rsp,8
```



```
AFunc
```

push rbp

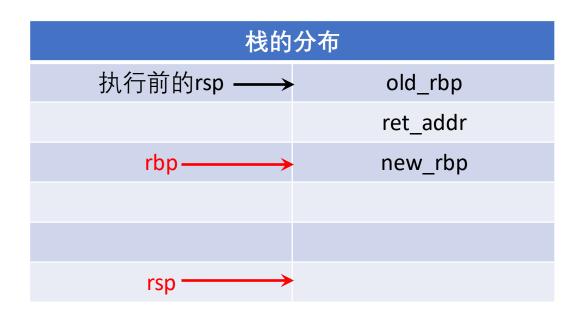
```
mov rbp,rsp
sub rsp,0x18
mov DWORD PTR [rbp-0x14],edi
mov DWORD PTR [rbp-0x18],esi
mov DWORD PTR [rbp-0x4],0x3
mov DWORD PTR [rbp-0x8],0x4
mov eax, DWORD PTR [rbp+0x14]
mov DWORD PTR [rbp-0x4],eax
mov eax, DWORD PTR [rbp - 0x18]
mov DWORD PTR [rbp-0x8],eax
    edx, DWORD PTR [rbp - 8]
    eax, DWORD PTR [rbp - 4]
mov
mov esi,edx
mov edi,eax
call BFunc
mov eax,8
leave
ret
```

栈的分布	
执行前的rsp ———	old_rbp
	ret_addr
rsp	new_rbp

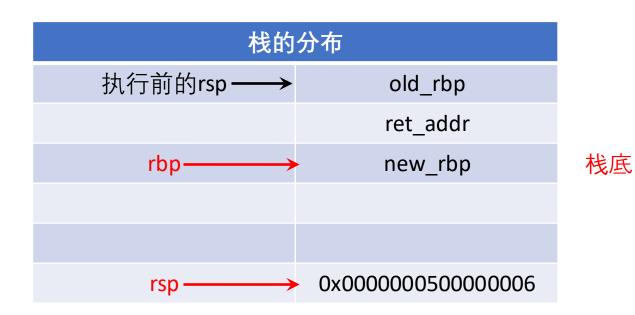
```
push rbp
mov rbp,rsp
sub rsp,0x18
mov DWORD PTR [rbp-0x14],edi
mov DWORD PTR [rbp-0x18],esi
mov DWORD PTR [rbp-0x4],0x3
mov DWORD PTR [rbp-0x8],0x4
mov eax, DWORD PTR [rbp+0x14]
mov DWORD PTR [rbp-0x4],eax
mov eax, DWORD PTR [rbp - 0x18]
mov DWORD PTR [rbp-0x8],eax
    edx, DWORD PTR [rbp - 8]
    eax, DWORD PTR [rbp - 4]
mov
mov esi,edx
mov edi,eax
call BFunc
mov eax,8
leave
ret
```



```
AFunc
push rbp
mov rbp,rsp
sub rsp,0x18
mov DWORD PTR [rbp-0x14],edi
mov DWORD PTR [rbp-0x18],esi
mov DWORD PTR [rbp-0x4],0x3
mov DWORD PTR [rbp-0x8],0x4
mov eax, DWORD PTR [rbp+0x14]
mov DWORD PTR [rbp-0x4],eax
mov eax, DWORD PTR [rbp - 0x18]
mov DWORD PTR [rbp-0x8],eax
     edx, DWORD PTR [rbp - 8]
    eax, DWORD PTR [rbp - 4]
mov
mov esi,edx
mov edi,eax
call BFunc
mov eax,8
leave
```



```
AFunc
push rbp
mov rbp,rsp
sub rsp,0x18
mov DWORD PTR [rbp-0x14],edi
mov DWORD PTR [rbp-0x18],esi
mov DWORD PTR [rbp-0x4],0x3
mov DWORD PTR [rbp-0x8],0x4
mov eax, DWORD PTR [rbp+0x14]
mov DWORD PTR [rbp-0x4],eax
mov eax, DWORD PTR [rbp - 0x18]
mov DWORD PTR [rbp-0x8],eax
mov edx, DWORD PTR [rbp - 8]
mov eax, DWORD PTR [rbp - 4]
mov esi,edx
mov edi,eax
call BFunc
mov eax,8
leave
```



pwndbg> x/dw \$rbp - 0x18
0x7ffdf3b28438: 6
pwndbg> x/dw \$rbp - 0x14
0x7ffdf3b2843c: 5

```
AFunc
push rbp
mov rbp,rsp
sub rsp,0x18
mov DWORD PTR [rbp-0x14],edi
mov DWORD PTR [rbp-0x18],esi
mov DWORD PTR [rbp-0x4],0x3
mov DWORD PTR [rbp-0x8],0x4
mov eax, DWORD PTR [rbp+0x14]
mov DWORD PTR [rbp-0x4],eax
mov eax, DWORD PTR [rbp - 0x18]
mov DWORD PTR [rbp-0x8],eax
mov edx, DWORD PTR [rbp - 8]
    eax, DWORD PTR [rbp - 4]
mov esi,edx
mov edi,eax
call BFunc
mov eax,8
leave
```



```
pwndbg> x/dw $rbp-4
0x7ffdf3b2844c: 3
pwndbg> x/dw $rbp-8
0x7ffdf3b28448: 4
```

ret

push rbp
mov rbp,rsp
sub rsp,0x18
mov DWORD PTR [rbp-0x14],edi
mov DWORD PTR [rbp-0x18],esi
mov DWORD PTR [rbp-0x4],0x3
mov DWORD PTR [rbp-0x8],0x4

mov eax, DWORD PTR [rbp+0x14]

mov DWORD PTR [rbp-0x4],eax
mov eax, DWORD PTR [rbp - 0x18]
mov DWORD PTR [rbp-0x8],eax
mov edx, DWORD PTR [rbp - 8]
mov eax, DWORD PTR [rbp - 4]
mov esi,edx
mov edi,eax
call BFunc
mov eax,8
leave

栈的分布	
执行前的rsp ——	old_rbp
	ret_addr
rbp	new_rbp
	0x0000000300000004
rsp	0x000000500000006

寄存器	
rax	0x5
rdi	0x5
rsi	0x6

ret

push rbp
mov rbp,rsp
sub rsp,0x18
mov DWORD PTR [rbp-0x14],edi
mov DWORD PTR [rbp-0x18],esi
mov DWORD PTR [rbp-0x4],0x3
mov DWORD PTR [rbp-0x8],0x4
mov eax, DWORD PTR [rbp+0x14]

mov DWORD PTR [rbp-0x4],eax

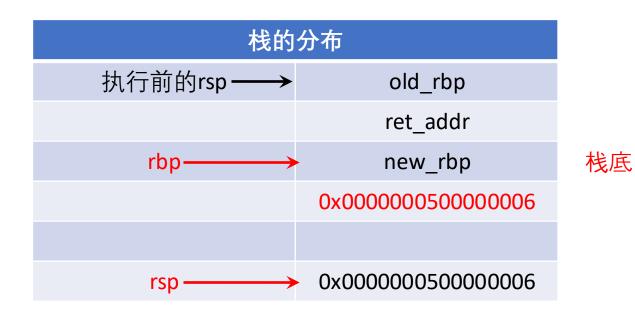
mov eax, DWORD PTR [rbp - 0x18]
mov DWORD PTR [rbp-0x8],eax
mov edx, DWORD PTR [rbp - 8]
mov eax, DWORD PTR [rbp - 4]
mov esi,edx
mov edi,eax
call BFunc
mov eax,8
leave

栈的分布	
执行前的rsp ——	old_rbp
	ret_addr
rbp	new_rbp
	0x000000500000004
rsp	0x0000000500000006

栈底

pwndbg> x/dw \$rbp-4
0x7ffdf3b2844c: 5

```
AFunc
push rbp
mov rbp,rsp
sub rsp,0x18
mov DWORD PTR [rbp-0x14],edi
mov DWORD PTR [rbp-0x18],esi
mov DWORD PTR [rbp-0x4],0x3
mov DWORD PTR [rbp-0x8],0x4
mov eax, DWORD PTR [rbp+0x14]
mov DWORD PTR [rbp-0x4],eax
mov eax, DWORD PTR [rbp - 0x18]
mov DWORD PTR [rbp-0x8],eax
     edx, DWORD PTR [rbp - 8]
mov
     eax, DWORD PTR [rbp - 4]
mov esi,edx
mov edi,eax
call BFunc
mov eax,8
leave
```



寄存器

pwndbg> x/dw \$rbp-8
0x7ffdf3b28448: 6

push rbp
mov rbp,rsp
sub rsp,0x18
mov DWORD PTR [rbp-0x14],edi
mov DWORD PTR [rbp-0x18],esi
mov DWORD PTR [rbp-0x4],0x3
mov DWORD PTR [rbp-0x8],0x4
mov eax, DWORD PTR [rbp+0x14]
mov DWORD PTR [rbp-0x4],eax
mov eax, DWORD PTR [rbp-0x4],eax
mov DWORD PTR [rbp-0x8],eax

mov edx, DWORD PTR [rbp - 8]

mov eax, DWORD PTR [rbp - 4]

mov esi,edx mov edi,eax call BFunc mov eax,8 leave

ret

栈的分布	
执行前的rsp ——	old_rbp
	ret_addr
rbp	new_rbp
	0x0000000500000006
rsp	0x000000500000006

寄存器	
rax	0x5
rdx	0x6
rdi	0x5
rsi	0x6

```
AFunc
```

push rbp mov rbp,rsp sub rsp,0x18 mov DWORD PTR [rbp-0x14],edi mov DWORD PTR [rbp-0x18],esi mov DWORD PTR [rbp-0x4],0x3 mov DWORD PTR [rbp-0x8],0x4 mov eax, DWORD PTR [rbp+0x14] mov DWORD PTR [rbp-0x4],eax eax, DWORD PTR [rbp - 0x18] mov DWORD PTR [rbp-0x8],eax edx, DWORD PTR [rbp - 8] mov eax, DWORD PTR [rbp - 4] mov

mov esi,edx

mov edi,eax

call BFunc mov eax,8 leave ret

栈的分布	
执行前的rsp ——)	old_rbp
	ret_addr
rbp	new_rbp
	0x0000000500000006
rsp	0x000000500000006

寄存器		
rax	0x5	
rdx	0x6	
rdi	0x5	
rsi	0x6	

```
AFunc
push rbp
mov rbp,rsp
sub rsp,0x18
mov DWORD PTR [rbp-0x14],edi
mov DWORD PTR [rbp-0x18],esi
mov DWORD PTR [rbp-0x4],0x3
mov DWORD PTR [rbp-0x8],0x4
mov eax, DWORD PTR [rbp+0x14]
mov DWORD PTR [rbp-0x4],eax
     eax, DWORD PTR [rbp - 0x18]
mov DWORD PTR [rbp-0x8],eax
     edx, DWORD PTR [rbp - 8]
mov
     eax, DWORD PTR [rbp - 4]
mov
mov esi,edx
mov edi,eax
call BFunc
    rdi:0x5
    rsi:0x6
mov eax,8
leave
ret
```

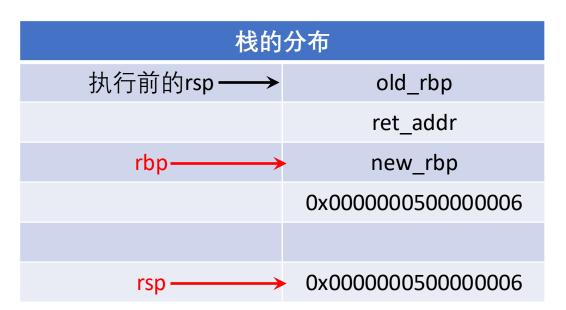
栈的分布	
执行前的rsp ——)	old_rbp
	ret_addr
rbp────	new_rbp
	0x0000000500000006
rsp	0x000000500000006

寄存器		
rax	0x5	
rbx		
rcx		
rdx	0x6	
rdi	0x5	
rsi	0x6	

push rbp mov rbp,rsp sub rsp,0x18 mov DWORD PTR [rbp-0x14],edi mov DWORD PTR [rbp-0x18],esi mov DWORD PTR [rbp-0x4],0x3 mov DWORD PTR [rbp-0x8],0x4 mov eax, DWORD PTR [rbp+0x14] mov DWORD PTR [rbp-0x4],eax eax, DWORD PTR [rbp - 0x18] mov DWORD PTR [rbp-0x8],eax edx, DWORD PTR [rbp - 8] mov eax, DWORD PTR [rbp - 4] mov mov esi,edx mov edi,eax call BFunc

mov eax,8

leave ret



寄存器		
rax	0x8	
rdx	0x6	
rdi	0x5	
rsi	0x6	

```
AFunc
push rbp
mov rbp,rsp
sub rsp,0x18
mov DWORD PTR [rbp-0x14],edi
mov DWORD PTR [rbp-0x18],esi
mov DWORD PTR [rbp-0x4],0x3
mov DWORD PTR [rbp-0x8],0x4
mov eax, DWORD PTR [rbp+0x14]
mov DWORD PTR [rbp-0x4],eax
mov eax, DWORD PTR [rbp - 0x18]
mov DWORD PTR [rbp-0x8],eax
mov edx, DWORD PTR [rbp - 8]
     eax, DWORD PTR [rbp - 4]
mov
mov esi,edx
mov edi,eax
call BFunc
mov eax,8
```

leave

ret

栈的分布		
rbp — 执行前的rsp ———	old_rbp	
rsp ———	ret_addr	
	new_rbp	

栈底

PS: leave 等效于mov rsp,rbp;pop rbp

AFunc push rbp mov rbp,rsp sub rsp,0x18 mov DWORD PTR [rbp-0x14],edi mov DWORD PTR [rbp-0x18],esi mov DWORD PTR [rbp-0x4],0x3 mov DWORD PTR [rbp-0x8],0x4 mov eax, DWORD PTR [rbp+0x14] mov DWORD PTR [rbp-0x4],eax eax, DWORD PTR [rbp - 0x18] mov DWORD PTR [rbp-0x8],eax edx, DWORD PTR [rbp - 8] mov eax, DWORD PTR [rbp - 4] mov mov esi,edx mov edi,eax call BFunc mov eax,8 leave ret

栈的分布		
rbp,rsp	old_rbp	
	ret_addr	
	new_rbp	