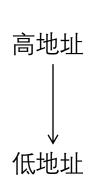
push rbp mov rbp,rsp

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

栈的分布		
执行前的rsp ——— old_rbp		

寄存器

rsi

0x6

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

栈的分布		
执行前的rsp ——	old_rbp	

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 nush rh

```
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
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
```

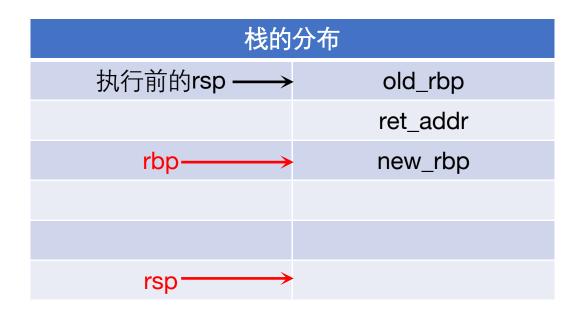
栈的分布	
执行前的rsp ———	old_rbp
	ret_addr
rsp	new_rbp

```
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
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, rsp ····	new_rbp

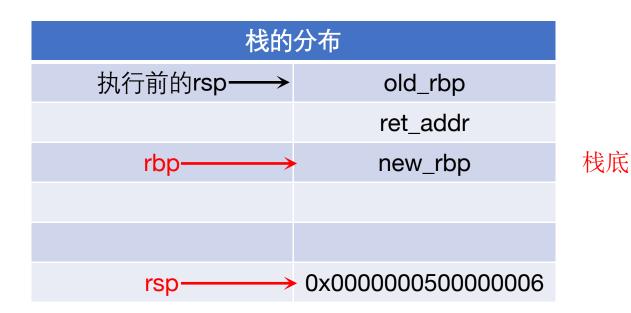
```
AFunc
push rbp
mov rbp,rsp
sub rsp,0x18
mov DWORD PTR [rbp-0x14],edi
mov DWORD PTR [rbp-0x18],esi
mov DWORD PTR [rbp-0x4],0x3
mov DWORD PTR [rbp-0x8],0x4
mov eax, DWORD PTR [rbp+0x14]
mov DWORD PTR [rbp-0x4],eax
     eax, DWORD PTR [rbp - 0x18]
mov
mov DWORD PTR [rbp-0x8],eax
     edx, DWORD PTR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

ret



```
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
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



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
     eax, DWORD PTR [rbp - 0x18]
mov
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	
执行前的rsp ····	old_rbp
	ret_addr
rbp	new_rbp
	0x000000300000004
rsp	0x0000000500000006

栈底

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

```
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]

leave

ret

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

栈的分布	
执行前的rsp ····	old_rbp
	ret_addr
rbp	new_rbp
	0x000000300000004
rsp	0x0000000500000006

寄存器		
rax 0x5		
rdi	0x5	
rsi	0x6	

AFunc

leave

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

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 eax, DWORD PTR [rbp mov 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



栈底

寄存器

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

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 mov DWORD PTR [rbp-0x8],eax edx, DWORD PTR [rbp mov 8] eax, DWORD PTR [rbp mov 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
	0x000000500000006
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 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
	0x000000500000006
rsp	0x0000000500000006

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
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
	0x000000500000006
rsp───	0x0000000500000006

寄存器		
rax	0x5	
rbx		
rcx		
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 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
	0x000000500000006
rsp	0x000000500000006

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 eax, DWORD PTR [rbp - 0x18] mov 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 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	