

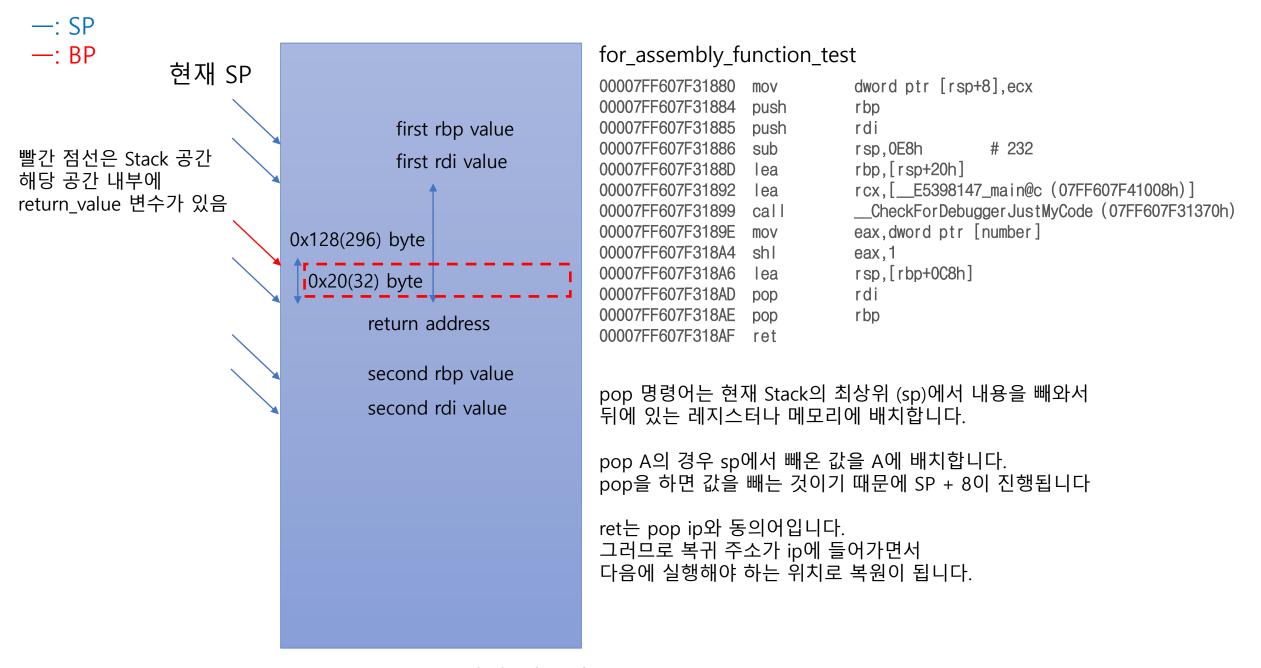
## main

push	rbp
push	rdi
sub	rsp,128h
lea	rbp,[rsp+20h]
lea	rcx,[E5398147_main@c (07FF607F41008h)]
call	CheckForDebuggerJustMyCode (07FF607F31370h)
mov	dword ptr [input_parameter],3
mov	ecx,dword ptr [input_parameter]
call	<pre>for_assembly_function_test (07FF607F311CCh)</pre>
mov	dword ptr [return_value],eax
	push sub lea lea call mov mov call

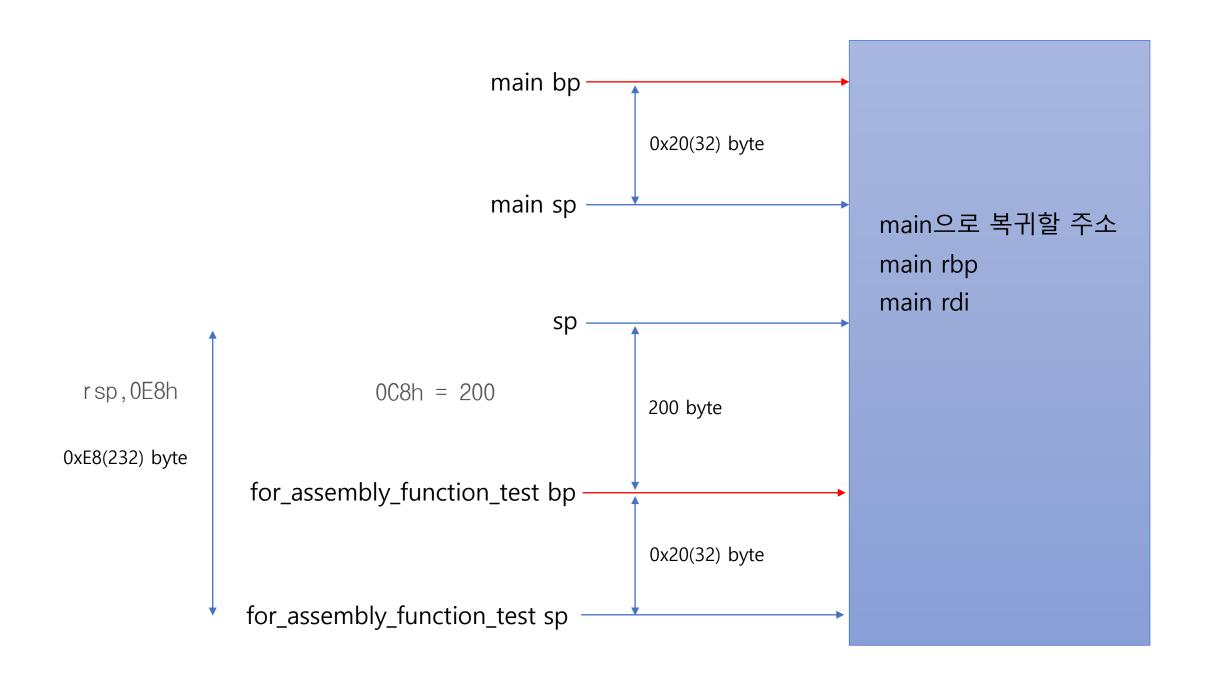
## for\_assembly\_function\_test

```
dword ptr [rsp+8],ecx
00007FF607F31880
00007FF607F31884
                  push
                              rbp
00007FF607F31885
                              rdi
                  push
00007FF607F31886
                              rsp,0E8h
00007FF607F3188D
                              rbp,[rsp+20h]
00007FF607F31892
                              rcx.[ E5398147 main@c (07FF607F41008h)]
00007FF607F31899
                  call
                               __CheckForDebuggerJustMyCode (07FF607F31370h)
00007FF607F3189E
                              eax, dword ptr [number]
00007FF607F318A4
                              eax,1
                              rsp,[rbp+0C8h]
00007FF607F318A6
00007FF607F318AD
                              rdi
                  pop
00007FF607F318AE
                              rbp
                  pop
00007FF607F318AF
                  ret
```

Virtual Memory (가상 메모리)



Virtual Memory (가상 메모리)



## 빗금 영역이 지역 변수 공간 0x10000 property = 00x0FFF8 rdi = 00x0FFF0 0x128(296) rbp 0x0FEE8 0x20(32) 1 number (입력) 0x0FEC8 복귀주소 0x0FEC0 0xC8(200) poly 2 = 0x0FEE80x0FEB8 rdi = 00x0FEB0 0xE8(232) 0x0FDC8

main

```
00007FF607F318C0
                  push
                               rbp
00007FF607F318C2
                  push
                               rdi
00007FF607F318C3
                  sub
                               rsp,128h
00007FF607F318CA
                               rbp.[rsp+20h]
00007FF607F318CF
                               rcx,[__E5398147_main@c (07FF607F41008h)]
00007FF607F318D6
                               __CheckForDebuggerJustMyCode (07FF607F31370h)
                  call
                               dword ptr [input_parameter],3
00007FF607F318DB
                              ecx.dword ptr [input_parameter]
00007FF607F318E2
                  mov
00007FF607F318E5
                               for assembly function test (07FF607F311CCh)
                  call
00007FF607F318EA
                               dword ptr [return_value].eax
                  mov
```

결론적으로 Window의 sub로 생성되는 영역 전체가 지역 변수로 활용된다 보는 것이 적합합니다.

## for\_assembly\_function\_test

```
00007FF607F31880
                               dword ptr [rsp+8].ecx
                  mov
00007FF607F31884
                  push
                               rbp
00007FF607F31885
                  push
                               rdi
00007FF607F31886
                               rsp,0E8h
                              rbp.[rsp+20h]
00007FF607F3188D
00007FF607F31892
                               rcx.[ E5398147 main@c (07FF607F41008h)]
00007FF607F31899
                               CheckForDebuggerJustMyCode (07FF607F31370h)
                  call
00007FF607F3189E
                               eax, dword ptr [number]
                  mov
00007FF607F318A4
                               eax,1
00007FF607F318A6
                               rsp,[rbp+0C8h]
00007FF607F318AD
                               rdi
                  gog
00007FF607F318AE
                               rbp
                  gog
00007FF607F318AF
                  ret
```

Virtual Memory (가상 메모리)