

Stage	Generic Call Dest	Specific call 0x041
Fetch	$icode : ifun \leftarrow M_1[PC]$ $valC \leftarrow M_8[PC + 1]$ $valP \leftarrow PC + 9$	$icode : ifun \leftarrow M_1[0x037] = 8 : 0$ $valC \leftarrow M_8[0x038] = 0x41$ $valP \leftarrow 0x037 + 9 = 0x040$
Decode	$valB \leftarrow R[\%rsp]$	$valB \leftarrow R[\%rsp] = 128$
Execute	$valE \leftarrow valB + (-8)$	$valE \leftarrow 128 + (-8) = 120$
Memory	$M_8[valE] \leftarrow valP$	$M_8[120] \leftarrow 0x040$
Write back	$R[\%rsp] \leftarrow valE$	$R[\%rsp] \leftarrow 120$
PC update	$PC \leftarrow valP$	$PC \leftarrow 0x041$

The effect of this instruction is to set `%rsp` to 120, to store 0x040 at this memory address, and to set the PC to 0x041 (the call target).