

**ANDWF****AND W with f**

Syntax: `[ label ] ANDWF f [,d [,a]]`

Operands:  $0 \leq f \leq 255$   
 $d \in [0,1]$   
 $a \in [0,1]$

Operation:  $(W) \text{ .AND. } (f) \rightarrow \text{dest}$

Status Affected: N,Z

Encoding:	0001	01da	ffff	ffff
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Description: The contents of W are AND'ed with register 'f'. If 'd' is 0, the result is stored in W. If 'd' is 1, the result is stored back in register 'f' (default). If 'a' is 0, the Access Bank will be selected. If 'a' is 1, the BSR will not be overridden (default).

Words: 1

Cycles: 1

Q Cycle Activity:

Q1	Q2	Q3	Q4
Decode	Read register 'f'	Process Data	Write to destination

Example: `ANDWF REG, 0, 0`

Before Instruction

W = 0x17  
 REG = 0xC2

After Instruction

W = 0x02  
 REG = 0xC2