

DECF

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DECF	Decrement f				
Syntax:	[<i>label</i>] DECF f [,d [,a]				
Operands:	$0 \leq f \leq 255$ $d \in [0,1]$ $a \in [0,1]$				
Operation:	$(f) - 1 \rightarrow \text{dest}$				
Status Affected:	C, DC, N, OV, Z				
Encoding:	<table><tr><td>0000</td><td>01da</td><td>ffff</td><td>ffff</td></tr></table>	0000	01da	ffff	ffff
0000	01da	ffff	ffff		
Description:	Decrement 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, overriding the BSR value. If 'a' = 1, then the bank will be selected as per the BSR value (default).				
Words:	1				
Cycles:	1				
Q Cycle Activity:					

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

Example: DECF CNT, 1, 0

Before Instruction

CNT = 0x01
Z = 0

After Instruction

CNT = 0x00
Z = 1

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