

RRCF**Rotate Right f through Carry**

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

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

Operation: $(f \langle n \rangle) \rightarrow \text{dest} \langle n-1 \rangle$,
 $(f \langle 0 \rangle) \rightarrow C$,
 $(C) \rightarrow \text{dest} \langle 7 \rangle$

Status Affected: C, N, Z

Encoding:

0011	00da	ffff	ffff
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Description: The contents of register 'f' are rotated one bit to the right through the Carry Flag. If 'd' is 0, the result is placed in W. If 'd' is 1, the result is placed back in register 'f' (default). If 'a' is 0, the Access Bank will be selected, overriding the BSR value. If 'a' is 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: `RRCF REG, 0, 0`

Before Instruction

REG = 1110 0110
 C = 0

After Instruction

REG	=	1110 0110
W	=	0111 0011
C	=	0

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