RETFIE

Return from Interrupt

Syntax: [label] RETFIE [s]

Operands: $s \in [0,1]$

Operation: $(TOS) \rightarrow PC$

1 → GIE/GIEH or PEIE/GIEL,

if s = 1

 $(WS) \rightarrow W$.

(STATUSS) → STATUS.

(BSRS) → BSR,

PCLATU, PCLATH are unchanged.

Status Affected: GIE/GIEH, PEIE/GIEL.

Encoding:

0000 0000 0001 000s

Description:

Return from Interrupt. Stack is popped and Top-of-Stack (TOS) is loaded into the PC. Interrupts are enabled by setting either the high or low priority global interrupt enable bit. If 's' = 1, the contents of

the shadow registers WS,

STATUSS and BSRS are loaded into their corresponding registers, W, STATUS and BSR. If 's' = 0, no update of these registers occurs

(default).

Words: 1

Cycles: 2

Q Cycle Activity:

Q1	Q2	Q3	Q4
Decode	No operation	No operation	pop PC from stack Set GIEH or GIEL
No operation	No operation	No operation	No operation

Example: RETFIE 1

After Interrupt

GIE/GIEH, PEIE/GIEL = 1

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