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Bit Toggle f

Syntax: [label] BTG f,b[,a]

Operands: $0 \le f \le 255$

 $0 \le b \le 7$
a \in [0,1]

Operation: $(\overline{f < b >}) \rightarrow f < b >$

Status Affected: None

Encoding: 0111 bbba ffff ffff

Description: Bit 'b' in data memory location 'f' is

inverted. If 'a' is 0, the Access Bank will be selected, overriding the BSR value. If 'a' = 1, then the bank will be selected as par the BSR value.

selected as per the BSR value

(default).

Words: 1

Cycles:

Q Cycle Activity:

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

Example: BTG PORTC, 4, 0

1

Before Instruction:

PORTC = 0111 0101 [0x75]

After Instruction:

PORTC = 0110 0101 [0x65]

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