TSTFSZ

Test f, skip if 0

Syntax:

[label] TSTFSZ f[,a]

Operands:

 $0 \le f \le 255$

 $a \in [0,1]$

Operation:

skip if f = 0

Status Affected:

None

Encoding:

0110 011a ffff ffff

Description:

If 'f' = 0, the next instruction,

fetched during the current instruction execution, is discarded and a NOP is executed, making this a twocycle instruction. 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(2)

Note: 3 cycles if skip and followed

by a 2-word instruction.

Q Cycle Activity:

Q1	Q2	Q3	Q4
Decode	Read	Process	No
	register 'f'	Data	operation

If skip:

Q1	Q2	Q3	Q4
No operation	No	No	No
	operation	operation	operation

If skip and followed by 2-word instruction:

Q1	Q2	Q3	Q4
No operation	No operation	No operation	No operation
No operation	No operation	No operation	No operation

Example: HERE TSTFSZ CNT, 1

NZERO :

Before Instruction

PC = Address (HERE)

After Instruction

If CNT = 0x00,

PC = Address (ZERO)

If CNT \neq 0x00,

PC = Address (NZERO)

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