INI	^	EC	7
11.4	v	FS	4

Increment f, skip if 0

Syntax: [label] INCFSZ f [,d [,a]

Operands: $0 \le f \le 255$

 $d \in [0,1]$ $a \in [0,1]$

Operation: $(f) + 1 \rightarrow dest$,

skip if result = 0

Status Affected: None

Encoding: 0011 11da ffff ffff

Description: The contents of register 'f' are

incremented. If 'd' is 0, the result is placed in W. If 'd' is 1, the result is placed back in register 'f'. (default) If the result is 0, the next instruction, which is already fetched, is discarded, and a NOP is executed instead, making it a two-cycle instruction. 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(2)

Note: 3 cycles if skip and followed

by a 2-word instruction.

Q Cycle Activity:

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

If skip:

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

II akip and lonowed by 2-word mandonon.

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

Example: HERE INCFSZ CNT, 1, 0

NZERO :

Before Instruction

PC = Address (HERE)

After Instruction

CNT = CNT + 1If CNT = 0;

PC = Address (ZERO)

If CNT \neq 0;

PC = Address (NZERO)

< Previous instruction: <u>INCF</u> | Instruction <u>index</u> | Next instruction: <u>INFSNZ</u> >