Deli el le	DCFSNZ	Decrement f, sk	ip if not 0
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Syntax: [label] DCFSNZ 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: 0100 11da ffff ffff

Description: The contents of register 'f' are dec-

remented. 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 not 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

n only and rollowed by 2-word morradion.

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

Example: HERE DCFSNZ TEMP, 1, 0

ZERO : NZERO :

Before Instruction

TEMP = ?

After Instruction

TEMP = TEMP - 1,

If TEMP = 0;

PC = Address (ZERO)

If TEMP \neq 0;

PC = Address (NZERO)

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