

CPFSEQ

< Previous instruction: [COME](#) | Instruction [index](#) | Next instruction: [CPFSGT](#) >

CPFSEQ Compare f with W, skip if f = W

Syntax: [*label*] CPFSEQ f [,a]

Operands: $0 \leq f \leq 255$
 $a \in [0,1]$

Operation: $(f) - (W)$,
 skip if $(f) = (W)$
 (unsigned comparison)

Status Affected: None

Encoding:

0110	001a	ffff	ffff
------	------	------	------

Description: Compares the contents of data memory location 'f' to the contents of W by performing an unsigned subtraction.
 If 'f' = W, then the fetched instruction is discarded and a NOP is executed instead, making this 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 register 'f'	Process Data	No operation

If skip:

Q1	Q2	Q3	Q4
No operation	No operation	No operation	No 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      CPFSEQ REG, 0
NEQUAL    :
EQUAL     :
```

Before Instruction

```

PC Address = HERE
W          = ?
REG        = ?
```

After Instruction

If REG	=	W;
PC	=	Address (EQUAL)
If REG	≠	W;
PC	=	Address (NEQUAL)

< Previous instruction: [COME](#) | Instruction [index](#) | Next instruction: [CPFSGT](#) >