

CPFSGT**Compare f with W, skip if f > W**Syntax: [*label*] CPFSGT 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	010a	ffff	ffff
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Description: Compares the contents of data memory location 'f' to the contents of the W by performing an unsigned subtraction. If the contents of 'f' are greater than the contents of WREG, 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      CPFSGT REG, 0
NGREATER  :
GREATER   :
```

Before Instruction

```
PC      = Address (HERE)
W       = ?
```

After Instruction

```
If REG > W;
    PC = Address (GREATER)
If REG ≤ W;
    PC = Address (NGREATER)
```

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