

Bitwise Operators

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1 Bitwise Operators

- Bitwise operators act on numbers at the bit level
- There are Four bitwise logical operators
 - Exclusive OR (*XOR*)
 - * Usage:
 - *XOR* register1, register2
 - *XOR* register, constant
 - * If bit i of register2 = 1, then flip bit i of register1
 - NOT
 - * Usage:
 - *NOT* register
 - * Flips every bit of register
 - OR
 - * Usage:
 - *OR* register1, register2
 - *OR* register, constant
 - * For every bit i of register2 = 1, then bit i of register1 = 1
 - AND
 - * Usage:
 - *AND* register1, register2
 - *AND* register, constant
 - * For every bit i of register2 = 0, set bit i of register1 = 0