CplusPlusBitTwiddlingTutorials

<http://stackoverflow.com/questions/141525/absolute-beginners-guide-to-bit-shifting>

<http://msdn.microsoft.com/en-us/library/336xbhcz.aspx>

<http://stackoverflow.com/questions/2547789/shift-operators-in-c>

<http://easycplusplus.com/tips/advcpp14h.html>

bitwise Operators ([www.cplusplus.com](http://www.cplusplus.com))

**Bitwise operators ( &, |, ^, ~, <<, >> )**

Bitwise operators modify variables considering the bit patterns that represent the values they store.

|  |  |  |
| --- | --- | --- |
| **operator** | **asm equivalent** | **description** |
| & | AND | Bitwise AND |
| | | OR | Bitwise inclusive OR |
| ^ | XOR | Bitwise exclusive OR |
| ~ | NOT | Unary complement (bit inversion) |
| << | SHL | Shift bits left |
| >> | SHR | Shift bits right |