

**BitXor** Obtain bitwise XOR of two 32-bit longs

#include <ToolUtils.h>

**Toolbox Utilities**

```
long      BitXor(op1, op2 );  
long      op1 ;          32-bit values . . .  
long      op2 ;          . . . to be XORed  
          returns      result of (op1 ^ op2 )
```

**BitXor** returns the exclusive OR (a bitwise XOR) of two 32-bit values. The operands are not changed.

*op1* and . . .  
*op2* are 32-bit long operands.

**Returns:** a long integer; the result of (*op1* ^ *op2* ).

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Notes: A bit in the result is set to 1 when bits of *op1* and *op2* contain opposite values; other bits are cleared. Alternative explanation: the bits of *op2* "toggle" the bits of *op1* .

This capability is native to the CPU and can be performed much faster using the C ^ (bitwise XOR) operator.

```
long    x, op1, op2;  
  
x = BitXor( op1, op2);    /* is equivalent to . . . */  
x = op1 ^ op2; /* . . . and this is MUCH faster */
```