LoWord Obtain least-significant 16 bits of 32-bit operand

#include <ToolUtils.h> **Toolbox Utilities**

```
short       LoWord(theLong);
long        theLong ;       32-bit source operand
            returns         the low-order 16 bits of theLong
```

This returns the low-order 16-bit word of a 32-bit long value.

theLong is any 32-bit value. It is treated as an unsigned.

Returns: a 16-bit integer; it is the low-word of *theLong* (i.e., the same value as (*theLong* **&** 0x0000FFFF).

Notes: This function is equivalent to the faster, but less self-documenting:

```
short   theInt;
long    theLong;

theInt = theLong & 0xFFFF;
```

If you use this function often, you may wish to create a fast macro; e.g.:

```
#define LoWord(x) ( (unsigned long)x &0xFFFF )
```

LoWord and **HiWord** are handy in manipulating the 32-bit Fixed data type. The high word is the integer portion and the low word is the fractional part.