HiWord Obtain most-significant 16 bits of 32-bit operand

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

```
short     HiWord(theLong);
long      theLong;      32-bit source operand
          returns       high-order 16 bits of theLong
```

HiWord returns the high-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; the high word of *theLong* ; i.e., the same value as (((unsigned long)*theLong* & 0xFFFF0000) >> 16).

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

```
short   theInt;
long    theLong;

theInt = (theLong  >> 16 ) & 0xFFFF;
```

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

```
#define HiWord(x) ( (unsigned long)x>>16 )
```

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.