

NAME

_TIFFauxiliary – auxiliary functions

SYNOPSIS

```
#include <tiffio.h>

uint32_t _TIFFClampDoubleToUInt32(double val)
uint32_t _TIFFMultiply32(TIFF *tif, uint32_t first, uint32_t second, const char *where)
uint64_t _TIFFMultiply64(TIFF *tif, uint64_t first, uint64_t second, const char *where)
```

DESCRIPTION

_TIFFClampDoubleToUInt32() clamps double values into the range of **uint32_t** (i.e. 0 .. 0xFFFFFFFF)

_TIFFMultiply32() and *_TIFFMultiply64()* checks for an integer overflow of the multiplication result and return the multiplication result or 0 if an overflow would happen. The string *where* is printed in the error message in case an overflow happens and can be used to indicate where the function was called.

SEE ALSO

libtiff (3tiff),

AUTHOR

LibTIFF contributors

COPYRIGHT

1988-2025, LibTIFF contributors