# SWAB

[NAME](#gjdgxs)

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## NAME

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|  | TIFFGetBitRevTable, TIFFReverseBits, TIFFSwabShort, TIFFSwabLong, TIFFSwabArrayOfShort, TIFFSwabArrayOfLong − byte- and bit-swapping routines |

## SYNOPSIS

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|  | **#include <tiffio.h>**  **const unsigned char\* TIFFGetBitRevTable(int** *reversed***)**  **void TIFFReverseBits(u\_char \****data***, unsigned long** *nbytes***)**  **void TIFFSwabShort(uint16 \****data***)**  **void TIFFSwabLong(uint32 \****data***)**  **void TIFFSwabArrayOfShort(uint16 \****data***, unsigned long** *nshorts***)**  **void TIFFSwabArrayOfLong(uint32 \****data***, unsigned long** *nlongs***)** |

## DESCRIPTION

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|  | The following routines are used by the library to swap 16- and 32-bit data and to reverse the order of bits in bytes.  *TIFFSwabShort* and *TIFFSwabLong* swap the bytes in a single 16-bit and 32-bit item, respectively. *TIFFSwabArrayOfShort* and *TIFFSwabArrayOfLong* swap the bytes in an array of 16-bit and 32-bit items, respectively.  *TIFFReverseBits* replaces each byte in *data* with the equivalent bit-reversed value. This operation is performed with a lookup table, which is returned using the *TIFFGetBitRevTable* function. *reversed* parameter specifies which table should be returned. Supply *1* if you want bit reversal table. Supply *0* to get the table that do not reverse bit values. It is a lookup table that can be used as an *identity function*; i.e. *TIFFNoBitRevTable[n] == n*. |

## DIAGNOSTICS

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|  | None. |

## SEE ALSO

|  |  |
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|  | **libtiff**(3TIFF)  Libtiff library home page: **http://www.simplesystems.org/libtiff/** |