TIFFReadTile(3TIFF)
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#### **NAME**

TIFFReadTile - read and decode a tile of data from an open TIFF file

### **SYNOPSIS**

#include <tiffio.h>

tsize\_t TIFFReadTile(TIFF \*tif, tdata\_t buf, uint32\_t x, uint32\_t y, uint32\_t z, tsample\_t sample)

# **DESCRIPTION**

Return the data for the tile *containing* the specified coordinates. The data placed in *buf* are returned decompressed and, typically, in the native byte- and bit-ordering, but are otherwise packed (see further below). The buffer must be large enough to hold an entire tile of data. Applications should call the routine *TIFFTileSize* to find out the size (in bytes) of a tile buffer. The *x* and *y* parameters are always used by *TIFFReadTile*. The *z* parameter is used if the image is deeper than 1 slice (*ImageDepth>*1). The *sample* parameter is used only if data are organized in separate planes (*PlanarConfiguration=*2).

### **NOTES**

The library attempts to hide bit- and byte-ordering differences between the image and the native machine by converting data to the native machine order. Bit reversal is done if the *FillOrder* tag is opposite to the native machine bit order. 16- and 32-bit samples are automatically byte-swapped if the file was written with a byte order opposite to the native machine byte order,

## RETURN VALUES

*TIFFReadTile* returns -1 if it detects an error; otherwise the number of bytes in the decoded tile is returned.

### **DIAGNOSTICS**

All error messages are directed to the **TIFFError**(3TIFF) routine.

## **SEE ALSO**

TIFFCheckTile(3TIFF), TIFFComputeTile(3TIFF), TIFFOpen(3TIFF), TIFFReadEncodedTile(3TIFF), TIFFReadRawTile(3TIFF), libtiff(3TIFF)

Libtiff library home page: http://www.simplesystems.org/libtiff/