# TIFFTILE

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## NAME

|  |  |
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|  | TIFFTileSize, TIFFTileRowSize, TIFFVTileSize, TIFFDefaultTileSize, TIFFComputeTile, TIFFCheckTile, TIFFNumberOfTiles − tile-related utility routines |

## SYNOPSIS

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|  | **#include <tiffio.h>**  **void TIFFDefaultTileSize(TIFF \****tif***, uint32 \****tw***, uint32 \****th***)**  **tsize\_t TIFFTileSize(TIFF \****tif***)**  **tsize\_t TIFFTileRowSize(TIFF \****tif***)**  **tsize\_t TIFFVTileSize(TIFF \****tif***, uint32** *nrows***)**  **ttile\_t TIFFComputeTile(TIFF \****tif***, uint32** *x***, uint32** *y***, uint32** *z***, tsample\_t** *sample***)**  **int TIFFCheckTile(TIFF \****tif***, uint32** *x***, uint32** *y***, uint32** *z***, tsample\_t** *sample***)**  **ttile\_t TIFFNumberOfTiles(TIFF \****tif***)** |

## DESCRIPTION

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|  | *TIFFDefaultTileSize* returns the pixel width and height of a reasonable-sized tile; suitable for setting up the *TileWidth* and *TileLength* tags. If the *tw* and *th* values passed in are non-zero, then they are adjusted to reflect any compression-specific requirements. The returned width and height are constrained to be a multiple of 16 pixels to conform with the TIFF specification.  *TIFFTileSize* returns the equivalent size for a tile of data as it would be returned in a call to *TIFFReadTile* or as it would be expected in a call to *TIFFWriteTile*.  *TIFFVTileSize* returns the number of bytes in a row-aligned tile with *nrows* of data.  *TIFFTileRowSize* returns the number of bytes of a row of data in a tile.  *TIFFComputeTile* returns the tile that contains the specified coordinates. A valid tile is always returned; out-of-range coordinate values are clamped to the bounds of the image. The *x* and *y* parameters are always used in calculating a tile. 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).  *TIFFCheckTile* returns a non-zero value if the supplied coordinates are within the bounds of the image and zero otherwise. The *x* parameter is checked against the value of the *ImageWidth* tag. The *y* parameter is checked against the value of the *ImageLength* tag. The *z* parameter is checked against the value of the *ImageDepth* tag (if defined). The *sample* parameter is checked against the value of the *SamplesPerPixel* parameter if the data are organized in separate planes.  *TIFFNumberOfTiles* returns the number of tiles in the image. |

## DIAGNOSTICS

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|  | None. |

## SEE ALSO

|  |  |
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|  | **TIFFReadEncodedTile**(3TIFF), **TIFFReadRawTile**(3TIFF), **TIFFReadTile**(3TIFF), **TIFFWriteEncodedTile**(3TIFF), **TIFFWriteRawTile**(3TIFF), **TIFFWriteTile**(3TIFF), **libtiff**(3TIFF)  Libtiff library home page: **http://www.simplesystems.org/libtiff/** |