NAME

tiffmedian - apply the median cut algorithm to data in a TIFF file

SYNOPSIS

tiffmedian [*options*] *input.tif output.tif*

DESCRIPTION

tiffmedian applies the median cut algorithm to an RGB image in *input.tif* to generate a palette image that is written to *output.tif*. The generated colormap has, by default, 256 entries. The image data is quantized by mapping each pixel to the closest color values in the colormap.

OPTIONS

-c   Specify the compression to use for data written to the output file: **none** for no compression, **packbits** for PackBits compression, **lzw** for Lempel-Ziv & Welch compression, and **zip** for Deflate compression. By default *tiffmedian* will compress data according to the value of the *Compression* tag found in the source file.

LZW compression can be specified together with a *predictor* value. A predictor value of 2 causes each scanline of the output image to undergo horizontal differencing before it is encoded; a value of 1 forces each scanline to be encoded without differencing. LZW-specific options are specified by appending a ''. ''-separated list to the ''lzw'' option; e.g. **-c lzw:2** for LZW compression with horizontal differencing.

-C   Specify the number of entries to use in the generated colormap. By default all 256 entries/colors are used.

-f   Apply Floyd-Steinberg dithering before selecting a colormap entry.

-r   Specify the number of rows (scanlines) in each strip of data written to the output file. By default, *tiffmedian* attempts to set the rows/strip that no more than 8 kilobytes of data appear in a strip.

NOTES

This program is derived from Paul Heckbert's *median* program.

SEE ALSO

pal2rgb(1), **tiffinfo**(1), **tiffcp**(1), **tiffcmp**(1), **libtiff**(3TIFF)

Color Image Quantization for Frame Buffer Display, Paul Heckbert, SIGGRAPH proceedings, 1982, pp. 297-307.

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