

**NAME**

ras2xbm – convert gpsras bitmap images to XBM format

**SYNOPSIS**

**ras2xbm** [**-rot** deg] [**-inv** n] rasfile

**DESCRIPTION**

*Ras2xbm* converts the *gpsras* format bitmap image in the given *rasfile* (as produced by *sdump* or *hpgl2ras*) into an XBM format bitmap image. The XBM image is sent to the standard output. If no *rasfile* argument is given, the standard input is read. The *gpsras* image must be a 1 bit/pixel bitmap. No output is generated if the input cannot be read, or is of the wrong format. The XBM format is usable by other X Window applications, and can easily be converted to a number of common image file formats using an application such as the *xv* image viewer, or *xbmtopbm*(1) and other utilities in the **netpbm** package.

If the **-rot** option is given, the image is rotated by the specified number of degrees, rounded to the closest 90 degree increment.

If the **-inv** option is given with an *n* of **0**, then *ras2xbm* will invert the bits of the image. This is reverse of what you'd expect, but that's because the bits of an XBM image are normally the reverse of what they are in a *gpsras* image. The *gpsras* format treats 1 as white, while the XBM format treats 0 as white. So, "**-inv 0**" suppresses reverse video.

The order of bits in each byte is always reversed, as *gpsras* format uses the most significant bit first, while XBM uses the least significant bit first.

**SEE ALSO**

*sdump*(1), *emuhpgl*(1), *gpsras*(5), *xbmtopbm*(1)