

**NAME**

`sgi2fax` – convert a Silicon Graphics image file for facsimile transmission

**SYNOPSIS**

`/usr/local/sbin/sgi2fax [ options ] files...`

**DESCRIPTION**

`sgi2fax` converts Silicon Graphics format images to bilevel TIFF Class F images in preparation for transmission as facsimile. `sgi2fax` is not normally invoked directly; it is usually run by `sendfax(1)` when an SGI image file is submitted for transmission.

Images are converted by scaling them to fill the guaranteed reproducible area on a default page. Each RGB pixel  $p$  is converted to greyscale according to:

$$p_r * \%r + p_g * \%g + p_b * \%b$$

where  $\%r$ ,  $\%g$ , and  $\%b$  default to 30, 59, and 11, respectively. Greyscale images are then process with a high pass filter and dithered to a bilevel image. The resultant image are written as a TIFF Class F document.

By default, the output image is created with 204 dots/inch horizontal resolution and 98 lines/inch vertical resolution. The image is written as Group 3 1D-encoded data.

**OPTIONS**

- 1**      (**-2**) Write the image as Group 3 1D- (2D-) encoded data.
- b %b**    Set the  $\%b$  parameter used to convert color pixel values to greyscale pixel values.
- g %g**    Set the  $\%g$  parameter used to convert color pixel values to greyscale pixel values.
- l**      Generate an image at 98 lines/inch vertical resolution. know as *low resolution*.
- m**      Generate an image at 196 lines/inch vertical resolution.
- o file**    Write output to *file* instead of the default file named **sgi.fax**.
- r %r**    Set the  $\%r$  parameter used to convert color pixel values to greyscale pixel values.
- s size**    Set the output size according to the named page size. Images are normally created with a system-default page size (usually letter-size pages, 8.5" by 11", for sites in North America). Alternate page sizes are specified symbolically using either the name or abbreviation of an entry in the `pagesizes(5F)` database; e.g. *a3* (ISO A3), *a4* (ISO A4), *a5* (ISO A5), *a6* (ISO A6), *b4* (ISO B4), *na-let* (North American Letter), *us-leg* (American Legal), *us-led* (American Ledger), *us-exe* (American Executive), *jp-let* (Japanese Letter), and *jp-leg* (Japanese Legal). Comparisons are case-insensitive and any match of a substring of the full page-size name is sufficient; e.g. "legal" would match "American Legal".

**FILES**

`/usr/local/lib/fax/pagesizes` page size database

**SEE ALSO**

`hylafax-client(1)`, `sendfax(1)`, `hylafax-server(5F)`