*a long term geodynamics simulation platform*

Libjpeg Download and Installation

* [**What is libjpeg and do I need to install it?**](http://www.underworldproject.org/documentation/LibjpegDownload.html#What_is_libjpeg_and_do_I_need_to)
* [**Downloading and Installing libjpeg using Fink (mac only)**](http://www.underworldproject.org/documentation/LibjpegDownload.html#Downloading_and_Installing_libjp)
* [**Downloading and Installing libjpeg Manually**](http://www.underworldproject.org/documentation/LibjpegDownload.html#Downloading_and_Installing_libjp)
* [**Setting up Environment Variables Manually**](http://www.underworldproject.org/documentation/LibjpegDownload.html#Setting_up_Environment_Variables)

What is libjpeg and do I need to install it?

libjpeg is used by gLucifer for image output in jpeg format. **Mac** users can download and install libjpeg either using Fink or manually (see below).

However png is the default format, which requires **[libpng](http://www.underworldproject.org/documentation/LibpngDownload.html)**.

Further information on libjpeg is available at [**http://en.wikipedia.org/wiki/Jpeg**](http://en.wikipedia.org/wiki/Jpeg)

Downloading and Installing libjpeg using Fink (mac only)

Type the following (from any directory, assuming you have Fink in your path):

fink install libjpeg libjpeg-shlibs

This will install in the /sw/ directory, hence there should not be any need to set up environment variables.

Downloading and Installing libjpeg Manually

These instructions apply to any Linux, Unix or Mac operating system.

**1.** The latest source archive for libjpeg can be downloaded from [**http://www.ijg.org/**](http://www.ijg.org/) (ftp site). Look for a file like jpegsrc.v6b.tar.gz

**2.** Once downloaded, unzip the file which will decompress the file into its own directory:

tar zxvf jpegsrc.v6b.tar.gz

If you require multiple users to have access to it, install it in a place like /usr/local, for which superuser or administrator access may be required.

**3.** Navigate into the libjpeg directory:

cd jpegsrc.v6b/

and then configure and install it into a suitable directory, for example:

./configure --prefix=/usr/local

and then type (root or administrator access may be required; on macs type "sudo make install" in place of the "make install" step):

make

make install

Setting up Environment Variables Manually

Add the following environment variable to your ~/.bashrc (if you are using bash) or ~/.tcshrc (if you are using tcsh), where /usr/local is the directory in which you installed libjpeg:

bash:

export JPEG\_DIR=/usr/local

tcsh:

setenv JPEG\_DIR /usr/local

The next time you configure Underworld, gLucifer will know where libjpeg is.

-- Wendy Mason - 25 Jan 2006

[users@underworldproject.org](mailto:users@underworldproject.org)