

MFOLD_UTIL 3.1 Installation Guide

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What You Need to Get Started

Following open source programs and libraries are required to compile

MFOLD_UTIL programs:

- [XFree86](#)
- [glut](#)
- [libjpeg](#)
- [libpng](#)
- [gd](#)

If you don't know what they are or unable to install them to your system, please contact your system administrator for help.

Compiling and Installing on Mac OS X 10.2.6 with Fink

MFOLD_UTIL has only been tested on Mac OS X 10.2.6 with Fink and its pre-compiled version of XFree86 X11.

- Install MAC OS X Developer Tools.
- If you already have Apple's X11 installed, please uninstall it first by deleting /etc/X11 and /usr/X11R6.
- Download and install Fink, and follow the Fink instructions to get your shell environment set up.
<http://fink.sourceforge.net/download/>
- Download and install Fink Commander. Fink Commander is a GUI program for Fink.
<http://finkcommander.sourceforge.net/>
- Launch Fink Command and install following packages:
 - a) xfree86-base
 - b) xfree86-base-shlibs
 - c) xfree86-rootless
 - d) xfree86-rootless-shlibs
 - e) libpeng3
 - f) libpeng3-shlibs
 - g) libjpeg
 - h) libjpeg-shlibs
 - i) gd
 - j) gd-bin
 - k) gd-shlibs
 - l) glut
 - m) glut-shlibs
- Open a terminal and change directory to the source folder.
- Enter `ln -s Makefile.Darwin-Fink-X11 Makefile`.
- If you need to change the default installation path (/usr/local), modify DESTDIR variable in Makefile.
- Enter `make`.
- Enter `make uninstall` (must be root or using sudo).
- Set MFOLDBIN and MFOLDLIB environment variables in your shell. For example, in tcsh:

```
setenv MFOLDBIN /usr/local/bin
setenv MFOLDLIB /usr/local/lib
```

Compiling and Installing on Red Hat Linux 7.3, 8.0, 9

MFOLD_UTIL should also work on other Linux distributions.

- XFree86, gd, libpng, and libjpeg should have already been installed in your system during the default Red Hat installation. Please check the Red Hat manual or contact your system administrator for information and assistance.
- Enter “rpm -qi glut”. If it returns back with “package glut is not installed”, please continue; otherwise skip the next step.
- Install glut RPM package (must be root or using sudo):

a) Red Hat Linux 7.3

Open a terminal and enter “rpm -ivh

```
ftp://ftp.rpmfind.net/linux/redhat/7.3/en/os/i386/RedHat/RPMS/glut-3.7-4.i386.rpm”.
```

b) Red Hat Linux 8.0

Open a terminal and enter “rpm -ivh

```
ftp://ftp.rpmfind.net/linux/redhat/8.0/en/os/i386/RedHat/RPMS/glut-3.7-8.i386.rpm”.
```

c) Red Hat Linux 9

Open a terminal and enter “rpm -ivh

```
ftp://ftp.rpmfind.net/linux/redhat/9/en/os/i386/RedHat/RPMS/glut-3.7-12.i386.rpm”.
```

- Change directory to the source folder.
- Enter “ln -s Makefile.Linux-RedHat Makefile”
- If you need to change the default installation path (/usr/local), modify DESTDIR variable in Makefile.
- Enter “make”.
- Enter “make uninstall” (must be root or using sudo).
- Set MFOLDBIN and MFOLDLIB environment variables in your shell. For example, in tcsh:

```
setenv MFOLDBIN /usr/local/bin  
setenv MFOLDLIB /usr/local/lib
```

Compiling and Installing on SGI IRIX 6.5

- Go to SGI Freeware web site and install following packages in orders:
<http://freeware.sgi.com/index-by-alpha.html>
Please check the FAQ or contact your system administrator for information and assistance.
 - a) gcc
 - b) freetype
 - c) freetype2
 - d) libjpeg
 - e) libxpm
 - f) libz
 - g) libpng
 - h) gd (making sure that fw_gd.sw.hdr is installed)
 - i) glut
- Change directory to the source folder.
- If you are using 32-bit system, enter “ln -s Makefile.IRIX32 Makefile”.
If you are using 64-bit system, enter “ln -s Makefile.IRIX64 Makefile”.
- If you need to change the default installation path (/usr/local), modify DESTDIR variable in Makefile.
- Enter “make”.
- Enter “make uninstall” (must be root or using sudo).
- Set MFOLDBIN and MFOLDLIB environment variables in your shell. For example, in tcsh:
setenv MFOLDBIN /usr/local/bin
setenv MFOLDLIB /usr/local/lib

Uninstallation

- Open a terminal and change directory to the source folder.
- Enter “make uninstall” (must be root or using sudo).

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