

3MTS Beta Linux kernel and Xfree86 Drivers Installation Instructions

Beta Linux driver installation instructions.

Unpacking the archive

Expand the tar.gz file. This should create a directory called "Out".

In the "Out" directory, there will be several directories and a file named "install".

Installing the kernel driver

Most of the directories have the name linux2.4.x, where x is the version of the 2.4 Linux kernel. Open the directory corresponding to the system's kernel.

Copy the file twdrv.o to the ../ directory. This file should now be in the directory with the install script. There is also a file twdrv_nousb.o. This should be used only for non-USB systems.

Go back to the ../ directory.

Issue the command ./install. If the system complains that it is not a proper script file, then issue the command chmod a+x install and try again. This installs the kernel driver.

Many Linux providers customize the kernel, changing the name of the kernel. For example, a provider may change the kernel version from 2.4.3 to 2.4.3custom. This will cause the install script to issue a warning message about kernel mismatch. As long as twdrv.o's version number, displayed in the message, is the same as the first part of the system's kernel version, the driver should work fine.

If desired, add the install command to the system startup script.

Installing the XFree86 module

The installation of the XFree86 module requires moving the file to the proper XFree86 directory and editing the XFree86 configuration file. The paths and file names vary from system to system. Commonly, the configuration file path is /etc/X11/ and the file name XF86Config-4. The path for the input modules is usually /usr/X11R6/lib/modules/input/. Another useful directory is /var/log/, which contains the xfree86 log file XFree86.o.log. This can be useful for troubleshooting. The following instructions assume these names. If your system differs, make the appropriate adjustments.

Go to /etc/X11/ and edit XF86Config-4.

In the "ServerLayout" section, add the line

InputDevice "TWXinput" "SendCoreEvents".

Locate the area where other InputDevice sections. Add the following lines:

Section "InputDevice"

Identifier "TWXinput"

Driver "TWXinput"

Option "Device" "/dev/twscreen0"

EndSection

Save the file and exit the editor.

Return to the directory where the archive was expanded. Go to the Out/ subdirectory.

There are two subdirectories, Xfree4.0.3 and Xfree4.1.0. Depending on the version of XFree86 the system has, go to the appropriate directory. copy TWXinput_drv.o to /usr/X11R6/lib/modules/input/.

Start or restart XFree86.

End