NAME
ums - USB mouse driver

SYNOPSIS
To compile this driver into the kernel, place the following lines in your kernel configuration file:

>   **device ums**
>   **device hid**
>   **device uhci**
>   **device ohci**
>   **device usb**

Alternatively, to load the driver as a module at boot time, place the following line in loader.conf(5):

>   ums_load="YES"

DESCRIPTION
The **ums** driver provides support for mice that attach to the USB port. Supported are mice with any number of buttons and mice with a wheel.

The */dev/ums0* device presents the mouse as a *sysmouse* or *mousesystems* type device. See moused(8) for an explanation of these mouse types.

SYSCTL VARIABLES
The following variables are available as both sysctl(8) variables and loader(8) tunables:

hw.usb.ums.debug
>   Debug output level, where 0 is debugging disabled and larger values increase debug message verbosity. Default is 0.

FILES
/dev/ums0 blocking device node

EXAMPLES
Use the first USB mouse on the system as your console mouse:

>   moused -p /dev/ums0 -t auto

To be able to use the USB mouse under X, change the "Pointer" section in **xorg.conf** to the following:

    Device /dev/ums0
    Protocol Auto

If you want to be able to use the mouse in both virtual consoles as well as in X change it to:

    Device /dev/sysmouse
    Protocol Auto

SEE ALSO

ohci(4), sysmouse(4), uhci(4), usb(4), xorg.conf(5) (*ports/x11/xorg*), moused(8)

AUTHORS

The **ums** driver was written by Lennart Augustsson *<augustss@cs.chalmers.se>* for NetBSD and was adopted for FreeBSD by MAEKAWA Masahide *<bishop@rr.iij4u.or.jp>*.

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