#### **NAME**

wsp - Wellspring touchpad driver

#### **SYNOPSIS**

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

device wsp device hid device usb

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

wsp\_load="YES"

### DESCRIPTION

The wsp driver provides support for the Apple Internal Trackpad device found in many Apple laptops.

The driver simulates a three-button mouse using multi-finger tap detection. A single-finger press generates a left button click. A two-finger tap maps to the right button; whereas a three-finger tap gets treated as a middle button click.

wsp supports dynamic reconfiguration using sysctl(8) through nodes under hw.usb.wsp. Pointer sensitivity can be controlled using the sysctl tunable hw.usb.wsp.scale\_factor. Tap to left-click can be controlled using the sysctl tunable hw.usb.wsp.enable\_single\_tap\_clicks, set to 0 to disable single tap clicks or 1 to enable them (default). Z-Axis sensitivity can be controlled using the sysctl tunable hw.usb.wsp.z\_factor. Z-Axis inversion can be controlled using the sysctl tunable hw.usb.wsp.z\_invert, set to 0 to disable (default) or 1 to enable inversion.

## **FILES**

wsp creates a blocking pseudo-device file, /dev/wsp0, which presents the mouse as a sysmouse or mousesystems type device--see moused(8) for an explanation of these mouse types.

# **SEE ALSO**

sysmouse(4), usb(4), loader.conf(5), xorg.conf(5) (ports/x11/xorg), moused(8), sysctl(8)

### **AUTHORS**

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