NAME

   mos - Moschip MCS7730/MCS7830/MCS7832 USB Ethernet driver

SYNOPSIS

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

   device uhci
   device ohci
   device ehci
   device usb
   device miibus
   device uether
   device mos

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

   if_mos_load="YES"

DESCRIPTION

   The **mos** driver provides support for USB Ethernet adapters based on the Moschip MCS7730/MCS7830/MCS7832 chipset.

   The adapters that contain the Moschip MCS7730/MCS7830/MCS7832 chipset will operate at 100Base-TX and full-duplex.

   The Moschip contains a 10/100 Ethernet MAC with MII interface and is designed to work with both Ethernet and HomePNA transceivers. Although designed to interface with 100Mbps peripherals, this only works with USB 2.0. The existing USB 1.0 standard specifies a maximum transfer speed of 12Mbps. USB 1.0 Users should therefore not expect to actually achieve 100Mbps speeds with these devices.

   The Moschip supports a 64-bit multicast hash table, single perfect filter entry for the station address and promiscuous mode. Packets are received and transmitted over separate USB bulk transfer endpoints.

   For more information on configuring this device, see ifconfig(8).

HARDWARE

   Adapters supported by the **mos** driver include:

   •   Sitecom LN030

SEE ALSO

altq(4), arp(4), miibus(4), netintro(4), ng_ether(4), ifconfig(8)

ADMtek AN986 data sheet,
http://www.moschip.com/data/products/MCS7830/Data%20Sheet_7830.pdf.

HISTORY

The **mos** device driver first appeared in FreeBSD 8.2.

AUTHORS

The **mos** driver was written by Rick van der Zwet info@rickvanderzwet.nl.