eiad

Adaptec 174x EISA SCSI host adapter driver

Description

eiad is the device driver for Adaptec 174x EISA SCSI host adapter cards.

In enhanced mode, the Adaptec AHA-174x uses the **eiad** driver. In standard mode, the Adaptec AHA-174x emulates the Adaptec AHA-154x host adapter and uses the **ad**(HW) driver.

Before installing the Adaptec AHA-174x, set the card to enhanced mode to utilize its full functionality using the EISA configuration utility.

Refer to the *SCO Hardware Compatibility Handbook* to determine the support status of your host adapter, or contact your system supplier.

Configuring the eiad driver

You can configure the **eiad** driver using entries in */etc/conf/cf.d/mdevice* and */etc/conf/sdevice.d/eiad*. See *mdevice*(F) and *sdevice*(F). Changes to these files take effect once you relink the kernel using **link_unix**(ADM) and reboot the system.

Configure **eiad** driver-specific characteristics by editing the */etc/conf/pack.d/eiad/space.c* file, which controls parameters such as the SCSI ID, the SCB handling mode, parity checking, and timeouts.

Boot time configuration of SCSI

Use the **bootstring**(HW) parameters to override the default hardware configuration information. Of special interest are the **adapter=** parameter that specifies information for the host adapter card that plugs into or is part of the motherboard, and the ***periph*=** parameter that specifies information about the host adapter being used by one of the generic peripheral interfaces (**Sdsk**, **Srom**, or **Stp**).

ioctl commands

The **eiad** driver supports all standard SCSI ioctls that are defined in the <*sys/scsicmd.h*> header file and documented on the **scsi**(HW) manual page.

Diagnostics

These error messages associated with **eiad** may display on the console. See **messages**(M) for general information about kernel error messages, including a list of generic device driver errors.

`NOTICE: eiad: No soft reset interrupt pending, status=0xm`
`AHA-1740 cmd : n`
`AHA-1740 sense : o`
No interrupt was pending when adapter interrupts were to be cleared.

`WARNING: eiad: Adapter m hard reset failure, port 0xn = 0x`***status***
Hard reset of the adapter failed.

`WARNING: eiad: Adapter` ***m*** `soft reset failure: port 0x`***n***`0x =` ***status***
Clearing pending adapter interrupts failed.

`WARNING: eiad: Unexpected interrupt status 0x`***n***
An unexpected interrupt was received.

`ERROR: eiad_reset: Adapter 0 reset failure: port 0x%x = 0x%b`
The driver was unable to perform a soft reset on the host adapter.

`WARNING: eiad: Adapter diagnostic failure 0x%x: bus 0`
eiad was unable to initialize the hardware that it found. This often indicates a hardware error.

Files

/usr/include/sys/scsicmd.h
SCSI interface header files

See also

ad(AHS), **boot**(HW), **link_unix**(ADM), **mdevice**(F), **mkdev**(ADM), **sconf**(ADM), **scsi**(HW), **sdevice**(F).

Chapter 16, "Adding SCSI host adapters and peripherals" in the *SCO OpenServer Handbook*
SCO OpenServer *System Administration Guide*