jukebox, Sjk

media changer devices

Description

Sjk is the SCSI peripheral driver for media changer devices (juke boxes).

The command **mkdev juke** is used to configure the media changer driver interactively. This defines the SCSI host adapter, bus number, controller target ID, and device LUN in the SCSI configuration file *mscsi*(F). The data transfer elements of a media changer (for example, DAT or CD-ROM drive) must be defined as separate SCSI peripherals using an appropriate command such as **mkdev tape** or **mkdev cdrom**.

Use the **juke**(AHS) command to control a media changer device.

The device file */dev/Sjk**N*** can be used to control the associated media changer device. ***N*** corresponds to the minor number of the device. The minor device number determines which media changer will be accessed; minor number 0 accesses the first device, 1 the second device and so on, up to minor number 255.

ioctl commands

The following **ioctl**(S) commands, defined in */usr/include/sys/Sjk.h*, can be used to control a media changer (the argument ***arg*** to **ioctl** is set to 0 unless otherwise indicated):

SJK_GETJUKEADDR
: Return the details of the media changer's internal elements in the **`struct Sjk_address`** pointed to by ***arg***.

SJK_MOVEJUKE
: Move a data medium (tape, CD) from a ***source*** storage element to a ***destination*** storage element. The argument ***arg*** is coded as:

  `(`***source*** `<< 16) |` ***destination***

  where ***source*** and ***destination*** are of type `unsigned short`.

SJK_NOJUKEREMOVE
: Disable the front panel controls of the media changer.

SJK_OKJUKEREMOVE
: Enable the front panel controls of the media changer.

SJK_POSITIONJUKE
: Position medium transport element "mt0" in front of storage element "st***N***", where ***N*** is the value of ***arg*** of type `unsigned int`.

SJK_RESET
: Perform a hardware reset on the media changer.

Diagnostics

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

`NOTICE: Sjk: Destination Element Full`
: A data medium could not be placed in a given element because that element was already occupied.

`NOTICE: Sjk: Invalid CDB Field`
A SCSI command data block field was not understood by the media changer's controller.

`NOTICE: Sjk: Invalid Command Code`
A SCSI command was not understood by the media changer's controller.

`NOTICE: Sjk: Invalid Element Address`
A specified element was not found to be present in the media changer.

`NOTICE: Sjk: Logical Unit Not Supported`
A SCSI command addressed a non-existent element of the media changer.

`NOTICE: Sjk: Manual Intervention Required`
A hardware error occurred in the media changer which requires the intervention of a human operator.

`NOTICE: Sjk: Mechanical problem`
A hardware failure occurred in the media changer.

`NOTICE: Sjk: Media Removal Prevented`
A data medium could not be removed from a specified element because of a physical obstruction.

`NOTICE: Sjk: Power-on Reset, or Bus Reset`
A hardware reset was performed on the media changer.

`NOTICE: Sjk: Source Element Empty`
A data medium could not be removed from a given element because it was not present there.

Files

*/dev/Sjk**N*** control special device for media changer with minor device number ***N***

/usr/include/sys/Sjk.h
header definitions file

See also

cdrom(HW), **juke**(AHS), **mkdev**(ADM), **mscsi**(F), **scsi**(HW), **scsitape**(HW)