NAME

xt – driver for Xylogics 472 1/2 inch tape controller

SYNOPSIS

xt@2d,ee60:[l,m][b][n]
xt@2d,ee68:[l,m][b][n]

AVAILABILITY

Only available on Sun-4/200, Sun-4/300, and Sun-4/400 series systems.

DESCRIPTION

The Xylogics 472 tape controller controls Pertec-interface 1/2” tape drives such as the Fujitsu M2444 and the CDC Keystone III. The **xt** driver provides a standard tape interface to the device; see **mtio**(7I) for details.

The **xt** driver supports the character device interface. The driver can be opened with either rewind on close or no rewind on close options. The tape format and options are specified using the device name (see FILES below).

EOT Handling

The user will be notified of end of tape (EOT) on write by a 0 byte count returned the first time this is attempted. This write must be retried by the user. Subsequent writes will be successful until the tape winds off the reel. Reading past EOT is transparent to the user.

IOCTL

See **mtio**(7I) for a list of ioctls available for tape devices. However, not all devices support all ioctls. The driver returns an ENOTTY error on unsupported ioctls.

1/2” tape devices do not support the tape retension function.

ERRORS

EACCES The driver is opened for write access and the tape is write protected.

EBUSY The tape drive is in use by another process. Only one process can use the tape drive at a time.

EINVAL The requested number of bytes for a read operation is less than the actual record length on the tape.

EIO During opening, the tape device is not ready because either no tape is in the drive, or the drive is not on-line. Once open, this error is returned if the requested I/O transfer could not be completed.

ENOTTY This indicates that the tape device does not support the requested ioctl function.

ENXIO During opening, the tape device does not exist.

FILES

/kernel/drv/xt	driver module
/kernel/drv/xt.conf	driver configuration file
/dev/rmt/[0–1][l,m][b][n]	raw devices

For raw devices **l,m** specifies the density (low, medium), and **b** the optional BSD behavior (see **mtio**(7I)) and **n** the optional no rewind behavior. For example **/dev/rmt/0lbn** specifies unit 0, low density, BSD behavior, and no rewind.

For 1/2″ reel tape devices, the densities are:

l	typically 1600 BPI density
m	typically 6250 BPI density

SEE ALSO **ioctl**(2), **driver.conf**(4), **vme**(4), **mtio**(7I)

BUGS Record sizes are restricted to an even number of bytes.

The EOT handling for write operation differs from the **mtio**(7I) specification.