NAME

hdio – SMD and IPI disk control operations

SYNOPSIS

#include <sys/hdio.h>

DESCRIPTION

The SMD and IPI disk drivers supplied with this release support a set of **ioctl**(2) requests for diagnostics and bad sector information. Basic to these **ioctl( )** requests are the definitions in **<sys/hdio.h>.**

IOCTLS

HDKIOCGTYPE The argument is a pointer to a **hdk_type** structure (described below). This **ioctl( )** gets specific information from the hard disk.

HDKIOCSTYPE The argument is a pointer to a **hdk_type** structure (described below). This **ioctl( )** sets specific information about the hard disk.

```
/*
 * Used for drive info
 */
struct hdk_type {
        u_short     hdkt_hsect;         /* hard sector count (read only) */
        u_short     hdkt_promrev;       /* prom revision (read only) */
        u_char      hdkt_drtype;        /* drive type (ctlr specific) */
        u_char      hdkt_drstat;        /* drive status (ctlr specific, ro) */
};
```

HDKIOCGBAD The argument is a pointer to a **hdk_badmap** structure (described below). This **ioctl( )** is used to get the bad sector map from the disk.

HDKIOCSBAD The argument is a pointer to a **hdk_badmap** structure (described below). This **ioctl( )** is used to set the bad sector map on the disk.

```
/*
 * Used for bad sector map
 */
struct hdk_badmap {
        caddr_t     hdkb_bufaddr;       /* address of user's map buffer */
};
```

HDKIOCGDIAG
The argument is a pointer to a **hdk_diag** structure (described below). This **ioctl( )** gets the most recent command that failed along with the sector and error number from the hard disk.

```
/*
 * Used for disk diagnostics
 */
struct hdk_diag {
        u_short     hdkd_errcmd;        /* most recent command in error */
        daddr_t     hdkd_errsect;       /* most recent sector in error */
        u_char      hdkd_errno;         /* most recent error number */
        u_char      hdkd_severe;        /* severity of most recent error */
};
```

SEE ALSO **ioctl**(2), **dkio**(7I), **ipi**(7D), **xd**(7D), **xy**(7D)