NAME

drv_getparm – retrieve kernel state information

SYNOPSIS

#include <sys/ddi.h>

int drv_getparm(unsigned long *parm***, unsigned long** **value_p***);**

INTERFACE LEVEL

Architecture independent level 1 (DDI/DKI).

ARGUMENTS

parm The kernel parameter to be obtained. Possible values are:

- **LBOLT** Read the value of **lbolt**. (**lbolt** is an integer that represents the number of clock ticks since the last system reboot. This value is used as a counter or timer inside the system kernel.)
- **PPGRP** Read the process group identification number. This number determines which processes should receive a **HANGUP** or **BREAK** signal when detected by a driver.
- **UPROCP** Read the process table token value.
- **PPID** Read process identification number.
- **PSID** Read process session identification number.
- **TIME** Read time in seconds.
- **UCRED** Return a pointer to the caller's credential structure.

value_p A pointer to the data space in which the value of the parameter is to be copied.

DESCRIPTION

drv_getparm( ) function verifies that *parm* corresponds to a kernel parameter that may be read. If the value of *parm* does not correspond to a parameter or corresponds to a parameter that may not be read, **-1** is returned. Otherwise, the value of the parameter is stored in the data space pointed to by *value_p*.

drv_getparm( ) does not explicitly check to see whether the device has the appropriate context when the function is called and the function does not check for correct alignment in the data space pointed to by *value_p*. It is the responsibility of the driver writer to use this function only when it is appropriate to do so and to correctly declare the data space needed by the driver.

RETURN VALUES

drv_getparm( ) returns **0** to indicate success, –**1** to indicate failure. The value stored in the space pointed to by *value_p* is the value of the parameter if **0** is returned, or undefined if –**1** is returned. –**1** is returned if you specify a value other than **LBOLT**, **PPGRP**, **PPID**, **PSID**, **TIME**, **UCRED**, or **UPROCP**. Always check the return code when using this function.

CONTEXT

drv_getparm( ) can be called from user context only when using **PPGRP**, **PPID**, **PSID**, **UCRED**, or **UPROCP**. It can be called from user or interrupt context when using the **LBOLT** or **TIME** argument.

SEE ALSO

buf(9S)

Writing Device Drivers