NAME

ddi_prop_get_int – lookup integer property

SYNOPSIS

#include <sys/ddi.h>
#include <sys/sunddi.h>

int ddi_prop_get_int(dev_t *match_dev*, **dev_info_t** **dip*,
u_int *flags*, **char** **name*, **int** *defvalue***);**

ARGUMENTS

match_dev — Device number associated with property or **DDI_DEV_T_ANY.**

dip — Pointer to the device info node of device whose property list should be searched.

flags — Possible flag values are some combination of:

DDI_PROP_DONTPASS
Do not pass request to parent device information node if property not found.

DDI_PROP_NOTPROM
Do not look at PROM properties (ignored on platforms that do not support PROM properties).

name — String containing the name of the property.

defvalue — An integer value that is returned if the property cannot be found.

INTERFACE LEVEL

Solaris DDI specific (Solaris DDI).

DESCRIPTION

ddi_prop_get_int( ) searches for an integer property and, if found, returns the value of the property.

Properties are searched for based on the *dip*, *name*, *match_dev*, and the type of the data (integer). The property search order is as follows:

1. Search software properties created by the driver.
2. Search the software properties created by the system (or nexus nodes in the device info tree).
3. Search the driver global properties list.
4. If **DDI_PROP_NOTPROM** is not set, search the PROM properties (if they exist).
5. If **DDI_PROP_DONTPASS** is not set, pass this request to the parent device information node.
6. Return **DDI_PROP_NOT_FOUND.**

Usually, the *match_dev* argument should be set to the actual device number that this property is associated with. However, if the *match_dev* argument is **DDI_DEV_T_ANY,** then **ddi_prop_get_int( )** will match the request regardless of the *match_dev* the property was created with. If a property was created with *match_dev* set to **DDI_DEV_T_NONE,** then the only way to look up this property is with a *match_dev* set to **DDI_DEV_T_ANY.** PROM properties are always created with *match_dev* set to **DDI_DEV_T_NONE.**

name must always be set to the name of the property being looked up.

The return value of the routine is the value of the property. If the property is not found, the argument *defvalue* is returned as the value of the property.

RETURN VALUES

ddi_prop_get_int( ) returns the value of the property. If the property is not found, the argument *defvalue* is returned.

CONTEXT

ddi_prop_get_int( ) can be called from user or kernel context.

EXAMPLES

The following example demonstrates the use of **ddi_prop_get_int( )**.

```
/*
 * Get the value of the integer "width" property, using
 * our own default if no such property exists
 */
width = ddi_prop_get_int(xx_dev, xx_dip, 0, "width",
                XX_DEFAULT_WIDTH);
```

SEE ALSO

ddi_prop_exists(9F), **ddi_prop_lookup**(9F), **ddi_prop_update**(9F), **ddi_prop_remove**(9F)

Writing Device Drivers