NAME

add_drv – add a new device driver to the system

SYNOPSIS

add_drv [–**b** *basedir*] [–**c** *class_name*] [–**i** *'identify_name...'*] [–**m** *'permission','...'*] [–**n**]
device_driver

AVAILABILITY

SUNWcsu

DESCRIPTION

The **add_drv** command is used to inform the system about newly installed device drivers.

OPTIONS

–**b** *basedir*	Sets the path to the root directory of the diskless client. Used on the server to execute **add_drv** for a diskless client. The client machine must be rebooted to install the driver.
–**c** *class_name*	The driver being added to the system exports the class *class_name.*
–**i** *'identify_name'*	A white-space separated list of aliases for the driver *device_driver*.
–**m** *'permission'*	Specify the file system permissions for device nodes created by the system on behalf of *device_driver*.
–**n**	Do not try to load and attach the driver, just modify the system configuration files for the *device_driver*.

EXAMPLES

The following example adds the **SUNW,example** driver to the system, with an alias name of **SUNW,alias**. It assumes the driver has already been copied to **/usr/kernel/drv**.

```
example# add_drv –m '* 0666 bin bin','a 0644 root sys' \
        –i 'SUNW,alias' SUNW,example
```

Every minor node created by the system for the **SUNW,example** driver will have the permission **0666**, and be owned by user **bin** in the group **bin**, except for the minor device **a**, which will be owned by **root**, group **sys**, and have a permission of **0644**.

The following example adds the driver to the client **/export/root/sun1**. The driver is installed and loaded when the client machine, **sun1**, is rebooted.

```
example# add_drv –m '* 0666 bin bin','a 0644 root sys' \
        –i 'SUNW,alias' -b /export/root/sun1 \
        SUNW,example
```

This second example produces the same result as the first, except the changes are on the diskless client, sun1, and the client must be rebooted for the driver to be installed.

EXIT CODES

add_drv returns **0** on success and **1** on failure.

FILES

/kernel/drv	boot device drivers, platform-dependent drivers.
/usr/kernel/drv	other drivers that could potentially be shared between platforms.
/etc/driver_aliases	driver aliases file.
/etc/driver_classes	driver classes file.
/etc/minor_perm	minor node permissions.

/etc/name_to_major major number binding.

SEE ALSO

devlinks(1M), **disks**(1M), **drvconfig**(1M), **kernel**(1M), **modinfo**(1M), **ports**(1M), **rem_drv**(1M), **tapes**(1M), **driver.conf**(4), **system**(4), **ddi_create_minor_node**(9F)

Writing Device Drivers

NOTES

Aliases may require quoting (with double-quotes) if they contain numbers.

BUGS

add_drv will accept a full pathname for *device_driver*. However, the kernel does not use the full pathname; it only uses the final component and searches the internal driver search path for the driver. This can lead to the kernel loading a different driver than expected.

For this reason, it is **not** recommended that you use **add_drv** with a full pathname. See **kernel**(1M) for more information on the driver search path.