NAME

makedev, major, minor - manage a device number

SYNOPSIS

```
#define _BSD_SOURCE /* See feature_test_macros(7)
*/
#include <sys/types.h>
dev_t makedev(unsigned int maj, unsigned int min);
unsigned int major(dev_t dev);
unsigned int minor(dev t dev);
```

DESCRIPTION

A device ID consists of two parts: a major ID, identifying the class of the device, and a minor ID, identifying a specific instance of a device in that class. A device ID is represented using the type $dev_{_}t$.

Given major and minor device IDs, makedev() combines these to produce a device ID, returned as the function result. This device ID can be given to mknod(2), for example.

The **major**() and **minor**() functions perform the converse task: given a device ID, they return, respectively, the major and minor components. These macros can be useful to, for example, decompose the device IDs in the structure returned by stat(2).

CONFORMING TO

The **makedev**(), **major**(), and **minor**() functions are not specified in POSIX.1, but are present on many other systems.

NOTES

These interfaces are defined as macros. Since glibc 2.3.3, they have been aliases for three GNU-specific functions: **gnu_dev_makedev()**, **gnu_dev_major()**, and **gnu_dev_minor()**. The latter names are exported, but the traditional names are more portable.

SEE ALSO

mknod(2), stat(2)

COLOPHON

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