



Linux Ubuntu 26.04 Manual Pages on command 'gnu_dev_major.3'

```
$ man gnu_dev_major.3
```

makedev(3) Library Functions Manual makedev(3)

NAME _____

makedev, major, minor - manage a device number

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

```
#include <sys/sysmacros.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)`.

ATTRIBUTES

For an explanation of the terms used in this section, see `attributes(7)`.

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? Interface

? Attribute ? Value ?

[illegible]

? makedev(), major(), minor() ? Thread safety ? MT-Safe ?

[illegible]

VERSIONS

The BSDs expose the definitions for these macros via `<sys/types.h>`.

STANDARDS

None.

HISTORY

BSD, HP-UX, Solaris, AIX, Irix.

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.

Depending on the version, glibc also exposes definitions for these macros from `<sys/types.h>` if suitable feature test macros are defined. However, this behavior was deprecated in glibc 2.25, and since glibc 2.28, `<sys/types.h>` no longer provides these definitions.

SEE ALSO

mknod(2), stat(2)

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