

# cec ioctl()

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.. c:namespace:: CEC

## Name

cec-ioctl - Control a cec device

## Synopsis

```
#include <sys/ioctl.h>
```

```
int ioctl(int fd, int request, void *argp)
```

## Arguments

fd

File descriptor returned by `c:func:'open()'`.

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request

CEC ioctl request code as defined in the cec.h header file, for example `ref:'CEC_ADAP_G_CAPS <CEC_ADAP_G_CAPS>'`.

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argp

Pointer to a request-specific structure.

## Description

The `c:func:'ioctl()'` function manipulates cec device parameters. The argument `fd` must be an open file descriptor.

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The `ioctl request` code specifies the cec function to be called. It has encoded in it whether the argument is an input, output or read/write parameter, and the size of the argument `argp` in bytes.

Macros and structures definitions specifying cec ioctl requests and their parameters are located in the cec.h header file. All cec ioctl requests, their respective function and parameters are specified in `ref:'cec-user-func'`.

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## Return Value

On success 0 is returned, on error -1 and the `errno` variable is set appropriately. The generic error codes are described at the [ref: Generic Error Codes <gen-errors>](#) chapter.

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Request-specific error codes are listed in the individual requests descriptions.

When an ioctl that takes an output or read/write parameter fails, the parameter remains unmodified.