## NAME

**libevent** −− Munts Technologies Simple I/O Library for Linux: Event Notification Module

## SYNOPSIS

**#include <libevent.h>**

**void EVENT_init(int** **error***);**
**void EVENT_close(int** **error***);**
**void EVENT_register_fd(int** *fd***, int** *events***, int** **error***);**
**void EVENT_unregister_fd(int** *fd***, int** **error***);**
**void EVENT_wait(int** **fd***, int** **event***, int** *timeoutms***, int** **error***);**

Link with **-lsimpleio**

## DESCRIPTION

All functions return **0** in ***error** upon success or an **errno** value in ***error** upon failure.

**EVENT_init()** must be called before any of the other functions.

**EVENT_close()** may be called to release any internal resources previously acquired by **EVENT_init().**

**EVENT_register_fd()** may be called to register **epoll(7)** event notifications for the given file descriptor **fd.** Event codes such as **EPOLLIN** (input ready) are defined in the **/usr/include/sys/epoll.h** header file.

**EVENT_unregister_fd()** may be called to unregister event notifications for the given file descriptor.

**EVENT_wait()** may be called to wait until an event notification occurs. The **timeoutms** parameter indicates the time in milliseconds to wait for a notfication. If a notification occurs before the timeout expires, ***error** is set to **0** and ***fd** and ***event** are set to the next available file descriptor and event code. If no notification occurs before the timeout expires, ***error** is set to **EAGAIN** and ***fd** and ***event** are invalid.

## SEE ALSO

libsimpleio(2), libgpio(2), libhidraw(2), libi2c(2), libserial(2), libspi(2)

## AUTHOR

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## NAME

**libsimpleio** −− Munts Technologies Simple I/O Library for Linux

## DESCRIPTION

**libsimpleio** is an attempt to encapsulate (as much as possible) the ugliness of Linux I/O device access. It provides services for the following types of I/O devices:

* GPIO (General Purpose Input/Output) Pins
* Raw HID (Human Interface Device) Devices
* I2C (Inter-Integrated Circuit) Bus Devices
* Serial Ports
* SPI (Serial Peripheral Interface) Bus Devices

Although **libsimpleio** was originally intended for Linux microcomputers such as the Raspberry Pi, it can also be useful on larger desktop Linux systems (particularly the raw HID and serial port services).

## SEE ALSO

libevent(2), libgpio(2), libhidraw(2), libi2c(2), libserial(2), libspi(2)

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