libreactor Documentation

Release 1.0.0

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This is the documentation for libreactor 1.0.0, last updated Mar 25, 2017.

CHAPTER 1

Introduction

Extendable event driven high performance C-abstractions.

CHAPTER 2

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API Reference

Library Version

The libreactor version uses Semantic Versioning and is of the form *A.B.C*, where *A* is the major version, *B* is the minor version and *C* is the patch version.

When a new release only fixes bugs and doesn't add new features or functionality, the patch version is incremented. When new features are added in a backwards compatible way, the minor version is incremented and the micro version is set to zero. When there are backwards incompatible changes, the major version is incremented and others are set to zero.

The following preprocessor constants specify the current version of the library:

LIBREACTOR_VERSION_MAJOR, **LIBREACTOR_VERSION_MINOR**, **LIBREACTOR_VERSION_PATCH**
: Integers specifying the major, minor and patch versions, respectively.

LIBREACTOR_VERSION A string representation of the current version, e.g. `"1.2.1"`

reactor_core

reactor_core is the main event loop object, and has low level interfaces to handle file descriptor events.

reactor_core
: This private data structure represents the main event loop object.

void **reactor_core_construct**()
: Constructs a thread local reactor_core object singleton.

void **reactor_core_destruct**()
: Destructs a thread local reactor_core object singleton.

void **reactor_core_register**(int *fd*, reactor_user_callback **callback*, void **state*, int *events*)
Register *fd* in the reactor_core. Events specified in the *events* mask will trigger the *callback* function with *state* included as argument.

void **reactor_core_deregister**(int *fd*)
Deregister *fd* from the reactor_core.

void ***reactor_core_poll**(int *fd*)
Returns a pointer to the pollfd structure representing the *fd*.

void ***reactor_core_user**(int *fd*)
Returns a pointer to the reactor_user structure representing the *fd*.

int **reactor_core_run**()
Initiates the reactor_core event loop.

Changes in libreactor

Version 1.0

Released 2017-02-10

- Initial release

CHAPTER 3

Indices and Tables

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