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Other coroutine libraries

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Xingbo Wu edited this page on 2 Feb · 32 revisions

Assorted coroutine, fibers and green thread libraries and resources

🔗 Libraries

- Low Level
 - [libcoro](#) -- very low level, just does the coroutine switching, cross-platform
 - [fcontext](#) -- x86_64 only
 - [Cthreads](#) -- Very efficient, x86_64 and x86_32 only
 - [libcoroutine](#) -- A different libcoroutine, with variadic function calls
- Coroutines
 - [libconcurrent](#) & [libconcurrent homepage](#)
 - [Portable Coroutine Library \(PCL\)](#)
 - [libconcurrency](#)
 - [libcoroutine](#)
 - [libco](#)
 - [libaco](#) -- A blazing fast and lightweight C asymmetric coroutine library (also with a detailed math proof).
- Fibers/Green-Threads
 - [libtask](#)
 - [State Threads](#)
 - [GNU Pth](#)
 - [RIBS](#) -- Robust Infrastructure for Backend Systems
 - [threads.c](#) (at the bottom of the page)

- [Protothreads](#)
- [libfiber](#)
- [libevfibers](#) -- based on libcoro and libev
- [lthread](#)
- [fiber-framework](#)
- [rinoo](#)
- [cgreenlet](#)
- [millc](#) -- Preprocessor that adds GoLang-like syntactic sugar to writing of user-space-threads
- [Continuation Passing C](#) - language based on C with tree transformation approach.
- [qthreads](#) - lightweight locality-aware user-level threading runtime with multiple green-thread schedulers, including an M:N one with work stealing

Unsorted

- <https://github.com/mikewei/micoro>
- <https://github.com/Zewo/libvenice>
- <https://github.com/geofft/vireo>

Resources

- [Revisiting Coroutines](#) by Ana Lucia de Moura and Roberto Ierusalimsky -- an expansive discussion of different coroutines and their classification and uses
- [Coroutine \(Wikipedia\)](#)
- [Fiber \(Wikipedia\)](#)
- [Green Threads \(Wikipedia\)](#)
- ["minimal user-level thread package"](#)
- [Coroutines in C](#) by Simon Tatham
- [Coroutines in C Redux](#)
- [A Minimal User-Level Thread Package](#) by Douglas W. Jones
- [Cooperative Task Management](#) -- A 2002 USENIX paper from Microsoft that describes the software engineering advantages and disadvantages of different concurrency models in great detail.

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https://github.com/baruch/libwire.wiki.git
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