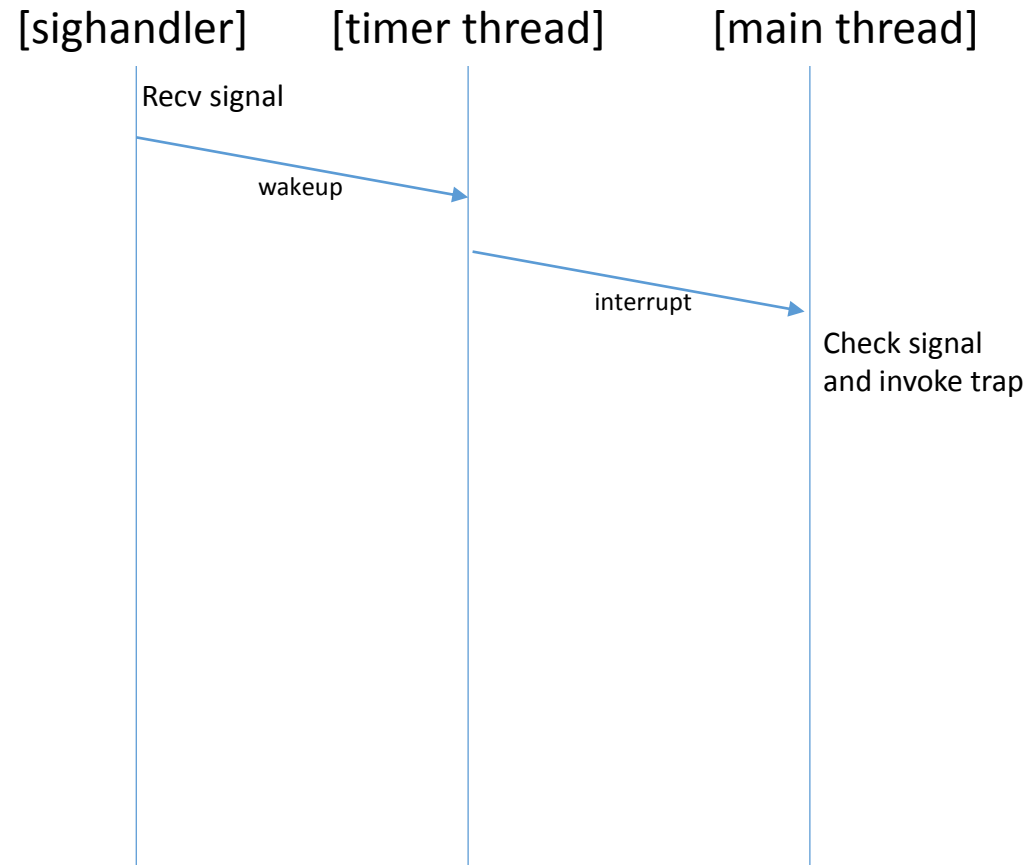


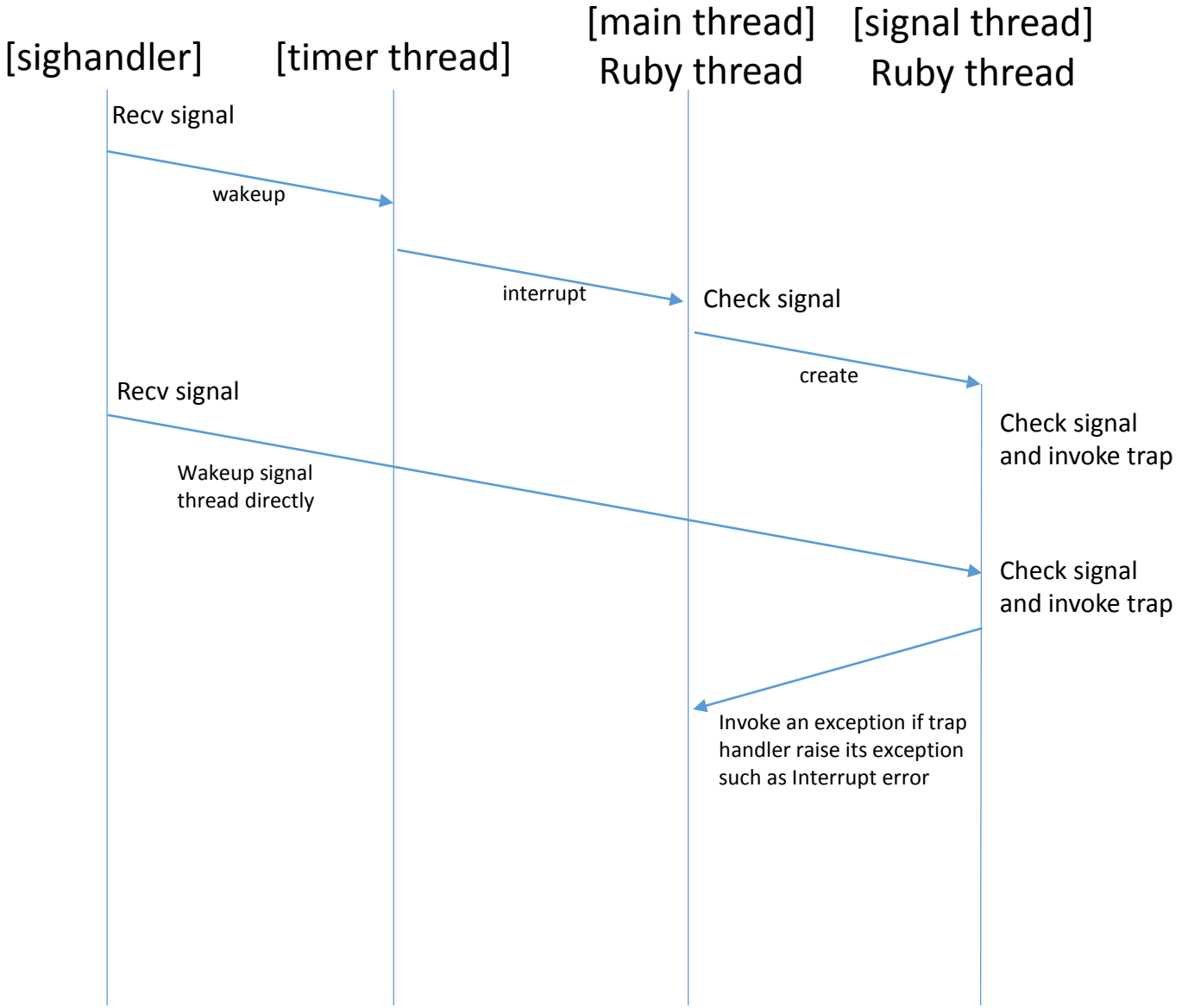
Proposal:

Creating a independent signal thread for trap handler

Current signal/trap handling



Signal/trap handling with signal thread



Advantage:

- (1) Signal thread is independent on main thread, this means that you can use thread synchronization between trap handler and main thread. In other words, you can run any program in trap handler.
- (2) Simplify a path from sighandler to trap invocation thread (after creation of a signal thread)
- (3) Doesn't need a difficult implementation (modify is limited).

Disadvantage:

- (1) There is a small compatibility issue because "Thread.current" on a trap handler is not a main thread.

Discussion:

- (1) Create signal thread at first like timer thread is **high** cost. Without `trap`, we don't need a signal thread any more.
- (2) In signal handler and timer thread, we can't make a signal thread because creating "Ruby thread" (== signal thread) needs GVL. So the process path from timer thread to main thread is remained.