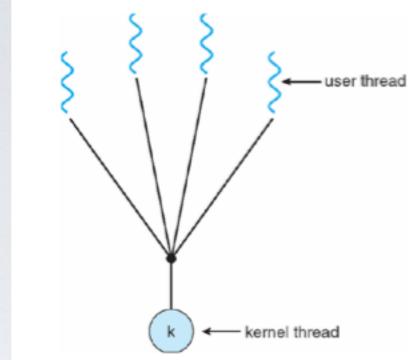
## POSIX Thread API

- Create a new thread, run fn with arg
  tid thread\_create (void (\*fn) (void \*), void \*);
  - Allocate Thread Control Block (TCB)
  - Allocate stack
  - Put func, args on stack
  - Put thread on ready list
- Destroy current thread
  void thread exit ();
- Wait for thread thread to exit
  void thread join (tid thread);

## Many-to-one model User-level threads (a.k.a green threads)



One kernel thread per process thread management and scheduling is delegated to a library

- e.g pthreads PTHREAD\_SCOPE\_PROCESS
- e.g Java threads
- → The kernel is not involved
  - √ Very lightweight and fast
  - ✓ All threads can be blocked if one of them is waiting or an event
  - ✓ Cannot be scheduled on multiple cores