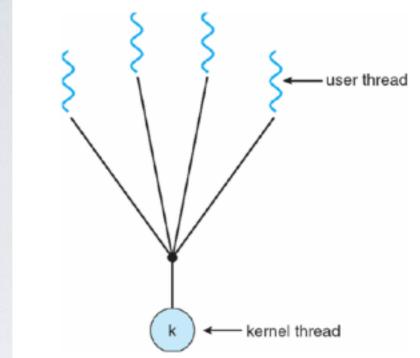
POSIX Thread API

- 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 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