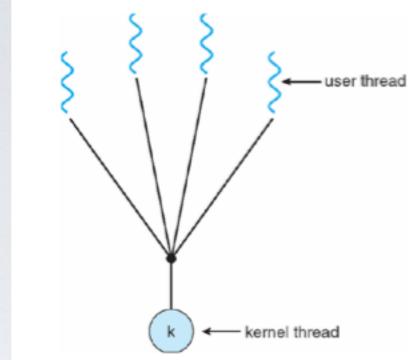
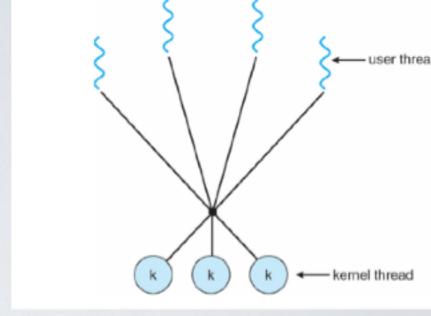
## Many-to-one model User-level threads (a.k.a green threads)



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

Many-to-many model Hybrid threads (a.k.a n:m threading)



User threads implemented on kernel threads

- e.g (old) Solaris
- → Multiple kernel-level threads per process