

# User-Level Threads

User-level threads provide a library of functions to allow user processes to create and manage their own threads.

😊 No need to modify the OS

😊 Simple representation

- ▶ each thread is represented simply by a PC, regs, stack, and a small TCB, all stored in the user process' address space

😊 Simple Management

- ▶ creating a new thread, switching between threads, and synchronization between threads can all be done without intervention of the kernel

😊 Fast

- ▶ thread switching is not much more expensive than a procedure call

😊 Flexible

- ▶ CPU scheduling (among threads) can be customized to suit the needs of the algorithm – each process can use a different thread scheduling algorithm