Single-threaded vs Multi-threaded process

Pros	Cons
• Faster communication • Redundancy check	• Overwriting data • Synchronization issues • Unequal stack space

Parallel processes imply concurrency, but not the converse.

Pthreads

POSIX Thread vs. Process APIs

POSIX Threads	Description	Process Equivalent
pthread_create()	create a new thread	fork()
pthread_self()		getpid()
pthread_cancel()		
pthread_detach()		
pthread_exit()		exit()
pthread_kill()		kill()
pthread_join()		wait()

fork() vs pthread_create()

- Fork()
  - Both parent and child processes resume at the next statement following fork() call
- Pthread_create():
  - Parent thread resumes at the next statement
  - Child thread resume at function