Benefits

Responsiveness

an application can continue running while it waits for some events in the background

Resource sharing

threads can collaborate by reading and writing the same data in memory (instead of asking the OS to pass data around)

· Economy of time and space

no need to create a new PCB and switch the entire context (only the registers and the stack)

· Scalability in multi-processor architecture

the same application can run on multiple cores

Multithreading Model