

Multi-threaded CPU program

CPU

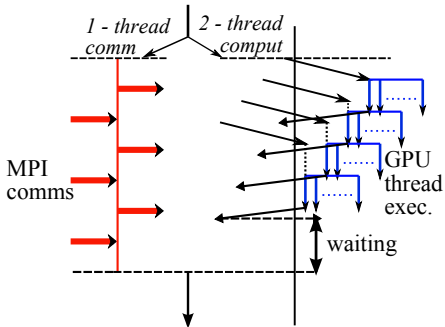
GPU

CPU thread creation

1 - Synchronous internode CPU comms

CPU thread synchronization barrier

CPU main thread next instructions



2 - Async. CPU --> GPU data transfers on streams

2 - Async. GPU parallel computations on streams

2 - Async GPU --> CPU data transfers on streams

Automatic resynchronization on each stream