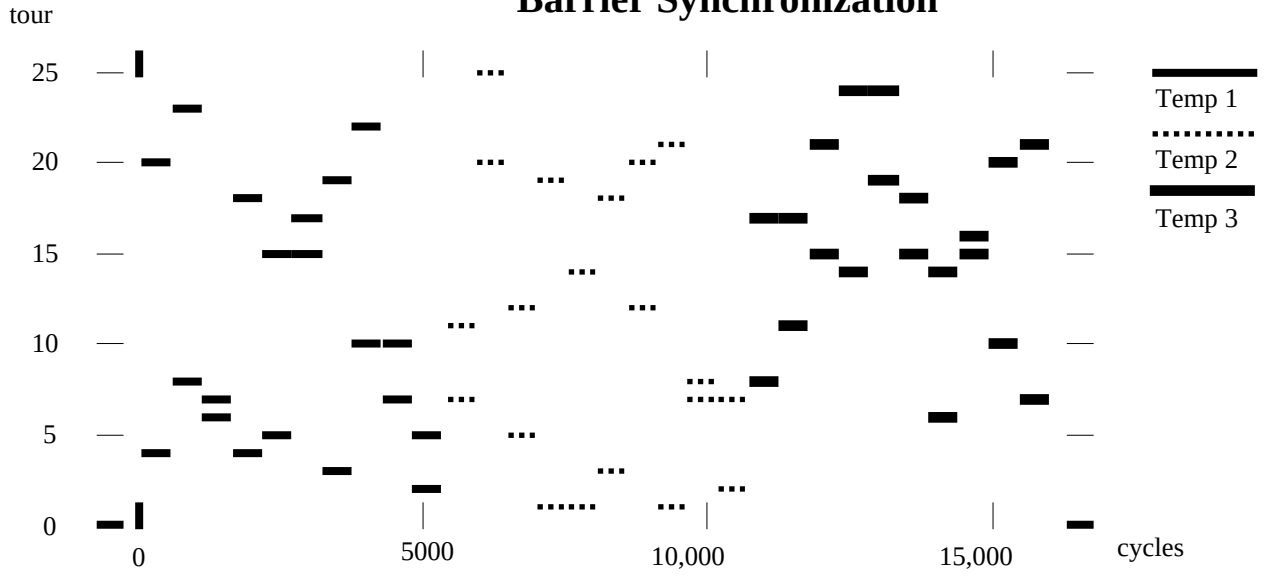Barrier Synchronization