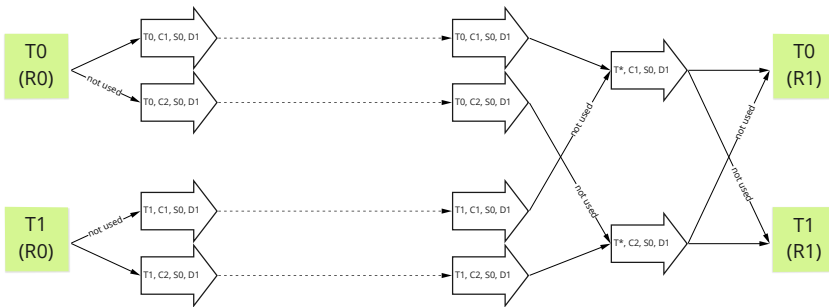


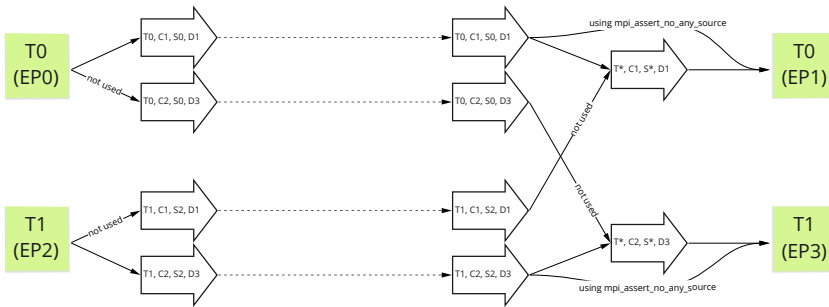
Camp A: lock at sender records sender's operation starting order, which is needed.

Camp A: per-VCI lock at sender/receiver protects VCIs from possible contention.



Camp B: no lock at sender because sender's inter-thread operation starting order does not matter.

Camp B: per-VCI lock at sender/receiver protects VCIs from possible contention.



Camp B: no lock at sender because sender's inter-thread operation starting order does not matter.

Camp B: no lock at sender/receiver unless MPI_ANY_SOURCE is used.