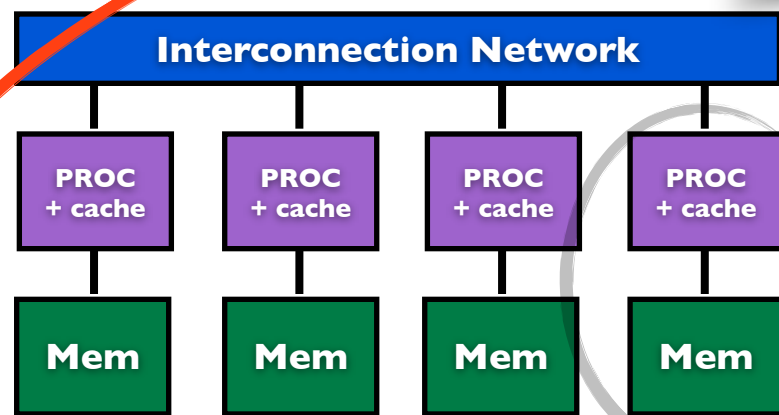


## Distributed Memory



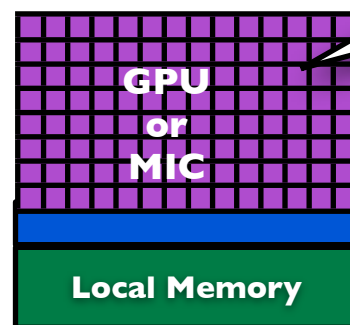
**Data Parallelism:**  
Focus on who owns what data and what communication is needed

MPI,  
Sockets

mpir, pbdMPI, Sockets

**Simple Task Parallelism:**  
Same Task on Block of data

## Co-Processor



GPU: Graphical Processing Unit

MIC: Many Integrated Core

CUDA,  
OpenCL

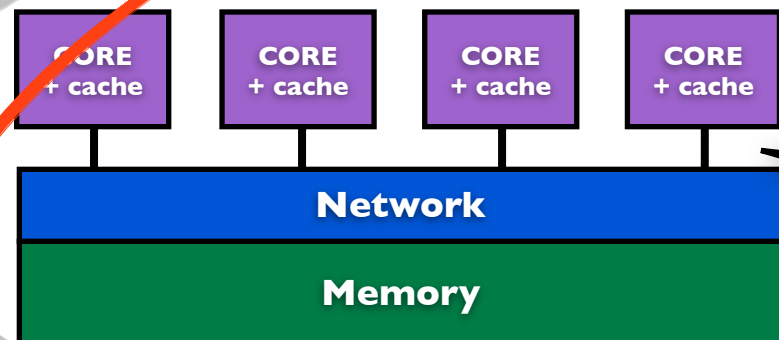
OpenCL

OpenMP

OpenMP,  
Threads,  
fork

multicore,  
fork

## Shared Memory



**Task Parallelism:**  
Focus on who does what task