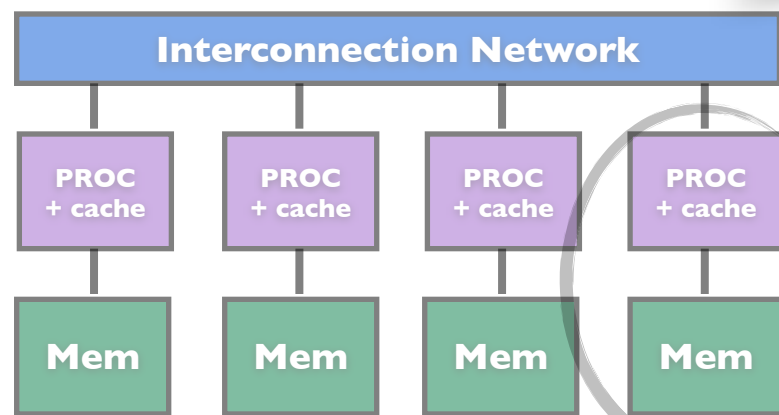


virtual shared memory: nws, Rdsm 

## Distributed Memory



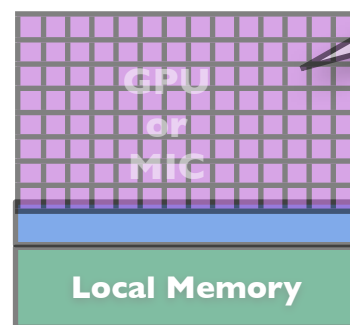
**Data Parallelism:**  
Focus on who owns what data and what communication is needed

MPI,  
Sockets

Rmpi,  
pbdMPI,   
Sockets

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

## Co-Processor



GPU: Graphical Processing Unit

MIC: Many Integrated Core

CUDA,  
OpenCL

OpenCL 

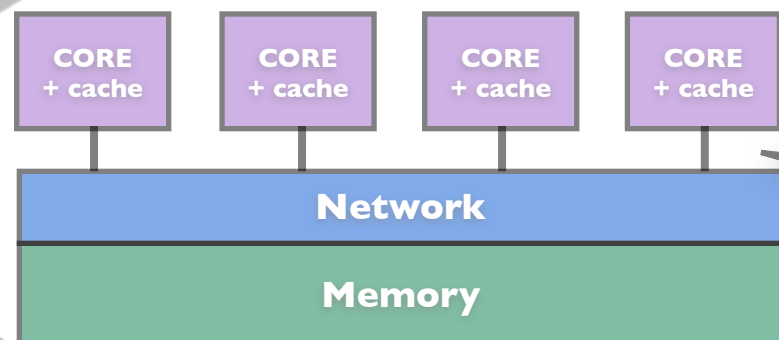
OpenMP

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

OpenMP,  
Threads,  
fork

multicore,  
fork 

## Shared Memory



snow + multicore = parallel 