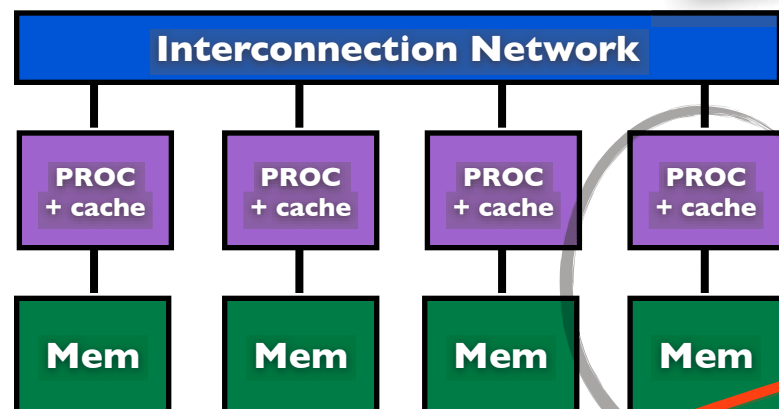


virtual shared memory: nws, Rdsm 

## Distributed Memory

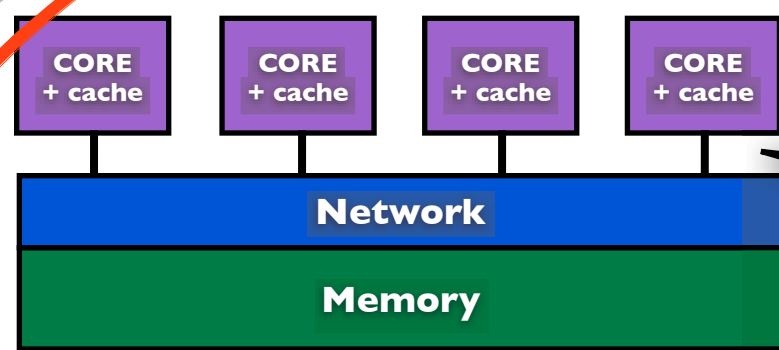


**Data Parallelism:**  
Focus on who owns what data and what communication is needed

MPI,  
Sockets

Rmpi,  
pbdMPI,   
Sockets

## Shared Memory



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

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

CUDA,  
OpenCL

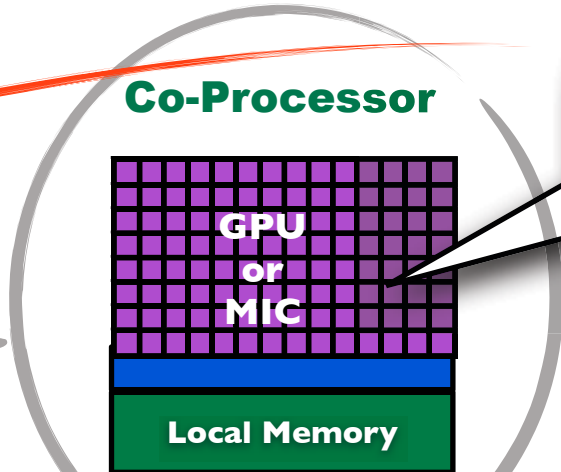
OpenCL 

OpenMP

OpenMP,  
Threads,  
fork

multicore,  
fork 

snow + multicore = parallel 



GPU: Graphical Processing Unit  
MIC: Many Integrated Core