

Focus on who owns what data and what communication is needed

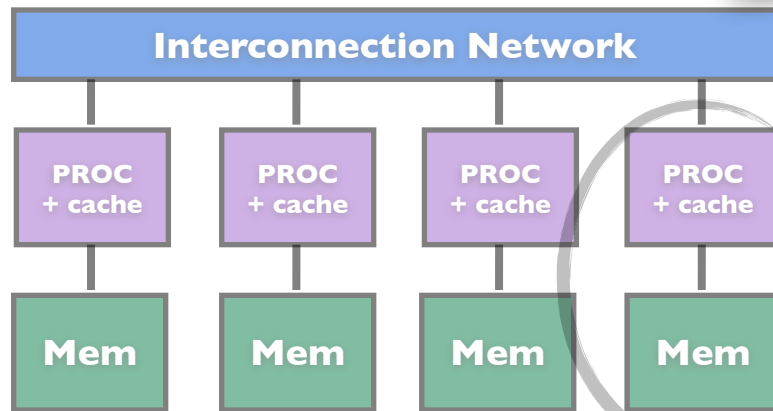
Sockets
MPI
HADOOP

snow
Rmpi
pbdMPI



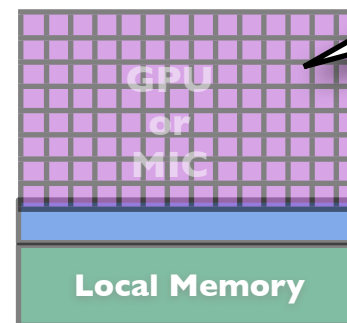
RHIVE

Distributed Memory



Same Task on Blocks of data

Co-Processor



GPU: Graphical Processing Unit
MIC: Many Integrated Core

CUDA
OpenCL
OpenACC

.C
.Call
Rcpp
OpenCL
inline

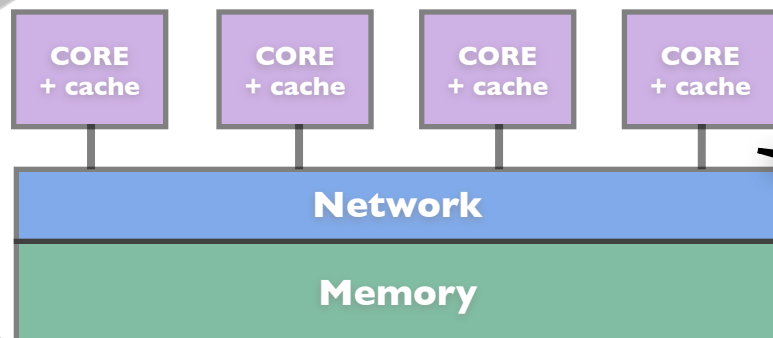
OpenMP
OpenACC

OpenMP
Threads
fork

multicore
(fork)



Shared Memory



Focus on which tasks can be parallel



snow + multicore = parallel