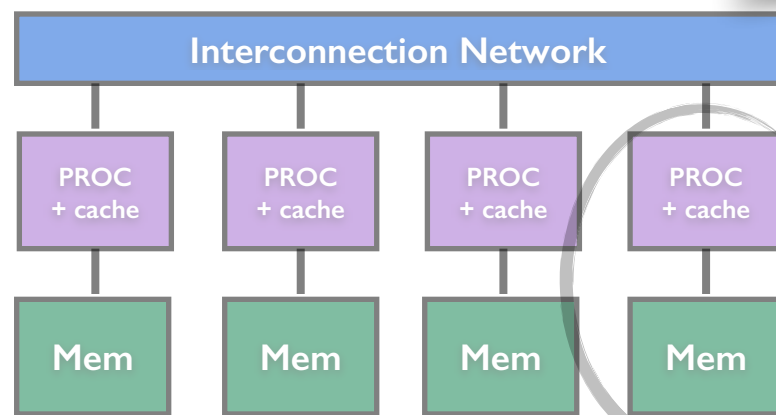


Distributed Memory



Default is parallel (SPMD): what is my data and what do I need from others?

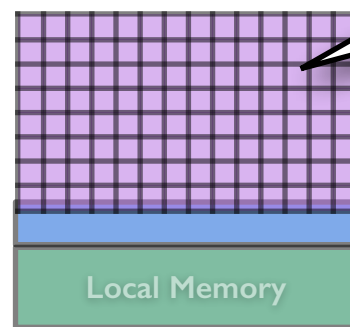
Sockets
MPI
Hadoop

snow
Rmpi
pbdMPI

RHadoop

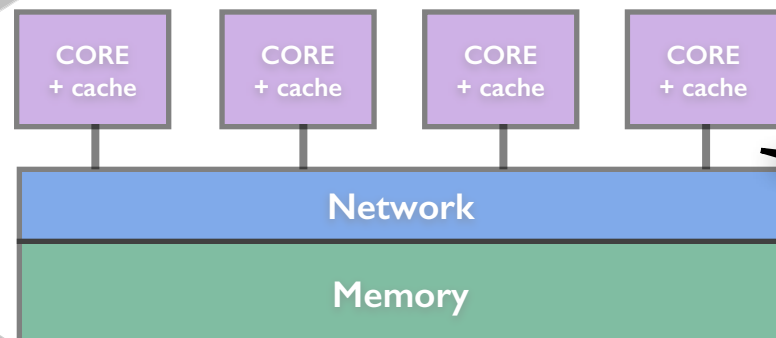
Offload data and tasks.
We are slow but many!

Co-Processor



GPU: Graphical Processing Unit
MIC: Many Integrated Core

Shared Memory



Default is serial: which tasks can the compiler make parallel?

CUDA
OpenCL
OpenACC
OpenMP
Pthreads

fork

Foreign Language Interfaces:
.C
.Call
Rcpp
OpenCL
inline
.
.
.



snow + multicore = parallel



multicore