

Parallel Computing

Shared Memory

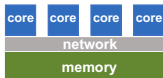
Introduction

1. Parallel Computing on Multiple Cores
 - a. Architecture Review
 - b. parallel package (multicore)

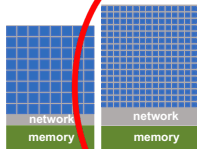
Three Flavors of Parallel Hardware

Your laptop

Shared Memory
Multicore Processor

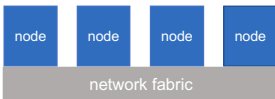


Shared Memory
Co-Processor



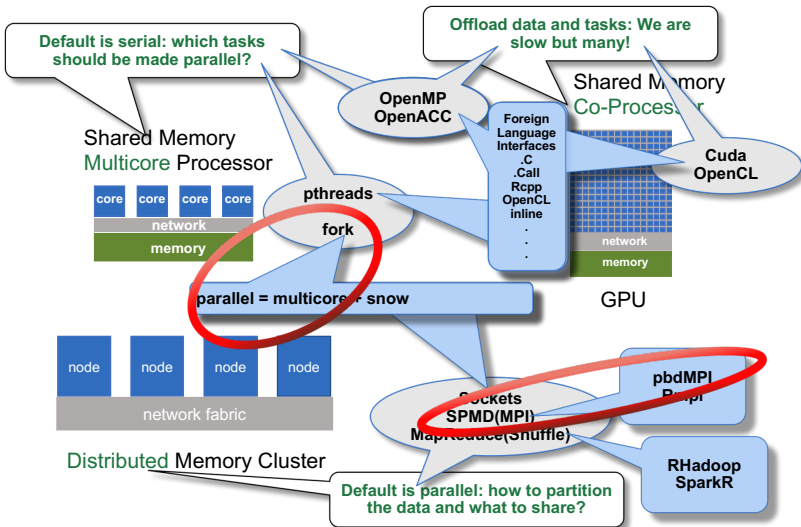
Manycore

GPU



Distributed Memory Cluster

We Cover: multicore(parallel) and pbdMPI



Random Forest Example for multicore

... Demonstration ...
(See `rf_mc.Rmd`)