Parallel Computing

Distributed Memory

Introduction

- 1. Parallel Computing on Multiple Nodes
 - a. Cluster Architecture and Software Review
 - b. Single Program Multiple Data (SPMD)
 - c. pbdMPI: A High-Level Interface to MPI
 - d. Random Forest Example with pbdMPI
- 2. Using Scalable Matrix Libraries
 - ▶ Brief Overview of BLAS, PBLAS, LAPACK, and ScaLAPACK
 - pbdDMAT: Distributed Matrix Computing
- 3. pbdCS: Client-Server Interactive SPMD

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