CS336

Tuesday November 18, 2008
Parallel Computing

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- Inter-processor communication
- Possibly, shared memory
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Distributed Computing

In distributed computing ... we run multiple independent computations on separate computers, each with its own memory. Years ago I dubbed this very common and important kind of parallelism “embarrassingly parallel” because no new computer science is required. In most cases, a single program is run many times with different parameters or different random number seeds.

-- Cleve Moler
Distributed Computing

- Server-Client
- Peer-to-Peer
- 3-Tier (common for web apps – separates presentation from ?? from data)
- Tightly Coupled (e.g. a cluster)
- Distributed Objects
Java RMI

Java Remote Method Invocation (RMI) system allows an object running in one Java virtual machine to invoke methods on an object running in another Java virtual machine.

http://java.sun.com/docs/books/tutorials/rmi/overview.html
Java RMI

http://java.sun.com/j2se/1.5.0/docs/guide/rmi/hello/hello-world.html

http://java.sun.com/docs/books/tutorial/rmi/overview.html