What is **Coherence**?

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Oracle Coherence

- Development Library
  - Pure Java 1.4.2+
  - Pure .Net 1.1 and 2.0 (client)
  - No Third-Party Dependencies
  - No Open Source Dependencies
  - Proprietary Network Stack (Peer-To-Peer model)

- Other Libraries Support…
  - Database and File System Integration
  - Top Link and Hibernate
  - Http Session Management
  - Spring, Groovy*

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- Provides…
  - Container-less <u>Clustering</u> of Java Processes
  - <u>Data Structures</u> to manage Data (XML-free) across a Cluster
  - Real-Time <u>Event</u> Observation – Listener Pattern
  - Materialized Views of Data – Invariant views (no-polling)
  - Parallel <u>Queries</u> and <u>Aggregation</u> – Object-based Queries
  - Parallel <u>Processing</u> – Data and Processing Affinity
  - RemoteException Free Distributed Computing <u>Services</u>
  - Clustered <u>JMX</u>
  - <u>MAN</u> + <u>WAN</u> Data and Processing Services
  - Client + Data Grid Deployment Models
  - Point-To-Point Communication Layer

Oracle Coherence

- Uses…
  - Caching Objects in the Application Tier
  - Relieve load on lower-tier systems
    - Databases, Mainframes, Web Servers, Web Services
  - Managing Object state in the Application Tier
  - Http Session Management (scale out)
  - Temporary System of Record for Extreme Transaction Processing
  - Caching Web Content