

ORACLE



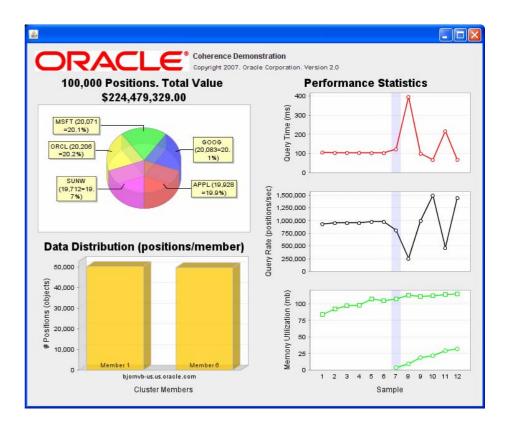
Light Demo

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Demo

Order Book Management

Show in real time what the state of the stock portfolio is (value / number of shares per value) by running a parallel query and parallel aggregation of data distributed in memory in a Oracle Coherence Data Grid.



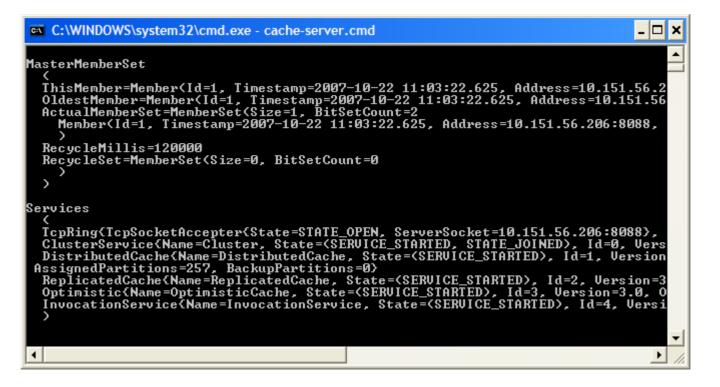
Prerequisites

- Java 5 in path
- More than one machine if showing scalability is the purpose



Startup

Start one server ("cache-server.cmd")





Startup contd.

Load data ("create-positions.cmd")

C:\WINDOWS\system32\cmd.exe

C:\demos\coherence-swing-demo-2.0>set CLASSPATH=;classes;lib\coherence-3.3.0-pat ib\jfreechart-1.0.5.jar;lib\swing-layout-1.0.jar

C:\demos\coherence-swing-demo-2.0>java -Xmx128m -Xms128m -Dtangosol.coherence.lo ce.swingdemo.CreatePositions

2007-10-22 11:06:06.046 Oracle Coherence 3.3/387p3 <Info> <thread=main, member=n e-swing-demo-2.0/lib/coherence-3.3.0.jar!/tangosol-coherence.xml" 2007-10-22 11:06:06.046 Oracle Coherence 3.3/387p3 <Info> <thread=main, member=n ing-demo-2.0/lib/coherence-3.3.0.jar!/tangosol-coherence-override-dev.xml"

Oracle Coherence Version 3.3/387p3 Grid Edition: Development mode Copyright (c) 2000-2007 Oracle. All rights reserved.

2007-10-22 11:06:06.250 Oracle Coherence GE 3.3/387p3 <Info> <thread=main, membe wing-demo-2.0/lib/coherence-3.3.0.jar!/coherence-cache-config.xml" 2007-10-22 11:06:07.109 Oracle Coherence GE 3.3/387p3 <Info> <thread=Cluster, me 6.206:8089, MachineId=42446, Location=process:47360bjornvb-us, Edition=Grid Edit ber<Id=1, Timestamp=2007-10-22 11:03:22.625, Address=10.151.56.206:8088, Machine nt, CpuCount=2, SocketCount=1> Adding Indexes... Creating 100000 Positions... Creation Complete! <Cache contains 100000 positions>

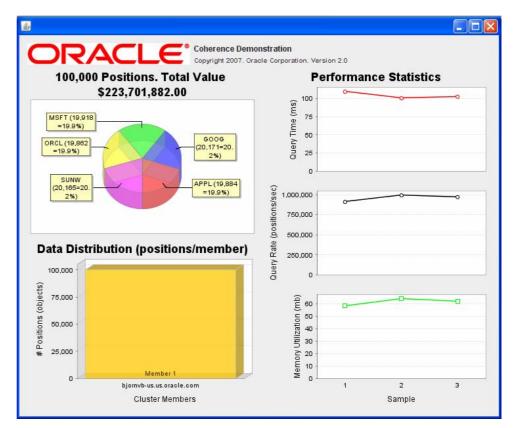
C:\demos\coherence-swing-demo-2.0>_



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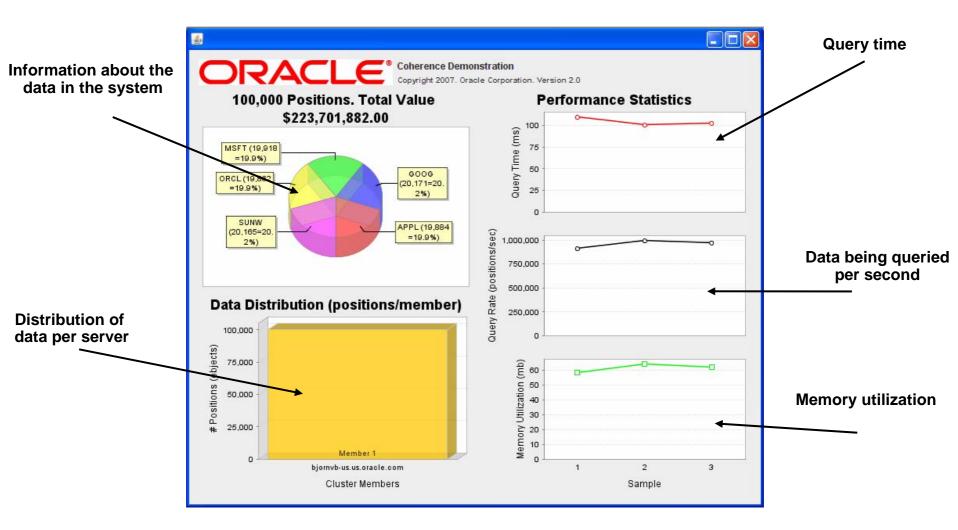
Startup contd.

 Start demo ("swing-demo.cmd")

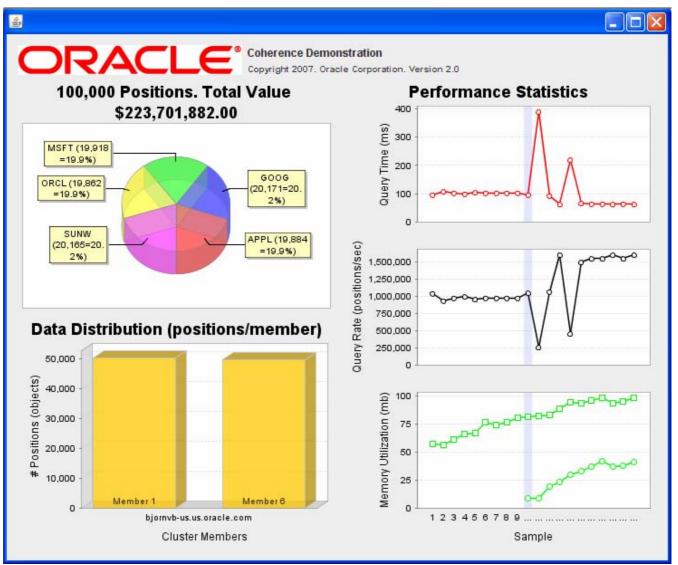




The demo application

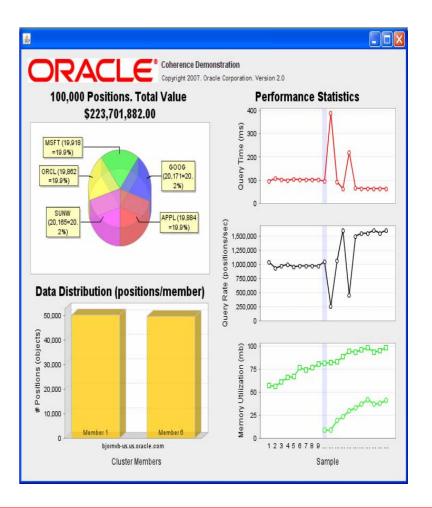


Start another server

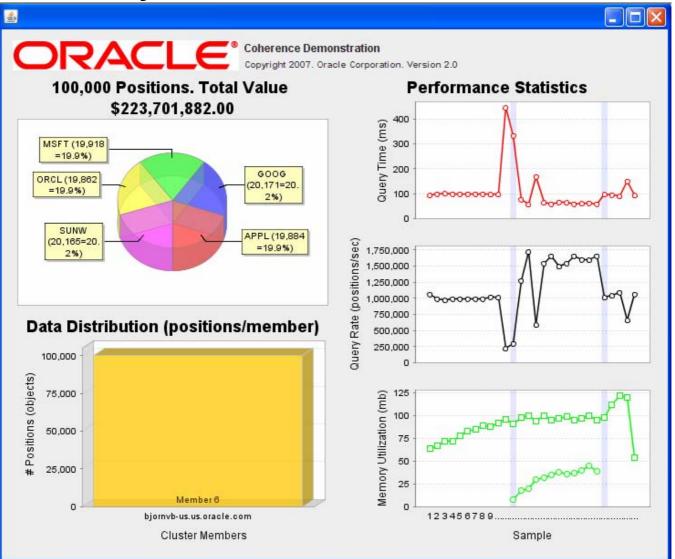


Important points

- Data automatically redistributed to new server
- Immediately offloads other servers
- No interruption of service
- No management console to add servers
- Increased performance*

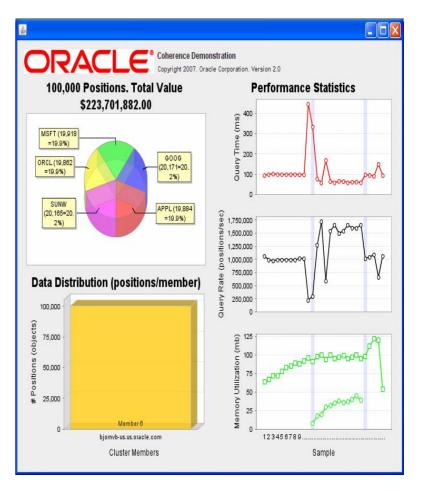


Shutdown any of the servers



Important points

- Data automatically recovered and redistributed
- No interruption of service
- No remote exceptions to catch
- Same mechanism for failure situations as for scaling down



Troubleshooting

- VPN, firewalls and other network tools may affect connectivity and performance.
- May need three servers before demo scales properly
- Run "optimize.reg" for increased performance
- Use multicast-test and datagram-test for testing network connectivity
- Test your demo before showing it to the customer!
- Production Planning and Troubleshooting section in the user guide provides valuable information



Availability of demo

- Source code and executable will be made available this week
- No need for TDS or ATC to run demo, but ATC can be helpful when multiple servers are needed.



Other demos

 Order book demo available at TDS Source code can be found at the Coherence page at <u>http://ias.us.oracle.com/</u>



When to do demos

- Swing demo works well as a part of a customer presentation
- Visualizes well how Coherence works
- Helpful to avoid POCs
 - POCs tend to have more complicated environments, but not because of Coherence

