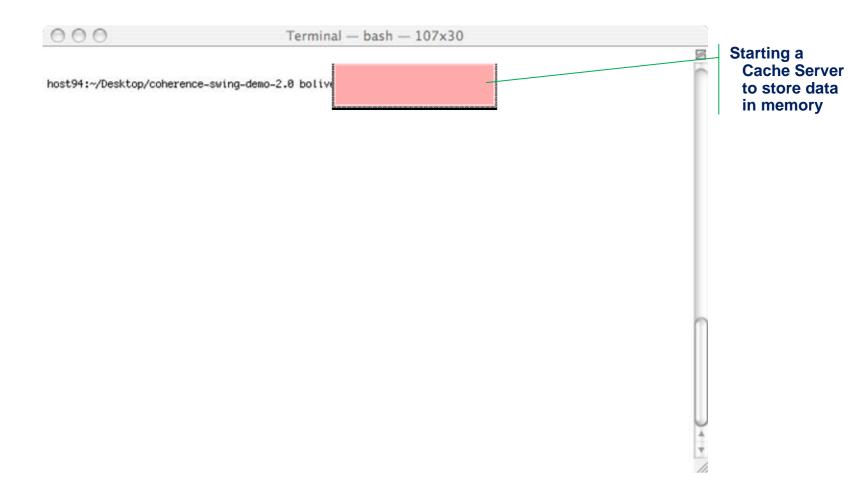


Coherence Demonstration

Starting a Cache Server (Data Management Process)

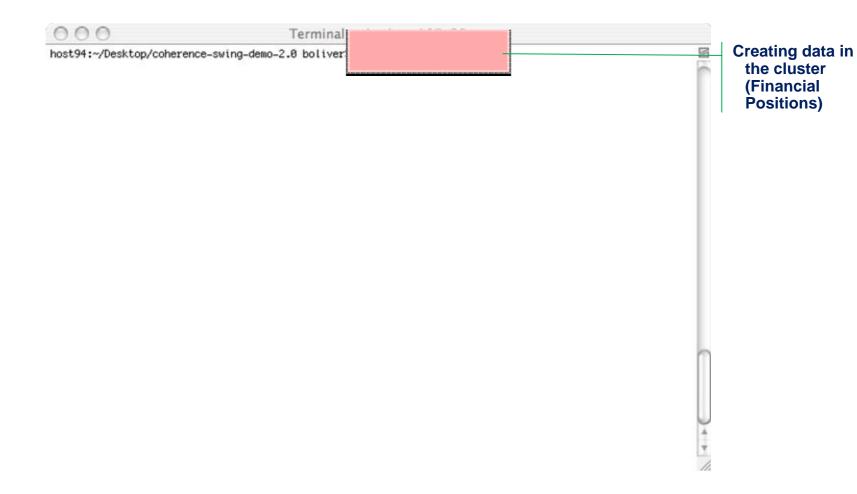


Starting a Cache Server (Data Management Process)

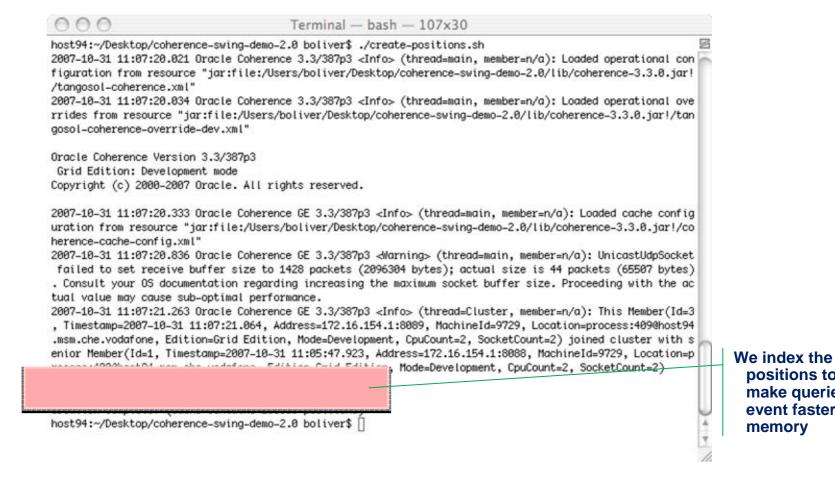
The ID of the first cluster member

```
000
                                        Terminal — java — 107x30
Group{Address=224.3.3.0, Port=33387, TTL=4}
MasterMemberSet
  ThisMe
                                   =2007-10-31 11:05:47.923, Address=172.16.154.1:8088, MachineId=9729, Loc
                                   dafone)
ation=pr
  OldestMember=Member(Id=1, Timestamp=2007-10-31 11:05:47.923, Address=172.16.154.1:8088, MachineId=9729, L
ocation=process:400@host94.msm.che.vodafone)
  ActualMemberSet=MemberSet(Size=1, BitSetCount=2
    Member(Id=1, Timestamp=2007-10-31 11:05:47.923, Address=172.16.154.1:8088, MachineId=9729, Location=pro
cess:400@host94.msm.che.vodafone)
  RecycleMillis=120000
  RecycleSet=MemberSet(Size=0, BitSetCount=0
Services
  TcpRing{TcpSocketAccepter{State=STATE_OPEN, ServerSocket=172.16.154.1:8088}, Connections=[]}
  ClusterService{Name=Cluster, State=(SERVICE_STARTED, STATE_JOINED), Id=0, Version=3.3, OldestMemberId=1}
  DistributedCache{Name=DistributedCache, State=(SERVICE_STARTED), Id=1, Version=3.2, OldestMemberId=1, Loc
alStorage=enabled, PartitionCount=257, BackupCount=1, AssignedPartitions=257, BackupPartitions=0}
  ReplicatedCache{Name=ReplicatedCache, State=(SERVICE_STARTED), Id=2, Version=3.0, OldestMemberId=1}
  Optimistic{Name=OptimisticCache, State=(SERVICE_STARTED), Id=3, Version=3.0, OldestMemberId=1}
  InvocationService{Name=InvocationService, State=(SERVICE_STARTED), Id=4, Version=3.1, OldestMemberId=1}
```

Loading Some Data into Grid (creating financial positions)

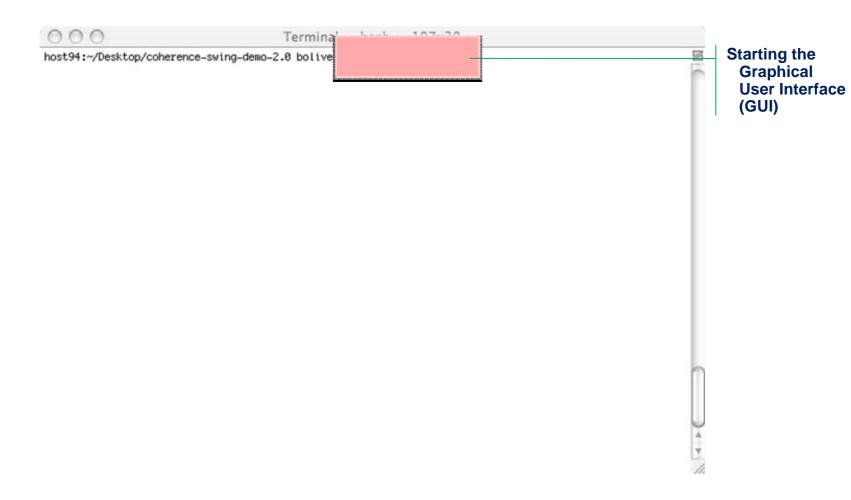


Loading Some Data into Grid (creating financial positions)

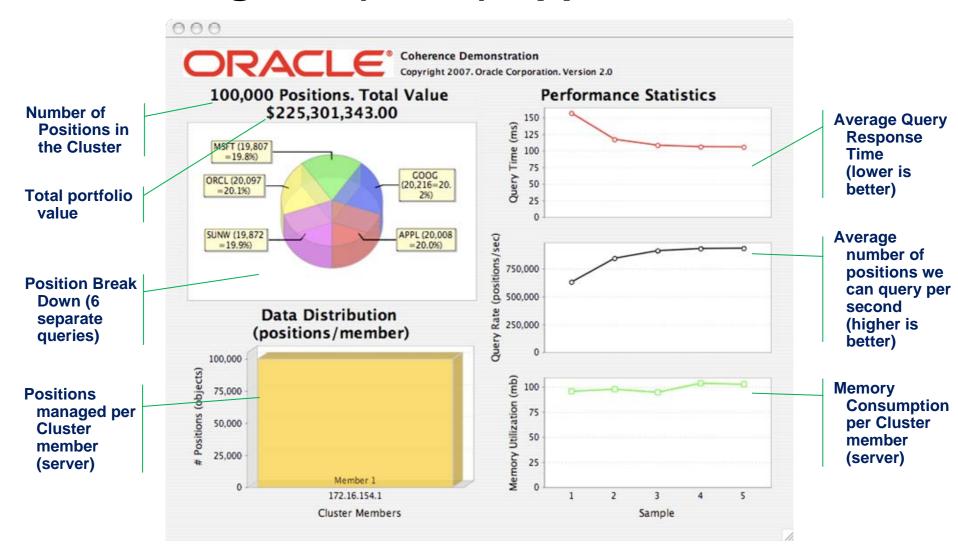


positions to make queries event faster in memory

Starting GUI (client) Application



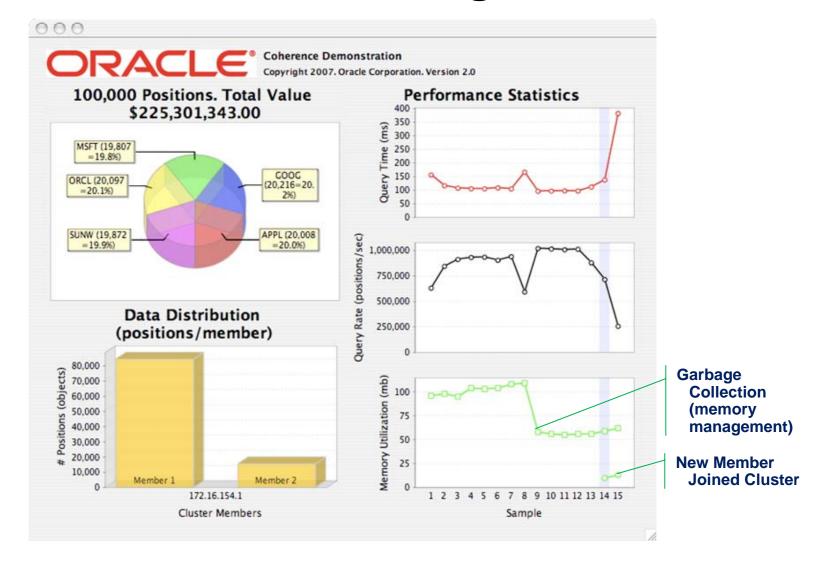
Starting GUI (client) Application



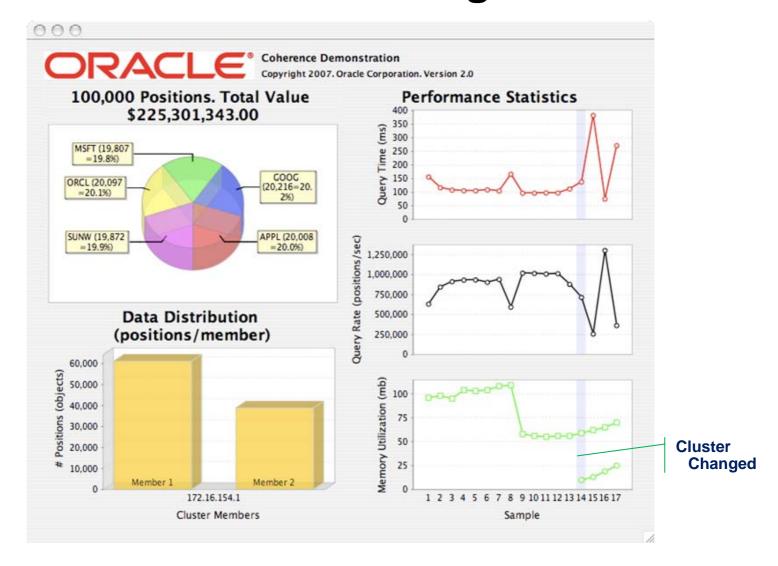
Starting another Cache Server (Data Management Process)



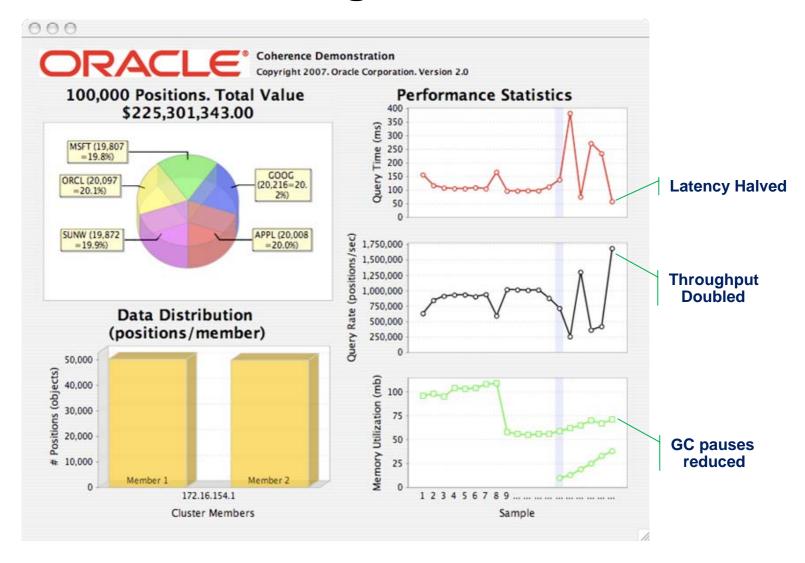
Automatic Load Balancing



Automatic Load Balancing



Data and Processing Scaled-Out



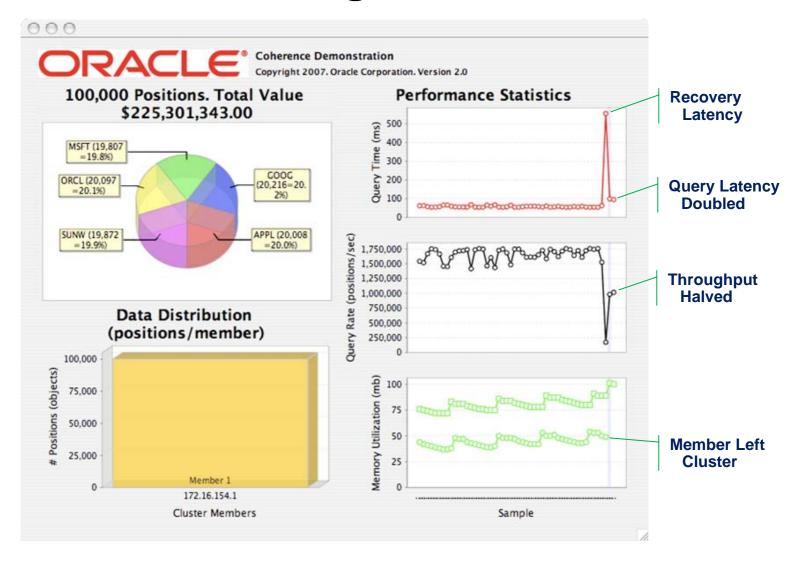
Killing a Cache Server (force data recovery)

```
Terminal - bash - 107x30
  ThisMember=Member(Id=2, Timestamp=2007-10-31 11:08:54.836, Address=172.16.154.1:8090, MachineId=9729, Loc
ation=process:416@host94.msm.che.vodafone)
  OldestMember=Member(Id=1, Timestamp=2007-10-31 11:05:47.923, Address=172.16.154.1:8088, MachineId=9729, L
ocation=process:400@host94.msm.che.vodafone)
  ActualMemberSet=MemberSet(Size=3, BitSetCount=2
    Member(Id=1, Timestamp=2007-10-31 11:05:47.923, Address=172.16.154.1:8088, MachineId=9729. Location=pro
cess:400@host94.msm.che.vodafone)
    Member(Id=2, Timestamp=2007-10-31 11:08:54.836, Address=172.16.154.1:8090, MachineId=9729, Location=pro
cess:416@host94.msm.che.vodafone)
    Member(Id=4, Timestamp=2007-10-31 11:08:04.635, Address=172.16.154.1:8089, MachineId=9729, Location=pro
cess:411@host94.msm.che.vodafone)
  RecycleMillis=120000
  RecycleSet=MemberSet(Size=0, BitSetCount=0
Services
  TcpRing{TcpSocketAccepter{State=STATE_OPEN, ServerSocket=172.16.154.1:8090}, Connections=[1]}
  ClusterService{Name=Cluster, State=(SERVICE_STARTED, STATE_JOINED), Id=0, Version=3.3, OldestMemberId=1}
  DistributedCache{Name=DistributedCache, State=(SERVICE_STARTED), Id=1, Version=3.2, OldestMemberId=1, Loc
alStorage=enabled, PartitionCount=257, BackupCount=1, AssignedPartitions=0, BackupPartitions=0}
  ReplicatedCache{Name=ReplicatedCache, State=(SERVICE_STARTED), Id=2, Version=3.0, OldestMemberId=1}
  Optimistic{Name=OptimisticCache, State=(SERVICE_STARTED), Id=3, Version=3.0, OldestMemberId=1}
  InvocationService{Name=InvocationService, State=(SERVICE_STARTED), Id=4, Version=3.1, OldestMemberId=1}
^Chost94:~/Desktop/coherence-swing-demo-2.0 boliver$
```

Brutal ^C to kill Cache

Server

Data and Processing Scaled-Back



Continuous Availability

