

## **ProLiant Server Solution**



Compaq Korea



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- ProLiant Server and Software
- ProLiant Leadership and Market share
- Compaq and Oracle Alliance
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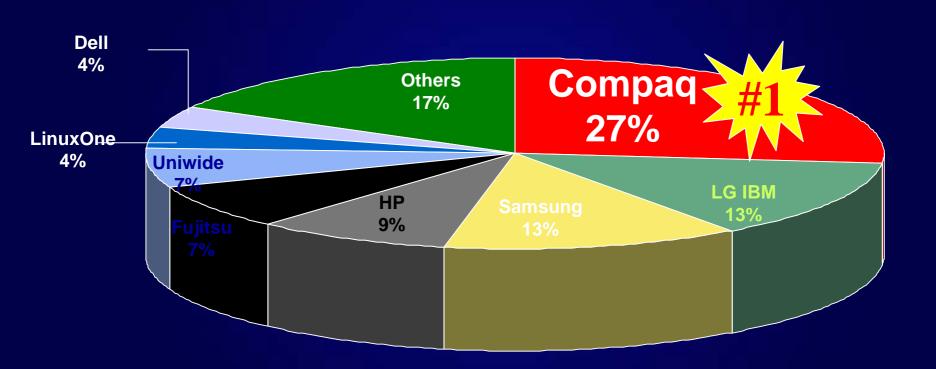
# ProLiant™ market leadership#1 Worldwide#1 Korea

Density-Optimized at 35% 1,2 Processor at 26% 4/6 Processor at 32% 8 Processor at 47%

IDC Server Tracker 3Q01, SIAS Units



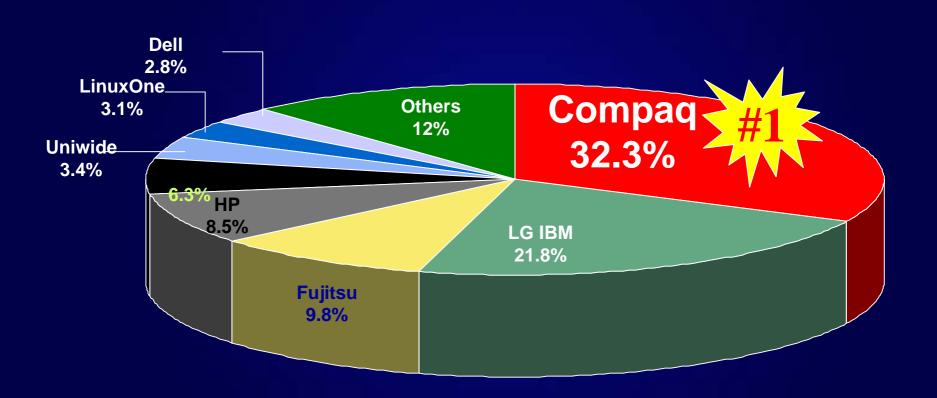
#### **2001 PC-Server Korea Market Leadership**



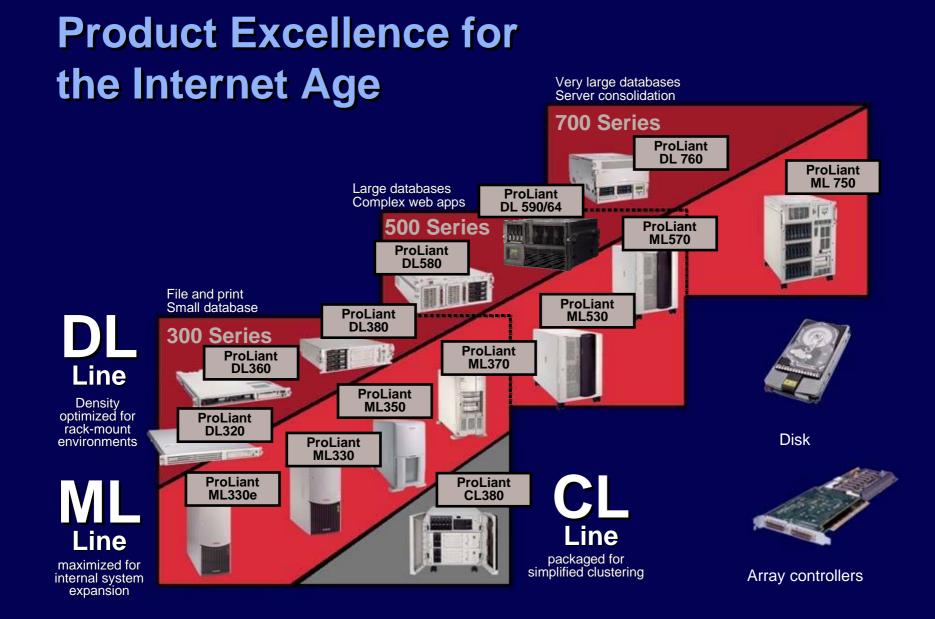
Source : IDC 2002



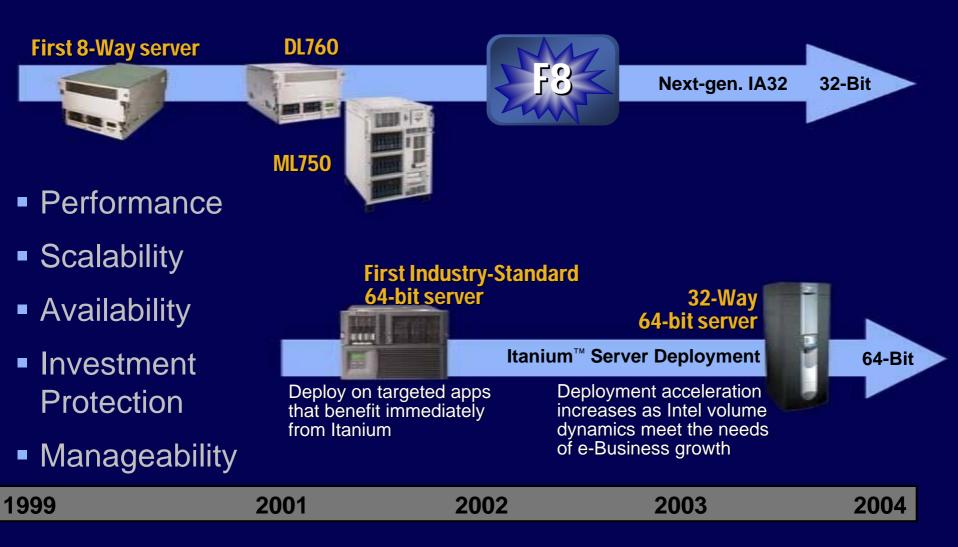
#### **2001 PC-Server Korea Market Leadership**



Source : IDC 2002



#### **ProLiant Delivers on Scalable Enterprise Data Center Servers**



# The next phase of 32-bit ProLiant 8-Way

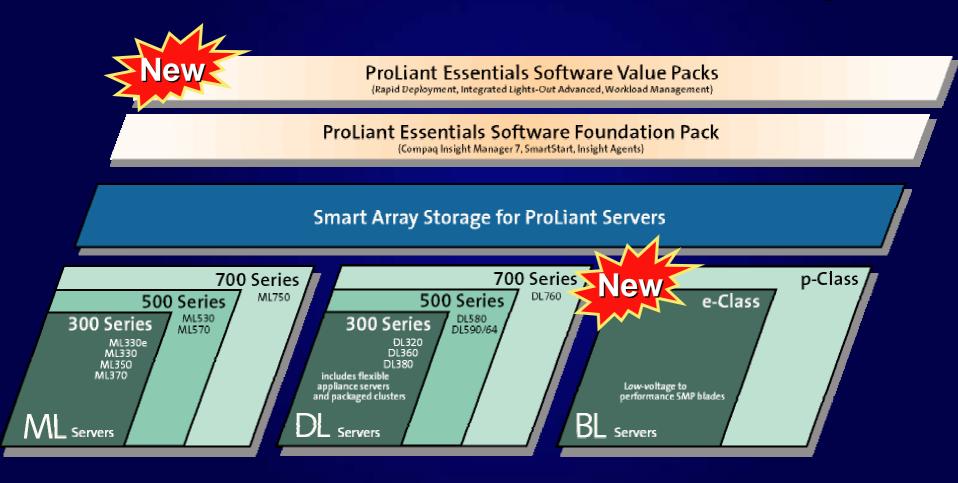


- Unparalleled 32-bit performance
- Unparalleled availability
- Unparalleled investment protection
- Fosters 8-Way
- Hot Plug RAID memory
- PCI-X
- Upgrade Kit

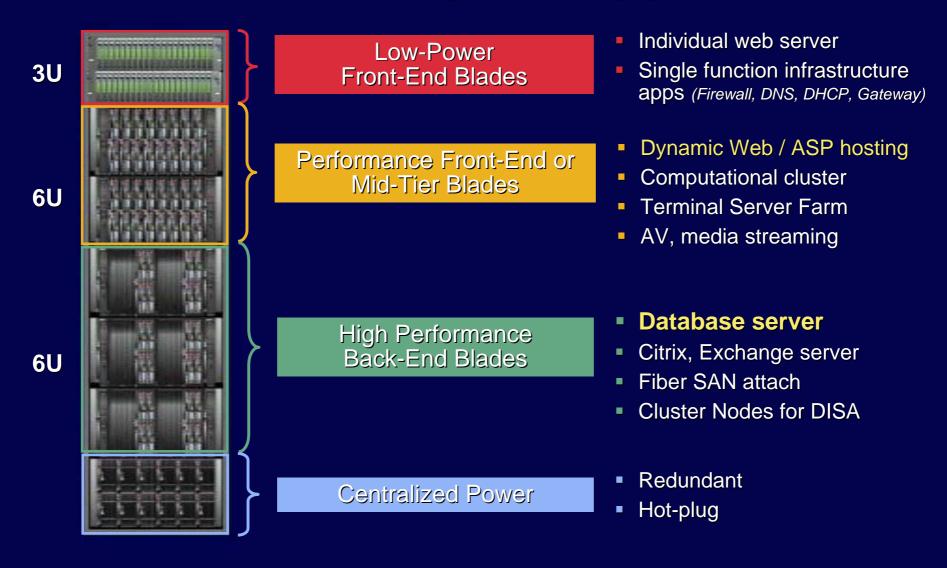




#### **ProLiant : Server, Software and Storage**

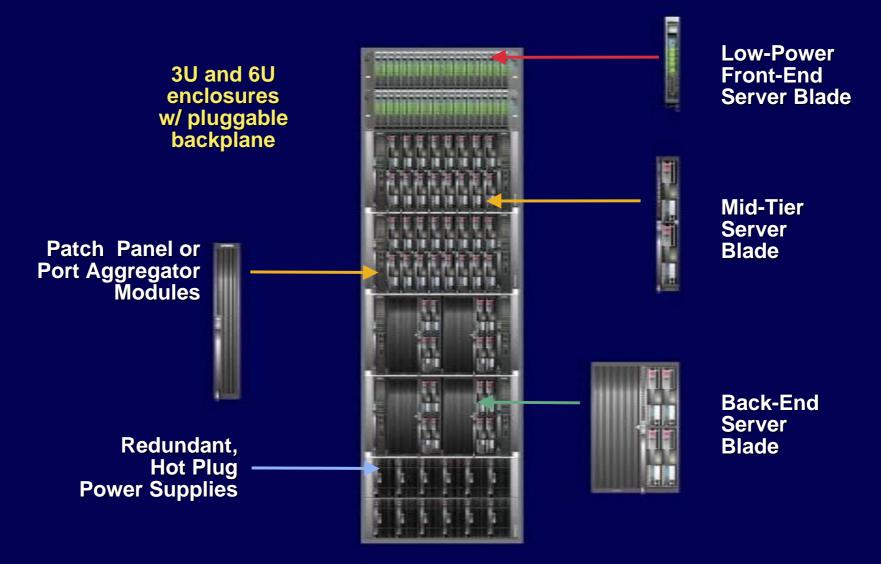


#### ProLiant BL e & BL p Class (1)



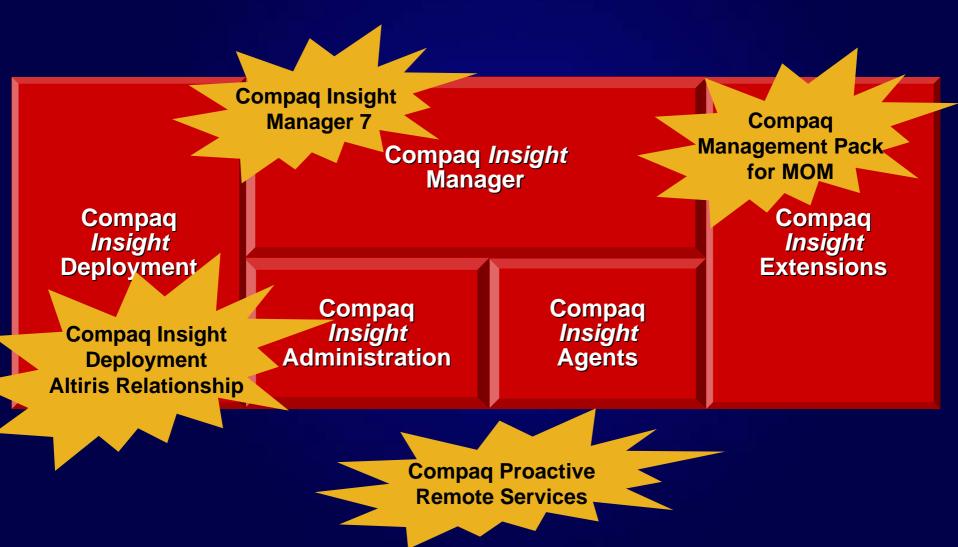


#### ProLiant BL e & BL p Class (2)





#### **Compaq Insight Management Suite**





#### **Solutions Market Leadership**



50% of IIS-based websites are hosted on Compaq



50% of WindowsNT installations on Compaq



#1 platform for Linux servers, 22% share



42% of WindowsNT licenses on Compaq



#1 Server Platform for Lotus Domino, 42% share

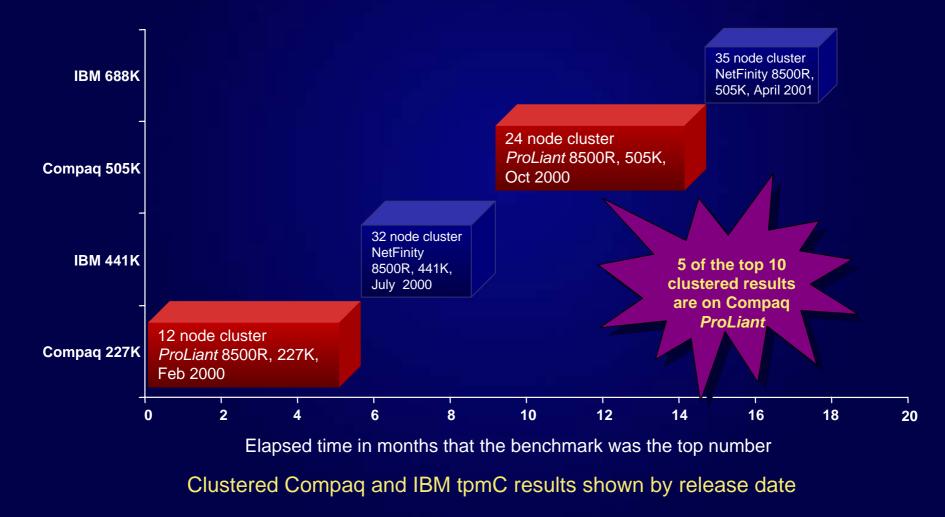


40+ e-Marketplaces on Compaq Servers



66% of NT license revenue on Compaq platforms

#### Database Performance Leadership tpm-C Clustered Benchmarks



## **Application Performance Leadership**

- Compaq ProLiant servers are the # 1 performance leaders for:
- SAP R/3 with SQL Server on 8-Way
- Peoplesoft: CRM, Financials, HR, and eBill with SQL Server
- JD Edwards with SQL Server
- Oracle Applications on 2-node OPS
- Lotus Domino on NT
- Microsoft Exchange 2000 on 1P, 2P and 4P

Compaq's has deep expertise on the entire solution stack

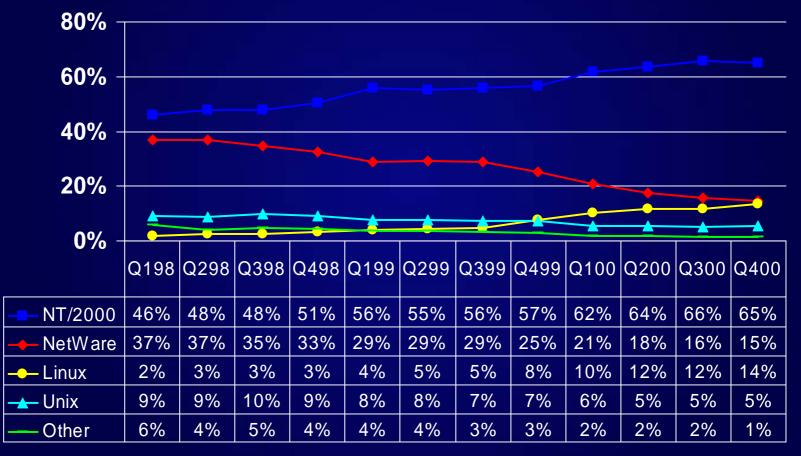


Oracle

Microsof

ofus

#### OS Share of Worldwide Intel Server Market (units)



Source: Q400 IDC Server Market Tracker



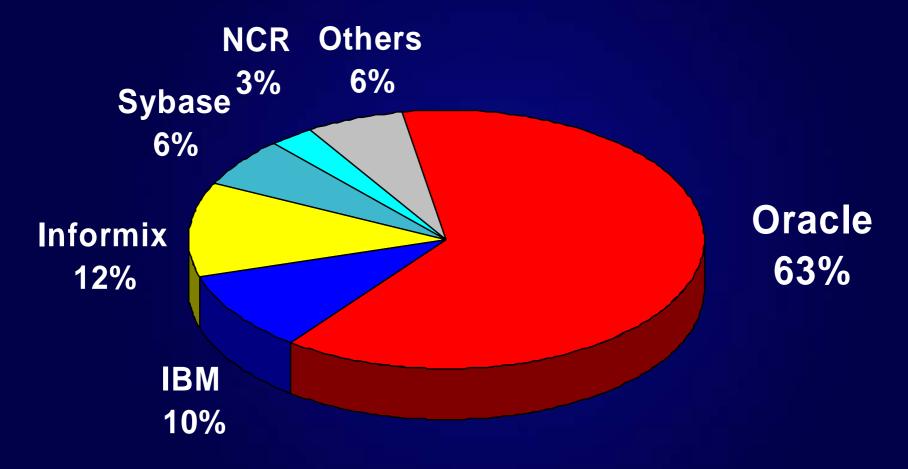
#### **NT OS Worldwide Units Market Share**



Source: IDC Quarterly Server Tracker Q400



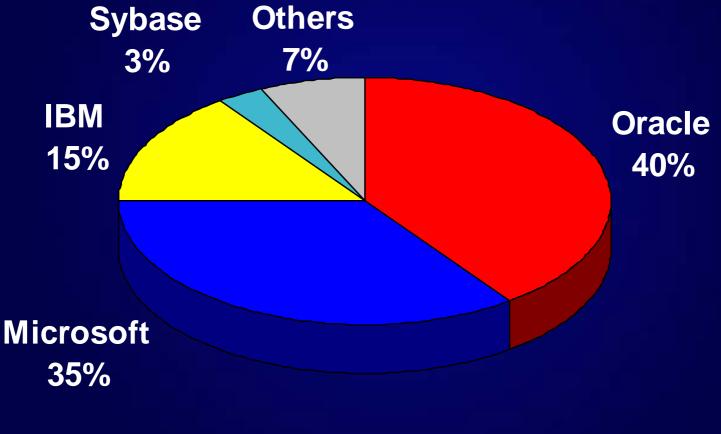
#### **Oracle Market Share on UNIX Platform**



Source: Dataquest, May 2000



#### **Oracle Market Share on Windows Platform**



Source: Dataquest, May 2000

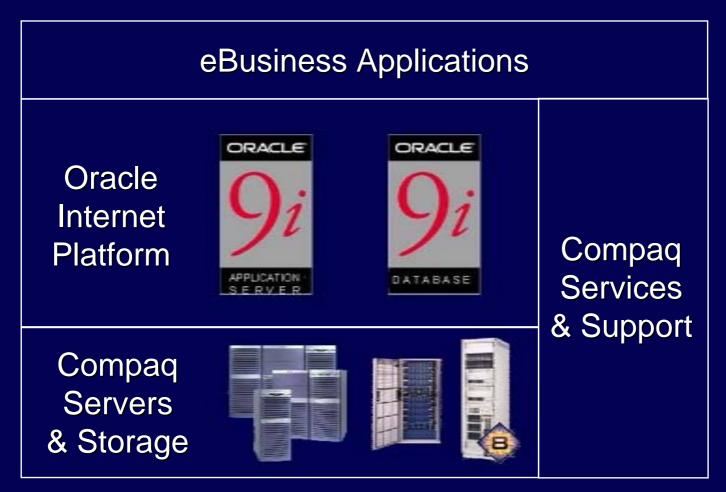
## **Compaq and Oracle**

- A Global Alliance for 25 Years
- 90% of Fortune 500 run Oracle on Compaq
- 42% of Oracle on Windows NT is on Compaq
- ActiveAnswers sizing tools for Oracle Database
- More Oracle-certified configurations with Oracle Parallel Server than any other hardware manufacturer



- Compaq is the largest Oracle Tier 1 Platform Vendor
- Online test drive of Oracle 8i database, Oracle 9iAS, and Oracle Portal at: <u>http://www.testdrive.compaq.com/software/#oracle8i</u>

# An Integrated Offering: Compaq and Oracle eBusiness Infrastructure

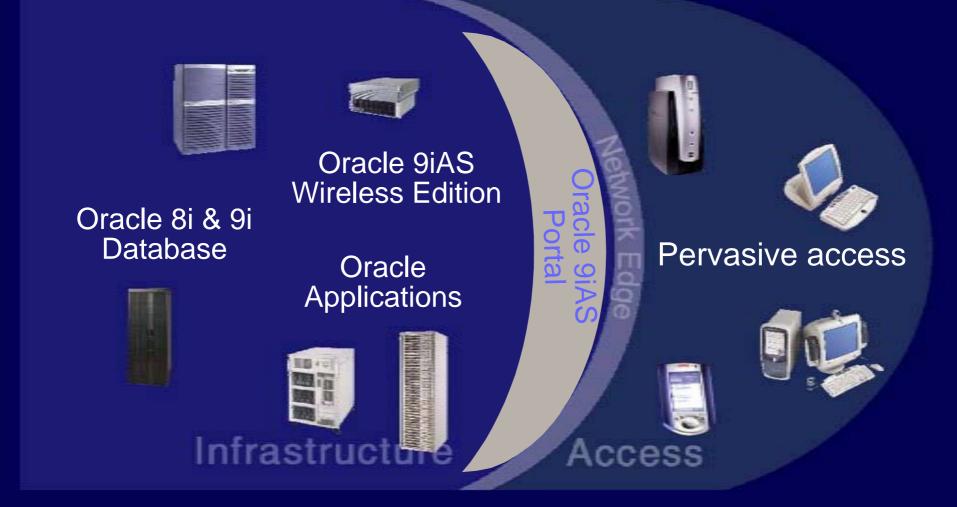


#### **Depth and Breadth of the Product Line**

Simulation & data mining Home access Enterprise data store Mobile access Content **Open SAN** delivery Office access Point of sale Database & application servers Access

**Global Services and Solutions** 

#### **Compaq Strategy and Oracle**



#### **Proof Points**

 #1 in high performance technical computing
 6 of 7 supercomputing wins

Leader in high availability 14 of 15 largest exchanges #1 in SANs deployed worldwide in 2000

#1 market share in Web servers

PCs/Notebooks Thin Clients Pocket PCs

Compaq servers control 65% of the world's electricity

VersMarket leader in Windowsof the<br/>ricity2000 deploymentof the<br/>ricity60% market share with<br/>8-way servers

#### 38,000 services professionals worldwide



- **Compaq Advantages**
- Engineering excellence
- Depth and breadth of the product line
- Best-in-class partnerships
- Broadest market reach



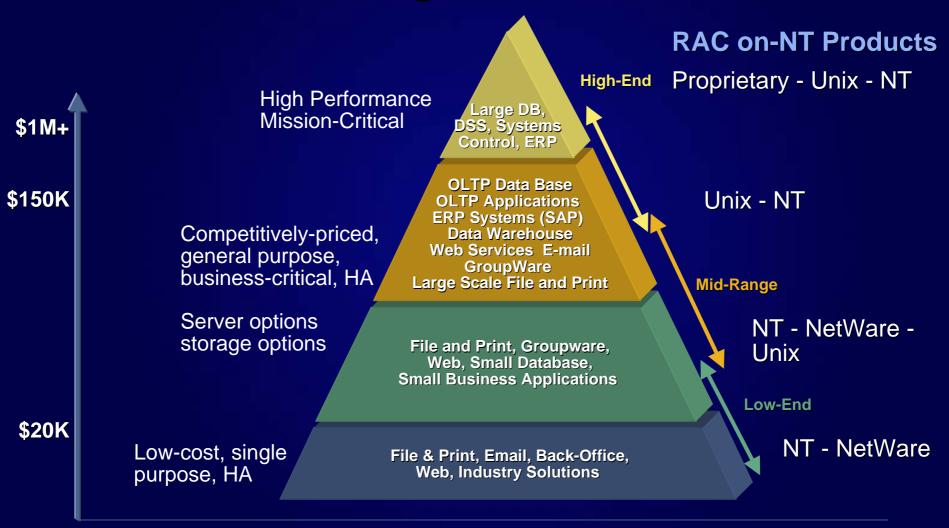
## Compaq's Parallel Database Clusters

#### Oracle Parallel Server Target Applications

- Data warehouses
- Decision support systems
- Custom database applications
- Selected packaged applications



#### **Cluster Market Segmentation**



#### **Positioning NT Cluster Solutions**

- PDC/O5000 Mission Critical Availability and Scalability
  - 2 to 6 nodes Parallel Database Cluster based on Oracle8i and Oracle9i
  - Concurrent multi-node access to shared data on a No-Single-Point-Of-Failure StorageWorks MA8000/EMA12000 or RA8000/ESA12000 system
  - Application scalability across nodes and mission critical storage solution
- PDC/O2000 Price Performance Scalable Database Cluster
  - 2 to 6 nodes Parallel Database Cluster for Oracle8i and Oracle9i
  - Concurrent multi-node access to shared Fiber Channel Storage system
  - Support for entry level and high end ProLiant servers for full range of OPS configurations
  - High availability and application scalability across nodes
- HA/F500 and HA/F100
  - Microsoft Cluster Server based two node high availability clustering for general purpose application availability
  - Full range of storage systems RA8000/ESA12000 and Compaq Fibre channel
  - Availability, Performance, Capacity, Active / Active Scalability

#### What Is the Compaq PDC Cluster?

- 2 to 6 Node Clusters certified for Oracle8i Parallel Server and Oracle9i RAC support
- Select ProLiant Servers
- Windows NT, Windows 2000 support
- NSPoF RA4000/41000 or RA8000/ESA120000 or MA8000/ESA12000
   Fiber Channel Storage System
- Compaq Cluster Kit Containing:
  - Compaq Redundancy Software
  - Comprehensive documentation
- \* See Linux Program for Details
- URL: http://www.compaq.com/solutions/enterprise/highavailability.html

**ProLiant Servers** 

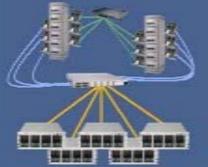
Multiple FC Loops support Terabytes of available storage

#### Compaq's Parallel Database Cluster Strategy

- Utilize industry standard hardware components for optimal price performance
- Offer a targeted selection of certified configurations to satisfy user requirements
- Cooperative development with Oracle to ensure tight integration
- Integrate proven, value-add, hardware and software components after thorough testing

#### **Compaq PDC Cluster Family**

#### PDC/01000



- 2 to 6 Node Clusters Select ProLiant Servers
- WNT and W2K Support
- Compaq RA4000/RA4100 Fiber Channel Storage System with single I/O path
- Compaq Cluster Kit

#### PDC/02000



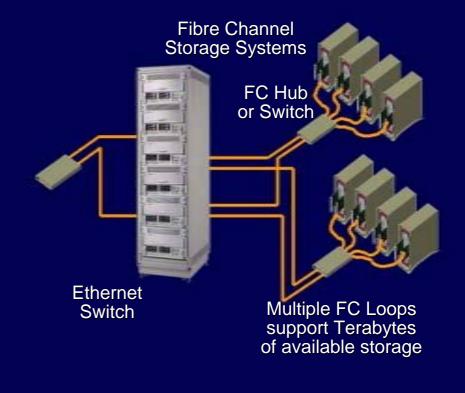
- 2 to 6 Node Clusters
- Select ProLiant Servers
- WNT and W2K Support
- Compaq RA4000/RA4100 Fiber Channel Storage System with multiple redundant I/O paths
- Compaq Cluster Kit

# PDC/05000

- 2 to 6 Node Clusters
- Select ProLiant Servers
- WNT and W2K Support
- NSPoF RA800/ESA12000 or MA8000/EMA12000 Fiber Channel Storage with multiple redundant I/O paths
- Compaq Cluster Kit

#### **PDC/O2000 Product Description**

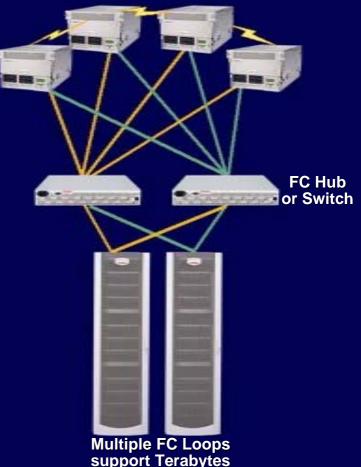
- 2 to 6 Node Clusters certified for Oracle 8i Parallel Server and Oracle9i Real Application Cluster
- Select ProLiant Servers
- NSPoF RA4000/Ra4100 Fiber Channel Storage with multiple redundant path support
- Compaq Cluster Kit including:
  - StorageWorks Secure Path "multi-path" software
  - Compaq installation tools
  - Installation and Administration Guide



#### **PDC/O5000 Product Description**

- 2 to 6 Node Clusters certified for Oracle 8i Parallel Server and Oracle9i Real Application Cluster
- Select ProLiant Servers
- RA8000/ESA12000 or MA8000/EMA12000 Fiber Channel Storage System with Multiple redundant path support
- Compaq Cluster Kit including:
  - StorageWorks Secure Path "multi-path" software
  - Compaq installation tools
  - Installation and Administration Guide

Ethernet Cluster Interconnect



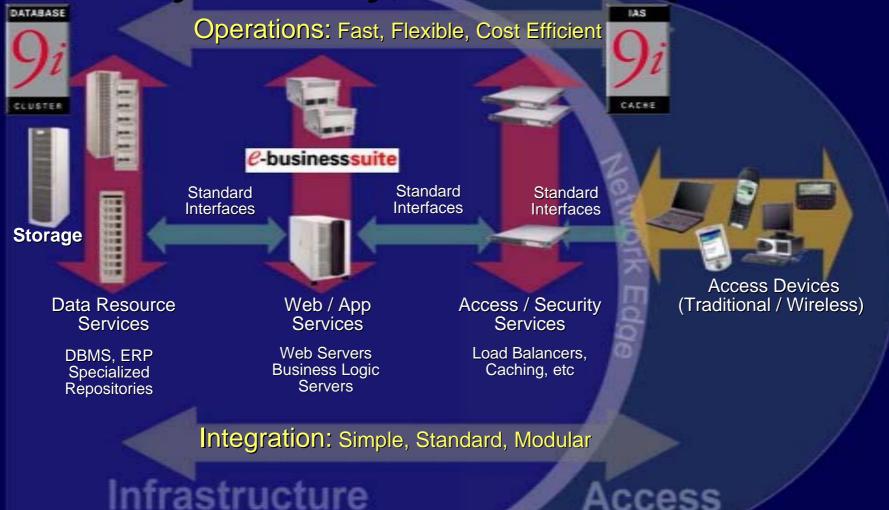
of available storage

#### **Test Plan for 9i RAC Certification**

Automatic fault Injection testing under load
 TPC-C, TPC-H – up to 500 users

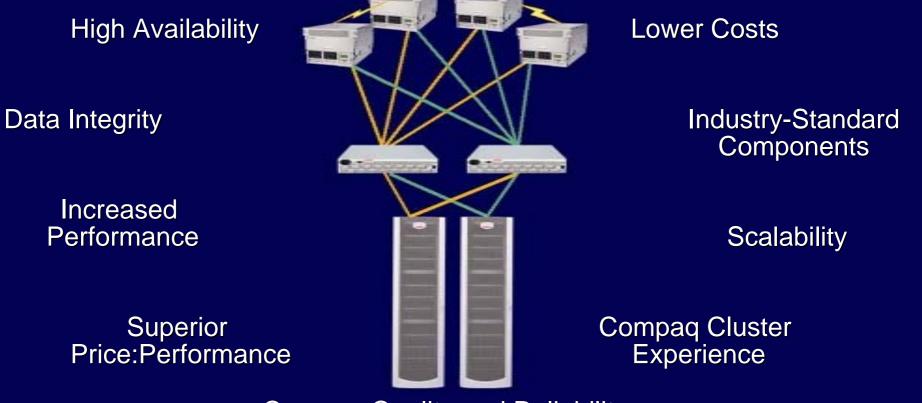
- Manual fault injection
  - IP fault injection, cables, switches
- Simulated server failure
  - Automated reboot on random servers
- Oracle instance failure
  - Repetitive random instance shutdown
  - Software injected failures
- Oracle Certification Test Suite
  - Audited, validated specific functionality load

#### Economic Challenge Simplify Integration, Automate Operations, Scale Dynamically, Guarantee Uptime





#### Summary Compaq Parallel Database Clusters



Compaq Quality and Reliability



#### **Oracle 8i Sizer, Business Intelligence (1)**

- Choose Desired
- Levels of Availability
- and
   Expandability

PhoLiant 5500 - Xeon PhoLiant 6400R - Xeon PhoLiant 8000 - Xeon PhoLiant 8500 - Xeon	Ouick Specs     This enlerprise-class server combines     next-generation multi-processing and I/O     capabilities to deliver industry-leading performance.		
	ProLiant 5500 (Veon) is ideal for large business and er/terprise customers requiring an alfordable, high		
	Maximum Memory: 4 GB		
	Slots: 6 32-bit PDI. 1 shared ISA/PD		
	Maximum Processors: 4 Maximum Internal Drives : 10		
You may select any Server Family which meets your citeria. This sizer can recommend the	Quotients		
server tamilies which most closely match the intended use.	Avaiability 4		
Select Recommended Server Families	Expandability 5		



#### Oracle 8i Sizer, Business Intelligence (2)

# Enable fact-based decisions between price, performance, and expandability for specific situations

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	1.00		Liant 5500R Model 6/550-1 (512 KB cache)	LA	5
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			Liant 6400R Model 6/550-1 (512 KB cache)		+ Expanda



