Compaq Parallel Database Cluster Solutions for Windows NT

Pre-packaged configurations for rapid deployment

Delivering maximum system availability

Picture an *electronic commerce* retail operation. The on-line inventory database system is the heart of the business. Customers require ongoing access to the Web site's database of products, codes, names, and prices to place orders. If the on-line inventory database system fails, sales cannot be logged, the quality of service will suffer, and the operation will lose business.

Don't let this happen to you.
Invest in clustering technology for maximum system availability.

➜ High availability for critical database applications

➜ High performance and scalability across multiple clustered servers

➜ Concurrent Oracle® database access across the cluster

➜ *ProLiant* 1850R and 6500 cluster platforms factory-integrated, staged, and tested by *Compaq Custom***Systems** at its ISO 9001 facility

High availability and scalability

Oracle Parallel Server clustering

Windows NT® operating system

ProLiant servers

Fibre Channel storage

Factory integrated in cabinet

Compaq Parallel Database Cluster Solutions for Windows NT with Fibre Channel storage provide cost-effective, scalable, fault-resilient computing for e-commerce, telecom, decision support, and business-intelligence environments.

COMPAQ | **ORACLE**®

Compaq and Oracle team up to bring the highest level of system availability to the Windows NT enterprise.

Higher uptime, lower costs

Compaq Parallel Database Cluster Solutions for Windows NT deliver high availability and scalability in Oracle database environments using industry-standard components and software. They provide significantly improved uptime and lower operating costs compared to multiple single-server database implementations.

Certified for Oracle8 Server Release and Oracle Parallel Server, the *Compaq Parallel Database Cluster Solutions* for Windows NT are powered by *ProLiant* 6500 and *ProLiant* 1850R servers. They offer a wealth of reliability features including hot-swappable redundant power supplies.

The *Compaq Fibre Channel Storage System* features easily scalable, high-capacity, high-performance industry-standard storage with redundant and hot-swappable power supplies and cooling fans, as well as hot-swappable disk drives to ensure continuous access to your valuable data.

Factory integration: Speed deployment, reduce risk
Packaged in a space-saving, easy-to-maintain, factory-integrated cabinet, each platform contains the *ProLiant* servers, Windows NT operating system, memory, high-performance storage, redundant power supplies, and every cable and connector needed to tie it all together.

ISO 9001 factory integration, staging, and testing from *Compaq* **CustomSystems** creates a platform that can be shipped in the cabinet to arrive at your site ready to load and run Oracle software. If you wish, *Custom***Systems** can also factory load and test your Oracle software. (The customer is responsible for acquiring all Oracle software licenses.) In either case, you will significantly cut the time it takes to put your new systems to work while reducing overall deployment risk.

Oracle Parallel Server technology
Parallel Database Cluster Solutions act as a single logical server for an Oracle database. Users can concurrently access the shared database for read and write operations. Each node of the cluster can work independently of the others, allowing related client/server applications to access the same set of data. Distributed operations with other Oracle servers are fully supported.

Oracle Parallel Server and Windows NT bring datacenter capabilities and performance to the Internet generation.

Exceptional data integrity and consistency

In the event of a failure in the cluster, the remaining nodes continue to access the database, ensuring high availability for your most critical applications. Users on the failed node switch to another node and continue processing.

In addition, Oracle Parallel Server software performs online recovery, complementing the highly reliable server platform to ensure exceptional data integrity and database consistency.

Full integration

Oracle Parallel Server is fully integrated with Oracle8 Enterprise Edition, building on its performance, reliability, flexibility, and simplified administration.

Oracle Parallel Server operates in conjunction with all other features of Oracle8, including Parallel Query and distributed options. It also adds many important new features such as the Oracle's Parallel Cache Management Technology.

ISO 9001 factory integration, staging, and testing creates a platform that can be shipped fully assembled and ready to load and run Oracle software.

Parallel Cache Management Technology allows users across the Windows NT cluster to access the same database using an Integrated Distributed Lock Manager (DLM) to track the state and location of data in each cache.

Supporting business growth

With *Parallel Database Cluster Solutions* technology, your clustered system can grow as your business grows. Unlike single-server solutions, *Parallel Database Cluster Solutions* give you multiple ways to expand your processing power, storage capacity, and connectivity limits without making any major modifications to your application.

Just add more nodes to expand as your needs expand with little modifications to your applications or changes to your Oracle database. The throughput provided by *Parallel Database Cluster Solutions* scales to match the size of your configuration as it grows.

Ensuring success with services

In partnership with Oracle, Compaq offers a range of professional services to ensure the success of your critical applications. A wide variety of services are available including:

→ Program management
→ Application migration
→ Training
→ Network integration
→ Performance tuning
→ Windows NT Server high-availability consulting

With Parallel Database Cluster Solutions for Windows NT your clustered system can grow as your business grows.

CT-OP18F-01   2-node
Pre-packaged Parallel Database
Cluster Solution for *ProLiant* 1850R
Fibre Channel System

→ 2 Pentium II 450 MHz CPUs per node
→ 1 GB memory per node
→ 4 x 4.3 GB system disks
→ TFT450R 14.5-inch flat panel 2U monitor
→ Console manager
→ RAID controller
→ 9 x 9.1 GB RAID storage
→ Fibre Channel hub
→ Fibre Channel Storage Interconnect
→ Two Ethernet switches and one Fibre Channel hub
→ Windows NT server media/license
→ Factory integrated and tested
→ Shipped fully assembled

*The customer is responsible for acquiring all
Oracle software licenses.

CT-OP65F-01   2-node
Pre-packaged Parallel Database
Cluster Solution for *ProLiant* 6500
Fibre Channel System

→ 4 Pentium III Xeon 500 MHz CPUs per node
→ 2 GB memory per node
→ 4 x 4.3 GB system disks
→ TFT450R 14.5-inch flat panel 2U monitor
→ Console manager
→ RAID controller
→ 16 x 18.2 GB RAID storage
→ Fibre Channel Hub
→ Fibre Channel Storage Interconnect
→ Two Ethernet switches and one Fibre Channel hub
→ Windows NT server media/license
→ Factory integrated and tested
→ Shipped fully assembled

CT-OP65F-02   Add 3rd *ProLiant* 6500 Node

CT-OP65F-03   Add 4th *ProLiant* 6500 Node

*Custom*Systems: added value in action

In addition to its first-class computing platforms and services,
Compaq offers value-added support capabilities from
*Custom*Systems that include:

→ Technical quote support

→ Technical project management

→ Test/assembly of software
and hardware

→ Integration beyond standard
products

→ Equipment placement to
your specifications

→ Custom configuration
documentation

→ Business-critical delivery

→ Factory integration, test,
and assembly of Compaq
and third-party hardware

Compaq Professional Services: ongoing support

With Compaq, you don't have to worry about service after the sale.
We field one of the most powerful IT service and support organiza-
tions in the world — including 27,000 IT experts in 114 countries and
a network of over 30,000 highly skilled resellers. We offer a suite of
proactive and reactive services to keep your business-critical com-
puting environment operating at peak performance.

High Availability Solutions for Windows NT

Learn more about Compaq Parallel Database clustering and other
High Availability Solutions for Windows NT at
www.compaq.com/highavailability

*Call your Compaq sales representative or Authorized Business Partner today to learn how you can put
prepackaged Parallel Database Cluster Solutions for Windows NT to work for you.*

For More Information

TOLL-FREE PHONE: **1-800-344-4825**   WEBSITE: **www.compaq.com/customsystems**

Part Number EC-F9950-36

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