



Superdome

First Union's Evaluation of Superdome Technology

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Who We Are...

First Union
Corporation

- ▶ The nation's sixth largest bank
- ▶ Maintains over 2,000 servers in its Open Systems Environment



Our Challenge...

- ▶ Continue to provide new products and services
- ▶ Enhance current products
- ▶ Reduce cost of ownership



Business Directive...

- ▶ Research new technology that will enable the Bank to *consolidate* projects, reduce the number of servers, and (at the same time) increase compute power.
- ▶ Continue to provide a fast, highly available and secure environment for our customers.



Current Situation

- ▶ Less than 100 administrators maintaining 2,000+ servers and installing new servers everyday.
- ▶ Large support maintenance costs
- ▶ Floor Space in Computer Room is a concern
- ▶ Availability and Security always a high priority



Objectives

- Increase the number of servers an administrator can effectively maintain while decreasing the amount of administration required.
- Maintain the current number of administrators.
- Reduce floor space and environmental utilities.
- Increase performance, availability, security.



Consolidation

We approached each major vendor and asked them to provide a solution. Their response:

IBM SP2

SUN E10000

HP Superdome



Superdome Evaluation

- Participated in the Early Market Seed Program for Superdome.
- Tested three of our major projects.
- Tested for product functionality and availability.



Superdome

- ▶ 16, 32, or 64 Way
- ▶ Partition Based System
- ▶ ICOD
- ▶ OLA/R



Why Superdome is a Candidate for Server Consolidation

- ▶ Hardware
- ▶ Software



Hardware

- 16, 32, or 64 Way
- one or two floor prints
- modular and easy to service
- hard partitions
- OLA/R
- iCOD



Software

- Soft partitions
- Management software (gui or tui)
- Software Control Manager



Implementation

- ▶ High Availability Cluster
- ▶ SCM
- ▶ Small and large partitions
- ▶ Instant capacity when need arises



Summary

- ▶ Server consolidation
- ▶ Reduction in support maintenance cost
- ▶ Reduction in number of servers on the computer room floor
- ▶ Reduce number of servers that must be managed
- ▶ Increase compute power and availability.