High Performance and High Availability

Business Challenges

For many companies and organizations, data availability is critical to their success. To achieve optimal availability and performance across their enterprises, they need 24x7 turnkey solution that can cost-effectively meet their long-term and peak data processing needs.

Other companies and organizations are in need of compute-intensive systems that can do millions of calculates a second to analyze data, run simulations, and perform challenging and rigorous computational tasks. These enterprises rely on supercomputing capabilities to meet their objectives.

Dell Professional Services can help by offering solutions aimed at achieving elevated performance and availability. Using standards-based systems, we develop cost effective solutions for delivering parallel computing system platforms, targeted towards compute and data intensive applications. We also pinpoint and eliminate aspects of your IT infrastructure and environment that decrease availability and speed of computation.

Key Benefits

As computing performance advances, the problems to be solved grow incrementally in scope and complexity. Dell Professional Services is experienced at meeting these challenges by designing, planning and implementing highly available and high performance clustered configurations that address customers’ functional, technical, operational and business requirements. Services include:

- High performance hardware and software clustering
- High availability architecture design and deployment
- Compute intensive application processing
- Highly available Exchange, SQL and Windows infrastructure solutions

Visit www.dell.com/services for more information.
**Value of High Performance**
- **Cost effectiveness:** The recent advances in high speed networks and improved
- **Greater flexibility and scalability:** Enhances a cluster’s ability to meet expanding
- **Standardization:** Enables the aggregation of standards-based server and storage

**Value of High Availability**
- **Improved availability:** Advances system availability and lowers the costs associated with
- **Increased scalability:** Enables organizations to scale-up and scale-out
- **Increased availability:** Utilizes clustering to provide failover and increased application

**Getting Started**
- **High Performance Computing Clusters:** Provides detailed design, planning and
- **Windows 2000 Data Center Design and Deployment:** Provides detailed design, planning
- **Exchange & SQL Cluster Design and Deployment Services:** Upfront planning and design