High-Performance Computing Clusters, also known as HPCC or Beowulf clusters, are used for solving the most challenging and rigorous computational intensive tasks facing business, educational and scientific communities today. HPCC combines multiple industry standards-based server and open source software to act as a single, large supercomputer for tasks that employ extensive calculation for applications in fields such as life sciences, oil exploration, weather forecasting, aerodynamic applications and financial modelling.

These industry-standard clusters are often much more cost-effective, flexible and scalable than the traditional supercomputer that has been historically dominant in these computing intensive environments. Experienced consultants from Dell Professional Services can assess your business requirements, as well as design and deploy your High-Performance Computing Cluster.

**Benefits of Dell HPCC Design and Deployment**

- **Decreased costs** – significant cost savings and ROI, compared to mainframes and supercomputing solutions. Cost-competitive solutions built on Dell hardware with award-winning service and support

- **Increased scalability** – greater flexibility and scalability to expand the cluster to meet increasingly-demanding computing requirements

- **Increased performance** – benchmarked hardware, software, networking, and storage solutions available in pre-configured cluster packages

- **Complete solution** – full service, end-to-end solutions that provide a single source for hardware, software and services to plan, design, implement, test, deliver and support an HPCC solution

- **Powerful solution** – this provides our customers with the ability to aggregate standards-based server and storage resources into powerful supercomputers to provide an inexpensive, yet powerful solution.
Dell will work closely with your team to develop and implement the most suitable solution for your organisation. Drawing on years of experience, Dell Professional Services consultants utilise proven methodology and project management expertise to provide timely, efficient and effective solutions. The consultants work with you to gain an understanding of your business objectives and IT strategies, then design plans that are flexible enough to adapt to current environments and structured to deliver desired results.

What does Dell have to offer?

The Dell Professional Services team deliver:
- Detailed documentation including recommendations, timelines and operational impact windows
- Certified design documentation for server, storage and network operating systems
- Product orientation to facilitate familiarisation with the hardware, software and implementation.

The Dell Difference

Dell Professional Services combine affordability with an in-depth understanding and expertise in implementing standards-based systems. Dell complements these strengths by providing a single point of accountability that makes it easy to obtain the service you need.

Next Stage

Dell Professional Services consultants will work with you to understand business or scientific environments in terms of business, functional, technical and operational requirements, in order to design a customer-oriented HPCC solution that is right for your particular environment.

Dell Services 360° approach

Dell Professional Services are part of Dell’s $4billion worldwide services business, which applies a 360° approach to lifecycle support to achieve scalable enterprise computing. Dell Professional Services are integrated with the other solutions in the Dell Services portfolio, which helps customers at every stage of the lifecycle from initial infrastructure consulting, through application testing to desktop value recovery and recycling.

For further information please contact your Dell Account Manager.