FUJITSU Integrated System PRIMEFLEX® reduces complexity and risk, shortens time to value and reduces cost. PRIMEFLEX for HPC cluster solutions include the intuitive Fujitsu HPC Gateway web user workplace to deliver simplicity of use and leverage expertise in packaged application processes.

PRIMEFLEX® for HPC Cluster Solutions

**Designed to your workload specific requirements**
Thoroughly designed to customers operational and workflow related requirements, PRIMEFLEX for HPC cluster solutions from Fujitsu provide an optimal price / performance ratio. Ready-to-Go delivery of HPC infrastructures guarantees rapid deployment for production and includes Intel Cluster Ready certification for proven performance and trouble-free operation. The HPC Gateway with application integration makes the use of HPC easier for experts and more broadly accessible to beginners.

**Ease of use for Beginners and Experts**
HPC Simplicity lowers entry barriers and makes HPC accessible to a much wider set of end-users, including sectors just starting with HPC. Fujitsu’s HPC Cluster Suite with its intuitive web based “desktop” guides users through their daily tasks eliminating the complexity of using HPC resources and leading to improved user productivity. PRIMEFLEX for HPC cluster solutions from Fujitsu simplify HPC access, lower cost and risk and leverage expertise for more economic value from HPC.

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**High Performance Computing**
*What is it all about?*
High Performance Computing (HPC) impact our daily lives in many ways. HPC improves car safety enabling simulated crash tests and increases oil recovery with more accurate seismic modelling of oil reservoirs, it provides medics and scientists access into the chemistry of our bodies to help develop new drugs and therapies, and it optimizes the utilization of renewable energy sources with efficiently designed wind turbines – just to name a few examples.

**Scalable Performance**
*From Technical to Supercomputing*
High Performance Computing tasks are not alike – nor are the requirements of users. Yet as different as they all may be, PRIMEFLEX for HPC cluster solutions from Fujitsu address the requirements at all levels: from workgroup-sized configurations up to divisional-sized HPC cluster environments based on highly reliable hardware components. Comprehensive services spanning from consulting to installation support and maintenance complement the offering. Supported by a fully integrated and complete HPC solution stack all HPC Cluster solutions are designed to deliver application results in a shorter time.

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Look for Intel® Cluster Ready solutions based on the latest Intel® Xeon® processors.
HPC Cluster Solutions optimized for your industry

PRIMEFLEX for HPC

To increase competitiveness more organisations, particularly smaller businesses, are looking for ways to leverage high performance computing (HPC). Some may be considering the first use of HPC, while others are extending HPC into new domains or evaluating new methodologies. Central to both is application usability and efficiency.

To ensure an optimal price-performance, all components of the reference configurations for PRIMEFLEX for HPC cluster solutions are defined based on thorough benchmark testing. This reduces the time and cost of acquisition, and provides an assured basis for higher efficiency and less risk.

HPC Simplicity and Expertise

PRIMEFLEX for HPC cluster solutions simplify all aspects of HPC. Simplicity broadens the accessibility of tools previously reserved for practiced users, letting more users and projects benefit from scalable simulation. This is delivered through a dedicated HPC software environment in the solution, and particularly the Fujitsu HPC Gateway intuitive web-based user workplace.

Yet the real transformation comes from using application methods built on codified expertise. Fujitsu's Application Catalogue contains a growing range of application run-time process packages that deliver greater robustness and functional capability, particularly for increasingly intensive HPC workloads.

Pre-built packages are downloadable from the Fujitsu Application Catalogue, to be imported into the local Fujitsu HPC Gateway. Through this powerful combination PRIMEFLEX for HPC cluster solutions help integrate HPC firmly within corporate business processes by delivering reliable and accessible tools for mainstream use.

Validated Solutions for HPC Applications

PRIMEFLEX for HPC Application Solutions (Application Appliances) achieve an optimal tuned architecture from extensive direct benchmarking on HPC applications, tested with real production models:

- PRIMEFLEX for HPC Application Solution for ANSYS CFD
- PRIMEFLEX for HPC Application Solution for COMSOL Multiphysics
- PRIMEFLEX for HPC Application Solution for Autodesk VRED™
- PRIMEFLEX for HPC Application Solution for LS-DYNA

Conclusion

PRIMEFLEX for HPC provides validated integrated solutions based on pre-defined and optimized HPC cluster configurations for specific applications.

- No hidden costs
- Users immediately productive
- Architected for applications and workloads
- Certified for application compatibility
- Assured performance with clear modular growth
- HPC simplicity and expert run-time processes