

# The Data Center Opens Up

A growing number of organizations are using the Fujitsu Group's innovative PRIMEQUEST servers—with their open, mainframe-class performance and reliability—to transform enterprise computing operations





## Resources

### PRIMEQUEST servers

- [www.fujitsu.com/primequest](http://www.fujitsu.com/primequest)
- [www.fujitsu-siemens.com/primequest](http://www.fujitsu-siemens.com/primequest)
- [www.computers.us.fujitsu.com/primequest](http://www.computers.us.fujitsu.com/primequest)

### TRIOLE

- [www.fujitsu.com/triole](http://www.fujitsu.com/triole)
- [www.fujitsu-siemens.com/triole](http://www.fujitsu-siemens.com/triole)
- [www.computers.us.fujitsu.com/triole](http://www.computers.us.fujitsu.com/triole)

### Oracle and Fujitsu

- [uc.fujitsu.com/oracle](http://uc.fujitsu.com/oracle)
- [www.fujitsu-siemens.com/oracle](http://www.fujitsu-siemens.com/oracle)
- [us.fujitsu.com/computers/oracle](http://us.fujitsu.com/computers/oracle)
- [solutions.oracle.com](http://solutions.oracle.com) Enter "Fujitsu"

down during admissions periods, final tests, and other busy times of the year. In addition, the institute has several departments, which meant having to maintain multiple systems.

The Shibaura Institute addressed these issues by consolidating several databases onto Oracle 10g running on PRIMEQUEST servers, and moving applications to blade servers. As a result, maintenance is streamlined, and system engineers can focus on new projects rather than routine tasks. The institute plans to expand the services it provides to students, and PRIMEQUEST offers the scalability the institute needs for such efforts—as well as the reliability required for its consolidated, mission-critical systems. "We know the Fujitsu Group's reliability because we had used a Fujitsu Group mainframe," says Tatsuro Yamazaki, director of the Center for Science Information at Shibaura Institute of Technology. "We chose PRIMEQUEST because it is as robust as mainframe-class computers, and we can expect it to provide stable operations."

PRIMEQUEST supports consolidation with the ability to easily scale up and scale out cost-effectively. Sungae Hospital in Korea, for example, is consolidating 14 servers

onto one PRIMEQUEST system, helping to cut system-management costs while increasing capacity and reliability.

Individual PRIMEQUEST servers can be expanded to include up to 64 processor cores in a single cabinet. New resources can be brought online without disrupting previously configured resources. PRIMEQUEST servers can also be run in clusters using the Fujitsu Group's PRIMECLUSTER™ technology, a high-availability environment that supports Oracle Database 10g including Oracle Real Application Clusters.

The servers also bring ease of management and flexibility to consolidation efforts, with robust partitioning capabilities that let companies configure a large number of isolated partitions, with each partition running its own operating system and applications. In effect, each partition is a fully independent "server" within the system, which means companies can run Linux and Windows simultaneously on the same machine. What's more, with PRIMEQUEST's separation of I/O resources and system boards, additional I/O resources can be added without affecting processor and memory configurations. That flexibility lets companies scale up and scale out applications within the server, and easily rearrange disks and peripherals connected to each partition.

Overall, PRIMEQUEST servers are designed to provide power and cost-effectiveness both today and tomorrow. To that end, the Fujitsu Group works with key partners—including Intel and Oracle—to ensure that PRIMEQUEST development continues to meet the needs of enterprise computing. "PRIMEQUEST and the TRIOLE process are designed to help companies transform and streamline their data centers," says Dr. Bernd Kosch, vice president of Alliances at Fujitsu Siemens Computers. "We will continue to explore new ways to reduce IT operating costs while enhancing the data center's ability to support business-critical computing and adapt to the ever-changing needs of the business." •



Japan's Shibaura Institute of Technology has used PRIMEQUEST servers to consolidate mission-critical applications and provide reliable service to some 8,000 students and staff.