

FUJITSU Server BS2000 SE Series

High-End Multi-OS Platform



shaping tomorrow with you

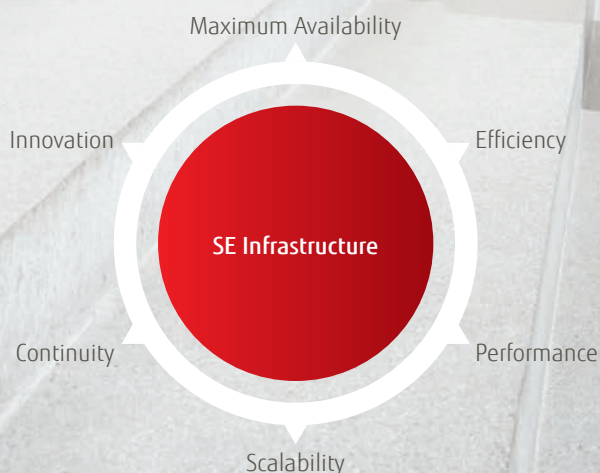
FUJITSU

Flexibility redefined: The mainframe platform for multiple scenarios

« Outstanding performance scalability (both scale up and scale out) paired with extremely high availability – a matter of course in the FUJITSU Server BS2000 SE Series. »

For more than 40 years, BS2000 mainframes have enabled customers to satisfy even the toughest demands when it comes to business-critical applications. System innovations are always introduced in close collaboration with our customers. And that also applies to the new **FUJITSU Server BS2000 SE Series**. This customer-centric development strategy is unique in the mainframe market and has brought forth a hybrid system that sets completely new standards for multi-server operation in terms of openness, integration options and manageability.

- **The SE Series combines standard mainframe technology with the technology of the open world.** This makes the SE Series the optimal platform for running mainframe applications on /390 and x86 technology. Customers can realize the most diverse application scenarios by selecting the optimal platform for the job, thus enabling them to get the most out of their mainframe investments.
- **The SE Series features standardized central management of the entire system, including the peripherals integrated in the SE infrastructure.** This reduces operational complexity and helps customers optimize processes and the deployment of IT personnel.
- **The SE Series offers innovative future-centric high-availability functions.** Customers will be in a position to increase the availability of the mainframe platform quite easily and at low cost.



FUJITSU Server BS2000 SE Series

The flexible multi-OS platform

Management Unit (MU) with SE Manager (SEM)

For central, convenient and overarching system web-based management.

Server Unit (SU /390)

For the highest BS2000 monprocessor power and overall performance with maximum scalability.

Server Unit (SU x86)

For more resource flexibility with the latest high-end Intel standard processor technology.

Application Unit (AU x86)

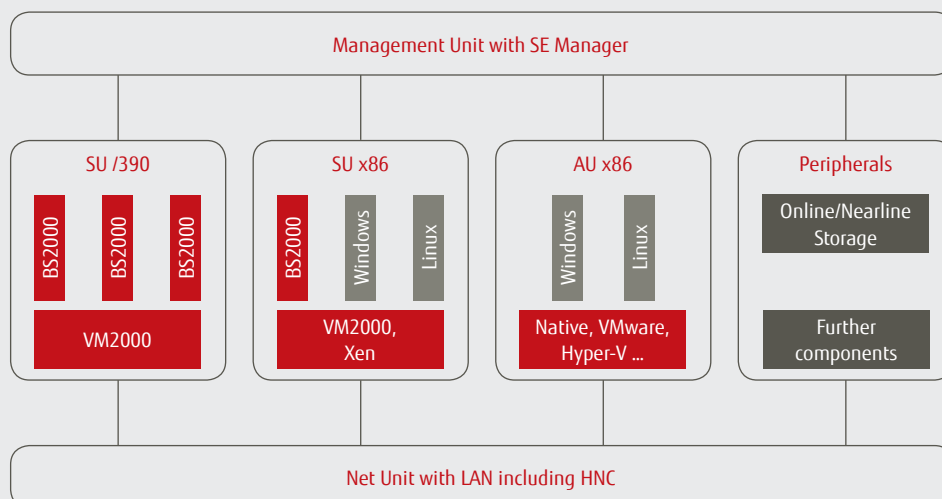
For using additional operating system environments (Linux, Windows) and hypervisors (e.g., VMware vSphere) with centrally shared management.

Peripherals Unit (PU)

For joint use and management (via SEM, StorMan) of integrated and external peripherals (online and nearline storage, switches, etc.).

Net Unit (NU)

For fast and secure provisioning and intra-connectivity of internal server and application units, plus connectivity with the customer's SAN.



The architecture concept of the FUJITSU Server BS2000 SE Series offers customers the best platform for every application scenario. The holistic management concept of the SE Series considerably reduces administration and maintenance tasks, thus leading to lower costs as opposed to operating separate server systems.

Highlights

19-INCH STANDARD RACK

For the first time, /390 and x86 hardware technologies are both realized in a 19-inch standard rack. This provides the basis for the unique integration of technologies in one finely tuned joint infrastructure.

STANDARDIZED MANAGEMENT CONCEPT

The **SE Manager** supports an extremely high level of integration and ensures very efficient operation. The overarching system administration with a modern browser-based interface as a single point of administration, the joint system monitoring of all components, the holistic high-availability and shared service concept, as well as wide-ranging options for consolidation based on modern virtualization technology all ensure consistent, low-cost system operation and optimal resource usage.

UNIQUE HIGH-AVAILABILITY CONCEPTS

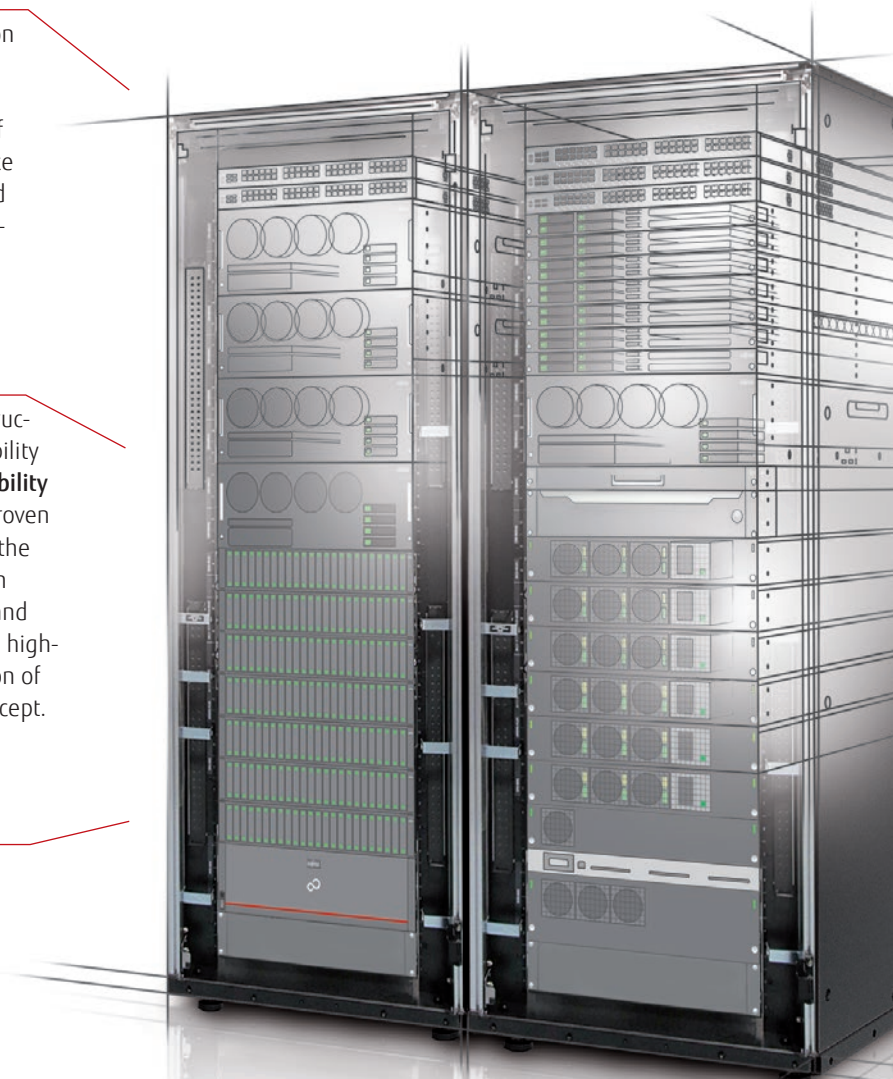
It goes without saying that mainframe-based infrastructures offer the highest levels of reliability and availability for system operations. The world's unique **High Availability and Live Migration solutions** (already successfully proven in the SQ Series) are now being complemented with the /390 technology in the new SE Series. Live Migration helps enterprises avoid planned service downtimes and considerably minimize outages thanks to automated high-availability routines. This also supports the integration of the storage infrastructure in the high-availability concept.

READY-TO-RUN NETWORK

The SE infrastructure is delivered to customers with a network that is ready to run. The net unit of the SE Series offers the **highest performance** between the SE units and the customer network. And the net unit also ensures **maximum security**. This is achieved through network virtualization and isolation, integrated components for physical security and access control for logical security.

HIGHER PERFORMANCE AND ENERGY EFFICIENCY

Monoprocessor and system performance have been increased to enable **parallel operation of BS2000 OSD/XC, Windows and Linux**. A remarkable performance bandwidth is available, from the entry-level up to the high-end system range. New features such as 8 Gbit/s Fibre Channel in the /390 server unit also contribute to the improved overall performance of the SE infrastructure. At the same time, comprehensive and intelligent energy monitoring makes sure that energy consumption is reduced.



MORE APPLICATION OPTIONS FOR MAINFRAME CUSTOMERS

By recentralizing servers in the data center, the unique architecture concept of the SE Series offers business enterprises completely new perspectives for their IT. The units in the SE infrastructure can be combined in ways that provide the optimal platform for satisfying specific customer requirements. Examples of scenario options include:

- **Classic mainframe operation with /390-based server hardware** and native BS2000 or with host systems running VM2000 (virtual machine system) for stable, high-performance application performance. Customers can use the same runtime environment for production as well as testing and development in order to benefit from extreme scalability whenever performance requirements increase.
- **Classic mainframe operation with x86-based server hardware** is suited for applications that do not demand extremely high monoproccessor performance, thus making it an ideal extension or alternative to economical BS2000 operation with analogue usage options.
- **Hybrid mainframe with /390 and x86 technology** allows customers to use the particular platform that best matches each mainframe and standard application – resource usage is thus optimized, not to mention that system management becomes easier and more effective.
 - **For integrated applications**, the most diverse front-end and back-end scenarios can be realized. Customers especially benefit from the standardized management and the option of choosing the best technology combination for each particular scenario.
 - **For distributed applications**, for example, distributed openUTM applications, the use of application units permits the selection of the technology combination that delivers the most performance, and it is also possible to increase the range of applications for BI and big data scenarios.
- **Data center consolidation:** The architecture of the SE Series makes it a best-in-class consolidation platform for applications in both the mainframe and open worlds. Customers are able to realized standardized SLA and service management concepts while sustainably cutting costs.
- **Private cloud services** can be realized within a business enterprise or as services delivered by external providers without difficulty. The outstanding security and service concept of the SE Series delivers substantial benefits to customers in such cases.

These are only a few of the many scenarios possible with the FUJITSU Server BS2000 SE Series.

CUSTOMER BENEFITS DELIVERED BY THE FUJITSU SERVER BS2000 SE SERIES

- Improved Total Cost of Ownership (TCO) with a multi-OS platform and holistic integrated management concept
- Maximum flexibility for recentralizing applications and consolidation of IT operations and resources
- Future-proof solution and investment protection thanks to wide-ranging extension and growth options
- Optimal support for business processes through standardized and consistent service
- Better cost control due to higher levels of transparency
- Highest stability and availability with extensive automation
- Higher levels of security
- New potential for saving energy

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