

FUJITSU BS2000 Hardware, Software and Services Portfolio

Greater flexibility with
high-end multi-server platforms

Enterprise systems in today's data centers operate on the assumption that maximum data and application availability plus outstanding economic efficiency are indispensable attributes. A system must be designed and monitored in such a way that individual faults do not result in a system standstill and that all components interact optimally and effectively in a reliably coordinated manner.

SE infrastructures meet such requirements perfectly. A multi-server platform with a standardized management concept enables considerable TCO improvements and offers the greatest possible flexibility when recentralizing applications as well as when consolidating IT operations and the resources used. A standardized service concept optimally supports wide-ranging configurations and growth options and ensures future security and investment protection in state-of-the-art data centers.



FUJITSU

shaping tomorrow with you

Future security coupled with flexibility

High-end performance

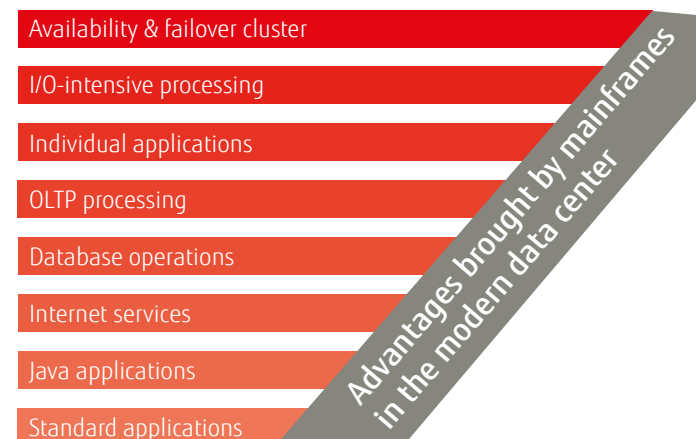
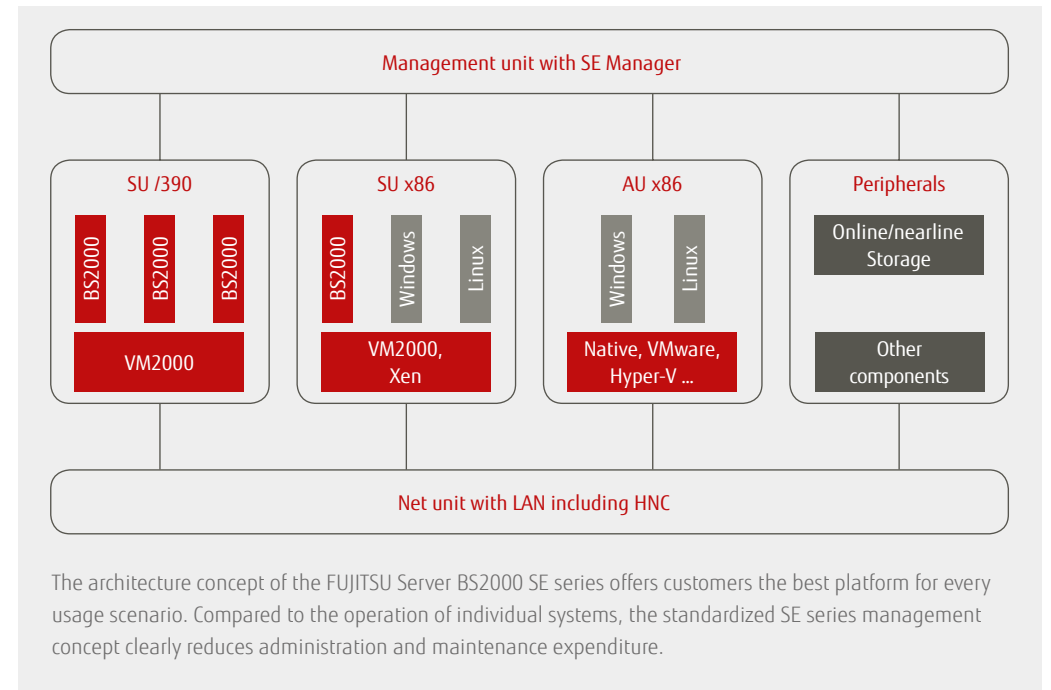
BS2000 is a highly available, scalable, high-performance operating system basis for business-critical applications and is completely compatible across numerous versions. The open interfaces of the BS2000 mainframe operating system offer exceptionally flexible and future-proof integration in modern application architectures, reliably fulfilling the IT requirements of dynamic data centers.

Excellent mainframe technology features

- Best TCO values with a high number of end users
- High availability during normal IT operations and in case of a disaster
- Maximum stability, scalability and high performance for databases and applications
- Large amounts of data and scalability over an enormous performance bandwidth without any technological leaps



FUJITSU Server BS2000 SE series (SE300 / SE500 / SE700)

- Mainframe technology for BS2000, Linux and Windows applications based on the latest Intel® Xeon® E7 v2 technology
- State-of-the-art innovative high-end mainframe (/390) technology (SE500 and SE700)
- Powerful BS2000 mainframe for entry-level and medium-range performance (SE300)
- Integration of different server and peripheral systems
- Central, comfortable operation and administration of all applications on the SE
- Optional use of various application units for x86 applications (supports Linux, Windows, VMware vSphere)
- Outstanding energy efficiency and low space requirements with maximum user numbers and changing workloads
- Capacity on demand for temporary processor activation
- Reduced TCO thanks to highly-developed automation technology
- Investment protection thanks to the object-compatible functionality of all BS2000 applications



FUJITSU Server BS2000 SE series portfolio

Performant – Efficient – Reliable

	FUJITSU Server BS2000 SE300 	FUJITSU Server BS2000 SE500 	FUJITSU Server BS2000 SE700 
Operating system	BS2000 OSD/XC V10.0/Linux, Windows with SU300 or application units	BS2000 OSD/XC V10.0 / Linux, Windows with SU300 or application units	BS2000 OSD/XC V10.0 / Linux, Windows with SU300 or application units
Server units	0 - 2 SU300 Server unit (basis x86)	1 SU500 Server unit (basis /390) 0 - 2 SU300 Server unit (basis x86)	1 SU700 Server unit (basis /390) 0 - 2 SU300 Server unit (basis x86)
Application units	0 - 20 High-end x86 Server with Intel® Xeon® E7 v3 processors for Linux and Windows applications	0 - 20 High-end x86 Server with Intel® Xeon® E7 v3 processors for Linux and Windows applications	0 - 20 High-end x86 Servers with Intel® Xeon® E7 v3 processors for Linux and Windows applications
Processor type	SU300: Intel® Xeon® E7 - 8857 v2	SU500: CMOS in /390 architecture SU300: Intel® Xeon® E7 - 8857 v2	SU700: CMOS in /390 architecture SU300: Intel® Xeon® E7 - 8857 v2
Number of BS2000 processors	SU300: 1 - 16 (max. 32)	SU500: 1 - 3 and 1 hot-spare CPU SU300: 1 - 16 (max. 32)	SU700: 2 - 15 and 1 hot-spare CPU SU300: 1 - 16 (max. 32)
Performance	12 - 1.750 RPF* with 16 models	185 - 1.620 RPF* with 11 models	1.120 - 5.500 RPF* with 11 models
Main memory	Up to 1,5 TB per server unit	SU500: up to 64 GB SU300: up to 1.5 TB	SU700: up to 256 GB SU300: up to 1.5 TB
I/O interfaces	SU300: up to 10 PCI slots for Fibre Channel with 8/16 Gbit/s, SAS or LAN controller	SU500: up to 94 Fibre Channels with 8 Gbit/s SU300: up to 10 PCI slots for Fibre Channel, SAS or LAN controller	SU700: up to 126 Fibre Channels with 8 Gbit/s SU300: up to 10 PCI slots for Fibre Channel, SAS or LAN controller
Net unit	1/10 Gbit/s SE Server integrated and external LAN connectors for server units and application units	1/10 Gbit/s SE Server integrated and external LAN connectors for server units and application units, 1 - 4 High-speed Net Connect (HNC)	1/10 Gbit/s SE Server integrated and external LAN connectors for server units and application units, 1 - 4 High-speed Net Connect (HNC)
Management unit	Administration of all SE Server components incl. peripherals	Administration of all SE Server components, incl. peripherals	Administration of all SE Server components, incl. peripherals
System rack	1 System rack (0 - 3 additional racks possible)	1 System rack (0 - 3 additional racks possible)	1 System rack (0 - 3 additional racks possible)

More information about BS2000 Server can be found at:

www.fujitsu.com/fts/bs2000/server

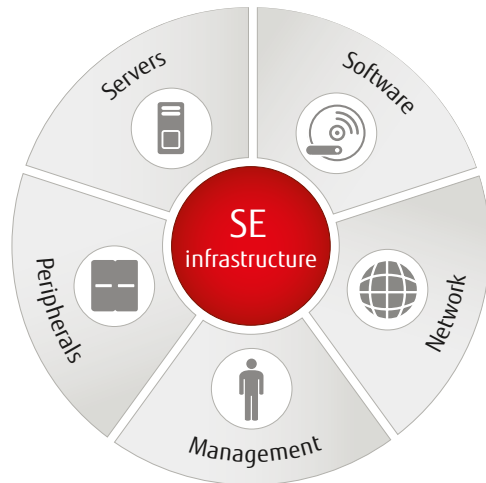
* RPF = Relative Performance Factor (1 RPF = 1,5 MIPS)

Enterprise IT infrastructures

Integrated – Flexible – Secure

Mainframe integration in state-of-the-art data centers

Mainframe technologies are the main pillars for critical business applications in today's Enterprise IT infrastructures. In order to use applications which fully maximize the use of internet options and mobile technologies, BS2000 mainframe platforms offer suitable integration options, e.g. web user interfaces, simple integration in portals and heterogeneous application scenarios, state-of-the-art application developments or modelling of service-oriented architectures.



Integration

- with other server platforms
- of applications
- of data in multivendor networks
- with storage systems and Net-Storage
- in higher-level IT operations management

SE infrastructure

The units can be combined in the SE infrastructure so that they provide the optimal platform for the customer's respective requirements. In addition to classic mainframe operations, such a hybrid system enables many different usage scenarios, such as the consolidation of all the application components belonging to one IT service into a shared platform. The SE infrastructure also offers a protective framework when modernizing critical business applications. And last but not least it can operate as an Enterprise platform for critical business standard applications.

Even critical business basic services, such as portals, mail, directory services etc., can be suitable consolidated.

Software

BS2000 mainframe software with its comprehensive services and functions provides optimal support for existing and new IT infrastructures. The BS2000 OSD/BC operating system with its open interfaces offers future-proof integration into modern application architectures. These include:

- Open standard interfaces
- Standardized system technology
- Open integration software that can be adapted

Peripherals

We offer a carefully chosen selection of peripherals, delivering the best value for every BS2000 performance range. The SE infrastructure enables the shared use and management of integrated and external peripherals.

Servers

The FUJITSU Server BS2000 SE series has a unique selling point in the server market. As flexibly configurable hybrid systems they open up completely new design options in multi-server operations thanks to their openness, integration options and manageability. The SE series with its processors offers:

- Best system performance
- Flexible configuration options
- Maximum stability and availability
- Minimum power consumption
- Low space requirements

Network

The SE infrastructure is supplied with a „ready-to-run“ network. The SE series net unit provides maximum performance between the SE units and the customer network and also features maximum security. This is implemented by:

- Network virtualization
- Network isolation
- Integrated components for physical security
- Access control for logical security

Management

The SE Manager ensures a standardized, central management concept for the entire system which enables a very high degree of integration and the optimal use of resources:

- Cross-system administration using a modern, browser-based interface as a single-point-of-administration
- Common system monitoring of all parts and components
- Common service concepts
- Comprehensive consolidation options thanks to state-of-the-art virtualization

FUJITSU Software BS2000 Portfolio

Fujitsu covers all the relevant topics of modern data centers with more than 100 mainframe software products.

<p>Operating system</p> <p>Meets all important requirements of dynamic data centers as a fully compatible basis for business-critical applications</p> <p>Benefit Highly efficient platform</p> <p>Products</p> <ul style="list-style-type: none"> ■ BS2000 OSD/BC for S-Server ■ BS2000 OSD/XC for SE and SQ Server 	<p>Database systems</p> <p>Achieve secured, consistent, integrated and highly scalable information management</p> <p>Benefit Consistent data provision</p> <p>Products</p> <ul style="list-style-type: none"> ■ LEASY ■ ORACLE ■ SESAM ■ UDS/SQL 	<p>Integration</p> <p>„openSEAS“ integrates BS2000 applications (incl. corporate applications) into the internet, also via mobile devices</p> <p>Benefit Internet access 24 hours a day</p> <p>Products</p> <ul style="list-style-type: none"> ■ BeanConnect ■ openFT (File Transfer) ■ openUTM (Transaction Monitor) ■ WebTA (Webenabling & Portals) 	<p>Job management</p> <p>Automates routine work and cross-platform functions</p> <p>Benefit Administration optimization</p> <p>Products</p> <ul style="list-style-type: none"> ■ AVAS ■ JV ■ SDF-A ■ SDF-P 	<p>Communication and Internet</p> <p>Offers open network architecture, selected interoperability features and optimized e-mail standards in accordance with communication systems</p> <p>Benefit Access to open networks</p> <p>Products</p> <ul style="list-style-type: none"> ■ Apache ■ interNet Services ■ openNet Server ■ TIAM, MT9750
<p>Performance management</p> <p>Analyzes and controls system performance in order to optimize load distribution</p> <p>Benefit Optimal performance and load distribution</p> <p>Products</p> <ul style="list-style-type: none"> ■ DAB ■ openSM2, SM2-PA ■ PCS ■ RAV ■ SCA 	<p>Print management</p> <p>Provides all the services required to implement corporate print concepts</p> <p>Benefit Printing in networks on a cross-platform basis</p> <p>Products</p> <ul style="list-style-type: none"> ■ DPRINT ■ RSO 	<p>Programming systems</p> <p>Create the foundation for professional development of individual applications on BS2000 systems</p> <p>Benefit Easy of use</p> <p>Products</p> <ul style="list-style-type: none"> ■ BS2IDE ■ ASSEMBH, C/C++, COBOL, CRTE ■ FOR 1, Pascal-XT, PL/1 ■ JENV (JAVA) ■ AID, COLUMBUS 85 ■ FHS, IFG 	<p>Security</p> <p>Offers exacting security concepts for a dynamic data center</p> <p>Benefit Maximum security</p> <p>Products</p> <ul style="list-style-type: none"> ■ openCRYPT Serv ■ openCRYPT Soft ■ SECOS 	<p>SNMP management</p> <p>Supports cost-effective and efficient management of disparate systems in a corporate network</p> <p>Benefit Integration network</p> <p>Products</p> <ul style="list-style-type: none"> ■ SBA-BS2 ■ SSC-BS2 ■ SSA-SM2-BS2 ■ SSA-OUTM-BS2
<p>Storage management</p> <p>Permits the best possible benefit to be drawn from the handling and use of connected storage media</p> <p>Benefit Integration of storage systems and backup</p> <p>Products</p> <ul style="list-style-type: none"> ■ HSMS, ARCHIVE, FDDRL ■ MAREN, ROBAR ■ SHC-OSD ■ SPACEOPT 	<p>System management</p> <p>Covers products for the support and automation of system operation</p> <p>Benefit Central management</p> <p>Products</p> <ul style="list-style-type: none"> ■ OMNIS ■ OMNIS-Menu ■ OMNIS PROP ■ PROP-XT 	<p>Utilities</p> <p>Adapts IT solutions with special utilities to customized requirements in a very flexible way</p> <p>Benefit Support of individual customer solutions</p> <p>Products</p> <ul style="list-style-type: none"> ■ EDT, FMS, LMS ■ NFS, RFA, PERCON, SORT ■ TASKDATE 	<p>High Availability and Cluster</p> <p>Ensures constant availability for business-critical applications (from standard operations through to a disaster)</p> <p>Benefit Constant availability (24/7)</p> <p>Products</p> <ul style="list-style-type: none"> ■ DRV ■ High Availability (HA) ■ HIPLEX-MSCF ■ Live Migration (LM) 	<p>Virtualization</p> <p>Enables several virtual systems to be processed simultaneously on one server</p> <p>Benefit Efficient resource utilization</p> <p>Products</p> <ul style="list-style-type: none"> ■ VM2000

More information about BS2000 Software can be found at:

www.fujitsu.com/fts/bs2000/software

* OSD (Open System Dimension)

FUJITSU Service BS2000 Portfolio

Suitable for all customer requirements

Design operational procedures in an economic manner

The fundamental success factors in modern data centers are the operationally secure integration of BS2000 systems, uncompromising availability and the highest possible economic viability and cost transparency. Future security and investment protection demand complete service eco-systems in order to maintain IT operations with their complex infrastructures in an efficient and future-proof manner. Fujitsu, as a reliable trustworthy partner, supports its customers with the emphasis on reducing IT total costs, ensuring the high-availability of IT operations and simultaneously creating intelligent solutions.

BS2000 Services & Support in Dynamic Infrastructures

Managed Infrastructure	Managed Data Center BS2000 Remote and local services (system administration, consulting services) Financial Services (AIP, CoD)
Infrastructure as a Service	BS2000 Infrastructure as a Service Providing BS2000 IT infrastructure and staff by Fujitsu (productive, information and archive systems and disaster recovery)
Infrastructure Solutions	BS2000 Solutions (DB offload, SOA Integration, Consult, Design, Build, Services, Training, etc.)
Infrastructure Products & Services	BS2000 Hardware- /Software- / Middleware-Portfolio (BS2000 SE series, BS2000 OSD/BC, BS2000 OSD/XC, openSEAS) Maintenance and Support Services (Remote/local, SLAs, etc.)

Information about BS2000 Services can be found at:

- www.fujitsu.com/fts/bs2000/services
- Contact: expert.bs2000@ts.fujitsu.com

BS2000 Training Course Offerings

Standard and Customized Training Courses

Fujitsu offers a comprehensive portfolio of technical training courses for BS2000 products. On request, training course contents can be specifically adapted to customer requirements and, if required, training courses can also be held as in-house courses.

Topics:

- BS2000 Fundamentals
- BS2000 System applications
- BS2000 System operation
- BS2000 System support
- Integration into data center infrastructure
- Application development products

Information about BS2000 training courses can be found at:

- www.fujitsu.com/fts/bs2000
- Contact: training@ts.fujitsu.com

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More information:

www.fujitsu.com/fts/bs2000

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