

Bull Escala Servers

As early as the 1980's, Bull was recognized as one of the leaders of the Unix world, and a recognized specialist in open IT infrastructures worldwide. In 1992, Bull participated in the launch of the Power™ processors with IBM and Motorola, successfully marking the beginning of a new era for flexible and adaptable information systems. In 1994, Bull developed the first SMP multiprocessors on AIX™, and has been actively participating in the specification and development of new AIX™ releases ever since, including the current AIX™ 5.3 release. In 2004, Bull was a founding member of the Power.org community.

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Entry Systems

Esca 505 / 505Q

The Esca 505 and 505Q Systems give you tools for servers managing business, greater application flexibility, and innovative technology -- all designed to help you become an On Demand Business. The 505 is available in a 1-core or 2-core configuration with 6 processor options -- a 1-core or 2-core 1.65 GHz POWER5 processor, a 2-core 1.5 GHz POWER5 processor, a 1-core or 2-core 1.9 GHz POWER5+ processor, and a 2-core 2.1 GHz POWER5+ processor. The 505Q is available with a 4-core 1.65 GHz POWER5+ processor. The base 1 GB of main memory can be expanded to 32 GB for faster performance and exploitation of 64-bit addressing as used in large database applications.

Highlights

The System offers:

- Outstanding value for entry UNIX or Linux servers
- Powerful, symmetric multiprocessing (SMP) server for On Demand Business
- 1U rack-mount configuration for space constrained environments
- Performance and capacity needed by having on demand infrastructure and HPC applications
- Mainframe-inspired reliability, availability, and serviceability features
- Up to 32 GB of memory
- Two DASD bays for 3.5-in disk drives accommodating 600 MB of internal disk storage
- One slimline media bay for DVD-ROM or DVD-RAM
- Dynamic LPAR support



Escala 51A / 510Q

The Escala 51A and 510Q System comes in a 2U rack drawer package and is available in a 1-core or 2-core configuration using the innovative, 64-bit, copper-based POWER5+ microprocessors running at either 1.9 or 2.1 GHz. The p5-510Q, very similar to the 51A server, is available in a 4-core configuration using either a 1.5 or 1.65GHz POWER5+ processor.

Highlights

The System offers:

- 64-bit scalability, offering 1-, 2-, and 4-core configurations
- Powerful, symmetric multiprocessing (SMP) on demand server
- 2U rack-mount configuration
- Performance and capacity needed by demanding On Demand Business applications
- Up to 32 GB of memory
- Up to 1.2 TB of internal disk storage
- Four hot-swap disk bays and three PCI-X slots for feature expandability
- One slimline media bay for DVD-ROM or DVD-RAM
- Dynamic logical partitioning (LPAR)



Midrange Systems

Escala 52A / 520Q

The Escala 52A and 520Q gives you tools for servers managing business, greater application flexibility and innovative technology -- all designed to help you become an On Demand Business. The 52A is available in a 1-core configuration using a 1.65 GHz POWER5+ processor with no L3 cache, a 1-core configuration using a 2.1 POWER5+ processor with a 36 MB cache, or a 2-core configuration using either a 1.65, 1.9 or 2.1 GHz POWER5+ processor, all with a 36 MB L3 cache. The 520Q is available with a 4-core 1.5 or 1.65 POWER5+ processor, with two 36 MB L3 caches. The base 1 GB of main memory can be expanded to 32 GB for faster performance and exploitation of 64-bit addressing as used in large database applications.

Highlights

The System offers:

- 64-bit scalability in a 1-core, 2-core, or 4-core configuration
- Powerful, symmetric multiprocessing (SMP), business server
- Performance and capacity needed by your On Demand Business applications
- Up to 32 GB of memory
- Up to 2400 GB of internal disk storage
- Two slimline media bays for DVD-ROM and DVD-RAM
- One media bay for tape drive



Escala 55A / 550Q

The Escala 55A and 550Q 4U rack-mount servers give you new tools for managing your business, greater application flexibility, and innovative technology -- all designed to help you become an On Demand Business. The 55A is available in 2- and 4-core configurations using one or two 2-core 1.65, 1.9, or 2.1 GHz POWER5+ processors. The System p5 550Q is available in 4- and 8-core configurations, using one or two 4-core 1.5 or 1.65 GHz processors. Each processor card has eight DIMM slots. The base 1 GB of main memory can be expanded to 64 GB for faster performance and exploitation of 64-bit addressing as used in large database applications.

Highlights

The System offers:

- 64-bit scalability offering 2-, 4-, and 8-core configurations
- Powerful, symmetric multiprocessing (SMP), on demand server
- Performance and capacity needed by your demanding applications
- Up to 64 GB of memory
- Up to 2400 GB of internal disk storage
- Two slimline media bays for DVD-ROM and DVD-RAM
- One media bay for tape drive



Enterprise Systems

Escala 570

The Escala 570 Rack-mount Server gives you a modular mid-range solution for managing e-business computing requirements. The 570 uses a 4U rack-mounted server drawer as its basic building block and can be configured with one to four drawers in a single rack. With two processor card positions per drawer, the 570 is available in 2-, 4-, 8-, 12-, and 16-way configurations.

The symmetric multiprocessor (SMP) server uses 2-way processor cards with state-of-the-art, 64-bit, copper-based, POWER5+ processors running at either 1.9 GHz or 2.2 GHz. Each processor card has 36 MB of Level 3 cache and 8 slots for memory DIMMs. The base 2 GB of system memory can be expanded up to 512 GB in a four-drawer system.

Each drawer of a 570 system contains six disk drive bays and six 3.3-volt PCI-X slots. With up to 24 disk bays, the model 570 can accommodate up to 3.5 TB of internal disk storage. Each drawer can also hold two DVD-RAM or DVD-ROM drives.

Highlights

The System offers:

- Modular rack-mount design with one to four 4U drawers in a single rack
- 1.9 GHz or 2.2 GHz POWER5+ processors in 2-, 4-, 8-, 12-, and 16-way configurations
- Up to 512 GB of DDR2 memory per system - 128 GB per drawer
- Up to 7.2 TB of internal disk storage
- Up to 24 hot-swap disk bays and 24 hot-swap PCI-X slots
- Up to eight slimline media bays for DVD-ROM and DVD-RAM



Escola 590

The Escola Model 590 provides an expandable high-end enterprise solution for managing e-business computing requirements. The 590 includes both IBM POWER5 and POWER5+ 16-core standard processor books.

The symmetric multiprocessor (SMP) server can be configured with one or two standard 16-way processor books. Each 16-way book contains two 8-way multi-chip modules (MCMs) that use state-of-the-art, 64-bit, copper-based, POWER5 microprocessors. Each pair of processors within an MCM is supported by 1.9 MB of Level 2 cache and 36 MB of Level 3 cache. Each 16-way processor book also includes 16 slots for memory cards and six Remote I/O-2 attachment cards for connection of the system I/O drawers.

Up to eight I/O drawers can be configured on a 590 server. Each I/O drawer contains twenty 3.3-volt PCI-X adapter slots and up to sixteen disk bays. Fully configured, the p5-590 can support 160 PCI adapters and 128 disks at 15,000 rpm.

Highlights

The System offers:

- Rack-mount design with one or two 16-way POWER5 processor books
- Standard POWER5 processors in 16-and 32-way configurations
- Up to 1,024 GB of DDR1 memory or 128 GB of DDR2 memory
- Up to 9,395 GB of internal disk storage
- Up to 128 hot-swap disk bays and 160 hot-swap PCI-X slots
- Redundant power subsystem
- Dynamic logical partitioning (DLPAR) and CoD
- Advanced POWER Virtualization technology



Escaleta 595

The Escaleta Model 595 provides an expandable, high-end enterprise solution for managing the computing requirements needed to become an on demand business. The 595 includes both IBM POWER and POWER5+, 16-core standard and turbo processors books.

The p5-595 is configured as a 42U-tall, 24-inch rack. It is available in 16-, 32-, 48-, and 64-way configurations. It provides memory expansion capability up to 2 TB.

The symmetric multiprocessor (SMP) server can be configured with from one to four standard or turbo 16-way processor books. Each 16-way book contains two 8-way multi-chip modules (MCMs) that use state-of-the-art, 64-bit, copper-based, IBM POWER5 technology microprocessors. Each pair of processors within an MCM is supported by 1.9 MB of Level 2 cache and 36 MB of Level 3 cache. Each 16-way processor book also includes 16 slots for memory cards and six Remote I/O-2 attachment cards for connection of the system I/O drawers.

Up to 12 I/O drawers can be configured on a 595 server. Each I/O drawer contains twenty 3.3-volt PCI-X adapter slots and up to sixteen disk bays. Fully configured, the 595 can support 240 PCI adapters and 192 disks at 15,000 rpm.

Highlights

The System offers:

- Rack-mount design with up to four 16-way POWER5 processor books
- Standard and turbo processors in 16-, 32-, 48-, and 64-way configurations
- Up to 2,048 GB of DDR1 memory or 256 GB of DDR2 memory
- Up to 14,092.8 GB of internal disk storage
- Up to 192 hot-swap disk bays and 240 hot-swap PCI-X slots
- Redundant power subsystem
- Dynamic LPAR and CoD
- Advanced POWER Virtualization technologies



Escala Options

VirtualDR™ D2D2T Appliance

The GST VirtualDR™ backup appliance provides seamless information storage and retrieval for Small-to-Medium Business (SMB) customers. Disk-to-Disk-to-Tape (D2D2T) integrated into an appliance style package with software included, delivers affordable and fast file replication and recovery from disk, with long-term retention and secure archiving on tape.

THE BIG PICTURE

- Supports LTO3 and SAIT1 tape technology.
- Speed: up to 576GB/hr.
- Capacity: up to 13 terabytes
- Includes on-board server and backup software.
- Includes 8 x 400GB disk > 3.2TB native, 6.4TB compressed.
- Reliable backups
- Fast backups
- Fast retrieval
- Simple to use
- Supports Fibre (FC) connections.
- WORM enabled.
- AES Media Encryption



EscaLa DS4 > Storage Drawer

The EscaLa DS4 Storage Drawer provides low-cost disk storage for EscaLa servers.

Abstract

The EscaLa DS4 Storage Drawer is a 19-inch rack-mountable enclosure for use in single and multiple server configurations with 14 drive bays, 2.05 TB maximum capacity, and up to 2 Ultra320 SCSI interface/ports.

Highlights

The Storage Drawer offers SCSI Ultra320 technology disks, that:

- Accommodates up to fourteen hot-swappable SCSI Ultra320 drives
- Provides over two TB of storage capacity per enclosure
- Supports combinations of 36, 73, 146 and 300 GB/10K rpm, and 36, 73 and 146 GB/15K rpm disk drives
- Provides throughput up to 320 MB per second
- Offers options for redundant power and -48 V dc power
- Redundant power and cooling available
- Provides advanced monitoring using SCSI Enclosure Services



Escola S25 > Rack Enclosure

The Escola 1.3-meter-high S25 Rack will satisfy many light-duty requirements for organizing smaller rack-mount systems. Front and rear rack doors include locks and keys, helping keep your servers secure. Side panels are a standard feature, simplifying ordering and shipping. This 25U rack can be shipped configured and can accept system and expansion units up to 28-inches deep.

Highlights

- Has a capacity of 25U (EIA units) and is 1.3 meters tall
- Features lockable front and rear doors
- Supports ac power only

Escola T42 > Rack Enclosure

The Escola T42 is a 2.0 meter rack that will address the special requirements of customers who want a very tall enclosure to house the maximum equipment in the smallest possible floor space. The T42 rack provides 42 EIA units (42U) of usable space. Because of its height, special shipping and handling procedures may be required in some cases.

Highlights

- 42 EIA units (42U) of usable space
- Optional removable side panels
- Optional front door
- Optional side to side mounting hardware for joining multiple racks
- Increased power distribution and weight capacity
- Improved cabling with centered drawers and integrated cable strain relief
- Standard black or optional white color



Escala CR3 > Hardware Management Console

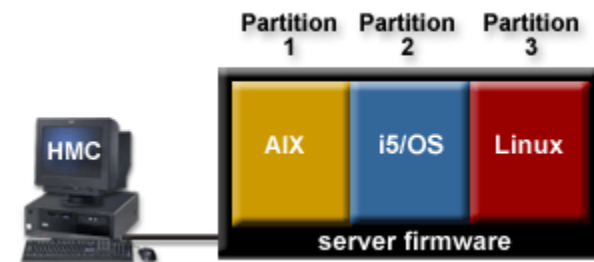
The Escala CR3 Rack-mounted Hardware Management Console (HMC) is a dedicated workstation that allows you to configure and manage partitions and Capacity on Demand on POWER5 servers. An integrated hardware management application helps you configure and partition the server through a GUI.

Highlights

The Escala CR3 Rack-mounted Hardware Management Console (HMC) is a dedicated workstation for system and partition control of ESCALA POWER5 servers.

The HMC delivers:

- Logical partitioning (LPAR) control
- Capacity on Demand resource control
- Creation and storage system and partition profiles
- Boot, start, and stop actions for the system or individual partitions
- Ability to display system and partition resources and status
- An imbedded DVD-RAM for easily creating and storing configuration backup information
- A service focal point with tools for determining problems and providing service support through the Internet or modem
- Renewable Agreement for Machine Control Program Remote Support



Escola D11 > I/O Drawer

The Escola D11 I/O Drawer is a rack-mountable expansion cabinet that can be attached to an Escola 570 system. The D11 drawer is for customers who need more than 24 I/O slots for their 570. Each model D11 drawer gives you six full-length adapter slots. Up to 20 model D11 drawers are supported by the model 570, with connections provided by remote I/O adapters and cables.

The D11 requires 4U of vertical space in a 19-inch rack, such as the Escola T42; two D11 drawers can fit side by side within the enclosure (rack-mounting hardware provided). The Model D11 offers a modular growth path for 570 systems with increasing I/O requirements. When a 570 is fully configured with 20 attached model D11 drawers, the combined system supports up to 143 PCI adapters.

Highlights

The D11 I/O Drawer offers a modular I/O growth path for 570 systems by providing:

- Up to 20 D11 drawers attached to a 570 server
- Up to 120 additional PCI slots for a model 570
- A 4U rack-mount enclosure that holds one or two D11 drawers
- Six hot-plug PCI-X slots, up to 133 MHz
- Enhanced Type II blind swap cassettes for PCI adapters
- Standard, redundant hot-plug power and cooling, with dual line cords
- A two-port remote I/O adapter and cables that provide attachment to a 570 server



Escala D20 > I/O Drawer

The Escala D20 is a rack-mounted, high density expansion drawer that attaches to the Escala midrange and enterprise systems. There are seven hot-swap PCI-X I/O slots in the D20 and twelve optional hot-swap disk drive bays.

The D20 occupies 4U (7.00-inches) of space in a rack and mounts in a 19-inch standard rack drawer. The Model D20 is 24-inches deep. The fans, power supplies, and PCI adapters, are top-accessible while the disk drives are front-accessible for easy service and maintenance.

Highlights

The Escala D20 I/O drawer offers:

- High-density I/O and DASD in one package
- Seven hot-swap PCI-X 64-bit, 133MHz, 3.3 volt I/O slots
- Twelve optional hot-swap disk drive bays consisting of two 6-packs
- 36.4, 73.4, 146.8 and 300 GB Disk Drives
- 6.8" height x 17.0" width x 24.0" depth
- Customer setup and expansion
- Tool-less access to all major system components
- Hot-swap redundant power and fans



Escola TF3 > Rack-Mountable Flat Panel Console

The Escola Model TF3 is a rack-mountable flat panel console kit consisting of a 17-inch 337.9 mm x 270.3 mm flat panel color monitor, rack keyboard tray, Escola Travel Keyboard, support for Netbay LCM switch, and language support.

Highlights

The Escola TF3 Flat Panel Console Kit offers:

- Slim, sleek, lightweight monitor design that occupies only 1U (1.75 inches) in a 19-inch standard rack
- A 17-inch, flat screen TFT monitor with truly accurate images and virtually no distortion
- Ability to mount the Escola Travel Keyboard in the TF3 rack keyboard tray
- Support for the Netbay LCM Switch with access to and control of as many as 64 servers, and support of both USB and PS/2 server-side keyboard and mouse connections



Escola UPS > Uninterruptible Power System

Escola offers standard off the shelf Uninterruptible Power System (UPS) solutions from the top brands in the UPS industry that can be ordered with Escola hardware. These UPS solutions are made available in an effort to improve availability/reliability by minimizing system outages created by power anomalies. MIS managers rate availability/reliability as their number one concern. More than 90% of client/server customers have power protection.

Abstract > Model P30

The Escola Model P30 protects equipment up to 2100 watts. This true online, double-conversion UPS features ABM, which doubles battery service life, load segments for scheduled shutdowns and maximized runtimes and a versatile design that allows the UPS to be mounted as a rack or as a tower.

Abstract > Model P33

The Escola Model P33 rack mount (2700 Watt) is a universal, high-voltage UPS that has been customized for Escola environments delivering advanced power protection in a sleek, compact design. This compact and versatile UPS occupies only 2U of rack space and features ABM, which doubles battery service life, load segments to allow for scheduled shutdowns and maximized runtimes.

Abstract > Model P64

The Escola Model P64 protects equipment up to 4200 watts. This true online, double-conversion UPS features ABM, which doubles battery service life, load segments for scheduled shutdowns and maximized runtimes and a versatile design that allows the UPS to be mounted as a rack or as a tower. Optional Extended Battery Modules (EBMs) FC 6641, prolong battery backup times and ConnectUPS Web/SNMP/xHub card, FC 2934, expands control and monitoring of UPS and network devices.

Abstract > Model P65

The Escola Model P64 protects equipment up to 4200 watts. This true online, double-conversion UPS features ABM, which doubles battery service life, load segments for scheduled shutdowns and maximized runtimes and a versatile design that allows the UPS to be mounted as a rack or as a tower.

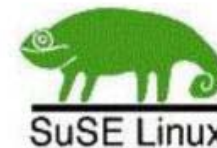


Escola SUSE > Enterprise 9 Server Linux

SUSE LINUX Enterprise Server 9 empowers businesses to leverage Linux and open source by delivering a scalable, high-performance foundation for secure enterprise computing. Built for reliability, it offers comprehensive functionality to power today's networks and meet user demands. SUSE Linux Enterprise Server also supports a broad range of hardware platforms and leading software applications.

Through its unique and open management capabilities, you can easily install, deploy, configure, secure and update Linux servers anywhere on your network—significantly reducing IT costs.

SUSE Linux Enterprise Server 9 is backed by Novell®, giving you a reliable release cycle and a complete enterprise software ecosystem for Linux: technical support, training, consulting, indemnification and an extended partner network. The Novell commitment to open source, combined with our expertise in Linux integration, helps businesses of all sizes deploy Linux quickly and confidently.



Escala ARF > Application Roll-Over Facility

Application Roll-over Facility (ARF), Escala's clustering solution, permits customers to interconnect an unlimited number of servers in a highly available cluster. ARF, appreciated for its ease of use, provides:

- A scalable solution
- Easy node installation and configuration
- Non-stop monitoring
- Easy-to-use flexibility
- Reduced costs
- Professional services

ARF also permits system administrators to easily move an application and its environment from a system to another system, in order to manage system workload issues, for maintenance purposes or in the event of hardware failures, thus facilitating maintenance tasks and reducing planned down time. ARF provides low cost and easy to install application availability for the entire Escala range (running AIX 5.1 or higher).

