**IBM eServer p5 and pSeries Server Summary**

IBM eServer® p5 and pSeries® are innovative UNIX® and Linux® OS servers with mainframe-inspired reliability, availability and autonomic computing capabilities. They are designed for an on demand environment and can tackle diverse tasks ranging from complex engineering design to mission-critical ERP, SCM, CRM, transaction processing and Web serving all the way to massively parallel clustered HPC and BI solutions.

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### pSeries 690

High-end frame-based server designed to deliver leading-edge commercial and scientific performance and enterprise-class RAS, LPAR support and optional CoD capabilities.

- **Processors:** 8-, 16, 24 or 32-way
- **System memory (Max):** 1024GB
- **Internal storage**¹ (Max): 18.7TB
- **PCI slots:** 20 to 160
- **Logical micro-partitions (Max):** 32
- **Performance (rPerf range):** 24.18 to 104.17
- **CoD options:** Processor/Memory CoD, On/Off Processor/Memory CoD, Capacity BackUp, Trial Processor/Memory CoD

### pSeries 655

Mid-range cluster system optimized for high performance computing (HPC) and business intelligence (BI); Ultra-dense packaging provides as many as 128 processors in a single 24-inch system frame.

- **Processors:** 4- or 8-way
- **System memory (Max):** 64GB
- **Internal storage**¹ (Max): 2.3TB
- **PCI slots:** 3 to 23
- **Logical micro-partitions (Max):** 4
- **Performance (rPerf range):** 15.22 to 21.67
- **CoD options:** Processor/Memory CoD, On/Off Processor/Memory CoD, Capacity BackUp, Trial Processor/Memory CoD

### pSeries 760

Mid-range frame-based server designed to deliver outstanding price/performance, scalability and flexibility for mission-critical applications and enterprise-class RAS, LPAR support and optional CoD capabilities.

- **Processors:** 4-, 8- or 16-way
- **System memory (Max):** 256GB
- **Internal storage**¹ (Max): 7.0TB
- **PCI slots:** 20 to 60
- **Logical micro-partitions (Max):** 16
- **Performance (rPerf range):** 13.66 to 46.79
- **CoD options:** Processor/Memory CoD, On/Off Processor/Memory CoD, Capacity BackUp, Trial Processor/Memory CoD

### pSeries 650

Mid-range, rack-mount server designed to deliver unparalleled performance, enterprise-class RAS, LPAR support and optional CoD capabilities.

- **Processors:** 2-, 4-, 6- or 8-way
- **System memory (Max):** 64GB
- **Internal storage**¹ (Max): 14.6TB
- **PCI slots:** 7 to 63
- **Logical micro-partitions (Max):** 8
- **Performance (rPerf range):** 4.00 to 18.67
- **CoD options:** Processor/Memory CoD, On/Off Processor/Memory CoD, Trial Processor/Memory CoD

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¹ Using maximum number of I/O drawers
² 1.65/1.9 GHz p5-570 models
³ 2-way only

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rPerf (Relative Performance) is an estimate of commercial processing performance relative to other pSeries systems. It is derived from an IBM analytical model which uses characteristics from IBM internal workloads, TPC and SPEC benchmarks. The rPerf model is not intended to represent any specific public benchmark results and should not be reasonably used in that way. The model simulates some of the system operations such as CPU, cache and memory. However, the model does not simulate disk or network I/O operations. rPerf estimates are calculated based on systems with the latest levels of AIX 5L and other pertinent software at the time of system announcement. Actual performance will vary based on application and configuration specifics. The IBM eServer® p5 650 is the baseline reference system and has a value of 1.0. Although rPerf may be used to approximate relative IBM UNIX commercial processing performance, actual system performance may vary and is dependent upon many factors including system hardware configuration and software design and configuration. All performance estimates are provided “AS IS” and no warranties or guarantees are expressed or implied by IBM. Buyers should consult other sources of information, including system benchmarks, and application sizing guides to evaluate the performance of a system they are considering buying. For additional information about rPerf, contact your local IBM office or IBM authorized reseller.

IBM's industry-leading storage products, software, services, and financing take the risk out of implementing storage networks. IBM tested and validated solutions help maximize efficiency and reduce costs. So clients can exploit the benefits of new technology and innovations.

**Enterprise Storage Server™**

The IBM TotalStorage® Enterprise Storage Server (ESS) is IBM's premier storage solution for use in Storage Area Networks (SANs).

**Benefits**
- Shared storage for all major types of servers
- Enterprise-strength storage for distributed systems
- High availability to safeguard data access
- Scalability for fast-growing environments
- Enterprise-wide storage management to maximize productivity

**Highlights**
- Provides superior storage sharing for UNIX, Windows NT®, Windows® 2003, Novell NetWare, iSeries™ and zSeries® servers
- Provides high performance with two powerful 4- or 6-way RISC SMP processors, large cache, and serial disk attachment
- Industry-standard, state-of-the-art copy services including FlashCopy®, Peer-to-Peer Remote Copy and Extended Remote Copy-for rapid backup and disaster recovery
- Provides fast data transfer rates with attached hosts via Fibre Channel, UltraSCSI, ESCON and FICON interfaces

**IBM 7133 Models D40 and T40**

- Outstanding disk storage performance with advanced SSA bandwidth of 160MB/sec.
- High availability with redundant data paths, redundant cooling units, and two power supplies
- High capacity - up to 2.3TB per tower or drawer and 14TB per host adapter
- 18.2, 36.4, 72.8 and 145.6GB drives

**FASIT Storage Server**

IBM FASIT Storage Server is a full-fibre, storage area network (SAN) solution for UNIX, Windows, Linux and Novell NetWare that delivers performance and reliability at the right price.

- High performance with high-bandwidth connectivity and high-availability design
- Capacity scales to over 56TB (FASIT900) using flexible combinations of 18.2, 36.4, 73.4 and 146.8GB drives
- Broad range of data protection options with RAID levels 0, 1, 3, 5, 10
- Options for FlashCopy, VolumeCopy and Remote Mirroring

**IBM 2105 Model 800**

- 582GB to 55.9TB (usable) capacity
- Fault-tolerant, RAID, redundant power/cooling, hot-swappable drives, dual controllers, concurrent microcode update, dual pathing driver
- Remote Copy (XRC and PPRC), FlashCopy, Concurrent Copy
- Up to 32 SCSI or ESCON® ports, up to 16 Fibre Channel / FICON ports and intermixed configurations
- Direct, FC-AL, Switched Fabric
- 18.2, 36.4, 73.4 and 146.8GB drives
- Offers Standby Capacity on Demand

**Expandable Storage Plus**

The IBM 2104 Expandable Storage Plus (ExpPlus) U320 disk enclosure offers flexible, scalable, and low-cost disk storage for pSeries servers running AIX® or Linux in a compact rack-mount or tower package.

**IBM 2104 Models DS4 and TS4**

- High-performance Ultra320 SCSI disk storage with up to 320MB/sec throughput
- Scales from up to 2055GB of capacity per enclosure (drawer or tower) to more than 28TB per rack
- Each enclosure contains up to 14 disk drives, with capacities of 36.4, 73.4 and 146.8GB per drive
- -48v DC voltage (Model DS4 only)

**Tape**

The IBM TotalStorage Enterprise Tape System provides the highest levels of performance and reliability of any IBM tape subsystem and exemplifies IBM's continued leadership in storage products.

**3494 Enterprise Automated Tape Library**

- Up to 76 drives; Up to 6240 cartridges; Up to 1123TB compressed.
- 3494 Enterprise Automated Tape Library: 3 to 6 drives; Up to 288 cartridges; Up to 576TB compressed.
- IBM 7133 Models D40 and T40
- IBM 3592 Enterprise Tape Drive:
  - 3592 Enterprise Tape Library: 1 to 6 drives; Up to 72 cartridges; Up to 96TB compressed.
  - IBM 3592 Enterprise Tape Drive: 1 to 12 drives; Up to 288 cartridges; Up to 576TB compressed.
- IBM 3583 Ultrium Scalable Library:
  - 3583 Ultrium Scalable Library: 1 to 6 drives; Up to 72 cartridges; Up to 28TB compressed.
  - 3584 Ultrium Ultra-Scalable Library: 1 to 192 drives; Up to 6,881 cartridges; Up to 2,752TB compressed.

**LTO**

LTO brings unprecedented levels of reliability, capacity and performance to scalable automation for open systems tape backup.

**3580 Ultrium Tape Drive**

- 200GB capacity, 400GB compressed.
- 3581 Ultrium Tape Autoloader: 7 cartridges; Up to 2.8TB compressed.
- 3582 Ultrium Tape Library: 1 to 2 drives: Up to 24 cartridges; Up to 9.6TB compressed.
- 3583 Ultrium Scalable Library: 1 to 6 drives; Up to 72 cartridges; Up to 28.8TB compressed.
- 3584 Ultrium Ultra-Scalable Library: 1 to 192 drives; Up to 6,881 cartridges; Up to 2,752TB compressed.

**DLT**

DLT delivers fast and dependable tape backup, restore and archive functions in a pSeries environment.

**7205 DLT Tape Drive**

- 160GB capacity, 320GB compressed

In addition, IBM offers a range of tape storage products based on industry standard technologies such as 4 mm or 8 mm tape and QIC.