

Reduce complexity and enhance productivity with the world's first
POWER5-based server



IBM *@server* i5 570



Highlights

- ***Integrated management helps reduce complexity and increase the range of applications available to enhance business innovation***
- ***Efficient use of resources, helps boost productivity and lower management costs***
- ***Upgrade paths from earlier models provide outstanding investment enhancement***

In today's on demand world, medium and large corporations face increasing pressure to meet rising customer expectations with fewer resources and tighter budgets than ever before. A true on demand business is one that can respond effectively to market opportunities and external threats. How?

Through an IT infrastructure that can adapt quickly to changing business objectives. We call this infrastructure an on demand operating environment.

Designed for the complex requirements of medium to large enterprises, the IBM *@server*® i5 570 server—a new member of the IBM *@server* iSeries™

family—can help businesses reduce data center complexity, simplify their infrastructures and effectively manage IT service level commitments. A highly scalable, upgradeable, industry-standard rack-optimized building block architecture helps support balanced growth from 1-way to 16-way servers. Capacity on Demand features enable companies to switch on extra power at a moment's notice to handle surges in demand.

Advanced virtualization technologies enable IBM *@server* i5 570 servers to run multiple operating systems and application environments simultaneously—including IBM i5/OS™ (the next generation of IBM Operating System/400®), Linux®, IBM AIX 5L™, Microsoft® Windows (via an IXA or IXS), Java™, WebSphere® and Lotus® Domino® software. With the capacity to support up to ten dynamic partitions

per processor, IBM @server i5 servers can help simplify infrastructures by allowing companies to deploy new applications and consolidate operations on a single, highly flexible, resilient server.

Achieve leadership performance and efficiency with IBM POWER architecture

Based on IBM POWER5™ processors—the ninth generation of IBM 64-bit processor technology—IBM @server i5 servers can enable large businesses to seamlessly upgrade their processing power while continuing to use their investments in storage and networking infrastructure. The proven, open and flexible design of POWER processors builds on the iSeries family tradition of integration, virtualization and outstanding systems management technology to bring new levels of functionality and simplicity to today's on demand world. And of course, you can upgrade into these new servers from many earlier iSeries server models.

In addition, IBM @server i5 570 servers incorporate IBM Virtualization Engine™ systems technology, which is designed to pool resources and optimize their use across multiple application environments and operating systems. Through advanced dynamic LPAR capabilities, IBM @server i5 570 servers can help support easy administration and rapid adjustment to changing business priorities—giving companies the freedom to run a wide variety of business applications without the costs and complexity often associated with managing multiple servers.

Enhance productivity with resource virtualization

The iSeries family is equipped with a range of workload management and Capacity on Demand features designed to enable businesses to adjust workloads and performance dynamically—even automatically—to meet constantly shifting business priorities. The workload management tools incorporated into i5/OS give companies the option to

run multiple subsystems, allowing administrators to enhance productivity by balancing the processing priorities for different applications running within the same operating system (OS) image.

In addition, businesses in a variety of industries experience short-term spikes in processor utilization. Retail and travel firms, for example, often see surges in transaction volume during the holidays. LPAR enables IBM @server i5 servers to adjust pooled processor and storage resources automatically across operating systems by borrowing processing power or storage space from idle partitions to help handle high transaction volumes in other partitions. Instead of buying and maintaining excess capacity that goes unused most of the year, these companies can use On/Off Capacity on Demand to match processing needs to peak transaction loads.

Description					
Processor	1/2-way POWER5	2/4-way POWER5	5/8-way POWER5	9/12-way POWER5	13/16-way POWER5
Edition	Standard or Enterprise	Standard or Enterprise	Standard or Enterprise	Standard or Enterprise	Standard or Enterprise
Processor Commercial Processing Workload (CPW)	3300 - 6000	6350 - 12000	15200 - 23500	25500 - 33400	36300 - 44700
5250 OLTP CPW	0 or max	0 or max	0 or max	0 or max	0 or max
Memory (max)	64GB	128GB	256GB	384GB	512GB
Disk Capacity (max)	19TB	38TB	58TB	77TB	96TB
Disk Drives (max)	276	546	822	1098	1374
i5/OS included	Yes	Yes	Yes	Yes	Yes
Software Tier	P30	P30	P40	P40	P40
Windows Server, Linux, AIX 5L Capable	Yes	Yes	Yes	Yes	Yes
Rack-Optimized Design	Yes	Yes	Yes	Yes	Yes
Integrated xSeries® Servers (max)	18	36	48	48	48
Integrated xSeries Adapters (max)	8	16	32	48	60
LPARS (max i5/OS, AIX 5L, Linux)	20	40	80	120	160
High Speed Link (RIO/HSL) Loops	1	2	4	6	8
I/O Towers	6	12	18	24	30
PCI Cards Slots (max)	90	173	269	359	443
LAN Ports (max)	71	96	128	128	128

iSeries can also help you manage your Windows and Linux server environments. Advanced IBM @server i5 storage architecture can provide more flexibility than conventional Windows and Linux server implementations, in which dedicated disk drives are typically attached to every server and a network administrator must manage each server's capacity separately. With the IBM @server i5 570 server, all disks can be managed as a single pool of RAID-5 or mirrored, protected storage—helping to simplify data administration and improve productivity by boosting storage utilization rates.

Select from highly versatile editions

To help simplify the decision process and maximize business value, IBM @server i5 servers come in flexible packages: the most commonly chosen are the Standard Edition and the Enterprise Edition. Each edition incorporates a set of software licenses and hardware features designed to help meet the particular e-business demands of medium to large enterprises.

The Standard Edition includes i5/OS for startup processors, supports Web-based applications (including modernized 5250 OLTP applications) and is designed to run multiple operating systems and LPARs. The Enterprise Edition extends the capabilities of the Standard Edition with a range of additional software and hardware features, including data center management and e-business tools. The Enterprise Edition also includes support for 5250 OLTP applications.

The model 570 also offers High Availability Editions and a Capacity BackUp Edition. These are specialized editions optimized for business continuity applications.

For more information

To learn more about the IBM @server i5 570 server contact your IBM representative, IBM Business Partner or visit the following Web site:

ibm.com/eserver/iserries



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Route 100
Somers, NY 10589

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July 2004
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