



Netfinity Server

IBM

The IBM Netfinity[®] Server Family

*Powered to perform, scaled for growth, within
your control and at your service.*

Netfinity[∞]



 e-business tools

IBM Netfinity Servers

Today, the power of Intel® processor-based servers is increasing to the point where these systems are taking on many of the tasks once managed solely by larger, “enterprise-class” servers. In response to this requirement, IBM has harnessed the expertise and experience that went into building our enterprise systems and applied it to the industry-standard server environment. We’ve enriched our Intel processor-based servers with tools and solutions to help you control your environment more precisely, with less effort than ever before. Designed to meet your changing business needs, Netfinity servers offer solutions for small and medium businesses, e-business, business intelligence (data warehousing, data mining) and large enterprises. The Netfinity servers themselves are just part of a full lineup of compatibility-tested and specially designed options that make it possible to extend the capacity and function of your system.

Netfinity 3000

This entry-level server is the choice for small businesses that require a powerful department or branch office file-and-print and application server.

- Single processor design—up to 450MHz¹ Intel Pentium® II
- Wide Ultra SCSI controller and integrated 10/100Mbps Ethernet
- 100MHz ECC memory for data protection and system integrity



Netfinity 3500

The award-winning Netfinity 3500 server is the ideal system for entry-level enterprise customers who need a powerful database or application server.

- Two-way symmetric multiprocessing (SMP)
- Dual-channel Wide Ultra SCSI controller
- ECC memory and integrated 10/100Mbps Ethernet



Netfinity 5000

Offering powerful performance at an entry-level price, the versatile Netfinity 5000 is an excellent choice for e-business, small-to-medium business application and file serving, and large enterprise application serving.

- Intel Pentium II processors up to 450MHz, a 100MHz front-side bus and 2-way SMP
- Scales up from 64MB to 1GB of ECC SDRAM
- Accommodates up to five hot-plug hard disk drives
- Built-in Netfinity Advanced System Management processor and innovative light-path for diagnostics to enhance availability
- Integrated 10/100 Mbps Ethernet



Redefining power and availability

Netfinity 5500, 5500 M10, 5500 M20



Powerful, high-availability Netfinity 5500 family of servers are an excellent choice for your critical operations, including e-business, business intelligence, large enterprise applications, and in support of fast-growing, small-to-medium businesses or departments. Now available in three models—the 5500, 5500 M10 and 5500 M20—to give you flexible scalability at a price that's right for you.

- Award-winning² Netfinity 5500 2-way SMP server driven by up to 450MHz Intel Pentium II processors with an integrated 100MHz front-side bus
- 2-way Netfinity 5500 M10 and 4-way Netfinity 5500 M20 SMP configurations with up to 450MHz Pentium II Xeon™ processors and up to 4GB of memory support
- Self-monitoring, redundant and hot-plug components, including hot-plug and hot PCI for enhanced availability
- Built-in Netfinity Advanced System Management Processor with Netfinity Manager remote management software and light-path diagnostics
- Integrated dual channel RAID and 10/100 Ethernet



IBM Netfinity 5500

Netfinity 7000 M10



With the introduction of the Netfinity 7000 M10, you get an enterprise server that is powerful and reliable enough to handle massive, business-critical large enterprise, e-business or business intelligence applications.

- Up to 4-way SMP and up to 450MHz Pentium II Xeon processor
- The highest performance benchmark ever³ for an Intel processor-based system
- System self-monitoring, Predictive Failure Analysis®, redundant and hot-plug components
- Light-path diagnostics to enhance availability
- Netfinity Advanced System Management PCI Adapter for remote management and capacity planning
- 12 available hot-plug, hot-add PCI slots
- Up to 8GB, 8-way interleaved ECC memory
- Chipkill memory enhances memory availability by up to 100 times over standard ECC memory



Enterprise Storage Solutions

External storage is easy to implement with the range of IBM Netfinity storage solutions available to meet your every business need.

Hard disk drives

Not only did IBM invent magnetic disk storage, we currently hold some 650 disk drive patents for such advances as MR (magneto-resistive) Heads, No ID sector formatting and more. Today, our line of hard disk drives includes a wealth of sizes and interfaces, including hot-plug hard drives, with storage capacities up to 36.4GB⁴ running at rotational speeds up to 10,000rpm.

Tape backup/disaster recovery solutions

For speed, flexibility, affordability, scalability and, of course, reliability, you need the advantage of proven IBM tape backup technology. All tape drives for Netfinity servers ship with award-winning Seagate Backup Exec software to handle your enterprise backup chores. And, when your data backup needs to expand, consider IBM tape libraries, which deliver up to 1,050GB of data backup capability. With the new Netfinity NetMEDIA Storage Expansion Unit EL, your options for external storage are greatly increased. When used with the Netfinity NetMEDIA Systems Management Adapter, you can easily achieve tape mirroring or arrays.

Netfinity Rack and stack storage

Up to three NetBAY3™ stackable enclosures can sit under your Netfinity 5500 and 7000 M10 tower models as your system requirements grow. Our latest rack offering, the NetBAY22, may be the next step as your business grows. For even larger storage needs, the full-height Netfinity Rack is 42U⁵-high and builds easily into a full rack suite. For example, by using the IBM Netfinity EXP15 storage expansion unit within the IBM Netfinity Rack, you get up to 5,096GB of storage in a single rack. From there, the transition to a rack suite—without sacrificing access to subsystems or cables—is determined by your business needs.

Netfinity ServeRAID

Check out the IBM Netfinity ServeRAID™ 3H and 3L Ultra2 SCSI adapters. For busy network environments or for departmental use, the Netfinity 5500 server (with its own internal RAID) paired with the single-channel ServeRAID 3L can control up to 15 external devices. The top-of-the-line ServeRAID 3H adapter provides three SCSI channels, controlling a total of up to 45 devices. With 32MB of dedicated cache, the ServeRAID 3H has plenty of flexibility to grow with you.

Fibre Channel—the next generation

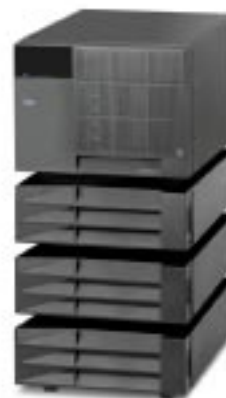
As your requirements for storage size and security increase, consider Netfinity Fibre Channel storage solutions designed as the large enterprise storage solution. For environments where availability and performance are critical, we've built in hot-pluggable redundant fans and power supplies, GB interface converters, and a 64/32-bit PCI-to-Fibre Channel Arbitrated Loop (FCAL) adapter. IBM Netfinity Fibre Channel supports distances up to 10km (6 miles) and data transmission rates of up to 100MBps.



*Netfinity 42U³
Full-Height Rack*



*Netfinity NetBAY22
Half-Height Rack*



*Netfinity NetBAY3
Stackable Enclosure*

Systems Management

Control your network, control your business

A cornerstone of the Netfinity family is a hardware and software architecture that proactively monitors your servers to identify and correct problems before they occur. This capability is extended by an integrated system management processor—included as standard with your purchase of selected Netfinity server systems—that provides extensive remote management capabilities that improve high availability. IBM Netfinity Manager™ software (at no additional charge with your Netfinity server) provides seamless integration with robust enterprise and workgroup management systems, including Tivoli® Management Software, Microsoft SMS and Intel LANDesk.® The result? You can focus on running your business instead of running your network.



Clustering solutions

Choose a high-availability clustering solution built around features that work together to provide nonstop performance. Based on industry-standard technologies, clustering solutions for Microsoft® Windows NT,® Novell NetWare and OS/2® can allow you virtually uninterrupted access to your applications even if the server fails.



Unrivaled service and support

Netfinity systems come with the acclaimed service and support you expect from IBM:

90-day IBM Start Up Support—Get assistance with the technical challenges associated with the installation of new systems for the first 90 days of your warranty period at no additional charge.

Three-year on-site limited warranty⁶—To provide the support you might need. In addition, any Options by IBM peripherals assume the warranty of the Netfinity server on which they are installed.

MoST Connect—Mobile service terminal links you to an expert IBM HelpCenter diagnostician for quicker problem identification, resource deployment and resolution.

Remote Connect⁷—Selected Netfinity servers can activate an automated “call home” to IBM to assist with problem resolution.

Update Connector—Identifies current and appropriate updates, device drivers and BIOS for your attention and action. Downloads your choices to your server via the Internet.

ServerGuide—Included at no additional charge, ServerGuide enables rapid loading of major network operating systems and simplifies hardware configuration.

IBM SystemXtra[™]—Get a packaging and payment schedule to suit your requirements, through IBM SystemXtra, a customized solution combining PC hardware, software, training, services and flexible total-package financing with a single monthly invoice. With the SystemXtra Technology Exchange Option lease, you may qualify to update your Netfinity server after only two years.⁸

Netfinity Solutions

<p>Options by IBM www.ibm.com/pc/us/accessories</p>	<p>The established way to add capacity and function to your Netfinity server with a wide range of options specifically designed and optimized for your Netfinity system. Options by IBM also offer the added benefit of assuming the three-year warranty term of the Netfinity server system they are installed on to provide seamless warranty coverage.</p>
<p>ServerProven⁹ www.ibm.com/pc/us/netfinity/serverproven</p>	<p>To provide a broad selection of easy-to-install-and-use software and hardware, IBM's Netfinity ServerProven program works with vendors to test hundreds of products, options, network operating systems and applications. You can be confident in selecting ServerProven solutions and applications from industry-leading software vendors proven to work on Netfinity servers.</p>
<p>The best in the business working together</p>	<p>As an integral part of system design, IBM brings the best in the business together for you through strategic alliances with key industry leaders. To find out more, visit the alliance Web site.</p>
<p>Need more information?</p> <p>Family Brochure Enterprise Storage Solution Fibre Channel Solution Systems Management Service and Support ServerProven Solutions</p> <p>Netfinity Support TechConnect¹⁰ SystemXtra</p>	<p>IBM Reseller and General: 1 800 426-7255 ext. 4752 (U.S.), 1 800 426-2255 (Canada)</p> <p>IBM Fax Information Service: 1 800 IBM-3395 (U.S.), 1 800 465-3299 (Canada)</p> <p>Doc#43010 (U.S.), Doc#45470 (Canada)</p> <p>Doc#43114 (U.S.), Doc#45486 (Canada)</p> <p>Doc#43044 (U.S.), Doc#45469 (Canada)</p> <p>Doc#43011 (U.S.), Doc#45468 (Canada)</p> <p>Doc#43031 (U.S.), Doc#45487 (Canada)</p> <p>Doc#43047 (U.S.), Doc#45473 (Canada)</p> <p>World Wide Web: www.ibm.com/netfinity www.ibm.com/pc/support www.ibm.com/pc/techconnect www.ibm.com/pc/us/systemxtra</p>
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IBM Personal Systems Group
Department LO6
3039 Cornwallis Road
Research Triangle Park, NC 27709

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- ¹ MHz only measures internal clock speed, not application performance. Many factors affect application performance.
- ² IBM's Netfinity 5500 enterprise server was awarded the "Best of the Best" by PC Week's 1998 Winner's Circle Awards, June 17, 1998 at PC Expo, New York, New York.
- ³ Published TPC-D results as of 6/29/98. Subject to change without notice. For more information see www.tpc.org IBM test performed using DB2 Universal Database 5.2.0. Planned availability for the Netfinity 7000 M10 model 8680-2RU and for DB2 Universal Database 5.2.0 is 10/31/98. TPC Benchmark, TPC-D, are trademarks of the Transaction Processing Performance Council.
- ⁴ When referring to hard drive capacity, GB equals one billion bytes. Total user-accessible capacity may vary depending on operating environments.
- ⁵ A single "U," or rack unit, is 1.75" or 44.45mm.
- ⁶ For terms and conditions or copies of IBM's limited warranty, call 1 800 772-2227 in the U.S. and in Canada, call 1 800 426-2255. Limited warranty includes International Warranty Service in those countries where this product is offered. Telephone support may be subject to additional charges.
- ⁷ Available on Netfinity 5000, 5500, 5500 M10, 7000 and 7000 M10 only.
- ⁸ If you qualify and subject to conditions. Eligibility for the Technology Exchange Option is based on total IBM hardware acquisition commitment for a 12-month period; minimum qualifying levels apply.
- ⁹ IBM makes no warranties, express or implied, regarding non-IBM ServerProven products and services, including but not limited to Year 2000 readiness and any implied warranties of merchantability and fitness for a particular purpose.
- ¹⁰ You may enroll in the TechConnect program from this web site.

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IBM Netfinity servers are assembled in the U.S., Great Britain, Japan, Australia and Brazil and are comprised of U.S. and non-U.S. components.

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