



## Performance Brief

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### **New Netfinity 5500 M20 Delivers Powerful Performance for Enterprise Network Computing**

**August 1999**

*IBM Netfinity\* 5500 M20 servers provide exceptional functionality and performance to the midrange server marketplace. The new 550MHz<sup>1</sup> Pentium\*\* III Xeon\*\* models of the Netfinity 5500 M20 are high-availability, four-way SMP servers that offer outstanding throughput for business-critical applications. These new models, announced worldwide in August 1999, feature the powerful Intel\*\* Pentium III Xeon microprocessor with 512KB or 1MB of ECC L2 cache and 100MHz operations to memory.*

*The 550MHz system (Model 8662-61Y) was evaluated using Ziff-Davis' ServerBench\*\* Version 4.02 benchmark. For comparison, the IBM Netfinity server performance laboratory also conducted the benchmark with the 500MHz/1MB model of the Netfinity 5500 M20.*

*All results from these benchmarks are presented in this report.*

#### **ServerBench 4.02**

The Netfinity 5500 M20 / 550MHz server achieved a peak level of transactions per second that was **8 percent** higher than that of the 500MHz server.

ServerBench 4.02 was used to measure the performance of the Netfinity 5500 M20 550MHz and 500MHz systems as four-way application servers running Microsoft\*\* Windows\*\* NT Server 4.0.

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## Test Environments and Results

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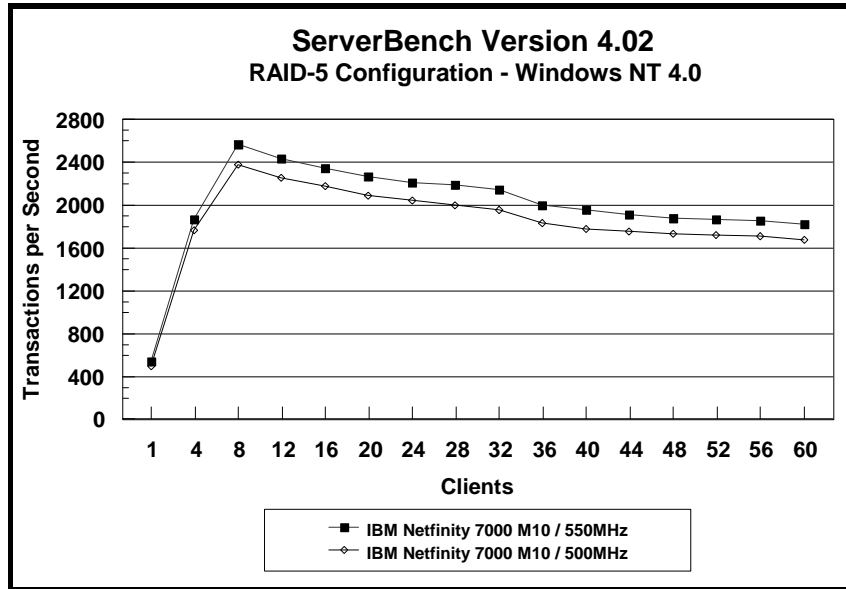
### ServerBench 4.02

Ziff-Davis' ServerBench 4.02 test suite SYS\_60.TST was used to measure the performance of the IBM Netfinity 5500 M20 550MHz and 500MHz systems as four-way application servers running Windows NT Server 4.0.

ServerBench 4.02 provides an overall transactions-per-second (TPS) score showing how well the server handles client requests for a variety of operations involving the server's processors, disk and network subsystems.

Features	IBM Netfinity 5500 M20 / 550MHz	IBM Netfinity 5500 M20 / 500MHz
Processor / L2 Cache	Four 550MHz / 1MB Pentium III Xeon	Four 500MHz / 1MB Pentium III Xeon
Memory	1GMB ECC SDRAM	1GB ECC SDRAM
RAID Level	RAID-5	RAID-5
Disk Drive	Five 9.1GB 10K Wide Ultra SCSI Drives	Five 9.1GB 10K Wide Ultra SCSI Drives
Disk Drive Adapter	One Wide Ultra SCSI RAID Controller	One Wide Ultra SCSI RAID Controller
Disk Driver	ISPRAIDN.SYS	ISPRAIDN.SYS
Network Adapter	Four Netfinity 10/100 Ethernet Adapters	Four Netfinity 10/100 Ethernet Adapters
Network Driver Version	Netfinity 10/00 Ethernet Version 3.01	Netfinity 10/00 Ethernet Version 3.01
NOS	Windows NT Server 4.0 with Service Pack 3	Windows NT Server 4.0 with Service Pack 3
System Partition Size	1GB	1GB
File System	NTFS	NTFS
Allocation Unit Size	Predefined Default	Predefined Default
Test Suite	ServerBench 4.02 SYS_60.TST	ServerBench 4.02 SYS_60.TST

The Netfinity 5500 M20 / 550MHz server achieved a peak level of transactions per second that was **8 percent** higher than that of the 500MHz server.



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# Test Disclosure Information

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## ServerBench 4.02

**Version:** ServerBench 4.02

**Mixes:**

- System Test Mixes
- Clients: 1, 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60
- Ramp up: Default setup
- Ramp down: Default setup
- Delay: 0
- Think: 0
- Data Segment Size: 16MB
- Segment Access Ratio: 1

**Network Operating System:** Microsoft Windows NT Server 4.0 with Service Pack 3

- Network speed: 100Mbps
- Duplex mode: Full

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## Testbed Disclosure

The Netfinity 5500 M20 / 550MHz model is planned to be available August 31, 1999, in the USA. All other products used for these measurements are shipping versions available to the general public. All measurements were performed without independent verification by Ziff-Davis.

<b>Network</b>	100Mbps Ethernet
<b>Clients</b>	60
<b>Switches</b>	IBM 8275 100Mbps Ethernet
<b>Clients per Segment</b>	15
<b>CPU / Memory</b>	133MHz Pentium / 32MB
<b>Network Adapter</b>	IBM 100/10 PCI Ethernet Adapter (Bus 0)
<b>Software</b>	Windows NT Workstation 4.0
<b>Cache</b>	L2 = 256KB
<b>Controller Software</b>	Windows NT Workstation 4.0 with SP5

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#### **Notes**

<sup>1</sup> MHz denotes the internal/external clock speed of the microprocessor only, not application performance. Many factors affect application performance.

<sup>2</sup> When referring to hard disk capacity, GB, or gigabyte, means one thousand million bytes. Total user-accessible capacity may vary depending on operating environment.

