# SPECweb96 Result

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# IBM Netfinity 7000 M10

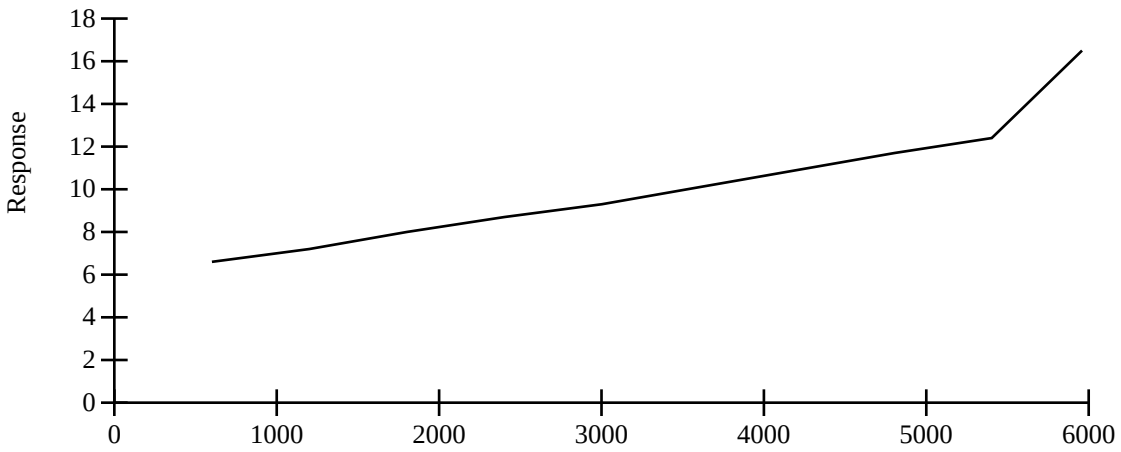
SPECweb96= 5959

Test Date : Mar-1999

Tested by : IBM

| Hardware Avail: | Mar-1999 | OS Avail: | Aug-97 | HTTP Software Avail: | Jun-99 | SPEC license #: | 11 |
|---|---|---|---|---|---|---|---|

| Throughput ops/sec | Response msec |
|---|---|
| 601 | 6.6 |
| 1201 | 7.2 |
| 1802 | 8.0 |
| 2403 | 8.7 |
| 3003 | 9.3 |
| 3603 | 10.1 |
| 4204 | 10.9 |
| 4805 | 11.7 |
| 5403 | 12.4 |
| 5959 | 16.5 |




## Hardware

| | |
|---|---|
| Model Name: | Netfinity 7000 M10 |
| Processor: | 500MHz Pentium III Xeon |
| # of Processors: | 1 |
| Primary Cache: | 32KB |
| Secondary Cache: | 2MB |
| Other Cache: | None |
| Memory: | 2GB |
| Disk Subsystem: | 4 9.1GB 10K RPM drives |
| Disk Controllers: | Wide Ultra SCSI |
| Other Hardware: | None |

## Software

| | |
|---|---|
| Operating System: | Windows NT Server 4.0 |
| File System: | NTFS |
| Other Software: | None |

## HTTP Software

| | |
|---|---|
| Vendor: | IBM |
| HTTP Software: | IBM HTTP Server using Apache 1.3.3 |
| # of "threads": | 1 |
| Server Cache: | FRCA (Integrated) |
| Log Mode: | Combined |

## Network

| | |
|---|---|
| # of Controllers: | 2 |
| Network Controllers: | Alteon ACEnic Gigabit Ethernet Adapter |
| # of Nets: | 2 |
| Type of Nets: | Jumbo Frame Gigabit |
| Network Speed: | 1000 Mb |
| Time Wait (secs): | 60 (Non RFC1122) |

## Load Generators

| | |
|---|---|
| # of Load Generators: | 8 |
| # of Processes Each: | 13 |
| Model: | Intellistation Z Pro |
| Processor: | 450Mhz Pentium II Xeon |
| # of CPUs: | 2 |
| Memory: | 256MB |
| OS: | Windows NT Workstation 4.0 + SP4 + TCP/IP hotfix. |
| Compiler: | None |

## Benchmark Configuration

| | |
|---|---|
| Max Requested Load: | 6000 |
| Max Fileset Size (MB): | 1694 |

## Notes/Tuning Information

```
ACEswitch 180 Gigabit switch supporting 9018 byte frames
MTU size = 9000 bytes
IBM HTTP Server using Apache v1.3.3 configured to use integrated FRCA cache.
Performance Boost for Foreground Application=NONE (Do not raise foreground application priority, default: half)
Tcpip/Parameters/TcpTimedWaitDelay=0x3c (Set TIME_WAIT to 60 seconds, default: 240)
Tcpip/Parameters/MaxUserPort=0xfffe (Set maximum port number used to 65534, default: 5000)
Tcpip/Parameters/MaxFreeTWTcbs=0x5f370 (Increase TCB timewait table to 390,000 entries, default: 2000)
Tcpip/Parameters/MaxHashTableSize=x10000 (Set TCB hash table size to 65,536 entries, default: 512)
NDIS/Parameters/ProcessorAffinityMask=0 (Interrupt and DPC affinitized to same processor, default: any processor)
1 disk for OS/pagefile, 3 striped disks for web pages and logs
For each Alteon NIC:
Altndis(X)/Parameters/SendCoalMax=0x14 (Max buffer descriptors sent before updating send producer index, default: 333)
Altndis(X)/Parameters/RecvCoalMax=0x28 (Max buffer descriptors receive before updating receive producer index, default: 333)
Altndis(X)/Parameters/SendCoalTicks=0x3e8 (Max clock ticks (in usec) the NIC waits before updating send producer index, default: 2)
Altndis(X)/Parameters/RecvCoalTicks=0x3e8 (Max clock ticks (in usec) the NIC waits before updating receive producer index, default: 2)
Network interrupts affinitized one NIC per CPU
Post SP4 hotfix for TCP/IP installed (144,624 bytes)
```

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