SPECweb96 Result

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IBM
Netfinity 7000 M10

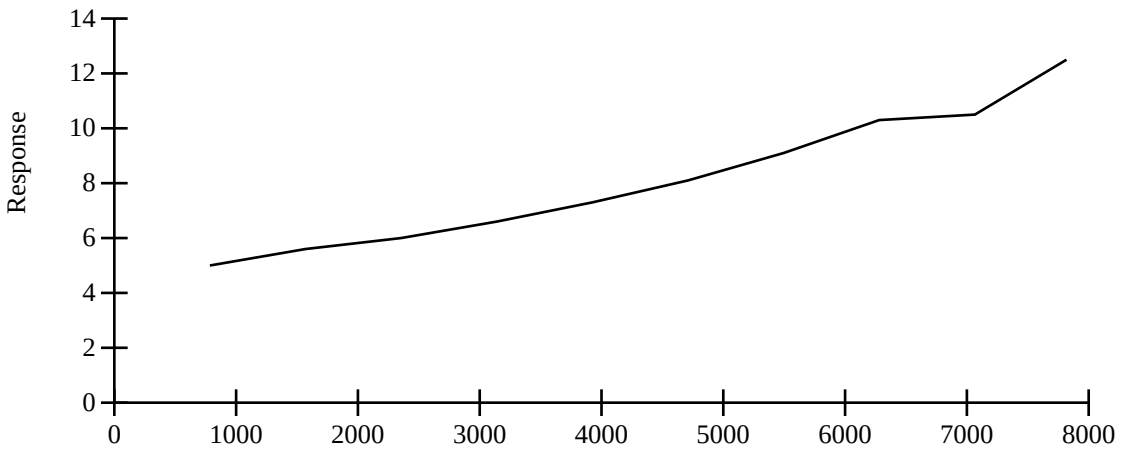
SPECweb96= 7818

Test Date : Jan-98

Tested by : IBM

Hardware Avail:	Jan-98	OS Avail:	Nov-98	HTTP Software Avail:	Mar-99	SPEC license #:	11

Throughput ops/sec	Response msec
785	5.0
1570	5.6
2355	6.0
3140	6.6
3925	7.3
4710	8.1
5496	9.1
6280	10.3
7066	10.5
7818	12.5



Hardware

Model Name:	Netfinity 7000 M10
Processor:	450MHz Pentium II Xeon
# of Processors:	4
Primary Cache:	32KB
Secondary Cache:	2MB
Other Cache:	None
Memory:	2GB
Disk Subsystem:	4 4.51GB 7200 RPM drives
Disk Controllers:	1 Wide Ultra SCSI
Other Hardware:	2 Alteon ACEswitch 180

Software

Operating System:	Windows NT Server 4.0 EE + SP4
File System:	NTFS
Other Software:	None

HTTP Software

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

Network

# of Controllers:	4
Network Controllers:	Alteon ACEnic PCI Gigabit
# of Nets:	4
Type of Nets:	Jumbo Frame Gigabit
Network Speed:	1000 Mb
Time Wait (secs):	60 (Non RFC1122)

Load Generators

# of Load Generators:	10
# of Processes Each:	11
Model:	Intellistation M Pro
Processor:	400Mhz Pentium II
# of CPUs:	2
Memory:	128MB
OS:	Windows NT Workstation 4.0 + SP4 + Post SP4 TCP/IP hotfix.
Compiler:	None

Benchmark Configuration

Max Requested Load:	7850
Max Fileset Size (MB):	1938

Notes/Tuning Information

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ACEswitch 180 Gigabit switch supporting 9018 byte frames
Each Alteon ACEswitch 180 connects two cards in the SUT and two/three clients each
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, default: 5000)
Tcpip/Parameters/MaxFreeTWTcbs=0x75300 (Increase TCB timewait table to 480,000 entries, default: 2000)
Tcpip/Parameters/MaxHashTableSize=0x10000 (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 received 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)
```

For More Information contact

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