SPECweb96 Result

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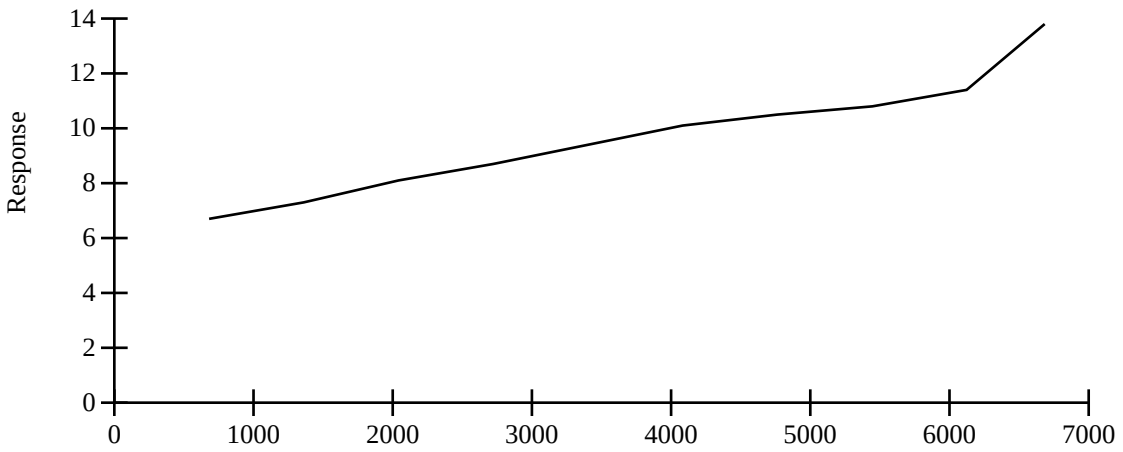
IBM
Netfinity 5500 M20

SPECweb96= 6684
Test Date : Mar-99
Tested by : IBM

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

Throughput ops/sec	Response msec
681	6.7
1361	7.3
2042	8.1
2722	8.7
3403	9.4
4083	10.1
4763	10.5
5446	10.8
6123	11.4
6684	13.8



Hardware

Model Name:	Netfinity 5500 M20
Processor:	500MHz Pentium III Xeon
# of Processors:	2
Primary Cache:	32KB
Secondary Cache:	1MB
Other Cache:	None
Memory:	2GB
Disk Subsystem:	4 9.1GB 10K RPM drives
Disk Controllers:	Wide Ultra SCSI
Other Hardware:	2 Alteon ACEswitch 180

Software

Operating System:	Windows NT Server 4.0
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:	2
Network Controllers:	Alteon ACEnic PCI Gigabit
# 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:	12
Model:	Intellistation Z Pro
Processor:	450Mhz Pentium II Xeon
# of CPUs:	2
Memory:	256MB
OS:	Windows NT Workstation 4.0 + SP4 + Post SP4 TCP/IP hotfix.
Compiler:	None

Benchmark Configuration

Max Requested Load:	6800
Max Fileset Size (MB):	1801

Notes/Tuning Information

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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=0x6aef0 (Increase TCB timewait table   to 438,000 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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