SPECweb96 Result

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Hewlett-Packard NetServer LXr 8000

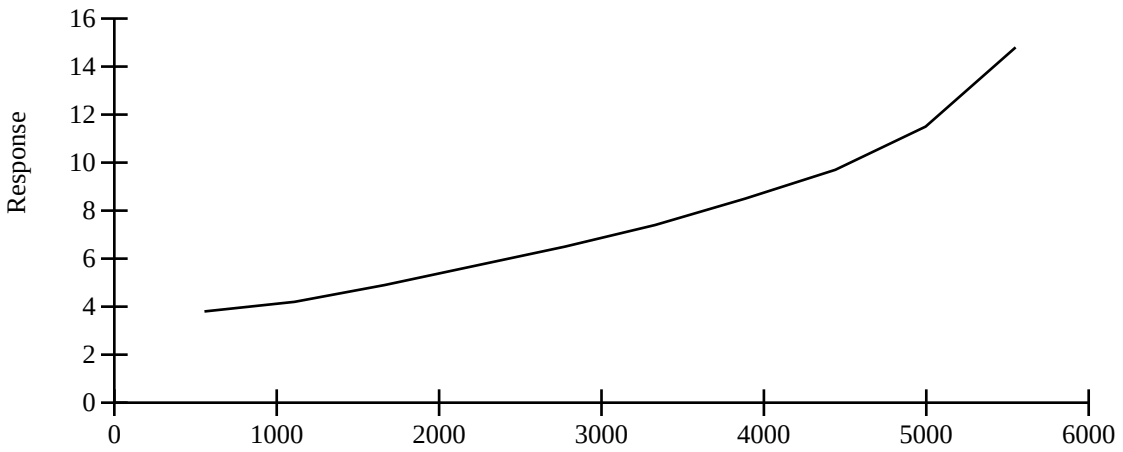
SPECweb96= 5550

Test Date : Oct-98

Tested by : Hewlett-Packard

Hardware Avail:	Nov-98	OS Avail:	Oct-98	HTTP Software Avail:	May-99	SPEC license #:	3

Throughput ops/sec	Response msec
555	3.8
1110	4.2
1665	4.9
2220	5.7
2775	6.5
3330	7.4
3885	8.5
4440	9.7
4996	11.5
5550	14.8



Hardware

Model Name:	NetServer LXr 8000
Processor:	Pentium II Xeon 400MHz
# of Processors:	4
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	1MB(I+D) off chip
Other Cache:	None
Memory:	2.0 GB
Disk Subsystem:	5 4GB 10K RPM Drive
Disk Controllers:	1 Ultra2 SCSI
Other Hardware:	--

Software

Operating System:	Microsoft Windows NT Server 4.0 EE SP 4
File System:	NTFS
Other Software:	None

HTTP Software

Vendor:	Hewlett-Packard/Microsoft
HTTP Software:	IIS 4.0 and NetServer Web Cache v1.0
# of "threads":	1
Server Cache:	HP NetServer Web Cache v1.0
Log Mode:	Binary CLF

Network

# of Controllers:	10
Network Controllers:	DEC DEFPA-MB
# of Nets:	10
Type of Nets:	FDDI over UTP
Network Speed:	100Mb/s
Time Wait (secs):	60 (Non RFC1122)

Load Generators

# of Load Generators:	10
# of Processes Each:	24
Model:	Hewlett-Packard Kayak XU
Processor:	Pentium II 450MHz
# of CPUs:	2
Memory:	128MB
OS:	Microsoft Windows NT Workstation 4.0 SP4
Compiler:	Microsoft Visual C++ 5.0

Benchmark Configuration

Max Requested Load:	5550
Max Fileset Size (MB):	1630

Notes/Tuning Information

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The DEC DEFPA-MB cards are dual attach station (DAS) FDDI over category 5 twisted pair.
No hubs were employed, each of the 10 networks is connected as a ring using both attachments.
Each network included one card in the SUT and one of the clients.
client 1(prime) on 1st segment, client 2 on 2nd segment, client 3 on 3rd segment, and so on .
MTU size = 4352 bytes
Tested with Microsoft Internet Information Server 4.0 and HP NetServer Web Cache v1.0
Performance Boost for Foreground Application=NONE ---Do not raise the priority of the foreground application, default is halfway.
Disable IIS Windows NT Challenge/Response ---Disables IIS user information encryption, default is enabled.
Added Registry Entry Tcpip/Parameters/MaxFreeTcbs=0x53020 ---Increases the TCB timewait table to 340000 entries, default is 2000.
Added Registry Entry Tcpip/Parameters/MaxHashTableSize=0x10000 ---Sets TCB hash table size to 65,536 entries, default is 512.
Added Registry Entry Tcpip/Parameters/TcpTimedWaitDelay=0x3c ---Sets TIME_WAIT parameter to 60 seconds (non-RFC 1122), default is 240.
Set NDIS/Parameters/ProcessorAffinityMask to 0 ---Forces processor that handled interrupt to also handle that DPC, default is any processor.
One 4GB 7200RPM disk for OS, 4 4GB 10KRPM disk for web pages and logs and pagefile.
Network interrupts affinitized as follows:  NICs 1 and 5 to processor 0, NICs 2 and 6 to 1, NICs 3 and 7 to 2 and NICs 4 and 8 to 3,
NIC 9 to 2 and 3 and NIC 10 to 3.
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