SPECweb96 Result

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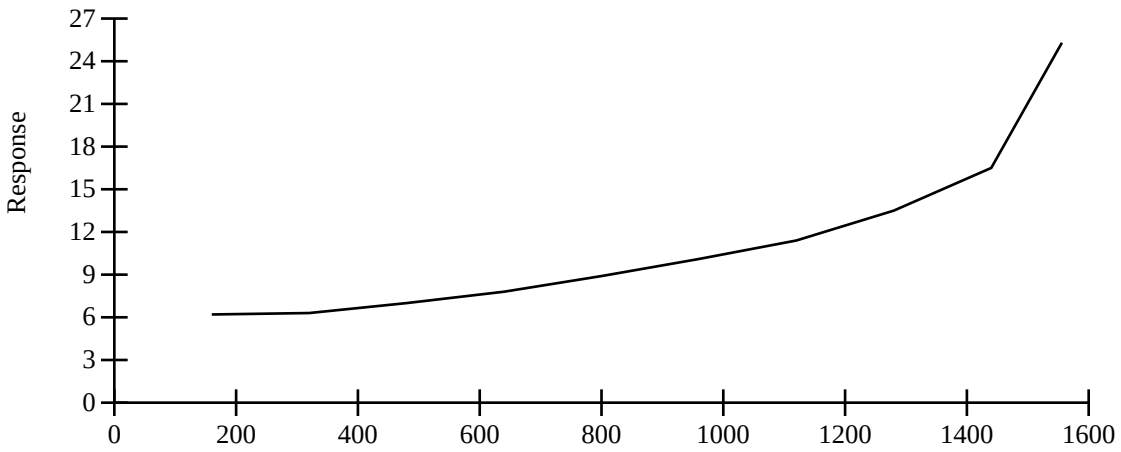
Hewlett-Packard NetServer LXe Pro 6/200

SPECweb96= 1556

Test Date : Jun-98
Tested by : Hewlett-Packard

Hardware Avail:	Aug-97	OS Avail:	Dec-97	HTTP Software Avail:	Jun-98	SPEC license #:	3

Throughput ops/sec	Response msec
160	6.2
320	6.3
480	7.0
640	7.8
800	8.9
960	10.1
1120	11.4
1280	13.5
1440	16.5
1556	25.3



Hardware

Model Name:	NetServer LXe Pro 6/200
Processor:	200Mhz PPro
# of Processors:	2
Primary Cache:	8KBI+8KBD on chip
Secondary Cache:	1MB(I+D) off chip
Other Cache:	None
Memory:	2.0 GB
Disk Subsystem:	5 4GB 10K RPM Drives
Disk Controllers:	2 Ultra-SCSI
Other Hardware:	None

Software

Operating System:	NT 4.0 SP3
File System:	NTFS
Other Software:	None

HTTP Software

Vendor:	Microsoft
HTTP Software:	Internet Information Server 4.0
# of "threads":	1
Server Cache:	See Notes
Log Mode:	Combined

Network

# of Controllers:	4
Network Controllers:	DEC DEFPA-MB
# of Nets:	4
Type of Nets:	FDDI over Cat5 UTP
Network Speed:	100Mb/s
Time Wait (secs):	60 (Non RFC1122)

Load Generators

# of Load Generators:	8
# of Processes Each:	8
Model:	Hewlett-Packard Kayak XU
Processor:	300MHz PentiumII
# of CPUs:	2
Memory:	64MB
OS:	NT 4.0 Workstation SP3
Compiler:	Visual C++ 5.0

Benchmark Configuration

Max Requested Load:	1600
Max Fileset Size (MB):	873

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 4 networks is connected as a ring using both attachments.
Each network included one card in the SUT and 1-2 of the clients.
client 1 on 1st segment, clients 2 and 3 on 2nd, 4 and 5 on 3rd, 6 on 4th.
MTU size = 4352 bytes.
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 InetInfo/Parameters/ObjectCacheTTL=0xea60 ---Keeps IIS open descriptors active at least 16.6 hours, default is 30 sec.
Added Registry Entry InetInfo/Parameters/MemoryCacheSize=0x400000 ---Ups the cache open descriptor table to 32MB, default is 4MB.
Added Registry Entry InetInfo/Parameters/ListenBacklog=0x19 ---Specifies maximum active connections to hold in server queue, default is 15.
Added Registry Entry InetInfo/Parameters/MaxPoolThreads=1 ---Specifies maximum network request threads per processor, default is 10.
Added Registry Entry InetInfo/Parameters/PoolThreadLimit=2 ---Specifies maximum pool threads in system, default is 2 * #MB.
Added Registry Entry Tcpip/Parameters/MaxFreeTcbs=0x1d4c0 ---Increases the TCB timewait table to 120000 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, 3 4GB 10KRPM disk for web pages and logs, 1 4GB 10KRPM Drive for Pagefile
Network interrupts affinitized to one processor.
Microsoft IIS 4.0 hotfixes applied.
12/97 TCP/IP and AFD Transport.
hotfix(ftp://ftp.microsoft.com/bussys/winnt/winnt-public/fixes/usa/NT40/hotfixes-postSP3/)
IIS 4.0 logfix 4/98 (ftp://ftp.microsoft.com/bussys/winnt/winnt-public/fixes/usa/NT40/hotfixes-postSP3/)
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