SPECweb96 Result

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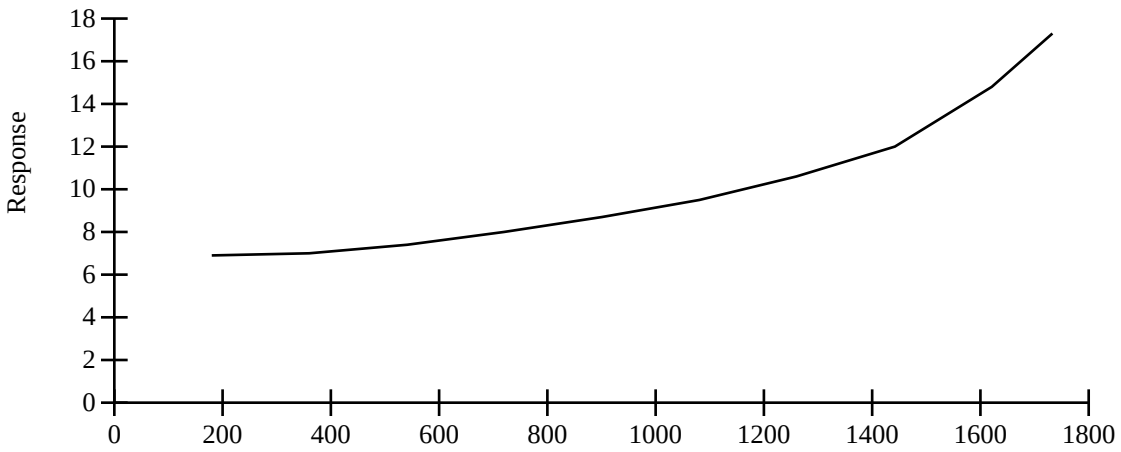
Hewlett-Packard
HP NetServer 6/200 LX Pro

SPECweb96= 1733

Test Date : Aug-97
Tested by : Hewlett Packard

Hardware Avail:	Aug-97	OS Avail:	Nov-97	HTTP Software Avail:	Mar-97	SPEC license #:	3

Throughput ops/sec	Response msec
180	6.9
360	7.0
541	7.4
720	8.0
901	8.7
1081	9.5
1260	10.6
1442	12.0
1621	14.8
1733	17.3



Hardware

Model Name:	HP Netserver 6/200 LX Pro
Processor:	200Mhz PPro
# of Processors:	4
Primary Cache:	8KBI+8KBD on chip
Secondary Cache:	1MB(I+D) off chip
Other Cache:	--
Memory:	2048MB
Disk Subsystem:	1 HP D3582A, 6 HP ST34501WC
Disk Controllers:	1 F/W/U SCSI
Other Hardware:	--

Software

Operating System:	NT Server 4.0 w/SP3
File System:	--
Other Software:	tcpip.sys patch from NT hot fix after SP 3

HTTP Software

Vendor:	Microsoft
HTTP Software:	Internet Information Server 3.0
# of "threads":	Default
Server Cache:	Default
Log Mode:	Combined

Network

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

Load Generators

# of Load Generators:	11
# of Processes Each:	3
Model:	HP Vectra XA
Processor:	200MHz PPro/256KB
# of CPUs:	1
Memory:	96MB
OS:	NT 4.0 Workstation SP3
Compiler:	Visual C++ 5.0

Benchmark Configuration

Max Requested Load:	1800
Max Fileset Size (MB):	927

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 two of the clients.
clients 1(prime) 2 on 1st segment, clients 3, 4 and 5 on 2nd, 6, 7 and 8 on 3rd, 9, 10 and 11 on 4th.
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/LogFileFlushInterval=0x3c ---Makes the log file flush interval 60 seconds, default is 30.
Added Registry Entry InetInfo/Parameters/LogFileBatchSize=0x2000000 ---Forces the log file flush size to be MIN(60sec,32MB), default is 64KB.
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=0x2000000 ---Ups the cache open descriptor table to 32MB, default is 3MB.
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=4 ---Specifies maximum pool threads in system, default is 2 * #MB.
Added Registry Entry Tcpip/Parameters/MaxFreeTcbs=0x186a0 ---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, 1 4GB 10KRPM Drive for IIS logs, 1 4GB 10KRPM Drive for Pagefile
Windows NT 4.0 Service Pack 3, tcpip.sys patch from NT hot fix after Service Pack 3
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For More Information contact

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