SPECweb96 Result

SPEC has determined that this result was not in compliance with the SPECweb96 run and reporting rules. Specificly, the result did not meet the 6 month availability requirement in the SPECweb96 run rules due to a change in availability of Microsoft Windows 2000.

Hewlett-Packard : NetServer LXr 8000/500 Microsoft : Internet Information Server 5.0	NC	SPECweb96

Throughput ops/sec	Response msec
NC	NC
NC	NC
NC	NC
NC	NC
NC	NC
NC	NC
NC	NC
NC	NC
NC	NC

General Availability Dates

Hardware	Apr-99
Operating System	Oct-99
HTTP Software	Oct-99

System Hardware

Vendor	Hewlett-Packard
Model	NetServer LXr 8000/500
Processor	Pentium III Xeon 500MHz
# of Processors	1
Primary Cache	16KBI+16KBD on chip
Secondary Cache	2MB(I+D) off chip
Other Cache	None
Memory	8.0 GB
Disk Controllers	1 Ultra-SCSI and 1 Ultra 2 SCSI
Disk Subsystem	4 D6019A Ultra 1 SCSI 9GB 10K and D6107A Ultra 2 SCSI
Other Hardware	2 Alteon ACEswitch 180

System Software

Operating System	Windows 2000 Advanced Server Edition
Other Software	
File System Type	

HTTP Software

Vendor	Microsoft

HTTP Software	Internet Information Server 5.0
# of "threads"	1
Server Cache	Microsoft Scalable Web Cache 1.2
Log Mode	Binary CLF

Network

# of Controllers	2
Network Controller	Alteon ACEnic PCI Gigabit
# of Nets	4
Type of Nets	Jumbo Frame Gigabit
Network Speed	1000Mb/s
MSL (sec)	30
Time-Wait (sec)	60

Load Generators

# of Generators	16
# of Processes Each	20
Model	Hewlett-Packard Kayak XU
Processor	Pentium II 450MHz
# of Processors	2
Memory	128MB
Network Controller	Alteon ACEnic PCI Gigabit
Operating System	Windows 2000 Professional Edition
Compiler	Microsoft Visual C++ 6.0

Benchmark Configuration

Max Requested Load	5150
Max Fileset Size	1567

Test Sponsor

Tested By	Hewlett-Packard
License Number	3
Test Date	Apr-99

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Operating System Notes

<> Windows 2000 available Oct-99.

Network Notes

<> Each switch connects one card in the SUT to four of the clients.
<> MTU size = 9000 bytes.

Other Notes

<> Software: Internet Information Server 5.0. Microsoft Scalable Web Cache 1.2
<> Performance boost for foreground applications---
<> Raise the priority of the foreground application, default is halfway.
<> IIS settings: listen port 81, logging disabled, expected hits fewer than 10000
<> no ISAPI filters, disable NT challenge/response.
<> IIS Home Directory: Access for Read and Directory Browsing Allowed only
<> Application Settings permissions "none".
<> Added following registry entries to Tcpip/Parameters/
<>   MaxHashTableSize=0x10000---Sets TCB hash table size to 65,536 entries, defau
<>   MaxUserPort=0xfffe---Sets maximum user port to 65534.

```
<>      TcpTimedWaitDelay=60---Sets TIME_WAIT parameter to 60 seconds (non-RFC 1122)
<>      MaxFreeTwTcbs=520000--Sets maximum number of TIME_WAIT TCBs to 520,000.
<>      DisableTaskOffload=0--Enables checksum offloading.
<> Set registry entry NDIS/Parameters/ProcessorAffinityMask to 0---
<> Forces processor that handled interrupt to also handle that DPC, default is any p
<> Added following registry entries to Inetinfo/Parameters:
<>      ObjectCacheTTL=0---Sets object caching time-to-live to 0 seconds.
<>      OpenFileInCache=0---Sets number of active files in cache to 0.
<>      MaxPoolThreads=1---Configures one thread per processor run model.
<>      PoolThreadLimit=2---Allocates four thread total to handle HTTP requests.
<> For each Alteon NIC modified following driver configuration entries:
<>      SendCoalMax=80--Sets number of send buffer descriptors in send ring.
<>      RecvCoalMax=20--Sets number of frames received before notifying host.
<>      PCIReadMax=256--Sets maximum number of bytes per PCI read burst.
<>      SendCoalTicks=1000--Sets number of microsec. before send buffers are returne
<>      RecvCoalTicks=1000--Sets number of microsec. before recv. buffers are given
<>      JumboFrames=1--Enables Jumbo Frame support.
<> SWC configured with 1 thread per NIC affinitized to same CPU as NIC.
<> One 9GB 10KRPM disk for OS, 4 9GB 10KRPM disk for web pages, logs and pagefile.
<> Alternate HTTP/HT.c used. Repeated client-side calls gethostbyname() ommitted
<> as approved by SPEC.
<> No change in measured server performance but reduction in client load.

================================================================================
```