SPECweb96 Result

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Unisys Corporation
Aquanta QS/2

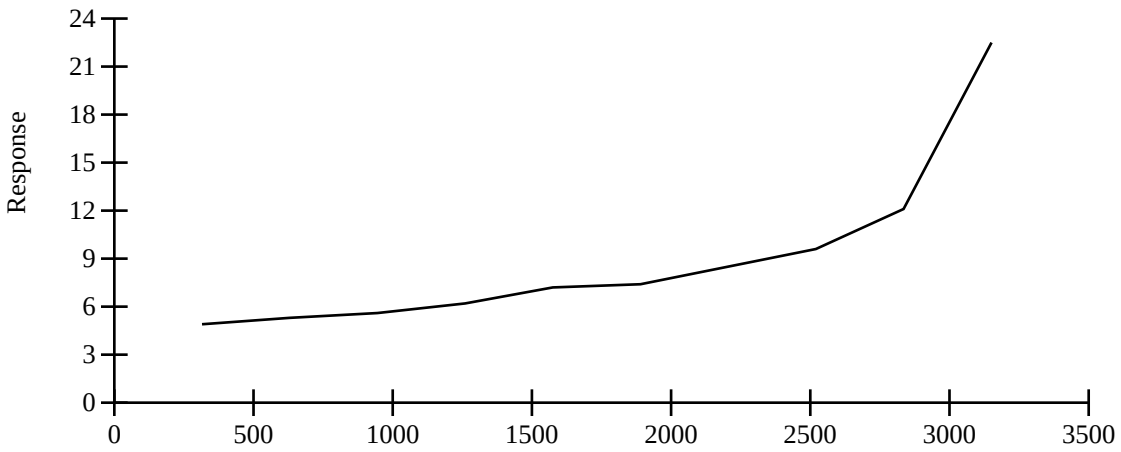
SPECweb96= 3151

Test Date : June-98

Tested by: Unisys Corp./Intel Corp.

Hardware Avail:	Jul-98	OS Avail:	Mar-98	HTTP Software Avail:	Mar-98	SPEC license #:	15

Throughput ops/sec	Response msec
315	4.9
630	5.3
945	5.6
1260	6.2
1575	7.2
1890	7.4
2205	8.5
2520	9.6
2835	12.1
3151	22.5



Hardware

Model Name:	Aquanta QS/2
Processor:	400MHz Pentium(r) II Xeon(tm) Processor
# 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:	4 9GB 10K RPM disks and 1 4GB 10K RPM disk
Disk Controllers:	1 Adaptec 3940W Ultra Wide SCSI
Other Hardware:	Extreme Summit 4 Gigabit/Ethernet Switch

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:	Default
Log Mode:	Combined

Network

# of Controllers:	3
Network Controllers:	Pro1000 1000Mb/s Gigabit Adapter
# of Nets:	3
Type of Nets:	Gigabit/Ethernet
Network Speed:	1000 Mb/s and 100Mb/s
Time Wait (secs):	60 (Non RFC1122)

Load Generators

# of Load Generators:	12
# of Processes Each:	14
Model:	Micron Electronics NetFRAME 3100
Processor:	350Mhz Pentium II Processor
# of CPUs:	2
Memory:	256MB
OS:	NT 4.0 SP3 Server
Compiler:	Visual C++ 4.1

Benchmark Configuration

Max Requested Load:	3150
Max Fileset Size (MB):	1225

Notes/Tuning Information

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All of the 3 networks were configured as 100Mbit/sec, full duplex on the client side.
All of the 3 networks were configured as 1000Mbit/sec, full duplex on the server side.
The 3 networks were isolated by configuring the network switch to host 3 virtual LANs.
All three networks included one card in the server under test and four clients.
Each network segment consists of a Fast Ethernet to Gigabit uplink.
Clients 1 through 4 on 1st segment, clients 5 through 8 on the second, 9 through 12 on the third
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 10 min.
Added Registry Entry InetInfo/Parameters/MemoryCacheSize=0x800000 --Ups the cache open descriptor table to 128MB, 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/LogFileFlushInterval=0x3c --Specifies max active connections to hold in server queue,default is 30.
Added Registry Entry InetInfo/Parameters/MaxPoolThreads=1 --Specifies maximum network request threads per processor, default is 4.
Added Registry Entry InetInfo/Parameters/PoolThreadLimit=4 --Specifies maximum pool threads in system, default is 2 * #MB.
Added Registry Entry Tcpip/Parameters/MaxFreeTcbs=0x30570 --Increases the TCB timewait table to 114000 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 30.
Added Registry Entry Tcpip/Parameters/TcpWindowSize=88e0 --Sets the size of the TCP send and receive windows to 35040, default is 8192
Set NDIS/Parameters/ProcessorAffinityMask to 0 --Forces processor that handled interrupt to also handle that DPC, default is any processor.
One 4GB 10K RPM SCSI disk for OS and page file, 2 9GB 10K RPM disks for web pages, 2 9GB 10K RPM disks for logs.
Network interrupts affinity, set to processor two. three and four.
TCP/IP hotfix
IIS 4.0 logfix
NDIS hotfix
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