SPECweb96 Result

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IBM Austin, Tx
RS/6000 S70

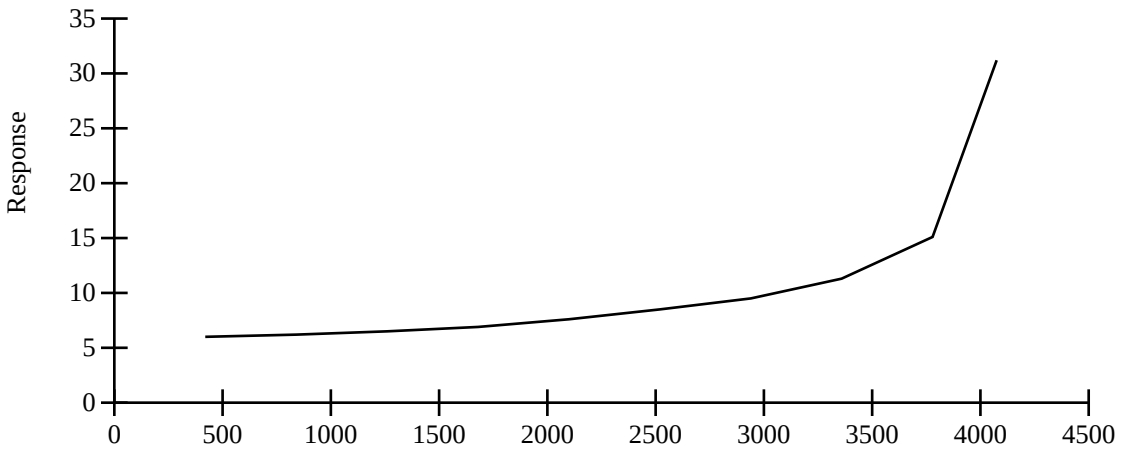
SPECweb96= 4075

Test Date : Dec-97

Tested by : IBM Austin

Hardware Avail:	Oct-97	OS Avail:	Jan-98	HTTP Software Avail:	Oct-97	SPEC license #:	11

Throughput ops/sec	Response msec
420	6.0
840	6.2
1260	6.5
1680	6.9
2100	7.6
2520	8.5
2940	9.5
3359	11.3
3779	15.1
4075	31.2



Hardware

Model Name:	RS/6000 Model S70
Processor:	125MHz PwrPC RS64
# of Processors:	12
Primary Cache:	64KBI+64KBD on chip
Secondary Cache:	4MB(I+D) off chip
Other Cache:	None
Memory:	4096MB
Disk Subsystem:	1 4.5GB 16bSCSI w/ 2 2GB SSA Logical Disks
Disk Controllers:	Wide SCSI, SSA Enhanced RAID Adapter
Other Hardware:	IBM 8260 ATM switch

Software

Operating System:	AIX 4.3 + APAR IX72259,IX73249 (see notes)
File System:	JFS
Other Software:	None

HTTP Software

Vendor:	Zeus Technology Ltd
HTTP Software:	Zeus 1.3.0
# of "threads":	8
Server Cache:	-b 1048576 -t 15000 -q -n -m 1
Log Mode:	Common Log Format

Network

# of Controllers:	8
Network Controllers:	IBM PCI 155Mbps ATM adapter
# of Nets:	8
Type of Nets:	ATM
Network Speed:	155 Mb/s
Time Wait (secs):	60 (Non RFC1122)

Load Generators

# of Load Generators:	8
# of Processes Each:	16
Model:	8 RS/6000 7043-240
Processor:	233MHz PwrPC 604e
# of CPUs:	2
Memory:	256MB
OS:	AIX 4.2.1
Compiler:	IBM Cset++ Version 3.1.3

Benchmark Configuration

Max Requested Load:	4200
Max Fileset Size (MB):	1415

Notes/Tuning Information

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ATM MTU=9180
no(network option) tuning:
.  no -o the_wall=131072 (max memory allocated to mbuf pools)
.  no -o sb_max=262144 (max buffer size allowed for a socket)
.  no -o somaxconn=8192 (max listen backlog)
.  no -o tcp_sendspace=65536 (default socket send buffer size)
.  no -o tcp_recvspace=65536 (default socket receive buffer size)
.  no -o tcp_timewait=5 (ensure that TIME_WAIT is at least 60 sec.)
chdev tuning:
.  chdev -l sys0 -a SW_dist_intr=true (enable SW distribution of interrupts)
APAR IX72259 - A 15 seconds timer is used to timeout Time-Wait connections.
User can configure Time-Wait value by no -o tcp_timewait=x.
Set tcp_timewait=5 (5*15 > 60) guarantees at least 60 seconds Time-Wait value
APAR IX73249 - ATM DD reduce idle period in DMA transfer
APAR IX73249 available Jan-98
```

For More Information contact

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