SPECweb96 Result

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IBM RS/6000 7025-H50

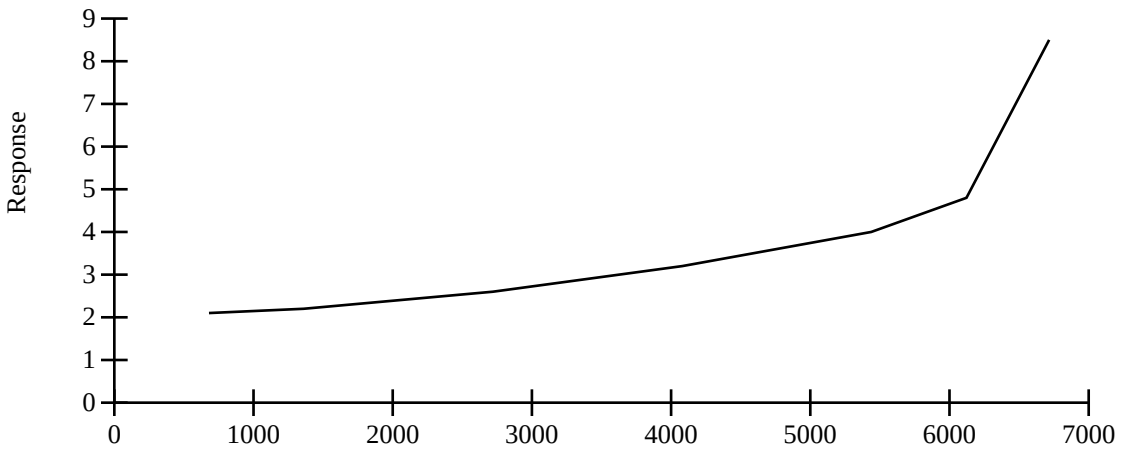
SPECweb96= 6716

Test Date : Mar-99

Tested by : IBM Austin

Hardware Avail:	Feb-98	OS Avail:	Aug-99	HTTP Software Avail:	Aug-99	SPEC license #:	11

Throughput ops/sec	Response msec
680	2.1
1360	2.2
2040	2.4
2720	2.6
3400	2.9
4080	3.2
4759	3.6
5438	4.0
6122	4.8
6716	8.5



Hardware

Model Name:	RS/6000 7025 - H50
Processor:	332 MHz PowerPC 604e
# of Processors:	4
Primary Cache:	32KBI+32KBD cache
Secondary Cache:	256KB L2 cache per processor
Other Cache:	None
Memory:	3072 MB
Disk Subsystem:	3 16 Bit SCSI Disk Drivers (9100 MB)
Disk Controllers:	Wide SCSI I/O Controller
Other Hardware:	

Software

Operating System:	AIX 4.3.2 + APAR IX86737
File System:	JFS
Other Software:	None

HTTP Software

Vendor:	IBM
HTTP Software:	IBM HTTP Server 1.3.4
# of "threads":	6
Server Cache:	FRCA (Integrated)
Log Mode:	Binary Common Log Format

Network

# of Controllers:	6
Network Controllers:	Ethernet-SX Adapters
# of Nets:	6
Type of Nets:	ATM & Jumbo Frame Gigabit
Network Speed:	Gigabit
Time Wait (secs):	60 (Non RFC1122)

Load Generators

# of Load Generators:	7
# of Processes Each:	12
Model:	7 RS/6000 7043-260
Processor:	200 MHz POWER3
# of CPUs:	2
Memory:	1GB
OS:	AIX 4.3.2
Compiler:	IBM Cset++ Version 3.1.3

Benchmark Configuration

Max Requested Load:	6800
Max Fileset Size (MB):	1801

Notes/Tuning Information

```
ATM MTU=9180 & Jumbo Frame Gigabit MTU=9000
1 client per ATM network, 1 client on one Jumbo Frame Gigabit network, & 2 clients on the other Jumbo Frame Gigabit network
server no (network option) tuning:
no -o sb_max=262144 (max buffer size allowed for a socket, default=65536)
no -o somaxconn=8192 (max listen backlog, default=1024)
no -o nbc_max_cache=100000 (max file size for network buffer cache, default=1048576)
no -o nbc_seg_limit=10000 (number of entry allowed in private segment, default=0)
no -o tcp_sendspace=28000 (default socket send buffer size, default=16384)
no -o tcp_recvspace=28000 (default socket receive buffer size, default=16384)
no -o tcp_timewait=5 (ensure that TIME_WAIT is at least 60 seconds, default=1)
bind FRCA logging thread to CPU 0
FRCA logging - BINARY
client no (network option) tuning:
no -o tcp_sendspace=28000 (default socket send buffer size, default=16384)
no -o tcp_recvspace=28000 (default socket receive buffer size, default=16384)
no -o delayack=3 (delay ack for connection setup and shutdown, default=0)
no -o delayackports={80} (delay ack ports, default={})
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.
APAR IX86737 - AIX FRCA support
```

For More Information contact

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