SPECweb96 Result

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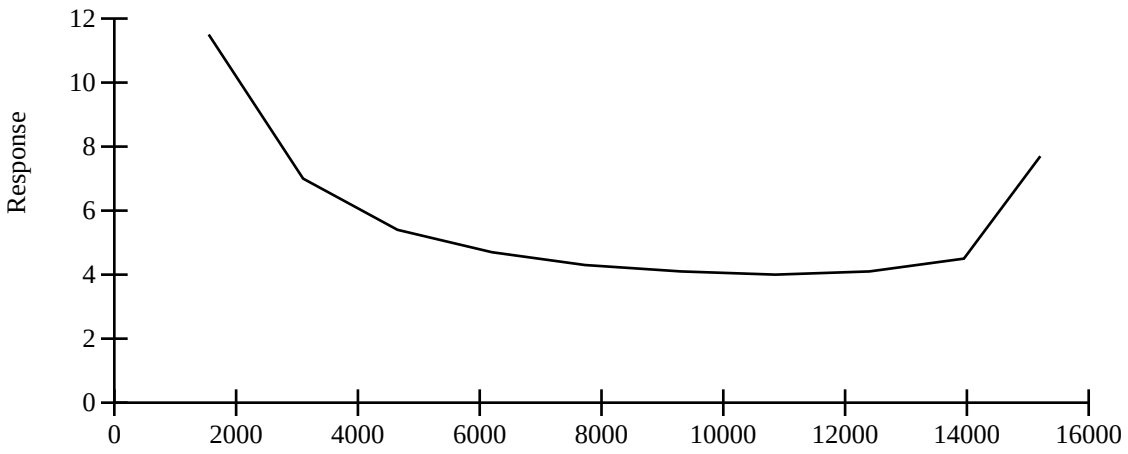
Hewlett-Packard
HP 9000 Model L2000

SPECweb96= 15206

Test Date : Sep-99
Tested by : Hewlett-Packard

Hardware Avail:	Dec-99	OS Avail:	Nov-99	HTTP Software Avail:	Aug-98	SPEC license #:	3

Throughput ops/sec	Response msec
1550	11.5
3100	7.0
4650	5.4
6201	4.7
7729	4.3
9306	4.1
10855	4.0
12400	4.1
13951	4.5
15206	7.7



Hardware

Model Name:	HP 9000 Model L2000
Processor:	440 MHz PA-8500
# of Processors:	4
Primary Cache:	512KBI+1MBD on chip
Secondary Cache:	none
Other Cache:	none
Memory:	8 GB
Disk Subsystem:	2 18GB ST118202LC, 1 9GB ST39102LC
Disk Controllers:	Ultra2 SCSI (core)
Other Hardware:	none

Software

Operating System:	HP-UX 11.00 November 1999 Extensions
File System:	VxFS for OS, HFS for logs and content
Other Software:	A4926A Rev B.11.00.07 Gigabit

HTTP Software

Vendor:	Zeus Technology Ltd.
HTTP Software:	Zeus Server 1.3.3
# of "threads":	4
Server Cache:	See Notes
Log Mode:	Common Log Format

Network

# of Controllers:	4
Network Controllers:	HP A4926A PCI Gigabit Ethernet
# of Nets:	4
Type of Nets:	Gigabit Jumbo Frame
Network Speed:	1000 Mbit/s
Time Wait (secs):	60 (Non RFC1122)

Load Generators

# of Load Generators:	16
# of Processes Each:	8
Model:	HP 9000 Model J5000
Processor:	440 MHz PA-8500
# of CPUs:	2
Memory:	2GB
OS:	HP-UX 11.00 Nov. 1999 Extensions
Compiler:	HP ANSI C

Benchmark Configuration

Max Requested Load:	15500
Max Fileset Size (MB):	2719

Notes/Tuning Information

```
4 Alteon ACEswitch180s; MTU 9000 Bytes
Zeus options: -t 86400 : Set cache timeout in seconds
              -l   200 : Set listen queue length
              -f 28000 : Set maximum number of file descriptors
              -q       : Set quick mode
chatr +pi L on zeus executable to set large instruction page size
ndd tunes in /etc/rc.config.d/nddconf: tcp_conn_request_max=1024 tcp_conn_strategy=1
                                       tcp_xmit_hiwater_def=2000000
processor and interrupt affinity; each Zeus thread bound to unique IP address
Log filesystems mounted with 'behind' option
kernel settings in /stand/system: ninode 30000 nfile 90000
                                  maxfiles 30000 maxfiles_lim 30000
gbeutil options on each NIC: send_coal_ticks 1000 send_max_bufs 32
                             recv_coal_ticks 10000 recv_max_bufs 12
All discs internal: 9GB disc used for OS/swap
                    one 18GB content; one 18GB logs
```

For More Information contact

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