SPECweb99 Result

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Hewlett-Packard Co.: HP Netserver LP 2000r
Zeus Technology Ltd: Zeus 3.3.8

SPECweb99 = 1450

Test Date: Mar-2001
Tester: Hewlett-Packard Company

Hardware Avail:	Mar-2001	OS Avail:	Dec-2000	HTTP Software Avail:	Mar-2001	Sup. Software Avail:	Feb-2001	SPEC license #:	3

Hardware

Vendor:	Hewlett-Packard Co.
Model:	HP Netserver LP 2000r
Processor:	Intel Pentium III at 1Ghz
# Processors:	2 cores, 2 chips, 1 core/chip
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	256KB on chip
Other Cache:	none
Memory:	4 GB
Disk Subsystem:	6 18GB 15K Ultra3 SCSI
Disk Controllers:	Integrated Ultra3 SCSI
Other Hardware:	1 Alteon ACEswitch 180

Software

Operating System:	Red Hat 6.2 Linux
File System:	ext2
Other Software:	None

HTTP Software

Vendor:	Zeus Technology Ltd
HTTP Software:	Zeus 3.3.8
API:	ISAPI
Server Cache:	None
Log Mode:	Binary Log Format

Test Sponsor

Test Date:	Mar-2001
Tested By:	Hewlett-Packard Company
SPEC License:	3

Network

# of Controllers:	1
Network Controllers:	Alteon AceNIC 1000SX
# of Nets:	1
Type of Nets:	Gigabit Ethernet
Network Speed:	1 Gb/s
MSL (sec):	30 (Non RFC1122)
Time-Wait (sec):	60 (Non RFC1122)
MTU:	1500

Clients

# of Clients:	5
Model:	HP Kayak XU
Processor:	Intel Pentium II at 550MHz
# of Processors:	2
Memory:	256MB
Network Controller:	Alteon AceNIC 1000SX
Operating System:	Microsoft Windows 2000 Pro
Compiler:	Microsoft C++ Version 6

Notes/Tuning Information

Operating System Notes

Tuning parameters:
/proc/sys/fs/file-max = 128000
/proc/sys/net/core/rmem_max= 1048576
/proc/sys/net/core/wmem_max= 1048576
/proc/sys/net/core/rmem_default= 1048576
/proc/sys/net/ipv4/ip_local_port_range= 16384 65536
/proc/sys/net/core/wmem_default= 10485760
/proc/sys/net/ipv4/ip_forward= 0
/proc/sys/net/ipv4/tcp_timestamps= 0
/proc/sys/net/ipv4/tcp_sack= 0
/proc/sys/net/ipv4/tcp_window_scaling= 0
/proc/sys/net/ipv4/tcp_max_tw_buckets= 2000000
/proc/sys/vm/bdflush= 100 5000 640 2560 150 30000 5000 1884 2

HTTP API Notes

Zeus 3.3.8 Tuning
- tuning!cache_max_bytes 0
- tuning!cache_sendfile yes
- tuning!cache_files 192461
- tuning!cache_small_file 13000
- tuning!cache_large_file 1048576
- tuning!cache_stat_expire 86400
- tuning!cache_flush_interval 86400
- tuning!cache_cooling_time 0
- tuning!sendfile yes
- tuning!maxfds 16384

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Notes/Tuning Information (Continued)

HTTP API Notes (Continued)

- tuning!sendfile_minsize 5001
- tuning!listen_queue_size 8192
- tuning!so_wbuff_size 1048576
- tuning!modules!cgi!cleansize 0
- tuning!cbuff_size 65536
- tuning!softservers no
- tuning!use_poll yes
- tuning!num_children 4
- tuning!listen_queue_size 256

Hardware Notes

One 18GB 15KRPM disk for OS and paging, 1 18GB 15KRPM for log and 4 18GB 15KRPM OS striped for web pages.

Other Notes

none