SPECweb99_SSL Result

Hewlett-Packard Company: hp server rx5670
Zeus Technology Ltd: Zeus 4.1r4

SPECweb99_SSL =1498

Test Date: Aug-2002
Tester: Hewlett-Packard Company

Hardware Avail:	Aug-2002	OS Avail:	Oct-2002	HTTPS Software Avail:	Aug-2002	Sup. Software Avail:	Aug-2002	SPEC license #:	3

Hardware

Vendor:	Hewlett-Packard Company
Model:	hp server rx5670
Processor:	1 GHz Intel Itanium 2
# Processors:	4 cores, 4 chips, 1 core/chip
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	256KB unified on chip
Other Cache:	3072KB unified on chip
Memory:	12 GB
Disk Subsystem:	4 18GB 15K Ultra3 SCSI
Disk Controllers:	Integrated Ultra3 SCSI
Other Hardware:	None

Software

Operating System:	Red Hat Linux Advanced Server 2.1
File System:	ext2
Other Software:	None

HTTPS Software

Vendor:	Zeus Technology Ltd
HTTPS Software:	Zeus 4.1r4
API:	ISAPI
Server Cache:	None
Log Mode:	Binary Log Format

Test Sponsor

Test Date:	Aug-2002
Tested By:	Hewlett-Packard Company
SPEC License:	3

Network

# of Controllers:	2
Network Controllers:	2 Integrated Broadcom NetXtreme GB Nic
# of Nets:	2
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:	14
Model:	HP Kayak XU
Processor:	Intel Pentium II at 550MHz
# of Processors:	2
Memory:	256MB
Network Controller:	Alteon ACENIC 1000SX
Operating System:	Red Hat Linux 7.2
Compiler:	gcc 2.96

Notes/Tuning Information

Operating System Notes

Tuning parameters:
/proc/sys/fs/file-max = 200000,maximum number of open files, default 1024
/proc/sys/net/core/rmem_max= 1048576,maximum receive socket buffer size, default 65535
/proc/sys/net/core/wmem_max= 1048576,maximum send socket buffer size, default 65535
/proc/sys/net/core/rmem_default= 1048576,default receive socket buffer size, default 65535
/proc/sys/net/ipv4/ip_local_port_range= 16384 65536,local port range for TCP and UDP,default 1024 4999
/proc/sys/net/core/wmem_default= 10485760,default send socket buffer size, default 65535
txqueuelen=20000, transmit queue length, default 100
Red Hat Linux Version: 2.4.17-4hpmckinleysmp

HTTPS Software Notes

Zeus Global Parameters:
tuning!cache_files 356750
tuning!cache_max_bytes 0
tuning!cache_small_file 0
tuning!cache_large_file 1000000
tuning!cache_stat_expire 86400
tuning!cache_flush_interval 86400
tuning!listen_queue_size 8192
tuning!multiple_accept yes
tuning!so_rbuff_size 0
tuning!so_wbuff_size 1048576
tuning!cbuff_size 65536
tuning!keepalive yes
tuning!keepalive_timeout 1200

Notes/Tuning Information (Continued)

HTTPS Software Notes (Continued)

tuning!keepalive_max -1
tuning!timeout 600
tuning!unique_bind yes
tuning!bind_any no
tuning!sendfile no
tuning!modules!cgi!cbuff_size 1048576
tuning!modules!cgi!cleansize 0
tuning!ssl_keepalive yes
tuning!ssl_sessioncache_size 256
tuning!ssl_diskcache no
tuning!softservers no
tuning!use_poll no
tuning!modules!stats!enabled no
tuning!modules!nsapi!enabled no
tuning!modules!isapi!enabled yes
tuning!cache_cooling_time 0
tuning!maxaccept 1024
tuning!num_children 4

HTTP API Notes

Zeus ISAPI interface used
Zeus PEPP Toolkit(0.6) used for SPECweb99_SSL dynamic content
Intel(R) C++ Itanium(TM) Compiler for Itanium(TM)-based applications, Version 6.2
./Configure --sendfile=no --checkconfig=yes --locking=semop --ssl=yes --64bit=yes

Hardware Notes

One 18GB 15K RPM disk for OS,paging Log, 3 18GB 15K for file set.

Other Notes

Tuning Disclosure: HP-20020724.txt
Dynamic API: HP-20020724-API.tgz