SPECweb99_SSL Result

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Hewlett-Packard Company: HP ProLiant BL10e G2
Zeus: Zeus 4.2r2

SPECweb99_SSL = 288

Test Date: Sep-2003
Tester: Hewlett-Packard Company

Hardware Avail:	OS Avail:	HTTPS Software Avail:	Sup. Software Avail:	SPEC license #:
Aug-2003	Jul-2003	Jul-2003	Jul-2003	3

Hardware

Vendor:	Hewlett-Packard Company
Model:	HP ProLiant BL10e G2
Processor:	1.0 GHz Intel Pentium M
# Processors:	1 core, 1 chip, 1 core/chip
Primary Cache:	32KBI + 32KBD
Secondary Cache:	1024KB(I+D) on chip
Other Cache:	none
Memory:	2GB (2x1GB PC2100)
Disk Subsystem:	1x40GB Ultra ATA/100 (5400 rpm)
Disk Controllers:	Integrated IDE Controller
Other Hardware:	Anritsu Multiflow 5128 Switch

Software

Operating System:	Red Hat Linux 8.0
File System:	ext2
Other Software:	None

HTTPS Software

Vendor:	Zeus
HTTPS Software:	Zeus 4.2r2
API:	ISAPI
Server Cache:	None
Log Mode:	Zeus Binary

Test Sponsor

Test Date:	Sep-2003
Tested By:	Hewlett-Packard Company
SPEC License:	3

Network

# of Controllers:	2
Network Controllers:	Integrated NC3163
# of Nets:	2
Type of Nets:	Fast Ethernet
Network Speed:	100 Mb/s
MSL (sec):	30 (Non RFC1122)
Time-Wait (sec):	60 (Non RFC1122)
MTU:	1500

Clients

# of Clients:	2
Model:	Compaq ProLiant DL360
Processor:	1.0GHz Intel Pemtium III
# of Processors:	2
Memory:	128MB
Network Controller:	Alteon ACENIC 1000SX
Operating System:	Red Hat 7.3
Compiler:	gcc 2.96

Notes/Tuning Information

SUT Notes

HP ProLiant BL10e G2 system:
- ProLiant BL10e G2 Server Blade Enclosure
- Interconnect Tray Option: RJ45 Patch Panel
ROM Version: I07 06/10/2003
Driver Version: e100 2.1.29b-1

Operating System Notes

Tuning parameters:
ulimit -n 10000, set number of open files to 10000, default 8192
net.core.optmem_max=10000000, maximum amount of option memory buffers, default 10240
net.core.rmem_default=131071, default receive socket buffer size, default 65535
net.core.rmem_max=131071, maximum receive socket buffer size, default 131071
net.core.wmem_default=10000000, default send socket buffer size, default 65535
net.core.wmem_max=10000000, maximum send socket buffer size, default 131071
net.core.hot_list_length=300000, maximm number of skb-heads to be cached, default 128
net.core.netdev_max_backlog=300000, number of unprocessed input packets before kernel starts dropping them, default 300
net.ipv4.tcp_max_tw_buckets=2000000, set TCP time-wait buckets pool size, default 180000
net.ipv4.tcp_rmem=10000000 10000000 10000000, maximum TCP read-buffer space allocatable, default 4096 87380 174760
net.ipv4.tcp_wmem=10000000 10000000 10000000, maximum TCP write-buffer space allocatable, default 4096 16384 131072
net.ipv4.tcp_mem=10000000 10000000 10000000, maximum TCP buffer space allocatable, default 195584 196096 196608
net.ipv4.tcp_timestamps=0, turns TCP timestamp support off, default on
File system mounted with nodiratime and noatime, no inode access time updating

HTTPS Software Notes

Zeus configuration:
errlog %zeushome%/web/log/errors
gid nobody

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Notes/Tuning Information (Continued)

HTTPS Software Notes (Continued)

uid nobody
controlport 9080
controlallow localhost
tuning!bind_any yes
tuning!cache_files 8192
tuning!cache_flush_interval 31536000
tuning!cache_large_file 1048576
tuning!cache_max_bytes 0
tuning!cache_small_file 4096
tuning!cache_stat_expire 31536000
tuning!num_children 2
tuning!so_wbuff_size 1048576
tuning!softservers no
tuning!use_poll yes
tuning!cache_cooling_time 0
tuning!cbuff_size 65536
tuning!ssl_sessioncache_size 5011
tuning!ssl_sessioncache_expiry 120
tuning!ssl_keepalive yes
tuning!ssl_diskcache yes
tuning!keepalive yes
tuning!sendfile yes
tuning!sendfile_minsize 1
tuning!sendfile_maxsize 2147483647
tuning!listen_queue_size 8192
tuning!so_rbuff_size 0
tuning!modules!cgi!cleansize 0
tuning!clientfirst_optimise yes
tuning!maxaccept 64

HTTP API Notes

Zeus ISAPI interface
Zeus PEPP Toolkit 0.8 used for dynamic content
./Configure --sendfile=yes --checkconfig=yes

Network Notes

txqueuelen=20000, transmit queue length, default 100

Client Notes

Client code generated with ./configure --enable-posix-threads
net.ipv4.ip_local_range=1024 65535

Other Notes

Tuning Disclosure: See above
ISAPI: HP-20020723-API.tar.gz
ISAPI tuning descriptions: HP-20030414-tunings.txt
Kernel config: HP-20030915-BL10e_G2.config.txt
manager.ssl.rcp used