

SPECweb99_SSL Result

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Hewlett-Packard Company: hp server rx2600
Zeus Technology Ltd: Zeus 4.1r4

SPECweb99_SSL = 770

Test Date: Jun-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 rx2600
Processor: 1 GHz Intel Itanium 2
Processors: 2 cores, 2 chips, 1 core/chip
Primary Cache: 16KBI+16KBD on chip
Secondary Cache: 256KB unified on chip
Other Cache: 3072KB unified on chip
Memory: 6 GB
Disk Subsystem: 7 18GB 15K Ultra3 SCSI
Disk Controllers: Integrated Ultra3 SCSI
Other Hardware: --

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: Jun-2002
Tested By: Hewlett-Packard Company
SPEC License: 3

Network

of Controllers: 1
Network Controllers: 1 Integrated Broadcom NetXtreme Gb NIC
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: 12
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: 2.4.17-4hpmckinleynmp
```

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
```

For more
Information
Contact

SPEC

info@spec.org
http://www.spec.org

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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
security!enabled       yes
tuning!children        2
```

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 6.0, Build 20020614

Hardware Notes

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

Other Notes

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