

SPECweb99 Result

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IBM: RS/6000 7044-270
Zeus Technology Ltd.: Zeus 3.1.8

SPECweb99 = 1359

Test Date: Jan-2000
Tester: IBM

Hardware Avail: Feb-2000 OS Avail: Feb-2000 HTTP Software Avail: Dec-1998 Sup. Software Avail: -- SPEC license #: 11

Hardware

Vendor: IBM
Model: RS/6000 7044-270
Processor: 375 MHz POWER3-II
Processors: 4 cores, 4 chips, 1 core/chip
Primary Cache: 32KBI+64KBD on chip
Secondary Cache: 4MB(I+D) off chip
Other Cache: None
Memory: 8 GB
Disk Subsystem: 2 x 9.1GB 16Bit SCSI Disk
Disk Controllers: Wide/Fast-20 SCSI I/O Controller
Other Hardware: Alteon ACESwitch 180

Software

Operating System: AIX 4.3.3 + IY06844
File System: JFS
Other Software: None

HTTP Software

Vendor: Zeus Technology Ltd.
HTTP Software: Zeus 3.1.8
API: Zeus ISAPI
Server Cache: N/A
Log Mode: Common Log Format

Test Sponsor

Test Date: Jan-2000
Tested By: IBM
SPEC License: 11

Network

of Controllers: 4
Network Controllers: 4 Gigabit Ethernet-SX PCI Adapter
of Nets: 4
Type of Nets: Gigabit Ethernet
Network Speed: 1 Gigabit/sec
MSL (sec): 30 (Non RFC1122)
Time-Wait (sec): 60 (Non RFC1122)
MTU: 1500

Clients

of Clients: 8
Model: RS/6000 7025-F50
Processor: 333 MHz PowerPC 604e
of Processors: 4
Memory: 3072MB
Network Controller: 1 Gigabit Ethernet-SX PCI Adapter
Operating System: AIX 4.3.2
Compiler: IBM Cset++ Version 3.1.3

Notes/Tuning Information

SUT Notes

APAR IY06844: New hardware support for Feb-2000 GA
no (network option) tuning:
send_file_duration=180000(cached send_file expiration time, default=300)
sb_max=262144(max buffer size allowed for a socket, default=65536)
somainconn=8192(max listen backlog, default=1024)
nbc_max_cache=131072(max file size for network buffer cache, default=1048576)
nbc_pseg=20000(max file entries in private segment, default=0)
tcp_timewait=5(ensure that TIME_WAIT is at least 60 seconds, default=1)
Processor affinity - bind 4 Ethernet interrupts to 4 cpu's(1 interrupt to 1 cpu)
vmtune tuning:
maxpgahead=48(the maximum number of pages to be read ahead,default=8)
maxfree=168(the number of frames on the free list at which page stealing is to stop,default=128)
minperm=5%(the point below which the page-stealer will steal file or computational pages,default=20%)
maxperm=95%(the point above which the page stealing algorithm steals only file pages,default=80%)

Client Notes

no (network option) tuning:
delayack=3 (delay ack for connection setup and shutdown, default=0)
delayackports={80} (delay ack ports, default={ })
tcp_timewait=5(ensure that TIME_WAIT is at least 60 seconds, default=1)

Other Notes

Zeus 3.1.8 tuning:
bind_any=no
cache_files=100001
cache_large_file=1048576

For more
Information
Contact

SPEC

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http://www.spec.org

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Notes/Tuning Information (Continued)

Other Notes (Continued)

cache_small_file=1
cache_stat_expire=18000
cache_flush_interval=7200
cache_max_bytes=0
keepalive=yes
listen_queue_size=8192
multiple_accept=yes
sendfile=yes
sendfile_maxsize=204800
sendfile_minsize=1
sendfile_reservefd=13999
so_nagle_off=no
softservers=no
unique_bind=yes
usr_poll=yes