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)
somaxconn=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

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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