SPECweb99 Result

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IBM: RS/6000 7026-H80
Zeus Technology Ltd.: Zeus 3.3.5

SPECweb99 = 2200

Test Date: Apr-2000
Tester: IBM

Hardware Avail:	Jun-2000	OS Avail:	May-2000	HTTP Software Avail:	Apr-2000	Sup. Software Avail:	May-2000	SPEC license #:	11

Hardware

Vendor:	IBM
Model:	RS/6000 7026-H80
Processor:	500MHz RS64 III
# Processors:	6 cores, 6 chips, 1 core/chip
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	4MB(I+D) off chip
Other Cache:	None
Memory:	16 GB
Disk Subsystem:	1x9.1GB 16Bit SCSI Disk 3x18.2 SSA Logical Disk
Disk Controllers:	Wide/Ultra-2 SCSI I/O Controller IBM SSA 160 SerialRAID Adapter
Other Hardware:	2 x Alteon ACESwitch 180

Software

Operating System:	AIX 4.3.3 + APAR IY09807
File System:	JFS
Other Software:	None

HTTP Software

Vendor:	Zeus Technology Ltd.
HTTP Software:	Zeus 3.3.5
API:	Zeus ISAPI
Server Cache:	N/A
Log Mode:	Common Log Format

Test Sponsor

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

Network

# of Controllers:	6
Network Controllers:	6 Gigabit Ethernet-SX PCI Adapter
# of Nets:	6
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:	12
Model:	RS/6000 43P-260
Processor:	200 MHz POWER3
# of Processors:	2
Memory:	1024MB
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 IY09807: New hardware support for May-2000
no(network option) tuning:
no -o send_file duration=180000(cached send_file expiration time, default=300)
nbc_max_cache=131072(max file size for network buffer cache,default=1048576)
somaxconn=8192(max listen backlog, default=1024)
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 6 Ethernet interrupts to 6 cpu's(1 interrupt to 1 cpu)
maxpgahead=32(the maximum number of pages to be read ahead,default=8)
maxfree=152(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 of computational pages,default=20%)
maxperm=95%(the point above which the page stealing algorithm steals only file page,default=80%)

Client Notes

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

Other Notes

Zeus 3.3.5 tuning:
global.cfg:
errlog %zeushome%/web/log/errors
gid system
uid root

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Notes/Tuning Information (Continued)

Other Notes (Continued)

controlport 9080
controlallow 127.0.0.1
tuning!bind_any no
tuning!cache_files 100001
tuning!cache_large_file 1048576
tuning!cache_small_file 4096
tuning!cache_stat_expire 180000
tuning!cache_flush_interval 7200
tuning!cache_max_bytes 0
tuning!num_children 7
tuning!keepalive yes
tuning!listen_queue_size 8192
tuning!multiple_accept yes
tuning!sendfile yes
tuning!sendfile_maxsize 80000
tuning!sendfile_minsize 4096
tuning!sendfile_reservefd 13999
tuning!so_nagle_off no
tuning!so_rbuff_size 16384
tuning!so_wbuff_size 16384
tuning!softservers no
tuning!unique_bind yes
tuning!use_poll yes