SPECweb99 Result

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IBM: IBM eServer iSeries i890-2487(1587)
IBM: HTTP Server (powered by Apache 2.0.39)

SPECweb99 = 12900

Test Date: Aug-2002
Tester: IBM

Hardware Avail:	Aug-2002	OS Avail:	Aug-2002	HTTP Software Avail:	Aug-2002	Sup. Software Avail:	Aug-2002	SPEC license #:	11

Hardware

Vendor:	IBM
Model:	IBM eServer iSeries i890-2487(1587)
Processor:	1.3 GHz POWER-4
# Processors:	16 cores, 16 chips, 1 core/chip
Primary Cache:	64KBI+32KBD (on chip) per CPU
Secondary Cache:	1440KB unified (on_chip), shared per chip
Other Cache:	128MB unified (off-chip) per MCM
Memory:	196.6 GB
Disk Subsystem:	130: 6718-050 17.5GB SCSI DASD
Disk Controllers:	11: 2778-001 PCI Disk Unit Controller
Other Hardware:	Cisco Systems Catalyst 6500 Gb Switch

Software

Operating System:	OS/400 V5R2
File System:	iSeries Integrated File System
Other Software:	5722999 PTF MF29320

HTTP Software

Vendor:	IBM
HTTP Software:	HTTP Server (powered by Apache 2.0.39)
API:	Apache API
Server Cache:	FRCA (Fast Response Cache Accelerator)
Log Mode:	CLF (Common Log Format)

Test Sponsor

Test Date:	Aug-2002
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Network

# of Controllers:	24
Network Controllers:	IBM 2743 1Gb/s Ethernet IOA
# of Nets:	24
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:	24
Model:	RS/6000 7044-270
Processor:	450 Mhz POWER-3 (630+)
# of Processors:	2
Memory:	7816 MB
Network Controller:	Alteon Networks, Inc. AceNIC Gigabit Ethernet (Fibre)
Operating System:	SUSE Linux 2.4.13-ppc64-SMP
Compiler:	gcc version 3.0.2 20011104

Notes/Tuning Information

SUT Notes

MCM: Multi-chip Module; 2 MCM's in SUT (4 chips per MCM)
2 CPUs per chip
Base I/O tower (contained 2 Gigabit Ethernet adapters),
(2) 5078 PCI Expansion Unit (contained 3 Gigabit Ethernet Adapters per 5078),
(2) 5074 PCI Expansion Unit (contained 3 Gigabit Ethernet Adapters per 5074),
(4) 0578 PCI Expansion Unit in (1) 0551 rack (contained 3 Gigabit Ethernet Adapters per three of the 0578s. Only 1 Gigabit Ethernet Adapter in the fourth 0578.)

Operating System Notes

CHGTCPA TCPCLOTIMO(60), Tcp closed timewait timeout changed to 60, default 120
CHGTCPA NFC(*YES *NOMAX 30000), Network File Cache size changed to 30000 MB with no maximum cache timeout, default cache size 10MB and a cache timeout 300 seconds

HTTP Software Notes

2 separate HTTP servers were used and each server listened on 12 of the 24 networks
ListenBackLog 3000, Default: ListenBacklog 511
HotBackup off, Default: HotBackup on
TimeOut 120, Default: TimeOut 300
KeepAliveTimeout 120 , Default: KeepAliveTimeout 300
ThreadsPerChild 300, Default: ThreadsPerChild 40
LiveLocalCache off , Default: LiveLocalCache on
ServerRoot /QIBM/UserData/HTTPA , Default: none
ServerName Fireant.rchland.ibm.com , Default: none
ScriptAlias /specweb99/ /QSYS.LIB/specweb99.LIB/ , Default: none
DocumentRoot / , Default: DocumentRoot /QIBM/UserData/HTTPA/htdocs
LogFormat "%h %t "%r" %s %b" , Default: LogFormat "%h %l %u %t "%r" %s %b"
CustomLog logs/specweb_access_a.log , Default: none
LoadModule sw99_module /QSYS.LIB/SSALPHA8.LIB/MOD_SW99.SRVPGM , Default: none

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Notes/Tuning Information (Continued)

HTTP Software Notes (Continued)

FRCAEnableFileCache on, Default: off
FRCACacheLocalSizeLimit 64000000 , Default: 2 MB
FRCACacheLocalFileSizeLimit 9000000 , Default: 90*1024 bytes
Listen 172.16.40.101:4264 Frca , Default: none
FRCACacheLocalFileStartUp /file_set/dir00000/class* , Default: none
UseShutdown on , Default: off

Other Notes

Tuning Disclosure: IBM-20020819.txt
Dynamic API: IBM-20020819-API.zip