

# SPECweb99\_SSL Result

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IBM: IBM eServer iSeries i890-2487(1587)

SPECweb99\_SSL =3600

IBM: HTTP Server (powered by Apache 2.0.39)

Test Date: Aug-2002  
Tester: IBM

Hardware Avail: Aug-2002 OS Avail: Aug-2002 HTTPS 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

## HTTPS Software

Vendor: IBM  
HTTPS Software: HTTP Server (powered by Apache 2.0.39)  
API: Apache API  
Server Cache: HTTP Server (powered by Apache 2.0.39)  
Log Mode: CLF (Common Log Format)

## Test Sponsor

Test Date: Aug-2002  
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## Network

# of Controllers: 18  
Network Controllers: 2743 Gbps Ethernet IOA  
# of Nets: 18  
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: 18  
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),  
(2) 0578 PCI Expansion Unit in (1) 0551 rack (contained 3 Gigabit Ethernet Adapters per one of the 0578s. Only 1 Gigabit Ethernet Adapter in the second 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

### HTTPS Software Notes

1 HTTP server was used

ListenBackLog 2000, Default: ListenBacklog 511  
HotBackup off, Default: HotBackup on  
TimeOut 30, Default: TimeOut 300  
KeepAliveTimeout 60, Default: KeepAliveTimeout 300  
ThreadsPerChild 300, Default: ThreadsPerChild 40  
LiveLocalCache off, Default: LiveLocalCache on  
ServerRoot /QIBM/UserData/HTTTPA, Default: none  
ServerName Fireant.rchland.ibm.com, Default: none  
ScriptAlias /specweb99/ /QSYS.LIB/specweb99.LIB/, Default: none  
DocumentRoot /, Default: DocumentRoot /QIBM/UserData/HTTTPA/htdocs  
LogFormat "%h %t \"%r\" %s %b", Default: LogFormat "%h %l %u %t \"%r\" %s %b"  
CustomLog logs/specweb\_access\_ssl.log, Default: none

For more  
Information  
Contact

SPEC

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## Notes/Tuning Information (Continued)

### HTTPS Software Notes (Continued)

LoadModule sw99\_module /QSYS.LIB/SSALPHA8.LIB/MODSW99SSL.SRVPGM , Default: none  
LoadModule ibm\_ssl\_module /QSYS.LIB/QHTTPSVR.LIB/QZSRVSSL.SRVPGM , Default: none  
CacheLocalFileSizeLimit 700000 , default 90  
CacheLocalSizeLimit 3600000 , default 2000  
UseShutdown on, default off

### Other Notes

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