SPECweb96 Result

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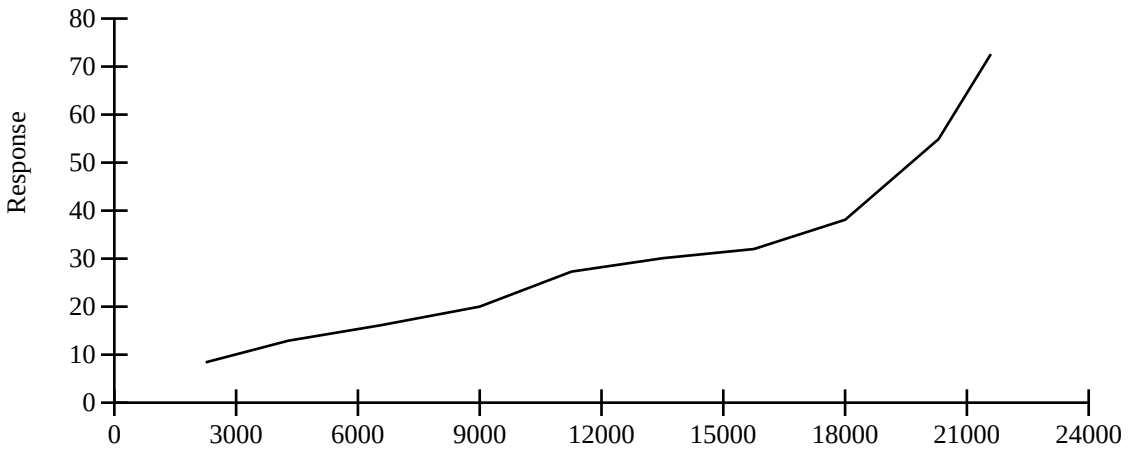
IBM Corporation
S/390 9672-YX6 Enterprise Server

SPECweb96= 21591

Test Date : Dec-98
Tested by : IBM - Raleigh

Hardware Avail:	Nov-98	OS Avail:	Mar-99	HTTP Software Avail:	Mar-99	SPEC license #:	11

Throughput ops/sec	Response msec
2251	8.4
4283	12.9
6544	16.1
8998	20.0
11263	27.3
13519	30.1
15755	32.0
18003	38.1
20303	54.9
21591	72.6



Hardware

Model Name:	S/390 9672-YX6 G5
Processor:	500 MHz S/390 G5 CMOS
# of Processors:	10
Primary Cache:	256KB L1 Cache
Secondary Cache:	4MB L2 Cache
Other Cache:	None
Memory:	2GB Central Storage; 10GB Expanded Storage
Disk Subsystem:	1 9393-T82 RAMAC Virtual Array
Disk Controllers:	4 Integrated Virtual Control Units
Other Hardware:	None

Software

Operating System:	OS/390 V2R7
File System:	HFS (Hierarchical File System)
Other Software:	--

HTTP Software

Vendor:	IBM Corporation
HTTP Software:	IBM HTTP Server V5.1 for OS/390
# of "threads":	40
Server Cache:	Integrated
Log Mode:	Common

Network

# of Controllers:	40
Network Controllers:	ESCON Channels
# of Nets:	40
Type of Nets:	ESCON Channels
Network Speed:	136 Mbits/sec
Time Wait (secs):	60 (Non RFC1122)

Load Generators

# of Load Generators:	40
# of Processes Each:	40
Model:	IBM SP/6000 - 7015-R50
Processor:	200 MHz 604e
# of CPUs:	8
Memory:	1.5GB
OS:	AIX 4.3.1
Compiler:	IBM Cset++ 3.1.3

Benchmark Configuration

Max Requested Load:	22500
Max Fileset Size (MB):	3276

Notes/Tuning Information

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1 Client/ESCON Channel connected through IBM 9032 ESCON Director; MTU Size = 9180 bytes
Multi Path Channel DLC Tuning Parameters:
MAXBFRU=16 MAXREADS=8
TCP/IP Tuning Parameters:
SOMAXCONN(32767) TCPSENDBFRSIZE(65535) TCPRCVBUFRSIZE(65535)
HTTP Server Configuration - Start HTTP server with -lb 32767 option (Listen backlog),
EnableFRCA(on), FRCAMaxFileSize(1M), FRCACacheEntries(25000)
OS/390 Configuration and Tuning Parameters:
BPXPRM00 Configuration - OS/390 Unix Services Parameters:
MAXPROCSYS(4096), MAXPROCUSER(7500), MAXUIDS(20), MAXFILEPROC(65535),
MAXSOCKETS(64498), MAXTHREADTASKS(200), MAXTHREADS(200), MAXMMAPAREA(16777216),
MAXASSIZE(2147483647)
IVTPRM00 Configuration - FRCA Storage Pool Parameters:
FIXED MAX(2047M), ECSA MAX(240M)
9393-T82 RAMAC Virtual Array was configured with 10 3390-Model 3 devices
each with a capacity of 2.8 GB, Cache Size 1GB, Non-volatile store 8MB
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For More Information contact

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