SPEC SFS 1 Summary (Side 1 of 2) — 097.LADDIS

IBM Corporation
RS/6000 7025 Model F50

Server Hardware

CPU, Memory, & Power

Model No.	F50
CPU	166MHz PowerPC 604e
# of CPUs	4
Primary Cache	32KBI+32KBD on chip
Secondary Cache	256KB(I+D) off chip
Other Cache	None
Memory	3GB
UPS	None
Other hardware	FDDI

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	3
Num Disks	97
Num File Systems	48

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	2
Num Networks	2
Type Network	FDDI

Server Software

OS Version	AIX 4.2.1
Other software	None
File system	AIX/JFS

Server Tuning

(Also see Notes/Tuning below)

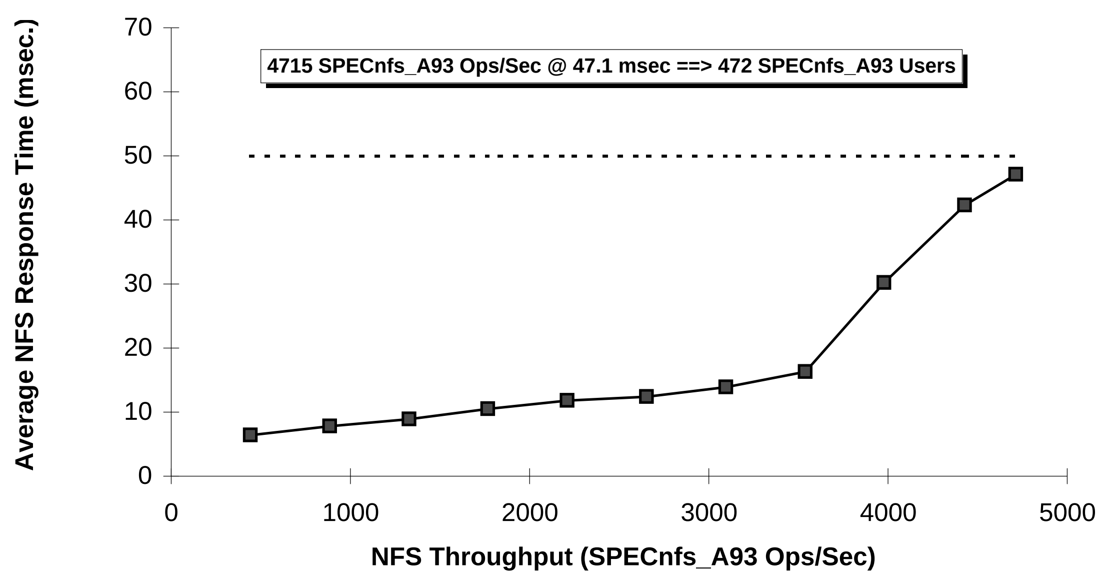
Buffer Cache Size	Dynamic
Num NFS Daemons	210
Fileset Size	26GB

Load Generators (LGs)

Number of Load Generators:	4
Processes Per Load Generator:	48
Biod_Max_Reads:	4
Biod_Max_Writes:	4

Hardware Availability:	Apr-97	**Software Availability:**	Apr-97
License #: 11	**Tested:** Apr-97	**By:** IBM	**Of:** Austin, TX

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
443	6.4
884	7.8
1327	8.9
1767	10.5
2211	11.8
2653	12.4
3097	13.9
3538	16.3
3980	30.2
4427	42.3
4715	47.1



Notes/Summary Of Tuning Parameters: (Continued on Side 2 of 2)

Server Tuning: sb_max=2000000, udp_sendspace=131072, udp_recvspace=131072, thewall=32768
vmtune -P 100, vmtune -r 0 -R 0, nfs_server_base_priority=80, nfs_socketsize=800000,
nfs_server_clread=0, nfs_max_threads=210, tx_queue_size=250

Client Tuning: sb_max=2000000,udp_sendspace=131072,udp_recvspace=131072,thewall=32768,
tx_que_size=250, rcv_que_size=150, stat_que_size=30

SSA adapters configured in non-RAID mode. Two disks per filesystem: one contains the filesystem data, the other contains the filesystem log.

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Detailed Server Description

Network Subsystem

SysKonnect PCI FDDI Adapter (48110040)
1 FDDI (N1): 2 LGs
1 FDDI (N2): 2 LGs

Disk Subsystem & Filesystems

Controller 1: Integrated SCSI-2 Fast/Wide
Disks: 1 x 2.2GB 16-bit SCSI
Contents: OS, page space
Controller 2: PCI SSA RAID Adapter (14104500)
Disks: 48 x 2.2GB SSA (88G6400)
Contents: F1-F24
Controller 3: PCI SSA RAID Adapter (14104500)
Disks: 48 x 2.2GB SSA (88G6400)
Contents: F25-F48

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	RS/6000 39H	1	512MB	AIX 4.2.1 beta	CSet++ 3.1.1

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1	LG1	N1	F1-F48	vers=2,proto=udp
2	LG1	N2	F1-F48	vers=2,proto=udp
3	LG1	N1	F1-F48	vers=2,proto=udp
4	LG1	N2	F1-F48	vers=2,proto=udp

Notes/Summary Of Tuning Parameters: (Continued from Side 1 of 2)