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

IBM Corporation

RISC System/6000 POWERserver J30

Server Hardware

CPU, Memory, & Power

Model No.	POWERserver J30
CPU	75MHz PowerPC 601
# of CPUs	2
Primary Cache	32KB(I+D) on chip
Secondary Cache	1MB(I+D) off chip
Other Cache	None
Memory	1GB
UPS	None
Other hardware	FDDI

Server Software

OS Version	AIX 4.1.3 (beta)
Other software	None
File system	AIX/JFS

Load Generators (LGs)

Number of Load Generators:	4
Processes Per Load Generator:	15
Biod_Max_Reads:	4
Biod_Max_Writes:	4

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	5
Num Disks	22
Num File Systems	15

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	2
Num Networks	2
Type Network	FDDI

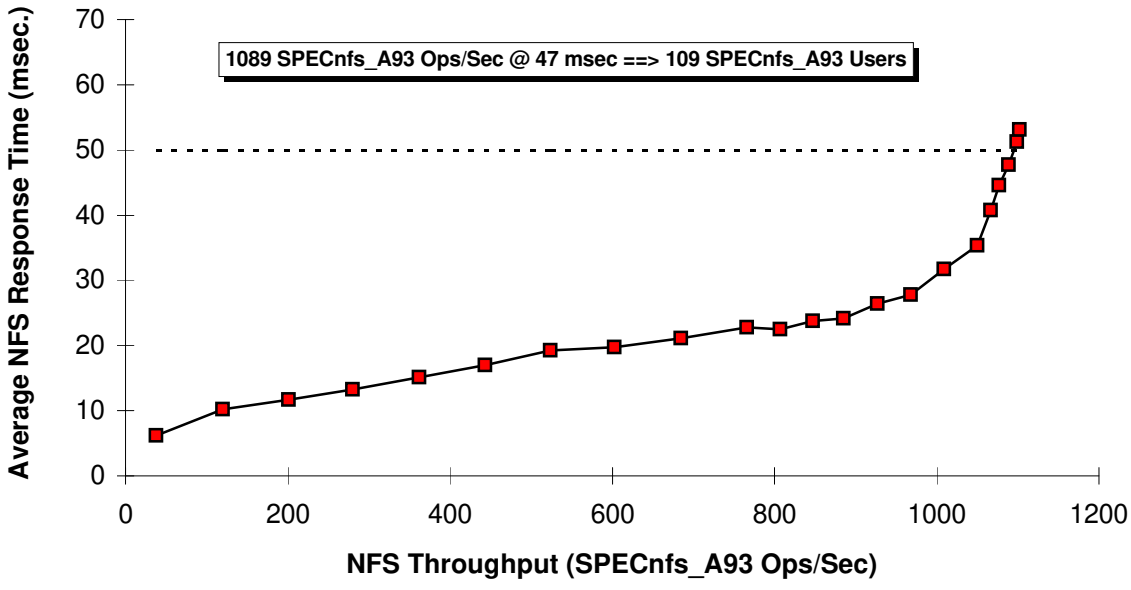
Server Tuning

(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	72
Fileset Size	5GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
38	6.2
120	10.2
201	11.7
280	13.3
362	15.1
443	17.0
524	19.2
603	19.7
685	21.1
766	22.8
807	22.5
847	23.8
885	24.2
927	26.4
968	27.8
1009	31.7
1050	35.3
1067	40.7
1077	44.6
1089	47.7
1099	51.2

Hardware Availability:	Jun-95			**Software Availability:**	Jun-95		
License #:	11	**Tested:**	Jun-95	**By:**	IBM	**Of:**	Austin, TX



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

Server Tuning:

sb_max=2000000,thewall=32768,udp_sendspace=131072,udp_recvspace=131072,vmtune -P 100,vmtune -r 0 -R 0,nfso -o nfs_socketsize=800000,tx_que_size=250,rcv_que_size=150,stat_que_size=30

Client Tuning:

sb_max=2000000,thewall=16384,udp_sendspace=131072,udp_recvspace=131072,tx_que_size=250,rcv_que_size=150,stat_que_size=30

© 1995 by Standard Performance Evaluation Corporation (ph:703-698-9604 ext. 325)

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

IBM Corporation

RISC System/6000 POWERserver J30

Detailed Server Description

Network Subsystem

IBM FDDI
- 1 FDDI (N1): 2 LGs
- 1 FDDI (N2): 2 LGs

Disk Subsystem & Filesystems

Controller 1-3: IBM SCSI-2 Fast/Wide Adapter/A
- Disks: 2 x IBM 1.2 GB (in 2.4 GB)
  - Contents: OS, page space
- Disks: 4 x IBM 1.2 GB (in 2.4 GB)
  - Contents: F1-F4
- Disks: 1 x IBM 2.0 GB
  - Contents: jfs log file
- Disks: 4 x IBM 1.2 GB (in 2.4 GB)
  - Contents: F5-F12
- Disks: 1 x IBM 2.0 GB
  - Contents: jfs log file

Controller 4-5: IBM SCSI-2 Fast/Wide Adapter/A
- Disks: 2 x IBM 2.0 GB
  - Contents: jfs log file
- Disks: 3 x IBM 1.2 GB (in 2.4 GB)
  - Contents: F13-F15

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	RS/6000 380	1	128MB	AIX 4.1.2	CSet++ 3.1.1

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1	LG1	N1	F1-F15	Default
2	LG1	N2	F1-F15	Default
3	LG1	N1	F1-F15	Default
4	LG1	N2	F1-F15	Default

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

© 1995 by Standard Performance Evaluation Corporation (ph:703-698-9604 ext. 325)