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

Silicon Graphics Challenge

Server Hardware

CPU, Memory, & Power

Model No.	DM
File Processor	150MHz MIPS R4400
Number of FPs	4
Metadata Cache	16KBI+16KBD on chip
Other Cache	1MB(I+D) off chip
Host Processor	None
Memory	512MB 2-way interleaved
UPS	None
Other hardware	FDDI

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

# Disk Controllers	4
# Disks	36
# File Systems	36 (FS0-FS35)

Network Subsystem

(Full Configuration On Side 2)

# Net Controllers	2
# Networks	2 (N1-N2)
Type Network	FDDI

Server Software

OS Version	IRIX 5.3
Other software	FDDIXpress, NFS
File system	EFS

Server Tuning

(Also see Notes/Tuning below)

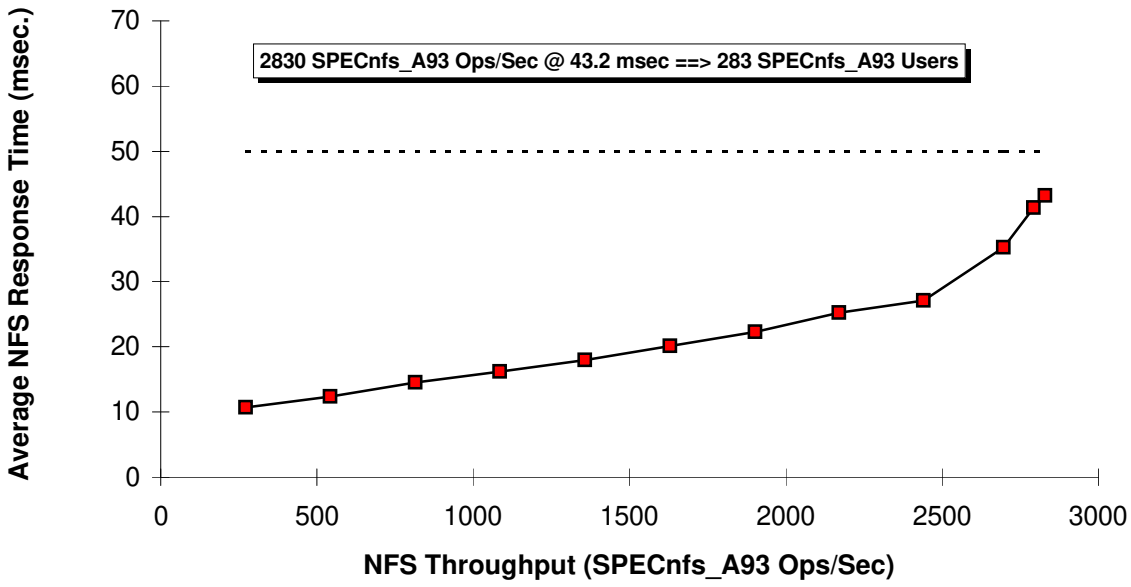
Buffer Cache Size	Dynamic
# NFS Daemons	112
Fileset Size	16GB

Load Generators (LGs)

Number of Load Generators:	6
Processes Per Load Generator:	18
Biod_Max_Reads:	2
Biod_Max_Writes:	2

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
272	10.7
543	12.4
816	14.5
1086	16.2
1357	18.0
1631	20.1
1902	22.3
2170	25.2
2441	27.1
2697	35.2
2794	41.3
2830	43.2

Hardware Availability:	Dec-94			**Software Availability:**	Dec-94		
License #:	4	**Tested:**	Jan-95	**By:**	Silicon Graphi	**Of:**	Mountain View, CA



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

```
syssegsz = 32000
ncsize = 25000
maxphyscolors = 32
vnode_free_ratio = 24
All exported filesystems are 1GB in size and exported in wsync mode.
```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SPEC SFS 1 Summary (Side 2 of 2) 097.LADDIS

Silicon Graphics Challenge

Detailed Server Description

Network Subsystem

FDDI controller 1: 1 LG1, 2 LG2
FDDI controller 2: 3 LG1

Disk Subsystem & Filesystems

Controller 1: SCSI
Disks: 1 SCSI 1GB
Contents: OS, swap space
Controllers 2-4: SCIP-SCSI Fast/Wide Diff
Disks 1-30: 2GB(7200RPM)
Disks 31-32: 2GB(5400RPM)
Disks 33-36: 2GB(7200RPM)
Controller 2: Disks: 1-12, FS0,3,6,9,12,15,18,21,24,27,30,33
Controller 3: Disks: 13-24, FS1,4,7,10,13,16,19,22,25,28,31,34
Controller 4: Disks: 25-36, FS2,5,8,11,14,17,20,23,26,29,32,35

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	Indy	1 100MH	64MB	IRIX 5.2	Ansi C, 3.17
LG2	Indy	1 150MH	64MB	IRIX 5.2	Ansi C, 3.17

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1	LG2	N1	FS0-FS17	lbsize=32768
2	LG1	N1	FS18-FS35	lbsize=32768
3	LG2	N1	FS0-FS17	lbsize=32768
4	LG1	N2	FS18-FS35	lbsize=32768
5	LG1	N2	FS0-FS17	lbsize=32768
6	LG1	N2	FS18-FS35	lbsize=32768

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