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

Silicon Graphics Challenge

Server Hardware

CPU, Memory, & Power

Model No.	XL
CPU	200MHz MIPS R4400
# of CPUs	12
Primary Cache	16KBI+16KBD on chip
Secondary Cache	4MB(I+D) off chip
Other Cache	None
Memory	1024MB 4-way interleaved
UPS	None
Other hardware	FDDI

Server Software

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

Load Generators (LGs)

Number of Load Generators:	12
Processes Per Load Generator:	18
Biod_Max_Reads:	2
Biod_Max_Writes:	2

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

# Disk Controllers	10
# Disks	109
# File Systems	108 (FS0-FS107)

Network Subsystem

(Full Configuration On Side 2)

# Net Controllers	4
# Networks	4 (N1-N4)
Type Network	FDDI

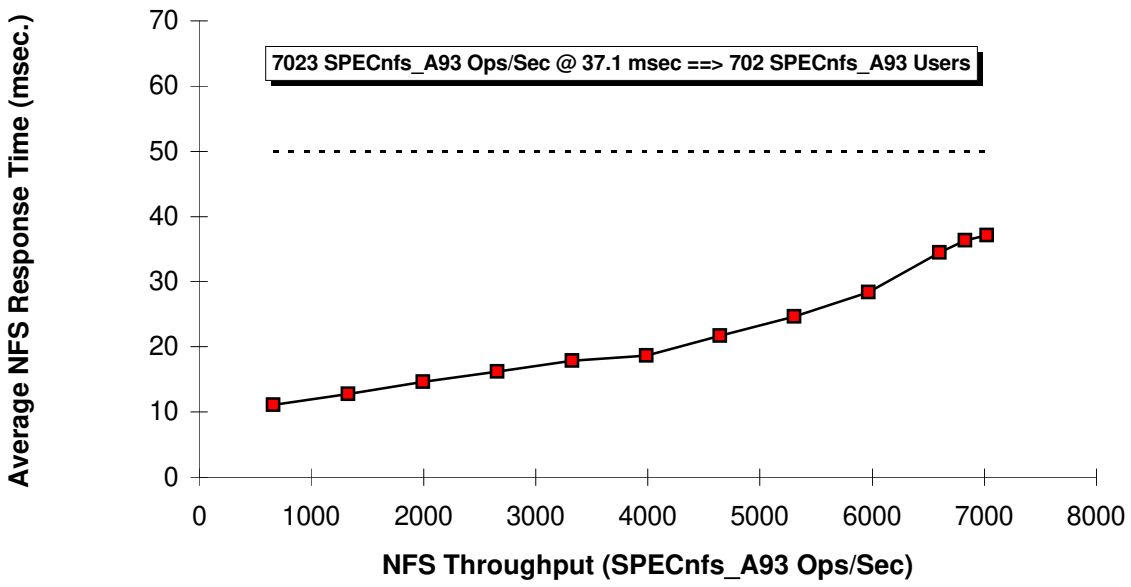
Server Tuning

(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
# NFS Daemons	240
Fileset Size	39GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
663	11.1
1328	12.8
1997	14.6
2659	16.2
3324	17.9
3987	18.7
4642	21.7
5308	24.6
5969	28.4
6603	34.5
6830	36.3
7023	37.1

Hardware Availability:	Dec-94	**Software Availability:**	Dec-94				
License #:	4	**Tested:**	Nov-94	**By:**	SGI	**Of:**	Mountain View, CA



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

```
syssegsz = 35000
ncsize = 60000
maxphyscolors = 32
vnode_free_ratio = 24
svc_maxdupreqs = 6000
All filesystems are 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

VME 1:
FDDI controller 1: 2 LG1, 1 LG2
FDDI controller 2:
Crescendo 1000 Concentrator: 2 LG1, 1 LG2
VME 2:
FDDI controller 3: 2 LG1, 1 LG2
FDDI controller 4:
Crescendo 1000 Concentrator: 2 LG1, 1 LG2

Disk Subsystem & Filesystems

Controller 1: SCSI Fast/Wide Diff
Disks: 1 SCSI 2GB
Contents: OS, swap space
Controllers 2-10: SCIP-SCSI Fast/Wide Diff
Disks 1-48: 2GB(5400RPM)
Disks 49-108: 2GB(7200RPM)
Controller 2: Disks: 1-12, FS3,12,21,30,39,48,57,66,75,84,93,102
Controller 3: Disks: 13-24, FS4,13,22,31,40,49,58,67,76,85,94,103
Controller 4: Disks: 25-36, FS5,14,23,32,41,50,59,68,77,86,95,104
Controller 5: Disks: 37-48, FS6,15,24,33,42,51,60,69,78,87,96,105
Controller 6: Disks: 49-60, FS7,16,25,34,43,52,61,70,79,88,97,106
Controller 7: Disks: 61-72, FS8,17,26,35,44,53,62,71,80,89,98,107
Controller 8: Disks: 73-84, FS0,9,18,27,36,45,54,63,72,81,90,99
Controller 9: Disks: 85-96, FS1,10,19,28,37,46,55,64,73,82,91,100
Controller 10: Disks: 97-108, FS2,11,20,29,38,47,56,65,74,83,92,101

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	Indy	1 100MHz MIPS R4000	64MB	IRIX 5.2	Ansi C, 3.17
LG2	Indy	1 150MHz MIPS R4400	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	N2	FS36-FS53	lbsize=32768
4	LG1	N2	FS54-FS71	lbsize=32768
5	LG1	N3	FS72-FS89	lbsize=32768
6	LG1	N3	FS90-FS107	lbsize=32768
7	LG2	N4	FS0-FS17	lbsize=32768
8	LG1	N4	FS18-FS35	lbsize=32768
9	LG1	N1	FS36-FS53	lbsize=32768
10	LG2	N3	FS54-FS71	lbsize=32768
11	LG1	N2	FS72-FS89	lbsize=32768
12	LG1	N4	FS90-FS107	lbsize=32768

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