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

Sun Microsystems Inc.
Sun Enterprise 6500

Server Hardware

	CPU, Memory, & Power
Model No.	Sun Enterprise 6500/22
CPU	336MHz UltraSPARC II
# of CPUs	22
Primary Cache	16KBI+16KBD on chip
Secondary Cache	4096KB(I+D) off chip
Other Cache	None
Memory	11.5GB
UPS	None
Other hardware	SunSwitch

Disk Subsystem & Filesystems
(Full Configuration on Side 2)

Num Disk Controllers	15
Num Disks	424
Num File Systems	420

Network Subsystem
(Full Configuration On Side 2)

Num Net Controllers	18
Num Networks	18
Type Network	100MBit Sun FastEthernet/Alteon GigaEthernet

Server Software

OS Version	Solaris 2.5.1
Other software	None
File system	UFS

Server Tuning
(Also see Notes/Tuning below)

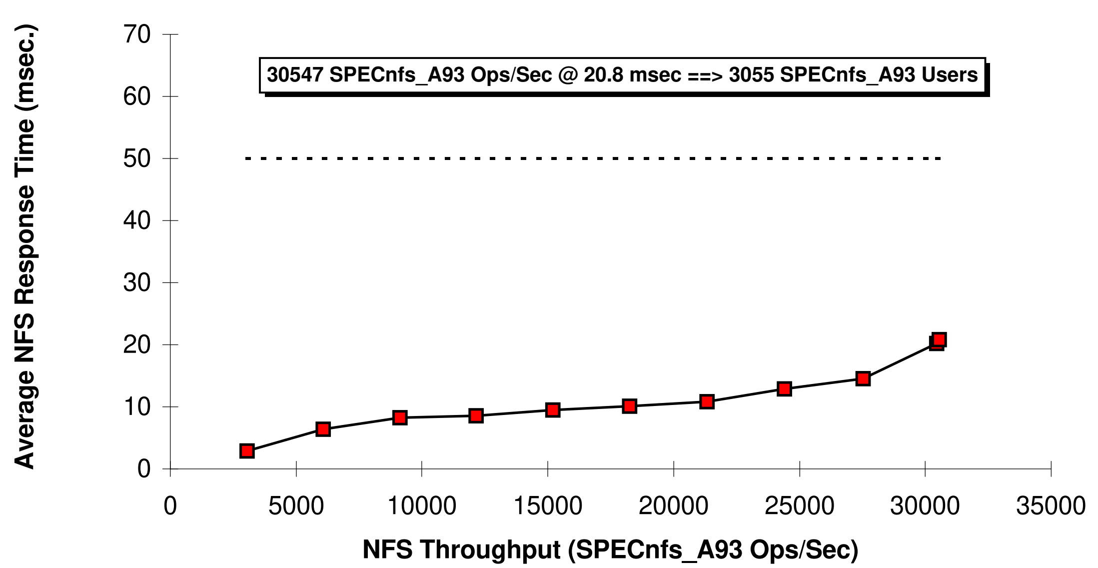
Buffer Cache Size	Dynamic
Num NFS Daemons	899
Fileset Size	159.1GB

Load Generators (LGs)

Number of Load Generators:	42
Processes Per Load Generator:	10
Biod_Max_Reads:	3
Biod_Max_Writes:	5

Hardware Availability:	May-98	**Software Availability:**	May-96
License #: 6	**Tested:** Jun-98	**By:** Sun	**Of:** Mountain View

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
3040	2.9
6083	6.4
9120	8.2
12143	8.6
15190	9.5
18241	10.1
21329	10.8
24409	12.9
27523	14.5
30448	20.2
30547	20.8



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

IGNORE_KERNEL_PREEMPTION=1
ncsize=524288
bufhwm=1048576

SSA fast_write enabled

Used 12 SunSwitches (N1-N12) and 6 CISCO 100baseT hubs (N13-N18)

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Detailed Server Description

Network Subsystem

6 Sun FastEthernet (N1-N6): 3 LGs
2 Sun FastEthernet (N7-N8): 2 LGs
4 Alteon GigaEthernet (N9-N12): 2 LGs
6 Sun FastEthernet (N13-N18): 2 LGs

Disk Subsystem & Filesystems

Controller 1: On-board SCSI-2
Disks: 4 2GB 7200rpm

Controller 2-15: Fiber Channel SBUS (FC25/S) /
Disks: SPARCstorage Array 112 w/ 30 2GB 7200rpm drives
Contents 2: F1-F30 Contents 3: F31-F60
Contents 4: F61-F90 Contents 5: F91-F120
Contents 6: F121-F150 Contents 7: F151-F180
Contents 8: F181-F210 Contents 9: F211-F240
Contents 10: F241-F270 Contents 11: F271-F300
Contents 12: F301-F330 Contents 13: F331-F360
Contents 14: F361-F390 Contents 15: F391-F420

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Detailed Load Generator (LG) Description

Load Gen. Type	Model	# of CPUs	RAM	OS	Compiler
	Ultra1-170	1	128MB	Solaris 2.6	SC3.0

Testbed Configuration

Load Gen. #	Load Gen. Type	Network	Target File Systems	Notes
1,2,3	LG1	N1	F1,..,F379/F2,..,F380/F3,..,F381	default
4,5,6	LG1	N2	F4,..,F382/F5,..,F383/F6,..,F384	default
7,8,9	LG1	N3	F7,..,F385/F8,..,F386/F9,..,F387	default
10,11,12	LG1	N4	F10,..,F388/F11,..,F389/F12,..,F390	default
13,14,15	LG1	N5	F13,..,F391/F14,..,F392/F15,..,F393	default
16/17/18	LG1	N6	F16,..,F394/F17,..,F395/F18,..,F396	default
(2i+5),(2i+6)	LG1	N(i) i=7,..,18	F(2i+5),..,F(2i+383)/F(2i+6),..,F(2i+38	default

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

8 of the SunSwitches used only the 100baseT ports