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

Sun Microsystems Inc.
Enterprise 3000/4

Server Hardware

CPU, Memory, & Power

Model No.	Model 3000/4
CPU	167MHz UltraSPARC
# of CPUs	4
Primary Cache	16KBI+16KBD on chip
Secondary Cache	1024KB(I+D) off chip
Other Cache	None
Memory	1.5GB
UPS	None
Other hardware	None

Server Software

OS Version	Solaris 2.5.1
Other software	None
File system	UFS

Load Generators (LGs)

Number of Load Generators:	6
Processes Per Load Generator:	15
Biod_Max_Reads:	3
Biod_Max_Writes:	5

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	4
Num Disks	91
Num File Systems	90

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	3
Num Networks	3
Type Network	100MBit Sun FastEthernet

Server Tuning

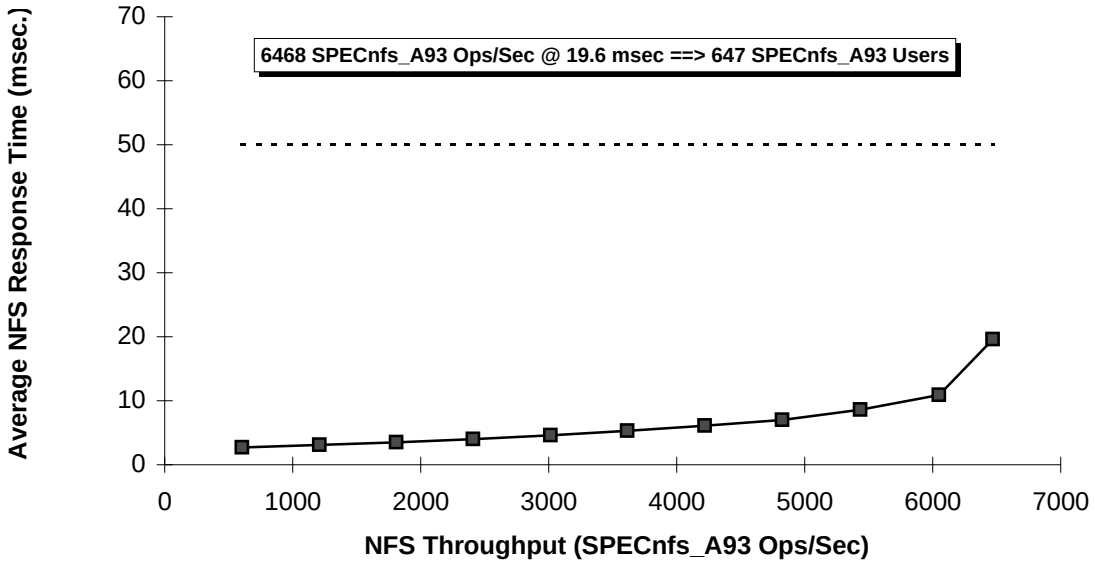
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	255
Fileset Size	33.3GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
605	2.7
1209	3.1
1811	3.5
2411	4.0
3016	4.6
3616	5.3
4219	6.1
4827	7.0
5436	8.6
6052	10.9
6468	19.6

Hardware Availability: Aug-96 **Software Availability:** May-96

License #: 6 **Tested:** Jul-96 **By:** Sun **Of:** Mountain View



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

IGNORE_KERNEL_PREEMPTION=1

ncsize=131072

bufhwm=131072

SSA fast_write enabled

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

Sun Microsystems Inc.
Enterprise 3000/4

Detailed Server Description

Network Subsystem

1 Sun FastEthernet (N1): 2 LGs
2 Sun FastEthernet (N2): 2 LGs
3 Sun FastEthernet (N3): 2 LGs

Disk Subsystem & Filesystems

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

Controller 2-4: Fiber Channel SBus (FC25/S) /
Fiber Channel Optical Module (FC25/OM)
Disks: SPARCstorage Array 102 w/ 30 2GB 7200rpm drives
Contents 2: F1-F30
Contents 3: F31-F60
Contents 4: F61-F90

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	Ultra1-170	1	64MB	Solaris 2.5.1	SC3.0

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1	LG1	N1	F1,F7,...,F85	
2	LG1	N1	F2,F8,...,F86	
3	LG1	N2	F3,F9,...,F87	
4	LG1	N2	F4,F10,...,F88	
5	LG1	N3	F5,F11,...,F89	
6	LG1	N3	F6,F12,...,F90	

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