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

Sun Microsystems Inc.
Enterprise 6000/20

Server Hardware

CPU, Memory, & Power

Model No.	Model 6000/20
CPU	167MHz UltraSPARC
# of CPUs	20
Primary Cache	16KBI+16KBD on chip
Secondary Cache	1024KB(I+D) off chip
Other Cache	None
Memory	6GB
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:	24
Processes Per Load Generator:	15
Biod_Max_Reads:	3
Biod_Max_Writes:	5

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	13
Num Disks	364
Num File Systems	360

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	12
Num Networks	12
Type Network	100MBit Sun FastEthernet

Server Tuning

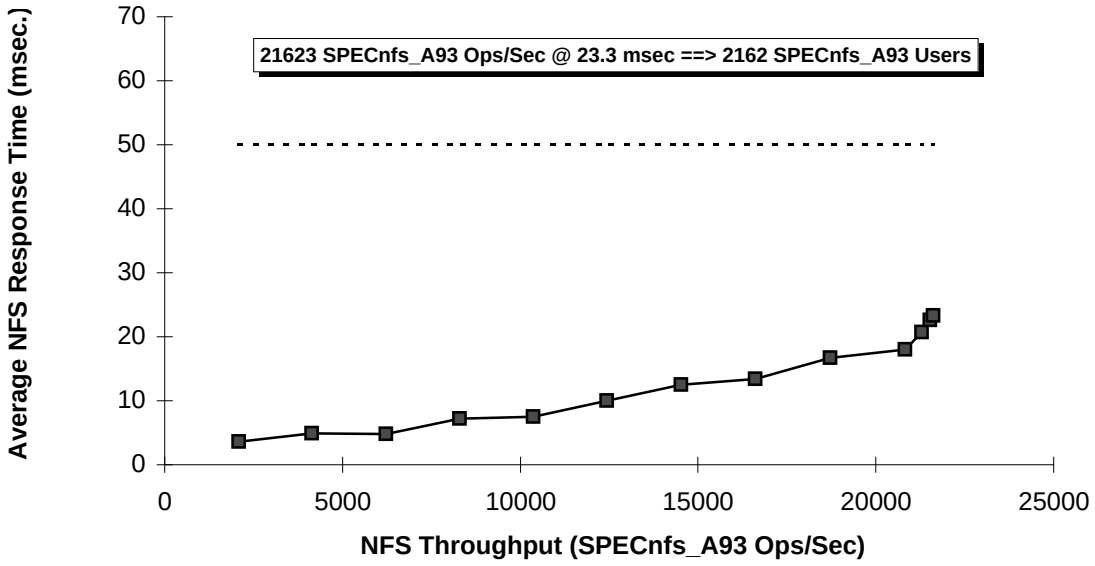
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	767
Fileset Size	111.5GB

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

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

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
2081	3.6
4148	4.9
6236	4.8
8305	7.2
10372	7.5
12443	10.0
14520	12.5
16617	13.4
18719	16.7
20819	18.0
21294	20.7
21527	22.6
21623	23.3



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

IGNORE_KERNEL_PREEMPTION=1

ncsize=524288

bufhwm=524288

SSA fast_write enabled

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

Sun Microsystems Inc.
Enterprise 6000/20

Detailed Server Description

Network Subsystem

1 Sun FastEthernet (N1): 2 LGs
2 Sun FastEthernet (N2): 2 LGs
3 Sun FastEthernet (N3): 2 LGs
4 Sun FastEthernet (N4): 2 LGs
5 Sun FastEthernet (N5): 2 LGs
6 Sun FastEthernet (N6): 2 LGs
7 Sun FastEthernet (N7): 2 LGs
8 Sun FastEthernet (N8): 2 LGs
9 Sun FastEthernet (N9): 2 LGs
10 Sun FastEthernet (N10): 2 LGs
11 Sun FastEthernet (N11): 2 LGs
12 Sun FastEthernet (N12): 2 LGs

Disk Subsystem & Filesystems

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

Controller 2-13: 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 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

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*
1/2	LG1	N1	F1,F25,...,F337/F2,F26,...,F338	
3/4	LG1	N2	F3,F27,...,F339/F4,F28,...,F340	
5/6	LG1	N3	F5,F29,...,F341/F6,F30,...,F342	
7/8	LG1	N4	F7,F31,...,F343/F8,F32,...,F344	
9/10	LG1	N5	F9,F33,...,F345/F10,F34,...,F346	
11/12	LG1	N6	F11,F35,...,F347/F12,F36,...,F348	
13/14	LG1	N7	F13,F37,...,F349/F14,F38,...,F350	
15/16	LG1	N8	F15,F39,...,F351/F16,F40,...,F352	
17/18	LG1	N9	F17,F41,...,F353/F18,F42,...,F354	
19/20	LG1	N9	F19,F43,...,F355/F20,F44,...,F356	
21/22	LG1	N9	F21,F45,...,F357/F22,F46,...,F358	
23/24	LG1	N9	F23,F47,...,F359/F24,F48,...,F360	

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