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

Sun Microsystems Inc.
Enterprise 6000/16

Server Hardware

CPU, Memory, & Power

Model No.	Model 6000/16
CPU	167MHz UltraSPARC
# of CPUs	16
Primary Cache	16KBI+16KBD on chip
Secondary Cache	512KB(I+D) off chip
Other Cache	None
Memory	4GB
UPS	None
Other hardware	None

Server Software

OS Version	Solaris 2.5.1 pre-FCS
Other software	None
File system	UFS

Load Generators (LGs)

Number of Load Generators:	24
Processes Per Load Generator:	11
Biod_Max_Reads:	2
Biod_Max_Writes:	3

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	13
Num Disks	268
Num File Systems	264

Network Subsystem

(Full Configuration On Side 2)

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

Server Tuning

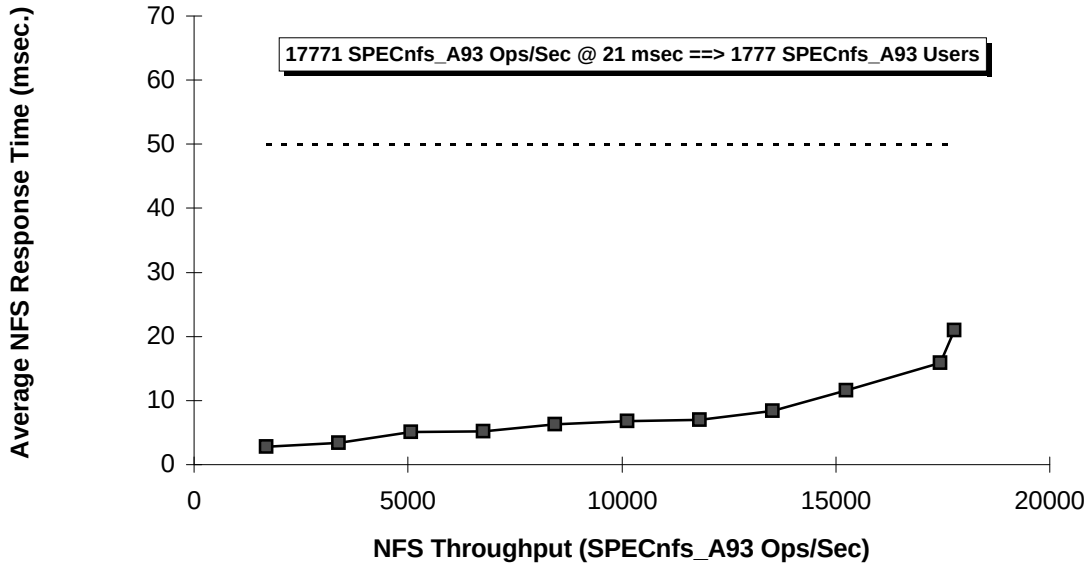
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	512
Fileset Size	97.1GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
1689	2.8
3380	3.4
5073	5.1
6754	5.2
8441	6.3
10128	6.8
11818	7.0
13528	8.4
15247	11.6
17445	15.9
17771	21.0

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

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



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

bufhwm=262144

IGNORE_KERNEL_PREEMPTION=1

ncsize=131072

SSA fast_write enabled

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

Sun Microsystems Inc.
Enterprise 6000/16

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/ 24 2GB 7200rpm drives
Contents 2: F1-F24 Contents 3: F25-F48
Contents 4: F49-F72 Contents 5: F73-F96
Contents 6: F97-F120 Contents 7: F121-F144
Contents 8: F145-F168 Contents 9: F169-F192
Contents 10: F193-F210 Contents 11: F211-F228
Contents 12: F229-F246 Contents 13: F247-F264

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	SS20-712	2	64MB	Solaris 2.5.1 pre-FCS	SC3.0

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1/2	LG1	N1	F1,F15,...,F241/F2,F26,...,F242	default
3/4	LG1	N2	F3,F27,...,F243/F4,F28,...,F244	default
5/6	LG1	N3	F5,F29,...,F245/F6,F30,...,F246	default
7/8	LG1	N4	F7,F31,...,F247/F8,F32,...,F248	default
9/10	LG1	N5	F9,F33,...,F249/F10,F34,...,F250	default
11/12	LG1	N6	F11,F35,...,F251/F12,F36,...,F252	default
13/14	LG1	N7	F13,F37,...,F253/F14,F38,...,F254	default
15/16	LG1	N8	F15,F39,...,F255/F16,F40,...,F256	default
17/18	LG1	N9	F17,F41,...,F257/F18,F42,...,F258	default
19/20	LG1	N9	F19,F43,...,F259/F20,F44,...,F260	default
21/22	LG1	N9	F21,F45,...,F261/F22,F46,...,F262	default
23/24	LG1	N9	F23,F47,...,F263/F24,F48,...,F264	default

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