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	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:	12
Biod_Max_Reads:	2
Biod_Max_Writes:	3

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	13
Num Disks	292
Num File Systems	288

Network Subsystem

(Full Configuration On Side 2)

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

Server Tuning

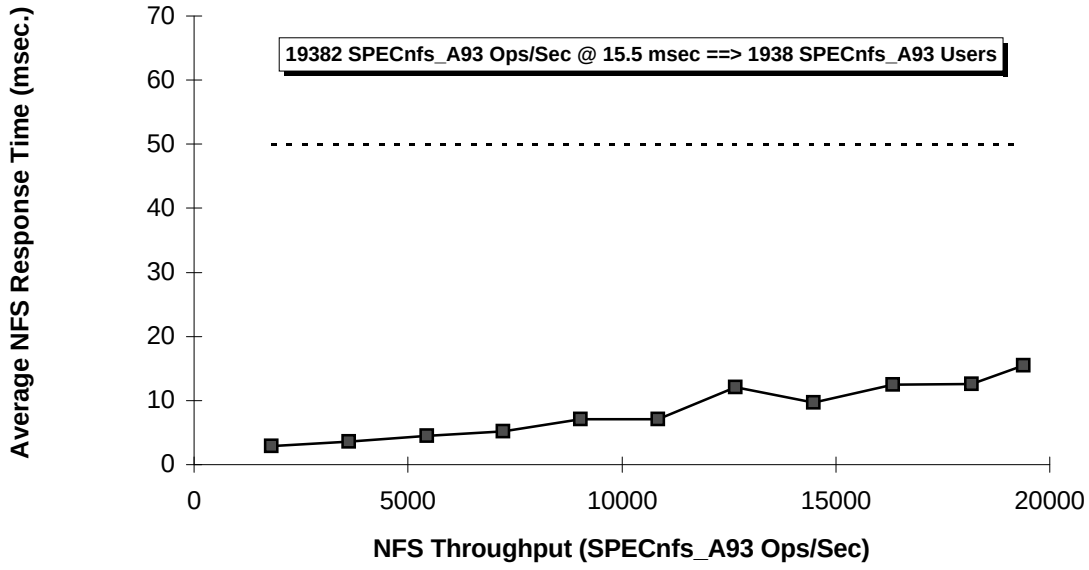
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	512
Fileset Size	102.8GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
1809	2.9
3625	3.6
5439	4.5
7228	5.2
9039	7.1
10842	7.1
12660	12.1
14487	9.7
16332	12.5
18179	12.6
19382	15.5

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 6000/20

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/ 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-F216 Contents 11: F217-F240
Contents 12: F241-F264 Contents 13: F265-F288

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,...,F265/F2,F26,...,F266	default
3/4	LG1	N2	F3,F27,...,F267/F4,F28,...,F268	default
5/6	LG1	N3	F5,F29,...,F269/F6,F30,...,F270	default
7/8	LG1	N4	F7,F31,...,F271/F8,F32,...,F272	default
9/10	LG1	N5	F9,F33,...,F273/F10,F34,...,F274	default
11/12	LG1	N6	F11,F35,...,F275/F12,F36,...,F276	default
13/14	LG1	N7	F13,F37,...,F277/F14,F38,...,F278	default
15/16	LG1	N8	F15,F39,...,F279/F16,F40,...,F280	default
17/18	LG1	N9	F17,F41,...,F281/F18,F42,...,F282	default
19/20	LG1	N9	F19,F43,...,F283/F20,F44,...,F284	default
21/22	LG1	N9	F21,F45,...,F285/F22,F46,...,F286	default
23/24	LG1	N9	F23,F47,...,F287/F24,F48,...,F288	default

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