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

Sun Microsystems Inc.
Ultra Enterprise 4001/8

Server Hardware

CPU, Memory, & Power

Model No.	Ultra Enterprise 4001
CPU	250MHz UltraSPARC II
# of CPUs	8
Primary Cache	16KBI+16KBD on chip
Secondary Cache	1024KB(I+D) off chip
Other Cache	None
Memory	2GB
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:	12
Processes Per Load Generator:	15
Biod_Max_Reads:	3
Biod_Max_Writes:	5

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	7
Num Disks	182
Num File Systems	180

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	6
Num Networks	6
Type Network	100MBit Sun FastEthernet

Server Tuning

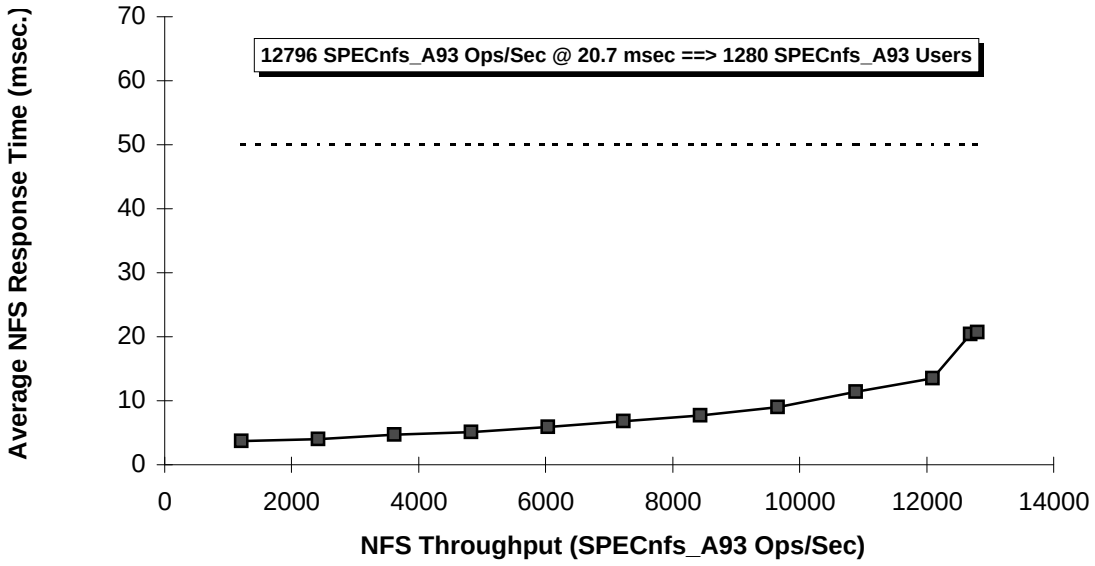
(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	511
Fileset Size	69.7GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
1209	3.7
2419	4.0
3623	4.7
4824	5.1
6033	5.9
7231	6.8
8440	7.7
9660	9.0
10884	11.4
12093	13.5
12687	20.4
12796	20.7

Hardware Availability: Jan-97 | **Software Availability:** May-96

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



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

IGNORE_KERNEL_PREEMPTION=1
ncsize=262144
bufhwm=262144

SSA fast_write enabled

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

Sun Microsystems Inc.
Ultra Enterprise 4001/8

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

Disk Subsystem & Filesystems

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

Controller 2-7: 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

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
	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,F13,...,F169	rw,anon=0
2	LG1	N1	F2,F14,...,F170	rw,anon=0
3	LG1	N2	F3,F15,...,F171	rw,anon=0
4	LG1	N2	F4,F16,...,F172	rw,anon=0
5	LG1	N3	F5,F17,...,F173	rw,anon=0
6	LG1	N3	F6,F18,...,F174	rw,anon=0
7	LG1	N4	F7,F19,...,F175	rw,anon=0
8	LG1	N4	F8,F20,...,F176	rw,anon=0
9	LG1	N5	F9,F21,...,F177	rw,anon=0
10	LG1	N5	F10,F22,...,F178	rw,anon=0
11	LG1	N6	F11,F23,...,F179	rw,anon=0
12	LG1	N6	F12,F24,...,F180	rw,anon=0

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