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

Sun Microsystems Inc.
Sun Enterprise 3002

Server Hardware

CPU, Memory, & Power

Model No.	Sun Enterprise 3002/6
CPU	336MHz UltraSPARC II
# of CPUs	6
Primary Cache	16KBI+16KBD on chip
Secondary Cache	4096KB(I+D) off chip
Other Cache	None
Memory	3GB
UPS	None
Other hardware	SunSwitch

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:	10
Biod_Max_Reads:	3
Biod_Max_Writes:	5

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	5
Num Disks	124
Num File Systems	120

Network Subsystem

(Full Configuration On Side 2)

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

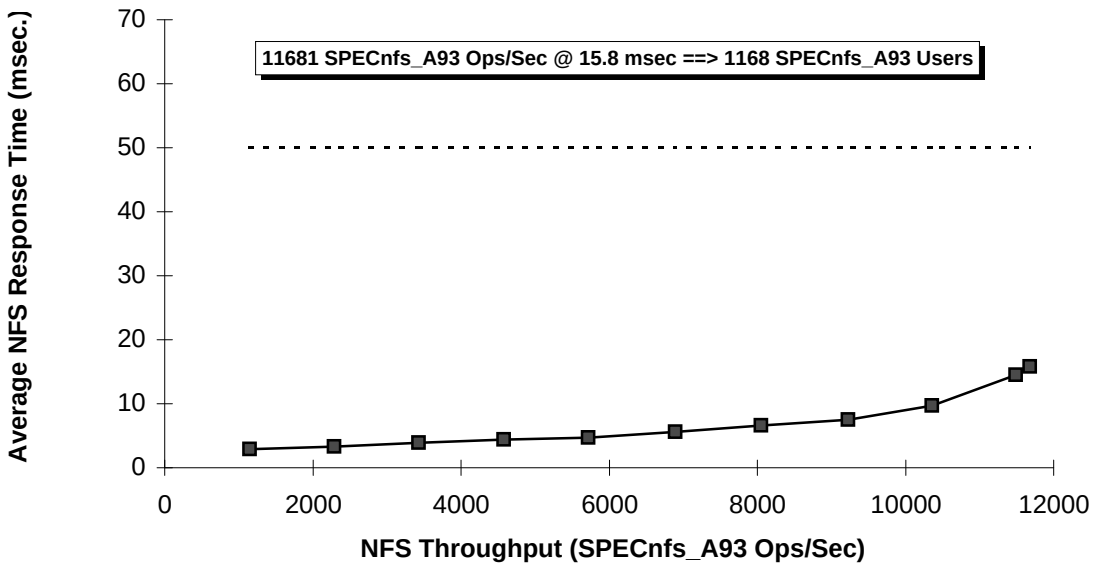
Server Tuning

(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	299
Fileset Size	60.4GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
1145	2.9
2293	3.3
3434	3.9
4580	4.4
5717	4.7
6892	5.6
8053	6.6
9224	7.5
10357	9.7
11493	14.5
11681	15.8

Hardware Availability:	Mar-98			**Software Availability:**	May-96		
License #:	6	**Tested:**	Feb-98	**By:**	Sun	**Of:**	Mountain View



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

IGNORE_KERNEL_PREEMPTION=1
ncsize=524288
bufhwm=1048576

SSA fast_write enabled

Only 100baseT ports of SunSwitch are used

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

Sun Microsystems Inc.
Sun Enterprise 3002

Detailed Server Description

Network Subsystem

1 Sun FastEthernet (N1): 4 LGs
1 Sun FastEthernet (N2): 4 LGs
1 Sun FastEthernet (N3): 4 LGs

Disk Subsystem & Filesystems

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

Controller 2-5: 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

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	Ultra1-170	1	128MB	Solaris 2.6	SC3.0

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1,2	LG1	N1	F1,..,F109/F2,..,F110	default
3,4	LG1	N1	F3,..,F111/F4,..,F112	default
5,6	LG1	N2	F5,..,F113/F6,..,F114	default
7,8	LG1	N2	F7,..,F115/F8,..,F116	default
9,10	LG1	N3	F9,..,F117/F10,..,F118	default
11,12	LG1	N3	F11,..,F119/F12,..,F120	default

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