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

Sun Microsystems Inc.
Sun Enterprise 6002

Server Hardware

CPU, Memory, & Power

Model No.	Sun Enterprise 6002/18
CPU	336MHz UltraSPARC II
# of CPUs	18
Primary Cache	16KBI+16KBD on chip
Secondary Cache	4096KB(I+D) off chip
Other Cache	None
Memory	8GB
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:	30
Processes Per Load Generator:	12
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	9
Num Networks	9
Type Network	100MBit Sun FastEthernet

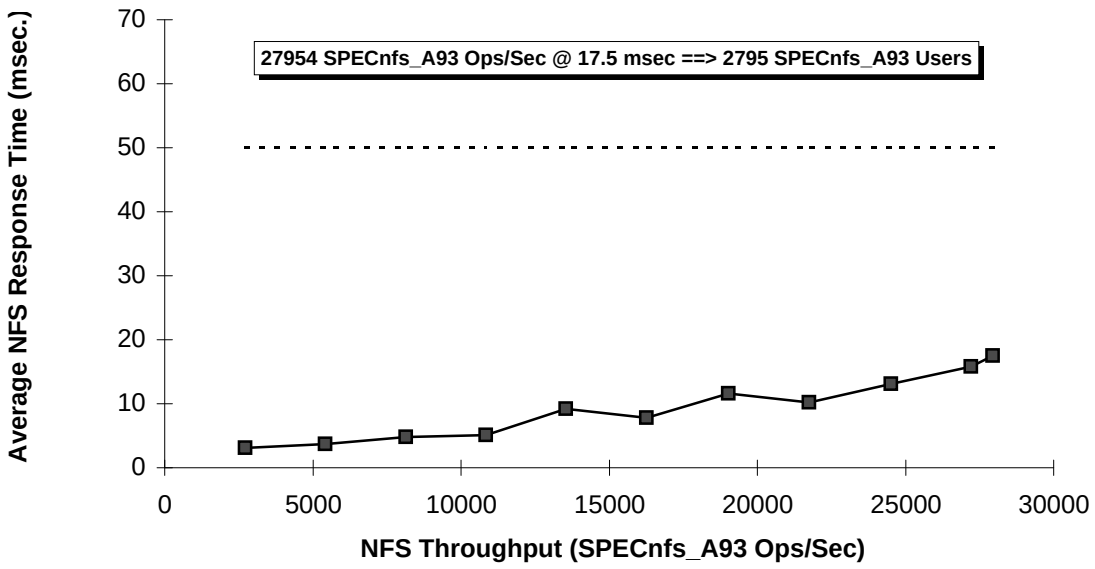
Server Tuning

(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	839
Fileset Size	144.8GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
2720	3.1
5431	3.7
8140	4.8
10840	5.1
13543	9.2
16266	7.8
19022	11.6
21759	10.2
24519	13.1
27214	15.8
27954	17.5

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 6002

Detailed Server Description

Network Subsystem

1 Sun FastEthernet (N1): 4 LGs
1 Sun FastEthernet (N2): 3 LGs
1 Sun FastEthernet (N3): 3 LGs
1 Sun FastEthernet (N4): 4 LGs
1 Sun FastEthernet (N5): 3 LGs
1 Sun FastEthernet (N6): 3 LGs
1 Sun FastEthernet (N7): 4 LGs
1 Sun FastEthernet (N8): 3 LGs
1 Sun FastEthernet (N9): 3 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	128MB	Solaris 2.6	SC3.0

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1,2	LG1	N1	F1,..,F331/F2,..,F332	default
3,4	LG1	N1	F3,..,F333/F4,..,F334	default
5,6,7	LG1	N2	F5,..,F335/F6,..,F336/F7,..,F337	default
8,9,10	LG1	N3	F8,..,F338/F9,..,F339/F10,..,F340	default
11,12	LG1	N4	F11,..,F341/F12,..,F342	default
13,14	LG1	N4	F13,..,F343/F14,..,F344	default
15,16,17	LG1	N5	F15,..,F345/F16,..,F346/F17,..,F347	default
18,19,20	LG1	N6	F18,..,F348/F19,..,F349/F20,..,F350	default
21,22	LG1	N7	F21,..,F351/F22,..,F352	default
23,24	LG1	N7	F23,..,F353/F24,..,F354	default
25,26,27	LG1	N8	F25,..,F355/F26,..,F356/F27,..,F357	default
28,29,30	LG1	N9	F28,..,F358/F29,..,F359/F30,..,F360	default

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