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

Sun Microsystems Inc.

Ultra Enterprise 6001/16

Server Hardware

CPU, Memory, & Power

Model No.	Ultra Enterprise 6001
CPU	250MHz UltraSPARC II
# of CPUs	16
Primary Cache	16KBI+16KBD on chip
Secondary Cache	1024KB(I+D) off chip
Other Cache	None
Memory	5GB
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:	20
Processes Per Load Generator:	15
Biod_Max_Reads:	3
Biod_Max_Writes:	5

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	11
Num Disks	302
Num File Systems	300

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	10
Num Networks	10
Type Network	100MBit Sun FastEthernet

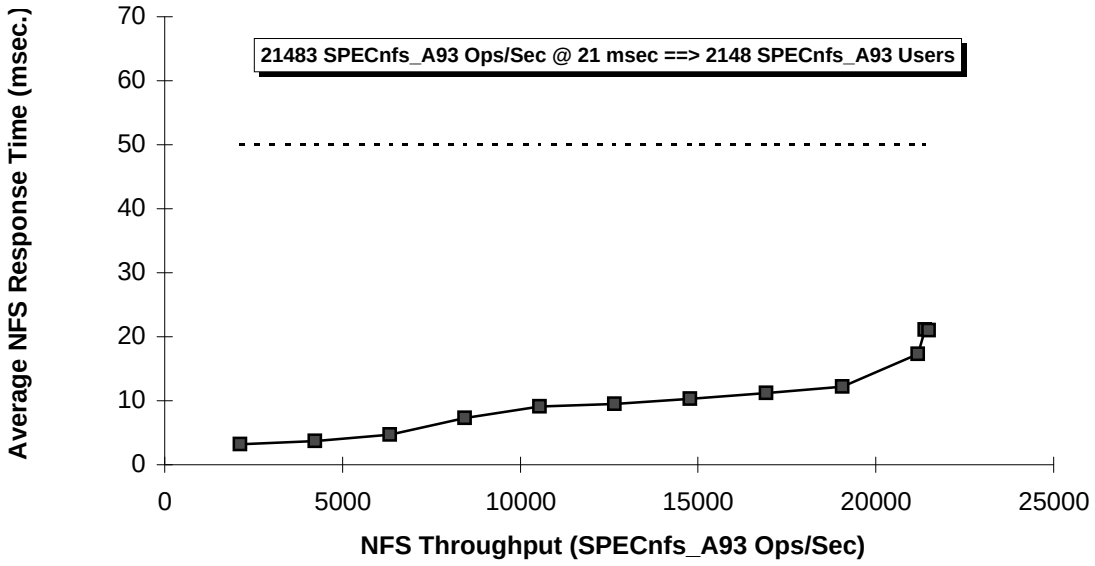
Server Tuning

(Also see Notes/Tuning below)

Buffer Cache Size	Dynamic
Num NFS Daemons	1023
Fileset Size	115.2GB

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
2116	3.2
4231	3.7
6335	4.7
8440	7.3
10552	9.1
12659	9.5
14783	10.3
16925	11.2
19064	12.2
21180	17.3
21384	21.1
21483	21.0

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=524288
bufhwm=524288

SSA fast_write enabled

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

Sun Microsystems Inc.
Ultra Enterprise 6001/16

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

Disk Subsystem & Filesystems

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

Controller 2-11: 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

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	Ultra1-170	1	64MB	Solaris 2.5.1	SC3.0

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1/2	LG1	N1	F1,F21,...,F281/F2,F22,...,F282	default
3/4	LG1	N2	F3,F23,...,F283/F4,F24,...,F284	default
5/6	LG1	N3	F5,F25,...,F285/F6,F26,...,F286	default
7/8	LG1	N4	F7,F27,...,F287/F8,F28,...,F288	default
9/10	LG1	N5	F9,F29,...,F289/F10,F30,...,F290	default
11/12	LG1	N6	F11,F31,...,F291/F12,F32,...,F292	default
13/14	LG1	N7	F13,F33,...,F293/F14,F34,...,F294	default
15/16	LG1	N8	F15,F35,...,F295/F16,F36,...,F296	default
17/18	LG1	N9	F17,F37,...,F297/F18,F38,...,F298	default
19/20	LG1	N10	F19,F39,...,F299/F20,F40,...,F300	default

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