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

Auspex Systems, Inc.

NS 7000 NetServer 510/20 Ethernets

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. NFS Response Time Milliseconds
395	10.5
799	14.2
1204	17.5
1611	19.8
2016	20.9
2418	22.9
2821	25.1
3222	29.4
3626	36.3
3988	46.1
4009	47.5
4015	48.1
4021	48.3

Server Hardware

CPU, Memory, & Power

Model No.	NS 7000 Model 510
Network Processor	40MHz dual CPU SPARC2
Number of NPs	5
Metadata Cache	32 MB per Network Processor (NP)
Other Cache	4 1-MB NVRAM Write Accel.
Host Processor	n/a for NFS
Memory	640MB
UPS	None
Other hardware	None

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	4 Storage Processors (SP)
Num Disks	80
Num File Systems	40 (F1 thru F40)

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	5 Network Processors
Num Networks	20 (N1 thru N20)
Type Network	Ethernet

Server Software

OS Version	Auspex release 1.6.1 alpha 3
Other software	None
File system	Auspex LFS (BSD FFS)

Server Tuning

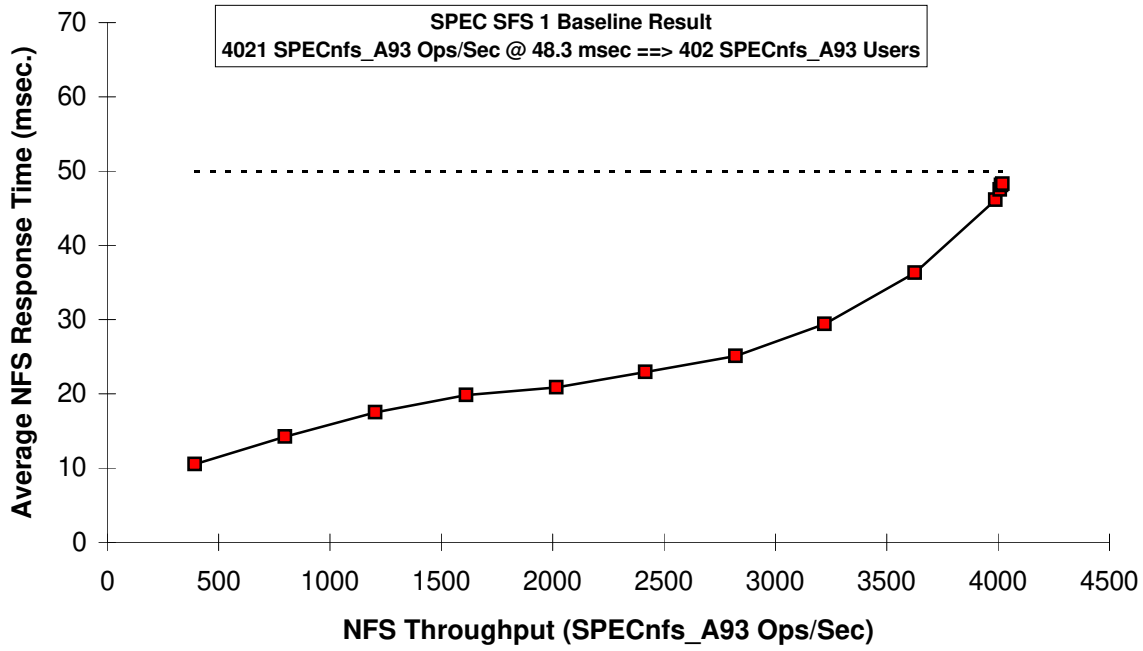
(Also see Notes/Tuning below)

Buffer Cache Size	450 MB (Data Cache)
Num NFS Daemons	48 per NP
Fileset Size	22.87GB

Load Generators (LGs)

Number of Load Generators:	40
Processes Per Load Generator:	4
Biod_Max_Reads:	2
Biod_Max_Writes:	3

Hardware Availability:	Jun-94		**Software Availability:**	Dec-94	
License #:	29	**Tested:**	Jul-94	**By:** Auspex Systems	**Of:** Santa Clara, CA



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

Note: Storage Processors are referenced as "SP0, SP1, SP2;" File Processors as "FP0, FP1, FP2, FP3;" Ethernet Processors as "EP0, EP1, EP2, EP3."
All Load Generators used same LADDIS Mount Points list with same /etc/fstab entries.
The LADDIS Prime Client was the server Host Processor (no router was needed). ThinNet Ethernet cables/transceivers were used. All files are mounted so that clients equally access Network Processors.
See Testbed Configuration Filesystem Mount Options.

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