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

Hewlett-Packard Company
HP 9000 Model D370

Server Hardware

	CPU, Memory, & Power		
Model No.	D370		
CPU	160MHz PA-RISC 8000		
# of CPUs	2		
Primary Cache	512KBI+512KBD off chip		
Secondary Cache	None		
Other Cache	None		
Memory	1.5GB		
UPS	None		
Other hardware	None		

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	2
Num Disks	98
Num File Systems	64

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	2
Num Networks	2
Type Network	155 Mbps ATM

Server Software

OS Version	HP-UX 10.20
Other software	PHKL_9152 PHKL_9154 PHKL_9156 PHKL_9362 PHNE_9182
File system	HFS

Server Tuning

(Also see Notes/Tuning below)

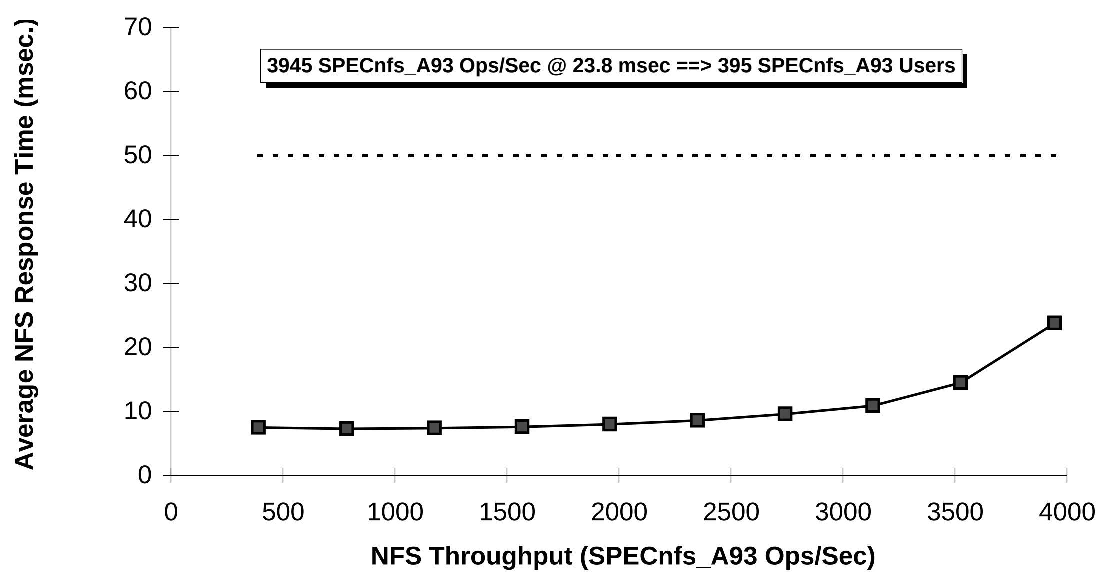
Buffer Cache Size	dynamic
Num NFS Daemons	192
Fileset Size	21.36GB

Load Generators (LGs)

Number of Load Generators:	2
Processes Per Load Generator:	64
Biod_Max_Reads:	2
Biod_Max_Writes:	4

Hardware Availability:	Sep-96	**Software Availability:**	Jan-97
License #: 3	**Tested:** Dec-96	**By:** HP	**Of:** Cupertino, CA

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
392	7.5
785	7.3
1176	7.4
1568	7.6
1959	8.0
2351	8.6
2743	9.6
3134	10.9
3526	14.5
3945	23.8



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

Server's HP-UX Kernel Parameters

dbc_max_pct

ninode 177000

nfile 2048

maxswapchunks 256

nproc 1024

nettune -s ip_intrqmax 256

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

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Detailed Server Description

Network Subsystem

J2498A2 HP-HSC ATM/155 Adapter option 001
J2498A2 HP-HSC ATM/155 Adapter option 001

Disk Subsystem & Filesystems

Controller 1: HSC F/W/Differential SCSI A4107A
Disks: 2 SCSI A3306A 2GB
Contents: OS, page space
4 HP Advanced Disk Array with AutoRAID w/12 2GB 7200 rpm drives each
8 Logical Drives (LUNs) striped 1GB across 12 disk mechanisms per array
Contents: F1,F5,...,F63

Controller 2: HSC F/W/Differential SCSI A4107A
4 HP Advanced Disk Array with AutoRAID w/12 2GB 7200 rpm drives each
8 Logical Drives (LUNs) striped 1GB across 12 disk mechanisms per array

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
LG1	HP 9000 K420	4	1GB	HP-UX 10.20	HP 92453-01 D.10.00 HP C

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1	LG1	N1	F1,F3,...,F63	default
2	LG1	N2	F2,F4,...,F64	default

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

The adb tool was used to turn off disk i/o statistics:
adb -w /stand/vmunix /dev/kmem km_disable/w 1