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

Hewlett-Packard Company
HP Series 9000/V2250 Enterprise Server

Server Hardware

CPU, Memory, & Power

Model No.	V2250
CPU	240MHz PA-RISC 8200
# of CPUs	2
Primary Cache	2MBI+2MBD off chip
Secondary Cache	None
Other Cache	None
Memory	2GB
UPS	None
Other hardware	ODS Concentrator

Disk Subsystem & Filesystems

(Full Configuration on Side 2)

Num Disk Controllers	4
Num Disks	43
Num File Systems	36

Network Subsystem

(Full Configuration On Side 2)

Num Net Controllers	3
Num Networks	3
Type Network	FDDI

Server Software

OS Version	HP-UX 11.00 Extension Pack 9812 64-bit
Other software	None
File system	VXFS

Server Tuning

(Also see Notes/Tuning below)

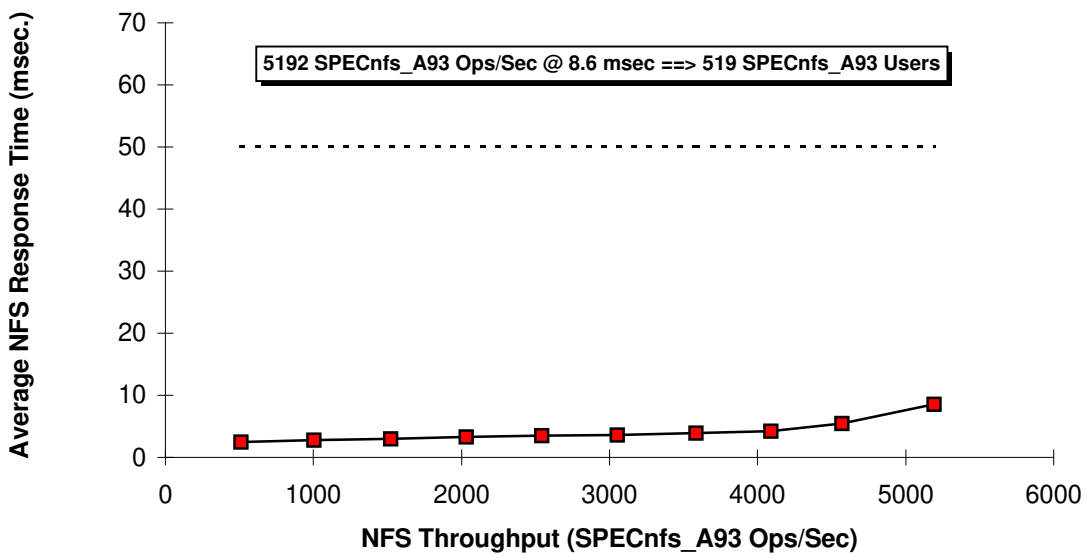
Buffer Cache Size	Dynamic
Num NFS Daemons	54
Fileset Size	28.3GB

Load Generators (LGs)

Number of Load Generators:	6
Processes Per Load Generator:	6
Biod_Max_Reads:	2
Biod_Max_Writes:	2

NFS Throughput SPECnfs_A93 Ops/Sec	Avg. Response Time (NFS) Milliseconds
508	2.5
1001	2.8
1522	3.0
2031	3.3
2540	3.5
3053	3.6
3582	3.9
4089	4.2
4571	5.5
5192	8.6

Hardware Availability:	Mar-98			**Software Availability:**	Dec-98		
License #:	3	**Tested:**	Jun-98	**By:**	HP	**Of:**	Cupertino, CA



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

Server's HP-UX Kernel Parameters:

ninode 400000
nfile 3000
maxswapchunks 32768
dbc_max_pct 50
eqmemsize 100

The adb tool was used to turn off disk i/o statistics:

adb -w /stand/vmunix /dev/kmem km_disable/w 1

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Detailed Server Description

Network Subsystem

PCI FDDI Adapter A3739A (N1): 2 LGs ODS Concentrator
PCI FDDI Adapter A3739A (N2): 2 LGs Dual attach FDDI
PCI FDDI Adapter A3739A (N3): 2 LGs Dual attach FDDI

Disk Subsystem & Filesystems

Controller 1: PCI Ultra Wide SCSI-2 A4800A
Disks: 7 SCSI C2490WD 2GB
Contents: OS, page space, dump

Controllers 2 - 4: PCI FiberChannel 1062 Mb/s Shortwave Adapter A3740A
6 HP Disk Array AutoRAID Model 12H (A3700A) with
FC Mux (A3308A) & 96MB
6 Logical Drives (LUNs) striped 2GB across 12 4GB 7200rpm drives/array
Contents 2: F1,F4,...,F34
Contents 3: F2,F5,...,F35
Contents 4: F3,F6,...,F36

Detailed Load Generator (LG) Description

Load Gen. Type	*Model*	*# of CPUs*	*RAM*	*OS*	*Compiler*
	HP 9000/735	1	96MB	HP-UX 10.20	HP 92453-01 A.10.32.00 HP C
	HP B160	1	128MB	HP-UX 10.20	HP 92453-01 A.10.32.03 HP C

Testbed Configuration

Load Gen. #	*Load Gen. Type*	*Network*	*Target File Systems*	*Notes*
1	LG1	N1	F1,...,F31	default
2	LG1	N1	F2,...,F32	default
3	LG2	N2	F3,...,F33	default
4	LG2	N2		
5	LG2	N3		
6	LG2	N3		

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

no