SPECsfs97 Result

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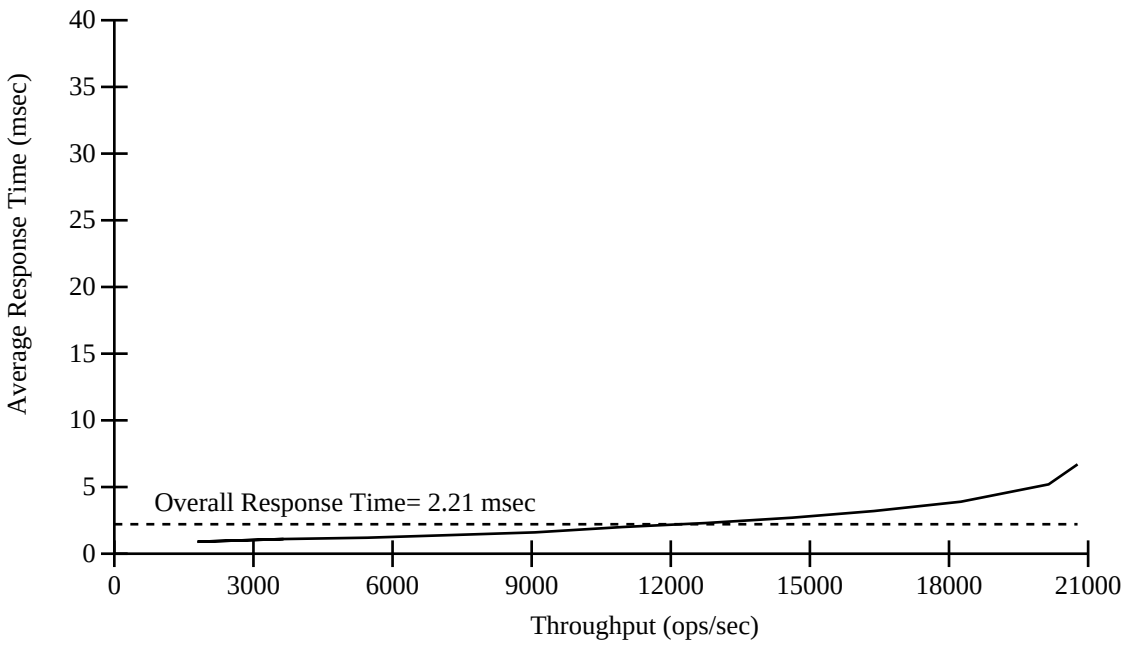
Traakan, Inc.
RainFiler (1-Node,40x36,UDP)

SPECsfs97_R1.v2 =

20772 Ops/Sec (Overall Response Time = 2.21 msec)

Tested:	April 2002	By:	Traakan, Inc.	License #:	1730	Hardware Avail:	February 2002	Software Avail:	April 2002

Throughput (ops/sec)	Average Response (msec)
1795	0.9
3649	1.1
5454	1.2
7279	1.4
9070	1.6
10955	2.0
12754	2.3
14614	2.7
16381	3.2
18257	3.9
20148	5.2
20772	**6.7**



CPU, Memory and Power

Model Name:	RainFiler (1-Node,40x36,UDP)
Processor:	Compaq Proliant DL380 G2, 1.4 GHz PIII
# of Processors:	1
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	512KB(I+D) on chip
Other Cache:	N/A
UPS:	N/A
Other Hardware:	N/A
Memory Size:	4 GB
NVRAM Size:	N/A
NVRAM Type:	N/A
NVRAM Description:	N/A

Server Software

OS Name and Version:	Fastraak 1.21
Other Software:	N/A
File System:	Fastraak SFS2
NFS version:	2

Network Subsystem

Network Type:	1000BASE-SX Ethernet,Intel 82543GC
Network Controller Desc.:	1 Intel PRO/1000 F Server Adapter
Number Networks:	1 (N1)
Number Network Controllers:	1
Protocol Type:	UDP
Switch Type:	1 Cisco Catalyst 3512XL
Bridge Type:	N/A
Hub Type:	N/A
Other Network Hardware:	1 Cisco 1000BASE-SX GBIC

Server Tuning

Buffer Cache Size:	Dynamic
# NFS Processes:	400
Fileset Size:	208.9 GB

Disk Subsystem

Number Disk Controllers:	2
Number of Disks:	40
Number of Filesystems:	10 plus Host OS File System
File System Creation Ops:	default
File System Config:	default
Disk Controller:	Mylex E2000 with 64MB cache+BBU
# of Controller Type:	2
Number of Disks:	20 per Controller
Disk Type:	Quantum Atlas 10KII, 36GB, LVD
File Systems on Disks:	F1-F5/F6-F10
Special Config Notes:	F11 is 50MB Host OS on dc_00

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Load Generator (LG) Configuration

Number of Load Generators:	12
Number of Processes per LG:	10
Biod Max Read Setting:	2
Biod Max Write Setting:	2
LG Type:	LG1
LG Model:	Dell L500cx
Number and Type Processors:	Intel Celeron 500 Mhz, 1 CPU
Memory Size:	512 MB
Operating System:	Solaris 2.8
Compiler:	SFS97_R1 Precompiled Binaries
Compiler Options:	N/A
Network Type:	Intel Pro/100 (82559) 100BASE-T
LG Type:	LG2
LG Model:	FT450
Number and Type Processors:	Intel PIII 1GHz, 1 CPU
Memory Size:	512 MB
Operating System:	FreeBSD 4.4
Compiler:	SFS97_R1 Precompiled Binaries
Compiler Options:	N/A
Network Type:	Intel Pro/100 (82559ER) 100BASE-T

Testbed Configuration

LG #	LG Type	Network	Target File Systems	Notes
1-3, 8-12	LG1	N1	/F1, ..., /F10	N/A
4-7	LG2	N1	/F1, ..., /F10	N/A

Notes/Tuning Information

Other Notes
-Fastraak 1.21 SFS2, is a fully journaled file system that journals both user and metadata.
-No host NVRAM present. The total integral disk cache for the two PCI Mylex Raid Controllers is 128MB of NVRAM with BBU.
-Virtual Storage Manager is Disabled
-RainFilers support up to 100 Storage Nodes.
-Testbed Filesystem to Controller Configuration: F1-F5 on dc_00, F6-F10 on dc_01.
-1 File System on each 4 Drive RAID0 Set