SPECsfs97 Result

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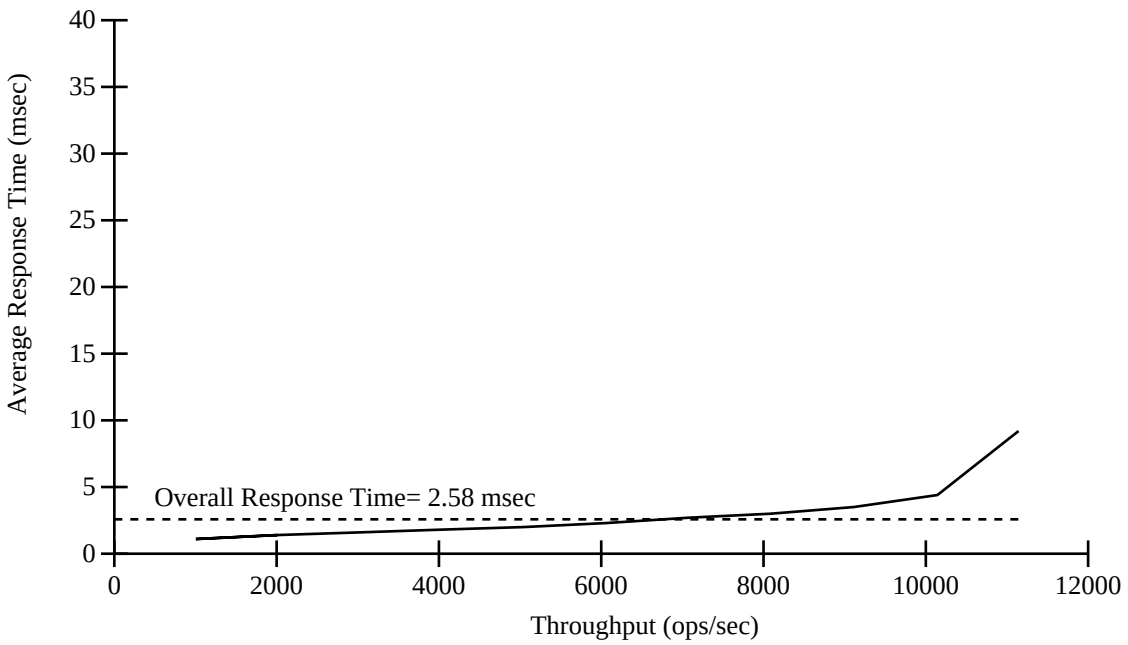
Traakan, Inc.
RainFiler (1-Node,32x36,TCP)

SPECsfs97_R1.v3 =

11143 Ops/Sec (Overall Response Time = 2.58 msec)

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

Throughput (ops/sec)	Average Response (msec)
1005	1.1
2012	1.4
3028	1.6
4003	1.8
5053	2.0
6065	2.3
7078	2.7
8088	3.0
9113	3.5
10143	4.4
11143	**9.2**



CPU, Memory and Power

Model Name:	RainFiler (1-Node,32x36,TCP)
Processor:	Compaq Proliant DL380, 1.266GHz 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 1.19
Other Software:	N/A
File System:	Fastraak SFS2
NFS version:	3

Network Subsystem

Network Type:	100BASE-T Ethernet, all Intel 82559
Network Controller Desc.:	2 Integrated + 2 on Compaq NC3134 NIC
Number Networks:	4 (N1-N4)
Number Network Controllers:	4
Protocol Type:	TCP
Switch Type:	4 Hewlett Packard ProCurve 4000M
Bridge Type:	N/A
Hub Type:	N/A
Other Network Hardware:	N/A

Server Tuning

Buffer Cache Size:	Dynamic
# NFS Processes:	400
Fileset Size:	106.4 GB

Disk Subsystem

Number Disk Controllers:	2
Number of Disks:	32
Number of Filesystems:	8 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:	16 per Controller
Disk Type:	Quantum Atlas 10KII (3.5 Series) LVD
File Systems on Disks:	F1-F8, 1 FS on each 4 Drive Raid0 Set
Special Config Notes:	F9 (200MB OS) beginning of first Raid0 Set

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Load Generator (LG) Configuration

Number of Load Generators:	8
Number of Processes per LG:	11
Biod Max Read Setting:	2
Biod Max Write Setting:	2
LG Type:	LG1
LG Model:	Dell L500cx
Number and Type Processors:	1 Intel Celeron 500 Mhz
Memory Size:	512 MB
Operating System:	Solaris 2.8
Compiler:	N/A, SFS97_R1 Precompiled Binaries
Compiler Options:	N/A
Network Type:	Intel Pro/100 (82559) 100BASE-T

Testbed Configuration

LG #	LG Type	Network	Target File Systems	Notes
1	LG1	N1	F1,5,2,6,3,7,4,8,1,5,2	bc1
2	LG1	N2	F6,3,7,4,8,1,5,2,6,3,7	bc3
3	LG1	N3	F4,8,1,5,2,6,3,7,4,8,1	bc7
4	LG1	N4	F5,2,6,3,7,4,8,1,5,2,6	bc9
5	LG1	N1	F3,7,4,8,1,5,2,6,3,7,4	bc2
6	LG1	N2	F8,1,5,2,6,3,7,4,8,1,5	bc6
7	LG1	N3	F2,6,3,7,4,8,1,5,2,6,3	bc8
8	LG1	N4	F7,4,8,1,5,2,6,3,7,4,8	bc10

Notes/Tuning Information

Other Notes
- -Fastraak 1.19 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-F4 on dc_00, F5-F8 on dc_01.