SPECsfs97 Result

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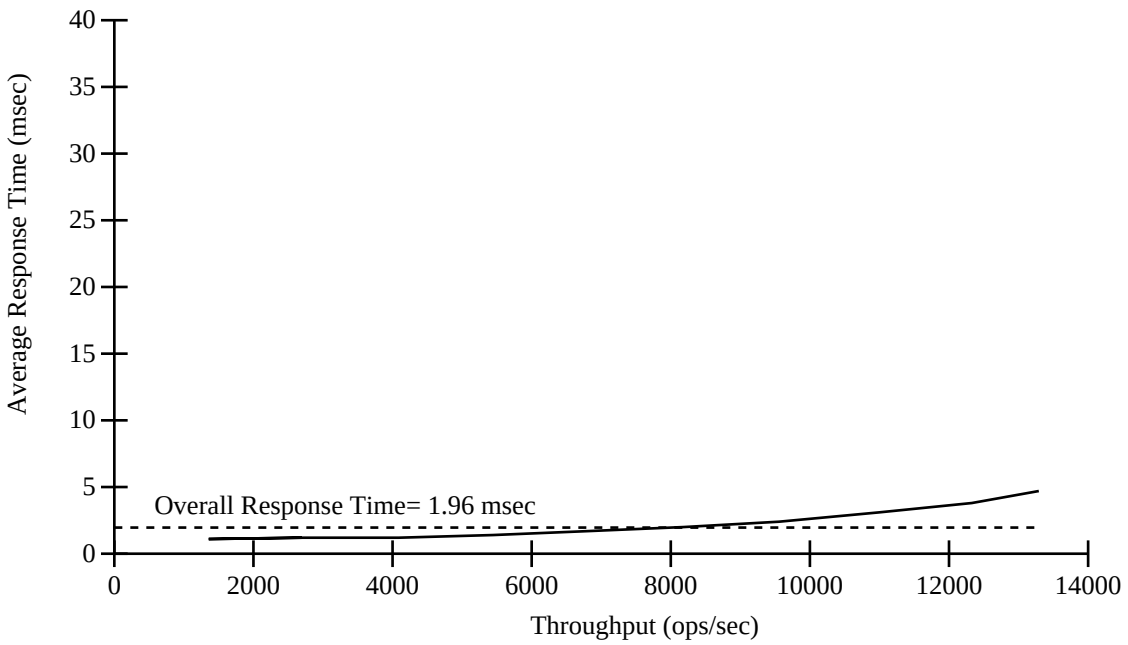
Procom Technology Inc.
NetFORCE 1800

SPECsfs97_R1.v3 =

13291 Ops/Sec (Overall Response Time = 1.96 msec)

Tested:	Aug 2003	By:	Procom Technology Inc.	License #:	80	Hardware Avail:	Aug 2003	Software Avail:	Aug 2003

Throughput (ops/sec)	Average Response (msec)
1357	1.1
2694	1.2
4087	1.2
5445	1.4
6834	1.7
8189	2.0
9555	2.4
10996	3.1
12328	3.8
13291	**4.7**



CPU, Memory and Power

Model Name:	NetFORCE 1800
Processor:	2.80 GHz Xeon (533 MHz Front_side Bus)
# of Processors:	1
Primary Cache:	(12KBI + 8KBD) on chip
Secondary Cache:	512KB
Other Cache:	N/A
UPS:	N/A
Other Hardware:	N/A
Memory Size:	4 GB (System Memory)
NVRAM Size:	256 MB (RAID controller)
NVRAM Type:	SDRAM Cache Memory
NVRAM Description:	3-days battery Protection

Server Software

OS Name and Version:	NetFORCE Ver.4.2.Build85
Other Software:	None
File System:	sfs2
NFS version:	3

Network Subsystem

Network Type:	Gigabit Ethernet
Network Controller Desc.:	Gigabit Ethernet [PCI,1000Base-SX]
Number Networks:	1
Number Network Controllers:	1
Protocol Type:	TCP
Switch Type:	Extreme Summit48i
Bridge Type:	N/A
Hub Type:	N/A
Other Network Hardware:	N/A

Server Tuning

Buffer Cache Size:	Default
# NFS Processes:	60
Fileset Size:	130.0 GB

Disk Subsystem

Number Disk Controllers:	2
Number of Disks:	38
Number of Filesystems:	4
File System Creation Ops:	N/A
File System Config:	See notes.
Disk Controller:	Ultra 160 SCSI [Model No: BA03052]
# of Controller Type:	2
Number of Disks:	38
Disk Type:	Seagate ST3146807LC 146GB 10K RPM
File Systems on Disks:	/vol1 /vol2 /vol3 /vol4
Special Config Notes:	See notes.

For More Information contact

SPEC

info@spec.org
http://www.spec.org/

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Load Generator (LG) Configuration

Number of Load Generators:	14
Number of Processes per LG:	4
Biod Max Read Setting:	2
Biod Max Write Setting:	2
LG Type:	LG
LG Model:	Intel Base
Number and Type Processors:	PIII 700 MHz
Memory Size:	256 MB
Operating System:	Redhat 7.0
Compiler:	gcc 2.96
Compiler Options:	-DNO_T_TYPES-DUSE_INTTYPES
Network Type:	Intel PCI 100Base-T

Testbed Configuration

LG #	LG Type	Network	Target File Systems	Notes
1..14	LG	1	/vol1 /vol2 ..../vol4, /vol1 /vol2 ..../vol4, /....	N/A

Notes/Tuning Information

Other Notes

-There are two file systems on one RAID0 group with five disks and 8KB stripe size on first controller.
-There are two file systems on one RAID0 group with five disks and 8KB stripe size on second controller.
-There is one extension per file system,each extension is one RAID0 group with seven disks and 8KB stripe.
-There are total of four extensions with two on each controller.
-The extension is concatenated to the base file system to provide additional capacity.
-The total disk drives are (2*5)+(4*7)=38, 19 disks per controller.
-All of drives are 146GB with 10k rpm.
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-These are the parameters set in the OS:
-NFS worker set to 60.
-Directory audit is disable.
-set Unicode character.[nfs.utf8=yes]
-Disable file system read ahead.
-Disable file system access time update.