SPECsfs97 Result

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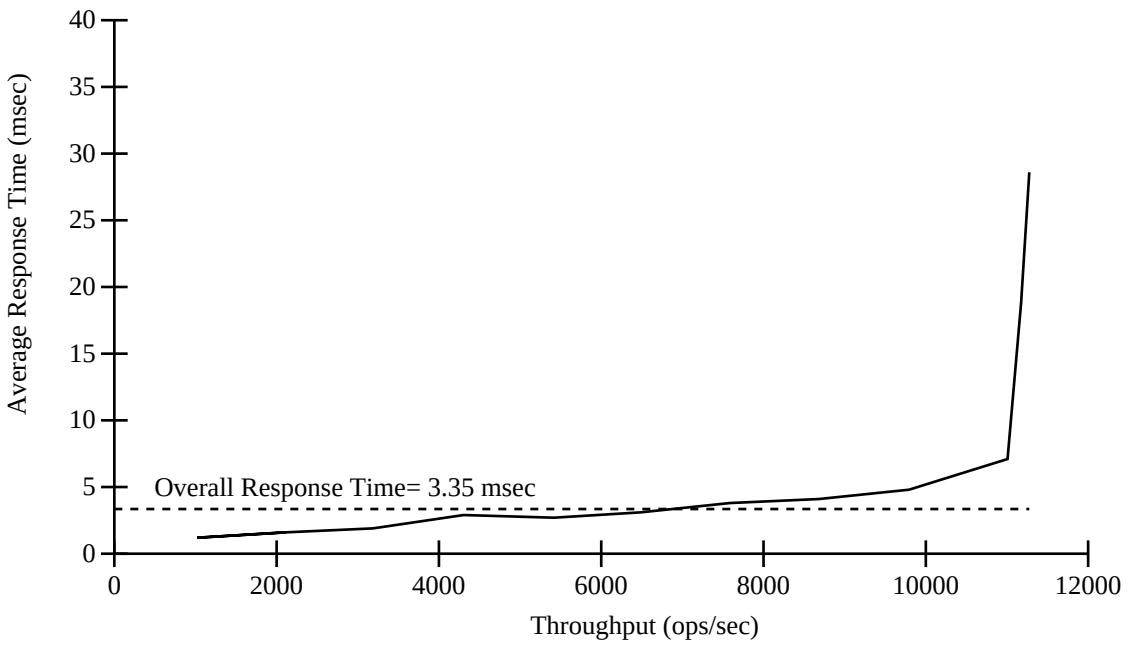
Sun Microsystems Inc.
Sun Enterprise 3500/4500

SPECsfs97.v3 =

11275 Ops/Sec (Overall Response Time = 3.35 msec)

Tested:	Sep 2000	By:	Sun Microsystems Inc.	License #:	6	Hardware Avail:	Aug 2000	Software Avail:	Apr 2000

Throughput (ops/sec)	Average Response (msec)
1021	1.2
2107	1.6
3188	1.9
4304	2.9
5416	2.7
6483	3.1
7588	3.8
8683	4.1
9793	4.8
11007	7.1
11174	18.8
11275	**28.6**



CPU, Memory and Power

Model Name:	Sun Enterprise 3500/4500
Processor:	400 MHz UltraSPARC II
# of Processors:	6
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	8MB(I+D) off chip
Other Cache:	N/A
UPS:	N/A
Other Hardware:	N/A
Memory Size:	8 GB
NVRAM Size:	6144MB (256MB per Sun StorEdge T3 controller)
NVRAM Type:	Sun StorEdge T3 write cache
NVRAM Description:	auto-sensing WB/WT depending battery charge

Server Software

OS Name and Version:	Solaris8_64bit
Other Software:	N/A
File System:	UFS
NFS version:	3

Network Subsystem

Network Type:	1000Mbit Sun GigabitEthernet
Network Controller Desc.:	Sun GigabitEthernet SBus adaptor 2.0
Number Networks:	2 (N1,N2)
Number Network Controllers:	2
Protocol Type:	UDP
Switch Type:	2 Extremenetworks Summit2 switch
Bridge Type:	N/A
Hub Type:	N/A
Other Network Hardware:	N/A

Server Tuning

Buffer Cache Size:	Dynamic
# NFS Processes:	384
Fileset Size:	108.0 GB

Disk Subsystem

Number Disk Controllers:	13
Number of Disks:	222
Number of Filesystems:	24 (F1-F24)
File System Creation Ops:	default
File System Config:	default
Disk Controller:	On-board SCSI-2
# of Controller Type:	1
Number of Disks:	6
Disk Type:	9GB 7200rpm
File Systems on Disks:	OS, swap
Special Config Notes:	
Disk Controller:	FC-AL SBus Adapter (FC100/S)/GBIC
# of Controller Type:	12 (i=1,2,..,12)
Number of Disks:	9,9/9,9/9,9/9,9/9,9/9,9/9,9/9,9/9,9/9,9/9,9/9,9
Disk Type:	18GB 10000rpm FC-AL (ST118202FC)
File Systems on Disks:	F1,F2/F3,F4/../F23,F24
Special Config Notes:	Filesystem on RAID5 LUNs (see "Other Notes")

For More Information contact

SPEC

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http://www.spec.org/

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Load Generator (LG) Configuration

Number of Load Generators:	16
Number of Processes per LG:	48
Biod Max Read Setting:	5
Biod Max Write Setting:	5
LG Type:	LG1
LG Model:	Ultra1-200
Number and Type Processors:	1 200MHz UltraSPARC
Memory Size:	256MB
Operating System:	Solaris7
Compiler:	SC4.2
Compiler Options:	-fast -O
Network Type:	SunSwift 100baseT f/w SCSI SBus Adapter

Testbed Configuration

LG #	LG Type	Network	Target File Systems	Notes
1/2/../8	LG1	N1	2x(F1-F24)	N/A
9/10/../16	LG1	N2	2x(F1-F24)	N/A

Notes/Tuning Information

Other Notes
-ufs_ninode=786432
-ncsize=1048576
-bufhwm=1310720
-
-12 FC-AL loops each connects to 2 Sun StorEdge T3
-Each Sun StorEdge T3 consists of 9 disks configured as 1 RAID 5 LUN
-One filesystem undertest is built on each T3 LUN
-Each client accesses all 24 filesystems undertest