SPECsfs97 Result

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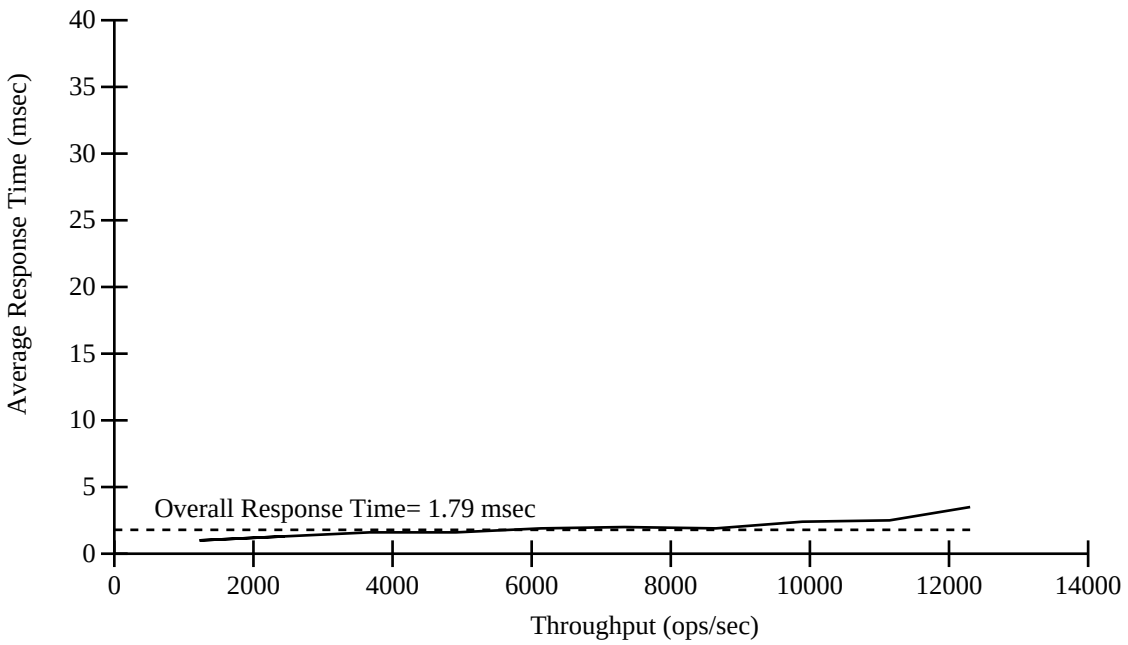
Sun Microsystems
Sun Fire 280R

SPECsfs97_R1.v3=

12304 Ops/Sec (Overall Response Time = 1.79 msec)

Tested:	May 2002	By:	Sun Microsystems	License #:	6	Hardware Avail:	Dec 2001	Software Avail:	May 2002

Throughput (ops/sec)	Average Response (msec)
1226	1.0
2445	1.3
3671	1.6
4911	1.6
6135	1.9
7333	2.0
8648	1.9
9891	2.4
11145	2.5
12304	**3.5**



CPU, Memory and Power

Model Name:	Sun Fire 280R
Processor:	900 MHz UltraSPARC III Cu
# of Processors:	2
Primary Cache:	32KBI+64KBD on chip
Secondary Cache:	8MB(I+D) off chip
Other Cache:	none
UPS:	N/A
Other Hardware:	N/A
Memory Size:	8 GB
NVRAM Size:	2.5GB (256MB per Sun StorEdge T3 Controller)
NVRAM Type:	Sun StorEdge T3 write cache
NVRAM Description:	auto-sensing WB/WT depending on battery charge

Server Software

OS Name and Version:	Solaris 9
Other Software:	N/A
File System:	UFS
NFS version:	3

Network Subsystem

Network Type:	Sun GigabitEthernet PCI adapter 2.0
Network Controller Desc.:	Gigabit Ethernet
Number Networks:	1 (N1)
Number Network Controllers:	1
Protocol Type:	TCP
Switch Type:	Cisco Catalyst 4912G Switch
Bridge Type:	N/A
Hub Type:	N/A
Other Network Hardware:	N/A

Server Tuning

Buffer Cache Size:	dynamic
# NFS Processes:	1024
Fileset Size:	117.0 GB

Disk Subsystem

Number Disk Controllers:	3
Number of Disks:	91
Number of Filesystems:	10 (F1-F10)
File System Creation Ops:	Default
File System Config:	Striped across 9 disk luns with a 49GB filesystem
Disk Controller:	On-board FC-AL
# of Controller Type:	1
Number of Disks:	1
Disk Type:	Seagate Cheetah 36GB 10K RPM
File Systems on Disks:	OS, swap
Special Config Notes:	N/A
Disk Controller:	Sun cPCI Dual FC-AL Network Adapter (1 Gbit/port)
# of Controller Type:	2
Number of Disks:	90
Disk Type:	Seagate Cheetah 18GB 10K RPM
File Systems on Disks:	F1-5, F6-10
Special Config Notes:	Filesystems on RAID 0 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:	2
Number of Processes per LG:	20
Biod Max Read Setting:	2
Biod Max Write Setting:	2
LG Type:	LG1
LG Model:	Sun Enterprise 420R
Number and Type Processors:	UltraSPARC II
Memory Size:	4GB
Operating System:	Solaris 8 02/02
Compiler:	cc, used SFS97_R1 Precompiled Binaries
Compiler Options:	N/A
Network Type:	Sun GigabitEthernet PCI adapter 2.0

Testbed Configuration

LG #	LG Type	Network	Target File Systems	Notes
1,2	LG1	N1	/F1-10, /F1-10	N/A

Notes/Tuning Information

Other Notes
-rlim_fd_max=70000, rlim_fd_cur=70000, autoup=600, tune_t_fsflushr=10,
-maxphys=1048576, maxusers=2048, tcp_conn_hash_size=262144
-ge_intr_mode=1, ge_dmaburst_mode=1, bufhwm=815040, ncsize=1048576
-ufs_ninode=1048576, segmap_percent=70, ufs_HW=4194304, ufs_LW=1048576
-
-Each Sun cPCI Dual FC-AL Network Adapter connects to 2 SUN FCAL 7
-port hubs. Three Sun StorEdge T3s connects to one hub and two
-Sun StorEdge T3s connects to the other hub for a total of five
-Sun StorEdge T3s per Sun cPCI Dual FC-AL Network Adapter.
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-Each Sun StorEdge T3 consists of 9 disks configured as one RAID 0 LUN
-T3 setings: 16K blk_sz
-One filesystem per T3