# SPECsfs97 Result

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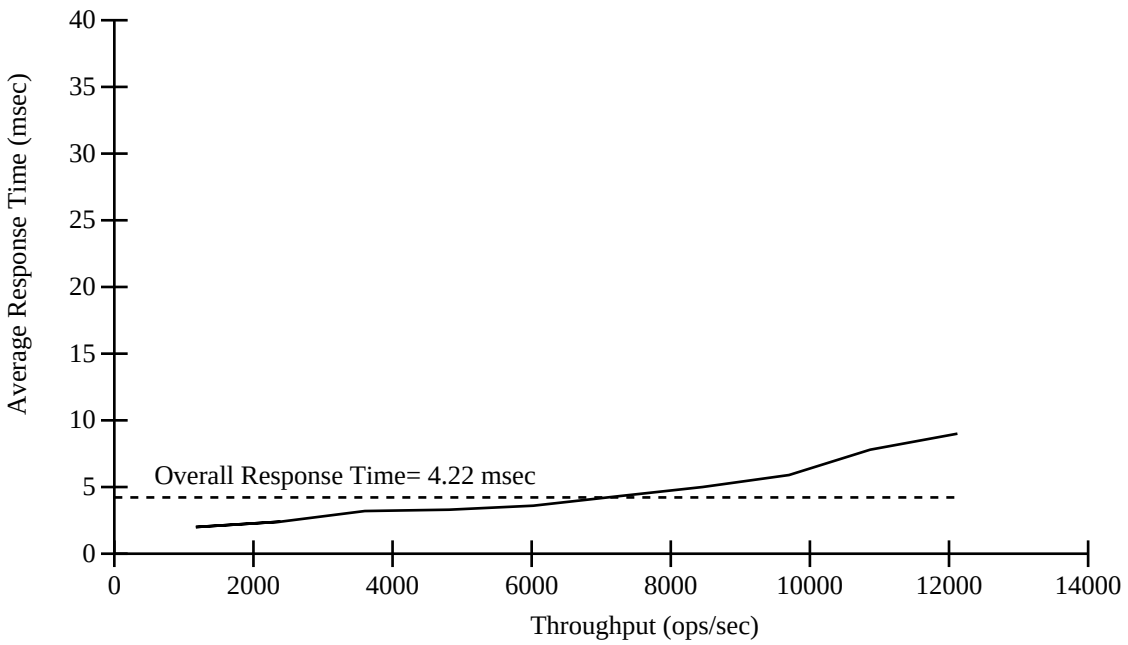
## Auspex Systems, Inc.
## NS2000 (3-node, RAID5, NetOS 3.0.1)

SPECsfs97.v3 =

**12121 Ops/Sec (Overall Response Time = 4.22 msec)**

| Tested: | December 2000 | By: | Auspex Systems, Inc. | License #: | 29 | Hardware Avail: | March 1999 | Software Avail: | January 2001 |
|---|---|---|---|---|---|---|---|---|---|

| Throughput (ops/sec) | Average Response (msec) |
|---|---|
| 1172 | 2.0 |
| 2387 | 2.4 |
| 3601 | 3.2 |
| 4813 | 3.3 |
| 6023 | 3.6 |
| 7228 | 4.3 |
| 8456 | 5.0 |
| 9700 | 5.9 |
| 10867 | 7.8 |
| **12121** | **9.0** |




## CPU, Memory and Power

| | |
|---|---|
| Model Name: | NS2000 (3-node, RAID5, NetOS 3.0.1) |
| Processor: | Pentium II 333 MHz |
| # of Processors: | 6 (2 per node) |
| Primary Cache: | 16 KB I + 16 KB D on-chip |
| Secondary Cache: | 512 KB (I+D) on-chip |
| Other Cache: | none |
| UPS: | none |
| Other Hardware: | Host processor (270 MHz Ultra-SPARC-IIi) |
| Memory Size: | 3 GB (1 GB per node) |
| NVRAM Size: | 576 MB (192 MB per node) |
| NVRAM Type: | SIMMs |
| NVRAM Description: | 2-week battery-backed shelf-life |

## Server Software

| | |
|---|---|
| OS Name and Version: | NetOS 3.0.1 |
| Other Software: | Solaris 2.6 (on the Host processor) |
| File System: | Auspex FastFLO |
| NFS version: | 3 |

## Network Subsystem

| | |
|---|---|
| Network Type: | Gigabit Ethernet |
| Network Controller Desc.: | Alteon PCI adapter card model#71-0012 |
| Number Networks: | 1 (N1) |
| Number Network Controllers: | 3 (1 per node) |
| Protocol Type: | TCP |
| Switch Type: | Alteon Network ACEswitch 180 (2) |
| Bridge Type: | N/A |
| Hub Type: | N/A |
| Other Network Hardware: | N/A |

## Server Tuning

| | |
|---|---|
| Buffer Cache Size: | dynamic |
| # NFS Processes: | 180 (60 per node) |
| Fileset Size: | 117.0 GB |

## Disk Subsystem

| | |
|---|---|
| Number Disk Controllers: | 10 (3 per node, 1 for Host processor) |
| Number of Disks: | 136 (45 per node, 1 for host OS) |
| Number of Filesystems: | 45 (15 per node) |
| File System Creation Ops: | default |
| File System Config: | 3-member RAID5 filesystems |
| | |
| Disk Controller: | Ultra Wide SCSI controller (3 nodes) |
| # of Controller Type: | 3/3/3 |
| Number of Disks: | 45/45/45 |
| Disk Type: | 36GB Quantum (TY36J01E-01-Z-E) |
| File Systems on Disks: | F1, F4, ... F43/F2, F5 ... F44/F3, F6, ... F45 |
| Special Config Notes: | none |
| | |
| Disk Controller: | Symbios SCSI Controller (Host processor) |
| # of Controller Type: | 1 |
| Number of Disks: | 1 |
| Disk Type: | 36GB Quantum (KN36J005) |
| File Systems on Disks: | Host OS |
| Special Config Notes: | none |

For More Information contact

SPEC

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

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## Load Generator (LG) Configuration

| | |
|---|---|
| Number of Load Generators: | 10 |
| Number of Processes per LG: | 45 |
| Biod Max Read Setting: | 2 |
| Biod Max Write Setting: | 2 |
| | |
| LG Type: | LG1 |
| LG Model: | Sun Microsystems Ultra 10 |
| Number and Type Processors: | 1 x 333 MHz UltraSPARC-IIi |
| Memory Size: | 256 MB |
| Operating System: | Solaris 2.6 |
| Compiler: | SC3.0.1 |
| Compiler Options: | see SPEC-supplied wrapper & makefile |
| Network Type: | Sun Vector Gigabit Ethernet PCI |

A line in your configuration is too long
or you have too many lines.
Please fix the problem and try again

## Notes/Tuning Information

Other Notes
-The filesystems were mounted uniformly across all 3 nodes(eg. F1 on node-1, F2) ( on node-2 etc.).
-Each load generator accessed all filesystems from all 3 nodes.
-The NVRAM in the disk controllers, used in write-back mode, also has write-through capability.
-The two Gigabit switches (each with 8 ports) were daisy-chained to connect the server (3 nodes)
-and 10 clients.