# SPECsfs97 Result

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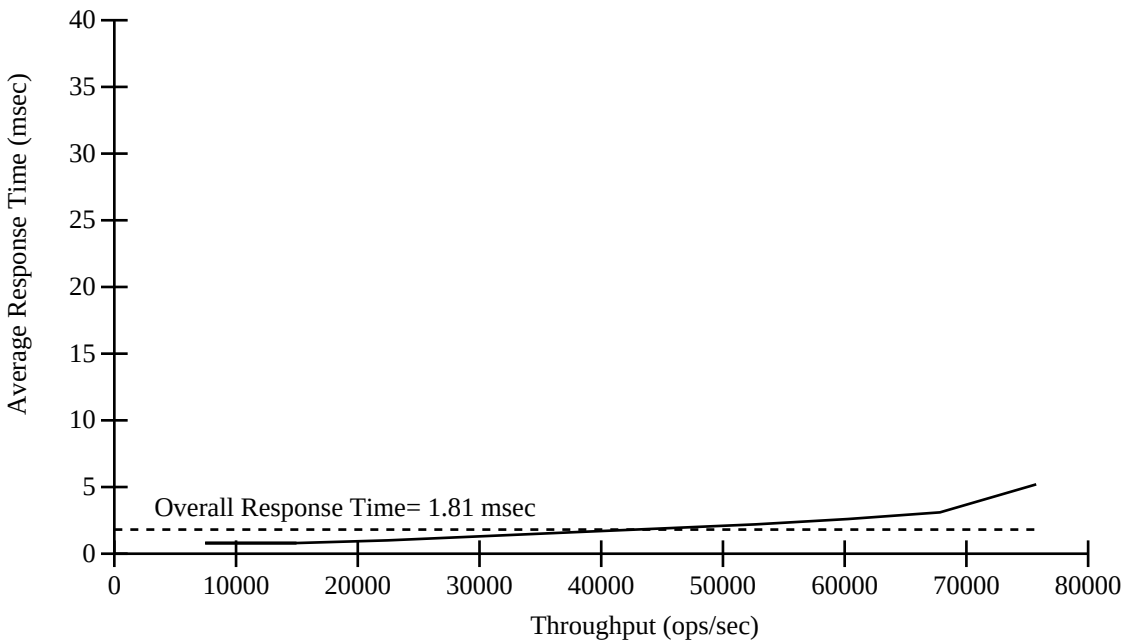
Spinnaker Networks
SpinServer 4100 (3-node Scalable Cluster, HA Failover)

SPECsfs97_R1.v3 =
**75735 Ops/Sec (Overall Response Time = 1.81 msec)**

| Tested: | May 2003 | By: | Spinnaker Networks | License #: | 84 | Hardware Avail: | June 2003 | Software Avail: | June 2003 |
|---|---|---|---|---|---|---|---|---|---|

| Throughput (ops/sec) | Average Response (msec) |
|---|---|
| 7459 | 0.8 |
| 14968 | 0.8 |
| 22442 | 1.0 |
| 29973 | 1.3 |
| 37429 | 1.6 |
| 45137 | 1.9 |
| 52671 | 2.2 |
| 60260 | 2.6 |
| 67828 | 3.1 |
| **75735** | **5.2** |




## CPU, Memory and Power

| | |
|---|---|
| Model Name: | SpinServer 4100 (3-node Scalable Cluster, HA Failover) |
| Processor: | 2.8 GHz Intel Xeon |
| # of Processors: | 6 (2 per node) |
| Primary Cache: | 12 K uops I + 8 KB D on-chip |
| Secondary Cache: | 512 KB on-chip |
| Other Cache: | N/A |
| UPS: | APC Smart-UPS 1000 (1 per node) |
| Other Hardware: | Brocade Silkworm 3800 Switch |
| Memory Size: | 12 GB (4 GB per node) |
| NVRAM Size: | 5.1 GB (1.7 GB per node) |
| NVRAM Type: | UPS backed write cache and mirrored local SCSI drives |
| NVRAM Description: | see notes |

## Server Software

| | |
|---|---|
| OS Name and Version: | SpinFS 2.1 |
| Other Software: | none |
| File System: | SpinFS |
| NFS version: | 3 |

## Network Subsystem

| | |
|---|---|
| Network Type: | Jumbo Frame Gigabit Ethernet |
| Network Controller Desc.: | 1316-0014-01 (PCI Adapter) |
| Number Networks: | 2 (N1-Client, N2-Cluster) |
| Number Network Controllers: | 9 (1 Client and 2 Clusters per node) |
| Protocol Type: | TCP |
| Switch Type: | Extreme Summit 7i |
| Bridge Type: | N/A |
| Hub Type: | N/A |
| Other Network Hardware: | N/A |

## Server Tuning

| | |
|---|---|
| Buffer Cache Size: | default |
| # NFS Processes: | N/A |
| Fileset Size: | 715.5 GB |

## Disk Subsystem

| | |
|---|---|
| Number Disk Controllers: | 3 (1 per node) |
| Number of Disks: | 144 (48 per node) |
| Number of Filesystems: | 1 namespace (see notes) |
| File System Creation Ops: | default |
| File System Config: | 27 RAID-Groups of 5 disks each |
| Disk Controller: | 1316-0015-01 (2Gb FC-AL Adapter) |
| # of Controller Type: | 3 (dual-ported) |
| Number of Disks: | 144 |
| Disk Type: | 1320-0008-01 (146GB, 10K RPM) |
| File Systems on Disks: | F1 |
| 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: | 12 |
| Number of Processes per LG: | 36 |
| Biod Max Read Setting: | 2 |
| Biod Max Write Setting: | 2 |
| | |
| LG Type: | LG1 |
| LG Model: | Dell PowerEdge 1550 |
| Number and Type Processors: | 2x1.0-GHz Pentium III |
| Memory Size: | 1024 MB |
| Operating System: | Linux 2.4.9-31smp (Red Hat 7.2) |
| Compiler: | gcc 2.96 |
| Compiler Options: | -O -DNO_T_TYPES -DUSE_INTTYPES |
| Network Type: | 3COM 3C996-T GigE, MTU=9000 |

## Testbed Configuration

| LG # | LG Type | Network | Target File Systems | Notes |
|---|---|---|---|---|
| 1/2/../12 | LG1 | N1 | F1 | N/A |

## Notes/Tuning Information

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