# SPEC SFS 1 Summary (Side 1 of 2) 097.LADDIS

## Digital Equipment Corporation
## AlphaServer 2000 4/275

### Server Hardware

***CPU, Memory, & Power***

| | |
|---|---|
| Model No. | AlphaServer 2000 4/275 |
| CPU | 275 MHz DECchip 21064A |
| # of CPUs | 2 |
| Primary Cache | 16KBI+16KBD on chip |
| Secondary Cache | 4MB(I+D) off chip |
| Other Cache | None |
| Memory | 1GB |
| UPS | None |
| Other hardware | Prestoserve |

***Server Software***

| | |
|---|---|
| OS Version | DEC OSF/1 V3.2 |
| Other software | OSF patch # OSF32_60 |
| File system | UFS |

***Load Generators (LGs)***

| | |
|---|---|
| Number of Load Generators: | 4 |
| Processes Per Load Generator: | 6 |
| Biod_Max_Reads: | 32 |
| Biod_Max_Writes: | 32 |

***Disk Subsystem & Filesystems***

(Full Configuration on Side 2)

| | |
|---|---|
| Num Disk Controllers | 5 |
| Num Disks | 25 |
| Num File Systems | 24 (F1-F24) |

***Network Subsystem***

(Full Configuration On Side 2)

| | |
|---|---|
| Num Net Controllers | 1 |
| Num Networks | 1 (N1) |
| Type Network | FDDI |

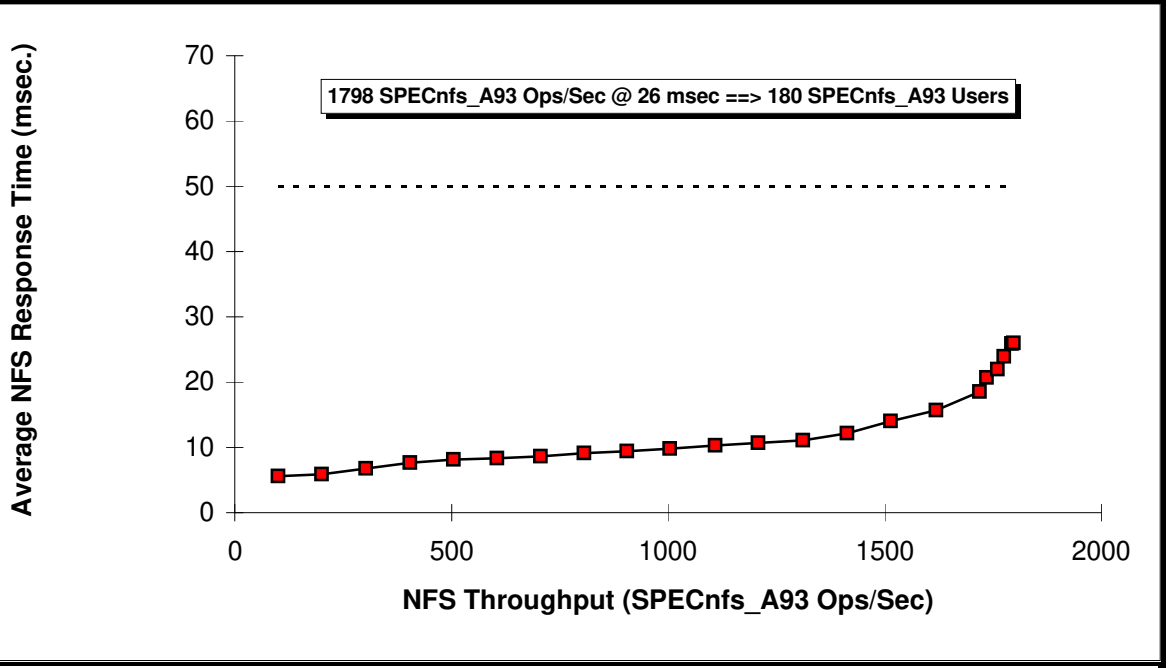
***Server Tuning***

(Also see Notes/Tuning below)

| | |
|---|---|
| Buffer Cache Size | Dynamic (UBC Cache) |
| Num NFS Daemons | 32 |
| Fileset Size | 7.8GB |

| NFS Throughput SPECnfs_A93 Ops/Sec | Avg. Response Time (NFS) Milliseconds |
|---|---|
| 100 | 5.6 |
| 201 | 5.9 |
| 303 | 6.8 |
| 404 | 7.6 |
| 505 | 8.1 |
| 605 | 8.3 |
| 706 | 8.6 |
| 807 | 9.1 |
| 906 | 9.4 |
| 1005 | 9.8 |
| 1109 | 10.3 |
| 1209 | 10.7 |
| 1311 | 11.1 |
| 1413 | 12.2 |
| 1514 | 14.0 |
| 1619 | 15.7 |
| 1719 | 18.5 |
| 1735 | 20.7 |
| 1760 | 22.0 |
| 1775 | 23.9 |
| 1798 | 26.0 |

| | | | | | |
|---|---|---|---|---|---|
| **Hardware Availability:** | Nov-94 | **Software Availability:** | Mar-95 | | |
| **License #:** | 2 | **Tested:** | Mar-95 | **By:** | Digital | **Of:** | Nashua, NH |




**Notes/Summary Of Tuning Parameters: (Continued on Side 2 of 2)**

bufcache: 10% (102 MB)
ubcbuffers: 1024
maxusers: 1024
ubc-maxdirtywrites: 100
prmetaonly: 1
vnode_age: 600
vnode_dealloc_enable: 0
ufs_disable_reada: 1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## Digital Equipment Corporation

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### Detailed Server Description

***Network Subsystem***

1 DEC FDDI Controller (DEFPA-AA) on the Server
1 FDDI (N1): 4 LGs
1 DECconcentrator 500 (DEFCN-BC)

***Disk Subsystem & Filesystems***

1 On-board Adaptec 810 Controller:
Controller 1: 1 RZ26L 1.05 GB disk -- OS and swap
3 Mylex SWXR (EISA) controllers:
Controller 2: 6 RZ26L 1.05 GB disk (partition c) -- F1-F6
Controller 3: 6 RZ26L 1.05 GB disk (partition c) -- F7-F12
Controller 4: 6 RZ26L 1.05 GB disk (partition c) -- F12-F18
1 Mylex SWXR (PCI) controller:
Controller 5: 6 RZ26L 1.05 GB disk (partition c) -- F19-F24
1 PCI Prestoserve Filesystem Accelerator
Enabled for File systems F1-F24

### Detailed Load Generator (LG) Description

| *Load Gen. Type* | *Model* | *# of CPUs* | *RAM* | *OS* | *Compiler* |
|---|---|---|---|---|---|
| LG1 | DEC 3000 Model 600 AXP | 1 | 64 MB | DEC OSF/1 V2.0 | cc |

### Testbed Configuration

| *Load Gen. #* | *Load Gen. Type* | *Network* | *Target File Systems* | *Notes* |
|---|---|---|---|---|
| 1 | LG1 | N1 | F1,F7,F13,F19,F2,F8 | Default |
| 2 | LG1 | N1 | F14,F20,F3,F9,F15,F21 | Default |
| 3 | LG1 | N1 | F4,F10,F16,F22,F5,F11 | Default |
| 4 | LG1 | N1 | F17,F23,F6,F12,F18,F24 | Default |

### Notes/Summary Of Tuning Parameters: (Continued from Side 1 of 2)

lad_sync: 1


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