## SPECweb99 Result

**Dell Computer Corporation: PowerEdge 2400/667**  
**Microsoft: Internet Information Server 5.0**  

**SPECweb99 = 732**  
Test Date: Mar-2000  
Tester: Dell  

### Hardware

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Dell Computer Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>PowerEdge 2400/667</td>
</tr>
<tr>
<td>Processor</td>
<td>667MHz Pentium III</td>
</tr>
<tr>
<td># Processors</td>
<td>1 core, 1 chip, 1 core/chip</td>
</tr>
<tr>
<td>Primary Cache</td>
<td>16KB1+16KBD on chip</td>
</tr>
<tr>
<td>Secondary Cache</td>
<td>256KB+(+D) on chip</td>
</tr>
<tr>
<td>Other Cache</td>
<td>None</td>
</tr>
<tr>
<td>Memory</td>
<td>2 GB</td>
</tr>
<tr>
<td>Disk Subsystem</td>
<td>5 9GB 10KRPM drives</td>
</tr>
<tr>
<td>Disk Controllers</td>
<td>Onboard PERC2/Si RAID</td>
</tr>
<tr>
<td>Other Hardware</td>
<td>1 Alteon ACEswitch 180</td>
</tr>
</tbody>
</table>

### Software

- Operating System: Windows 2000 Advanced Server  
- File System: NTFS  
- Other Software: None

### HTTP Software

- Vendor: Microsoft  
- HTTP Software: Internet Information Server 5.0  
- API: ISAPI  
- Server Cache: None  
- Log Mode: W3C Extended Log File Format

### Test Sponsor

- Test Date: Mar-2000  
- Tested By: Dell  
- SPEC License: 55

### Network

- # of Controllers: 1  
- Network Controllers: Alteon AceNIC PCI  
- # of Nets: 1  
- Type of Nets: Gigabit Ethernet  
- Network Speed: 1Gb/s  
- MSL (sec): 30 (Non RFC1122)  
- Time-Wait (sec): 60 (Non RFC1122)  
- MTU: 1500

### Clients

- # of Clients: 5  
- Model: Dell Precision 410  
- Processor: 450MHz Pentium II  
- Memory: 128MB  
- Network Controller: Alteon AceNIC PCI  
- Operating System: Windows 2000 Professional  
- Compiler: Microsoft Visual C++ 6.0

## Notes/Tuning Information

### SUT Notes

- IIS settings: maximum performance.  
- IIS Virtual Directory spec99 points back to web server root, low application protection.  
- IIS Logging: W3C Extended logging, defaults plus bytes sent.

### Operating System Notes

Tuning parameters:

- Tcpip/Parameters/MaxHashTableSize=0x10000, sets TCB hash table size to 65,536 entries, default is 512.  
- Tcpip/Parameters/TcpTimedWaitDelay=0x3c, sets TIME_WAIT parameter to 60 seconds (non-RFC 1122), default is 240.  
- Tcpip/Parameters/MaxFreeTwTcbs=400000, sets maximum number of TIME_WAIT tcbs to 400,000.  
- Tcpip/Parameters/MaxUserPort = 0xfffe, sets maximum open ports to 65534.  
- Tcpip/Parameters/TcpWindowSize = 17520, sets TCP send/receive window size, default 8192.  
- Tcpip/Parameters/NumTcpTablePartitions = 16, sets number of independent TCP table segments, default 4.  
- Inetinfo/Parameters/ObjectCacheTTL=0xfffff, sets IIS object cache timeout, default 10 minutes  
- Inetinfo/Parameters/ListenBacklog=1000, default 25.  
- Inetinfo/Parameters/AcceptExTimeout=1, sets time for accept ex socket to wait for receive, default 120.  
- Inetinfo/Parameters/LogFileFlushInterval=60, forces flush every 60 seconds, default 300.  
- Inetinfo/Parameters/MaxPoolThreads=20, maximum network request threads per processor, default 10.  
- Inetinfo/Parameters/PoolThreadLimit=20, maximum pool threads in system, default 2*#MB.  
- Alteon NIC settings in registry:  
  - StatTicks=0, default 100000.  
  - SendCoalTicks=10000, sets number of microsec before send buffers are returned to host, default 100000.  
  - RecvCoalTicks=10000, sets number of microsec before recv buffers are given to host, default 100000.  
  - RecvCoalMax=80, sets number of frames received before notifying host, default 20.  
  - RxFlowControl=0 (off), default 1.
HTTP API Notes
Microsoft ISAPI for IIS 5.0 compiled with VC++ 6.0, code optimization = Pentium Pro.

Hardware Notes
One 9GB 10KRPM disk for OS, paging and logs, 4 9GB 10KRPM disks striped for web pages.