# SPEC CFP95 Results

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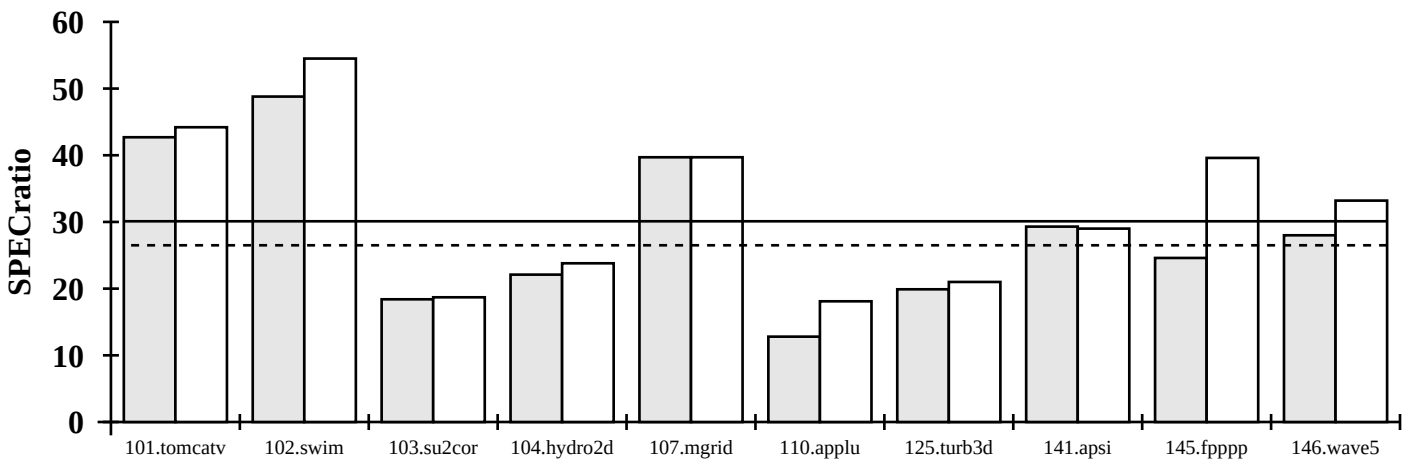
## Sun Microsystems
## Sun Enterprise 3500/4500

SPECfp95 = 30.1

SPECfp_base95 = 26.5

| SPEC license # 6 | Tested By: Sun, Palo Alto | Test Date: Mar-99 | Hardware Avail: May-99 | Software Avail: Mar-99 |
|---|---|---|---|---|




Hardware/Software Configuration for:
Sun Enterprise 3500/4500

**Hardware**

| | |
|---|---|
| Model Name: | Sun Enterprise 3500/4500 |
| CPU: | 400MHz UltraSPARC II |
| FPU: | Integrated |
| Number of CPU(s): | 1 |
| Primary Cache: | 16KBI+16KBD on chip |
| Secondary Cache: | 8MB(I+D) off chip |
| Other Cache: | None |
| Memory: | 2GB |
| Disk Subsystem: | 2 x 9GB |
| Other Hardware: | FastEthernet |

**Software**

| | |
|---|---|
| Operating System: | Solaris7_64bit |
| Compiler: | Sun F77 5.0 |
| File System: | UFS |
| System State: | Multi-User |
| Kernel Extensions: | |

| Benchmark # and Name | Reference Time | Base Run Time | Base SPEC Ratio | Run Time | SPEC Ratio |
|---|---|---|---|---|---|
| 101.tomcatv | 3700 | 86.6 | 42.7 | 84 | 44.2 |
| 102.swim | 8600 | 176 | 48.8 | 158 | 54.5 |
| 103.su2cor | 1400 | 76.1 | 18.4 | 75 | 18.7 |
| 104.hydro2d | 2400 | 109 | 22.1 | 101 | 23.8 |
| 107.mgrid | 2500 | 63.0 | 39.7 | 63 | 39.7 |
| 110.applu | 2200 | 172 | 12.8 | 122 | 18.1 |
| 125.turb3d | 4100 | 206 | 19.9 | 195 | 21.0 |
| 141.apsi | 2100 | 71.6 | 29.3 | 72 | 29.0 |
| 145.fpppp | 9600 | 390 | 24.6 | 242 | 39.6 |
| 146.wave5 | 3000 | 107 | 28.0 | 90 | 33.2 |
| SPECfp_base95 (G. Mean) | | | 26.5 | | |
| | | SPECfp95 (G. Mean) | | | 30.1 |

## Notes/Tuning Information

```
BCOPY =  -Qoption iropt -O4+bcopy
INV =    -Qoption iropt -O4+invccexp
FULTRA = -fast -xarch=v8plusa -xchip=ultra
Baseline: -fast -xarch=v8plusa -fsimple=2 -xprefetch
101.tomcatv: ${FULTRA} -xpad=local:23 -xprefetch
102.swim: ${FULTRA} -xpad=common:15 -xprefetch -fsimple=2
103.su2cor: ${FULTRA} -xvector -Qoption cg -Qms_pipe+nfll=5 -fsimple=2 -xprefetch ${BCOPY} -lmvec
104.hydro2d: ${FULTRA} -xprefetch -Qoption iropt -O4+pde -fsimple=2 -xprofile=use
107.mgrid: ${FULTRA} -xprefetch -fsimple=2 ${BCOPY}
110.applu: ${FULTRA} -fsimple=2
110 cont: -Qoption iropt -O4+ddint+scalarrep+perfect+loop_dist+pde+algassoc,-Mt6000,-Mr20000,-Ma140,-ldstr
125.turb3d: ${FULTRA} -stackvar -xpad -fsimple=2 -Qoption iropt -O4+bcopy ${INV} -xvector=yes
141.apsi: ${FULTRA} -fsimple=2 -stackvar -Qoption iropt -Si36 ${INV} -Qoption iropt -O4+algassoc
145.fpppp: ${FULTRA} -xO5 -xsafe=mem -fsimple=2
145 cont: -Qoption iropt -O4+algassoc -Qoption iropt -reroll=1 -xprofile=use
146.wave5: ${FULTRA}  -stackvar -fsimple=2 -Qoption iropt -O4+unroll ${BCOPY}
```

For More Information Contact: SPEC info@spec.org http://www.spec.org/

-- Prepared By: chakng