# SPEC CFP95rate Results

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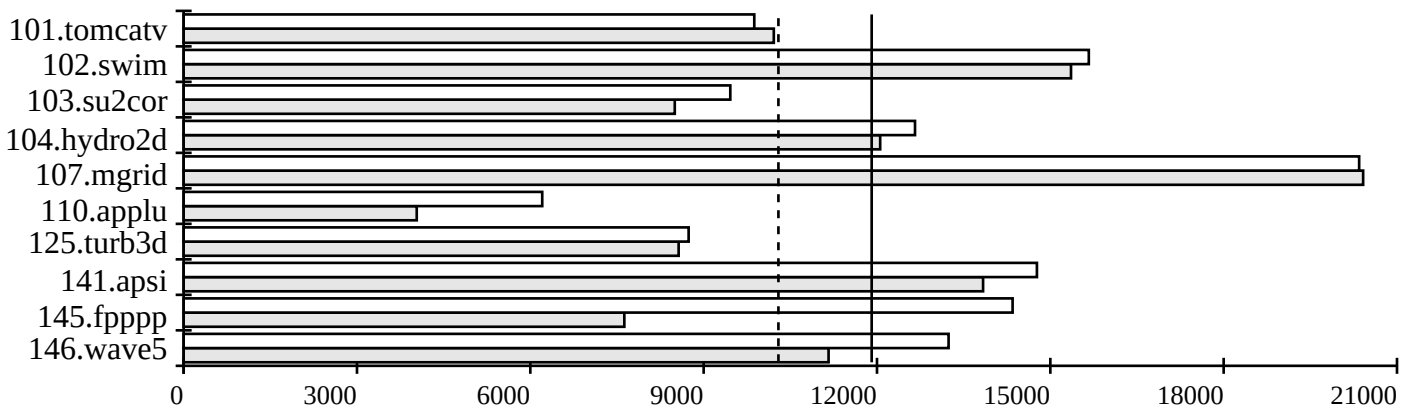
## Sun Microsystems
## Sun Enterprise 10000

SPECfp_rate95 = 11908

SPECfp_rate_base95 = 10294

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




Hardware/Software Configuration for:
Sun Enterprise 10000

**Hardware**

| | |
|---|---|
| Model Name: | Enterprise 10000 |
| CPU: | 400MHz UltraSPARC II |
| FPU: | Integrated |
| Number of CPU(s): | 64 |
| Primary Cache: | 16KBI+16KBD on chip |
| Secondary Cache: | 8MB(I+D) off chip per CPU |
| Other Cache: | None |
| Memory: | 64 GB |
| Disk Subsystem: | 35 x 9.0GB |
| Other Hardware: | Ethernet |

**Software**

| | |
|---|---|
| Operating System: | Solaris 7 |
| Compiler: | Sun f77 5.0 |
| File System: | UFS |
| System State: | Multiple User |
| Kernel Extensions: | |

| Benchmark # and Name | Base Copies | Base Run Time | Base SPEC Ratio | Copies | Run Time | SPEC Ratio |
|---|---|---|---|---|---|---|
| 101.tomcatv | 64 | 209 | 10214 | 64 | 216 | 9876 |
| 102.swim | 64 | 323 | 15358 | 64 | 316 | 15666 |
| 103.su2cor | 64 | 94.9 | 8500 | 64 | 85 | 9461 |
| 104.hydro2d | 64 | 115 | 12055 | 64 | 109 | 12658 |
| 107.mgrid | 64 | 70.5 | 20414 | 64 | 71 | 20345 |
| 110.applu | 64 | 314 | 4034 | 64 | 204 | 6206 |
| 125.turb3d | 64 | 276 | 8567 | 64 | 270 | 8740 |
| 141.apsi | 64 | 87.4 | 13836 | 64 | 82 | 14768 |
| 145.fpppp | 64 | 725 | 7627 | 64 | 385 | 14347 |
| 146.wave5 | 64 | 155 | 11162 | 64 | 131 | 13239 |
| SPECfp_rate_base95 (G. Mean) | | | 10294 | | | |
| SPECfp_rate95 (G. Mean) | | | | | | 11908 |

## Notes/Tuning Information

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

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