# SPEC CFP95rate Results

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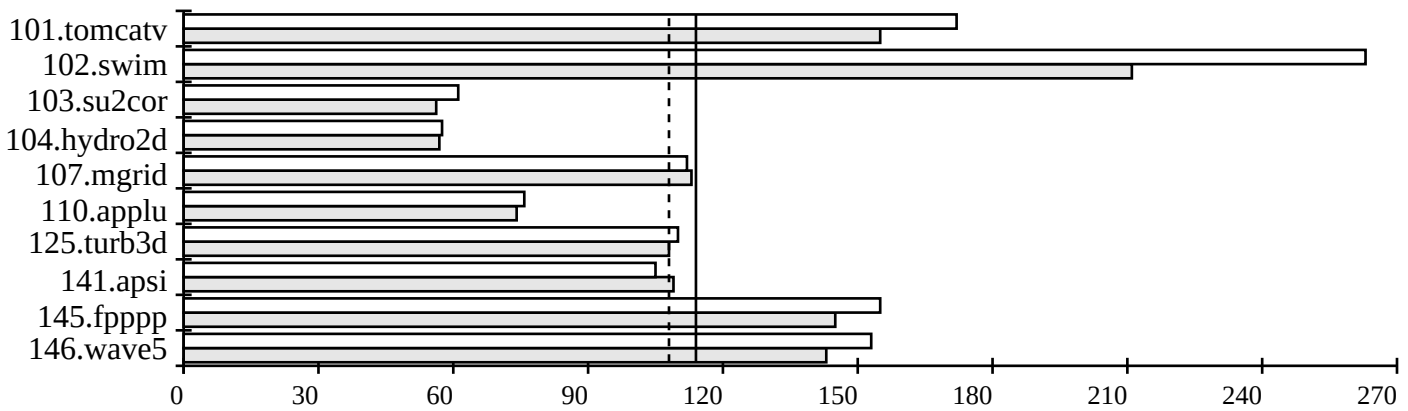
## Sun Microsystems
## Ultra 10 300MHz

SPECfp_rate95 = 114

SPECfp_rate_base95 = 108

| SPEC license # 6 | Tested By: Sun, Palo Alto | Test Date: Dec-97 | Hardware Avail: Jan-98 | Software Avail: May-98 |
|---|---|---|---|---|




Hardware/Software Configuration for:
Ultra 10 300MHz

**Hardware**

| | |
|---|---|
| Model Name: | Ultra 10 300MHz |
| CPU: | 300MHz UltraSPARC-IIi |
| FPU: | Integrated |
| Number of CPU(s): | 1 |
| Primary Cache: | 16KBI+16KBD on chip |
| Secondary Cache: | 0.5MB(I+D) off chip |
| Other Cache: | None |
| Memory: | 512MB |
| Disk Subsystem: | 2 x 4.01GB |
| Other Hardware: | Fast Ethernet |
| | System clock frequency: 100 MHz |

**Software**

| | |
|---|---|
| Operating System: | Solaris 2.5.1 HW 1197 |
| Compiler: | Sun f77 5.0 alpha |
| File System: | UFS |
| System State: | Single User |

| Benchmark # and Name | Base Copies | Base Run Time | Base SPEC Ratio | Copies | Run Time | SPEC Ratio |
|---|---|---|---|---|---|---|
| 101.tomcatv | 2 | 430 | 155 | 2 | 387 | 172 |
| 102.swim | 2 | 734 | 211 | 2 | 588 | 263 |
| 103.su2cor | 2 | 448 | 56.2 | 2 | 412 | 61.1 |
| 104.hydro2d | 2 | 760 | 56.9 | 2 | 752 | 57.5 |
| 107.mgrid | 2 | 397 | 113 | 2 | 402 | 112 |
| 110.applu | 2 | 534 | 74.1 | 2 | 522 | 75.8 |
| 125.turb3d | 2 | 685 | 108 | 2 | 668 | 110 |
| 141.apsi | 2 | 348 | 109 | 4 | 722 | 105 |
| 145.fpppp | 2 | 1191 | 145 | 4 | 2233 | 155 |
| 146.wave5 | 2 | 377 | 143 | 2 | 353 | 153 |
| SPECfp_rate_base95 (G. Mean) | | | 108 | | | |
| | | | SPECfp_rate95 (G. Mean) | | | 114 |

## Notes/Tuning Information

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

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