# SPEC CFP95rate Results

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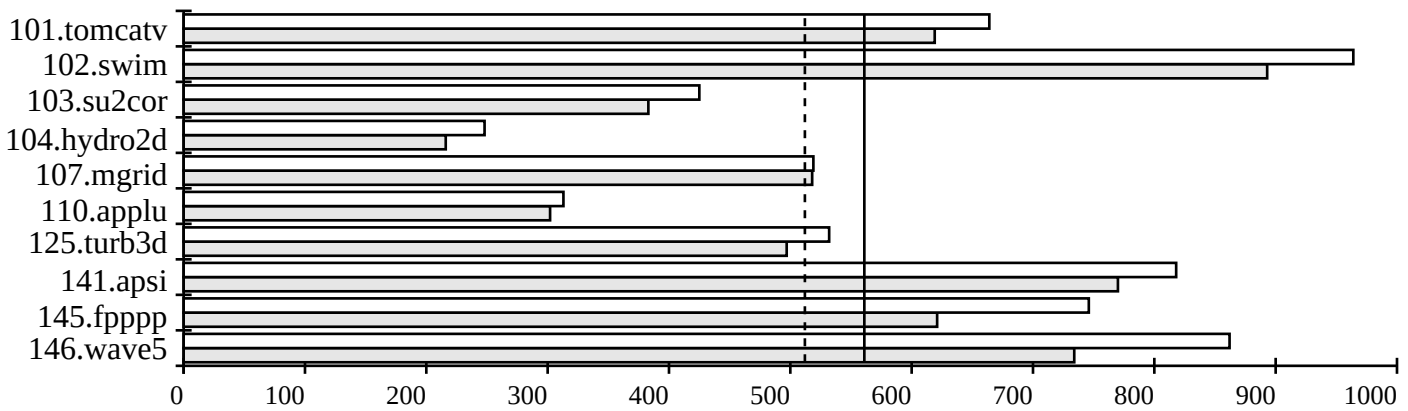
## Sun Microsystems
## Sun Ultra Enterprise 450

| | | |
|---|---|---|
| SPECfp_rate95 | = | 561 |
| SPECfp_rate_base95 | = | 512 |

| SPEC license # 6 | Tested By: Sun, Mountain View | Test Date: Jul-97 | Hardware Avail: Aug-97 | Software Avail: Nov-97 |
|---|---|---|---|---|




Hardware/Software Configuration for:
Sun Ultra Enterprise 450

**Hardware**

| | |
|---|---|
| Model Name: | Sun Ultra Enterprise 450 |
| CPU: | 296MHz UltraSPARC |
| FPU: | Integrated |
| Number of CPU(s): | 4 |
| Primary Cache: | 16KBI+16KBD on chip |
| Secondary Cache: | 2048KB(I+D) off chip |
| Other Cache: | None |
| Memory: | 1024MB |
| Disk Subsystem: | 1 x 4GB |
| Other Hardware: | Ethernet |

**Software**

| | |
|---|---|
| Operating System: | Solaris 2.6 |
| Compiler: | Sun f77 5.0 Alpha |
| File System: | UFS |
| System State: | Single User |
| Kernel Extensions: | |

| Benchmark # and Name | Base Copies | Base Run Time | Base SPEC Ratio | Copies | Run Time | SPEC Ratio |
|---|---|---|---|---|---|---|
| 101.tomcatv | 4 | 215 | 619 | 4 | 200 | 664 |
| 102.swim | 4 | 347 | 893 | 4 | 321 | 964 |
| 103.su2cor | 4 | 132 | 383 | 4 | 119 | 425 |
| 104.hydro2d | 4 | 401 | 216 | 4 | 349 | 248 |
| 107.mgrid | 4 | 174 | 518 | 4 | 173 | 519 |
| 110.applu | 4 | 262 | 302 | 4 | 253 | 313 |
| 125.turb3d | 4 | 297 | 497 | 4 | 277 | 532 |
| 141.apsi | 4 | 98.2 | 770 | 4 | 92 | 818 |
| 145.fpppp | 4 | 557 | 621 | 6 | 694 | 746 |
| 146.wave5 | 4 | 147 | 734 | 4 | 125 | 862 |
| SPECfp_rate_base95 (G. Mean) | | | 512 | | | |
| SPECfp_rate95 (G. Mean) | | | | | | 561 |

## 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
101 cont:
102.swim:    -fast -xarch=v8plusa -xpad=common:15 -xprefetch -fsimple=2
102 cont:
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 ${BMR} -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}
```

Submitted cb, http://wgs-perf.east/Programs/Ultra450/Private/Submit/SPECcpu95/4x300/Rate/CFP95.005.html

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-- Prepared By: --