# SPEC CINT95rate Results

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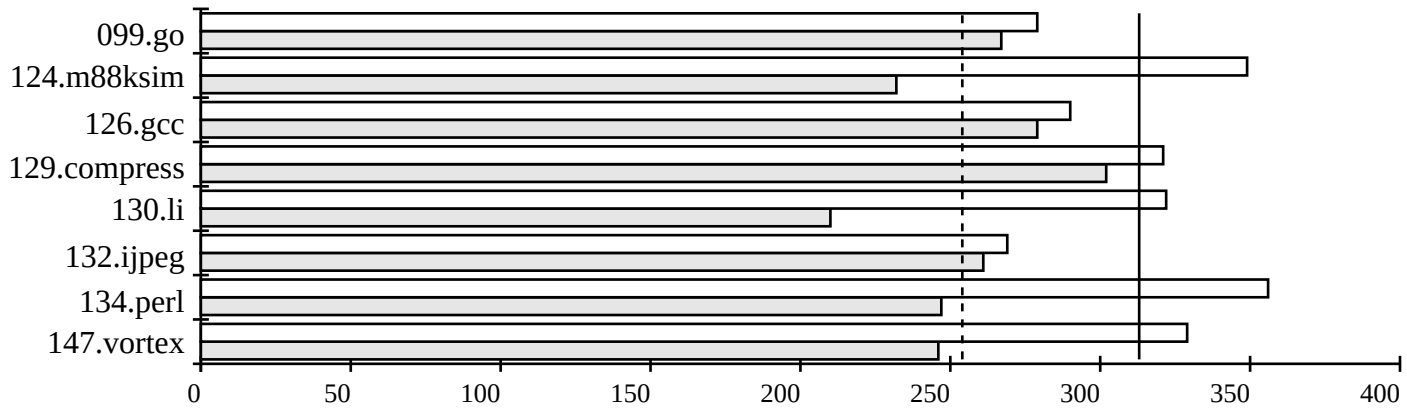
## Sun Microsystems
## Sun Enterprise 450

SPECint_rate95 = 313

SPECint_rate_base95 = 254

| SPEC license # 6 | Tested By: Sun, Palo Alto | Test Date: Oct-98 | Hardware Avail: Nov-98 | Software Avail: Feb-99 |
|---|---|---|---|---|




Hardware/Software Configuration for:
Sun Enterprise 450

**Hardware**

| | |
|---|---|
| Model Name: | Sun Enterprise 450 |
| CPU: | 400 MHz UltraSPARC-II |
| FPU: | Integrated |
| Number of CPU(s): | 2 |
| Primary Cache: | 16KBI+16KBD on chip |
| Secondary Cache: | 4MB (I+D) off chip |
| Other Cache: | None |
| Memory: | 512MB |
| Disk Subsystem: | 2 x 4.2GB |
| Other Hardware: | Fast Ethernet |

**Software**

| | |
|---|---|
| Operating System: | Solaris 7 (kernel/unix) |
| Compiler: | Sun C 5.0 Early Access |
| File System: | UFS |
| System State: | Single User |
| Kernel Extensions: | consistent_coloring=1 |

| Benchmark # and Name | Base Copies | Base Run Time | Base SPEC Ratio | Copies | Run Time | SPEC Ratio |
|---|---|---|---|---|---|---|
| 099.go | 2 | 310 | 267 | 4 | 593 | 279 |
| 124.m88ksim | 2 | 147 | 232 | 2 | 98 | 349 |
| 126.gcc | 2 | 110 | 279 | 4 | 211 | 290 |
| 129.compress | 2 | 107 | 302 | 2 | 101 | 321 |
| 130.li | 2 | 163 | 210 | 2 | 106 | 322 |
| 132.ijpeg | 2 | 165 | 261 | 2 | 161 | 269 |
| 134.perl | 2 | 138 | 247 | 2 | 96 | 356 |
| 147.vortex | 2 | 197 | 246 | 2 | 148 | 329 |
| SPECint_rate_base95 (G. Mean) | | | 254 | | | |
| SPECint_rate95 (G. Mean) | | | | | | 313 |

## Notes/Tuning Information

```
P1= -xprofile=collect:‘pwd‘/../feedback; P2= -xprofile=use:‘pwd‘/../feedback
Baseline: -fast -xO5 -xarch=v8plusa; PASS1= ${P1}; PASS2= ${P2}
CULTRA= -xarch=v8plusa -xchip=ultra; ALIGN = -Wc,-Qiselect-funcalign=32,-Qicache-L1-bsize=4-bbits=7
099.go: -fast -xO4 -xarch=v8plus -xrestrict -xcrossfile -W2,-O4+ansi_alias+bopt
099.go: PASS1= ${P1}; PASS2= ${P2} ${ALIGN} -dn
124.m88ksim: -fast -xO5 -xsafe=mem -xarch=v8plus -xcrossfile -xrestrict -W2,-O4+cond_elim+pde, -ldstr,
124.m88ksim: -Mt8500 -Wc,-Qiselect-sw_pf_tbl_th=20; PASS1= ${P1}; PASS2= ${P2} -dn
126.gcc: -fast -xO4 -xarch=v8plus -W2,-O4+ansi_alias+cond_elim; PASS1= ${P1}; PASS2= ${P2} -dn
129.compress: -fast -xO5 -xsafe=mem -xarch=v8plus -xrestrict -W2,-O4+ansi_alias+pde -Wc -Qms_pipe+unoovf
129.compress: PASS1= ${P1}; PASS2= ${P2} -dn
130.li: -fast -x04 ${CULTRA}; PASS1= -fast -xO4 -xarch=v8plus -xcrossfile ${P1}
130.li: PASS2= -fast -xO5 -xsafe=mem -xarch=v8plus -xcrossfile
130.li: -W2,-O4+ansi_alias+cond_elim+pde,-Mt350,-whole,-crit ${P2} -dn
132.ijpeg: -fast -xO5 -xsafe=mem  -xarch=v8plus -W2,-O4+ansi_alias+cond_elim
132.ijpeg: PASS1= ${P1}; PASS2= ${P2} -dn
134.perl: -fast -xO4 ${CULTRA} -xcrossfile -W2,-Mp1,-ANSI_S,-O4+cond_elim -Wc,-Qiselect-sw_pf_tbl_th=30
134.perl: PASS1= ${P1}; PASS2= ${P2} -dn
147.vortex: -fast -x04 ${CULTRA}; PASS1= -fast -xO4 -xarch=v8plus -xcrossfile ${P1}
147.vortex: PASS2= -fast -xO5 -xsafe=mem -xarch=v8plus -xcrossfile ${P2} -W2,-O4+cond_elim,-Mt500,-Mr6000,-crit -dn
Portability: 124.m88ksim, 132.ijpeg: -DSYSV -Xc, 126.gcc: -Dalloca=__builtin_alloca -Xc
others: -Xc
Shell limits: # ulimit -n 1024  or % limit descriptors 1024; Config file: 2CPU.r.E450_DT.pub.int.fp_2.cfg 98/10/22
```

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