# CINT2000 Result

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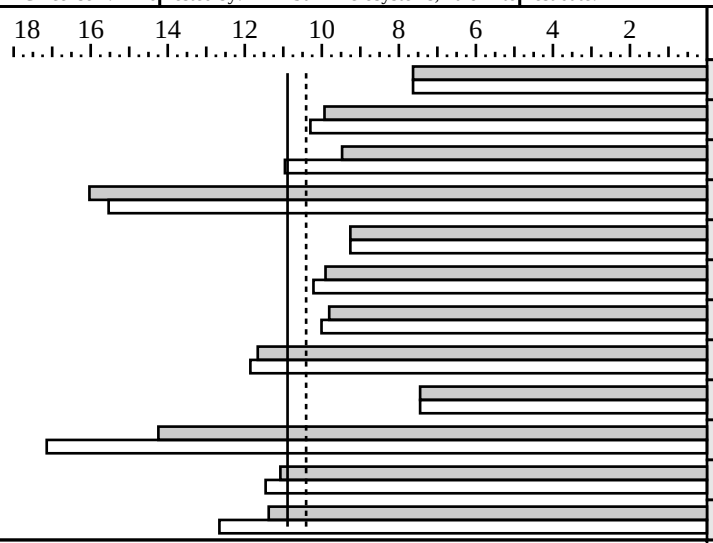
## Sun Microsystems
## Sun Enterprise 450

SPECint_rate2000 = 10.9

SPECint_rate_base2000 = 10.4

SPEC license #: 6 | Tested by: Sun Microsystems, Palo Alto | Test date: Aug-2000 | Hardware Avail: Aug-2000 | Software Avail: Oct-2000




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 164.gzip | 4 | 851 | 7.63 | 4 | 851 | 7.63 |
| 175.vpr | 4 | 654 | 9.93 | 4 | 631 | 10.3 |
| 176.gcc | 4 | 539 | 9.47 | 4 | 466 | 11.0 |
| 181.mcf | 4 | 521 | 16.0 | 4 | 538 | 15.5 |
| 186.crafty | 4 | 501 | 9.26 | 4 | 501 | 9.26 |
| 197.parser | 4 | 843 | 9.90 | 4 | 817 | 10.2 |
| 252.eon | 4 | 615 | 9.81 | 8 | 1205 | 10.0 |
| 253.perlbmk | 4 | 716 | 11.7 | 8 | 1409 | 11.9 |
| 254.gap | 4 | 685 | 7.45 | 4 | 685 | 7.45 |
| 255.vortex | 4 | 619 | 14.2 | 4 | 514 | 17.1 |
| 256.bzip2 | 4 | 628 | 11.1 | 4 | 607 | 11.5 |
| 300.twolf | 4 | 1223 | 11.4 | 4 | 1100 | 12.7 |

### Hardware

| | |
|---|---|
| CPU: | UltraSPARC II |
| CPU MHz: | 480 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 4 chips, 1 core/chip |
| CPU(s) orderable: | 1 to 4 |
| Parallel: | None |
| Primary Cache: | 16KBI+16KBD on chip |
| Secondary Cache: | 8MB(I+D) off chip |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 1024MB |
| Disk Subsystem: | 1*9.1GB(7200 RPM) + 1*4.5GB(7200 RPM) |
| Other Hardware: | |

### Software

| | |
|---|---|
| Operating System: | Solaris 8 |
| Compiler: | Forte Developer 6 update 1 |
| File System: | UFS |
| System State: | single user |

## Notes/Tuning Information

```
Portability: 176.gcc: -Dalloca=__builtin_alloca -DHOST_WORDS_BIG_ENDIAN
Portability: 186.crafty: -DSUN
Portability: 252.eon: -library=iostream,no%Cstd
Portability: 253.perlbmk: -DSPEC_CPU2000_SOLARIS
Portability: 254.gap: -DSYS_IS_USG -DSYS_HAS_TIME_PROTO -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_IOCTL_PROTO

Base C   flags: -fast -xcrossfile -xprofile
Base C++ flags: -fast -xcrossfile -xprofile

Peak flags:
  164.gzip   : -fast -xcrossfile -xprofile
  175.vpr    : -fast -xalias_level=std -xcrossfile -xprofile -dn
  176.gcc    : -fast -xcrossfile -xprofile -dn
  181.mcf    : -fast -xcrossfile -xprofile -dn
  186.crafty : -fast -xcrossfile -xprofile
  197.parser : -fast -xalias_level=std -xcrossfile -xprofile -dn
  252.eon    : -fast -xcrossfile -xprofile -dn
```

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## Notes/Tuning Information (Continued)

```
  253.perlbmk: -fast -xalias_level=std -xcrossfile -xprofile -dn
  254.gap    : -fast -xcrossfile -xprofile
 255.vortex : -fast -xsafe=mem -xcrossfile -W2,-Mt500,-Mr6000,-crit -xalias_level=std -xprofile -dn
 256.bzip2  : -fast -xarch=v8 -W2,-Abopt -xcrossfile -xalias_level=std -Wc,-Qiselect-funcalign=32 -xprofile -dn
  300.twolf  : -fast -xO5 -xarch=v8plus -W2,-whole -xprofile
Proper operation of -xcrossfile requires simultaneous presentation of all source
files to the compiler.  This is accomplished within the SPECcpu2000 suite by
setting ONESTEP = yes.
```