# CINT2000 Result

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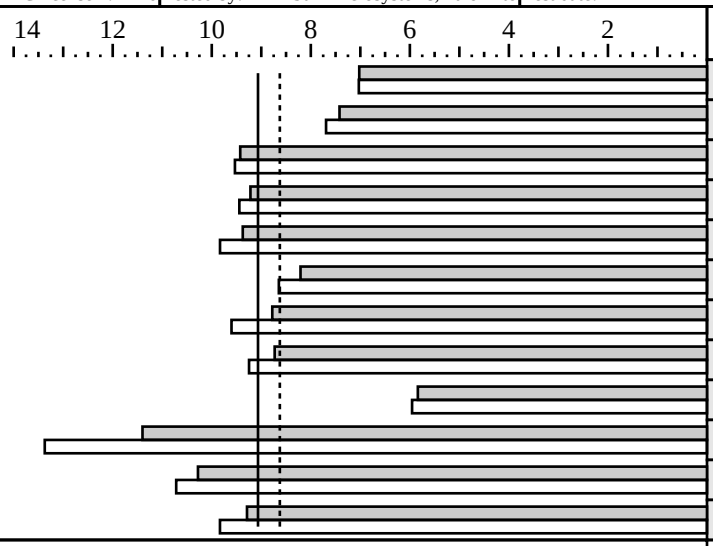
## Sun Microsystems
## Sun Fire 280R

SPECint_rate2000 = 9.07

SPECint_rate_base2000 = 8.63

SPEC license #: 6 | Tested by: Sun Microsystems, Palo Alto | Test date: Jun-2001 | Hardware Avail: Mar-2001 | Software Avail: Jul-2001




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 164.gzip | 2 | 463 | 7.02 | 2 | 462 | 7.03 |
| 175.vpr | 2 | 438 | 7.42 | 2 | 422 | 7.69 |
| 176.gcc | 2 | 271 | 9.43 | 2 | 268 | 9.53 |
| 181.mcf | 2 | 453 | 9.22 | 2 | 442 | 9.44 |
| 186.crafty | 2 | 247 | 9.37 | 2 | 236 | 9.83 |
| 197.parser | 2 | 509 | 8.21 | 2 | 483 | 8.65 |
| 252.eon | 2 | 344 | 8.78 | 2 | 314 | 9.60 |
| 253.perlbmk | 2 | 478 | 8.73 | 2 | 452 | 9.25 |
| 254.gap | 2 | 437 | 5.84 | 2 | 429 | 5.96 |
| 255.vortex | 2 | 387 | 11.4 | 2 | 330 | 13.4 |
| 256.bzip2 | 2 | 339 | 10.3 | 2 | 325 | 10.7 |
| 300.twolf | 2 | 749 | 9.29 | 2 | 708 | 9.83 |

### Hardware

| | |
|---|---|
| CPU: | UltraSPARC-III |
| CPU MHz: | 750 |
| FPU: | Integrated |
| CPU(s) enabled: | 2 cores, 2 chips, 1 core/chip |
| CPU(s) orderable: | 1-2 |
| Parallel: | None |
| Primary Cache: | 32KBI+64KBD on chip |
| Secondary Cache: | 8MB(I+D) off chip |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 4GB |
| Disk Subsystem: | 2 x 36GB |
| Other Hardware: | -- |

### Software

| | |
|---|---|
| Operating System: | Solaris 8 1/01 |
| Compiler: | Forte Developer 6 update 2 |
| File System: | UFS |
| System State: | Single User |

## Notes/Tuning Information

```
Portability:
 176.gcc       : -Dalloca=__builtin_alloca -DHOST_WORDS_BIG_ENDIAN
 186.crafty    : -DSUN
 252.eon       : -library=iostream
 253.perlbmk   : -DSPEC_CPU2000_SOLARIS
 254.gap       : -DSYS_IS_USG -DSYS_HAS_TIME_PROTO -DSYS_HAS_SIGNAL_PROTO
    -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_IOCTL_PROTO

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

Peak Flags:
 164.gzip      : -fast -xalias_level=std -xcrossfile -xprofile
 175.vpr       : -fast -xalias_level=std -xcrossfile -xdepend -xregs=syst -W2,-whole
    -xprofile -lmopt
 176.gcc       : -fast -xcrossfile -W2,-whole -Wc,-Qgsched-trace_late=1,-Qgsched-T4
    -xprofile
 181.mcf       : -fast -xcrossfile -xdepend -Wc,-Qgsched-trace_late=1,-Qgsched-T4
```

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## Notes/Tuning Information (Continued)

```
    -xsafe=mem -xprofile
 186.crafty    : -fast -xcrossfile -Wc,-Qgsched-trace_late=1,-Qgsched-T4
    -xalias_level=strong -xregs=syst -xchip=ultra2 -xprofile
 197.parser    : -fast -xcrossfile -xdepend -xregs=syst
    -Wc,-Qgsched-trace_late=1,-Qgsched-T4
    -xalias_level=strong -xprofile
 252.eon       : -fast -xcrossfile -xsafe=mem -Qoption iropt
    -Mt500,-restrict_g,-restrict -Qoption cg
    -Qgsched-trace_late=1,-Qgsched-T4 -xprofile
 253.perlbmk   : -fast -xcrossfile
    -Wc,-Qgsched-trace_late=1,-Qgsched-T4,-Qgsched-trace_spec_load=1
    -xalias_level=std -xsafe=mem -xprofile
 254.gap       : -fast -xarch=v8 -W2,-crit,-whole -xcrossfile
    -Wc,-Qiselect-funcalign=32 -xalias_level=std -xprofile
 255.vortex    : -fast -xsafe=mem -xcrossfile
    -W2,-Aheap,-reroll=1,-Aunroll,-Ms1,-Mt500,-Mr6000,-crit
    -Wc,-Qdepgraph-early_cross_call=1 -Wc,-Qiselect-funcalign=32
    -Wc,-Qpeep-Sh0 -xrestrict -xdepend -Wc,-Qgsched-trace_late=1,-Qgsched-T4
    -xprofile
 256.bzip2     : -fast -xarch=v8 -W2,-Abopt -xcrossfile -xalias_level=strong
    -Wc,-Qiselect-funcalign=32 -xdepend -xregs=syst -xprofile
 300.twolf     : -fast -xalias_level=std -W2,-whole -xsafe=mem -xprofile

Note:
 ONESTEP=yes for all benchmarks.

System configuration details located (as of Jun 2001)
at http://www.sun.com/servers/workgroup/280r
```