# CINT2000 Result

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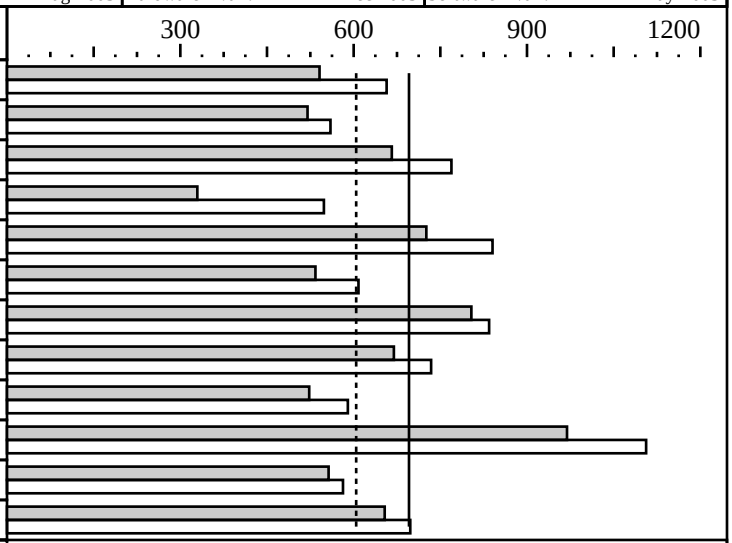
## Sun Microsystems
## Sun Blade 2500 (1.28GHz)

SPECint2000 = 696

SPECint_base2000 = 604

SPEC license #: 6 | Tested by: Sun Microsystems, Santa Clara | Test date: Aug-2003 | Hardware Avail: Dec-2003 | Software Avail: May-2003

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|---|---|---|---|---|---|
| 164.gzip | 1400 | 259 | 541 | 213 | 657 |
| 175.vpr | 1400 | 269 | 520 | 250 | 560 |
| 176.gcc | 1100 | 165 | 666 | 143 | 769 |
| 181.mcf | 1800 | 546 | 329 | 328 | 548 |
| 186.crafty | 1000 | 138 | 726 | 119 | 840 |
| 197.parser | 1800 | 337 | 534 | 296 | 608 |
| 252.eon | 1300 | 162 | 804 | 156 | 834 |
| 253.perlbmk | 1800 | 269 | 670 | 245 | 734 |
| 254.gap | 1100 | 210 | 523 | 186 | 590 |
| 255.vortex | 1900 | 196 | 969 | 172 | 1106 |
| 256.bzip2 | 1500 | 269 | 557 | 258 | 582 |
| 300.twolf | 3000 | 459 | 654 | 430 | 698 |




### Hardware

| | |
|---|---|
| CPU: | UltraSPARC IIIi |
| CPU MHz: | 1280 |
| FPU: | Integrated |
| CPU(s) enabled: | 1 core, 1 chip, 1 core/chip |
| CPU(s) orderable: | 1-2 |
| Parallel: | No |
| Primary Cache: | 32KBI+64KBD on chip |
| Secondary Cache: | 1MB(I+D) on chip |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 4GB (4x1GB DIMM) |
| Disk Subsystem: | 1x36GB 10K RPM SCSI |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | Solaris 8 HW 5/03 |
| Compiler: | Sun ONE Studio 8<br>Sun Performance Library 8 |
| File System: | ufs with ufs logging |
| System State: | Multi-User |

## Notes/Tuning Information

```
Compiler invocation:
  C: cc
  CXX: CC

Integer base flags:
     -fast -xipo=2 with ONESTEP=yes and feedback

Integer peak flags:
 ONESTEP=yes and feedback for all benchmarks

 164.gzip:    -xO5 -xbuiltin=%all -xtarget=native -xalias_level=std
              -xipo=2 -Wc,-Qeps:enabled=1,-Qeps:rp_filtering_margin=100
 175.vpr:     -fast -xalias_level=std -xipo=2
              -Wc,-Qeps:enabled=1,-Qeps:rp_filtering_margin=100 -lmopt -lm
 176.gcc:     -fast -xipo=2 -ll2amm
 181.mcf:     -fast -xipo=2 -xprefetch_level=3 -Wc,-Qeps:enabled=1
              -W2,-Apf:llist=3:noinnerllist
 186.crafty:  -fast -xinline= -xipo=2 -xalias_level=strong -W2,-Ashort_ldst
              Feedback adds -xlinkopt in PASS2
 197.parser:  -fast -xipo=2 -xalias_level=strong
```

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## Notes/Tuning Information (Continued)

```
                -Wc,-Qgsched-T6,-Qipa:valueprediction
 252.eon:       -fast -xipo=2 -xalias_level=compatible -noex
                -Qoption cg -Qeps:enabled=1,-Qeps:ws=32
 253.perlbmk: -xO5 -xtarget=native -xipo -xalias_level=std -xsafe=mem
                -Wc,-Qeps:enabled=1,-Qeps:ws=8,-Qiselect-sw_pf_tbl_th=20,
                -Qiselect-funcalign=32,-Qicache-chbab=1
 254.gap:       -fast -xipo=2 -xalias_level=strong -xvector
                -xprefetch_level=3 -W2,-Abcopy
 255.vortex:    -fast -xrestrict -xipo=2
                -W2,-crit,-Ainline:recursion=1:cs=500:irs=6000
                -Wc,-Qeps:enabled=1,-Qdepgraph-early_cross_call=1,
                -Qiselect-funcalign=32,-Qpeep-Sh0 -ll2amm
 256.bzip2:     -fast -xipo -xalias_level=strong -xrestrict
                -Wc,-Qeps:enabled=1
 300.twolf:     -fast -xalias_level=strong -xsafe=mem -xipo=2
                -xprefetch=no%auto -Wc,-Qms_pipe+intdivusefp

Feedback is done as follows, unless otherwise noted:
 fdo_pre0:  rm -rf ./feedback.profile ./SunWS_cache
 PASS1:     -xprofile=collect:./feedback
 PASS2:     -xprofile=use:./feedback

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

Shell Environments:
  Stack size set to unlimited via "ulimit -s unlimited"

Kernel Parameters (/etc/system):
 autoup=900
 tune_t_fsflushr=1

System Settings:
 2nd cpu physically removed from system
```