



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Sun Microsystems
Sun Blade 1500 (1.062GHz)

SPECint2000 = 589
SPECint_base2000 = 513

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

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio | |
|-------------|----------------|--------------|------------|---------|-------|--|
| 164.gzip | 1400 | 312 | 449 | 256 | 547 | |
| 175.vpr | 1400 | 315 | 444 | 292 | 479 | |
| 176.gcc | 1100 | 192 | 572 | 170 | 647 | |
| 181.mcf | 1800 | 605 | 297 | 367 | 491 | |
| 186.crafty | 1000 | 166 | 603 | 143 | 699 | |
| 197.parser | 1800 | 398 | 452 | 348 | 517 | |
| 252.eon | 1300 | 195 | 667 | 188 | 693 | |
| 253.perlbnk | 1800 | 322 | 559 | 293 | 614 | |
| 254.gap | 1100 | 247 | 445 | 221 | 497 | |
| 255.vortex | 1900 | 232 | 818 | 203 | 938 | |
| 256.bzip2 | 1500 | 314 | 478 | 300 | 500 | |
| 300.twolf | 3000 | 544 | 552 | 511 | 587 | |

Hardware

CPU: UltraSPARC IIIi
CPU MHz: 1062
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1
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: 1 x 80GB IDE
Other Hardware: None

Software

Operating System: Solaris 8 HW 5/03
Compiler: Sun ONE Studio 8
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 -l12amm
181.mcf: -fast -xipo=2 -xprefetch_level=3 -Wc,-Qeps:enabled=1
-W2,-Apf:l1list=3:noinnerl1list
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



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Sun Microsystems
Sun Blade 1500 (1.062GHz)

SPECint2000 = 589
SPECint_base2000 = 513

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

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.perlbnk: -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.perlbnk: -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

```