CINT2000 Result

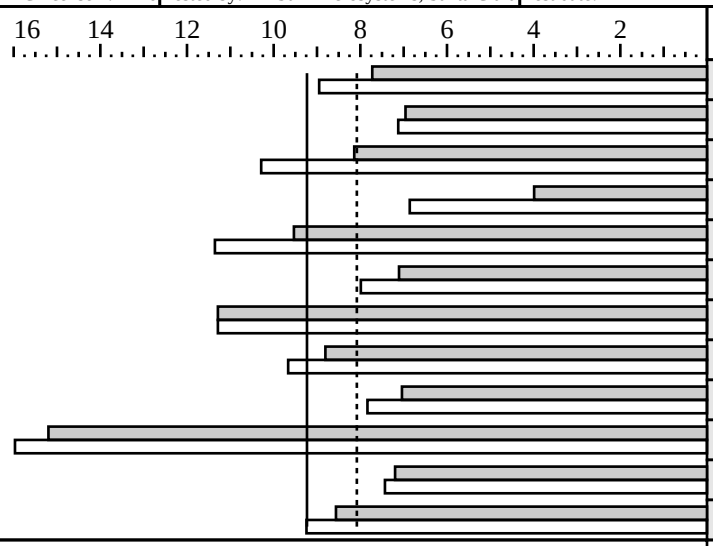
Copyright ©1999-2004, Standard Performance Evaluation Corporation

Sun Microsystems
Sun Blade 1500 (1.5GHz)

SPECint_rate2000 = 9.23

SPECint_rate_base2000 = 8.08

SPEC license #: 6 | Tested by: Sun Microsystems, Santa Clara | Test date: Dec-2004 | Hardware Avail: Feb-2005 | Software Avail: Jan-2005



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	210	7.72	1	181	8.95
175.vpr	1	233	6.96	1	228	7.13
176.gcc	1	157	8.14	1	124	10.3
181.mcf	1	523	3.99	1	304	6.86
186.crafty	1	122	9.53	1	102	11.4
197.parser	1	294	7.11	1	261	7.99
252.eon	1	134	11.3	1	134	11.3
253.perlbmk	1	237	8.81	1	216	9.67
254.gap	1	181	7.04	1	163	7.84
255.vortex	1	145	15.2	1	138	16.0
256.bzip2	1	242	7.20	1	234	7.43
300.twolf	1	406	8.56	1	377	9.24

Hardware

CPU:	UltraSPARC IIIi
CPU MHz:	1503
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) off chip
L3 Cache:	None
Other Cache:	None
Memory:	4GB (4x1GB DIMM)
Disk Subsystem:	1 x 120GB IDE
Other Hardware:	None

Software

Operating System:	Solaris 10
Compiler:	Sun Studio 9
File System:	ufs
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:   -xO4  -xbuiltin=%all -xtarget=native -xalias_level=std
            -xipo=2 -Wc,-Qeps:enabled=1,-Qeps:rp_filtering_margin=30, -Qeps:do_spec_load=1
 175.vpr:     -fast -xalias_level=std -xipo=2
            -Wc,-Qeps:enabled=1,-Qeps:rp_filtering_margin=100,-Qeps:do_spec_load=1 -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
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Notes/Tuning Information (Continued)

```
                -Wc,-Qgsched-T6,-Qipa:valueprediction
 252.eon:       basepeak=yes
 253.perlbmk:   -xO5 -xtarget=native  -xmemalign=4s -xipo -Wc,-Qeps:enabled=1
                -Qeps:ws=8, -xalias_level=std -xsafe=mem -Wc,-Qiselect-funcalign=32,
               -Qicache-chbab=1 -Wc,-Qiselect-sw_pf_tbl_th=20,-Qeps:do_spec_load=1 -xprefetch=no
 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 -xsafe=mem -Qeps:rp_filtering_margin=99
 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
                srcalt = fmax_errno
 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"
  MPSSHEAP=512K
  MPSSSTACK=512K
  LD_PRELOAD=mpss.so.1

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