



CINT2000 Result

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Sun Microsystems
Sun Blade 1500 (1.062GHz)

SPECint_rate2000 = 6.83
SPECint_rate_base2000 = 5.95

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	1	312	5.21	1	256	6.34
175.vpr	1	315	5.15	1	292	5.55
176.gcc	1	192	6.64	1	170	7.51
181.mcf	1	605	3.45	1	367	5.70
186.crafty	1	166	6.99	1	143	8.10
197.parser	1	398	5.24	1	348	5.99
252.eon	1	195	7.74	1	188	8.04
253.perlbnk	1	322	6.49	1	293	7.12
254.gap	1	247	5.16	1	221	5.77
255.vortex	1	232	9.49	1	203	10.9
256.bzip2	1	314	5.54	1	300	5.80
300.twolf	1	544	6.40	1	511	6.81

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.zip: -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



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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.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

```