



CINT2000 Result

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Sun Microsystems Sun Blade X8400

SPECint_rate2000 = 156
SPECint_rate_base2000 = 138

SPEC license #: 6 | Tested by: Sun Microsystems, Santa Clara | Test date: Jun-2006 | Hardware Avail: Jul-2006 | Software Avail: Apr-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	89.5	145	8	89.2	146
175.vpr	8	123	105	8	116	112
176.gcc	8	65.9	155	8	66.7	153
181.mcf	8	360	46.3	8	209	79.8
186.crafty	8	43.3	214	8	42.2	220
197.parser	8	161	104	8	124	135
252.eon	8	48.9	247	8	41.7	289
253.perlbnk	8	104	161	8	93.3	179
254.gap	8	72.8	140	8	71.9	142
255.vortex	8	77.9	226	8	72.7	242
256.bzip2	8	110	126	8	110	126
300.twolf	8	233	120	8	178	157

Hardware

CPU: AMD Opteron (TM) 885
CPU MHz: 2600
FPU: Integrated
CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip
CPU(s) orderable: 4 (order by # of chips)
Parallel: No
Primary Cache: 64KBI + 64KBD (on chip) per core
Secondary Cache: 1024KB (I+D) (on chip) per core
L3 Cache: N/A
Other Cache: N/A
Memory: 32GB (16x2GB, PC3200 CL3 DDR ECC Regd. SDRAM)
Disk Subsystem: SAS,73GB,10K RPM
Other Hardware: None

Software

Operating System: SUSE LINUX Enterprise Server 9 SP3 (x86_64)
Compiler: PathScale EKOPath(TM) Compiler Suite, Version 2.4
File System: ufs
System State: Multi-user

Notes/Tuning Information

Portability flags:

186.crafty: -DLINUX_i386
252.eon: -DHAS_ERRLIST -DSPEC_CPU2000_LP64
253.perlbnk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL
-DSPEC_CPU2000_GLIBC22 -DSPEC_CPU2000_LP64
254.gap: -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO
-DSYS_HAS_CALLOC_PROTO -DSPEC_CPU2000_LP64
255.vortex: -DSPEC_CPU2000_LP64

Feedback Optimization:

+FDO: PASS1= -fb_create fbdata PASS2= -fb_opt fbdata

Baseline Optimization Flags:

C programs: -Ofast +FDO
C++ programs: -Ofast +FDO

Peak Tuning Flags:

164.gzip: -O3 -ipa -WOPT:val=0 -OPT:unroll_size=0 +FDO
175.vpr: -O3 -ipa -m32 +FDO
176.gcc: -O3 -IPA:plimit=10000 -LNO:opt=0 -OPT:goto=off +FDO



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Notes/Tuning Information (Continued)

```
181.mcf: -O3 -ipa -IPA:field_reorder=on -m32 +FDO
186.crafty: -Ofast -CG:local_fwd_sched=on -LNO:opt=0 -WOPT:val=0 +FDO
197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO
252.eon: -Ofast -CG:gcm=off:p2align_freq=1:prefetch=off -IPA:plimit=4000
        -OPT:treeheight=on -TENV:X=4:frame_pointer=off -fno-exceptions
        -LNO:fu=10:full_unroll_outer=on -GRA:optimize_boundary=on +FDO
253.perlbnk: -O2 -ipa -OPT:Ofast:transform_to_memlib=off
        -fno-math-errno -IPA:plimit=10000 +FDO
254.gap: -Ofast -IPA:min_hotness=5 -OPT:alias=disjoint -CG:movnti=1 +FDO
255.vortex: -Ofast -OPT:goto=off +FDO
256.bzip2: basepeak = true
300.twolf: -O2 -CG:gcm=off:p2align_freq=100000
        -OPT:Ofast:unroll_times_max=8:unroll_size=256:alias=disjoint
        -WOPT:mem_opnds=on -m32 +FDO
```

Default BIOS settings was used.