CINT2000 Result
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IBM eServer 326m, 2.6 GHz AMD Opteron(tm) Processor 252

SPEClicense #: 11
Tested by: IBM Corporation
Test date: Nov-2005
Hardware Avail: Nov-2005
Software Avail: Nov-2005

Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio
--- | --- | --- | --- | --- | ---
164.gzip | 1400 | 88.9 | 1574 | 89.1 | 1571
175.vpr | 1400 | 111 | 1260 | 107 | 1311
176.gcc | 1100 | 62.3 | 1766 | 61.6 | 1785
181.mcf | 1800 | 347 | 519 | 155 | 1158
186.crafty | 1000 | 43.4 | 2305 | 42.5 | 2355
197.parser | 1800 | 150 | 1204 | 123 | 1458
252.eon | 1300 | 49.1 | 2650 | 41.3 | 3149
253.perlbmk | 1800 | 105 | 1720 | 90.9 | 1980
254.gap | 1100 | 65.5 | 1680 | 63.1 | 1743
255.vortex | 1900 | 75.6 | 2513 | 67.4 | 2818
256.bzip2 | 1500 | 102 | 1464 | 102 | 1464
300.twolf | 3000 | 210 | 1428 | 162 | 1854

SPECint2000 = 1807
SPECint_base2000 = 1557

Notes/Tuning Information

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+FDO: PASS1= -fb_create fbdata PASS2= -fb_opt fbdata
Base tuning for C programs: -Ofast +FDO
Base tuning for C++ programs: -Ofast +FDO
Portability flags:
186.crafty: -DLINUX_i386
252.eon: -DHAS_ERRLIST -DSPEC_CPU2000_LP64
-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
Peak tuning:
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
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:gcmm=off:p2align_freq=1:prefetch=off -IPA:plimit=4000

Hardware

CPU: AMD Opteron(tm) Processor 252
CPU MHz: 2600
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
CPU(s) orderable: 1,2
Parallel: No
Primary Cache: 64KBI + 64KBD on chip
Secondary Cache: 1024KB (I+D) on chip
L3 Cache: N/A
Other Cache: N/A
Memory: 8 x 1024GB PC3200
Disk Subsystem: SCSI, 36GB 15K RPM
Other Hardware: None

Software

Operating System: SuSE Linux 9.0 SP2 SLES 64-bit Kernel 2.6.5-7.191-smp (SP2)
Compiler: PathScale EKO Compiler Suite, Release 2.2.1
File System: Linux/reiserfs
System State: Multi-user, run level 3
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Notes/Tuning Information (Continued)

-OPT:treeheight=on -TENV:X=4:frame_pointer=off -fno-exception
-LNO:fu=10:full_unroll_outer=on -GRA:optimize_boundary=on +FDO

253.perlbmk: -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

BIOS Configuration Notes
Node Interleaving Disabled
Other Configuration Notes
Taskset utility used to bind process to CPU(s)