



CINT2000 Result

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IBM

IBM eServer 326m, 2.6 GHz Dual Core AMD Opteron(tm) Processor 285

SPECint_rate2000 = 79.1

SPECint_rate_base2000 = 70.0

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Mar-2006 | Hardware Avail: Apr-2006 | Software Avail: Feb-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	89.7	72.4	4	89.7	72.4
175.vpr	4	120	53.9	4	113	57.3
176.gcc	4	65.6	77.8	4	66.1	77.2
181.mcf	4	346	24.2	4	208	40.1
186.crafty	4	43.5	107	4	42.2	110
197.parser	4	160	52.2	4	123	68.0
252.eon	4	49.4	122	4	41.7	144
253.perlbnk	4	103	80.9	4	93.1	89.7
254.gap	4	70.8	72.1	4	71.2	71.7
255.vortex	4	74.7	118	4	69.8	126
256.bzip2	4	108	64.3	4	108	64.3
300.twolf	4	224	62.2	4	169	82.4

Hardware

CPU: AMD Opteron(tm) Processor 285
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/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 1024MB, 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 2.3
 AMD Core Math Library 3.0.0
 File System: Linux/reiserfs
 System State: Multi-user, run level 3

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

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

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:gcm=off:p2align_freq=1:prefetch=off -IPA:plimit=4000

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http://www.spec.org



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Notes/Tuning Information (Continued)

```
-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
```

BIOS Configuration Notes

Node Interleaving is Disabled

Other Configuration Notes

Taskset utility used to bind process to CPU(s)