



CINT2000 Result

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IBM

IBM eServer 326m, 2.2 GHz Dual Core AMD Opteron(tm) Processor 275

SPECint2000 = 1573

SPECint_base2000 = 1389

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Nov-2005 | Hardware Avail: Oct-2005 | Software Avail: Nov-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	105	1338	105	1336	
175.vpr	1400	124	1125	120	1163	
176.gcc	1100	72.5	1517	72.0	1528	
181.mcf	1800	271	663	164	1096	
186.crafty	1000	51.0	1960	50.0	1999	
197.parser	1800	179	1006	143	1258	
252.eon	1300	57.9	2247	48.6	2674	
253.perlbmk	1800	122	1476	106	1699	
254.gap	1100	75.4	1460	72.5	1517	
255.vortex	1900	86.6	2193	77.2	2460	
256.bzip2	1500	117	1278	117	1278	
300.twolf	3000	236	1273	186	1616	

Hardware

CPU: Dual Core AMD Opteron(tm) Processor 275
 CPU MHz: 2200
 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) per core
 Secondary Cache: 1024KB (I+D) (on chip) per core
 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

Notes/Tuning Information

Tested by IBM Corporation

+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.perlbmk: -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)

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- OPT:treeheight=on - TENV:X=4:frame_pointer=off - fno-exception
- 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 Disabled

Other Configuration Notes

Taskset utility used to bind process to CPU(s)