



CINT2000 Result

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IBM

IBM eServer e326 (AMD Opteron (TM) 275)

SPECint_rate2000 = 64.0

SPECint_rate_base2000 = 57.3

SPEC license #: 11 | Tested by: IBM, Inc. | Test date: May-2005 | Hardware Avail: May-2005 | Software Avail: Apr-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	106	61.4	4	106	61.4
175.vpr	4	159	40.8	4	155	41.9
176.gcc	4	75.8	67.3	4	74.7	68.3
181.mcf	4	436	19.2	4	261	32.0
186.crafty	4	53.4	86.8	4	54.1	85.8
197.parser	4	187	44.7	4	149	55.9
252.eon	4	63.7	94.7	4	55.7	108
253.perlbnk	4	126	66.5	4	111	75.1
254.gap	4	83.4	61.2	4	81.5	62.6
255.vortex	4	97.0	90.8	4	91.4	96.5
256.bzip2	4	136	51.1	4	136	51.1
300.twolf	4	250	55.7	4	200	69.6

Hardware

CPU: AMD Opteron 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 1024 MB PC3200
 Disk Subsystem: SCSI, 36GB 10K RPM
 Other Hardware: None

Software

Operating System: SuSE Linux 9.0 SP1 SLES 64 bit Kernel 2.6.5-7.151-smp
 Compiler: PathScale EKOPath(TM) Compiler Suite, Release 2.1
 File System: Linux/reiserfs
 System State: Multi-user, run level 3

Notes/Tuning Information

Tested by IBM, Inc.

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

Baseline optimization flags:

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

Portability Flags:

176.gcc: srcalt 64bitgcc
 186.crafty: -DLINUX_i386
 252.eon: -DHAS_ERRLIST -DSPEC_CPU2000_LP64 srcalt fmax_errno
 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_SIGNAL_PROTO -DSYS_HAS_ANSI -DSYS_HAS_CALLOC_PROTO
 -DSPEC_CPU2000_LP64
 255.vortex: -DSPEC_CPU2000_LP64 srcalt closed_files

Peak Tuning:



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Notes/Tuning Information (Continued)

```
164.gzip: basepeak = true
175.vpr: -O2 -ipa -OPT:alias=disjoint -CG:p2align_freq=500000
        -INLINE:aggressive=on -IPA:plimit=10000:callee_limit=5000
        +FDO
176.gcc: -O3 -ipa -OPT:goto=off +FDO
181.mcf: -O3 -ipa -IPA:field_reorder=on -m32 +FDO
186.crafty: -O3 -OPT:goto=off +FDO
197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO
252.eon: -Ofast -CG:gcm=off:p2align_freq=1:prefetch=off -OPT:treeheight=on
        -TENV:X=4:frame_pointer=off -fno-exceptions
        -LNO:fu=10:full_unroll_outer=on -IPA:plimit=4000 +FDO
253.perlbnk: -O2 -ipa -OPT:Ofast:transform_to_memlib=off
        -fno-math-errno -IPA:plimit=10000 +FDO
254.gap: -Ofast -WOPT:aggstr=off +FDO
255.vortex: -Ofast -OPT:goto=off -IPA:plimit=1800 -CG:p2align=on
        +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
```