



CINT2000 Result

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IBM Corporation
IBM System X 3455 (AMD Opteron (TM) 2218)

SPECint_rate2000 = **81.0**
SPECint_rate_base2000 = **72.2**

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	89.0	73.0	4	88.9	73.0
175.vpr	4	115	56.3	4	111	58.8
176.gcc	4	62.4	81.7	4	62.0	82.3
181.mcf	4	293	28.5	4	175	47.7
186.crafty	4	44.6	104	4	44.5	104
197.parser	4	151	55.2	4	121	69.3
252.eon	4	47.3	128	4	42.4	142
253.perlbnk	4	107	78.3	4	93.2	89.6
254.gap	4	68.1	75.0	4	68.1	75.0
255.vortex	4	76.4	115	4	70.9	124
256.bzip2	4	105	66.4	4	105	66.4
300.twolf	4	221	63.1	4	168	82.7

Hardware	Software
CPU: AMD Opteron 2218 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) per core Secondary Cache: 1024KB (I+D) (on chip) per core L3 Cache: N/A Other Cache: N/A Memory: 8x2GB, PC2-5300 Disk Subsystem: SATA, 80GB 10K RPM Other Hardware: None	Operating System: SuSE Linux 9.0 SP3 SLES 64 bit Kernel 2.6.5-7.244-smp Compiler: PathScale EKO Compiler Suite, Release 2.4 PathScale EKOPATH(TM) Compiler Suite, Release 2.4 File System: Linux/reiserfs System State: Multi-user, run level 3

Notes/Tuning Information

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

Baseline optimization flags:

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

Portability Flags:

186.crafty: -DLINUX_i386
252.eon: -DHAS_ERRLIST
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



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Notes/Tuning Information (Continued)

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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.perlbmk: -O2 -ipa -OPT:Ofast:transform_to_memlib=off
        -fno-math-errno -IPA:plimit=10000 +FDO
254.gap: basepeak = true
255.vortex: -Ofast -OPT:goto=off -CG:p2align=on
        -GRA:optimize_boundary=on -IPA:min_hotness=120 +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
```