



CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

IBM Corporation
IBM System X 3655 (AMD Opteron (TM) 2210)

SPECint_rate2000 = 29.8
SPECint_rate_base2000 = 26.9

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	127	25.5	2	127	25.5
175.vpr	2	150	21.7	2	146	22.2
176.gcc	2	85.5	29.9	2	84.9	30.1
181.mcf	2	321	13.0	2	200	20.8
186.crafty	2	64.1	36.2	2	64.1	36.2
197.parser	2	204	20.5	2	166	25.1
252.eon	2	68.2	44.3	2	61.2	49.3
253.perlbnk	2	148	28.3	2	130	32.2
254.gap	2	91.8	27.8	2	91.8	27.8
255.vortex	2	104	42.6	2	96.0	45.9
256.bzip2	2	140	24.9	2	140	24.9
300.twolf	2	289	24.1	2	230	30.2

Hardware	Software
CPU: AMD Opteron 2210 CPU MHz: 1800 FPU: Integrated CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip CPU(s) orderable: 1,2 chips 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: SAS, 73GB 15K 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



CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

IBM Corporation
IBM System X 3655 (AMD Opteron (TM) 2210)

SPECint_rate2000 = 29.8
SPECint_rate_base2000 = 26.9

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

Notes/Tuning Information (Continued)

```
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
```