CINT2000 Result

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IBM

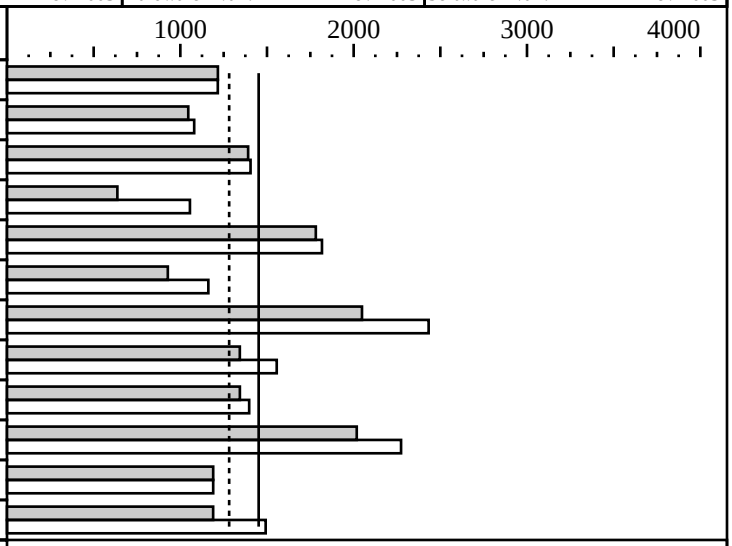
IBM eServer 326m, 2.0 GHz Dual Core AMD Opteron(tm) Processor 270

SPECint2000 = 1452

SPECint_base2000 = 1282

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	115	1217	115	1216
175.vpr	1400	134	1046	130	1080
176.gcc	1100	79.1	1391	78.3	1405
181.mcf	1800	283	637	171	1055
186.crafty	1000	56.1	1782	55.0	1817
197.parser	1800	194	928	155	1162
252.eon	1300	63.5	2048	53.4	2432
253.perlbmk	1800	134	1343	116	1556
254.gap	1100	81.9	1343	78.7	1397
255.vortex	1900	94.2	2018	83.6	2273
256.bzip2	1500	126	1190	126	1190
300.twolf	3000	252	1189	201	1492



Hardware

CPU:	AMD Opteron(tm) Processor 270
CPU MHz:	2000
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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Notes/Tuning Information (Continued)

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