CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

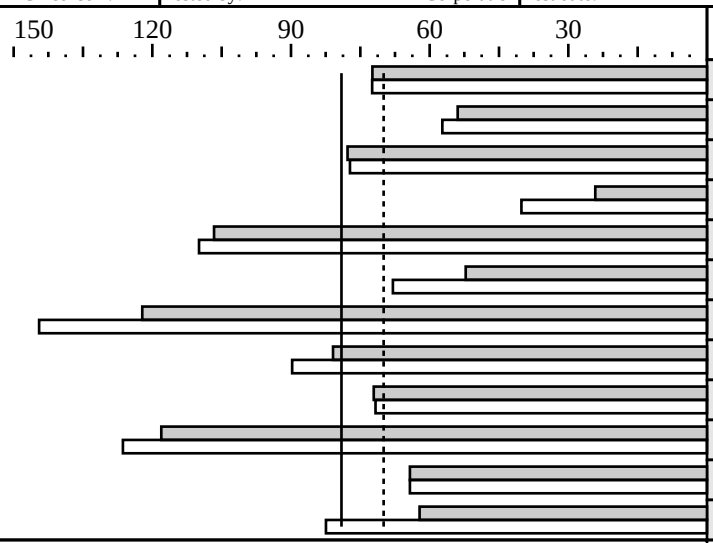
IBM

IBM eServer 326m, 2.6 GHz Dual Core AMD Opteron(tm) Processor 285

SPECint_rate2000 = 79.1

SPECint_rate_base2000 = 70.0

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	89.7	72.4	4	89.7	72.4
175.vpr	4	120	53.9	4	113	57.3
176.gcc	4	65.6	77.8	4	66.1	77.2
181.mcf	4	346	24.2	4	208	40.1
186.crafty	4	43.5	107	4	42.2	110
197.parser	4	160	52.2	4	123	68.0
252.eon	4	49.4	122	4	41.7	144
253.perlbmk	4	103	80.9	4	93.1	89.7
254.gap	4	70.8	72.1	4	71.2	71.7
255.vortex	4	74.7	118	4	69.8	126
256.bzip2	4	108	64.3	4	108	64.3
300.twolf	4	224	62.2	4	169	82.4

Hardware

CPU:	AMD Opteron(tm) Processor 285
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
Secondary Cache:	1024KB (I+D) on chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	8 x 1024MB, 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 2.3 AMD Core Math Library 3.0.0
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
```

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Notes/Tuning Information (Continued)

```
                -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:    -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 is Disabled
Other Configuration Notes
   Taskset utility used to bind process to CPU(s)
```