



CINT2000 Result

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Rackable Systems
C1000-A01-25E26 (AMD Opteron 285)

SPECint2000 = 1748
SPECint_base2000 = 1562

SPEC license #: 64 Tested by: Rackable Systems Test date: Sep-2006 Hardware Avail: Aug-2006 Software Avail: Mar-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	88.8	1577	88.7	1579	
175.vpr	1400	115	1212	110	1267	
176.gcc	1100	63.2	1741	62.7	1755	
181.mcf	1800	294	613	172	1045	
186.crafty	1000	44.2	2262	44.2	2265	
197.parser	1800	153	1174	121	1488	
252.eon	1300	47.1	2759	42.6	3055	
253.perlbnk	1800	102	1760	93.2	1932	
254.gap	1100	66.2	1661	66.7	1649	
255.vortex	1900	75.9	2504	72.7	2612	
256.bzip2	1500	105	1426	105	1426	
300.twolf	3000	221	1358	165	1815	

Hardware

CPU: AMD Opteron 285
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 chip(s)
 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: 4x1024MB, DDR2 5300
 Disk Subsystem: 1 x 250GB SATA
 Other Hardware: None

Software

Operating System: Red Hat Enterprise Linux 4 Update 2 x86_64
 Compiler: PathScale EKOPath(TM) Compiler Suite, Release 2.4 (for C and C++)
 File System: Linux/ext3
 System State: Multi-user, run level 3

Notes/Tuning Information

Portability flags:

```
186.crafty: -DLINUX_i386
252.eon: -DHAS_ERRLIST -DSPEC_CPU2000_LP64
253.perlbnk: -DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL -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
```

Feedback Optimization:

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

Baseline Optimization Flags:

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

Peak Tuning Flags:

```
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)

```
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.perlbnk: -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
Taskset utility used to bind process to CPU(s)
```