



CINT2000 Result

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Rackable Systems
C1000-A03-25F26 (AMD Opteron 2218)

SPECint2000 = 1762
SPECint_base2000 = 1581

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	1000 2000 3000 4000			
164.gzip	1400	88.4	1583	88.3	1585				
175.vpr	1400	116	1208	110	1274				
176.gcc	1100	62.0	1775	61.1	1799				
181.mcf	1800	263	684	159	1131				
186.crafty	1000	44.3	2259	44.3	2259				
197.parser	1800	151	1191	120	1494				
252.eon	1300	47.1	2760	42.6	3054				
253.perlbnk	1800	102	1764	93.1	1933				
254.gap	1100	64.8	1697	65.1	1691				
255.vortex	1900	76.6	2480	73.1	2598				
256.bzip2	1500	106	1420	106	1420				
300.twolf	3000	223	1347	171	1756				

Hardware

CPU: AMD Opteron 2218
 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)

```