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

**SPECint_rate2000** = 78.0  
**SPECint_rate_base2000** = 70.7

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Base Copies</th>
<th>Base Runtime</th>
<th>Base Ratio</th>
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</table>

### 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  
  - 254.gap: -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO  
  - -DSYS_HAS_MALLOC_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.zip: -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.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

Taskset utility used to bind process to CPU(s)