CINT2000 Result

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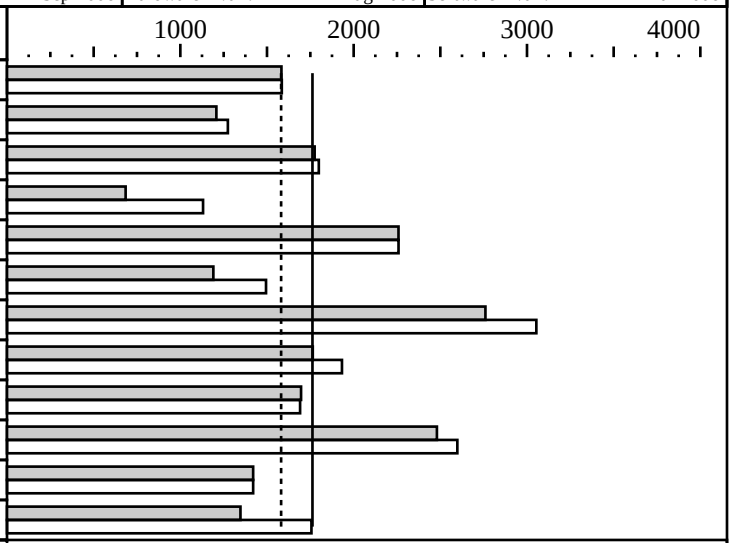
Rackable Systems
C1000-A03-25F26 (AMD Opteron 2218)

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
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.perlbmk	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.perlbmk: -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.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)
```