



CINT2000 Result

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Fujitsu Siemens Computers
CELSIUS V830, Opteron (TM) 256, Linux 64-bit

SPECint_rate2000 = 47.8
SPECint_rate_base2000 = 42.7

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Jul-2006 | Hardware Avail: Mar-2006 | Software Avail: Dec-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	76.9	42.3	2	76.7	42.3
175.vpr	2	98.2	33.1	2	94.7	34.3
176.gcc	2	53.9	47.3	2	54.3	47.0
181.mcf	2	229	18.2	2	144	29.0
186.crafty	2	37.3	62.2	2	36.3	63.9
197.parser	2	132	31.6	2	104	40.2
252.eon	2	41.8	72.2	2	35.8	84.2
253.perlbnk	2	88.5	47.2	2	79.2	52.7
254.gap	2	56.2	45.4	2	55.5	46.0
255.vortex	2	63.7	69.2	2	59.7	73.9
256.bzip2	2	90.8	38.3	2	90.8	38.3
300.twolf	2	187	37.3	2	143	48.7

Hardware

CPU: AMD Opteron 256
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/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 512 MB PC3200 CL3-3-3 DDR SDRAM
 Disk Subsystem: SCSI U320
 Other Hardware: None

Software

Operating System: SLES 9 with SP3 (AMD64) - kernel 2.6.5-7.244-smp
 Compiler: PathScale EKOPath(TM) Compiler Suite, Release 2.3 (for C and C++)
 File System: Linux/ReiserFS
 System State: Multi-User SuSE 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_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
```

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
```



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Notes/Tuning Information (Continued)

```
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
-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
```

BIOS default settings with
Node memory interleave disabled, SRAT enabled
taskset has been used to bind processes to CPUs

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