



CINT2000 Result

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Fujitsu Siemens Computers
CELSIUS V810, Opteron (TM) 250, Linux 64-bit

SPECint_rate2000 = 18.8
SPECint_rate_base2000 = 16.8

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Nov-2004 | Hardware Avail: Aug-2004 | Software Avail: Oct-2004

35 30 25 20 15 10 5					Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
					164.gzip	1	98.7	16.4	1	98.5	16.5
					175.vpr	1	120	13.6	1	116	14.0
					176.gcc	1	69.0	18.5	1	69.0	18.5
					181.mcf	1	244	8.54	1	151	13.8
					186.crafty	1	48.7	23.8	1	48.7	23.8
					197.parser	1	166	12.6	1	137	15.2
					252.eon	1	63.3	23.8	1	53.3	28.3
					253.perlbnk	1	112	18.6	1	103	20.2
					254.gap	1	73.9	17.3	1	71.5	17.8
					255.vortex	1	79.4	27.8	1	73.4	30.0
					256.bzip2	1	113	15.4	1	113	15.4
					300.twolf	1	230	15.1	1	183	19.1

Hardware

CPU: AMD Opteron (TM) 250
 CPU MHz: 2400
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 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: 4 x 512 MB PC3200 CL3-3-3 DDR SDRAM
 Disk Subsystem: S-ATA 7200 rpm
 Other Hardware: None

Software

Operating System: SuSE Linux 9.1 (AMD64) 2.6.4-52-default
 Compiler: PathScale EKO Compiler Suite, Release 1.4
 - (both for C and C++)
 File System: Linux/Reiser
 System State: Multi-user SuSE Run level 3

Notes/Tuning Information

Tested by Fujitsu Siemens Computers

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

Portability Flags:

186.crafty: -DLINUX_i386
 252.eon: -DHAS_ERRLIST -DSPEC_CPU2000_LP64
 Approved srcalt fmax_errno is used
 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_SIGNAL_PROTO -DSYS_HAS_ANSI
 -DSYS_HAS_CALLOC_PROTO -DSPEC_CPU2000_LP64
 255.vortex: -DSPEC_CPU2000_LP64
 300.twolf: -DHAVE_SIGNED_CHAR

Baseline optimization flags:

C programs: -O3 -ipa +FDO
 C++ programs: -Ofast +FDO



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Notes/Tuning Information (Continued)

Peak tuning:

```
164.gzip: -Ofast +FDO
175.vpr: -O2 -ipa -OPT:alias=disjoint -CG:p2align_freq=500000 +FDO
  loader -INLINE:aggressive=on
  -IPA:space=300:plimit=10000:callee_limit=5000:linear=on
176.gcc: basepeak = true
181.mcf: -O3 -ipa -IPA:field_reorder=on -m32 +FDO
186.crafty: -Ofast +FDO
197.parser: -O3 -ipa -m32 +FDO
  loader -IPA:ctype=on
252.eon: -Ofast -CG:gcm=off:p2align_freq=1:prefetch=off
  -OPT:treeheight=on -TENV:X=4:frame_pointer=off
  -fno-exceptions -LNO:fu=10:full_unroll_outer=on +FDO
  loader -IPA:plimit=4000:pu_reorder=1
253.perlbnk: -O3 -ipa +FDO
  loader -IPA:plimit=10000
254.gap: -O3 -ipa -OPT:transform_to_memlib=on
255.vortex: -Ofast -IPA:space=70:plimit=3000
  -OPT:goto=off:unroll_analysis=off:unroll_size=0:unroll_times_max=8
  -LNO:opt=0 -TENV:X=4 +FDO
256.bzip2: basepeak = true
300.twolf: -O2
  -OPT:unroll_times_max=8:unroll_size=256:alias=disjoint:Ofast
  -CG:gcm=off:p2align_freq=100000 -WOPT:mem_opnds=on
  -m32 +FDO
```

System tested with only 1 CPU present.

BIOS Version 1.05, default settings.

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