



CINT2000 Result

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Fujitsu Siemens Computers
CELSIUS V810, Opteron (TM) 252, Linux 64-bit

SPECint_rate2000 = 40.4
SPECint_rate_base2000 = 36.1

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	91.4	35.6	2	91.4	35.5
175.vpr	2	112	28.9	2	110	29.5
176.gcc	2	62.8	40.7	2	62.1	41.1
181.mcf	2	266	15.7	2	161	26.0
186.crafty	2	45.5	51.0	2	44.3	52.4
197.parser	2	152	27.5	2	125	33.4
252.eon	2	55.1	54.8	2	49.1	61.4
253.perlbnk	2	104	40.2	2	92.7	45.1
254.gap	2	66.2	38.6	2	65.4	39.0
255.vortex	2	75.9	58.1	2	69.1	63.8
256.bzip2	2	105	33.1	2	105	33.1
300.twolf	2	212	32.8	2	165	42.1

Hardware

CPU: AMD Opteron (TM) 252
 CPU MHz: 2600
 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: S-ATA 7200 rpm
 Other Hardware: None

Software

Operating System: SuSE Linux 9.1 (AMD64) 2.6.4-52-smp
 Compiler: PathScale EKOPath (TM) Compiler Suite, Release 2.0
 - (both for C and C++)
 File System: Linux/ReiserFS
 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:

176.gcc: Approved srcalt 64bitgcc is used
 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

Baseline optimization flags:

C programs: -Ofast +FDO
 C++ programs: -Ofast +FDO



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Notes/Tuning Information (Continued)

Peak tuning:

```
164.gzip: -O3 -ipa -m3dnow -WOPT:val=0 +FDO
175.vpr: -O2 -ipa -OPT:alias=disjoint -CG:p2align_freq=500000
        -INLINE:aggressive=on
        -IPA:space=300:plimit=10000:callee_limit=5000:linear=on +FDO
176.gcc: -O3 -ipa -OPT:goto=off +FDO
181.mcf: -O3 -ipa -IPA:field_reorder=on -m32 +FDO
186.crafty: -O3 -OPT:goto=off +FDO
197.parser: -O3 -ipa -m32 -IPA:ctype=on +FDO
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
        -IPA:plimit=4000 +FDO
253.perlbnk: -Ofast -OPT:transform_to_memlib=off -IPA:plimit=10000 +FDO
254.gap: -Ofast -WOPT:aggstr=0 +FDO
255.vortex: -Ofast -OPT:goto=off -IPA:plimit=1800 -CG:p2align=on +FDO
256.bzip2: basepeak = true
300.twolf: -O2 -CG:gcm=off:p2align_freq=100000
        -OPT:Ofast:unroll_times=8:unroll_size=256:alias=disjoint
        -WOPT:mem_opnds=on -m32 +FDO
```

BIOS Version 1.06, default settings except:
ECC memory checking enabled

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