



CINT2000 Result

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Fujitsu Siemens Computers

CELSIUS V810 (Opteron 248 2.2 GHz SuSE 9.0 for AMD64)

SPECint_rate2000 = 15.7

SPECint_rate_base2000 = 14.4

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Feb-2004 | Hardware Avail: Dec-2003 | Software Avail: Nov-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	123	13.2	1	119	13.7
175.vpr	1	132	12.3	1	132	12.3
176.gcc	1	72.7	17.6	1	72.7	17.6
181.mcf	1	285	7.32	1	182	11.5
186.crafty	1	53.2	21.8	1	52.6	22.1
197.parser	1	175	11.9	1	170	12.3
252.eon	1	70.8	21.3	1	64.4	23.4
253.perlbnk	1	119	17.5	1	119	17.5
254.gap	1	91.7	13.9	1	91.7	13.9
255.vortex	1	121	18.2	1	108	20.3
256.bzip2	1	131	13.3	1	130	13.4
300.twolf	1	287	12.1	1	224	15.5

Hardware

CPU: AMD Opteron (TM) 248
 CPU MHz: 2200
 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: --
 Memory: 4 x 1 GB PC2700 DDR SDRAM, ECC Registered
 Disk Subsystem: Maxtor ST020H2
 Other Hardware: None

Software

Operating System: SuSE Linux 9.0 (AMD64) 2.4.21-193-default
 Compiler: SuSE gcc 3.3.1 compiler (from SuSE Linux 9.0)
 File System: Linux/reiserfs
 System State: Multi-user SuSE Run level 3

Notes/Tuning Information

+FDO: PASS1=-fprofile-arcs PASS2=-fbranch-probabilities

Portability:

PORTABILITY=-DSPEC_CPU2000_LP64 is applied to all benchmarks, except for peak runs of 181.mcf, 197.parser and 300.twolf, which are compiled for 32-bit in peak.

186.crafty: CPORABILITY=-DLINUX_i386

176.gcc: Approved src.alt is used.

252.eon: CXXPORTABILITY=-DHAS_ERRLIST -DFMAX_IS_DOUBLE

Approved src.alt is used.

253.perlbnk: CPORABILITY=-DSPEC_CPU2000_LINUX_I386 -DSPEC_CPU2000_NEED_BOOL -DSPEC_CPU2000_GLIBC22

254.gap: CPORABILITY=-DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_TIME_PROTO -DSYS_HAS_SIGNAL_PROTO -DSYS_HAS_ANSI -DSYS_HAS_CALLOC_PROTO

Baseline C: gcc -O3 -funroll-all-loops +FDO

Baseline C++: g++ -O3 -funroll-all-loops +FDO

Peak tuning:

gzip: -O3 -funroll-all-loops -finline-limit=900 -freduce-all-givs +FDO

vpr: -O3 -funroll-loops -finline-limit=1000 +FDO

gcc: basepeak=true

mcf: -O3 -funroll-all-loops -m32 +FDO

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Notes/Tuning Information (Continued)

```
crafty: -O3 -funroll-loops -fprefetch-loop-arrays
parser: -O3 -funroll-all-loops -m32 +FDO
eon: -O3 -funroll-all-loops -ffast-math -finline-limit=3000 +FDO
perlbmk: basepeak=true
gap: basepeak=true
vortex: -O3 -funroll-all-loops -finline-limit=1000 +FDO
bzip2: -O3 -funroll-all-loops -freduce-all-givs -finline-limit=2700 +FDO
twolf: -O3 -funroll-all-loops -finline-limit=2000 -m32 +FDO
ONESTEP is used for all base and peak runs
```

System tested with only one CPU present
BIOS default settings have been used. These include:
ECC memory checking disabled,
memory node interleave disabled, SRAT enabled.

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