CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

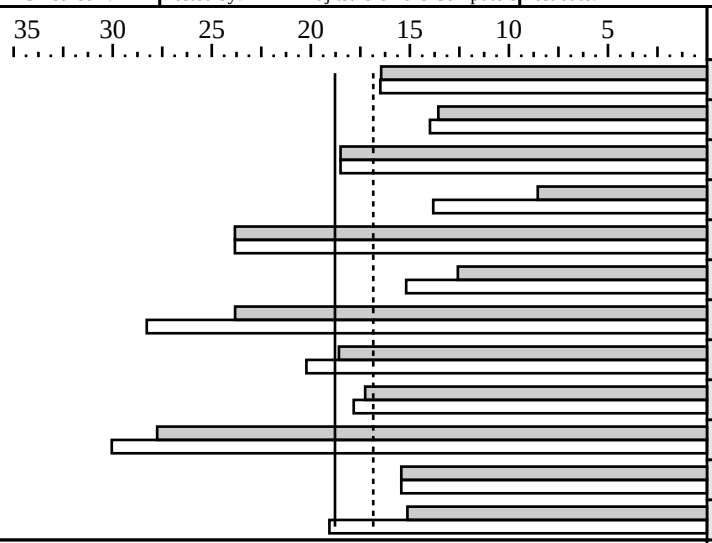
Fujitsu Siemens Computers

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



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.perlbmk	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.perlbmk: -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
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation

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.perlbmk: -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.

For information about Fujitsu Siemens Computers in your country please see:
http://www.fujitsu-siemens.com/countries
```