CINT2000 Result

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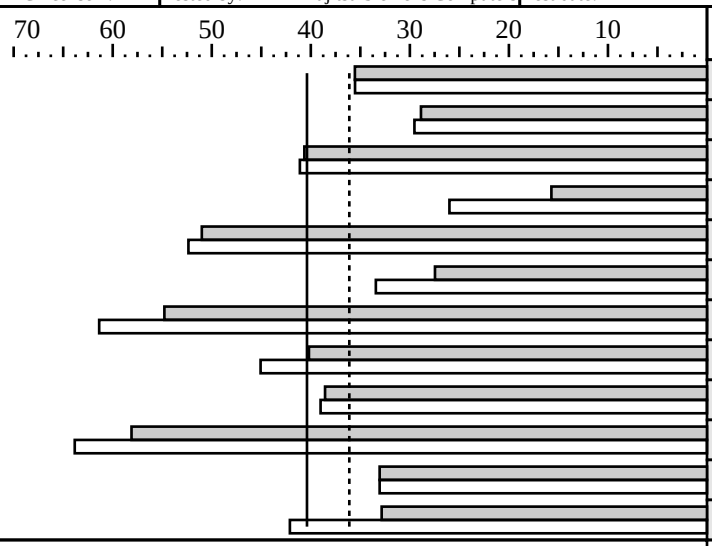
Fujitsu Siemens Computers

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.perlbmk	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

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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.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

 Baseline optimization flags:
   C programs:       -Ofast +FDO
   C++ programs:     -Ofast +FDO
```

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Notes/Tuning Information (Continued)

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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.perlbmk: -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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