CINT2000 Result

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Fujitsu Siemens Computers

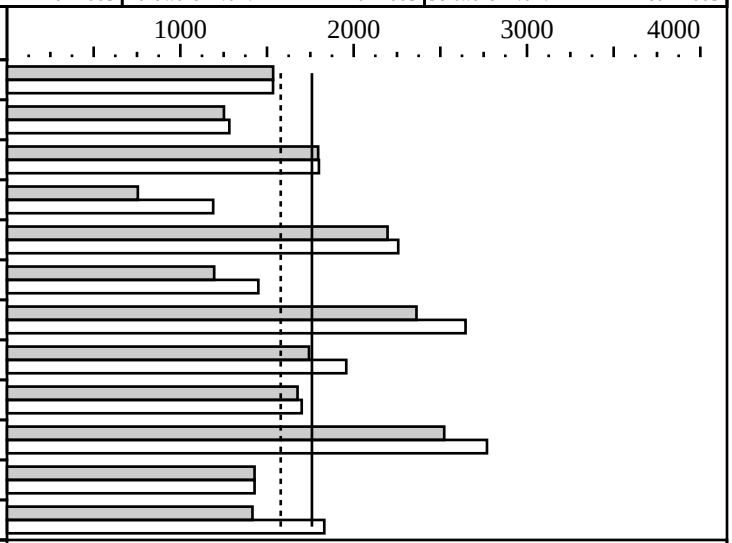
CELSIUS V810, Opteron (TM) 252, Linux 64-bit

SPECint2000 = 1759

SPECint_base2000 = 1579

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	91.2	1535	91.2	1535
175.vpr	1400	112	1252	109	1283
176.gcc	1100	61.3	1795	61.1	1800
181.mcf	1800	238	755	151	1190
186.crafty	1000	45.5	2196	44.3	2257
197.parser	1800	151	1195	124	1450
252.eon	1300	55.0	2362	49.1	2646
253.perlbmk	1800	103	1742	92.0	1957
254.gap	1100	65.6	1676	64.7	1700
255.vortex	1900	75.3	2522	68.6	2769
256.bzip2	1500	105	1428	105	1428
300.twolf	3000	212	1416	164	1831



Hardware

CPU:	AMD Opteron (TM) 252
CPU MHz:	2600
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-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

System tested with only 1 CPU present.

BIOS Version 1.06, default settings.

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http://www.fujitsu-siemens.com/countries
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