CINT2000 Result

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Fujitsu Siemens Computers

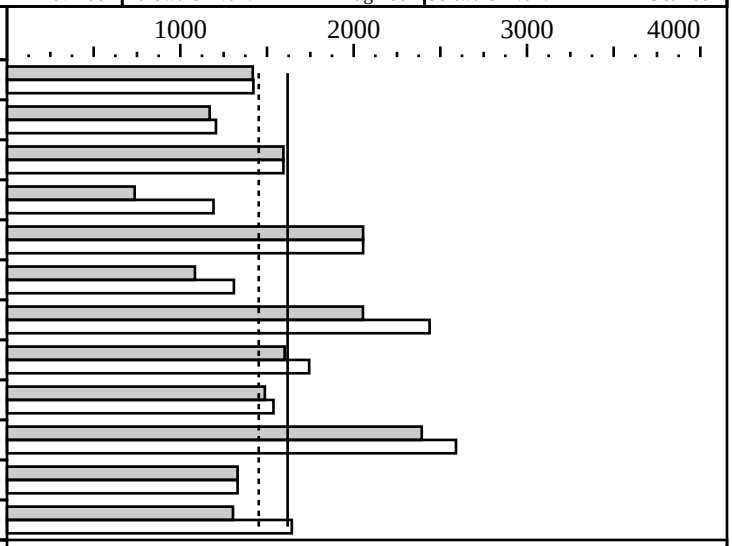
CELSIUS V810, Opteron (TM) 250, Linux 64-bit

SPECint2000 = 1619

SPECint_base2000 = 1452

SPEC license #: 22 | Tested by: Fujitsu Siemens Computers | Test date: Nov-2004 | Hardware Avail: Aug-2004 | Software Avail: Oct-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	98.7	1418	98.5	1422
175.vpr	1400	120	1169	116	1206
176.gcc	1100	69.0	1595	69.0	1595
181.mcf	1800	244	737	151	1191
186.crafty	1000	48.7	2054	48.7	2054
197.parser	1800	166	1084	137	1309
252.eon	1300	63.3	2054	53.3	2438
253.perlbmk	1800	112	1602	103	1743
254.gap	1100	73.9	1488	71.5	1537
255.vortex	1900	79.4	2393	73.4	2590
256.bzip2	1500	113	1330	113	1330
300.twolf	3000	230	1304	183	1643



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

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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
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Notes/Tuning Information (Continued)

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 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.

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