



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

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)

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.perlbnk: -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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