



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

SPECint®2006 = 11.3

CELSIUS V840, AMD Opteron 2218

SPECint_base2006 = 10.7

CPU2006 license: 22

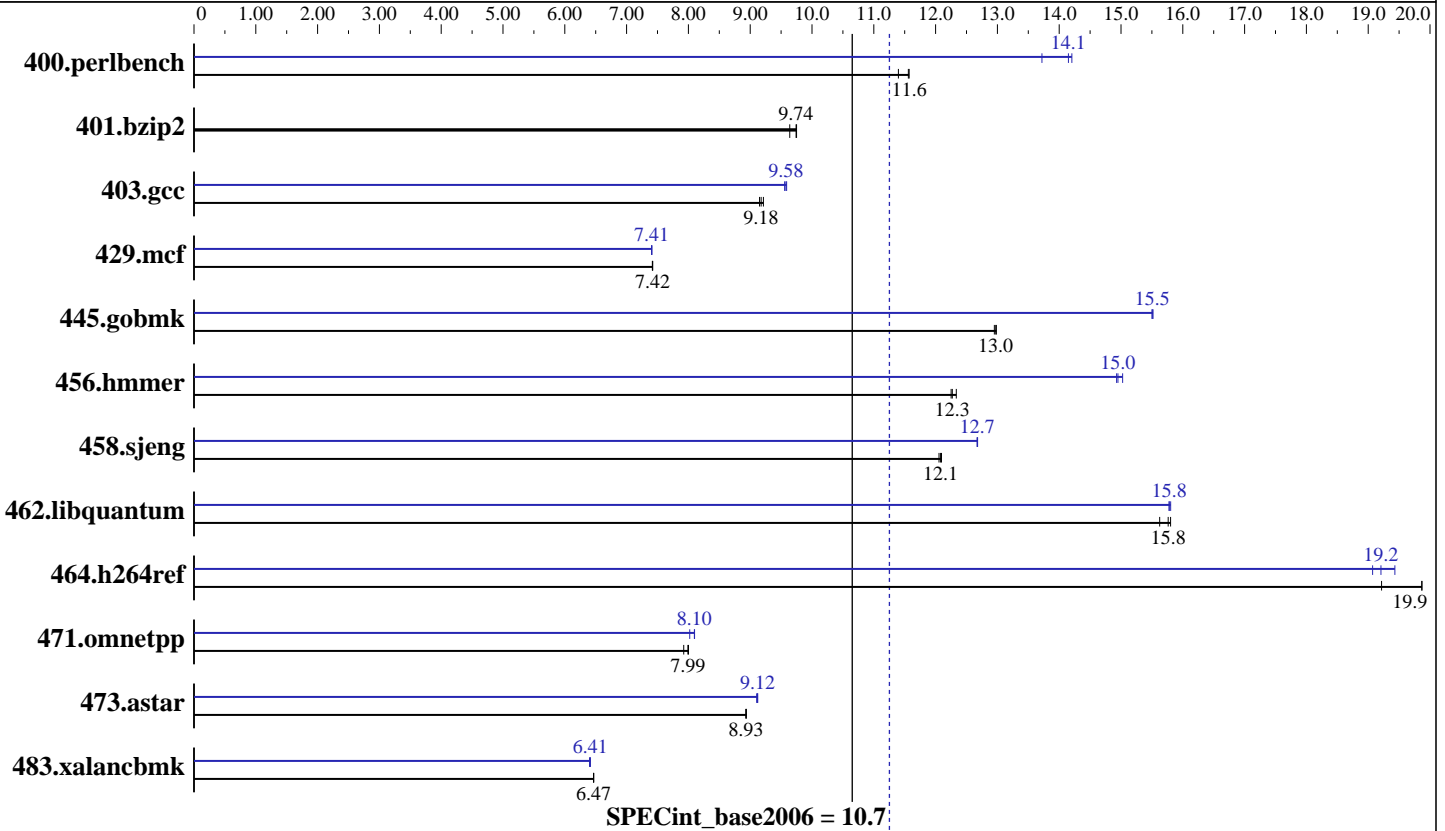
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Jan-2007

Hardware Availability: Nov-2006

Software Availability: Aug-2006



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Hardware

CPU Name: AMD Opteron 2218
 CPU Characteristics: Dual Core, 2.6 GHz, 2 MB L2-cache
 CPU MHz: 2600
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 64 KB I + 64 KB D on chip per core
 Secondary Cache: 1 MB I+D on chip per core
 L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8x2GB DDR2-667 CL5 dual rank ECC DIMMs registered)
 Disk Subsystem: SATA II, 80 GB
 Other Hardware: None

Software

Operating System: SLES 10 for AMD64/EM64T
 Compiler: QLogic Pathscale Compiler Suite 2.5
 Auto Parallel: Yes
 File System: ext3
 System State: Multi-User SuSE Run Level 3
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other Software: --



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	845	11.6	844	11.6	857	11.4	712	13.7	688	14.2	690	14.1
401.bzip2	1001	9.64	991	9.74	990	9.75	1001	9.64	991	9.74	990	9.75
403.gcc	877	9.18	880	9.15	874	9.21	839	9.59	841	9.58	842	9.56
429.mcf	1229	7.42	1229	7.42	1230	7.42	1231	7.41	1231	7.41	1232	7.40
445.gobmk	809	13.0	810	13.0	808	13.0	676	15.5	677	15.5	677	15.5
456.hammer	756	12.3	760	12.3	762	12.3	625	14.9	621	15.0	624	15.0
458.sjeng	1004	12.1	1002	12.1	1000	12.1	955	12.7	954	12.7	955	12.7
462.libquantum	1311	15.8	1314	15.8	1326	15.6	1311	15.8	1313	15.8	1313	15.8
464.h264ref	1114	19.9	1114	19.9	1152	19.2	1139	19.4	1160	19.1	1152	19.2
471.omnetpp	782	7.99	789	7.92	781	8.00	772	8.10	772	8.10	779	8.02
473.astar	785	8.94	786	8.93	786	8.93	770	9.12	771	9.10	770	9.12
483.xalancbmk	1067	6.47	1067	6.47	1067	6.47	1076	6.41	1076	6.41	1078	6.40

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Operating System Notes

powersave -f is applied to set CPU to maximum frequency prior to run
stacksize is set to unlimited prior to run

General Notes

Binaries are generated on an Opteron-based system
running Suse 9.3.

BIOS default settings with
Node memory interleave disabled, SRAT enabled

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Compiler Invocation

C benchmarks:
pathcc

C++ benchmarks:
pathCC



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Portability Flags

```

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmmer: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
471.omnetpp: -DSPEC_CPU_LP64
473.astar: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX

```

Base Optimization Flags

C benchmarks:
-Ofast

C++ benchmarks:
-Ofast

Peak Optimization Flags

C benchmarks:

```

400.perlbench: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast
               -IPA:plimit=525 -IPA:pu_reorder=1

401.bzip2: basepeak = yes

403.gcc: -Ofast -apo

429.mcf: Same as 403.gcc

445.gobmk: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
           -OPT:alias=disjoint -LNO:simd=0 -LNO:minvariant=off

456.hmmmer: -O2 -OPT:alias=disjoint -WOPT:aggstr=0 -CG:cflow=0 -apo

458.sjeng: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
           -IPA:callee_limit=5000 -IPA:linear=on

462.libquantum: -O3 -ipa -CG:local_fwd_sched=on -IPA:space=1000

464.h264ref: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -O3
             -IPA:plimit=20000 -OPT:alias=disjoint -LNO:prefetch=0 -apo

```

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Peak Optimization Flags (Continued)

C++ benchmarks:

471.omnetpp: -Ofast -IPA:pu_reorder=2 -CG:gcm=off

473.astar: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -Ofast

483.xalancbmk: -Ofast -apo

The flags file that was used to format this result can be browsed at

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.14.html

You can also download the XML flags source by saving the following link:

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.14.xml

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