



SPEC® CINT2006 Result

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Fujitsu Siemens Computers

SPECint®2006 = 13.3

CELSIUS V830, Opteron 256, Linux 64-bit

SPECint_base2006 = 11.9

CPU2006 license: 22

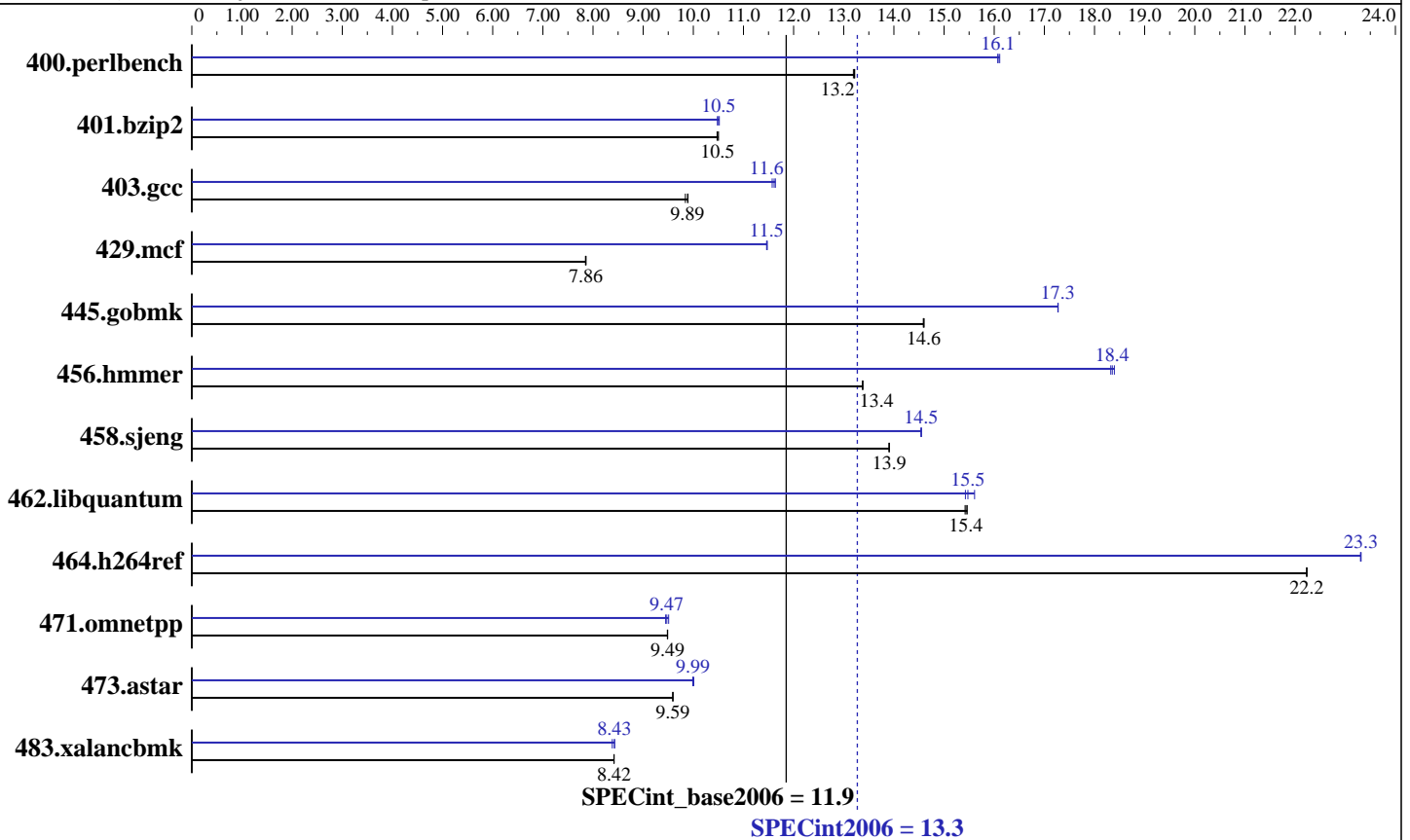
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Apr-2006

Hardware Availability: Sep-2005

Software Availability: Mar-2006



Hardware

CPU Name: AMD Opteron 256
 CPU Characteristics: Opteron 256
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 64 KB I + 64 KB D on chip per chip
 Secondary Cache: 1 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 2 GB (4 x 512 MB PC3200 CL3-3-3 DDR SDRAM)
 Disk Subsystem: SCSI U320
 Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 9 (x86_64) + SP3
 Compiler: QLogic Pathscale Compiler Suite 2.4
 Auto Parallel: No
 File System: ReiserFS
 System State: Multi-User SuSE Run Level 3
 Base Pointers: 32/64-bit
 Peak Pointers: 32/64-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	741	13.2	739	13.2	<u>739</u>	<u>13.2</u>	608	16.1	606	16.1	<u>608</u>	<u>16.1</u>
401.bzip2	919	10.5	921	10.5	<u>920</u>	<u>10.5</u>	921	10.5	917	10.5	<u>919</u>	<u>10.5</u>
403.gcc	<u>814</u>	<u>9.89</u>	818	9.84	814	9.89	692	11.6	<u>693</u>	<u>11.6</u>	696	11.6
429.mcf	1162	7.85	1160	7.86	<u>1161</u>	<u>7.86</u>	795	11.5	<u>795</u>	<u>11.5</u>	796	11.5
445.gobmk	719	14.6	718	14.6	<u>719</u>	<u>14.6</u>	607	17.3	<u>607</u>	<u>17.3</u>	607	17.3
456.hammer	<u>697</u>	<u>13.4</u>	697	13.4	698	13.4	<u>508</u>	<u>18.4</u>	507	18.4	509	18.3
458.sjeng	<u>870</u>	<u>13.9</u>	870	13.9	870	13.9	<u>832</u>	<u>14.5</u>	832	14.5	832	14.5
462.libquantum	1340	15.5	1344	15.4	<u>1342</u>	<u>15.4</u>	1343	15.4	1327	15.6	<u>1339</u>	<u>15.5</u>
464.h264ref	995	22.2	<u>995</u>	<u>22.2</u>	995	22.2	949	23.3	<u>949</u>	<u>23.3</u>	950	23.3
471.omnetpp	659	9.49	659	9.48	<u>659</u>	<u>9.49</u>	657	9.51	<u>660</u>	<u>9.47</u>	662	9.45
473.astar	<u>732</u>	<u>9.59</u>	732	9.60	732	9.59	701	10.0	<u>703</u>	<u>9.99</u>	703	9.99
483.xalancbmk	<u>820</u>	<u>8.42</u>	820	8.42	819	8.42	818	8.43	823	8.38	<u>819</u>	<u>8.43</u>

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

General Notes

BIOS default settings with
Node memory interleave disabled, SRAT enabled

For information about Fujitsu Siemens Computers in your country please see:
<http://www.fujitsu-siemens.com/countries>

Base Compiler Invocation

C benchmarks:
pathcc

C++ benchmarks:
pathCC

Base 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

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Base Portability Flags (Continued)

456.hmmr: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:
-Ofast

C++ benchmarks:
-Ofast -m32

Peak Compiler Invocation

Same as Base Compiler Invocation

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmr: -DSPEC_CPU_LP64
458.sjeng: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
464.h264ref: -DSPEC_CPU_LP64
483.xalancbmk: -DSPEC_CPU_LINUX

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: -O3 -LNO:ou_prod_max=10

403.gcc: -m32 -O3 -OPT:Ofast

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Peak Optimization Flags (Continued)

429.mcf: -fb_create fbdata(pass 1) -fb_opt fbdata(pass 2) -m32 -O2
-ipa

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

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

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

C++ benchmarks:

471.omnetpp: -Ofast -IPA:pu_reorder=2 -CG:gcm=off -m32

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

483.xalancbmk: -Ofast -m32

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.03.html

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

http://www.spec.org/cpu2006/flags/CPU2006_flags.20090715.03.xml

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Tested with SPEC CPU2006 v91.

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