SPEC® CINT2006 Result

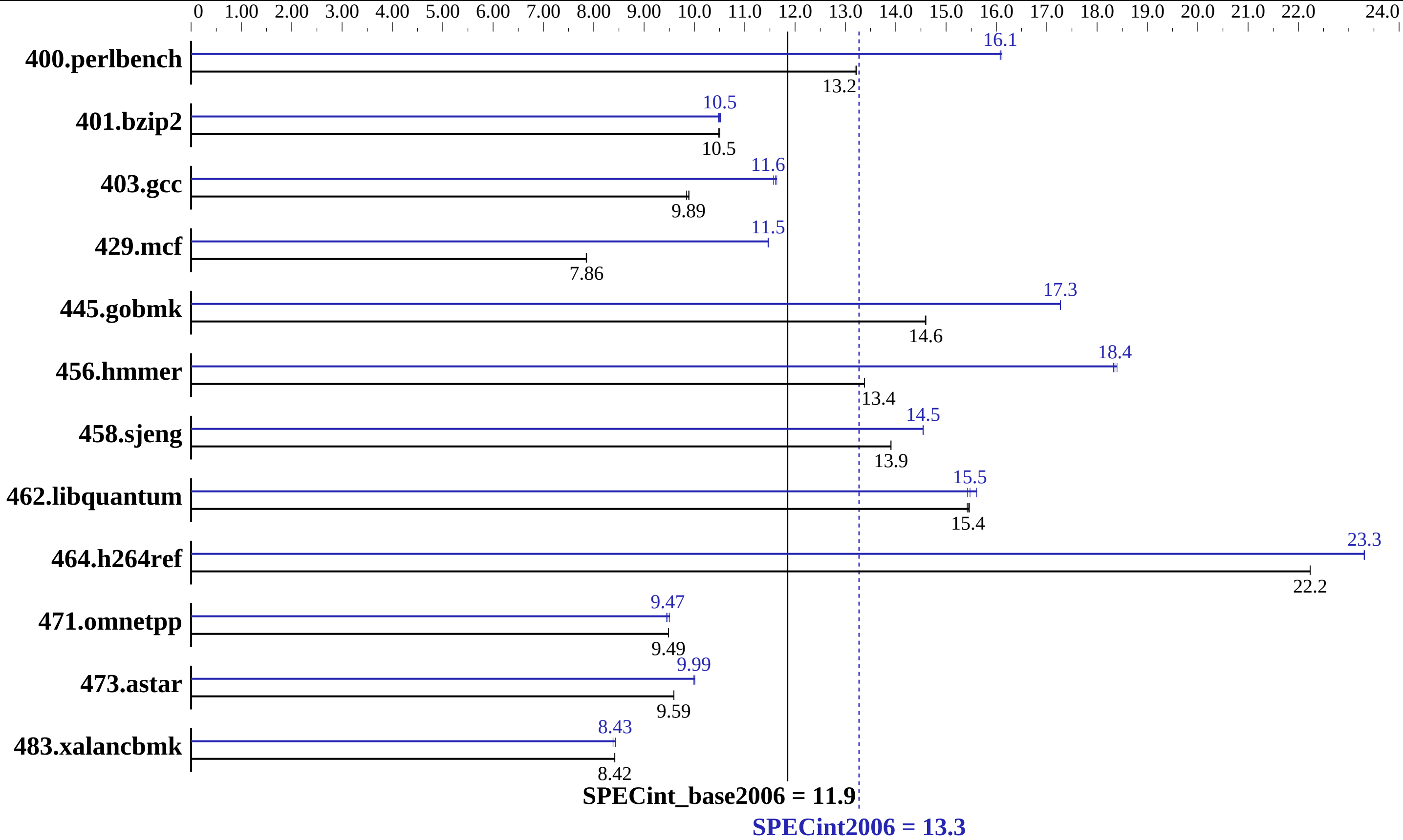
Fujitsu Siemens Computers

CELSIUS V830, Opteron 256, Linux 64-bit

SPECint®2006 = 13.3

SPECint_base2006 = 11.9

CPU2006 license:	22	**Test date:**	Apr-2006
Test sponsor:	Fujitsu Siemens Computers	**Hardware Availability:**	Sep-2005
Tested by:	Fujitsu Siemens Computers	**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

	Base						Peak					
Benchmark	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**
400.perlbench	741	13.2	739	13.2	**739**	**13.2**	608	16.1	606	16.1	**608**	**16.1**
401.bzip2	919	10.5	921	10.5	**920**	**10.5**	921	10.5	917	10.5	**919**	**10.5**
403.gcc	**814**	**9.89**	818	9.84	814	9.89	692	11.6	**693**	**11.6**	696	11.6
429.mcf	1162	7.85	1160	7.86	**1161**	**7.86**	795	11.5	**795**	**11.5**	796	11.5
445.gobmk	719	14.6	718	14.6	**719**	**14.6**	607	17.3	**607**	**17.3**	607	17.3
456.hmmer	**697**	**13.4**	697	13.4	698	13.4	**508**	**18.4**	507	18.4	509	18.3
458.sjeng	**870**	**13.9**	870	13.9	870	13.9	**832**	**14.5**	832	14.5	832	14.5
462.libquantum	1340	15.5	1344	15.4	**1342**	**15.4**	1343	15.4	1327	15.6	**1339**	**15.5**
464.h264ref	995	22.2	**995**	**22.2**	995	22.2	949	23.3	**949**	**23.3**	950	23.3
471.omnetpp	659	9.49	659	9.48	**659**	**9.49**	657	9.51	**660**	**9.47**	662	9.45
473.astar	**732**	**9.59**	732	9.60	732	9.59	701	10.0	**703**	**9.99**	703	9.99
483.xalancbmk	**820**	**8.42**	820	8.42	819	8.42	818	8.43	823	8.38	**819**	**8.43**

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

General Notes

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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
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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.hmmer: -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

C benchmarks:
pathcc

C++ benchmarks:
pathCC

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.hmmer: -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

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Peak Optimization Flags (Continued)

401.bzip2: `-O3 -LNO:ou_prod_max=10`

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

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

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v91.
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