SPEC® CINT2006 Result

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Fujitsu Siemens Computers

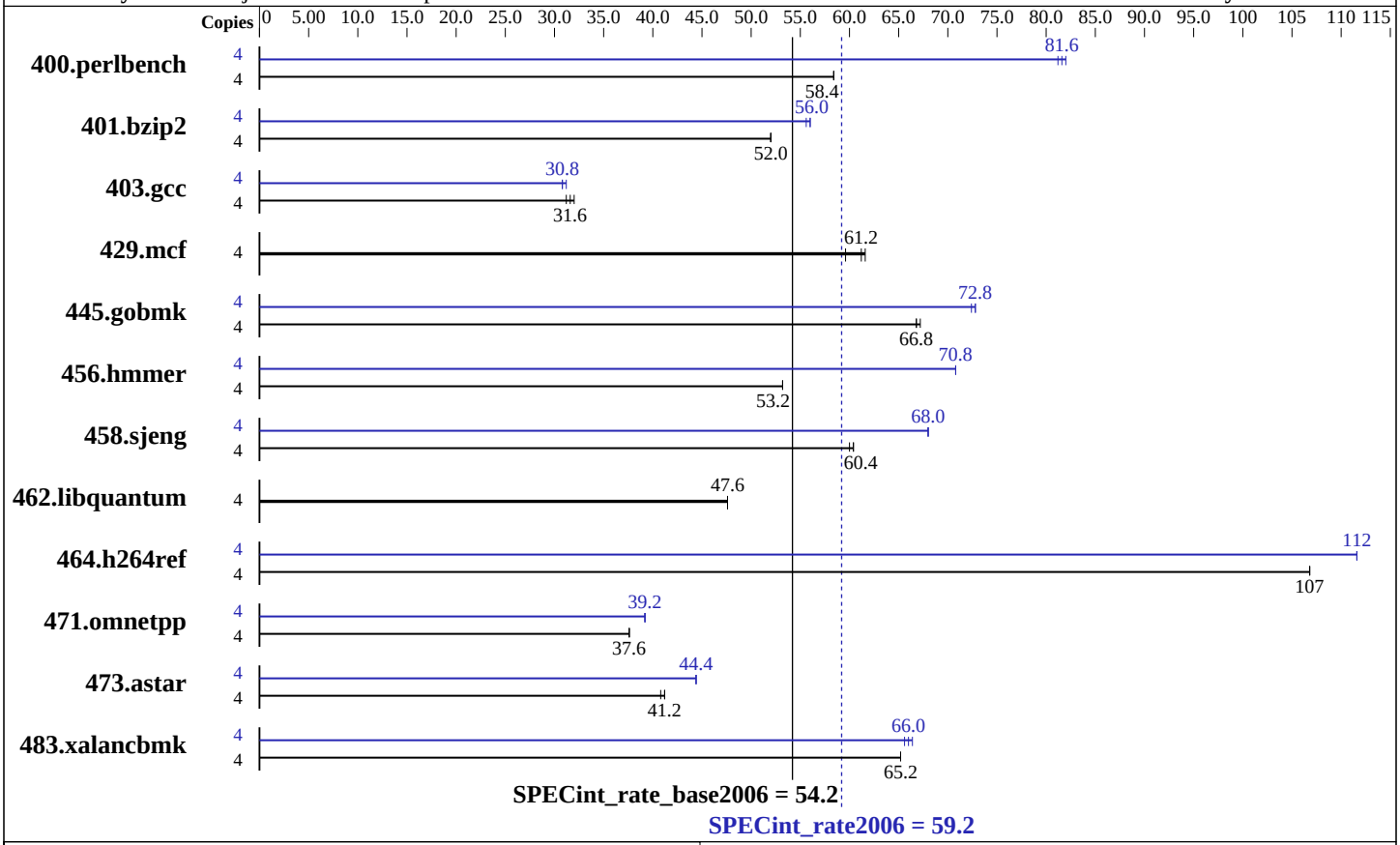
CELSIUS H270, Intel Core 2 Extreme QX9300 processor

SPECint®_rate2006 = 59.2

SPECint_rate_base2006 = 54.2

CPU2006 license: 22
Test sponsor: Fujitsu Siemens Computers
Tested by: Fujitsu Siemens Computers

Test date: Nov-2008
Hardware Availability: Dec-2008
Software Availability: Feb-2008



Hardware

CPU Name:	Intel Core 2 Extreme QX9300
CPU Characteristics:	
CPU MHz:	2530
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	12 MB I+D on chip per chip, 6 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	8 GB (2x4 GB DDR3 1066 MHz SDRAM)
Disk Subsystem:	1 x 80 GB SATA 7200 RPM
Other Hardware:	None

Software

Operating System:	Windows Vista Ultimate, 64 bit Version
Compiler:	Intel C++ Compiler for applications running on IA-32, Version 10.1, Build 20080212 Intel C++ Compiler for applications running on Intel 64, Version 10.1, Build 20080212 Microsoft Visual Studio 2005 with SP1 (for libraries)
Auto Parallel:	No
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	SmartHeap Library Version 9 from http://www.microquill.com/

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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	670	58.4	668	58.4	**669**	**58.4**	4	478	82.0	**479**	**81.6**	481	81.2
401.bzip2	4	740	52.0	**741**	**52.0**	744	52.0	4	691	56.0	692	55.6	**691**	**56.0**
403.gcc	4	1010	32.0	1028	31.2	**1022**	**31.6**	4	1033	31.2	**1040**	**30.8**	1048	30.8
429.mcf	4	**595**	**61.2**	592	61.6	613	59.6	4	**595**	**61.2**	592	61.6	613	59.6
445.gobmk	4	625	67.2	628	66.8	**627**	**66.8**	4	577	72.8	578	72.4	**577**	**72.8**
456.hmmer	4	703	53.2	**703**	**53.2**	703	53.2	4	527	70.8	527	70.8	**527**	**70.8**
458.sjeng	4	804	60.0	**804**	**60.4**	804	60.4	4	**711**	**68.0**	711	68.0	711	68.0
462.libquantum	4	1748	47.6	1741	47.6	**1747**	**47.6**	4	1748	47.6	1741	47.6	**1747**	**47.6**
464.h264ref	4	830	107	**829**	**107**	829	107	4	794	112	**794**	**112**	794	112
471.omnetpp	4	666	37.6	665	37.6	**665**	**37.6**	4	**635**	**39.2**	636	39.2	635	39.2
473.astar	4	685	40.8	684	41.2	**685**	**41.2**	4	634	44.4	633	44.4	**634**	**44.4**
483.xalancbmk	4	423	65.2	424	65.2	**423**	**65.2**	4	416	66.4	420	65.6	**418**	**66.0**

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

Operating System Notes

```
Screen Saver was disabled
Power scheme was set to "Always On"
"Turn off monitor" option within this scheme was set to "Never".
```

Platform Notes

```
BIOS default settings have been used.
```

General Notes

```
For information about Fujitsu Siemens Computers please see:
http://www.fujitsu-siemens.com
```

Base Compiler Invocation

C benchmarks:

```
icl -Qvc8 -Qc99
```

C++ benchmarks:

```
icl -Qvc8
```

Base Portability Flags

403.gcc: -DSPEC_CPU_WIN32
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

Base Optimization Flags

C benchmarks:
-fast -Qvec-guard-write -F512000000

C++ benchmarks:
-fast -Qcxx_features -F512000000 shlW32M.lib -link -FORCE:MULTIPLE

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):
icl -Qvc8 -Qc99

401.bzip2: C:\DevelTools\Intel\Compiler\C++\10.1.021\EM64T\Bin\icl.exe
-IC:\DevelTools\Intel\Compiler\C++\10.1.021\EM64T\Include
-link -LIBPATH:C:\DevelTools\Intel\Compiler\C++\10.1.021\EM64T\Lib
-link -LIBPATH:C:\ProgramFiles\MicrosoftVisualStudio8\VC\lib\AMD64
-link -LIBPATH:C:\ProgramFiles\MicrosoftVisualStudio8\VC\PlatformSDK\lib\AMD64
-link -LIBPATH:C:\ProgramFiles\MicrosoftVisualStudio8\VC\lib

456.hmmer: C:\DevelTools\Intel\Compiler\C++\10.1.021\EM64T\Bin\icl.exe
-IC:\DevelTools\Intel\Compiler\C++\10.1.021\EM64T\Include
-link -LIBPATH:C:\DevelTools\Intel\Compiler\C++\10.1.021\EM64T\Lib
-link -LIBPATH:C:\ProgramFiles\MicrosoftVisualStudio8\VC\lib\AMD64
-link -LIBPATH:C:\ProgramFiles\MicrosoftVisualStudio8\VC\PlatformSDK\lib\AMD64
-link -LIBPATH:C:\ProgramFiles\MicrosoftVisualStudio8\VC\lib

C++ benchmarks:
icl -Qvc8

Peak Portability Flags

401.bzip2: -DSPEC_CPU_P64
403.gcc: -DSPEC_CPU_WIN32
456.hmmer: -DSPEC_CPU_P64
464.h264ref: -DSPEC_CPU_NO_INTTYPES -DWIN32
483.xalancbmk: -Qoption,cpp,--no_wchar_t_keyword

Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qprefetch -F512000000 shlW32M.lib -link -FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch -F512000000

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F512000000

429.mcf: basepeak = yes

445.gobmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qipo -Qprec-div- -Qansi-alias -F512000000

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias -Qopt-multi-version-aggressive -F512000000

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4 -F512000000

462.libquantum: basepeak = yes

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias -F512000000

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qopt-ra-region-strategy=block -Qcxx_features -F512000000 shlW32M.lib -link -FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qopt-ra-region-strategy=routine -Qcxx_features -F512000000 shlW32M.lib -link -FORCE:MULTIPLE

483.xalancbmk: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias -Qcxx_features -F512000000 shlW32M.lib -link -FORCE:MULTIPLE

Peak Other Flags

C benchmarks:

403.gcc: `-Dalloca=_alloca`

The flags file that was used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.html`

You can also download the XML flags source by saving the following link:
`http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.xml`

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

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