SPEC® CINT2006 Result

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Fujitsu Siemens Computers

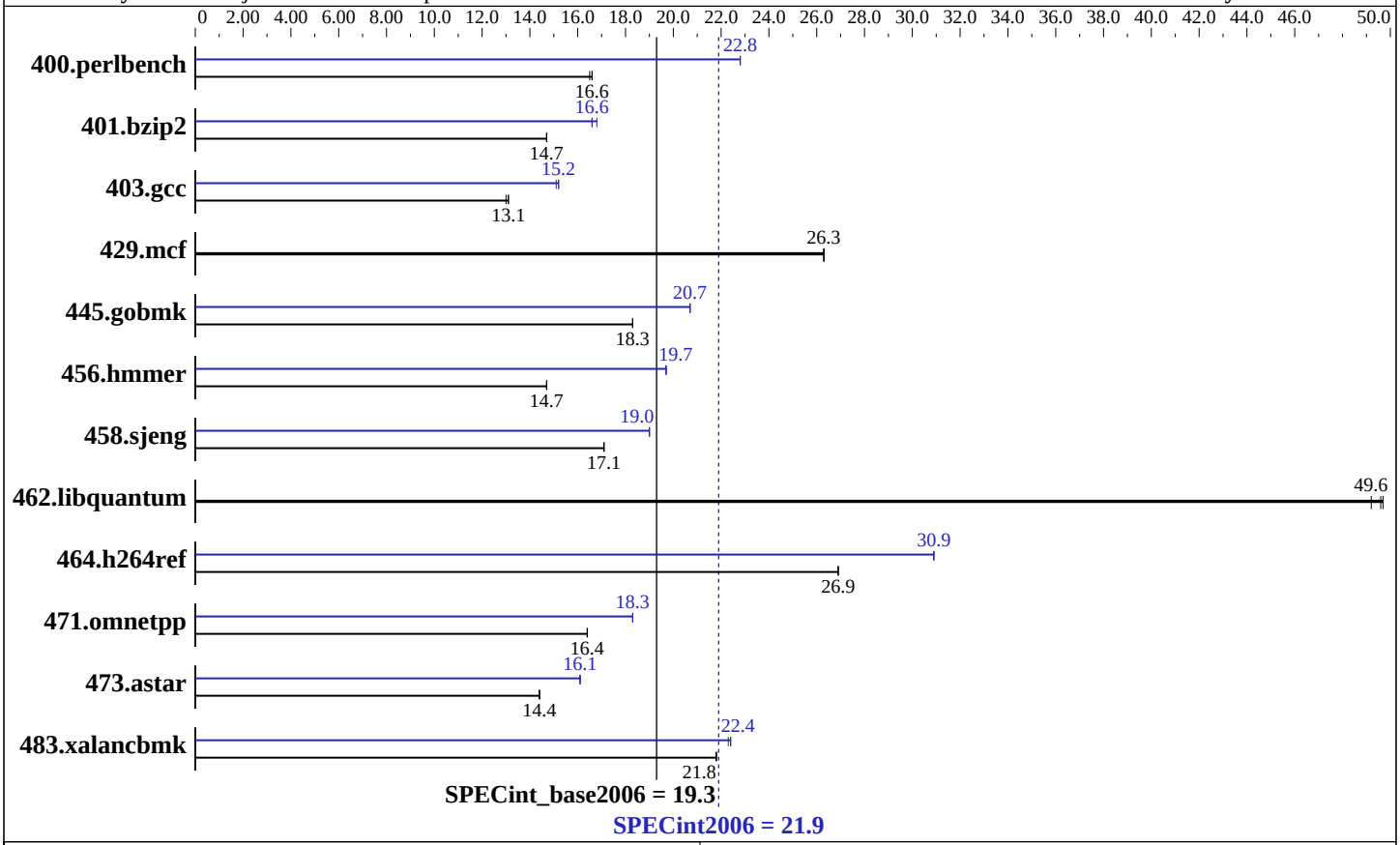
CELSIUS H270, Intel Core 2 Extreme QX9300 processor

SPECint®2006 = 21.9

SPECint_base2006 = 19.3

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:	4 GB (2x2 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 20080312 Intel C++ Compiler for applications running on Intel 64, Version 10.1, Build 20080312 Microsoft Visual Studio 2005 with SP1 (for libraries)
Auto Parallel:	Yes
File System:	NTFS
System State:	Default
Base Pointers:	32-bit
Peak Pointers:	32/64-bit
Other Software:	MicroQuill SmartHeap Library 9

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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	591	16.5	587	16.6	**587**	**16.6**	428	22.8	**428**	**22.8**	428	22.8
401.bzip2	658	14.7	**658**	**14.7**	658	14.7	576	16.8	**580**	**16.6**	581	16.6
403.gcc	617	13.0	615	13.1	**616**	**13.1**	534	15.1	**531**	**15.2**	530	15.2
429.mcf	346	26.3	346	26.3	**346**	**26.3**	346	26.3	346	26.3	**346**	**26.3**
445.gobmk	574	18.3	**574**	**18.3**	575	18.3	508	20.7	507	20.7	**507**	**20.7**
456.hmmer	634	14.7	**634**	**14.7**	634	14.7	473	19.7	**473**	**19.7**	473	19.7
458.sjeng	710	17.1	**710**	**17.1**	710	17.1	638	19.0	**638**	**19.0**	638	19.0
462.libquantum	**418**	**49.6**	417	49.7	421	49.2	**418**	**49.6**	417	49.7	421	49.2
464.h264ref	821	26.9	**821**	**26.9**	821	26.9	716	30.9	**717**	**30.9**	717	30.9
471.omnetpp	382	16.4	**382**	**16.4**	382	16.4	**342**	**18.3**	342	18.3	342	18.3
473.astar	488	14.4	**489**	**14.4**	489	14.4	**436**	**16.1**	436	16.1	436	16.1
483.xalancbmk	316	21.8	**316**	**21.8**	316	21.8	308	22.4	**309**	**22.4**	309	22.3

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 -Qparallel -Qvec-guard-write -Qpar-runtime-control -F512000000 libguide40.lib

C++ benchmarks:
-fast -Qcxx-features -F512000000 libguide40.lib 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 -Qparallel -Qpar-runtime-control -Qansi-alias -Qprefetch -F512000000 libguide40.lib shlW32M.lib -link -FORCE:MULTIPLE

401.bzip2: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch -F512000000 libguide40.lib

403.gcc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F512000000 libguide40.lib

429.mcf: basepeak = yes

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

456.hmmer: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias -Qopt-multi-version-aggressive -F512000000 libguide40.lib

458.sjeng: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll4 -F512000000 libguide40.lib

462.libquantum: basepeak = yes

464.h264ref: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Qansi-alias -F512000000 libguide40.lib

C++ benchmarks:

471.omnetpp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx-features -Qansi-alias -Qopt-ra-region-strategy=block -F512000000 libguide40.lib shlW32M.lib -link -FORCE:MULTIPLE

473.astar: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx-features -Qansi-alias -Qopt-ra-region-strategy=routine -F512000000 libguide40.lib shlW32M.lib -link -FORCE:MULTIPLE

Continued on next page

Peak Optimization Flags (Continued)

483.xalancbmk: `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2) `-fast -Qcxx-features -Qansi-alias -F512000000 libguide40.lib 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 other inquiries, please contact webmaster@spec.org.

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