



# SPEC® CINT2006 Result

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## Fujitsu Siemens Computers

### SPECint®\_rate2006 = 59.2

CELSIUS H270, Intel Core 2 Extreme QX9300 processor

### SPECint\_rate\_base2006 = 54.2

CPU2006 license: 22

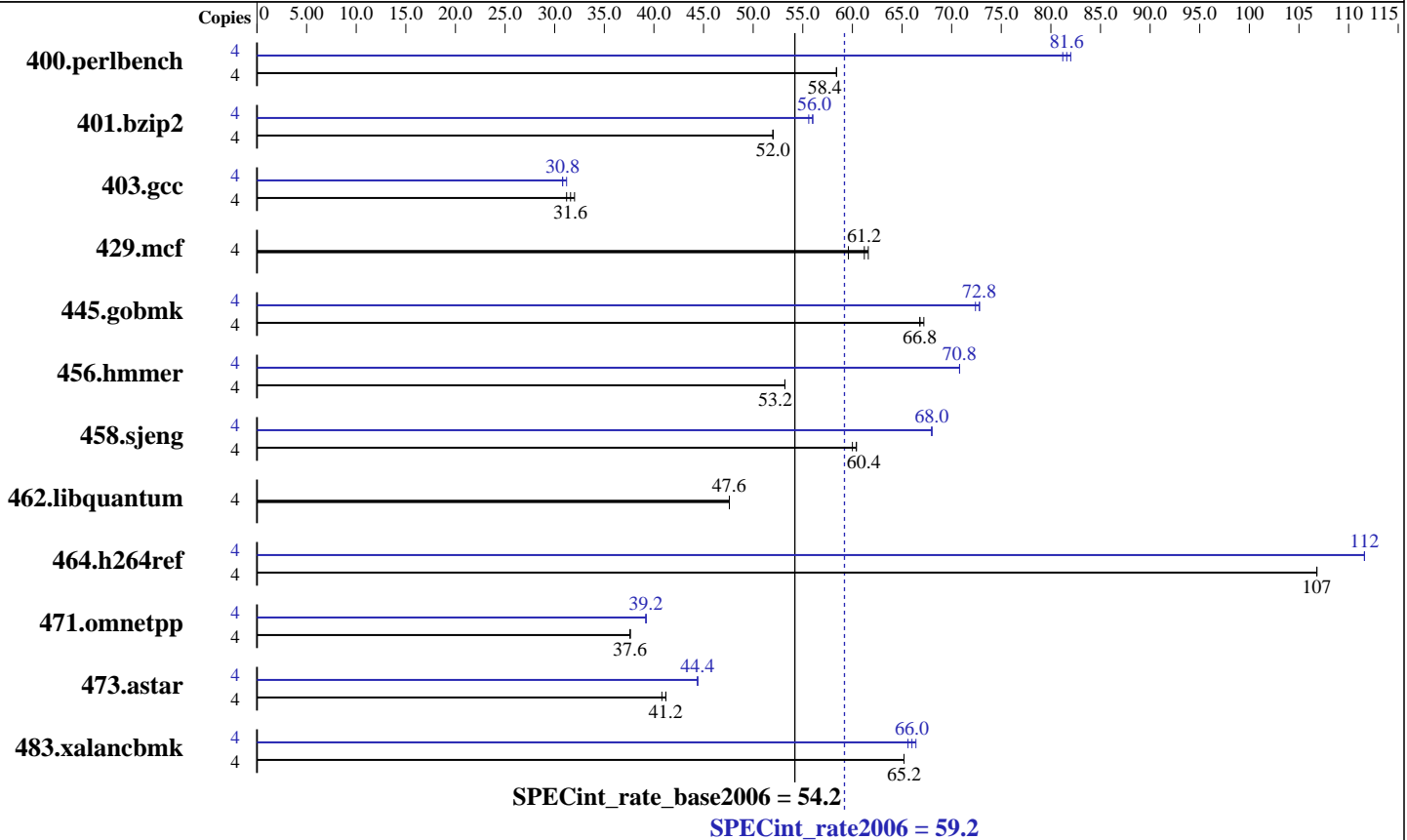
Test date: Nov-2008

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Dec-2008

Tested by: Fujitsu Siemens Computers

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

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



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## 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.hmmr: 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



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## Peak Portability Flags

```

401.bzip2: -DSPEC_CPU_P64
403.gcc: -DSPEC_CPU_WIN32
456.hmmr: -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.hmmr: -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

```



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## 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](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](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](mailto:webmaster@spec.org).

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