



# SPEC® CINT2006 Result

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## Fujitsu Siemens Computers

### SPECint®\_rate2006 = 66.4

### CELSIUS M460, Intel Core 2 Quad Q9650 processor

### SPECint\_rate\_base2006 = 61.1

CPU2006 license: 22

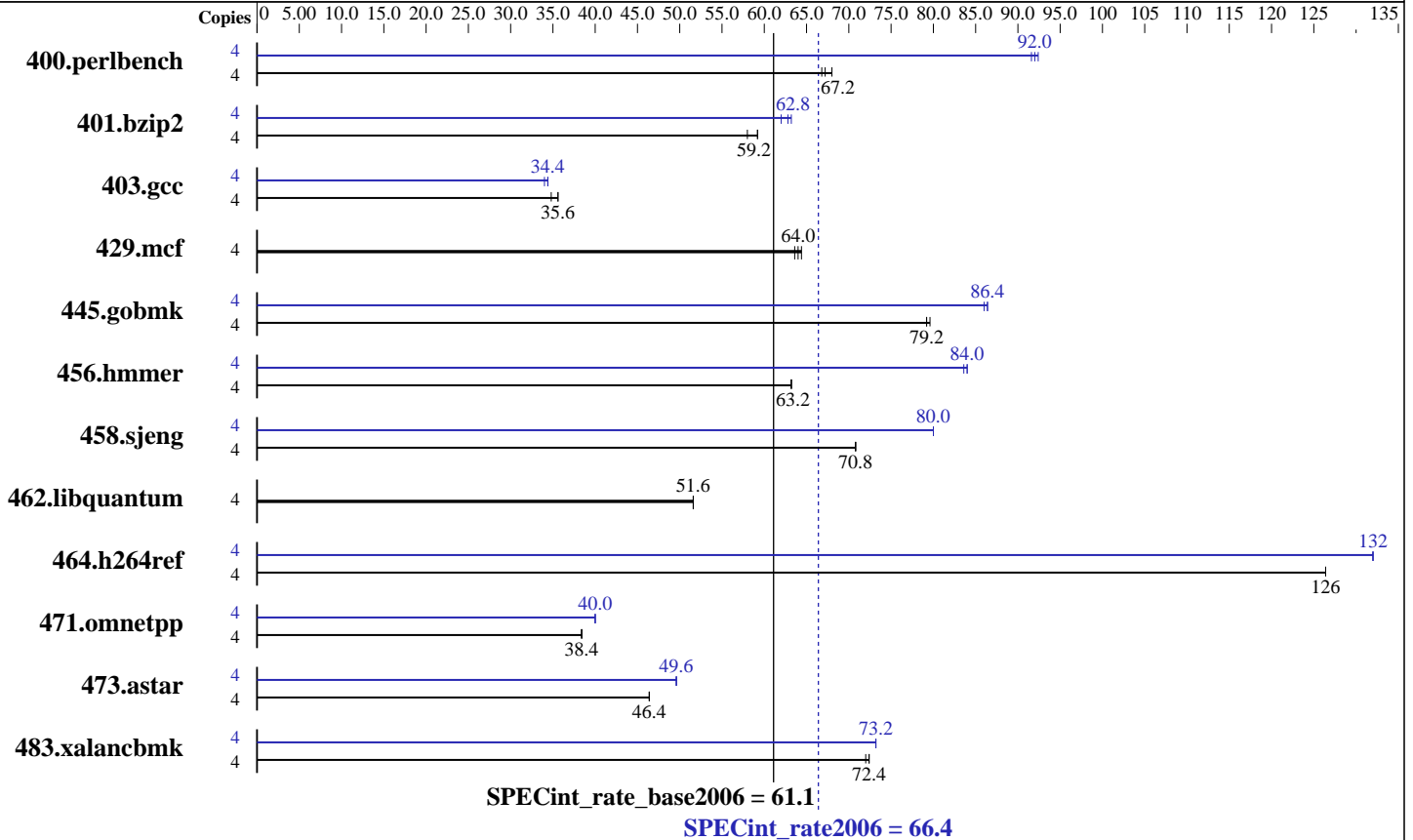
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Sep-2008

Hardware Availability: Sep-2008

Software Availability: Feb-2008



### Hardware

CPU Name: Intel Core 2 Quad Q9650  
 CPU Characteristics:  
 CPU MHz: 3000  
 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 (4x1 GB PC2-6400 CL6 SDRAM)  
 Disk Subsystem: 1 x 400 GB SATA 7200 RPM  
 Other Hardware: None

### Software

Operating System: Windows Vista Ultimate (x64)  
 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	576	68.0	<b>583</b>	<b>67.2</b>	584	66.8	4	<b>425</b>	<b>92.0</b>	424	92.4	426	91.6		
401.bzip2	4	652	59.2	664	58.0	<b>652</b>	<b>59.2</b>	4	611	63.2	<b>615</b>	<b>62.8</b>	622	62.0		
403.gcc	4	<b>909</b>	<b>35.6</b>	908	35.6	921	34.8	4	941	34.4	<b>942</b>	<b>34.4</b>	946	34.0		
429.mcf	4	<b>569</b>	<b>64.0</b>	573	63.6	566	64.4	4	<b>569</b>	<b>64.0</b>	573	63.6	566	64.4		
445.gobmk	4	528	79.6	529	79.2	<b>529</b>	<b>79.2</b>	4	486	86.4	<b>487</b>	<b>86.4</b>	487	86.0		
456.hammer	4	592	63.2	592	63.2	<b>592</b>	<b>63.2</b>	4	446	83.6	444	84.0	<b>444</b>	<b>84.0</b>		
458.sjeng	4	684	70.8	<b>684</b>	<b>70.8</b>	685	70.8	4	<b>606</b>	<b>80.0</b>	606	80.0	606	80.0		
462.libquantum	4	<b>1609</b>	<b>51.6</b>	1609	51.6	1610	51.6	4	<b>1609</b>	<b>51.6</b>	1609	51.6	1610	51.6		
464.h264ref	4	701	126	<b>701</b>	<b>126</b>	700	126	4	671	132	671	132	<b>671</b>	<b>132</b>		
471.omnetpp	4	653	38.4	653	38.4	<b>653</b>	<b>38.4</b>	4	627	40.0	628	40.0	<b>627</b>	<b>40.0</b>		
473.astar	4	606	46.4	<b>607</b>	<b>46.4</b>	607	46.4	4	566	49.6	566	49.6	<b>566</b>	<b>49.6</b>		
483.xalancbmk	4	<b>382</b>	<b>72.4</b>	382	72.0	382	72.4	4	376	73.2	376	73.2	<b>376</b>	<b>73.2</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, modified to Turnoff monitor: 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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