



# SPEC® CINT2006 Result

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## Fujitsu Siemens Computers

### SPECint®\_rate2006 = 58.2

### CELSIUS M460, Intel Core 2 Quad Q6700 processor

### SPECint\_rate\_base2006 = 53.9

CPU2006 license: 22

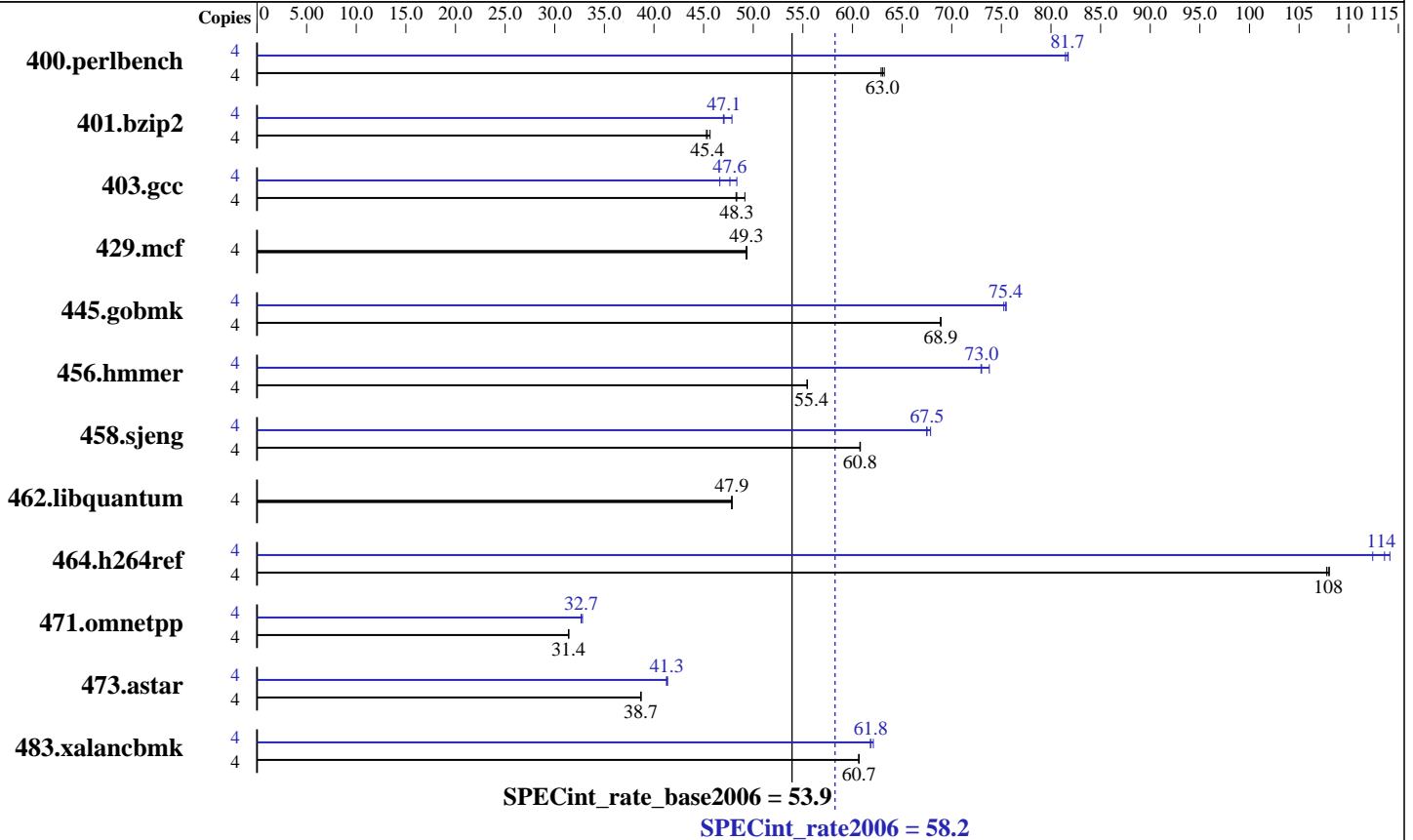
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Dec-2007

Hardware Availability: Nov-2007

Software Availability: Nov-2007



#### Hardware

CPU Name: Intel Core 2 Quad Q6700  
 CPU Characteristics:  
 CPU MHz: 2667  
 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: 8 MB I+D on chip per chip, 4 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 II 7200 RPM  
 Other Hardware: None

#### Software

Operating System: Microsoft Windows Vista Ultimate (x64)  
 Compiler: Intel C++ Compilers for IA-32 and for Intel64, Version 10.1, Build 20070913  
 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: MicroQuill SmartHeap Library, Version 8.1



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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	<b>620</b>	<b>63.0</b>	618	63.2	621	62.9	4	478	81.7	<b>478</b>	<b>81.7</b>	480	81.5
401.bzip2	4	852	45.3	846	45.6	<b>851</b>	<b>45.4</b>	4	<b>820</b>	<b>47.1</b>	821	47.0	807	47.9
403.gcc	4	667	48.3	655	49.2	<b>666</b>	<b>48.3</b>	4	666	48.3	<b>676</b>	<b>47.6</b>	691	46.6
429.mcf	4	740	49.3	<b>740</b>	<b>49.3</b>	739	49.4	4	740	49.3	<b>740</b>	<b>49.3</b>	739	49.4
445.gobmk	4	609	68.9	609	68.9	<b>609</b>	<b>68.9</b>	4	<b>556</b>	<b>75.4</b>	558	75.2	556	75.5
456.hmmmer	4	673	55.4	673	55.5	<b>673</b>	<b>55.4</b>	4	506	73.8	<b>511</b>	<b>73.0</b>	512	72.9
458.sjeng	4	796	60.8	<b>797</b>	<b>60.8</b>	797	60.8	4	713	67.9	717	67.5	<b>717</b>	<b>67.5</b>
462.libquantum	4	1733	47.8	<b>1732</b>	<b>47.9</b>	1732	47.9	4	1733	47.8	<b>1732</b>	<b>47.9</b>	1732	47.9
464.h264ref	4	<b>820</b>	<b>108</b>	821	108	819	108	4	776	114	787	112	<b>779</b>	<b>114</b>
471.omnetpp	4	796	31.4	796	31.4	<b>796</b>	<b>31.4</b>	4	762	32.8	766	32.7	<b>765</b>	<b>32.7</b>
473.astar	4	<b>726</b>	<b>38.7</b>	726	38.7	726	38.7	4	679	41.4	681	41.3	<b>680</b>	<b>41.3</b>
483.xalancbmk	4	455	60.6	455	60.7	<b>455</b>	<b>60.7</b>	4	444	62.1	446	61.8	<b>446</b>	<b>61.8</b>

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

## Platform Notes

BIOS default settings have been used.

## General Notes

All binaries were built with 32-bit Intel compiler except:  
401.bzip2 and 456.hmmmer in peak were built with 64-bit Intel compiler by changing the path for include and library files.

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++\\10.1.011\\EM64T\\Bin\\icl.exe  
-IC:\\DevelTools\\Intel\\Compiler\\C++\\10.1.011\\EM64T\\Include  
-link -LIBPATH:C:\\DevelTools\\Intel\\Compiler\\C++\\10.1.011\\EM64T\\Lib  
-link -LIBPATH:"C:\\Program Files\\Microsoft Visual Studio 8\\vc\\lib"  
-link -LIBPATH:"C:\\Program Files\\Microsoft Visual Studio 8\\vc\\lib\\amd64"  
456.hmmer: C:\\DevelTools\\Intel\\Compiler\\C++\\10.1.011\\EM64T\\Bin\\icl.exe  
-IC:\\DevelTools\\Intel\\Compiler\\C++\\10.1.011\\EM64T\\Include  
-link -LIBPATH:C:\\DevelTools\\Intel\\Compiler\\C++\\10.1.011\\EM64T\\Lib  
-link -LIBPATH:"C:\\Program Files\\Microsoft Visual Studio 8\\vc\\lib"  
-link -LIBPATH:"C:\\Program Files\\Microsoft Visual Studio 8\\vc\\lib\\amd64"  
C++ benchmarks:  
icl -Qvc8

## Peak Portability Flags

401.bzip2: -DSPEC\_CPU\_P64

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## Peak Portability Flags (Continued)

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.20090713.02.html](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.02.html)

You can also download the XML flags source by saving the following link:

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090713.02.xml](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090713.02.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).

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 15:17:31 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 24 January 2008.