



# SPEC® CINT2006 Result

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## Fujitsu Siemens Computers

### SPECint®\_rate2006 = 76.5

### CELSIUS R640, Intel Xeon E5345 processor

### SPECint\_rate\_base2006 = 74.2

CPU2006 license: 22

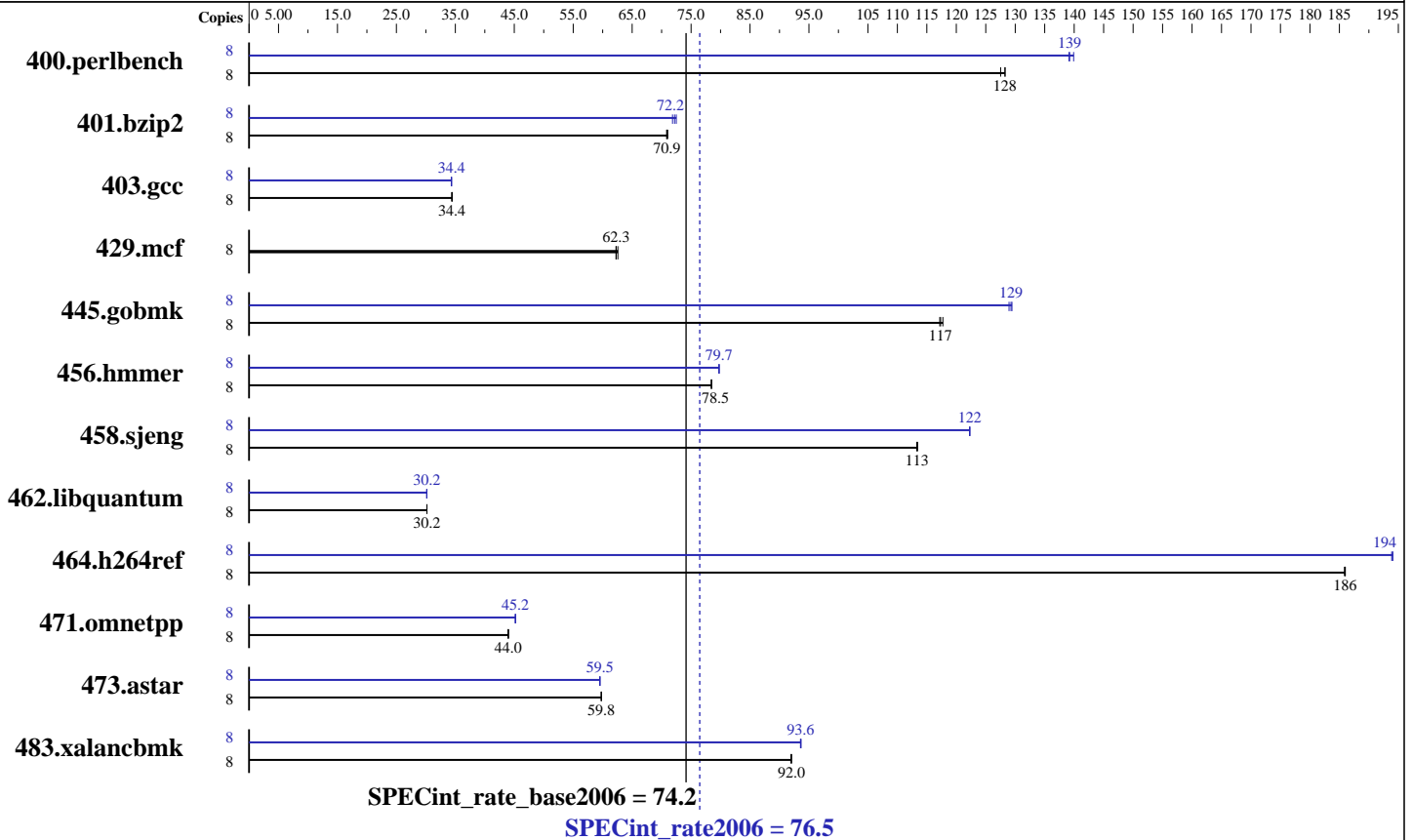
Test date: Mar-2007

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Nov-2006

Tested by: Fujitsu Siemens Computers

Software Availability: Jan-2007



### Hardware

CPU Name: Intel Xeon E5345  
 CPU Characteristics: E5345  
 CPU MHz: 2333  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip  
 CPU(s) orderable: 1,2 chips  
 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: 16 GB (8x2 GB DDR2 5300F, 2 rank, CL5-5-5, ECC)  
 Disk Subsystem: SATA II 7200 rpm  
 Other Hardware: None

### Software

Operating System: Windows XP, 64 bit Edition  
 Compiler: Intel C++ Compiler for 32-bit appl., version 9.1  
 - Build 20070109Z, Package-ID W\_CC\_C\_9.1.034  
 Microsoft Visual Studio .NET 2003 (libr. & linker)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32-bit  
 Peak Pointers: 32-bit  
 Other Software: MicroQuill SmartHeap Library 8.0



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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	8	613	128	<b>609</b>	<b>128</b>	609	128	8	562	139	559	140	<b>561</b>	<b>139</b>
401.bzip2	8	1089	70.9	<b>1089</b>	<b>70.9</b>	1087	71.0	8	1074	71.9	<b>1069</b>	<b>72.2</b>	1065	72.5
403.gcc	8	1868	34.5	1873	34.4	<b>1870</b>	<b>34.4</b>	8	1877	34.3	1874	34.4	<b>1874</b>	<b>34.4</b>
429.mcf	8	1166	62.6	1172	62.3	<b>1171</b>	<b>62.3</b>	8	1166	62.6	1172	62.3	<b>1171</b>	<b>62.3</b>
445.gobmk	8	<b>715</b>	<b>117</b>	716	117	713	118	8	<b>649</b>	<b>129</b>	648	129	651	129
456.hammer	8	951	78.4	951	78.5	<b>951</b>	<b>78.5</b>	8	936	79.7	<b>936</b>	<b>79.7</b>	936	79.8
458.sjeng	8	854	113	<b>854</b>	<b>113</b>	853	113	8	791	122	792	122	<b>792</b>	<b>122</b>
462.libquantum	8	5493	30.2	5492	30.2	<b>5492</b>	<b>30.2</b>	8	5496	30.2	<b>5496</b>	<b>30.2</b>	5496	30.2
464.h264ref	8	953	186	<b>952</b>	<b>186</b>	952	186	8	912	194	913	194	<b>912</b>	<b>194</b>
471.omnetpp	8	1138	43.9	<b>1137</b>	<b>44.0</b>	1136	44.0	8	1105	45.2	<b>1106</b>	<b>45.2</b>	1107	45.2
473.astar	8	940	59.8	<b>940</b>	<b>59.8</b>	939	59.8	8	<b>943</b>	<b>59.5</b>	943	59.5	944	59.5
483.xalancbmk	8	600	91.9	<b>600</b>	<b>92.0</b>	600	92.0	8	590	93.6	589	93.7	<b>590</b>	<b>93.6</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, except:  
High Bandwidth Option Enabled  
(To Optimize throughput of High Bandwidth FSB applications  
on multiprocessor configurations)

## General Notes

'start /b /wait /affinity' command is used to bind CPU(s) to processors.  
The Windows command "start /b /wait /affinity <hex\_affinity\_mask> application"  
starts the specified application without creating a new window (/b)  
and waits for its termination (/wait). Only the processors specified  
in <hex\_affinity\_mask> are allowed to execute the application.  
See the Windows documentation for the description of other parameters  
of the start command.

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## Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99

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## Compiler Invocation (Continued)

C++ benchmarks:

ic1 -Qvc7.1

## Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32  
464.h264ref: -DSPEC\_CPU\_NO\_INTTYPES -DWIN32  
473.astar: -DSPEC\_CPU\_LITTLE\_ENDIAN

## Base Optimization Flags

C benchmarks:

-fast -F512000000 shlw32M.lib -link -FORCE:MULTIPLE

C++ benchmarks:

-fast -Qcxx-features -F512000000 shlw32M.lib -link -FORCE:MULTIPLE

## Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -F512000000  
shlw32M.lib -link -FORCE:MULTIPLE

401.bzip2: Same as 400.perlbench

403.gcc: Same as 400.perlbench

429.mcf: basepeak = yes

445.gobmk: Same as 400.perlbench

456.hmmer: Same as 400.perlbench

458.sjeng: Same as 400.perlbench

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 400.perlbench

C++ benchmarks:

-Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qcxx-features  
-F512000000 shlw32M.lib -link -FORCE:MULTIPLE



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## 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.20070307.html](http://www.spec.org/cpu2006/flags/CPU2006_flags.20070307.html)

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

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20070307.xml](http://www.spec.org/cpu2006/flags/CPU2006_flags.20070307.xml)

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.0.  
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