



# SPEC® CINT2006 Result

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## Fujitsu Siemens Computers

**SPECint®2006 = 15.2**

### CELSIUS R540, Intel Xeon processor E5345

**SPECint\_base2006 = 14.5**

CPU2006 license: 22

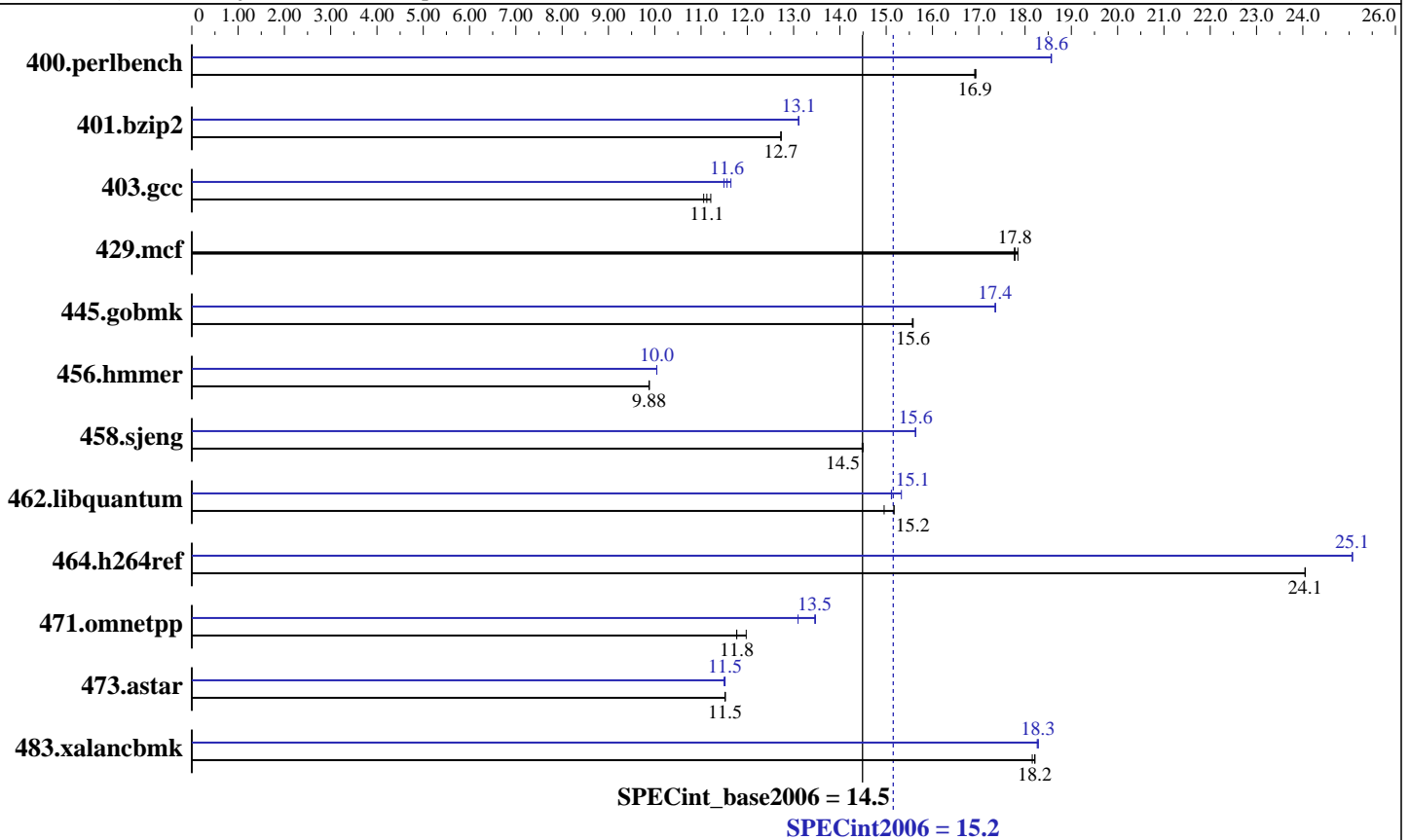
Test date: Mar-2007

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: 8 GB (4x2 GB DDR2 5300F, 2 rank, CL5-5-5,with 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 applications  
 - Version 9.1, Build 20070109Z  
 Microsoft Visual Studio .NET 2003 (for libraries)  
 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	<u>577</u>	<u>16.9</u>	577	16.9	578	16.9	526	18.6	526	18.6	<u>526</u>	<u>18.6</u>
401.bzip2	758	12.7	758	12.7	<u>758</u>	<u>12.7</u>	736	13.1	<u>736</u>	<u>13.1</u>	736	13.1
403.gcc	<u>724</u>	<u>11.1</u>	728	11.1	718	11.2	<u>696</u>	<u>11.6</u>	700	11.5	691	11.6
429.mcf	<u>513</u>	<u>17.8</u>	513	17.8	511	17.8	<u>513</u>	<u>17.8</u>	513	17.8	511	17.8
445.gobmk	674	15.6	<u>673</u>	<u>15.6</u>	673	15.6	<u>604</u>	<u>17.4</u>	604	17.4	604	17.4
456.hammer	944	9.88	944	9.88	<u>944</u>	<u>9.88</u>	<u>929</u>	<u>10.0</u>	929	10.0	929	10.0
458.sjeng	834	14.5	836	14.5	<u>835</u>	<u>14.5</u>	<u>774</u>	<u>15.6</u>	774	15.6	774	15.6
462.libquantum	<u>1366</u>	<u>15.2</u>	1385	15.0	1366	15.2	1352	15.3	1371	15.1	<u>1371</u>	<u>15.1</u>
464.h264ref	920	24.1	920	24.0	<u>920</u>	<u>24.1</u>	883	25.1	<u>883</u>	<u>25.1</u>	883	25.1
471.omnetpp	522	12.0	531	11.8	<u>531</u>	<u>11.8</u>	<u>464</u>	<u>13.5</u>	464	13.5	477	13.1
473.astar	<u>610</u>	<u>11.5</u>	609	11.5	610	11.5	611	11.5	<u>609</u>	<u>11.5</u>	609	11.5
483.xalancbmk	380	18.2	<u>379</u>	<u>18.2</u>	379	18.2	378	18.3	<u>378</u>	<u>18.3</u>	377	18.3

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:

Snoop Filter Enabled

(The Snoop Filter is designed to reduce system bus utilization coming from cache misses. It can lead to significant memory performance improvements for several workstation applications on suitable memory configurations.)

Adjacent Cache Line Prefetch Enabled

(Prefetches a cache line pair of data instead of only the cache line that contains the requested data. This helps to improve data access time for some applications, especially for single processors.)

## General Notes

For information about Fujitsu Siemens Computers in your country please see:

<http://www.fujitsu-siemens.com/countries>

## Compiler Invocation

C benchmarks:

icl -Qvc7.1 -Qc99

C++ benchmarks:

icl -Qvc7.1



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## Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32  
464.h264ref: -DSPEC\_CPU\_NO\_INTTYPES -DWIN32

## 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

## Other Flags

C benchmarks:

403.gcc: -Dalloca=\_alloca



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The flags file that was used to format this result can be browsed at

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090714.18.html](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.18.html)

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

[http://www.spec.org/cpu2006/flags/CPU2006\\_flags.20090714.18.xml](http://www.spec.org/cpu2006/flags/CPU2006_flags.20090714.18.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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