



# SPEC® CINT2006 Result

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## Fujitsu Siemens Computers

PRIMERGY RX200 S4, Intel Xeon processor E5430, 2.66 GHz

**SPECint®\_rate2006 = 102**

**SPECint\_rate\_base2006 = 102**

CPU2006 license: 22

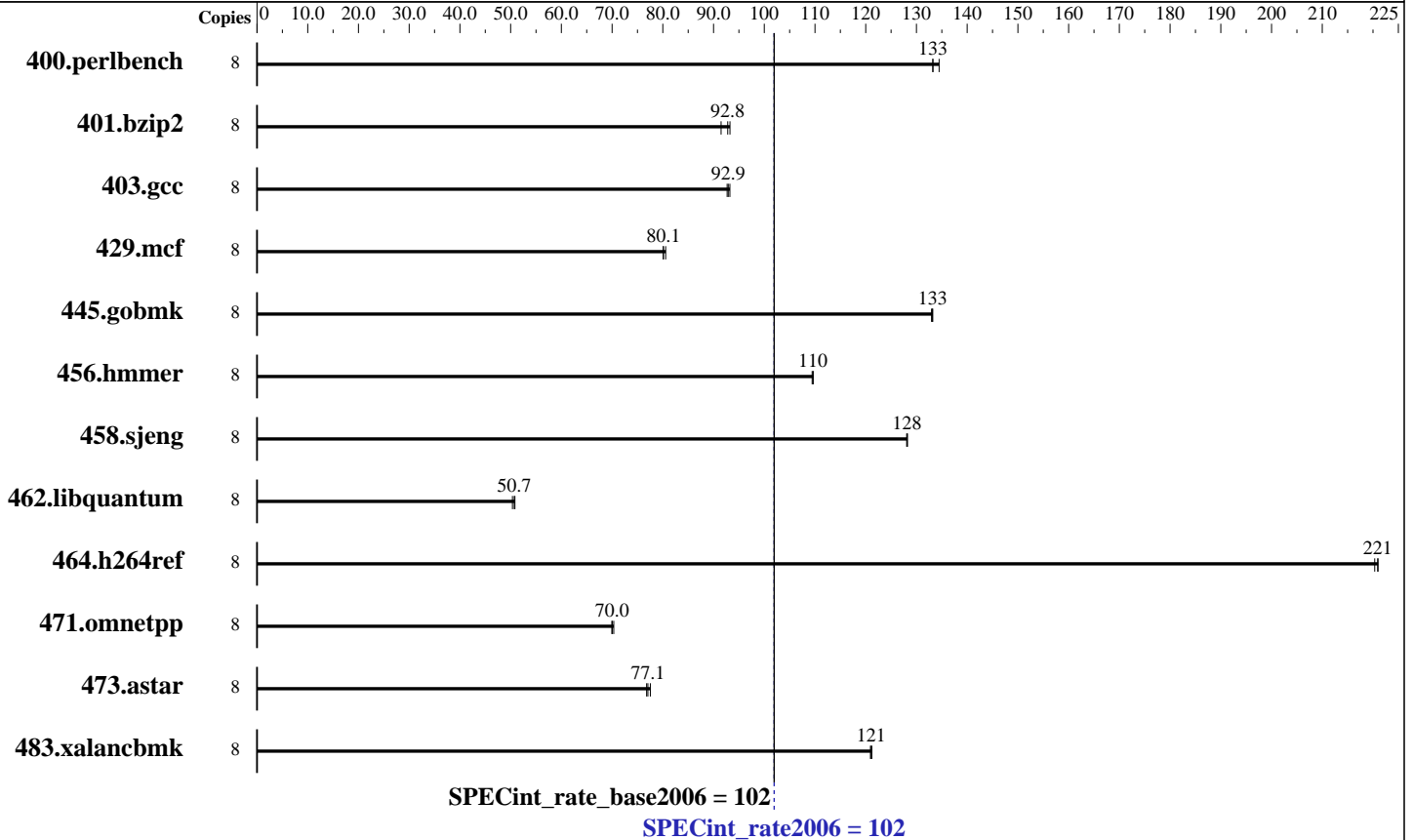
Test sponsor: Fujitsu Siemens Computers

Tested by: Fujitsu Siemens Computers

Test date: Nov-2007

Hardware Availability: Dec-2007

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Xeon E5430  
 CPU Characteristics: 1333 MHz system bus  
 CPU MHz: 2667  
 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: 12 MB I+D on chip per chip, 6 MB shared / 2 cores  
 L3 Cache: None  
 Other Cache: None  
 Memory: 16 GB (8x2 GB PC2-5300F, 2 rank, CAS 5-5-5, with ECC)  
 Disk Subsystem: Seagate ST973451SS (SAS, 73GB, 15000rpm)  
 Other Hardware: None

### Software

Operating System: SUSE Linux Enterprise Server 10 (x86\_64) SP1, Kernel 2.6.16.46-0.12-smp  
 Compiler: Intel C++ Compiler for Linux32 and Linux64 Version 10.1 - Build 20070725  
 Auto Parallel: No  
 File System: ext2  
 System State: Multiuser, Runlevel 3  
 Base Pointers: 32-bit  
 Peak Pointers: 32-bit  
 Other Software: Smart Heap Library, Version 8.1  
 binutils-2.17.tar.gz, Version 2.17



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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	581	134	<u>587</u>	<u>133</u>	587	133	8	581	134	<u>587</u>	<u>133</u>	587	133
401.bzip2	8	<u>832</u>	<u>92.8</u>	828	93.2	844	91.5	8	<u>832</u>	<u>92.8</u>	828	93.2	844	91.5
403.gcc	8	<u>693</u>	<u>92.9</u>	695	92.7	691	93.2	8	<u>693</u>	<u>92.9</u>	695	92.7	691	93.2
429.mcf	8	906	80.6	<u>911</u>	<u>80.1</u>	911	80.1	8	906	80.6	<u>911</u>	<u>80.1</u>	911	80.1
445.gobmk	8	630	133	<u>630</u>	<u>133</u>	631	133	8	630	133	<u>630</u>	<u>133</u>	631	133
456.hammer	8	681	110	682	109	<u>681</u>	<u>110</u>	8	681	110	682	109	<u>681</u>	<u>110</u>
458.sjeng	8	<u>755</u>	<u>128</u>	755	128	756	128	8	<u>755</u>	<u>128</u>	755	128	756	128
462.libquantum	8	3292	50.4	<u>3269</u>	<u>50.7</u>	3260	50.8	8	3292	50.4	<u>3269</u>	<u>50.7</u>	3260	50.8
464.h264ref	8	803	220	<u>801</u>	<u>221</u>	801	221	8	803	220	<u>801</u>	<u>221</u>	801	221
471.omnetpp	8	715	70.0	711	70.3	<u>714</u>	<u>70.0</u>	8	715	70.0	711	70.3	<u>714</u>	<u>70.0</u>
473.astar	8	724	77.5	731	76.8	<u>729</u>	<u>77.1</u>	8	724	77.5	731	76.8	<u>729</u>	<u>77.1</u>
483.xalancbmk	8	456	121	<u>456</u>	<u>121</u>	455	121	8	456	121	<u>456</u>	<u>121</u>	455	121

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

## General Notes

This result has been produced with binaries provided and compiled by Intel.

BIOS configuration:

Hardware Prefetch = Disable, Adjacent Sector Prefetch = Disable

For information about Fujitsu Siemens Computers please see:

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

## Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

## Base Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
462.libquantum: -DSPEC\_CPU\_LINUX  
483.xalancbmk: -DSPEC\_CPU\_LINUX



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## Base Optimization Flags

C benchmarks:

`-fast -inline-calloc -opt-malloc-options=3`

C++ benchmarks:

`-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs  
-L/home/cmplr/usr3/alrahate/cpu2006.1.0/lib -lsmartheap`

## Base Other Flags

C benchmarks:

`403.gcc: -Dalloca=_alloca`

## Peak Optimization Flags

C benchmarks:

`400.perlbench: basepeak = yes`

`401.bzip2: basepeak = yes`

`403.gcc: basepeak = yes`

`429.mcf: basepeak = yes`

`445.gobmk: basepeak = yes`

`456.hmmer: basepeak = yes`

`458.sjeng: basepeak = yes`

`462.libquantum: basepeak = yes`

`464.h264ref: basepeak = yes`

C++ benchmarks:

`471.omnetpp: basepeak = yes`

`473.astar: basepeak = yes`

`483.xalancbmk: basepeak = yes`



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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.06.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.06.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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