



# SPEC® CINT2006 Result

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## Fujitsu Siemens Computers

**SPECint®2006 = 27.2**

PRIMERGY RX200 S4, Intel Xeon X5260, 3.33 GHz

**SPECint\_base2006 = 22.8**

CPU2006 license: 22

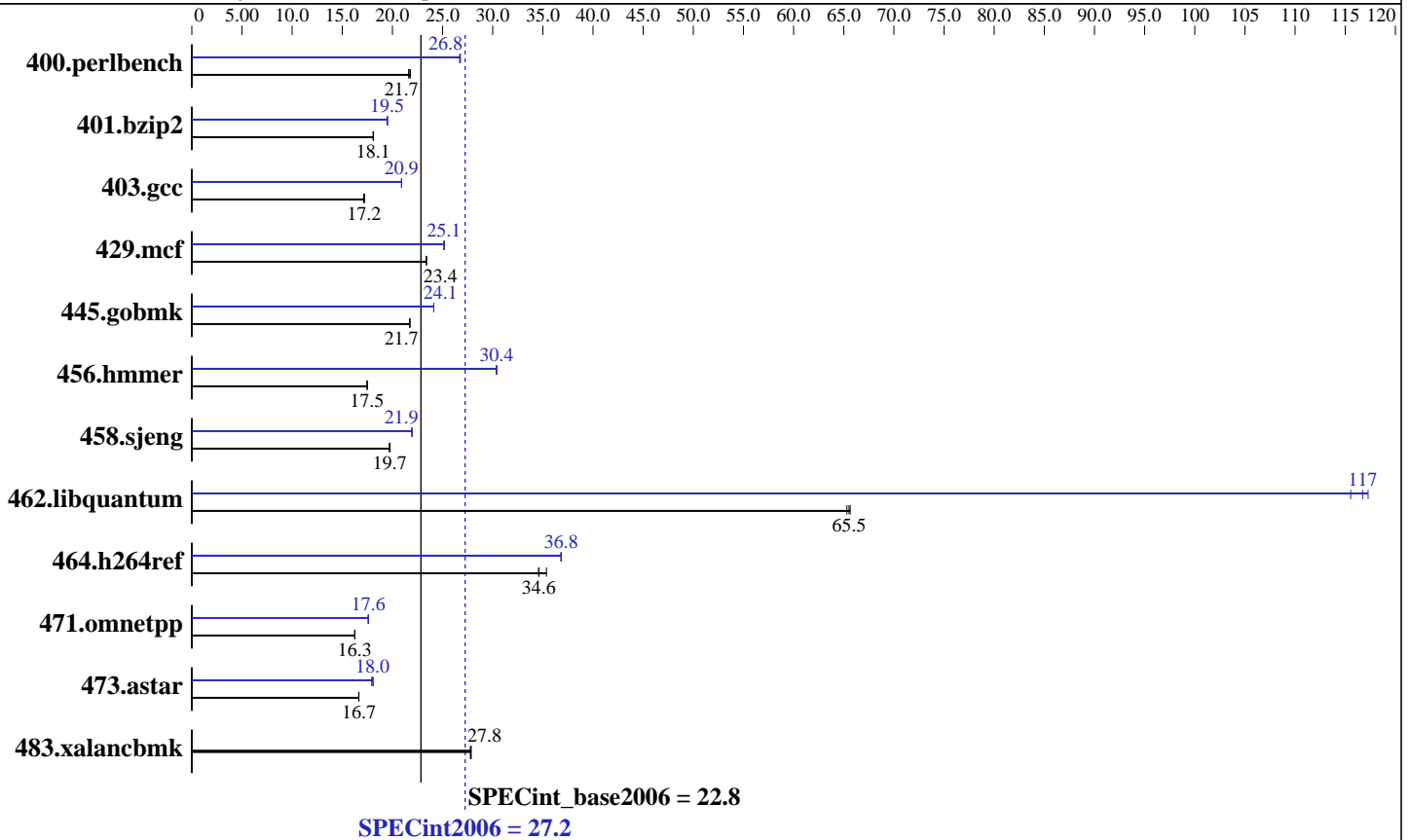
Test date: Jul-2008

Test sponsor: Fujitsu Siemens Computers

Hardware Availability: Dec-2007

Tested by: Fujitsu Siemens Computers

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Xeon X5260  
 CPU Characteristics: 1333 MHz system bus  
 CPU MHz: 3333  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip  
 CPU(s) orderable: 1,2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 6 MB I+D on chip per chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 16 GB (8x2 GB PC2-5300F, 2 rank, CL 5-5-5, ECC)  
 Disk Subsystem: 1x SAS, 73 GB, 15000 rpm  
 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 20070913  
 Auto Parallel: Yes  
 File System: ext2  
 System State: Multi-User Run Level 3  
 Base Pointers: 32-bit  
 Peak Pointers: 32/64-bit  
 Other Software: MicroQuill SmartHeap Library, Version 8.1 binutils-2.17.50.0.5-0.1.x86\_64



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## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	<b><u>451</u></b>	<b><u>21.7</u></b>	448	21.8	452	21.6	<b><u>365</u></b>	<b><u>26.8</u></b>	366	26.7	365	26.8
401.bzip2	533	18.1	534	18.1	<b><u>533</u></b>	<b><u>18.1</u></b>	496	19.5	<b><u>495</u></b>	<b><u>19.5</u></b>	494	19.5
403.gcc	470	17.1	468	17.2	<b><u>468</u></b>	<b><u>17.2</u></b>	385	20.9	<b><u>385</u></b>	<b><u>20.9</u></b>	385	20.9
429.mcf	390	23.4	<b><u>390</u></b>	<b><u>23.4</u></b>	390	23.4	362	25.2	363	25.1	<b><u>363</u></b>	<b><u>25.1</u></b>
445.gobmk	482	21.7	<b><u>483</u></b>	<b><u>21.7</u></b>	483	21.7	435	24.1	<b><u>435</u></b>	<b><u>24.1</u></b>	435	24.1
456.hmmmer	<b><u>534</u></b>	<b><u>17.5</u></b>	533	17.5	534	17.5	<b><u>307</u></b>	<b><u>30.4</u></b>	307	30.3	307	30.4
458.sjeng	<b><u>613</u></b>	<b><u>19.7</u></b>	615	19.7	612	19.8	551	22.0	552	21.9	<b><u>552</u></b>	<b><u>21.9</u></b>
462.libquantum	317	65.3	<b><u>316</u></b>	<b><u>65.5</u></b>	316	65.6	<b><u>177</u></b>	<b><u>117</u></b>	179	116	177	117
464.h264ref	626	35.4	<b><u>640</u></b>	<b><u>34.6</u></b>	640	34.6	601	36.8	602	36.8	<b><u>601</u></b>	<b><u>36.8</u></b>
471.omnetpp	385	16.2	<b><u>384</u></b>	<b><u>16.3</u></b>	384	16.3	356	17.6	<b><u>355</u></b>	<b><u>17.6</u></b>	355	17.6
473.astar	<b><u>421</u></b>	<b><u>16.7</u></b>	422	16.6	421	16.7	388	18.1	<b><u>389</u></b>	<b><u>18.0</u></b>	391	17.9
483.xalancbmk	248	27.8	<b><u>248</u></b>	<b><u>27.8</u></b>	248	27.8	248	27.8	<b><u>248</u></b>	<b><u>27.8</u></b>	248	27.8

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

## Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run  
OMP\_NUM\_THREADS set to number of cores (default)

## Platform Notes

BIOS configuration:  
Hardware Prefetch = Enable, Adjacent Sector Prefetch = Enable

## 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:  
icc

C++ benchmarks:  
icpc



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## Base Portability Flags

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

## Base Optimization Flags

C benchmarks:  
-fast -vec-guard-write -parallel -par-runtime-control

C++ benchmarks:  
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs  
-L/opt/SmartHeap\_8.1/lib -lsmartheap

## Base Other Flags

C benchmarks:  
403.gcc: -Dalloca=\_alloca

## Peak Compiler Invocation

C benchmarks (except as noted below):  
icc

401.bzip2: /opt/intel/cce/10.1.008/bin/icc  
-L/opt/intel/cce/10.1.008/lib  
-I/opt/intel/cce/10.1.008/include

456.hmmer: /opt/intel/cce/10.1.008/bin/icc  
-L/opt/intel/cce/10.1.008/lib  
-I/opt/intel/cce/10.1.008/include

C++ benchmarks:  
icpc

## Peak Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
401.bzip2: -DSPEC\_CPU\_LP64  
456.hmmer: -DSPEC\_CPU\_LP64  
462.libquantum: -DSPEC\_CPU\_LINUX

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## Peak Portability Flags (Continued)

483.xalanbmk: -DSPEC\_CPU\_LINUX

## Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -fast -ansi-alias  
-prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch  
-auto-ilp32

403.gcc: -fast -inline-calloc -opt-malloc-options=3

429.mcf: -fast -prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo  
-no-prec-div -ansi-alias

456.hmmcr: -fast -unroll2 -ansi-alias -opt-multi-version-aggressive  
-auto-ilp32

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4

462.libquantum: -fast -unroll4 -Ob0 -prefetch  
-opt-streaming-stores always -vec-guard-write  
-opt-malloc-options=3 -parallel -par-runtime-control

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2  
-ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo  
-no-prec-div -ansi-alias -opt-ra-region-strategy=block  
-Wl,-z,muldefs -L/opt/SmartHeap\_8.1/lib -lsmarheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo  
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine  
-Wl,-z,muldefs -L/opt/SmartHeap\_8.1/lib -lsmarheap

483.xalanbmk: basepeak = yes



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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/Intel-ic10-ia32-intel64-linux-flags.20090713.01.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.20090713.01.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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