



# SPEC® CINT2006 Result

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Itaotec

SPECint®\_rate2006 = 63.1

Servidor Itaotec MX201 (Intel Xeon E5410)

SPECint\_rate\_base2006 = 53.0

CPU2006 license: 9001

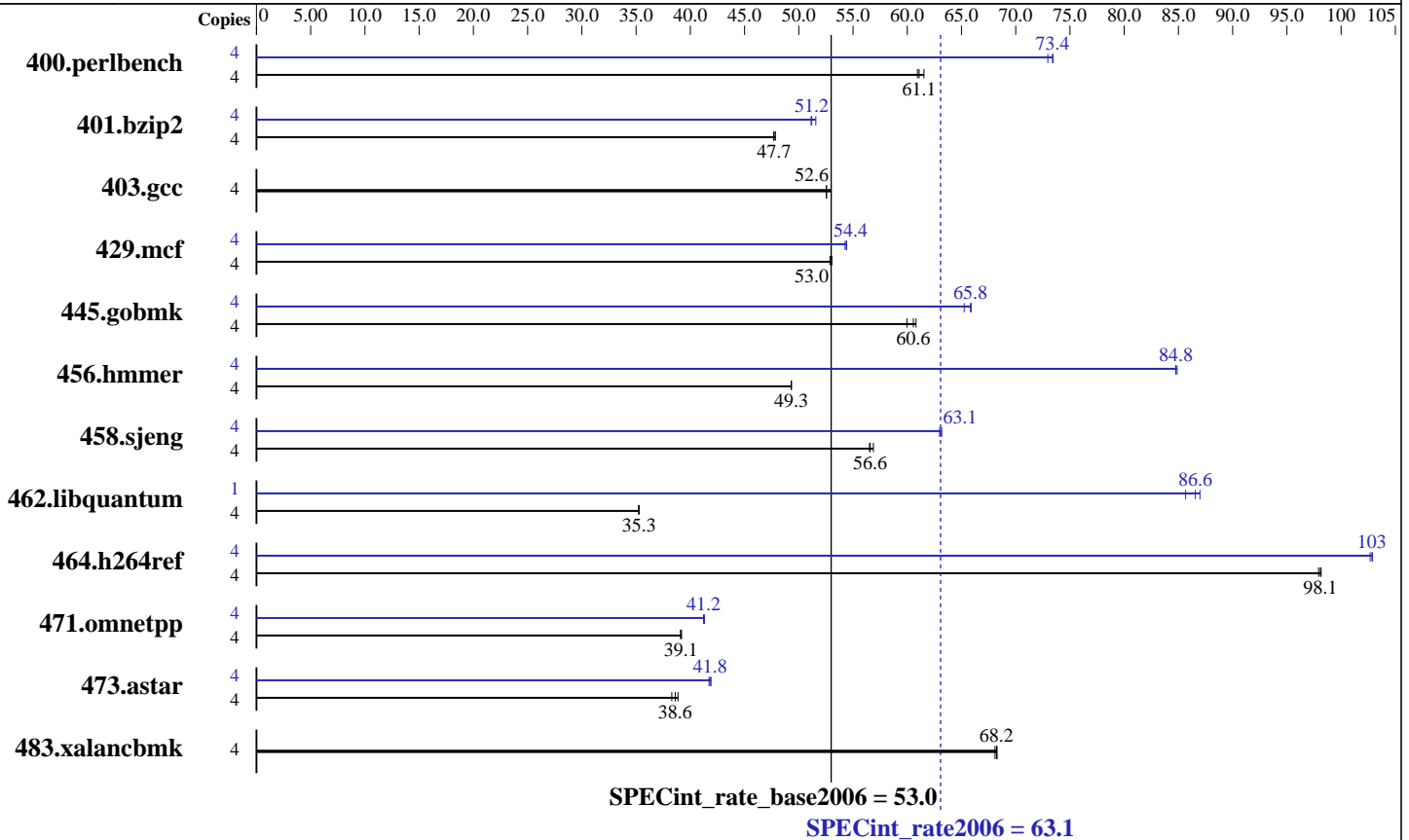
Test sponsor: Itaotec

Tested by: Itaotec

Test date: Apr-2008

Hardware Availability: Dec-2007

Software Availability: Jan-2008



## Hardware

CPU Name: Intel Xeon E5410  
 CPU Characteristics:  
 CPU MHz: 2330  
 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: 12 MB I+D on chip per chip, 6 MB shared / 2 cores  
 L3 Cache: None  
 Other Cache: None  
 Memory: 16 GB (8 \* 2 GB PC2-5300 FBDIMM, CL-5-5-5, ECC)  
 Disk Subsystem: 1 x SCSI, 73GB, 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 Linux version 10.1 Build 20080112 Package ID: l\_cc\_p\_10.1.012  
 Auto Parallel: Yes  
 File System: ReiserFS  
 System State: Run Level 3 (multi-user)  
 Base Pointers: 32-bit  
 Peak Pointers: 32/64-bit  
 Other Software: Binutils 2.17.10.50  
 MicroQuill SmartHeap V8.1



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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	641	60.9	<b>640</b>	<b>61.1</b>	635	61.5	4	<b>532</b>	<b>73.4</b>	536	73.0	532	73.4
401.bzip2	4	809	47.7	<b>809</b>	<b>47.7</b>	807	47.8	4	755	51.1	749	51.6	<b>754</b>	<b>51.2</b>
403.gcc	4	608	53.0	613	52.5	<b>613</b>	<b>52.6</b>	4	608	53.0	613	52.5	<b>613</b>	<b>52.6</b>
429.mcf	4	688	53.0	<b>689</b>	<b>53.0</b>	690	52.9	4	672	54.3	<b>671</b>	<b>54.4</b>	670	54.4
445.gobmk	4	690	60.8	<b>693</b>	<b>60.6</b>	700	60.0	4	643	65.2	<b>637</b>	<b>65.8</b>	637	65.9
456.hammer	4	757	49.3	<b>757</b>	<b>49.3</b>	757	49.3	4	440	84.7	<b>440</b>	<b>84.8</b>	440	84.9
458.sjeng	4	856	56.5	851	56.9	<b>855</b>	<b>56.6</b>	4	<b>767</b>	<b>63.1</b>	769	63.0	766	63.2
462.libquantum	4	<b>2350</b>	<b>35.3</b>	2350	35.3	2352	35.2	1	242	85.7	<b>239</b>	<b>86.6</b>	238	87.0
464.h264ref	4	904	97.9	902	98.2	<b>902</b>	<b>98.1</b>	4	862	103	<b>861</b>	<b>103</b>	860	103
471.omnetpp	4	638	39.2	639	39.1	<b>639</b>	<b>39.1</b>	4	605	41.3	606	41.2	<b>606</b>	<b>41.2</b>
473.astar	4	<b>727</b>	<b>38.6</b>	722	38.9	733	38.3	4	673	41.7	<b>671</b>	<b>41.8</b>	670	41.9
483.xalancbmk	4	<b>405</b>	<b>68.2</b>	404	68.3	405	68.1	4	<b>405</b>	<b>68.2</b>	404	68.3	405	68.1

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

## Compiler Invocation Notes

OMP\_NUM\_THREADS set to number of cores  
KMP\_STACK\_SIZE set to 64M  
KMP\_AFFINITY set to physical,0

## Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run.  
'/usr/bin/taskset' used to bind benchmark copies to processors, except for 462.libquantum at peak.

## Platform Notes

BIOS configuration:  
Hardware Prefetch Enabled

## General Notes

This result was measured on the Servidor Itautec MX201.  
The Servidor Itautec MX201 and the Servidor Itautec MX221 are electronically equivalent.

## Base Compiler Invocation

C benchmarks:  
icc

Continued on next page



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## Base Compiler Invocation (Continued)

C++ benchmarks:  
icpc

## 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 -inline-calloc -opt-malloc-options=3  
C++ benchmarks:  
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs  
-L/opt/sh/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/10.1.012/bin/icc  
-L/opt/intel/cce/10.1.012/lib  
-I/opt/intel/cce/10.1.012/include  
456.hmmer: /opt/intel/cce/10.1.012/bin/icc  
-L/opt/intel/cce/10.1.012/lib  
-I/opt/intel/cce/10.1.012/include  
C++ benchmarks:  
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## Peak Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
401.bzip2: -DSPEC\_CPU\_LP64  
456.hmmer: -DSPEC\_CPU\_LP64  
462.libquantum: -DSPEC\_CPU\_LINUX  
483.xalancbmk: -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  
403.gcc: basepeak = yes  
429.mcf: -fast -prefetch  
445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo  
-no-prec-div -ansi-alias  
456.hmmer: -fast -unroll2 -ansi-alias -opt-multi-version-aggressive  
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/sh/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/sh/SmartHeap\_8.1/lib -lsmarheap  
483.xalancbmk: 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/Itautec-ic10.1-INT-intel64-linux-flags.html>

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

<http://www.spec.org/cpu2006/flags/Itautec-ic10.1-INT-intel64-linux-flags.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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