



# SPEC® CINT2006 Result

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## Itautec

## SPECint®\_rate2006 = 62.2

### Servidor Itautec LX211 (Intel Xeon E5430)

## SPECint\_rate\_base2006 = 52.1

CPU2006 license: 9001

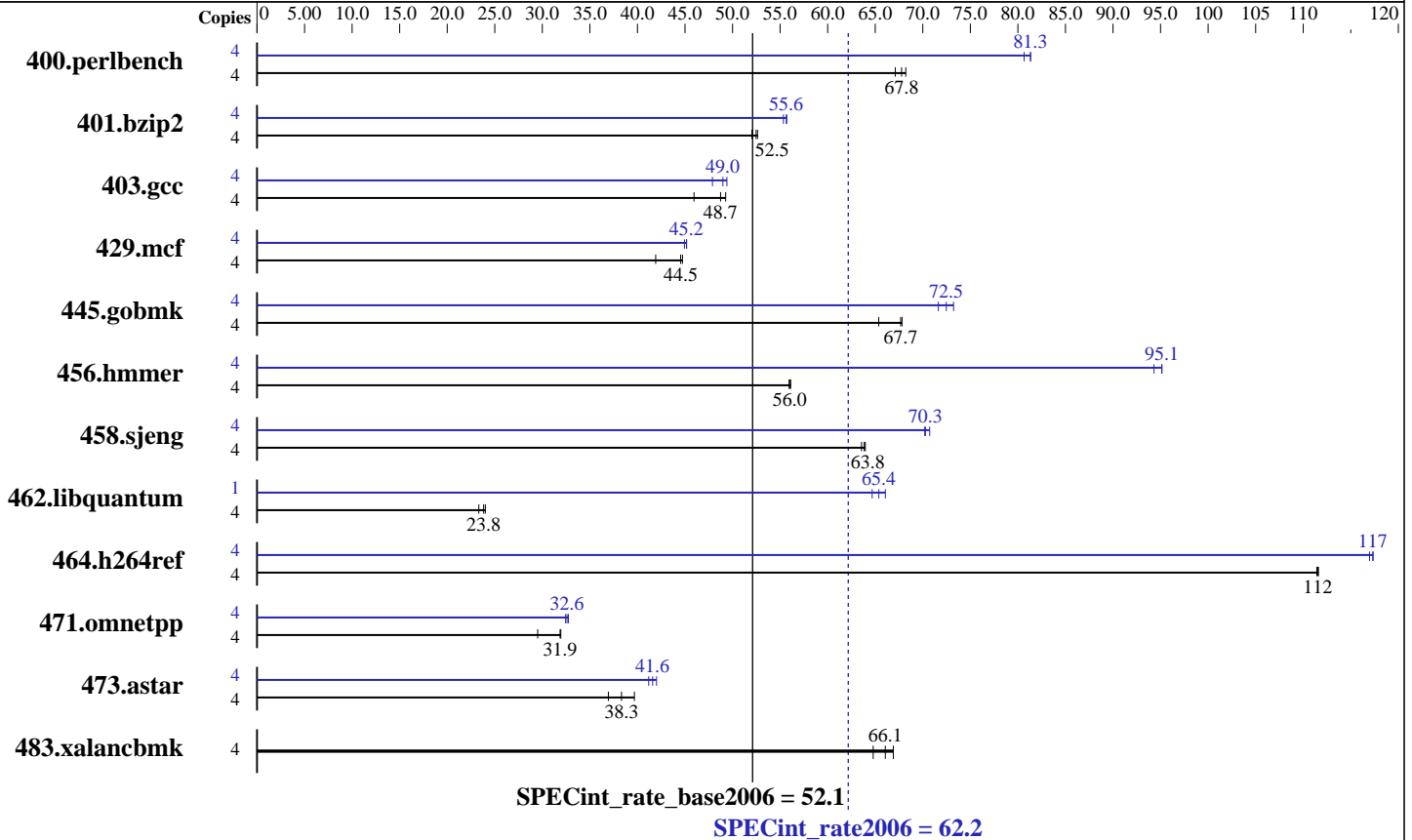
Test sponsor: Itautec

Tested by: Itautec

Test date: Apr-2008

Hardware Availability: Dec-2007

Software Availability: Jan-2008



### Hardware

CPU Name: Intel Xeon E5430  
 CPU Characteristics:  
 CPU MHz: 2660  
 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: 4 GB (4 \* 1 GB PC2-5300 FBDIMM, CL-5-5-5, ECC)  
 Disk Subsystem: 1 x SCSI, 73GB, 10000 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      | 582        | 67.1        | <u>577</u> | <b>67.8</b> | 573         | 68.2        | 4      | 485        | 80.7        | 480        | 81.3        | <b>481</b> | <b>81.3</b> |
| 401.bzip2      | 4      | 742        | 52.0        | 733        | 52.6        | <u>736</u>  | <b>52.5</b> | 4      | 697        | 55.3        | 693        | 55.7        | <b>694</b> | <b>55.6</b> |
| 403.gcc        | 4      | 701        | 45.9        | <b>661</b> | <b>48.7</b> | 653         | 49.3        | 4      | 652        | 49.4        | 672        | 47.9        | <b>657</b> | <b>49.0</b> |
| 429.mcf        | 4      | 870        | 41.9        | 815        | 44.7        | <b>819</b>  | <b>44.5</b> | 4      | <b>808</b> | <b>45.2</b> | 812        | 44.9        | 808        | 45.2        |
| 445.gobmk      | 4      | 642        | 65.4        | 619        | 67.8        | <b>620</b>  | <b>67.7</b> | 4      | <b>579</b> | <b>72.5</b> | 573        | 73.2        | 586        | 71.6        |
| 456.hammer     | 4      | 667        | 55.9        | <b>666</b> | <b>56.0</b> | 665         | 56.1        | 4      | 396        | 94.3        | 392        | 95.1        | <b>392</b> | <b>95.1</b> |
| 458.sjeng      | 4      | <b>758</b> | <b>63.8</b> | 761        | 63.6        | 757         | 64.0        | 4      | 684        | 70.7        | <b>689</b> | <b>70.3</b> | 689        | 70.2        |
| 462.libquantum | 4      | 3554       | 23.3        | 3452       | 24.0        | <b>3478</b> | <b>23.8</b> | 1      | <b>317</b> | <b>65.4</b> | 320        | 64.7        | 314        | 66.1        |
| 464.h264ref    | 4      | <b>794</b> | <b>112</b>  | 794        | 111         | 793         | 112         | 4      | 754        | 117         | <b>755</b> | <b>117</b>  | 757        | 117         |
| 471.omnetpp    | 4      | 847        | 29.5        | 783        | 31.9        | <b>784</b>  | <b>31.9</b> | 4      | 764        | 32.7        | 771        | 32.4        | <b>767</b> | <b>32.6</b> |
| 473.astar      | 4      | 760        | 36.9        | <b>733</b> | <b>38.3</b> | 708         | 39.7        | 4      | 669        | 42.0        | <b>675</b> | <b>41.6</b> | 682        | 41.2        |
| 483.xalancbmk  | 4      | 426        | 64.8        | <b>418</b> | <b>66.1</b> | 413         | 66.9        | 4      | 426        | 64.8        | <b>418</b> | <b>66.1</b> | 413        | 66.9        |

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

## 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 -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:  
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.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: -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.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

## Peak Other Flags

C benchmarks:

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## Peak Other Flags (Continued)

403.gcc: -Dalloca=\_alloca

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

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

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

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