



# SPEC<sup>®</sup> CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Itautec

## SPECint<sup>®</sup>\_rate2006 = 101

### Servidor Itautec LX211 (Intel Xeon E5405)

## SPECint\_rate\_base2006 = 79.4

CPU2006 license: 9001

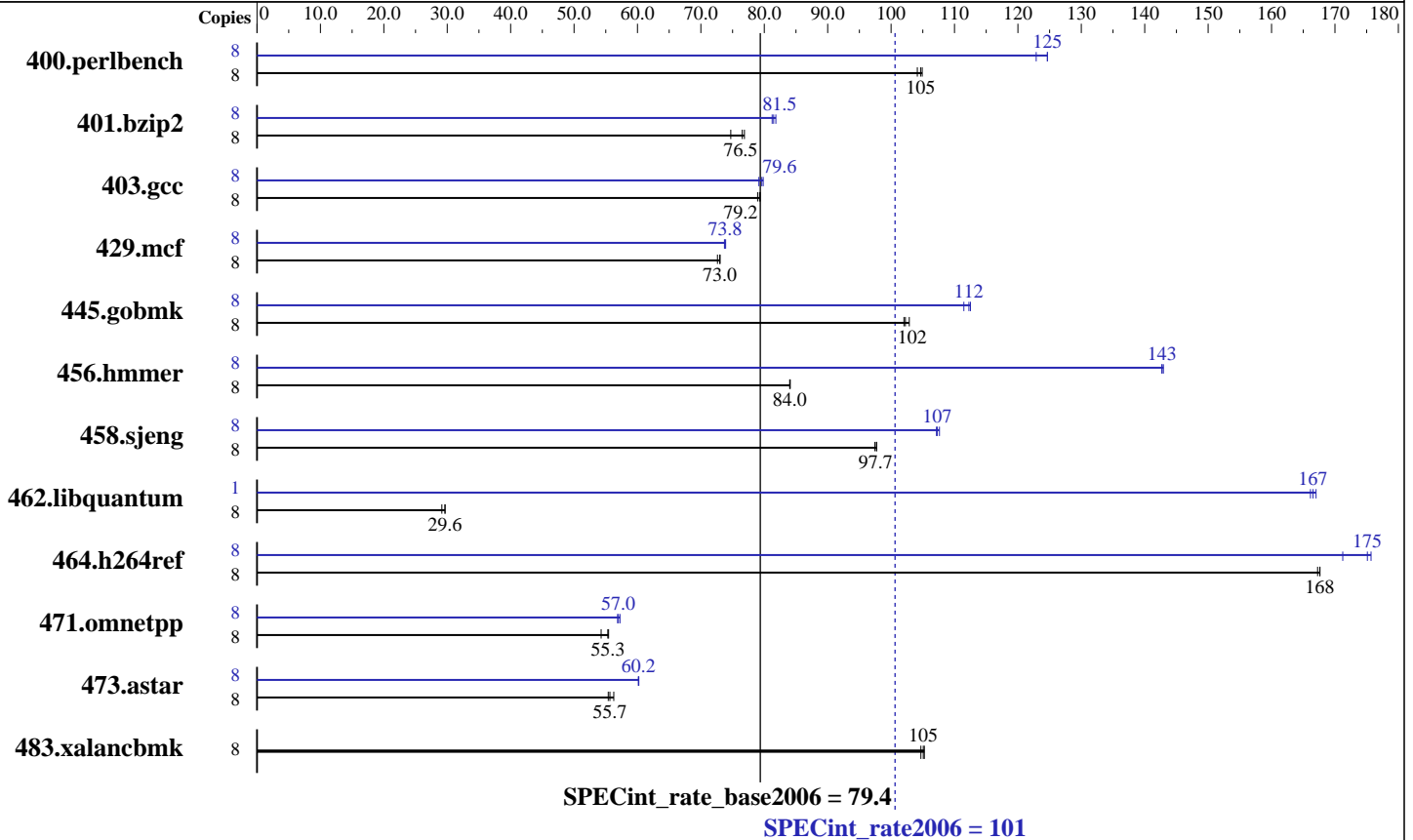
Test date: Apr-2008

Test sponsor: Itautec

Hardware Availability: Dec-2007

Tested by: Itautec

Software Availability: Jan-2008



### Hardware

CPU Name: Intel Xeon E5405  
 CPU Characteristics:  
 CPU MHz: 2000  
 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: 12 GB (6 \* 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



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itaotec

SPECint\_rate2006 = 101

Servidor Itaotec LX211 (Intel Xeon E5405)

SPECint\_rate\_base2006 = 79.4

CPU2006 license: 9001  
Test sponsor: Itaotec  
Tested by: Itaotec

Test date: Apr-2008  
Hardware Availability: Dec-2007  
Software Availability: Jan-2008

## Results Table

Benchmark	Base						Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	8	<b>747</b>	<b>105</b>	745	105	751	104	8	636	123	627	125	<b>627</b>	<b>125</b>
401.bzip2	8	1033	74.7	<b>1009</b>	<b>76.5</b>	1004	76.9	8	950	81.2	<b>948</b>	<b>81.5</b>	943	81.8
403.gcc	8	<b>813</b>	<b>79.2</b>	812	79.3	816	78.9	8	807	79.8	<b>809</b>	<b>79.6</b>	814	79.1
429.mcf	8	1005	72.6	999	73.0	<b>1000</b>	<b>73.0</b>	8	987	73.9	990	73.7	<b>989</b>	<b>73.8</b>
445.gobmk	8	816	103	823	102	<b>821</b>	<b>102</b>	8	746	113	<b>747</b>	<b>112</b>	753	111
456.hammer	8	888	84.0	<b>888</b>	<b>84.0</b>	888	84.1	8	522	143	<b>523</b>	<b>143</b>	523	143
458.sjeng	8	991	97.7	993	97.4	<b>991</b>	<b>97.7</b>	8	903	107	899	108	<b>902</b>	<b>107</b>
462.libquantum	8	5686	29.2	5589	29.7	<b>5591</b>	<b>29.6</b>	1	<b>124</b>	<b>167</b>	125	166	124	167
464.h264ref	8	1058	167	1056	168	<b>1056</b>	<b>168</b>	8	<b>1011</b>	<b>175</b>	1034	171	1008	176
471.omnetpp	8	921	54.3	<b>904</b>	<b>55.3</b>	902	55.4	8	873	57.2	<b>877</b>	<b>57.0</b>	879	56.9
473.astar	8	1014	55.4	<b>1009</b>	<b>55.7</b>	998	56.3	8	934	60.1	<b>933</b>	<b>60.2</b>	933	60.2
483.xalancbmk	8	527	105	<b>525</b>	<b>105</b>	524	105	8	527	105	<b>525</b>	<b>105</b>	524	105

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



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itaotec

SPECint\_rate2006 = 101

Servidor Itaotec LX211 (Intel Xeon E5405)

SPECint\_rate\_base2006 = 79.4

CPU2006 license: 9001  
Test sponsor: Itaotec  
Tested by: Itaotec

Test date: Apr-2008  
Hardware Availability: Dec-2007  
Software Availability: Jan-2008

## 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.hmmmer: /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.hmmmer: -DSPEC\_CPU\_LP64  
462.libquantum: -DSPEC\_CPU\_LINUX

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

SPECint\_rate2006 = 101

Servidor Itautec LX211 (Intel Xeon E5405)

SPECint\_rate\_base2006 = 79.4

CPU2006 license: 9001  
Test sponsor: Itautec  
Tested by: Itautec

Test date: Apr-2008  
Hardware Availability: Dec-2007  
Software Availability: Jan-2008

## 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:

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itaotec

SPECint\_rate2006 = 101

Servidor Itaotec LX211 (Intel Xeon E5405)

SPECint\_rate\_base2006 = 79.4

CPU2006 license: 9001  
Test sponsor: Itaotec  
Tested by: Itaotec

Test date: Apr-2008  
Hardware Availability: Dec-2007  
Software Availability: Jan-2008

## 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>

SPEC and SPECint are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.0.1.  
Report generated on Tue Jul 22 16:55:58 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 29 April 2008.