



# SPEC<sup>®</sup> CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Itautec

## SPECint<sup>®</sup>\_rate2006 = 69.2

### Servidor Itautec MX203+ (Intel Xeon E5504)

## SPECint\_rate\_base2006 = 64.8

CPU2006 license: 9001

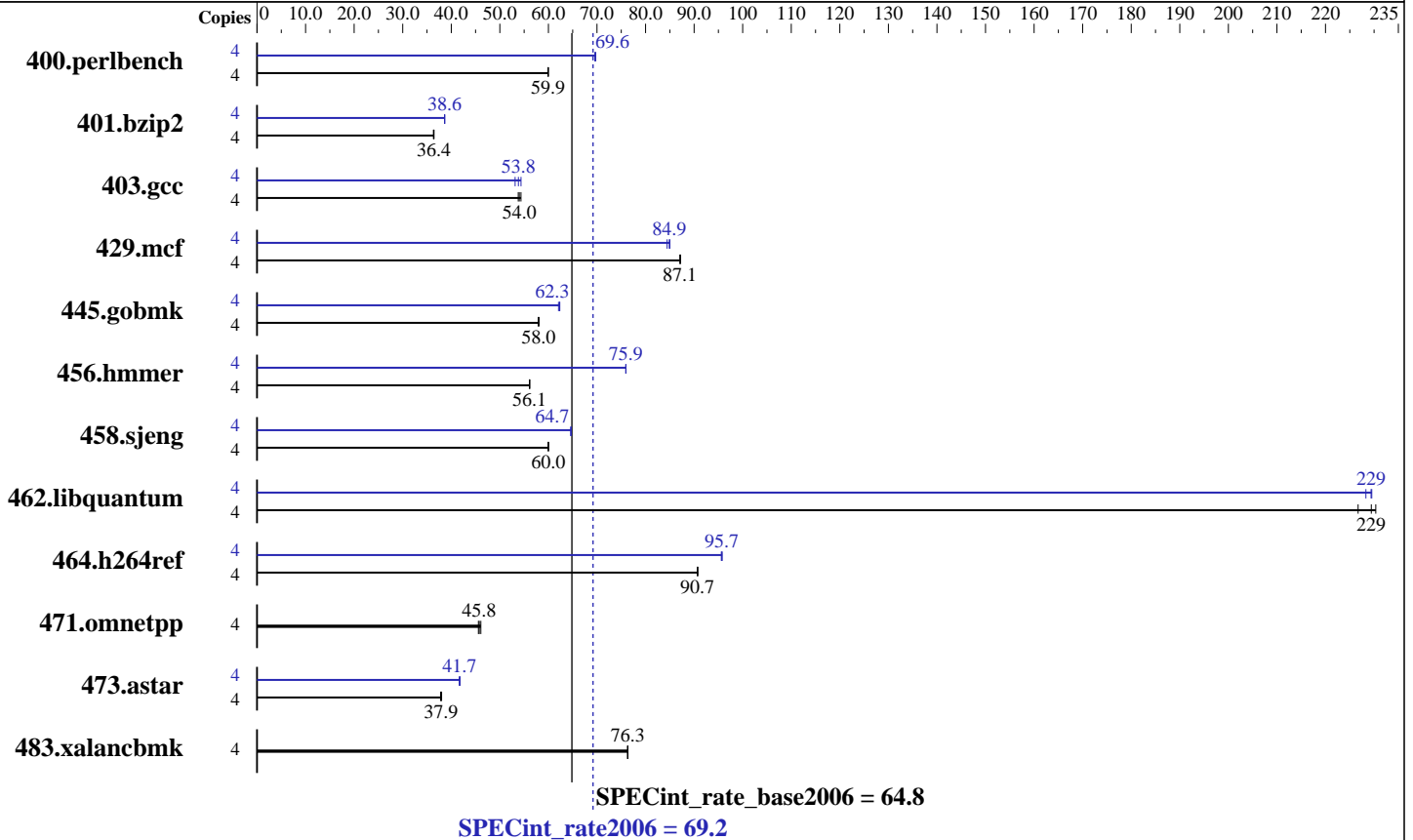
Test date: Oct-2009

Test sponsor: Itautec

Hardware Availability: Sep-2009

Tested by: Itautec

Software Availability: Feb-2009



### Hardware

CPU Name: Intel Xeon E5504  
 CPU Characteristics:  
 CPU MHz: 2000  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip  
 CPU(s) orderable: 1, 2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 256 KB I+D on chip per core  
 L3 Cache: 4 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 9 GB (9 x 1GB DDR3-1066, CL 7, ECC, running at 800MHz)  
 Disk Subsystem: 1 x 160 GB SATA-2, 7200RPM  
 Other Hardware: None

### Software

Operating System: SUSE Linux Enterprise Server 10 (x86\_64) SP2 with patch Linux kernel 20090119, Kernel 2.6.16.60-0.34-smp  
 Compiler: Intel C++ Compiler 11.0 for Linux Build 20090131 Package ID: l\_cproc\_p\_11.0.081  
 Auto Parallel: No  
 File System: ReiserFS  
 System State: Run level 3 (multi-user)  
 Base Pointers: 32-bit  
 Peak Pointers: 32/64-bit  
 Other Software: Microquill SmartHeap V8.1 Binutils 2.18.50.0.7.20080502



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itaotec

SPECint\_rate2006 = 69.2

Servidor Itaotec MX203+ (Intel Xeon E5504)

SPECint\_rate\_base2006 = 64.8

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

Test date: Oct-2009  
Hardware Availability: Sep-2009  
Software Availability: Feb-2009

## Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
400.perlbench	4	652	59.9	651	60.0	<u>652</u>	<u>59.9</u>	4	562	69.6	560	69.7	<u>561</u>	<u>69.6</u>		
401.bzip2	4	1060	36.4	<u>1060</u>	<u>36.4</u>	1063	36.3	4	998	38.7	<u>999</u>	<u>38.6</u>	1000	38.6		
403.gcc	4	592	54.3	599	53.8	<u>596</u>	<u>54.0</u>	4	592	54.4	606	53.1	<u>598</u>	<u>53.8</u>		
429.mcf	4	418	87.2	419	87.1	<u>419</u>	<u>87.1</u>	4	432	84.4	<u>430</u>	<u>84.9</u>	429	85.0		
445.gobmk	4	723	58.1	725	57.9	<u>724</u>	<u>58.0</u>	4	673	62.3	<u>673</u>	<u>62.3</u>	676	62.1		
456.hammer	4	665	56.2	<u>665</u>	<u>56.1</u>	665	56.1	4	<u>491</u>	<u>75.9</u>	491	75.9	491	76.0		
458.sjeng	4	<u>807</u>	<u>60.0</u>	806	60.0	807	59.9	4	748	64.7	749	64.6	<u>748</u>	<u>64.7</u>		
462.libquantum	4	360	230	<u>361</u>	<u>229</u>	366	227	4	363	228	361	230	<u>361</u>	<u>229</u>		
464.h264ref	4	976	90.7	<u>976</u>	<u>90.7</u>	975	90.8	4	926	95.6	<u>925</u>	<u>95.7</u>	924	95.8		
471.omnetpp	4	542	46.1	<u>546</u>	<u>45.8</u>	548	45.6	4	542	46.1	<u>546</u>	<u>45.8</u>	548	45.6		
473.astar	4	739	38.0	743	37.8	<u>741</u>	<u>37.9</u>	4	<u>673</u>	<u>41.7</u>	672	41.8	674	41.6		
483.xalanbmk	4	362	76.3	<u>362</u>	<u>76.3</u>	362	76.3	4	362	76.3	<u>362</u>	<u>76.3</u>	362	76.3		

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

## Submit Notes

The config file option 'submit' was used.  
numactl was used to bind copies to the cores

## General Notes

This result was measured on the Servidor Itaotec MX223+.  
The Servidor Itaotec MX203+ and the Servidor Itaotec MX223+ are electronically equivalent.  
'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run.

## Base Compiler Invocation

C benchmarks:  
icc  
  
C++ benchmarks:  
icpc

## Base Portability Flags

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



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itaotec

SPECint\_rate2006 = 69.2

Servidor Itaotec MX203+ (Intel Xeon E5504)

SPECint\_rate\_base2006 = 64.8

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

Test date: Oct-2009  
Hardware Availability: Sep-2009  
Software Availability: Feb-2009

## Base Optimization Flags

C benchmarks:

```
-xSSE4.2 -ipo -O3 -no-prec-div -static -inline-calloc  
-opt-malloc-options=3 -opt-prefetch
```

C++ benchmarks:

```
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs  
-L/home/richard/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/Compiler/11.0/081/bin/intel64/icc
```

```
456.hmmer: /opt/intel/Compiler/11.0/081/bin/intel64/icc
```

```
458.sjeng: /opt/intel/Compiler/11.0/081/bin/intel64/icc
```

C++ benchmarks (except as noted below):

icpc

```
473.astar: /opt/intel/Compiler/11.0/081/bin/intel64/icpc
```

## Peak Portability Flags

```
400.perlbench: -DSPEC_CPU_LINUX_IA32  
401.bzip2: -DSPEC_CPU_LP64  
456.hmmer: -DSPEC_CPU_LP64  
458.sjeng: -DSPEC_CPU_LP64  
462.libquantum: -DSPEC_CPU_LINUX  
473.astar: -DSPEC_CPU_LP64  
483.xalancbmk: -DSPEC_CPU_LINUX
```



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itaotec

SPECint\_rate2006 = 69.2

Servidor Itaotec MX203+ (Intel Xeon E5504)

SPECint\_rate\_base2006 = 64.8

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

Test date: Oct-2009  
Hardware Availability: Sep-2009  
Software Availability: Feb-2009

## Peak Optimization Flags

C benchmarks:

400.perlbench: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)  
-prof-use(pass 2) -ansi-alias -opt-prefetch

401.bzip2: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)  
-prof-use(pass 2) -opt-prefetch -ansi-alias -auto-ilp32

403.gcc: -xSSE4.2 -ipo -O3 -no-prec-div -static -inline-calloc  
-opt-malloc-options=3

429.mcf: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)  
-prof-use(pass 2) -opt-prefetch

445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2) -O2  
-ipo -no-prec-div -ansi-alias

456.hmmer: -xSSE4.2 -ipo -O3 -no-prec-div -static -unroll2  
-ansi-alias -auto-ilp32

458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)  
-prof-use(pass 2) -unroll4 -auto-ilp32

462.libquantum: -xSSE4.2 -ipo -O3 -no-prec-div -static  
-opt-malloc-options=3 -opt-prefetch

464.h264ref: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -static(pass 2)  
-prof-use(pass 2) -unroll2 -ansi-alias

C++ benchmarks:

471.omnetpp: basepeak = yes

473.astar: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)  
-ansi-alias -opt-ra-region-strategy=routine -auto-ilp32  
-Wl,-z,muldefs  
-L/home/richard/sh/SmartHeap\_8.1/lib -lsmartheap64

483.xalancbmk: basepeak = yes



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

SPECint\_rate2006 = 69.2

Servidor Itautec MX203+ (Intel Xeon E5504)

SPECint\_rate\_base2006 = 64.8

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

Test date: Oct-2009  
Hardware Availability: Sep-2009  
Software Availability: Feb-2009

## 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-Intel-ic11.0-int-linux64-revA.html>

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

<http://www.spec.org/cpu2006/flags/Itautec-Intel-ic11.0-int-linux64-revA.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 v1.1.  
Report generated on Wed Jul 23 04:53:05 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 10 November 2009.