



# SPEC® CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

**Itautec**

**SPECint®\_rate2006 = 432**

Servidor Itautec MX223+ (Intel Xeon X5680)

**SPECint\_rate\_base2006 = 416**

CPU2006 license: 9001

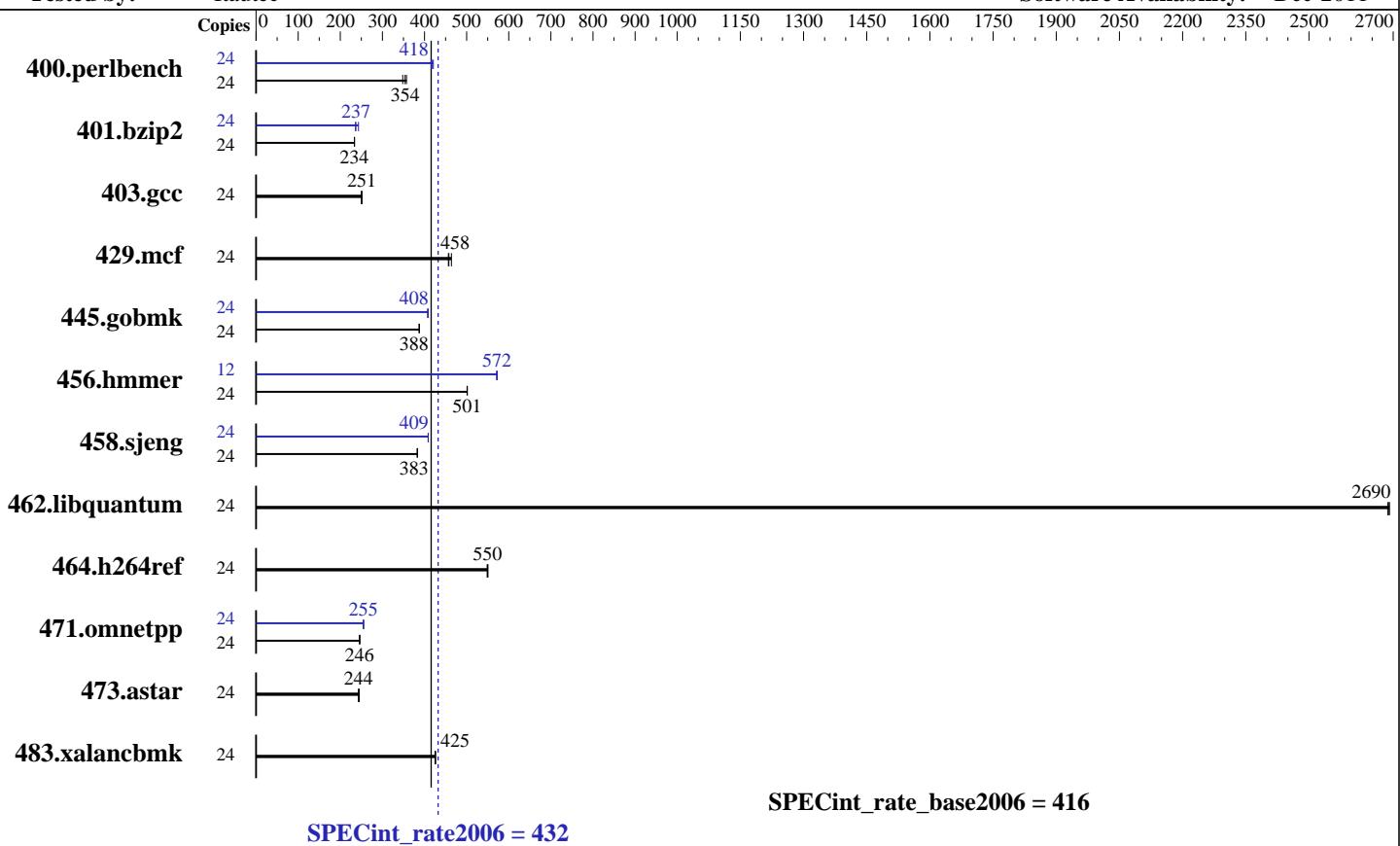
Test date: Mar-2012

Test sponsor: Itautec

Hardware Availability: Jul-2011

Tested by: Itautec

Software Availability: Dec-2011



## Hardware

CPU Name: Intel Xeon X5680  
 CPU Characteristics: Intel Turbo Boost Technology up to 3.60 GHz  
 CPU MHz: 3333  
 FPU: Integrated  
 CPU(s) enabled: 12 cores, 2 chips, 6 cores/chip, 2 threads/core  
 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: 12 MB I+D on chip per chip  
 Other Cache: None  
 Memory: 48 GB (12 x 4 GB 2Rx4 PC3-10600R-9, ECC)  
 Disk Subsystem: 2 x 146 GB, SAS, 15000 RPM, RAID 0  
 Other Hardware: None

## Software

Operating System: Red Hat Enterprise Linux Server Release 6.2, 2.6.32-220.el6.x86\_64  
 Compiler: C/C++: Version 12.1.0 of Intel Compiler XE Build 20111011  
 Auto Parallel: No  
 File System: ext4  
 System State: Run level 3 (multi-user)  
 Base Pointers: 32-bit  
 Peak Pointers: 32/64-bit  
 Other Software: Microquill SmartHeap V8.1



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

Servidor Itautec MX223+ (Intel Xeon X5680)

**SPECint\_rate2006 = 432**

CPU2006 license: 9001

Test date: Mar-2012

Test sponsor: Itautec

Hardware Availability: Jul-2011

Tested by: Itautec

Software Availability: Dec-2011

## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	24	657	357	673	348	<b>663</b>	<b>354</b>	24	557	421	<b>560</b>	<b>418</b>	564	416
401.bzip2	24	992	233	991	234	<b>991</b>	<b>234</b>	24	952	243	981	236	<b>978</b>	<b>237</b>
403.gcc	24	769	251	<b>770</b>	<b>251</b>	772	250	24	769	251	<b>770</b>	<b>251</b>	772	250
429.mcf	24	<b>478</b>	<b>458</b>	472	464	479	457	24	<b>478</b>	<b>458</b>	472	464	479	457
445.gobmk	24	<b>649</b>	<b>388</b>	649	388	651	387	24	<b>617</b>	<b>408</b>	618	407	616	409
456.hammer	24	447	501	<b>447</b>	<b>501</b>	447	501	12	<b>196</b>	<b>572</b>	196	571	196	572
458.sjeng	24	<b>758</b>	<b>383</b>	759	383	758	383	24	<b>710</b>	<b>409</b>	711	409	710	409
462.libquantum	24	185	2690	<b>185</b>	<b>2690</b>	185	2690	24	185	2690	<b>185</b>	<b>2690</b>	185	2690
464.h264ref	24	<b>966</b>	<b>550</b>	965	551	968	549	24	<b>966</b>	<b>550</b>	965	551	968	549
471.omnetpp	24	610	246	<b>610</b>	<b>246</b>	609	246	24	<b>588</b>	<b>255</b>	589	255	587	256
473.astar	24	<b>691</b>	<b>244</b>	693	243	688	245	24	<b>691</b>	<b>244</b>	693	243	688	245
483.xalancbmk	24	<b>390</b>	<b>425</b>	388	427	390	425	24	<b>390</b>	<b>425</b>	388	427	390	425

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

## Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run.  
Large pages were not enabled for this run

## Platform Notes

Data Reuse disabled in BIOS.  
DCU Prefetcher disabled in BIOS.

## General Notes

This result was measured on the Servidor Itautec MX224.  
The Servidor Itautec MX203+, Servidor Itautec MX223+ and the Servidor Itautec MX224  
are electronically equivalent.

## Base Compiler Invocation

C benchmarks:  
icc -m32

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

Servidor Itautec MX223+ (Intel Xeon X5680)

**SPECint\_rate2006 = 432**

CPU2006 license: 9001

Test sponsor: Itautec

Tested by: Itautec

Test date: Mar-2012

Hardware Availability: Jul-2011

Software Availability: Dec-2011

## Base Compiler Invocation (Continued)

C++ benchmarks:

`icpc -m32`

## Base Portability Flags

400.perlbench: `-DSPEC_CPU_LINUX_IA32`

462.libquantum: `-DSPEC_CPU_LINUX`

483.xalancbmk: `-DSPEC_CPU_LINUX`

## Base Optimization Flags

C benchmarks:

`-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -opt-mem-layout-trans=3`

C++ benchmarks:

`-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -opt-mem-layout-trans=3  
-Wl,-z,muldefs -L/home/rcaaneca/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 -m32`

400.perlbench: `icc -m64`

401.bzip2: `icc -m64`

456.hmmer: `icc -m64`

458.sjeng: `icc -m64`

C++ benchmarks:

`icpc -m32`



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

SPECint\_rate2006 = 432

Servidor Itautec MX223+ (Intel Xeon X5680)

SPECint\_rate\_base2006 = 416

CPU2006 license: 9001

Test date: Mar-2012

Test sponsor: Itautec

Hardware Availability: Jul-2011

Tested by: Itautec

Software Availability: Dec-2011

## Peak Portability Flags

400.perlbench: -DSPEC\_CPU\_LP64 -DSPEC\_CPU\_LINUX\_X64  
401.bzip2: -DSPEC\_CPU\_LP64  
456.hmmer: -DSPEC\_CPU\_LP64  
458.sjeng: -DSPEC\_CPU\_LP64  
462.libquantum: -DSPEC\_CPU\_LINUX  
483.xalancbmk: -DSPEC\_CPU\_LINUX

## 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) -prof-use(pass 2)  
-B /usr/share/libhugetlbfs/ -Wl,-melf\_x86\_64 -Wl,-hugetlbfs-link=BDT  
  
401.bzip2: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)  
-opt-prefetch -auto-ilp32 -ansi-alias  
-B /usr/share/libhugetlbfs/ -Wl,-melf\_x86\_64 -Wl,-hugetlbfs-link=BDT  
  
403.gcc: basepeak = yes  
  
429.mcf: basepeak = yes  
  
445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2)  
-ansi-alias -auto-ilp32  
  
456.hmmer: -xSSE4.2 -ipo -O3 -no-prec-div -unroll12 -auto-ilp32  
-B /usr/share/libhugetlbfs/ -Wl,-melf\_x86\_64 -Wl,-hugetlbfs-link=BDT  
  
458.sjeng: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2)  
-O3(pass 2) -no-prec-div(pass 2) -prof-use(pass 2)  
-unroll14 -auto-ilp32  
-B /usr/share/libhugetlbfs/ -Wl,-melf\_x86\_64 -Wl,-hugetlbfs-link=BDT  
  
462.libquantum: basepeak = yes  
  
464.h264ref: basepeak = yes

C++ benchmarks:

471.omnetpp: -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=block -Wl,-z,muldefs  
-L/home/rkaneca/sh/SmartHeap\_8.1/lib -lsmartheap  
  
473.astar: basepeak = yes

Continued on next page



# SPEC CINT2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Itautec

Servidor Itautec MX223+ (Intel Xeon X5680)

**SPECint\_rate2006 = 432**

CPU2006 license: 9001

Test sponsor: Itautec

Tested by: Itautec

Test date: Mar-2012

Hardware Availability: Jul-2011

Software Availability: Dec-2011

## Peak Optimization Flags (Continued)

483.xalancbmk: basepeak = yes

## Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=\_\_alloca

The flags files that were used to format this result can be browsed at

[http://www.spec.org/cpu2006/flags/Itautec-Servidor\\_Itautec-Intel-Linux-Platform.html](http://www.spec.org/cpu2006/flags/Itautec-Servidor_Itautec-Intel-Linux-Platform.html)  
<http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.html>

You can also download the XML flags sources by saving the following links:

[http://www.spec.org/cpu2006/flags/Itautec-Servidor\\_Itautec-Intel-Linux-Platform.xml](http://www.spec.org/cpu2006/flags/Itautec-Servidor_Itautec-Intel-Linux-Platform.xml)  
<http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.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 v1.2.

Report generated on Thu Jul 24 07:35:09 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 10 April 2012.