



# SPEC<sup>®</sup> CINT2006 Result

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Itaotec

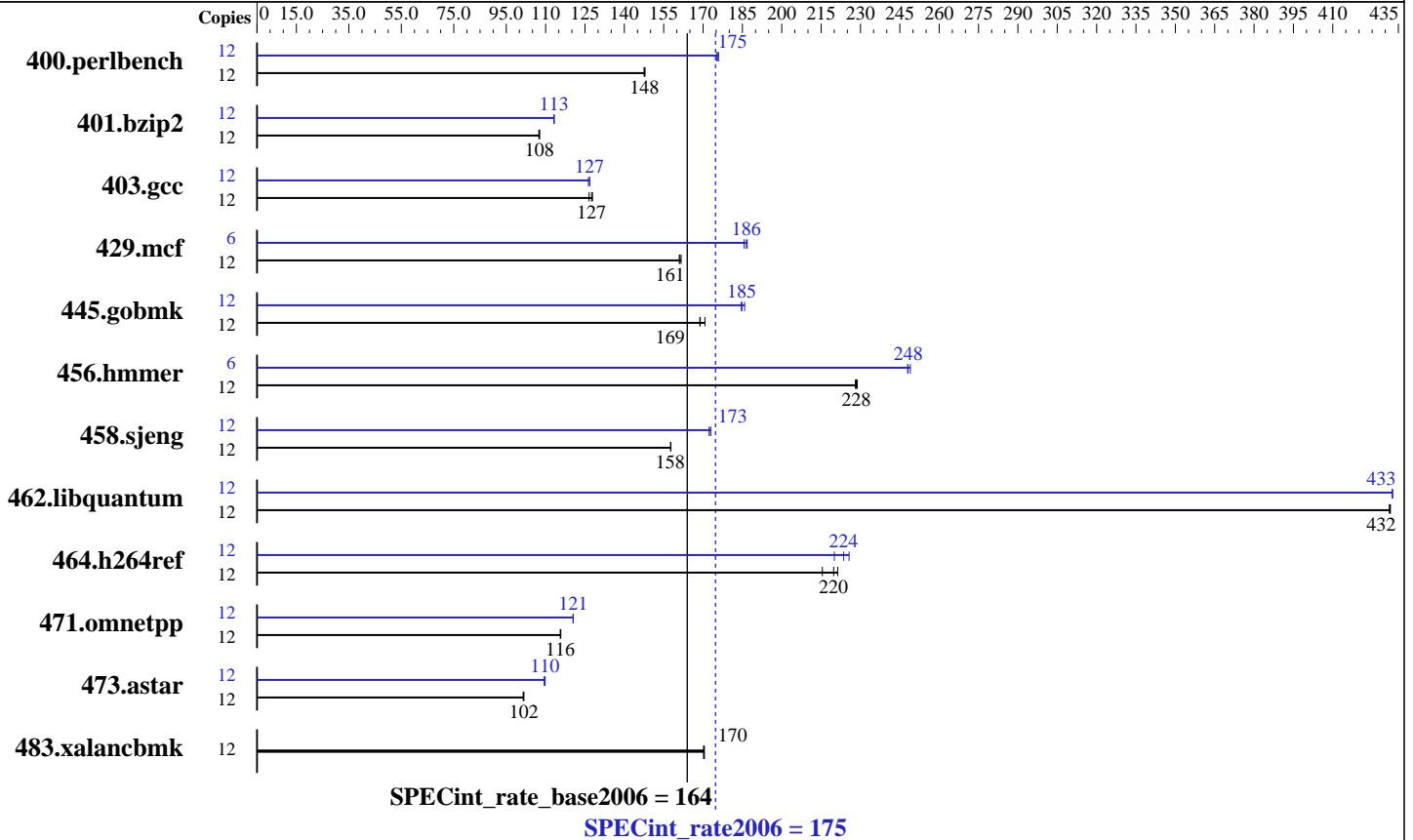
SPECint<sup>®</sup>\_rate2006 = 175

Servidor Itaotec MX203 (Intel Xeon X5650)

SPECint\_rate\_base2006 = 164

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

Test date: May-2010  
Hardware Availability: Apr-2010  
Software Availability: Apr-2010



## Hardware

CPU Name: Intel Xeon X5650  
 CPU Characteristics: Intel Turbo Boost Technology up to 3.06 GHz  
 CPU MHz: 2667  
 FPU: Integrated  
 CPU(s) enabled: 6 cores, 1 chip, 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: 24 GB (6 x 4GB, DDR3-1333, Dual Rank, CL 9, ECC)  
 Disk Subsystem: 1 x 160 GB SATA-2, 7200 RPM  
 Other Hardware: None

## Software

Operating System: SUSE Linux Enterprise Server 11 (x86\_64), Kernel 2.6.27.19-5-smp  
 Compiler: Intel C++ Professional Compiler 11.1 for Linux Build 20100414 Package ID: l\_cproc\_p\_11.1.072  
 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



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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	12	793	148	795	148	<u>794</u>	<u>148</u>	12	666	176	<u>668</u>	<u>175</u>	669	175
401.bzip2	12	<u>1076</u>	<u>108</u>	1075	108	1078	107	12	1022	113	1023	113	<u>1023</u>	<u>113</u>
403.gcc	12	755	128	763	127	<u>758</u>	<u>127</u>	12	762	127	<u>762</u>	<u>127</u>	765	126
429.mcf	12	680	161	677	162	<u>679</u>	<u>161</u>	6	<u>293</u>	<u>186</u>	293	187	295	186
445.gobmk	12	<u>745</u>	<u>169</u>	746	169	737	171	12	677	186	<u>681</u>	<u>185</u>	682	185
456.hammer	12	491	228	489	229	<u>490</u>	<u>228</u>	6	226	248	<u>226</u>	<u>248</u>	225	249
458.sjeng	12	<u>921</u>	<u>158</u>	920	158	921	158	12	<u>840</u>	<u>173</u>	843	172	840	173
462.libquantum	12	<u>576</u>	<u>432</u>	576	432	576	432	12	<u>575</u>	<u>433</u>	575	433	574	433
464.h264ref	12	1232	215	1200	221	<u>1208</u>	<u>220</u>	12	<u>1188</u>	<u>224</u>	1177	226	1207	220
471.omnetpp	12	649	116	648	116	<u>649</u>	<u>116</u>	12	622	121	<u>622</u>	<u>121</u>	623	120
473.astar	12	830	101	828	102	<u>829</u>	<u>102</u>	12	767	110	<u>768</u>	<u>110</u>	770	109
483.xalancbmk	12	486	170	487	170	<u>486</u>	<u>170</u>	12	486	170	487	170	<u>486</u>	<u>170</u>

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.

## General Notes

This result was measured on the Servidor Itaotec MX223.  
The Servidor Itaotec MX223 and the Servidor Itaotec MX203 are electronically equivalent.

## Base Compiler Invocation

C benchmarks:  
icc -m32

C++ benchmarks:  
icpc -m32



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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:  
-xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch  
C++ benchmarks:  
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -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 -m32  
401.bzip2: icc -m64  
456.hmmer: icc -m64  
458.sjeng: icc -m64  
462.libquantum: icc -m64  
C++ benchmarks (except as noted below):  
icpc -m32  
473.astar: icpc -m64

## Peak Portability Flags

400.perlbench: -DSPEC\_CPU\_LINUX\_IA32  
401.bzip2: -DSPEC\_CPU\_LP64

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## Peak Portability Flags (Continued)

456.hmmcr: -DSPEC\_CPU\_LP64  
458.sjeng: -DSPEC\_CPU\_LP64  
462.libquantum: -DSPEC\_CPU\_LP64 -DSPEC\_CPU\_LINUX  
473.astar: -DSPEC\_CPU\_LP64  
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) -static(pass 2)  
-prof-use(pass 2) -ansi-alias  
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  
429.mcf: -xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch  
445.gobmk: -xSSE4.2(pass 2) -prof-gen(pass 1) -prof-use(pass 2) -O2  
-ipo -no-prec-div -ansi-alias  
456.hmmcr: -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 -auto-ilp32  
-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: -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/opt/sh/SmartHeap\_8.1/lib -lsmartheap  
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 -Wl,-z,muldefs

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## Peak Optimization Flags (Continued)

473.astar (continued):

-L/opt/sh/SmartHeap\_8.1/lib -lsmartheap64

483.xalancbmk: basepeak = yes

## 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/Itaotec-Intel-ic11.1-linux64-revE.html>

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

<http://www.spec.org/cpu2006/flags/Itaotec-Intel-ic11.1-linux64-revE.xml>

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

Tested with SPEC CPU2006 v1.1.

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