



# SPEC® CINT2006 Result

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## ACTION S.A.

ACTINA SOLAR 202 X2 (Intel Xeon processor E5310, 1.60GHz)

**SPECint®\_rate2006 = 33.3**

**SPECint\_rate\_base2006 = 30.8**

CPU2006 license: 3388

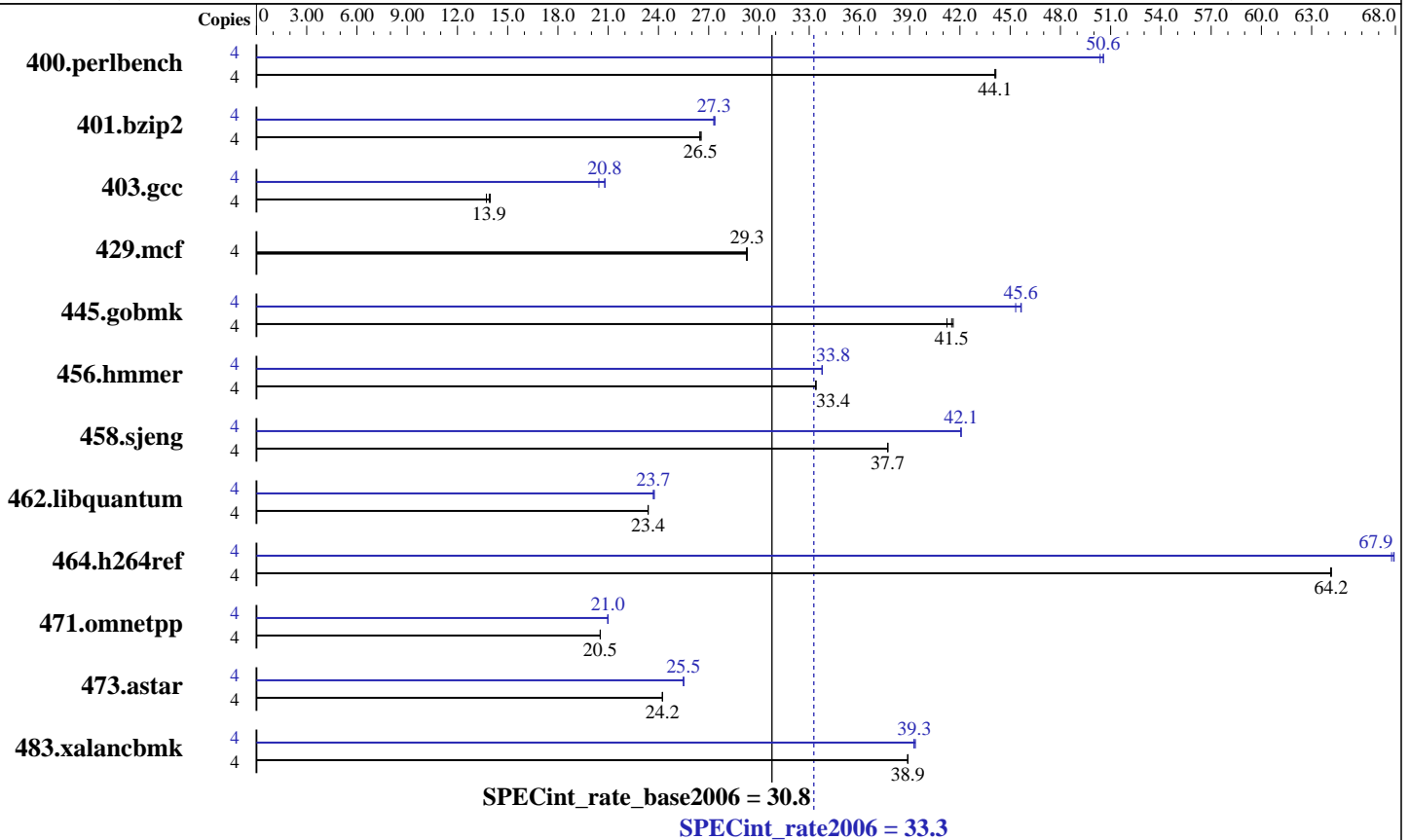
Test sponsor: ACTION S.A.

Tested by: ACTION S.A.

Test date: Sep-2007

Hardware Availability: Aug-2007

Software Availability: Jun-2007



### Hardware

CPU Name: Intel Xeon E5310  
 CPU Characteristics: 1066 MHz system bus  
 CPU MHz: 1600  
 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: 8 MB I+D on chip per chip, 4 MB shared / 2 cores  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8 GB (8 x 1 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)  
 Disk Subsystem: 160 GB SATA, 7200rpm  
 Other Hardware: None

### Software

Operating System: Windows 2003 Server Enterprise Edition Service Pack 1  
 Compiler: Intel C++ Compiler for IA32 version 10.0  
 Build 20070426 Package ID: W\_CC\_P\_10.0.025  
 Microsoft Visual Studio .Net 2003 (for libraries)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32-bit  
 Peak Pointers: 32-bit  
 Other Software: SmartHeap Library Version 8.0



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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	<b>886</b>	<b>44.1</b>	886	44.1	885	44.1	4	<b>773</b>	<b>50.6</b>	773	50.6	776	50.4
401.bzip2	4	<b>1457</b>	<b>26.5</b>	1458	26.5	1454	26.6	4	1413	27.3	1410	27.4	<b>1413</b>	<b>27.3</b>
403.gcc	4	2306	14.0	<b>2317</b>	<b>13.9</b>	2346	13.7	4	1547	20.8	<b>1549</b>	<b>20.8</b>	1575	20.4
429.mcf	4	1245	29.3	1247	29.3	<b>1245</b>	<b>29.3</b>	4	1245	29.3	1247	29.3	<b>1245</b>	<b>29.3</b>
445.gobmk	4	<b>1011</b>	<b>41.5</b>	1009	41.6	1018	41.2	4	<b>919</b>	<b>45.6</b>	919	45.7	926	45.3
456.hammer	4	1117	33.4	1118	33.4	<b>1117</b>	<b>33.4</b>	4	1105	33.8	1105	33.8	<b>1105</b>	<b>33.8</b>
458.sjeng	4	<b>1284</b>	<b>37.7</b>	1284	37.7	1284	37.7	4	1151	42.1	<b>1151</b>	<b>42.1</b>	1151	42.1
462.libquantum	4	3544	23.4	<b>3544</b>	<b>23.4</b>	3544	23.4	4	3489	23.8	3497	23.7	<b>3496</b>	<b>23.7</b>
464.h264ref	4	<b>1380</b>	<b>64.2</b>	1380	64.1	1379	64.2	4	1303	67.9	1306	67.8	<b>1304</b>	<b>67.9</b>
471.omnetpp	4	1218	20.5	1218	20.5	<b>1218</b>	<b>20.5</b>	4	<b>1191</b>	<b>21.0</b>	1191	21.0	1192	21.0
473.astar	4	<b>1158</b>	<b>24.2</b>	1159	24.2	1158	24.2	4	1101	25.5	<b>1101</b>	<b>25.5</b>	1101	25.5
483.xalancbmk	4	710	38.9	710	38.9	<b>710</b>	<b>38.9</b>	4	702	39.3	703	39.3	<b>703</b>	<b>39.3</b>

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

## General Notes

Product description located as of 8/2007:  
<http://www.actina.pl>  
Binaries were built on Windows XP Professional SP2  
  
Start command was used to bind processes to CPUs

## Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99  
  
C++ benchmarks:  
icl -Qvc7.1

## Portability Flags

403.gcc: -DSPEC\_CPU\_WIN32  
464.h264ref: -DSPEC\_CPU\_NO\_INTTYPES -DWIN32



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## Base Optimization Flags

C benchmarks:

-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:

-fast -Qcxx\_features /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

## Peak Optimization Flags

C benchmarks:

400.perlbench: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qansi-alias  
-Qprefetch /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

401.bzip2: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /F512000000  
shlw32m.lib -link /FORCE:MULTIPLE

403.gcc: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /F512000000  
-link /FORCE:MULTIPLE

429.mcf: basepeak = yes

445.gobmk: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -QxT -O2 -Qipo  
-Qprec\_div- -Qansi-alias /F512000000  
-link /FORCE:MULTIPLE

456.hmmer: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2  
-Qansi-alias /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE

458.sjeng: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll4  
/F512000000 shlw32m.lib -link /FORCE:MULTIPLE

462.libquantum: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll4  
-Ob0 -Qprefetch -Qopt-streaming-stores:always /F512000000  
shlw32m.lib -link /FORCE:MULTIPLE

464.h264ref: Same as 456.hmmer

C++ benchmarks:

-Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qansi-alias  
-Qcxx\_features /F512000000 shlw32m.lib  
-link /FORCE:MULTIPLE



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## 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/Dell-Intel-ic10-ia32.html>

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

<http://www.spec.org/cpu2006/flags/Dell-Intel-ic10-ia32.xml>

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

Tested with SPEC CPU2006 v1.0.1.

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