



# SPEC<sup>®</sup> CINT2006 Result

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## ACTION S.A.

ACTINA SOLAR 202 X2 (Intel Xeon processor 5110, 1.60GHz)

SPECint<sup>®</sup>\_rate2006 = 19.9

SPECint\_rate\_base2006 = 18.4

CPU2006 license: 3388

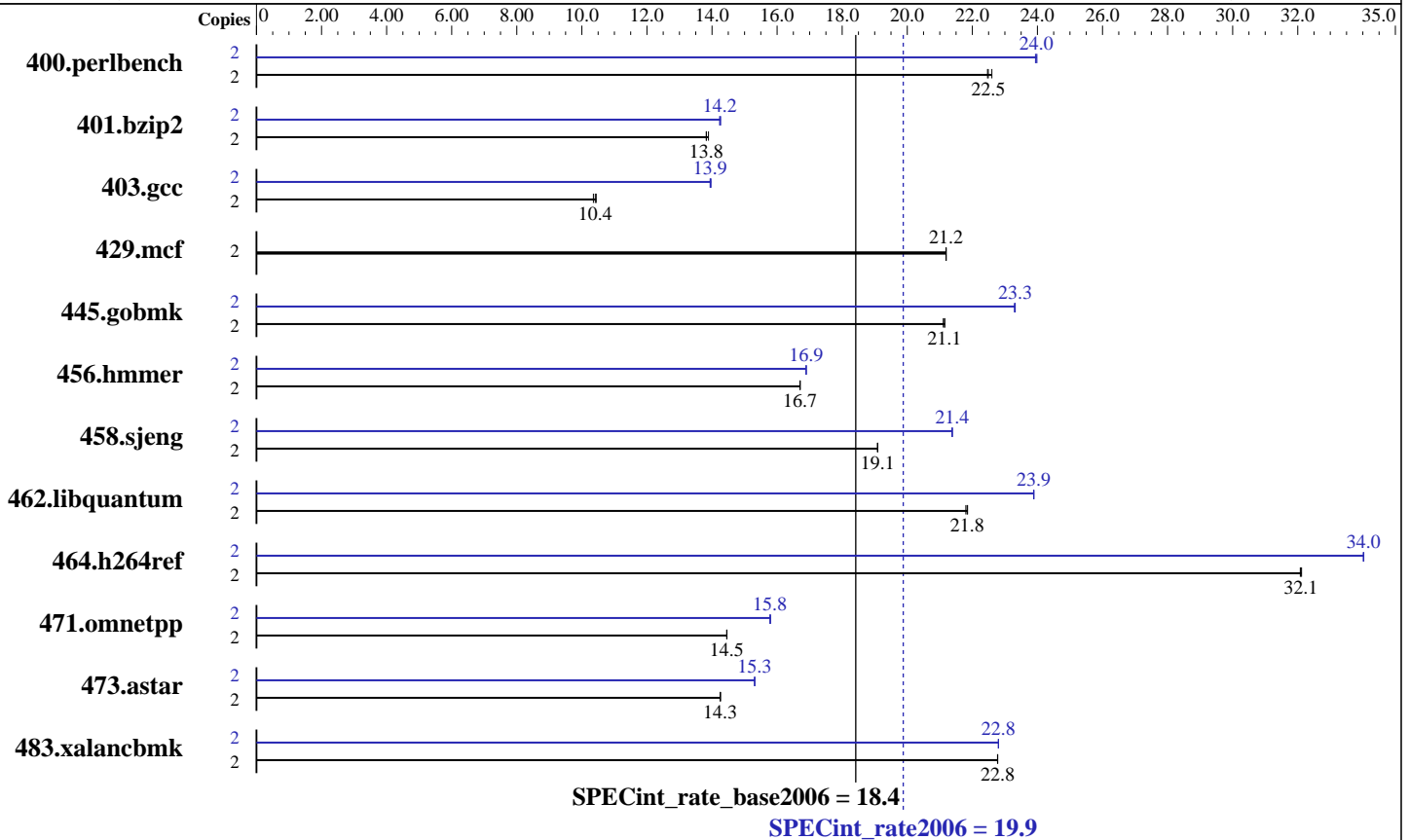
Test sponsor: ACTION S.A.

Tested by: ACTION S.A.

Test date: Aug-2007

Hardware Availability: Jun-2007

Software Availability: Jun-2007



### Hardware

CPU Name: Intel Xeon 5110  
 CPU Characteristics: 1066 MHz system bus  
 CPU MHz: 1600  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) orderable: 1,2 chips  
 Primary Cache: 32 KB I + 32 KB D on chip per core  
 Secondary Cache: 4 MB I+D on chip per chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 4 GB (4 x 1 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)  
 Disk Subsystem: 160 GB SATA, 7200 RPM  
 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	2	870	22.5	865	22.6	<b>869</b>	<b>22.5</b>	2	816	23.9	<b>815</b>	<b>24.0</b>	815	24.0
401.bzip2	2	1389	13.9	<b>1396</b>	<b>13.8</b>	1396	13.8	2	1353	14.3	1356	14.2	<b>1355</b>	<b>14.2</b>
403.gcc	2	<b>1546</b>	<b>10.4</b>	1542	10.4	1555	10.4	2	<b>1155</b>	<b>13.9</b>	1155	13.9	1152	14.0
429.mcf	2	<b>861</b>	<b>21.2</b>	861	21.2	860	21.2	2	<b>861</b>	<b>21.2</b>	861	21.2	860	21.2
445.gobmk	2	992	21.2	<b>992</b>	<b>21.1</b>	994	21.1	2	<b>900</b>	<b>23.3</b>	900	23.3	901	23.3
456.hammer	2	1117	16.7	<b>1117</b>	<b>16.7</b>	1117	16.7	2	1105	16.9	<b>1105</b>	<b>16.9</b>	1104	16.9
458.sjeng	2	1268	19.1	1268	19.1	<b>1268</b>	<b>19.1</b>	2	1132	21.4	1132	21.4	<b>1132</b>	<b>21.4</b>
462.libquantum	2	1901	21.8	<b>1897</b>	<b>21.8</b>	1896	21.9	2	1734	23.9	1735	23.9	<b>1735</b>	<b>23.9</b>
464.h264ref	2	1378	32.1	1380	32.1	<b>1379</b>	<b>32.1</b>	2	1301	34.0	1301	34.0	<b>1301</b>	<b>34.0</b>
471.omnetpp	2	864	14.5	<b>865</b>	<b>14.5</b>	865	14.5	2	<b>792</b>	<b>15.8</b>	792	15.8	791	15.8
473.astar	2	985	14.3	<b>985</b>	<b>14.3</b>	985	14.3	2	917	15.3	917	15.3	<b>917</b>	<b>15.3</b>
483.xalancbmk	2	<b>606</b>	<b>22.8</b>	606	22.8	606	22.8	2	<b>605</b>	<b>22.8</b>	605	22.8	605	22.8

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

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