# SPEC® CINT2006 Result

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## ACTION S.A.

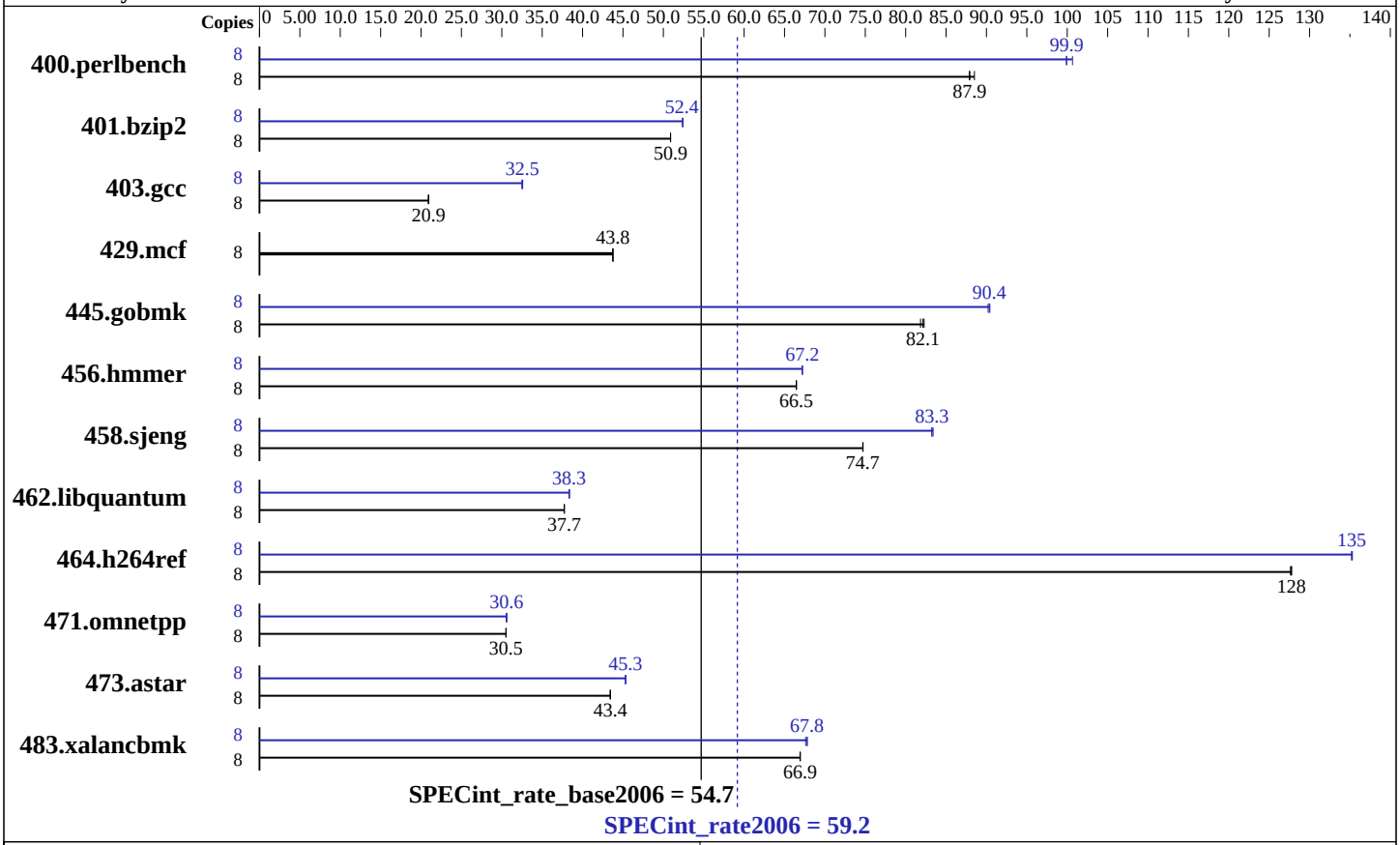
ACTINA SOLAR 202 X2 (Intel Xeon processor E5310, 1.60GHz)

**SPECint®_rate2006 = 59.2**

**SPECint_rate_base2006 = 54.7**

**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 E5310 |
| CPU Characteristics: | 1066 MHz system bus |
| CPU MHz: | 1600 |
| FPU: | Integrated |
| CPU(s) enabled: | 8 cores, 2 chips, 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: | 16 GB (8 x 2 GB 667MHz CL5 DDR2 FB-DIMM SDRAM) |
| Disk Subsystem: | 80 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 | 8 | 889 | 87.9 | 883 | 88.5 | **889** | **87.9** | 8 | 782 | 99.9 | 777 | 101 | **782** | **99.9** |
| 401.bzip2 | 8 | 1517 | 50.9 | **1517** | **50.9** | 1517 | 50.9 | 8 | **1474** | **52.4** | 1474 | 52.4 | 1473 | 52.4 |
| 403.gcc | 8 | 3078 | 20.9 | **3078** | **20.9** | 3076 | 20.9 | 8 | 1976 | 32.6 | **1979** | **32.5** | 1982 | 32.5 |
| 429.mcf | 8 | **1667** | **43.8** | 1667 | 43.8 | 1668 | 43.7 | 8 | **1667** | **43.8** | 1667 | 43.8 | 1668 | 43.7 |
| 445.gobmk | 8 | **1022** | **82.1** | 1025 | 81.8 | 1020 | 82.3 | 8 | 930 | 90.2 | 928 | 90.4 | **929** | **90.4** |
| 456.hmmer | 8 | 1123 | 66.5 | **1123** | **66.5** | 1123 | 66.5 | 8 | 1111 | 67.2 | 1111 | 67.2 | **1111** | **67.2** |
| 458.sjeng | 8 | **1296** | **74.7** | 1295 | 74.7 | 1296 | 74.7 | 8 | **1163** | **83.3** | 1161 | 83.4 | 1163 | 83.2 |
| 462.libquantum | 8 | 4393 | 37.7 | 4392 | 37.7 | **4393** | **37.7** | 8 | 4326 | 38.3 | 4318 | 38.4 | **4323** | **38.3** |
| 464.h264ref | 8 | 1386 | 128 | 1387 | 128 | **1386** | **128** | 8 | 1308 | 135 | **1309** | **135** | 1309 | 135 |
| 471.omnetpp | 8 | **1638** | **30.5** | 1639 | 30.5 | 1638 | 30.5 | 8 | **1633** | **30.6** | 1633 | 30.6 | 1637 | 30.5 |
| 473.astar | 8 | **1293** | **43.4** | 1293 | 43.4 | 1293 | 43.4 | 8 | 1240 | 45.3 | **1239** | **45.3** | 1239 | 45.3 |
| 483.xalancbmk | 8 | 825 | 66.9 | **825** | **66.9** | 824 | 67.0 | 8 | 814 | 67.8 | **814** | **67.8** | 816 | 67.6 |

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
```

## Base Compiler Invocation

C benchmarks:

```
icl -Qvc7.1 -Qc99
```

C++ benchmarks:

```
icl -Qvc7.1
```

## Base Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`

## Base Optimization Flags

C benchmarks:
```
-fast /F512000000 shlw32m.lib            -link /FORCE:MULTIPLE
```

C++ benchmarks:
```
-fast -Qcxx_features /F512000000 shlw32m.lib
            -link /FORCE:MULTIPLE
```

## Base Other Flags

C benchmarks:

403.gcc: `-Dalloca=_alloca`

## Peak Compiler Invocation

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

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

## Peak Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`
464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`

## 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`

Continued on next page

## Peak Optimization Flags (Continued)

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

## 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/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.

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