# SPEC® CINT2006 Result
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## ACTION S.A.

ACTINA SOLAR 200 X3 (Intel Xeon E5504)

SPECint®_rate2006 =  Not Run

SPECint_rate_base2006 =  126

| Benchmark | Copies | Result |
|---|---|---|
| 400.perlbench | 8 | 119 |
| 401.bzip2 | 8 | 70.2 |
| 403.gcc | 8 | 103 |
| 429.mcf | 8 | 168 |
| 445.gobmk | 8 | 114 |
| 456.hmmer | 8 | 111 |
| 458.sjeng | 8 | 119 |
| 462.libquantum | 8 | 433 |
| 464.h264ref | 8 | 179 |
| 471.omnetpp | 8 | 87.3 |
| 473.astar | 8 | 74.4 |
| 483.xalancbmk | 8 | 143 |

SPECint_rate_base2006 = 126

## Hardware

| | |
|---|---|
| CPU Name: | Intel Xeon E5504 |
| CPU Characteristics: | |
| CPU MHz: | 2000 |
| 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: | 256 KB I+D on chip per core |
| L3 Cache: | 4 MB I+D on chip per chip |
| Other Cache: | None |
| Memory: | 24 GB (6 x 4 GB DDR3, 1066 MHz, Reg, ECC, running at 800 |
| Disk Subsystem: | 147 GB SAS, 15000 RPM |
| Other Hardware: | None |

## Software

| | |
|---|---|
| Operating System: | SuSe Linux Enterprise Server 10 (x86_64) with SP2, kernel 2.6.16.60-0.21-smp |
| Compiler: | Intel C++ Compiler 11.0 for Linux Build 20080930 Package ID: l_cproc_p_11.0.066 |
| Auto Parallel: | No |
| File System: | ReiserFS |
| System State: | Run level 3 (multi-user) |
| Base Pointers: | 32-bit |
| Peak Pointers: | 32/64-bit |
| Other Software: | Binutils 2.18.50.0.7.20080502 Microquill SmartHeap V8.1 |

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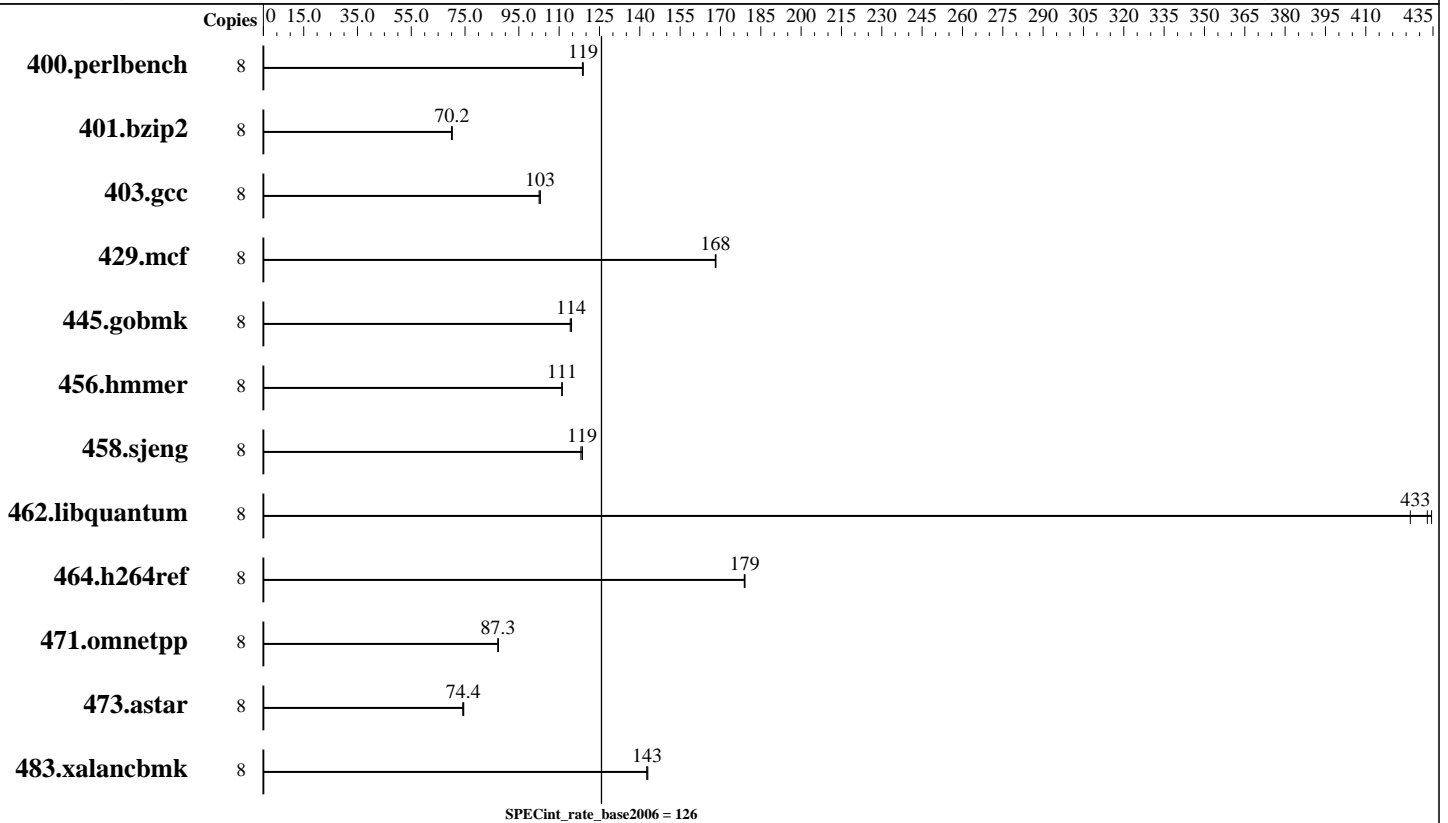
**CPU2006 license:** 9008
**Test sponsor:** ACTION S.A.
**Tested by:** ACTION S.A.

**Test date:**     Jul-2009
**Hardware Availability:** Apr-2009
**Software Availability:** Feb-2009

## Results Table

| Benchmark | Copies | Base Seconds | Base Ratio | Base Seconds | Base Ratio | Base Seconds | Base Ratio | Peak Copies | Peak Seconds | Peak Ratio | Peak Seconds | Peak Ratio | Peak Seconds | Peak Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 400.perlbench | 8 | 659 | 119 | **657** | **119** | 657 | 119 | | | | | | | |
| 401.bzip2 | 8 | **1100** | **70.2** | 1104 | 70.0 | 1100 | 70.2 | | | | | | | |
| 403.gcc | 8 | **626** | **103** | 628 | 103 | 625 | 103 | | | | | | | |
| 429.mcf | 8 | **434** | **168** | 434 | 168 | 433 | 168 | | | | | | | |
| 445.gobmk | 8 | 732 | 115 | **733** | **114** | 735 | 114 | | | | | | | |
| 456.hmmer | 8 | 672 | 111 | 672 | 111 | **672** | **111** | | | | | | | |
| 458.sjeng | 8 | 816 | 119 | **817** | **119** | 820 | 118 | | | | | | | |
| 462.libquantum | 8 | 382 | 434 | 389 | 427 | **383** | **433** | | | | | | | |
| 464.h264ref | 8 | 989 | 179 | **989** | **179** | 990 | 179 | | | | | | | |
| 471.omnetpp | 8 | **573** | **87.3** | 572 | 87.4 | 573 | 87.2 | | | | | | | |
| 473.astar | 8 | 754 | 74.5 | 757 | 74.1 | **755** | **74.4** | | | | | | | |
| 483.xalancbmk | 8 | 387 | 143 | **387** | **143** | 386 | 143 | | | | | | | |

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.

## General Notes

'numactl' was used to bind copies to the cores
'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

## Base Compiler Invocation

C benchmarks:
    icc

C++ benchmarks:
    icpc

## Base Portability Flags

    400.perlbench: -DSPEC_CPU_LINUX_IA32
    462.libquantum: -DSPEC_CPU_LINUX
    483.xalancbmk: -DSPEC_CPU_LINUX

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|---|---|---|---|
| **CPU2006 license:** 9008 | | **Test date:** | Jul-2009 |
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| **Tested by:** ACTION S.A. | | **Software Availability:** | Feb-2009 |

## Base Optimization Flags

C benchmarks:
```
-xSSE4.2 -ipo -O3 -no-prec-div -static -inline-calloc
-opt-malloc-options=3 -opt-prefetch
```

C++ benchmarks:
```
-xSSE4.2 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/spec/cpu2006.1.1/lib -lsmartheap
```

## Base 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/Intel-ic11.0-int-linux64-revA.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.xml

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Tested with SPEC CPU2006 v1.1.
Report generated on Wed Jul 23 03:26:42 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 18 August 2009.