



SPEC® CINT2006 Result

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ACTION S.A.

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

SPECint®_rate2006 = 19.9

SPECint_rate_base2006 = 18.4

CPU2006 license: 3388

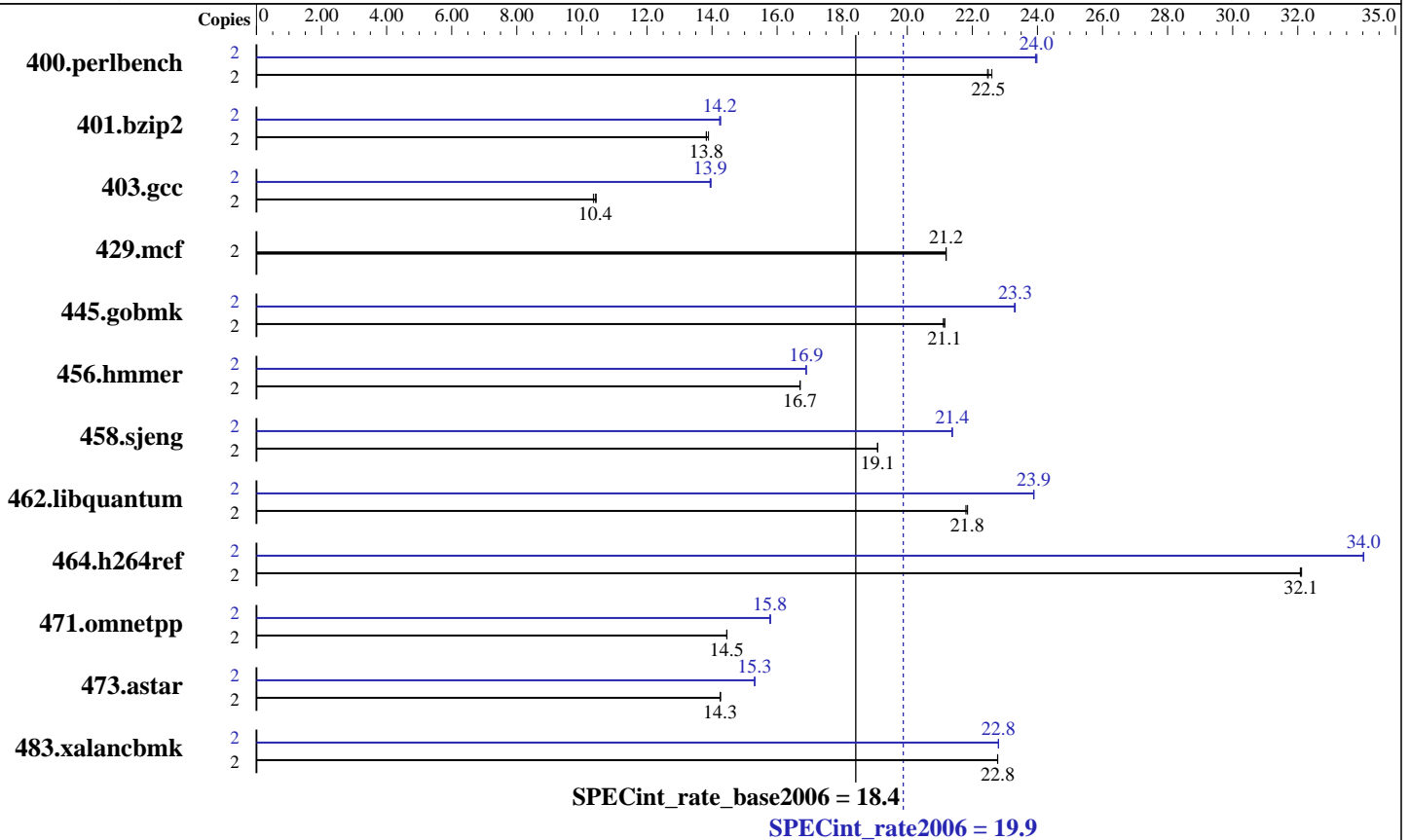
Test sponsor: ACTION S.A.

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 | 869 | 22.5 | 2 | 816 | 23.9 | 815 | 24.0 | 815 | 24.0 |
| 401.bzip2 | 2 | 1389 | 13.9 | 1396 | 13.8 | 1396 | 13.8 | 2 | 1353 | 14.3 | 1356 | 14.2 | 1355 | 14.2 |
| 403.gcc | 2 | 1546 | 10.4 | 1542 | 10.4 | 1555 | 10.4 | 2 | 1155 | 13.9 | 1155 | 13.9 | 1152 | 14.0 |
| 429.mcf | 2 | 861 | 21.2 | 861 | 21.2 | 860 | 21.2 | 2 | 861 | 21.2 | 861 | 21.2 | 860 | 21.2 |
| 445.gobmk | 2 | 992 | 21.2 | 992 | 21.1 | 994 | 21.1 | 2 | 900 | 23.3 | 900 | 23.3 | 901 | 23.3 |
| 456.hammer | 2 | 1117 | 16.7 | 1117 | 16.7 | 1117 | 16.7 | 2 | 1105 | 16.9 | 1105 | 16.9 | 1104 | 16.9 |
| 458.sjeng | 2 | 1268 | 19.1 | 1268 | 19.1 | 1268 | 19.1 | 2 | 1132 | 21.4 | 1132 | 21.4 | 1132 | 21.4 |
| 462.libquantum | 2 | 1901 | 21.8 | 1897 | 21.8 | 1896 | 21.9 | 2 | 1734 | 23.9 | 1735 | 23.9 | 1735 | 23.9 |
| 464.h264ref | 2 | 1378 | 32.1 | 1380 | 32.1 | 1379 | 32.1 | 2 | 1301 | 34.0 | 1301 | 34.0 | 1301 | 34.0 |
| 471.omnetpp | 2 | 864 | 14.5 | 865 | 14.5 | 865 | 14.5 | 2 | 792 | 15.8 | 792 | 15.8 | 791 | 15.8 |
| 473.astar | 2 | 985 | 14.3 | 985 | 14.3 | 985 | 14.3 | 2 | 917 | 15.3 | 917 | 15.3 | 917 | 15.3 |
| 483.xalancbmk | 2 | 606 | 22.8 | 606 | 22.8 | 606 | 22.8 | 2 | 605 | 22.8 | 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

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



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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`

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`

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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 other inquiries, please contact webmaster@spec.org.

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