



SPEC® CINT2006 Result

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ACTION S.A.

ACTINA SOLAR 222 X2 (Intel Xeon processor E5320, 1.86GHz)

SPECint®_rate2006 = 64.1

SPECint_rate_base2006 = 59.3

CPU2006 license: 3388

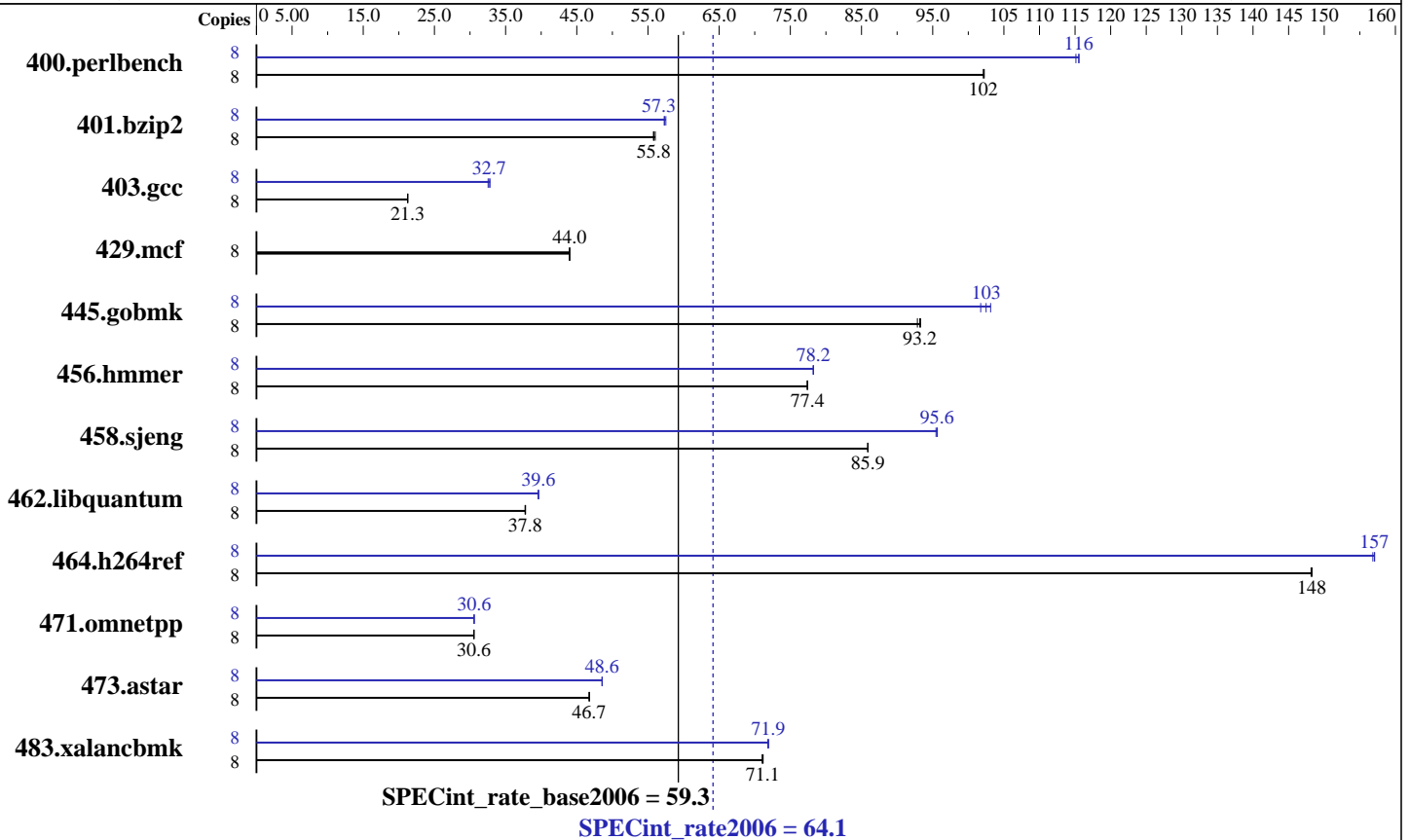
Test sponsor: ACTION S.A.

Tested by: ACTION S.A.

Test date: Sep-2007

Hardware Availability: Aug-2007

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon E5320
 CPU Characteristics: 1066 MHz system bus
 CPU MHz: 1860
 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: 147 GB SAS 15Krpm
 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	765	102	764	102	765	102	8	676	116	679	115	677	116
401.bzip2	8	1378	56.0	1383	55.8	1384	55.8	8	1347	57.3	1342	57.5	1348	57.3
403.gcc	8	3032	21.2	3030	21.3	3031	21.3	8	1971	32.7	1963	32.8	1979	32.5
429.mcf	8	1658	44.0	1658	44.0	1659	44.0	8	1658	44.0	1658	44.0	1659	44.0
445.gobmk	8	900	93.3	904	92.8	901	93.2	8	814	103	819	103	825	102
456.hammer	8	964	77.4	965	77.4	964	77.4	8	954	78.3	954	78.2	954	78.2
458.sjeng	8	1127	85.9	1127	85.9	1127	85.9	8	1012	95.6	1014	95.5	1012	95.7
462.libquantum	8	4392	37.7	4390	37.8	4385	37.8	8	4183	39.6	4188	39.6	4182	39.6
464.h264ref	8	1194	148	1195	148	1194	148	8	1127	157	1129	157	1127	157
471.omnetpp	8	1638	30.5	1637	30.6	1636	30.6	8	1635	30.6	1635	30.6	1636	30.6
473.astar	8	1202	46.7	1200	46.8	1202	46.7	8	1157	48.5	1156	48.6	1156	48.6
483.xalancbmk	8	776	71.2	777	71.0	776	71.1	8	767	71.9	768	71.9	768	71.9

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.

Tested with SPEC CPU2006 v1.0.1.

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