



SPEC[®] CINT2006 Result

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ACTION S.A.

SPECint[®]_rate2006 = 81.0

ACTINA SOLAR 222 X2 (Intel Xeon processor E5405, 2.0GHz)

SPECint_rate_base2006 = 74.7

CPU2006 license: 9008

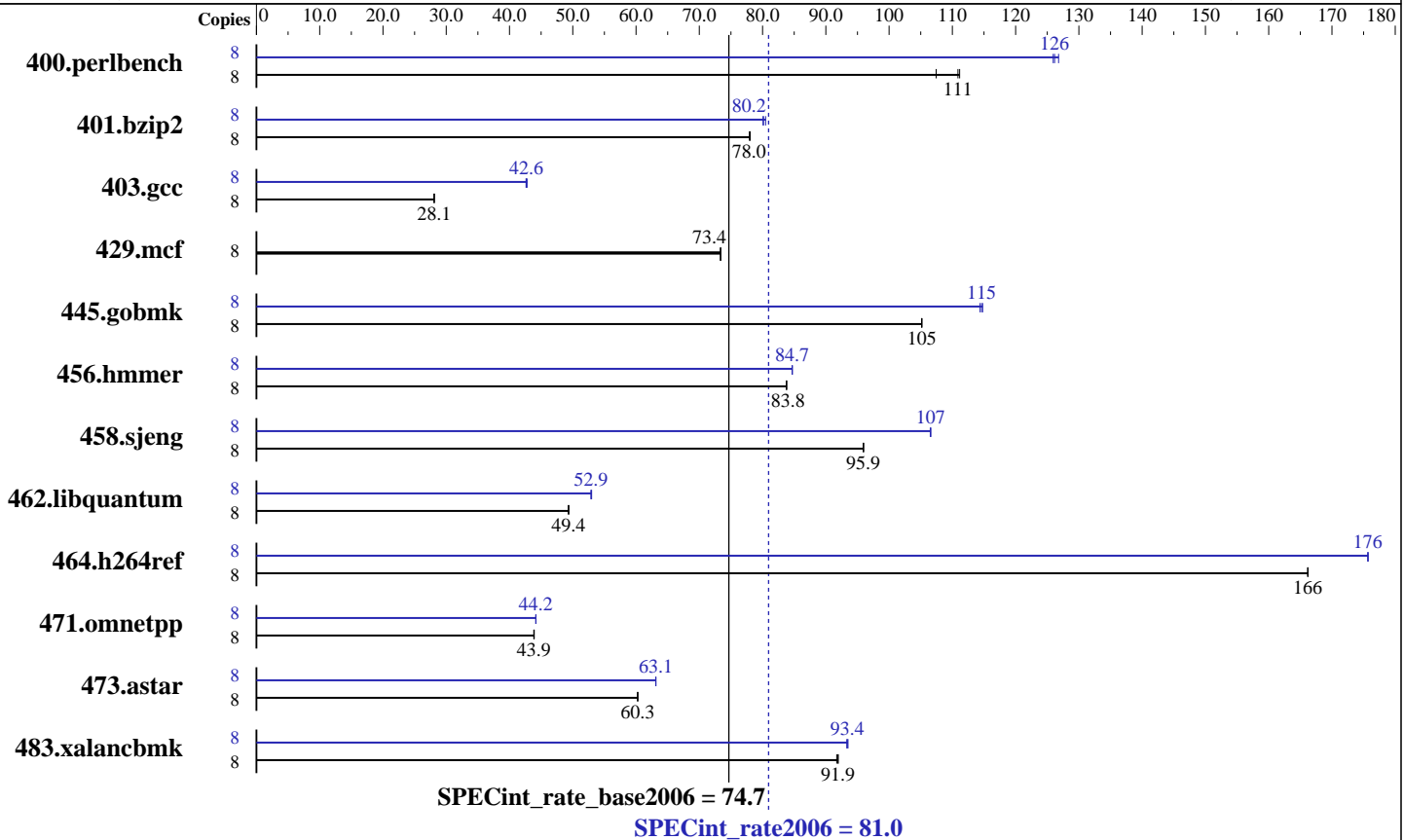
Test date: Jan-2008

Test sponsor: ACTION S.A.

Hardware Availability: Jan-2008

Tested by: ACTION S.A.

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon E5405
 CPU Characteristics: 2.0 GHz, 12MB L2, 1333MHz bus
 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: 12 MB I+D on chip per chip, 6 MB shared / 2 cores
 L3 Cache: None
 Other Cache: None
 Memory: 16 GB (8 x 2GB 667MHz CL5 DDR2 FB-DIMM SDRAM)
 Disk Subsystem: RAID 5 (5X 147GB SAS 15K RPM)
 Other Hardware: None

Software

Operating System: Windows 2003 Server Enterprise Edition (32-bit) 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	728	107	703	111	705	111	8	616	127	620	126	621	126
401.bzip2	8	989	78.0	991	77.9	990	78.0	8	959	80.5	963	80.2	964	80.1
403.gcc	8	2290	28.1	2291	28.1	2295	28.1	8	1510	42.6	1511	42.6	1505	42.8
429.mcf	8	995	73.4	994	73.4	995	73.4	8	995	73.4	994	73.4	995	73.4
445.gobmk	8	798	105	798	105	798	105	8	731	115	734	114	732	115
456.hammer	8	891	83.8	891	83.8	891	83.8	8	881	84.7	881	84.7	881	84.7
458.sjeng	8	1009	96.0	1009	95.9	1009	95.9	8	908	107	909	107	908	107
462.libquantum	8	3362	49.3	3359	49.4	3358	49.4	8	3133	52.9	3129	53.0	3134	52.9
464.h264ref	8	1065	166	1065	166	1065	166	8	1008	176	1008	176	1008	176
471.omnetpp	8	1140	43.9	1140	43.8	1139	43.9	8	1132	44.2	1132	44.2	1132	44.2
473.astar	8	932	60.3	932	60.3	932	60.3	8	890	63.1	889	63.1	890	63.1
483.xalancbmk	8	600	91.9	600	91.9	602	91.7	8	592	93.3	591	93.4	590	93.5

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

Product description located as of 1/2008:

<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.

Report generated on Tue Jul 14 11:55:23 2009 by SPEC CPU2006 PS/PDF formatter v6323.