SPEC® CINT2006 Result

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ACTION S.A.

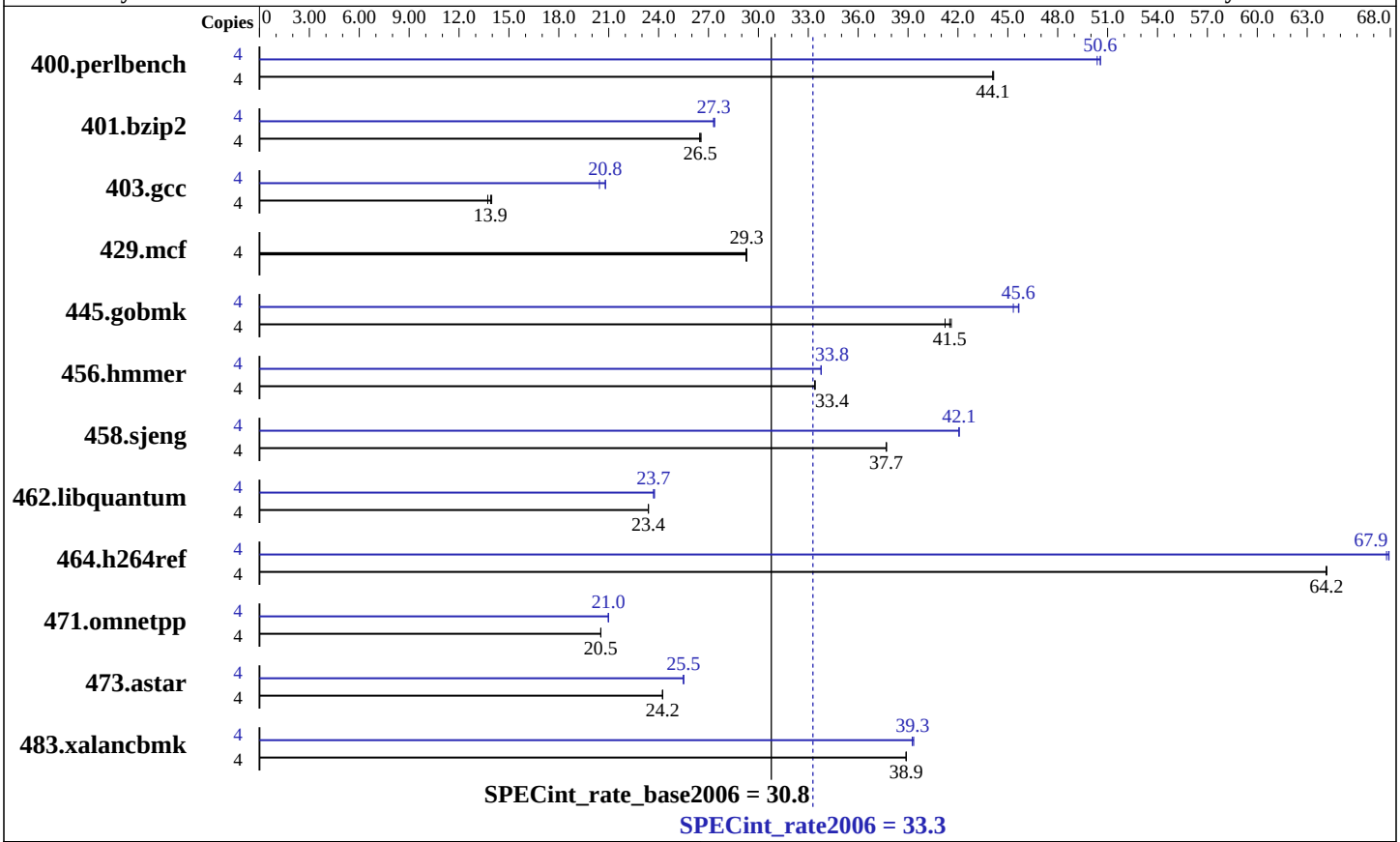
ACTINA SOLAR 202 X2 (Intel Xeon processor E5310, 1.60GHz)

SPECint®_rate2006 = 33.3

SPECint_rate_base2006 = 30.8

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 E5310
CPU Characteristics:	1066 MHz system bus
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 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:	8 GB (8 x 1 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)
Disk Subsystem:	160 GB SATA, 7200rpm
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	4	**886**	**44.1**	886	44.1	885	44.1	4	**773**	**50.6**	773	50.6	776	50.4
401.bzip2	4	**1457**	**26.5**	1458	26.5	1454	26.6	4	1413	27.3	1410	27.4	**1413**	**27.3**
403.gcc	4	2306	14.0	**2317**	**13.9**	2346	13.7	4	1547	20.8	**1549**	**20.8**	1575	20.4
429.mcf	4	1245	29.3	1247	29.3	**1245**	**29.3**	4	1245	29.3	1247	29.3	**1245**	**29.3**
445.gobmk	4	**1011**	**41.5**	1009	41.6	1018	41.2	4	**919**	**45.6**	919	45.7	926	45.3
456.hmmer	4	1117	33.4	1118	33.4	**1117**	**33.4**	4	1105	33.8	1105	33.8	**1105**	**33.8**
458.sjeng	4	**1284**	**37.7**	1284	37.7	1284	37.7	4	1151	42.1	**1151**	**42.1**	1151	42.1
462.libquantum	4	3544	23.4	**3544**	**23.4**	3544	23.4	4	3489	23.8	3497	23.7	**3496**	**23.7**
464.h264ref	4	**1380**	**64.2**	1380	64.1	1379	64.2	4	1303	67.9	1306	67.8	**1304**	**67.9**
471.omnetpp	4	1218	20.5	1218	20.5	**1218**	**20.5**	4	**1191**	**21.0**	1191	21.0	1192	21.0
473.astar	4	**1158**	**24.2**	1159	24.2	1158	24.2	4	1101	25.5	**1101**	**25.5**	1101	25.5
483.xalancbmk	4	710	38.9	710	38.9	**710**	**38.9**	4	702	39.3	703	39.3	**703**	**39.3**

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 other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.1.
Report generated on Tue Jul 22 14:52:32 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 16 October 2007.