SPEC® CINT2006 Result

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ACTION S.A.

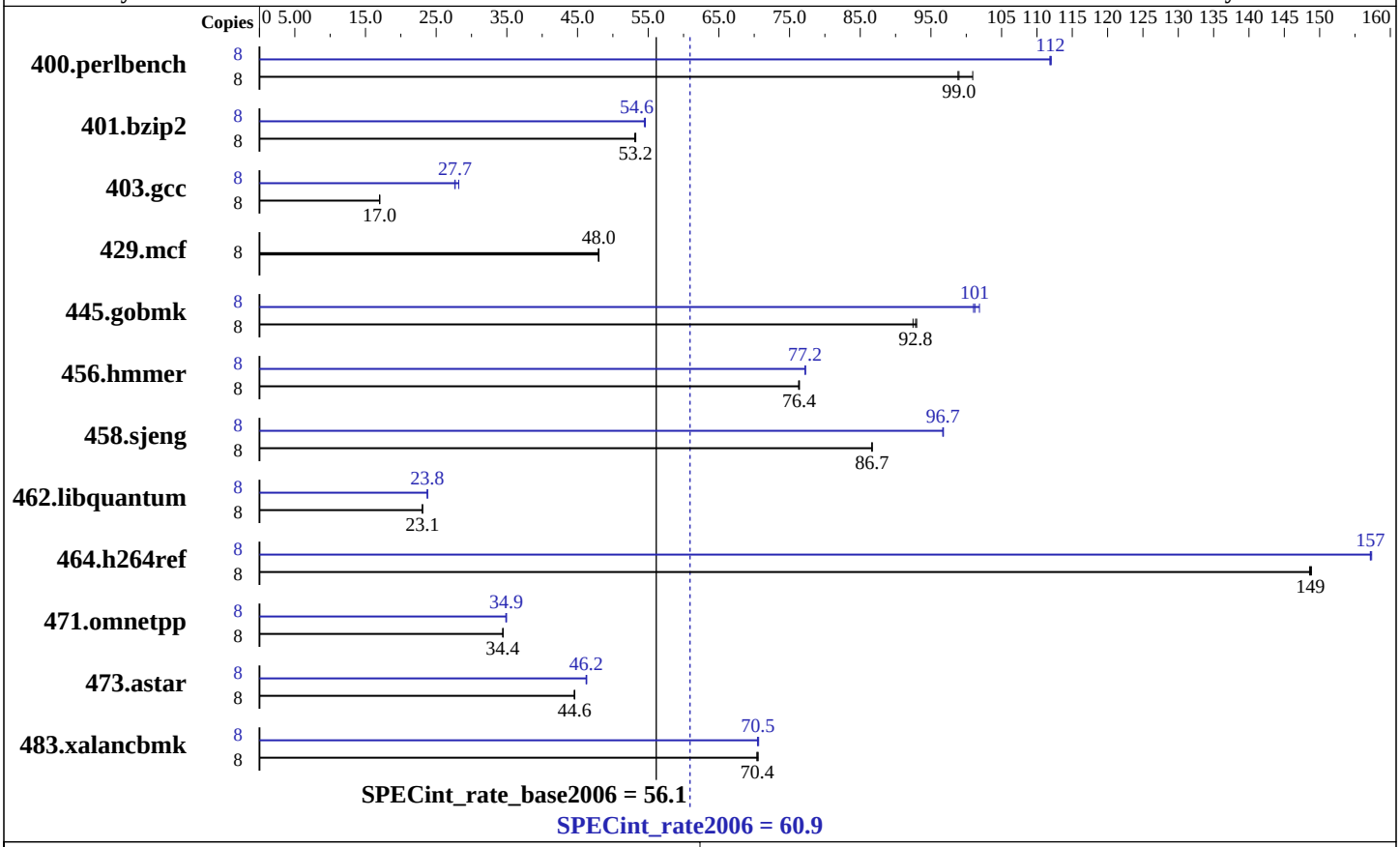
ACTINA SOLAR 672 X2 (Intel Xeon processor E5320, 1.86GHz)

SPECint®_rate2006 = 60.9

SPECint_rate_base2006 = 56.1

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:	8 GB (4 x 2 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)
Disk Subsystem:	ST936701SS 36GB SAS 10Krpm
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	775	101	791	98.8	**790**	**99.0**	8	**698**	**112**	699	112	698	112
401.bzip2	8	1454	53.1	**1451**	**53.2**	1450	53.2	8	1414	54.6	1418	54.5	**1415**	**54.6**
403.gcc	8	3784	17.0	**3786**	**17.0**	3792	17.0	8	2284	28.2	2331	27.6	**2326**	**27.7**
429.mcf	8	**1520**	**48.0**	1521	48.0	1520	48.0	8	**1520**	**48.0**	1521	48.0	1520	48.0
445.gobmk	8	903	93.0	**904**	**92.8**	908	92.5	8	831	101	824	102	**829**	**101**
456.hmmer	8	979	76.3	977	76.4	**977**	**76.4**	8	967	77.2	966	77.3	**967**	**77.2**
458.sjeng	8	1117	86.7	**1117**	**86.7**	1117	86.6	8	1000	96.8	**1001**	**96.7**	1001	96.7
462.libquantum	8	7189	23.1	7190	23.1	**7189**	**23.1**	8	**6976**	**23.8**	6976	23.8	6979	23.8
464.h264ref	8	1189	149	1192	149	**1191**	**149**	8	1126	157	1125	157	**1126**	**157**
471.omnetpp	8	**1452**	**34.4**	1451	34.5	1452	34.4	8	1435	34.9	**1431**	**34.9**	1431	34.9
473.astar	8	**1260**	**44.6**	1261	44.5	1259	44.6	8	**1215**	**46.2**	1213	46.3	1215	46.2
483.xalancbmk	8	784	70.4	782	70.6	**784**	**70.4**	8	**783**	**70.5**	783	70.5	782	70.6

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 14:48:50 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 16 October 2007.