SPEC® CINT2006 Result

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ACTION S.A.

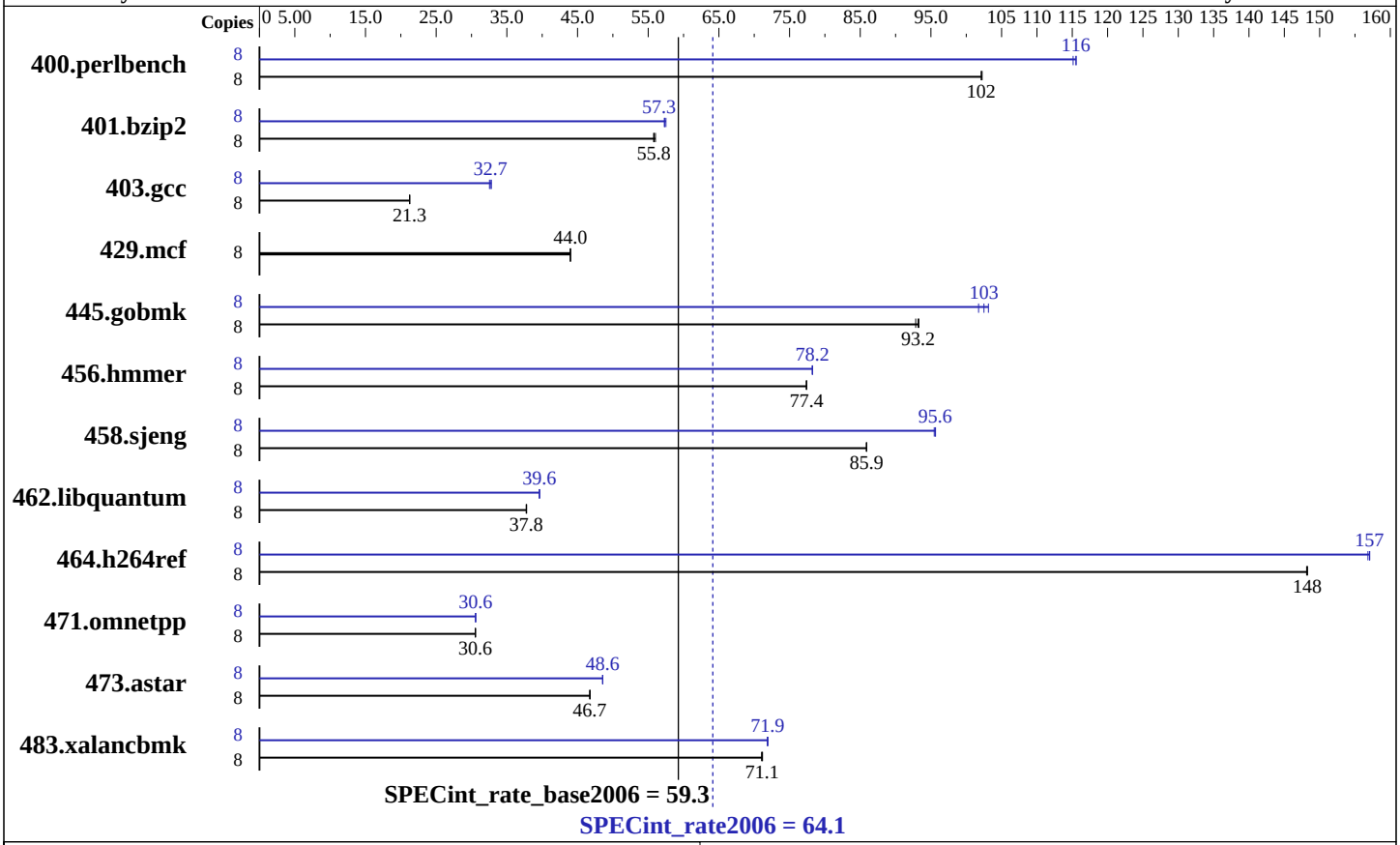
ACTINA SOLAR 222 X2 (Intel Xeon processor E5320, 1.86GHz)

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.hmmer	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
```

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.

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