SPEC® CINT2006 Result

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ACTION S.A.

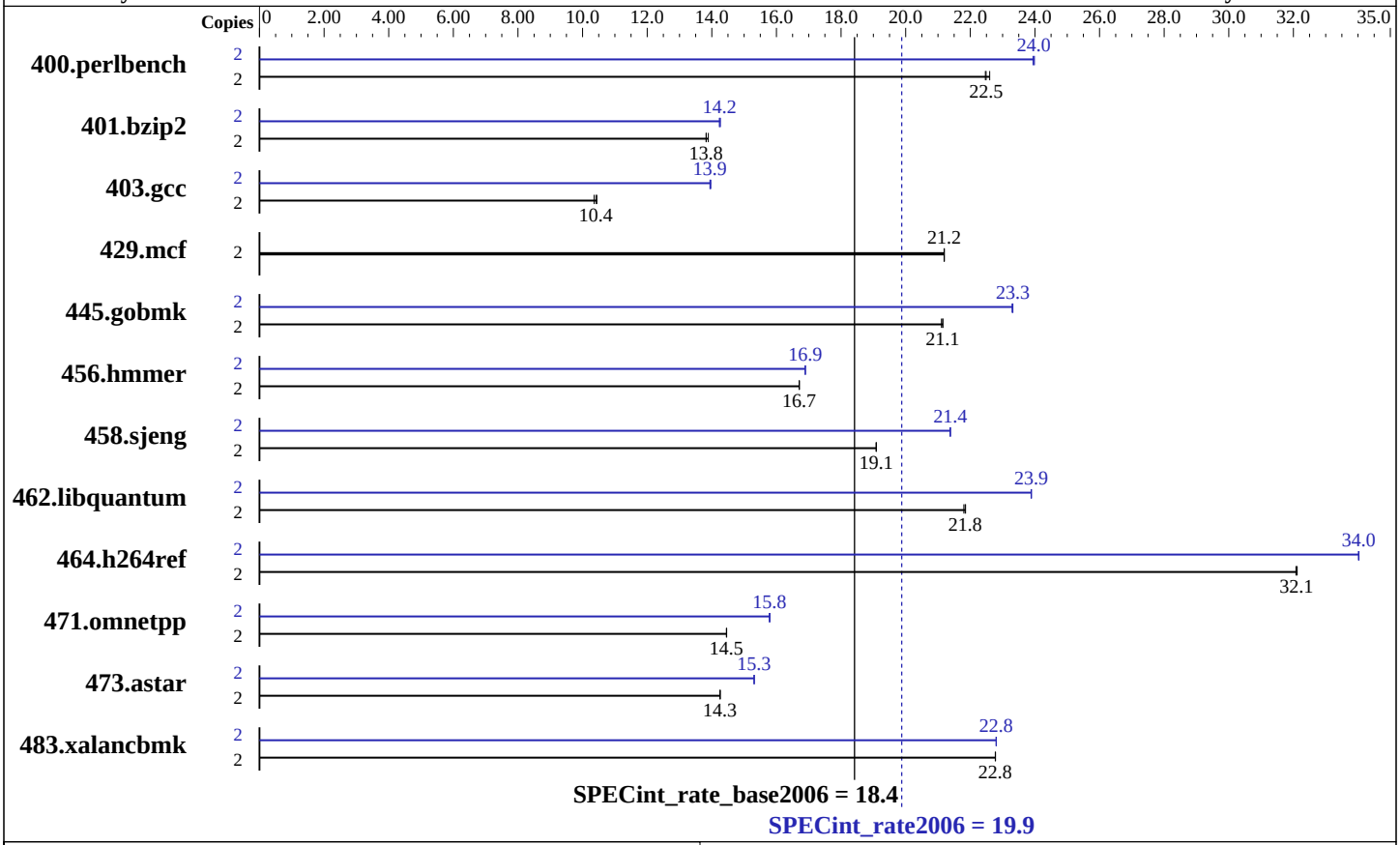
ACTINA SOLAR 202 X2 (Intel Xeon processor 5110, 1.60GHz)

SPECint®_rate2006 = 19.9

SPECint_rate_base2006 = 18.4

CPU2006 license: 3388
Test sponsor: ACTION S.A.
Tested by: ACTION S.A.

Test date: Aug-2007
Hardware Availability: Jun-2007
Software Availability: Jun-2007



Hardware

CPU Name:	Intel Xeon 5110
CPU Characteristics:	1066 MHz system bus
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	4 MB I+D on chip per chip
L3 Cache:	None
Other Cache:	None
Memory:	4 GB (4 x 1 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)
Disk Subsystem:	160 GB SATA, 7200 RPM
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	2	870	22.5	865	22.6	**869**	**22.5**	2	816	23.9	**815**	**24.0**	815	24.0
401.bzip2	2	1389	13.9	**1396**	**13.8**	1396	13.8	2	1353	14.3	1356	14.2	**1355**	**14.2**
403.gcc	2	**1546**	**10.4**	1542	10.4	1555	10.4	2	**1155**	**13.9**	1155	13.9	1152	14.0
429.mcf	2	**861**	**21.2**	861	21.2	860	21.2	2	**861**	**21.2**	861	21.2	860	21.2
445.gobmk	2	992	21.2	**992**	**21.1**	994	21.1	2	**900**	**23.3**	900	23.3	901	23.3
456.hmmer	2	1117	16.7	**1117**	**16.7**	1117	16.7	2	1105	16.9	**1105**	**16.9**	1104	16.9
458.sjeng	2	1268	19.1	1268	19.1	**1268**	**19.1**	2	1132	21.4	1132	21.4	**1132**	**21.4**
462.libquantum	2	1901	21.8	**1897**	**21.8**	1896	21.9	2	1734	23.9	1735	23.9	**1735**	**23.9**
464.h264ref	2	1378	32.1	1380	32.1	**1379**	**32.1**	2	1301	34.0	1301	34.0	**1301**	**34.0**
471.omnetpp	2	864	14.5	**865**	**14.5**	865	14.5	2	**792**	**15.8**	792	15.8	791	15.8
473.astar	2	985	14.3	**985**	**14.3**	985	14.3	2	917	15.3	917	15.3	**917**	**15.3**
483.xalancbmk	2	**606**	**22.8**	606	22.8	606	22.8	2	**605**	**22.8**	605	22.8	605	22.8

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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