SPEC® CINT2006 Result

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ACTION S.A.

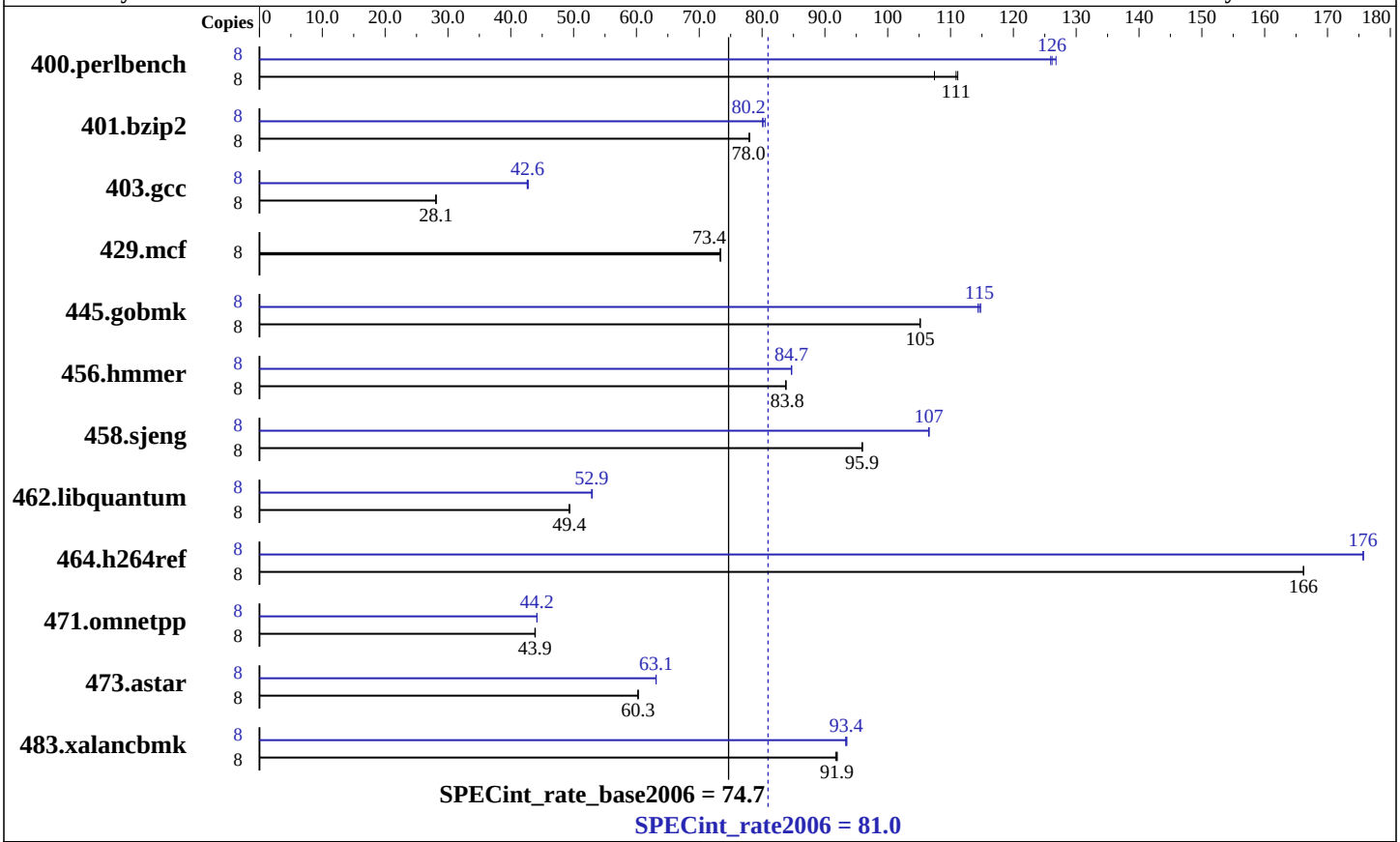
ACTINA SOLAR 222 X2 (Intel Xeon processor E5405, 2.0GHz)

SPECint®_rate2006 = 81.0

SPECint_rate_base2006 = 74.7

CPU2006 license: 9008
Test sponsor: ACTION S.A.
Tested by: ACTION S.A.

Test date: Jan-2008
Hardware Availability: Jan-2008
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.hmmer	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
```

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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