SPEC® CINT2006 Result

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ACTION S.A.

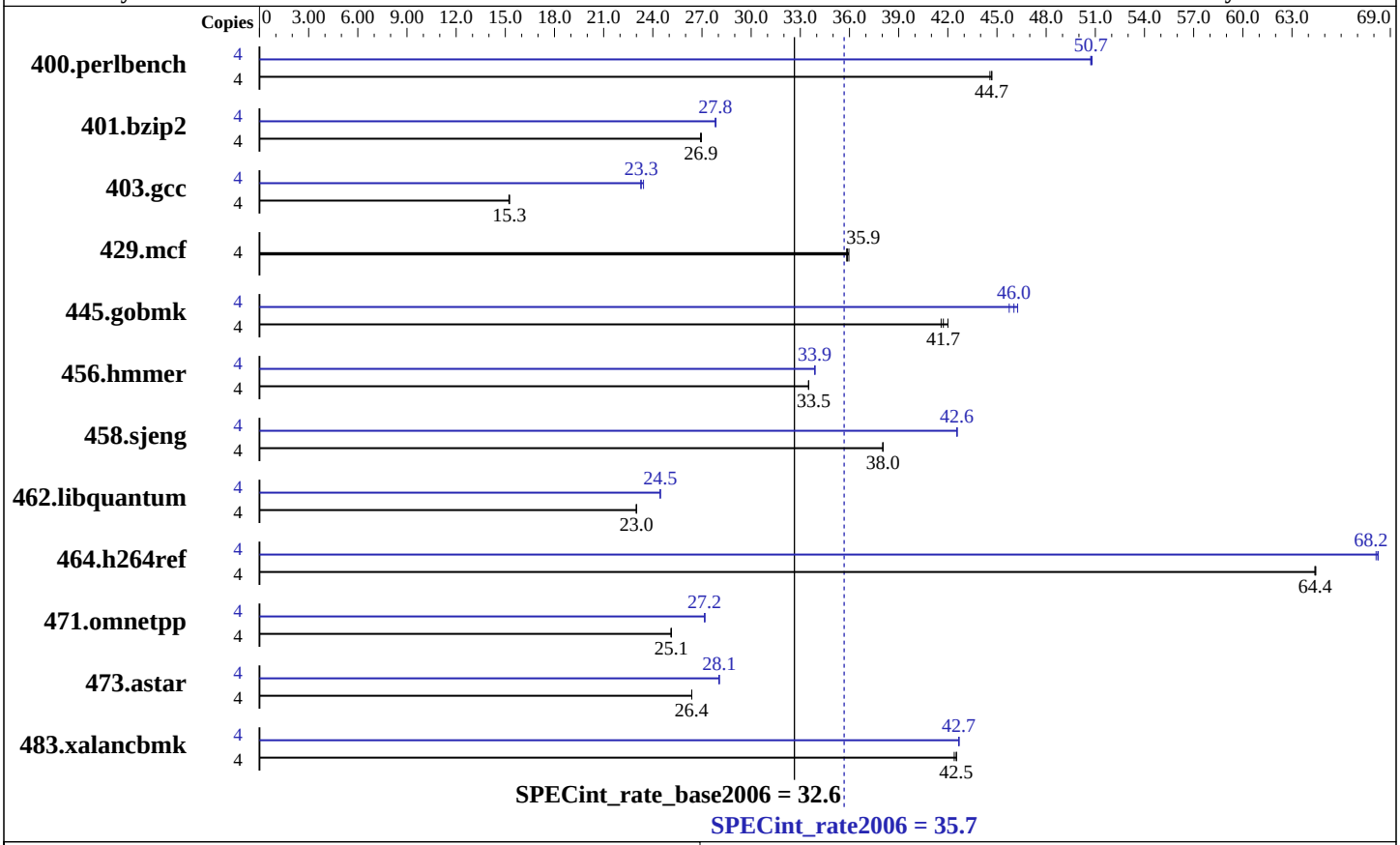
ACTINA SOLAR 672 X2 (Intel Xeon processor 5110, 1.60GHz)

SPECint®_rate2006 = 35.7

SPECint_rate_base2006 = 32.6

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

Test date: Aug-2007
Hardware Availability: Aug-2006
Software Availability: Jun-2007



Hardware

CPU Name:	Intel Xeon 5110
CPU Characteristics:	1066 MHz system bus
CPU MHz:	1600
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 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:	8 GB (4 x 2 GB 667MHz CL5 DDR2 FB-DIMM SDRAM)
Disk Subsystem:	ST936701SS 36GB 10K SAS
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	877	44.6	**875**	**44.7**	875	44.7	4	769	50.8	**770**	**50.7**	770	50.7
401.bzip2	4	**1433**	**26.9**	1432	27.0	1434	26.9	4	**1387**	**27.8**	1386	27.9	1388	27.8
403.gcc	4	2111	15.3	2116	15.2	**2111**	**15.3**	4	1374	23.4	**1382**	**23.3**	1384	23.3
429.mcf	4	**1017**	**35.9**	1014	36.0	1018	35.8	4	**1017**	**35.9**	1014	36.0	1018	35.8
445.gobmk	4	**1006**	**41.7**	999	42.0	1009	41.6	4	907	46.3	**912**	**46.0**	917	45.7
456.hmmer	4	1114	33.5	1114	33.5	**1114**	**33.5**	4	**1101**	**33.9**	1101	33.9	1101	33.9
458.sjeng	4	1273	38.0	1272	38.1	**1272**	**38.0**	4	**1137**	**42.6**	1137	42.6	1137	42.6
462.libquantum	4	3603	23.0	3604	23.0	**3604**	**23.0**	4	3389	24.5	3389	24.5	**3389**	**24.5**
464.h264ref	4	**1374**	**64.4**	1374	64.4	1373	64.5	4	**1297**	**68.2**	1299	68.1	1297	68.3
471.omnetpp	4	**995**	**25.1**	995	25.1	996	25.1	4	921	27.2	**920**	**27.2**	920	27.2
473.astar	4	1065	26.4	1065	26.4	**1065**	**26.4**	4	1001	28.1	1002	28.0	**1001**	**28.1**
483.xalancbmk	4	651	42.4	649	42.5	**649**	**42.5**	4	**647**	**42.7**	647	42.7	647	42.7

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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