



SPEC® CINT2006 Result

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ACTION S.A.

SPECint®_rate2006 = 77.8

ACTINA SOLAR 442 X3 (Intel Xeon E7330, 2.4 GHz)

SPECint_rate_base2006 = 71.5

CPU2006 license: 9008

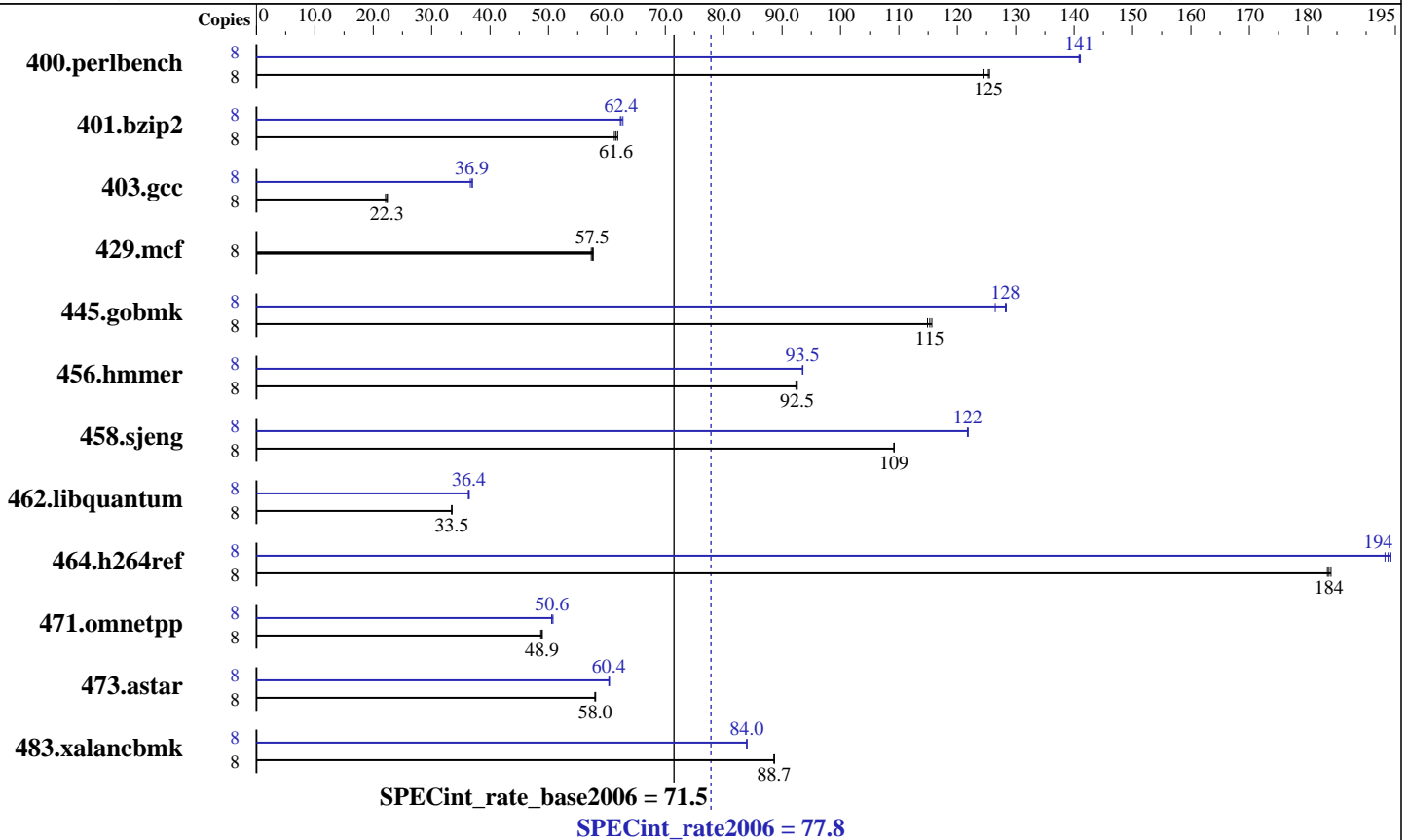
Test date: Feb-2008

Test sponsor: ACTION S.A.

Hardware Availability: Dec-2007

Tested by: ACTION S.A.

Software Availability: Dec-2007



Hardware

CPU Name: Intel Xeon E7330
 CPU Characteristics: Quad Core, 2.40 GHz
 CPU MHz: 2400
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1,2,4 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 6 MB I+D on chip per chip, 3 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: 73 GB SAS 10K
 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	627	125	624	125	623	126	8	555	141	554	141	555	141
401.bzip2	8	1260	61.3	1248	61.8	1254	61.6	8	1236	62.4	1239	62.3	1230	62.7
403.gcc	8	2871	22.4	2886	22.3	2915	22.1	8	1741	37.0	1745	36.9	1759	36.6
429.mcf	8	1265	57.7	1273	57.3	1268	57.5	8	1265	57.7	1273	57.3	1268	57.5
445.gobmk	8	730	115	726	116	728	115	8	654	128	654	128	663	126
456.hammer	8	806	92.6	806	92.5	808	92.4	8	798	93.5	798	93.6	798	93.5
458.sjeng	8	887	109	887	109	887	109	8	794	122	795	122	795	122
462.libquantum	8	4960	33.4	4953	33.5	4954	33.5	8	4570	36.3	4558	36.4	4549	36.4
464.h264ref	8	966	183	964	184	962	184	8	916	193	911	194	914	194
471.omnetpp	8	1027	48.7	1022	48.9	1022	48.9	8	990	50.5	988	50.6	985	50.8
473.astar	8	967	58.1	968	58.0	969	57.9	8	931	60.4	931	60.3	929	60.5
483.xalancbmk	8	623	88.7	623	88.6	622	88.7	8	657	84.0	657	84.0	658	83.9

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

Product description located as of 12/2007:

<http://www.actina.pl>

Binaries were built on Windows XP Professional SP2

Start command was used to bind processes to CPUs

Compiler Invocation

C benchmarks:

`icl -Qvc7.1 -Qc99`

C++ benchmarks:

`icl -Qvc7.1`

Portability Flags

403.gcc: `-DSPEC_CPU_WIN32`

464.h264ref: `-DSPEC_CPU_NO_INTTYPES -DWIN32`



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Base Optimization Flags

C benchmarks:

-fast /F512000000 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:

-fast -Qcxx_features /F512000000 shlw32m.lib
-link /FORCE:MULTIPLE

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

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



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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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