



SPEC® CINT2006 Result

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ACTION S.A.

SPECint®_rate2006 = 102

ACTINA SOLAR 202 X2 (Intel Xeon E5405, 2.0 GHz)

SPECint_rate_base2006 = 93.4

CPU2006 license: 9008

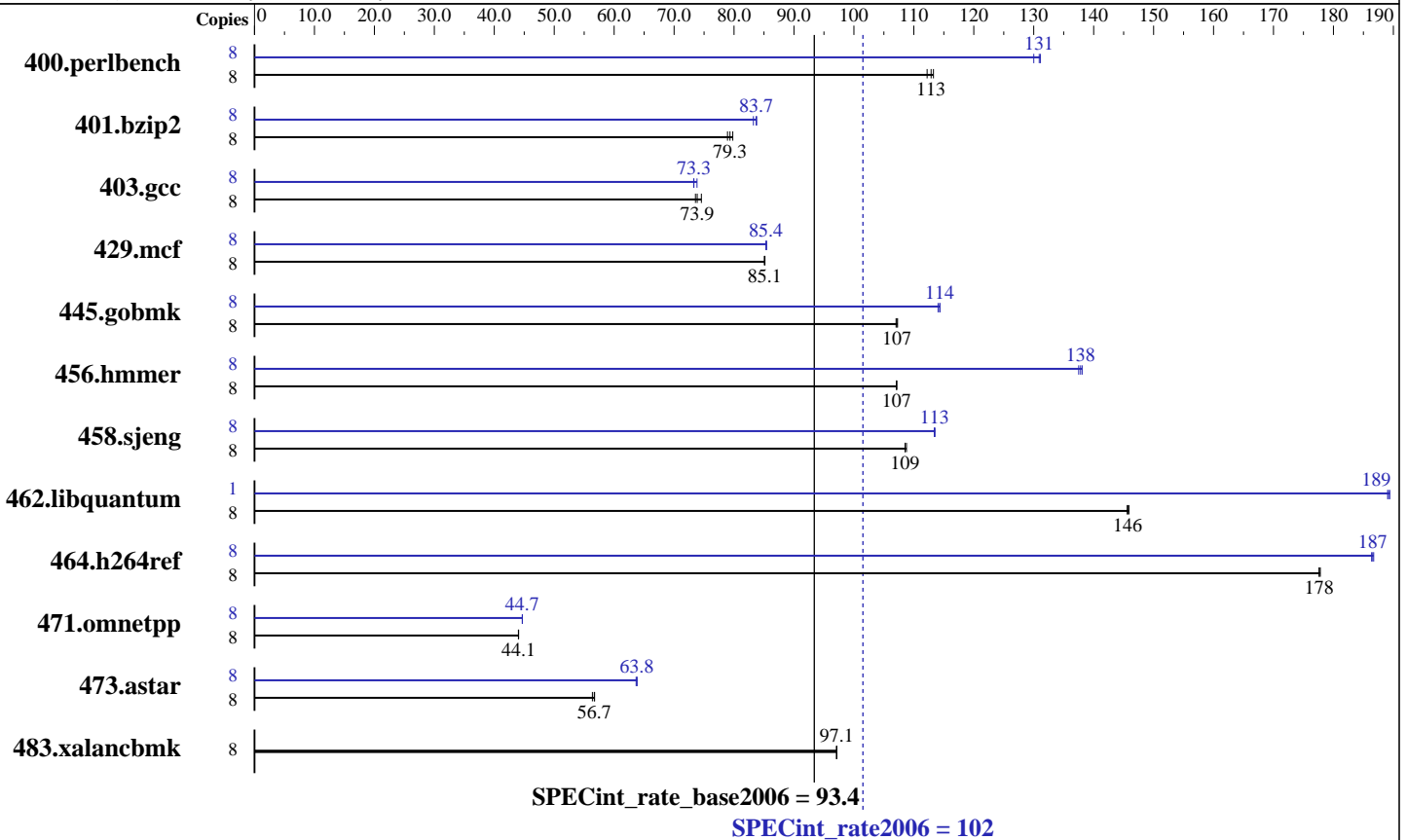
Test date: Oct-2008

Test sponsor: ACTION S.A.

Hardware Availability: Sep-2008

Tested by: Krzysztof Gierczyk

Software Availability: Nov-2008



Hardware

CPU Name: Intel Xeon E5405
 CPU Characteristics: 1333 MHz System 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 (8x2 GB PC2-5300, CL 5-5-5, ECC)
 Disk Subsystem: RAID 10 (6x300 GB SAS, 15000 RPM)
 Other Hardware: None

Software

Operating System: SuSE Linux Enterprise Server 10 (x86_64) with SP2, kernel 2.6.16.60-0.21-smp
 Compiler: Intel C++ Compiler 11.0 for Linux Build 20080730 Package ID: l_cproc_b_11.0.042
 Auto Parallel: Yes
 File System: ReiserFS
 System State: Run level 3 (multi-user)
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Microquill SmartHeap V8.1 Binutils 2.18.50.0.7.20080502



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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	697	112	690	113	<u>692</u>	<u>113</u>	8	596	131	601	130	<u>597</u>	<u>131</u>
401.bzip2	8	967	79.8	<u>973</u>	<u>79.3</u>	978	78.9	8	<u>923</u>	<u>83.7</u>	921	83.8	928	83.2
403.gcc	8	864	74.6	875	73.6	<u>872</u>	<u>73.9</u>	8	879	73.3	872	73.8	<u>878</u>	<u>73.3</u>
429.mcf	8	<u>857</u>	<u>85.1</u>	858	85.1	857	85.2	8	<u>855</u>	<u>85.4</u>	854	85.4	855	85.3
445.gobmk	8	<u>783</u>	<u>107</u>	784	107	782	107	8	734	114	<u>734</u>	<u>114</u>	736	114
456.hammer	8	697	107	697	107	<u>697</u>	<u>107</u>	8	<u>542</u>	<u>138</u>	541	138	543	138
458.sjeng	8	890	109	<u>892</u>	<u>109</u>	892	109	8	<u>853</u>	<u>113</u>	854	113	853	114
462.libquantum	8	1139	146	<u>1138</u>	<u>146</u>	1136	146	1	109	189	110	189	<u>110</u>	<u>189</u>
464.h264ref	8	996	178	<u>997</u>	<u>178</u>	997	178	8	950	186	948	187	<u>949</u>	<u>187</u>
471.omnetpp	8	1135	44.1	1136	44.0	<u>1135</u>	<u>44.1</u>	8	1119	44.7	<u>1119</u>	<u>44.7</u>	1119	44.7
473.astar	8	990	56.7	996	56.4	<u>991</u>	<u>56.7</u>	8	880	63.8	882	63.7	<u>880</u>	<u>63.8</u>
483.xalancbmk	8	<u>568</u>	<u>97.1</u>	568	97.2	568	97.1	8	<u>568</u>	<u>97.1</u>	568	97.2	568	97.1

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

Submit Notes

The config file option 'submit' was used.

Platform Notes

This result is measured on ACTINA SOLAR 202 X2.
Note that the ACTINA SOLAR 202 X2 and ACTINA SOLAR 200 X2 are electrically equivalent.

General Notes

'taskset' was used to bind processes to cores except for 462.libquantum peak
OMP_NUM_THREADS set to number of processors
KMP_AFFINITY set to "physical,0"
KMP_STACKSIZE set to 64M
'ulimit -s unlimited' was used to set the stack size to unlimited prior to run

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc



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Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

-xSSE4.1 -ipo -O3 -no-prec-div -static -inline-calloc
-opt-malloc-options=3 -opt-prefetch

C++ benchmarks:

-xSSE4.1 -ipo -O3 -no-prec-div -opt-prefetch -Wl,-z,muldefs
-L/spec/cpu2006.1.1/lib -lsmartheap

Base Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

Peak Compiler Invocation

C benchmarks (except as noted below):

icc

401.bzip2: /opt/intel/Compiler/11.0/042/bin/intel64/icc
-L/opt/intel/Compiler/11.0/042/ipp/em64t/lib
-I/opt/intel/Compiler/11.0/042/ipp/em64t/include

456.hmmer: /opt/intel/Compiler/11.0/042/bin/intel64/icc
-L/opt/intel/Compiler/11.0/042/ipp/em64t/lib
-I/opt/intel/Compiler/11.0/042/ipp/em64t/include

C++ benchmarks:

icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64

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Peak Portability Flags (Continued)

462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Peak Optimization Flags

C benchmarks:

400.perlbench: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
-no-prec-div -static -ansi-alias -opt-prefetch

401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
-no-prec-div -static -opt-prefetch -ansi-alias

403.gcc: -xSSE4.1 -ipo -O3 -no-prec-div -static -inline-calloc
-opt-malloc-options=3

429.mcf: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
-no-prec-div -static -opt-prefetch

445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -O2 -ipo
-no-prec-div -ansi-alias

456.hmmer: -xSSE4.1 -ipo -O3 -no-prec-div -static -unroll2
-ansi-alias

458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
-no-prec-div -static -unroll4

462.libquantum: -xSSE4.1 -ipo -O3 -no-prec-div -static
-opt-malloc-options=3 -parallel -par-runtime-control
-opt-prefetch

464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
-no-prec-div -static -unroll2 -ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
-no-prec-div -ansi-alias -opt-ra-region-strategy=block
-Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap

473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine
-Wl,-z,muldefs -L/spec/cpu2006.1.1/lib -lsmartheap

483.xalancbmk: basepeak = yes



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Peak Other Flags

C benchmarks:

403.gcc: -Dalloca=_alloca

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090713.01.html>
<http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090713.00.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-int-linux64-revA.20090713.01.xml>
<http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090713.00.xml>

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For other inquiries, please contact webmaster@spec.org.

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