



SPEC[®] CINT2006 Result

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Itaotec

SPECint[®]_rate2006 = 74.1

Servidor Itaotec MX201 (Intel Xeon X5450)

SPECint_rate_base2006 = 62.0

CPU2006 license: 9001

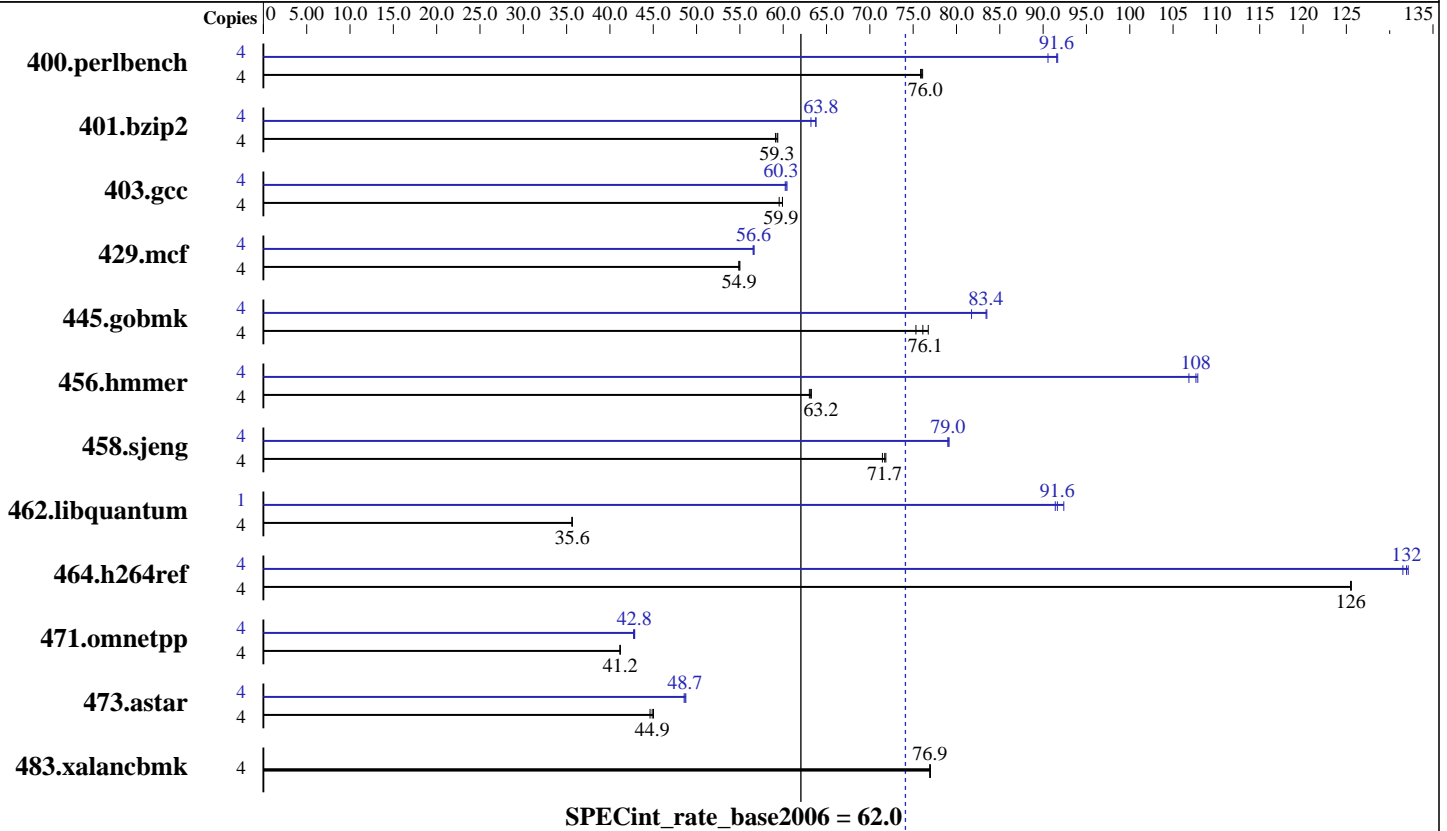
Test sponsor: Itaotec

Tested by: Itaotec

Test date: May-2008

Hardware Availability: Dec-2007

Software Availability: Jan-2008



Hardware

CPU Name: Intel Xeon X5450
 CPU Characteristics:
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 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 * 2 GB PC2-5300 FBDIMM, CL-5-5-5, ECC)
 Disk Subsystem: 1 x SCSI, 73GB, 15000 RPM
 Other Hardware: None

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
 Compiler: Intel C++ Compiler for Linux version 10.1 Build 20080112 Package ID: l_cc_p_10.1.012
 Auto Parallel: Yes
 File System: ReiserFS
 System State: Run Level 3 (multi-user)
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: Binutils 2.17.10.50
 MicroQuill SmartHeap V8.1



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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	514	76.1	<u>514</u>	<u>76.0</u>	515	75.9	4	426	91.7	<u>427</u>	<u>91.6</u>	432	90.6
401.bzip2	4	653	59.1	650	59.4	<u>651</u>	<u>59.3</u>	4	<u>605</u>	<u>63.8</u>	605	63.8	611	63.2
403.gcc	4	541	59.5	537	59.9	<u>537</u>	<u>59.9</u>	4	533	60.4	<u>534</u>	<u>60.3</u>	535	60.2
429.mcf	4	<u>664</u>	<u>54.9</u>	665	54.9	663	55.0	4	645	56.5	<u>645</u>	<u>56.6</u>	644	56.6
445.gobmk	4	<u>551</u>	<u>76.1</u>	557	75.3	547	76.7	4	502	83.5	<u>503</u>	<u>83.4</u>	513	81.7
456.hammer	4	590	63.3	592	63.0	<u>591</u>	<u>63.2</u>	4	349	107	346	108	<u>347</u>	<u>108</u>
458.sjeng	4	674	71.8	<u>675</u>	<u>71.7</u>	677	71.4	4	612	79.1	<u>612</u>	<u>79.0</u>	613	79.0
462.libquantum	4	<u>2325</u>	<u>35.6</u>	2327	35.6	2325	35.6	1	227	91.4	224	92.4	<u>226</u>	<u>91.6</u>
464.h264ref	4	705	125	<u>705</u>	<u>126</u>	705	126	4	<u>671</u>	<u>132</u>	673	132	670	132
471.omnetpp	4	607	41.2	607	41.2	<u>607</u>	<u>41.2</u>	4	585	42.7	<u>584</u>	<u>42.8</u>	583	42.9
473.astar	4	<u>626</u>	<u>44.9</u>	629	44.6	624	45.0	4	<u>577</u>	<u>48.7</u>	578	48.6	576	48.8
483.xalancbmk	4	358	77.0	<u>359</u>	<u>76.9</u>	359	76.9	4	358	77.0	<u>359</u>	<u>76.9</u>	359	76.9

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

Compiler Invocation Notes

OMP_NUM_THREADS set to number of cores
KMP_STACK_SIZE set to 64M
KMP_AFFINITY set to physical,0

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run.
'/usr/bin/taskset' used to bind benchmark copies to processors, except for 462.libquantum at peak.

Platform Notes

BIOS configuration:
Hardware Prefetch Enabled

General Notes

This result was measured on the Servidor Itaotec MX201.
The Servidor Itaotec MX201 and the Servidor Itaotec MX221 are electronically equivalent.

Base Compiler Invocation

C benchmarks:
icc

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Base Compiler Invocation (Continued)

C++ benchmarks:
icpc

Base Portability Flags

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

Base Optimization Flags

C benchmarks:
-fast -inline-calloc -opt-malloc-options=3

C++ benchmarks:
-xT -ipo -O3 -no-prec-div -Wl,-z,muldefs
-L/opt/sh/SmartHeap_8.1/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/cce/10.1.012/bin/icc
-L/opt/intel/cce/10.1.012/lib
-I/opt/intel/cce/10.1.012/include

456.hmmer: /opt/intel/cce/10.1.012/bin/icc
-L/opt/intel/cce/10.1.012/lib
-I/opt/intel/cce/10.1.012/include

C++ benchmarks:
icpc



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Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_IA32
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
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) -fast -ansi-alias
-prefetch
401.bzip2: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
403.gcc: -fast -inline-calloc -opt-malloc-options=3
429.mcf: -fast -prefetch
445.gobmk: -prof-gen(pass 1) -prof-use(pass 2) -xT -O2 -ipo
-no-prec-div -ansi-alias
456.hmmer: -fast -unroll2 -ansi-alias -opt-multi-version-aggressive
458.sjeng: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4
462.libquantum: -fast -unroll4 -Ob0 -prefetch
-opt-streaming-stores always -vec-guard-write
-opt-malloc-options=3 -parallel -par-runtime-control
464.h264ref: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias

C++ benchmarks:

471.omnetpp: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=block
-Wl,-z,muldefs -L/opt/sh/SmartHeap_8.1/lib -lsmarheap
473.astar: -prof-gen(pass 1) -prof-use(pass 2) -xT -O3 -ipo
-no-prec-div -ansi-alias -opt-ra-region-strategy=routine
-Wl,-z,muldefs -L/opt/sh/SmartHeap_8.1/lib -lsmarheap
483.xalancbmk: basepeak = yes



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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/Itautec-ic10.1-INT-intel64-linux-flags.20090714.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Itautec-ic10.1-INT-intel64-linux-flags.20090714.xml>

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

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